THESIS

DOWNSTREAM TRANSPORT OF RADIOCESIUM IN FUKUSHIMA RIVERBANKS: USING RELIEF RATIO AS A PREDICTOR ALONG PACIFIC-CONNECTED RIVERS

Submitted by

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ABSTRACT

DOWNSTREAM TRANSPORT OF RADIOCESIUM IN FUKUSHIMA RIVERBANKS: USING RELIEF RATIO AS A PREDICTOR ALONG PACIFIC-CONNECTED RIVERS

Radioactive materials, notably radiocesium, were released into the environment following the Fukushima Daiichi Nuclear Power Plant accident in 2011. This study investigates the distribution and downstream movement of radiocesium in riverbank soils of Fukushima Prefecture, with a particular focus on the effects of relief ratio and watershed area on erosion and redeposition processes driven by tidal fluctuations. Air dose rates were systematically monitored by the Japanese Ministry of Environment at 97 sites. The research tested the predictive value of relief ratio and watershed areas for changes in air dose rates before and after water level events. However, statistical analysis revealed no significant correlation between these variables and observed fluctuations in air dose rate, either holistically or at the individual watershed scale. While individual site analysis held higher correlations, results were not statistically significant. Additionally, a comparison of observed and physical decay rates from 2015 to 2024 indicated persistent differences four years after the accident. Overall, the findings suggest that neither relief ratio nor watershed area reliably predict radiocesium behavior in the studied riverbanks.

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I: INTRODUCTION

Fukushima Daiichi Nuclear Power Plant Accident

On March 11, 2011, a 9.0 magnitude earthquake occurred off the eastern coastline of Japan. This seismic event precipitated a 15-meter tsunami, which impacted the Tohoku region of Japan. The tsunami's magnitude exceeded the capacity of the engineered sea wall barriers designed to safeguard the Fukushima Daiichi Nuclear Power Plant against coastal hazards. As a result, the Fukushima Daiichi Nuclear Power Plant site was inundated with seawater. The release of radioactive material was primarily caused by a cascading failure of cooling systems after the earthquake and tsunami disabled power at the plant. Although the reactors initially shut down safely, the loss of both primary and backup electricity prevented coolant from circulating, allowing decay heat to build up inside reactors 1-3. As the cladding temperature increased and reached 1400 K, Zircaloy began oxidizing in the presence of steam, starting the production of hydrogen (Yanez et al 2015). As pressure increased, operators vented gases to prevent containment failure, releasing highly volatile radioactive isotopes such as iodine-131 (^{131}I), cesium-134 (^{134}Cs), and cesium-137 (^{137}Cs) into the atmosphere (World Nuclear Association 2024). Additional releases of volatile radioactive isotopes occurred when hydrogen explosions damaged reactor buildings, further breaching containment. Contaminated water used in emergency cooling efforts also leaked into the ocean, spreading radioactive material into the marine and terrestrial environment (World Nuclear Association 2024).

The dispersal of these radionuclides continues to represent a considerable challenge for the ecosystems in Fukushima prefecture. Notably, radionuclides such as ^{134}Cs and ^{137}Cs are principal agents of the persistent contamination that endures currently and is expected to prevail for many years (National Nuclear Data Center 2024). As a result, sustained research in the domain of radioecology and ongoing decontamination initiatives within Fukushima remain indispensable for the foreseeable future. Predictive and retrospective studies can allow for informed decisions for decontamination efforts and potential ecosystem behavioral uncertainties that have not been understood.

Test Sites & Need for Further Data Analysis

The Japanese Ministry of Environment periodically updates various radiation locations in Fukushima Prefecture. While early papers such as Chartin et al (2013) looked at the movement of the radiocesium to the ocean (using a different dataset), general trends for radiocesium movement in the environment were only superficially analyzed. Radiocesium movement patterns must be analyzed in detail to discover the underlying basics for transport, and to accurately predict radioactive contamination movement in Japan's environment. Research on relief ratio and area prediction modelling is novel in nature and has no known previously published information at the time of this thesis.

Previous air dose rate investigations for Fukushima Prefecture have not used the Ministry of Environment dataset for riverbank air dose rates, and limited predictors have

been indexed into for riverbank radiocesium movement. One study used air dose rates to look at decontamination of riverbanks but found that vertical depth from continued erosion and redeposition made traditional methods ineffective (Nishikiori et al. 2017). Another study aimed to find the environmental sources of ^{137}Cs, with categories such as paddy field, farmland, and urban areas accounting for 85% of the discharge (Taniguchi et al. 2019) (Taniguchi et al. 2020). Indirectly, a study looked at what particle types (loose or bound) were being dissolved from the riverbanks, with primarily clay-bound particles found in samples (Sakaguchi 2014) (Tatsuno et al. 2022). Research such as Edvard et al. 2021, has also generally proven an 85% decrease in air dose rates for coastal rivers, with the radiocesium moving within the rivers decreasing by 90%.

II: Background

Radiocesium Dispersion

Fission products such as ^{137}Cs are typically well-contained within the fuel of light-water reactors. However, during the Fukushima-Daiichi Nuclear Power Plant incident, radioactive materials breached this containment resulting in a substantial release of ^{137}Cs into the surrounding atmosphere, with estimates ranging from 10 to 36 petabecquerel (PBq, which is 10^{15} Bq) dispersed across the greater Fukushima region (Onda et al., 2020). Out of the estimated 10 to 36 PBq of ^{137}Cs released, studies suggest approximately 2.7 PBq was deposited onto the terrestrial environment of Fukushima, all of which was considered for this research (Onda et al, 2020). Given rainfall and other erosion events that could cause mobilization of radiocesium, radiation dose rates near riverbanks could continually see varying levels of radiocesium, and thus, varying radiation doses. The dose rates vary in ways similar to erosion, resulting in radiocesium particles being swept into the rivers, which then can redeposit radiocesium downstream or continue into the ocean (Cartin et al 2013) (Onda et al 2019). This research hypothesizes that changes in air dose rate after high water events can be predicted using standard values such as relief ratio and watershed area.

Radioactive Cesium (Radiocesium) Physical Information

The 55th element of the periodic table, cesium, has various stable and radioactive forms. The most abundant stable form, ^{133}Cs, has a nucleus comprised of 55 protons

and 78 neutrons. The most abundant reactor-produced radiocesiums are ^{137}Cs and ^{134}Cs, which both decay via beta minus (β-). β- decay occurs when a radioactive isotope converts a neutron to a proton and electron along with an antineutrino. In both ^{137}Cs and ^{134}Cs, a subsequent excited form of barium is created from a beta decay and has excess energy (known as a metastable state), which forms ^{134m}Ba and ^{137m}Ba. ^{134m}Ba and ^{137m}Ba have a gamma decay, which is the de-excitation in the form of a photon.

Table 1: General information on radiocesium and subsequent radioactive decays based on IAEA n.d. data. Note that ^{134}Ba and ^{137}Ba are stable and end the radioactive decay chain.

Isotope	Half Life	Fission Yield	Decay Type	Decay Product
^{134}Cs	2 years	7.65E-04%	Beta	^{134m}Ba
^{137}Cs	30 years	6.22%	Beta	^{137m}Ba
^{134m}Ba	$<10^{-9}$ sec	-	Gamma	^{134}Ba
^{137m}Ba	2.55 min	-	Gamma	^{137}Ba

Long term, ^{137}Cs is the isotope of concern due to its long half-life, as well as cesium being a chemical analog for potassium. ^{137}Cs in the environment is a major contributor to radiation dose to humans and the environment in the difficult to return zone. Cesium can be taken up through inhalation and/or ingestion, but most health effects are attributable to ingestion (Agency for Toxic Substances and Disease Registry. 2004). Through ingestion, bioaccumulation of Cs^+ ions occurs in the body due to the similar chemical properties to K^+, but Cs^+ is more reactive, causing K^+ to not be able to accumulate and serve its purpose in both plants and animals (Agency for Toxic Substances and Disease Registry. 2004). A potential increased cancer risk is expected from ^{137}Cs depending on exposure type and length (Agency for Toxic Substances and Disease Registry. 2004).

Radiocesium Sediment Movement

Radiocesium's migration within soil is primarily governed by its chemical traits and interactions with soil constituents. Cesium, an alkali metal, forms +1 ions due to its electron configuration, which enables it to readily attach to negatively charged spots in the soil matrix (NCRP 2006). In regions such as Fukushima, soils are predominantly andosols, which is a type characterized by volcanic origins, rich organic matter, slight acidity, and notable fertility (IUSS 2022). These soils possess a high cation exchange capacity, granting them the ability to efficiently retain cesium ions.

As organic material breaks down, radiocesium tends to bind with clay particles in the soil, and adheres firmly to frayed edge sites, effectively becoming immobile within mineral-rich layers (Whicker et al. 1982) (NCRP 2006) (Manaka et al. 2019) (Park et al. 2019). Ten days after the accident, an apparent adsorption equilibrium was attained between clay and radiocesium, with unbound soluble radiocesium available for movement in the environment (Iwata et al. 2012). The vertical migration occurring under riverbank conditions is primarily driven by bound radiocesium with minimal unbound material moving vertically (Tatsuno et al. 2022). Many of the riverbanks are more susceptible to vertical migration of radiocesium, as this movement hardly occurs without erosion and deposition of the soil as a physical driver (Somboon et al. 2018).

Radiocesium Water Movement

The radiocesium released during the accident in Fukushima was present in two forms: soluble cesium (typically as Cs^+, which spreads easily in water) and particle-

bound cesium, also known as cesium-rich microparticles (CsMPs), which are tiny solid particles that are less soluble than the dissolved form. (Ikehara et al. 2018). The primary source of mobilization for particulate-bound radiocesium is caused by soil erosion, which physically detaches and transports particles from the land surface. In addition to erosion, rainfall and runoff play a significant role, as these water movements help carry fine particles containing radiocesium into rivers (Taniguchi et al. 2019). Notably, using discharge data, researchers found that 96.5% of radiocesium sampled from Fukushima rivers was particulate bound (Taniguchi et al. 2019), highlighting the dominance of this transport mechanism. This movement in the CsMPs can cause localized hotspots of radiation, with non-uniform redeposition occurring downstream (Ikehara et al 2018).

While compounds such as cesium nitrate, cesium oxide, or Cs^+ ions are all highly soluble in water, it is important to note that most of these soluble forms have already been swept away by initial runoff events. Consequently, less soluble CsMPs remain in the environment and are gradually eroded away over time (Agency for Toxic Substances and Disease Registry. 2004) (Chartin et al. 2013) (Onda et al. 2019). The persistence of these particles underscores the ongoing risk of radiocesium movement, even after the most mobile forms have largely dissipated. Forest soil serves as the main source of radiocesium particles migrating toward rivers and riverbanks. Storms and periods of high-water flow further amplify this process by increasing the resuspension and erosion of contaminated soil, thereby introducing more radiocesium-laden material into aquatic systems (Arai et al. 2021).

Air Dose Rate

Data was collected for this study using a Sodium Iodide (NaI(Tl)) detector to record an air dose rate in μSv/h (effective dose). NaI detectors require calibration for each radionuclide to accurately determine the effective dose, as there is variation between the dose observed and the true dose that should be observed. Calibration bridges the gap between the true dose from characterized (known radiation output) source and what is being detected by the NaI used for an eventual survey to align properly in a value known as the calibration factor. The calibration factor can be set internally in the detector or applied separately after taking surveys.

The effective dose is considered based on the guidelines provided by the International Commission on Radiological Protection (ICRP) and the International Commission on Radiation Units and Measurements (ICRU). ICRP publications such as ICRP 60 and ICRP 103 outline radiation quantities that help define the biological risk from ionizing radiation (International Commission on Radiological Protection 2007). The quantities are physical, protection, and operational.

Physical quantities are measurable energy transfers due to radiation, including kinetic energy released in matter (KERMA) and absorbed dose. KERMA measures the total energy produced from a radioactive source per kilogram of material, and its unit is joule per kilogram (J/kg), also called gray (Gy). Absorbed dose is the energy (in joules) deposited per kilogram of tissue, which is again Gy but in a different context.

Protection quantities are dose quantities used in radiological safety to quantify human exposure to ionizing radiation, whether from external sources or radionuclide intake. Values of protection quantities include organ absorbed dose, equivalent dose,

and effective dose. Effective dose is calculated from organ absorbed dose and multiplying by a radiation weighting factor and then a tissue weighting factor.

Operational quantities help monitor and investigate external exposure by guiding dose measurements in the body. Internal dosimetry lacks direct operational quantities for equivalent or effective doses, so alternative methods are used, primarily activity (number of radioactive decays per unit time, measured in Becquerel (Bq)) measurements and biokinetic models, to assess doses from radionuclides. Ambient dose equivalent, H*(10), is used for area monitoring, and is the basis for conversion for the effective dose for whole body dose rates. The ICRU defines operational quantity models as a 30 cm diameter sphere, 1 g/cm³ in density, made of tissue-equivalent material containing 76% oxygen, 11.1% carbon, 10.1% hydrogen, and 2.6% nitrogen. The field instrument is calibrated based on a 10 mm depth into the sphere and allows for readouts in dose equivalent (Johnson T.E. 2025) (ICRP, 2007).

III: METHODOLOGY

All collection was completed by Japan's Ministry of Environment. (n.d.), with the collections methods below being a restatement of the information provided on their process for air dose rate samples.

Air Dose Rate Data

The soil collection occurred in a central location that was selected and continued in a x pattern around that central point. Typically, at one of the sampling points (usually the central one) where soil was collected, a survey meter such as a NaI(Tl) scintillation unit was used to measure spatial air dose-rate. The survey detectors used were Hitachi-Aloka Medical, Ltd. TCS-171, TCS-172, TCS-172B and/or a survey meter Hitachi-Aloka Medical, Ltd. TGS-121 at each site. The detector was kept horizontal while recording the dose-rate at approximately 1 meter above the ground. For measurements below 0.1 μSv/h, the time constant was set to 30 seconds (the meter was held in place for 30 seconds); for readings of 0.1 μSv/h or higher, it was set to 10 seconds. After holding the detector steady during the time constant, five separate readings were taken, each spaced apart by an interval matching the time constant. The average of these readings was then multiplied by the calibration constant to calculate the spatial dose-rate.

If air dose rate could not be collected from a location, a nearby site, close to where water and mud samples were gathered, was chosen arbitrarily for spatial dose-rate measurement. The selected site had to meet specific requirements:

- It should be a flat, open area without significant obstacles nearby.

- The area should have minimal vegetation.
- Whenever possible, the site should be on soil rather than on asphalt or concrete.
- Additionally, spatial dose-rate was not measured if snow covered the soil, preventing exposure.

Site Considerations

Data from points 1-97 were analyzed to determine relationships between watershed relief ratio and water level event erosion/deposition and/or watershed area and water level event erosion/deposition. Points 1-97 are riverbank sampling points that are directly connected to the ocean. A list of all rivers and sampling point locations can be found in *Appendix A*. *Figure 1* shows the geographic location of the sampling points in relation to Japan, while *Figure 2* shows a river detail map.



Figure 1: Map showing where sites and Fukushima are located with respect to all of Japan.

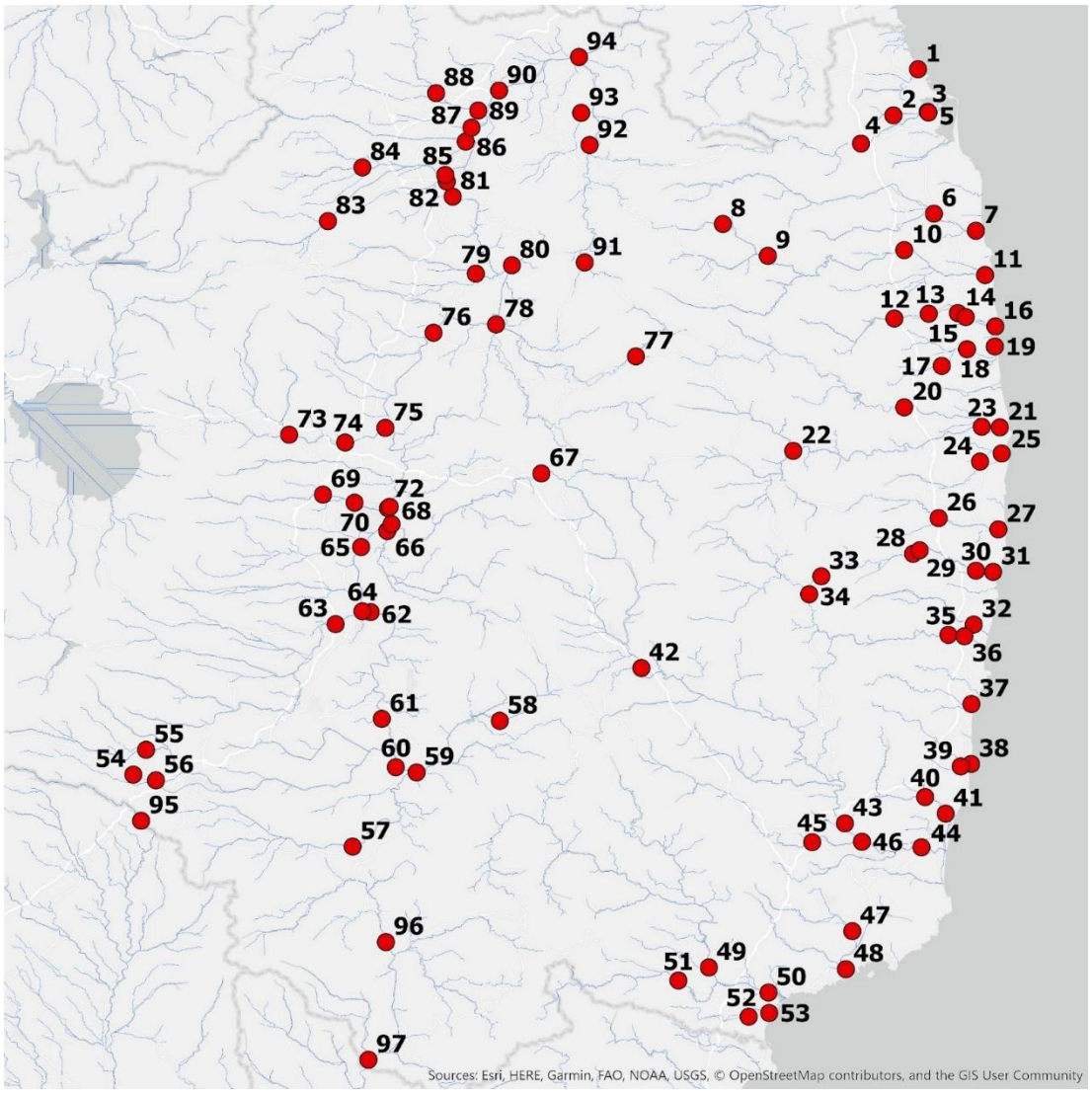


Figure 2: Map of all Fukushima Prefecture sites and rivers used in the experiment.

Initial Data Preparation

Datasets from the years 2012-2024 containing all river collection data first had to be located properly and then translated using DeepL (Ministry of Environment n.d.). The import from the Government of Japan's Ministry of the Environment's data had multiple translation errors resulting in detailed revisions of the data due to a lack of a translated version at the time of this analysis. If similar research is performed in the future, then

the English Excel workbooks have now been updated to include 2011-2023 data, which was not available at the time of this research (Ministry of Environment n.d.).

The datasets were carefully examined for differences in reporting methodology. The first dataset (2012) was unique in formatting, while the datasets until 2018 were uniform with each other. In 2012, the dataset included iodine-131 for the radiation indexing of soil content as well as factored into air dose rate conversions from count rates. In 2018, the dataset added uncertainty for the activity concentration (in Bq/kg) found in the soil samples. After creating uniform excel files for each year (2012-2024) with unmerged cells and filling in necessary information, the data was imported into one excel file for points 1 through 97 (Appendix I). The data was then separated by plot number manually. This was done so that each site could easily have a graph created in each worksheet and for organization of the data.

A baseline chart was initially created for both concentration (Bq/kg) and air dose rate (μSv/h) for the left and right bank over time in each location. The data required updating the location data, since between 2012 and 2013, plot numbers shifted and some new plots were added without explanation. The 2013 and beyond map was updated with the 2012 plot numbers to maintain uniformity and consistency of data. Location data updates were completed by using ArcGIS and plotting the 2012 location data provided in each of the quarterly excel sheets (due to some location data being missing in each sheet the locations were spliced together so that data was available for each). By comparing the map numbers, the number equivalents were found and updated manually on the 2012 dataset. The data was then reimported manually.

The updated database was analyzed with the soil radiation concentration over time compared to the air dose rate. Final analysis showed no anomalies in the data using an R correlation test between Bq/kg of riverbanks and air dose rate.

```
> cor.test(
+   DataAnalysis$`Total Average`,
+   DataAnalysis$`Average Air Dose`,
+   use = "complete.obs",
+   method = "pearson"
+ )

        Pearson's product-moment correlation

data:  DataAnalysis$`Total Average` and DataAnalysis$`Average Air Dose`
t = 81.022, df = 7784, p-value < 2.2e-16
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 0.6641582 0.6882643
sample estimates:
      cor
0.6763923
```

Figure 3. Overview of R correlation between Bq/kg and air dose rate in site from sampling.

Air Dose Rate Ratio Analysis

Air dose rate analysis with values from after the accident was performed to establish a baseline of days since the incident. Adjustments for days since the accident allow for decay correcting ^{134}Cs and ^{137}Cs. Equation 1 was used to calculate the physical decay of both isotopes, which assumes the only removal of radionuclides is via physical decay. Physical decay is the baseline change expected in dose rates if no environmental factors are involved.

$$A_f = A_o e^{-\lambda t}$$

(Equation 1)

- A_f = Activity of radioactive source
- A_0 = Initial activity of radioactive source
- Λ = Decay constant of radioactive source (per day, per year, etc).
- t = Time

In practice, however, the decays were taken in a general form without a set activity seen in Equation 2.

$$Decay\ Factor = e^{-\lambda t}$$

(Equation 2)

The decay factors for both ^{134}Cs and ^{137}Cs were then considered when finding the total gamma contribution in Equation 3.

$$Total\ Gamma\ Contribution = \frac{134Cs\ Decay\ Factor\ \times\ 0.698\ +\ 134Cs\ Decay\ Factor\ \times\ 0.284}{0.91}$$

(Equation 3)

The values of 0.698 and 0.284 are based on *Table 2*, with the 0.91 value coming from the output of the numerator, to standardize the total gamma ray contribution to 1 at the beginning on each decay chain. The numerator of Equation 3 yields a value of ~0.91 for September 2011, which is the general starting point for surveying data. To reach an initial standardization to 1 is to account for the lack of initial values (at the time of the

accident) at each point, of which the material would already have begun decaying, the numerator was divided by 0.91.

Table 2: NuDat3 data for average gamma ray energy for cesium radiation emitted in MeV per decay. Considers ^{137}Cs as the direct transition to ^{137}Ba. (National Nuclear Data Center n.d.).

Radionuclide	Gamma Rays Energy
^{134}Cs	0.698
^{137}Cs	0.284
^{134m}Ba	0.662

The theoretical and observed air dose rate were ratioed to ascertain if the observed is either decreasing or increasing in relation to the calculated physical decay shown in Equation 4. A sample dataset for site 1 using *Equations 3 and 4* is shown in *Table 3*.

$$Air\ Dose\ Rate\ Ratio = Observed\ Air\ Dose\ Rate\ /\ Physical\ decay$$

(Equation 4)

Table 3: Sample of Site 1 observed/physical ratio calculation. (Appendix I)

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/Pl
1_1	11/23/11	1500	1900	3400	0.28	590	770	1360	0.22	0.25	254	0.791368	0.98415	1.000985	0.250246	0.999016
1_2	1/6/12	560	760	1320	0.33	1300	1800	3100	0.22	0.275	298	0.759932	0.98143	0.989106	0.247277	1.112115
1_3	3/1/12	1000	1400	2400	0.38	900	1200	2100	0.25	0.315	353	0.722387	0.978041	0.974811	0.243703	1.292558
1_4	5/21/12	9.3	390	570	0.25	7.8	300	440	0.21	0.23	434	0.670445	0.973071	0.954819	0.238705	0.963534
1_5	7/19/12	9.1	530	800	0.28	12	890	1400	0.2	0.24	493	0.634977	0.969466	0.941006	0.235252	1.020185
1_6	8/31/12	9.2	520	790	0.2	13	800	1300	0.15	0.175	536	0.610315	0.966848	0.931316	0.232829	0.751625
1_7	11/8/12	14	950	1600	0.21	13	1000	1700	0.16	0.185	605	0.572728	0.96266	0.916396	0.229099	0.807511
1_8	12/18/12	8.5	450	800	0.27	12	590	1100	0.26	0.265	645	0.552008	0.960241	0.908086	0.227022	1.16729
1_9	5/14/13	540	1100	1640	0.218	360	750	1110	0.154	0.186	792	0.482095	0.951404	0.879531	0.219883	0.845905
1_10	6/24/13	490	1000	1490	0.17	650	1300	1950	0.14	0.155	833	0.464226	0.948953	0.872085	0.218021	0.710939
1_11	8/6/13	410	880	1290	0.18	740	1600	2340	0.11	0.145	876	0.446196	0.94639	0.864504	0.216126	0.670905
1_12	10/3/13	350	770	1120	0.188	360	880	1240	0.114	0.151	934	0.422981	0.942944	0.854629	0.213657	0.706739
1_13	12/3/13	380	930	1310	0.172	200	440	640	0.12	0.146	995	0.399867	0.939333	0.84466	0.211165	0.691402
1_14	2/4/14	470	1200	1670	0.192	410	1000	1410	0.138	0.165	1058	0.37732	0.935618	0.834788	0.208697	0.79062
1_15	5/9/14	360	920	1280	0.16	310	780	1090	0.15	0.155	1152	0.346021	0.930102	0.820809	0.205202	0.755352
1_16	6/2/14	310	860	1170	0.15	360	990	1350	0.13	0.14	1176	0.338454	0.928699	0.817376	0.204344	0.685119
1_17	8/19/14	460	1400	1860	0.16	190	610	800	0.1	0.13	1254	0.314987	0.924154	0.806581	0.201645	0.644697
1_18	10/22/14	300	950	1250	0.16	190	680	870	0.11	0.135	1318	0.296953	0.920441	0.798116	0.199529	0.676593
1_19	12/11/14	380	1200	1580	0.16	560	1900	2460	0.09	0.125	1368	0.283585	0.917551	0.791736	0.197934	0.631523
1_20	2/12/15	360	1200	1560	0.15	210	710	920	0.09	0.12	1431	0.267595	0.913922	0.783973	0.195993	0.612266
1_21	5/8/15	400	1600	2000	0.14	300	1100	1400	0.11	0.125	1516	0.247441	0.909049	0.773958	0.19349	0.64603
1_22	6/20/15	500	1900	2400	0.11	500	1900	2400	0.09	0.1	1559	0.23783	0.906594	0.769082	0.19227	0.520101
1_23	8/6/15	270	1200	1470	0.14	310	1300	1610	0.11	0.125	1606	0.227753	0.903917	0.763891	0.190973	0.654544
1_24	10/16/15	230	1100	1330	0.13	160	700	860	0.1	0.115	1677	0.213333	0.89989	0.756311	0.189078	0.608216
1_25	12/9/15	270	1100	1370	0.13	230	1100	1330	0.09	0.11	1731	0.20298	0.896838	0.750746	0.187687	0.586084
1_26	2/8/16	240	1300	1540	0.1	190	880	1070	0.07	0.085	1792	0.191888	0.893404	0.744658	0.186164	0.456586
1_27	5/2/16	180	990	1170	0.12	170	880	1050	0.08	0.1	1876	0.177599	0.888696	0.736597	0.184149	0.543038
1_28	6/21/16	230	1400	1630	0.11	190	970	1160	0.07	0.09	1926	0.169604	0.885905	0.731967	0.182992	0.491825
1_29	8/2/16	180	1100	1280	0.1	73	410	483	0.08	0.09	1968	0.163167	0.883568	0.72817	0.182043	0.49439
1_30	10/4/16	120	700	820	0.11	67	390	457	0.07	0.09	2031	0.153967	0.880073	0.722625	0.180656	0.498184
1_31	12/8/16	120	900	1020	0.1	130	730	860	0.08	0.09	2096	0.145018	0.876483	0.717084	0.179271	0.502033
1_32	2/1/17	160	1100	1260	0.09	74	470	544	0.07	0.08	2151	0.137853	0.873456	0.712532	0.178133	0.449103
1_33	5/4/17	110	770	880	0.08	20	180	200	0.05	0.065	2243	0.126651	0.868416	0.705178	0.176295	0.368701
1_34	6/13/17	72	580	652	0.1	22	140	162	0.06	0.08	2283	0.122069	0.866234	0.702078	0.17552	0.45579
1_35	8/4/17	61	550	611	0.1	13	98	111	0.06	0.08	2335	0.116359	0.863405	0.698131	0.174533	0.458367
1_36	10/4/17	95	800	895	0.09	13	110	123	0.06	0.075	2396	0.110001	0.860098	0.693615	0.173404	0.432516
1_37	12/7/17	100	880	980	0.09	11	120	131	0.06	0.075	2460	0.103703	0.856643	0.689004	0.172251	0.435411
1_38	2/18/18	150	1400	1550	0.07	10	110	120	0.05	0.06	2533	0.096958	0.852719	0.683895	0.170974	0.350931
1_39	5/3/18	65	530	595	0.09	7.7	30	30	0.05	0.07	2607	0.090569	0.848759	0.678868	0.169717	0.412451
1_40	6/13/18	100	980	1080	0.07	5.9	38	38	0.05	0.06	2648	0.087212	0.846573	0.676147	0.169037	0.354952
1_41	8/6/18	51	530	581	0.07	6.4	36	36	0.05	0.06	2702	0.082979	0.843702	0.672628	0.168157	0.35681
1_42	10/6/18	76	840	916	0.11	4.9	24	24	0.06	0.085	2763	0.078445	0.840471	0.668738	0.167185	0.50842
1_43	11/10/18	37	480	517	0.1	6.8	39	39	0.06	0.08	2798	0.075956	0.838623	0.666546	0.166636	0.480087
1_44	12/5/18	120	1400	1520	0.08	5.1	17	17	0.05	0.065	2823	0.074227	0.837305	0.664997	0.166249	0.390979
1_45	5/4/19	46	580	626	0.1	4.1	40	40	0.05	0.075	2973	0.064647	0.829442	0.655985	0.163996	0.457328
1_46	6/2/19	76	1000	1076	0.09	6.1	45	45	0.06	0.075	3002	0.062943	0.827931	0.654295	0.163574	0.458509
1_47	8/14/19	48	650	698	0.11	5.4	34	34	0.06	0.085	3075	0.058849	0.824138	0.650112	0.162528	0.522987
1_48	10/10/19	40	510	550	0.06	5.7	26	26	0.06	0.06	3132	0.055838	0.821188	0.646913	0.161728	0.370992
1_49	11/10/19	38	640	678	0.06	5.3	87	92.3	0.05	0.055	3163	0.054266	0.819589	0.645197	0.161299	0.340981
1_50	12/2/19	5.8	61	66.8	0.06	7.1	75	75	0.06	0.06	3185	0.053178	0.818455	0.643989	0.160997	0.372677
1_51	8/16/20	4.3	8.5	8.5	0.04	4.9	23	23	0.04	0.04	3443	0.041928	0.80528	0.630385	0.157596	0.253813
1_52	10/4/20	4.8	7.2	7.2	0.05	5	28	28	0.05	0.05	3492	0.040078	0.802802	0.627909	0.156977	0.318518
1_53	11/19/20	5.5	9.7	9.7	0.05	6.3	34	34	0.06	0.055	3538	0.038415	0.800483	0.625613	0.156403	0.351655
1_54	12/4/20	4.7	7.2	7.2	0.05	6.6	120	120	0.07	0.06	3553	0.037888	0.799728	0.62487	0.156217	0.38408
1_55	5/20/21	7.6	18	18	0.04	9	36	36	0.04	0.04	3720	0.032485	0.791371	0.61678	0.154195	0.259412
1_56	6/1/21	6.1	11	11	0.05	9.3	55	55	0.06	0.055	3732	0.032128	0.790774	0.616211	0.154053	0.35702
1_57	8/7/21	5.5	15	15	0.05	8.3	40	40	0.05	0.05	3799	0.030205	0.787449	0.613063	0.153266	0.326231
1_58	10/16/21	7.8	12	12	0.05	8.8	29	29	0.06	0.055	3869	0.028319	0.783989	0.609823	0.152456	0.36076
1_59	11/11/21	7.5	16	16	0.04	6.3	21	21	0.05	0.045	3895	0.027648	0.782708	0.608632	0.152158	0.295745
1_60	12/3/21	8.7	14	14	0.05	7.7	56	56	0.05	0.05	3917	0.027094	0.781626	0.60763	0.151907	0.329148
1_61	5/9/22	7.4	23	23	0.05	8.3	16	16	0.05	0.05	4074	0.023445	0.773945	0.600605	0.150151	0.332997
1_62	6/6/22	5.5	16	16	0.04	7.5	9.6	9.6	0.03	0.035	4102	0.022848	0.772583	0.599375	0.149844	0.233577
1_63	8/1/22	6.5	26	26	0.04	5.4	46	46	0.05	0.045	4158	0.021699	0.769866	0.596935	0.149234	0.301541
1_64	10/3/22	5.7	7.3		0.04	5.9	22	22	0.04	0.04	4221	0.020476	0.766822	0.594219	0.148555	0.269261
1_65	11/3/22	5.7	11	11	0.05	8.7	10	10	0.06	0.055	4252	0.019899	0.765328	0.592895	0.148224	0.371061
1_66	12/5/22	5.2	13	13	0.06	7	29	29	0.05	0.055	4284	0.019321	0.763789	0.591535	0.147884	0.371914
1_67	5/2/23	5.4	8.2	8.2	0.04	8.1	20	20	0.05	0.045	4432	0.016859	0.756712	0.585342	0.146336	0.307512
1_68	6/14/23	9	8.1		0.04	6.8	21	21	0.05	0.045	4475	0.016204	0.754668	0.583572	0.145893	0.308445
1_69	8/14/23	7	7.6	7.6	0.04	5.5	24	24	0.05	0.045	4536	0.015318	0.751778	0.58108	0.14527	0.309768
1_70	10/3/23	5.5	9.6	9.6	0.05	7.1	26	26	0.05	0.05	4586	0.014629	0.749417	0.579056	0.144764	0.34539
1_71	11/11/23	5.1	9.3	9.3	0.05	6	19	19	0.05	0.05	4625	0.014113	0.747581	0.577487	0.144372	0.346328
1_72	12/25/23	7.8	9.4	9.4	0.05	9	20	20	0.06	0.055	4669	0.013552	0.745515	0.575729	0.143932	0.382124
1_73	5/1/24	7.2	8.2	8.2	0.05	8.8	18	18	0.06	0.055	4797	0.012045	0.739537	0.570676	0.142669	0.385507
1_74	6/5/24	7.6	9.4	9.4	0.05	6.9	22	22	0.05	0.05	4832	0.011662	0.73791	0.569311	0.142328	0.351302
1_75	8/15/24	5.9	12	12	0.04	8.5	28	28	0.05	0.045	4903	0.010924	0.734622	0.56656	0.14164	0.317707

ArcGIS Site Maps

For the ArcGIS portion of this research, the flow direction map of Japan provided by Dr. Dai Yamazaki from the Institute of Industrial Sciences at the University of Tokyo was utilized. From Doctor Yamazaki's flow chart, the built-in features of ArcGIS were utilized to analyze the river basin for each site (Appendix A). After importing the

information of the river basins of all of Japan, data for each site location quickly followed. Using the general flow map of the river basin and identifying the lowest elevation points (where the data value was equal to 0), the approximate positions of rivers were determined by placing feature points that corresponded to the site locations. The river basin data was then processed with the ArcGIS watershed geoprocessing tool to define the watershed boundaries for each site.

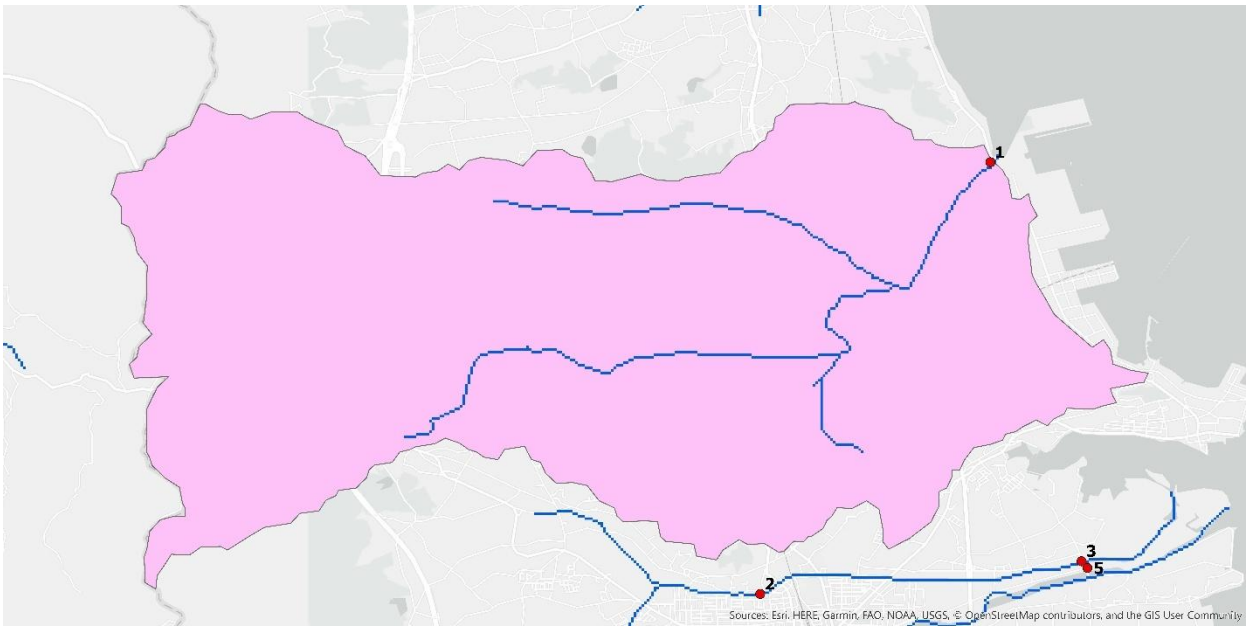


Figure 4: Site 1 watershed. (Appendix E)

Geographical data, specifically Digital Elevation Model (DEM) data, was imported to determine the elevation in each watershed (Geospatial Information Authority of Japan 2025). Watershed and elevation data were integrated, and the peak of the catchment was found, noting both the distance above sea-level and the coordinates. A generic version of the process is shown in *Figure 5*.

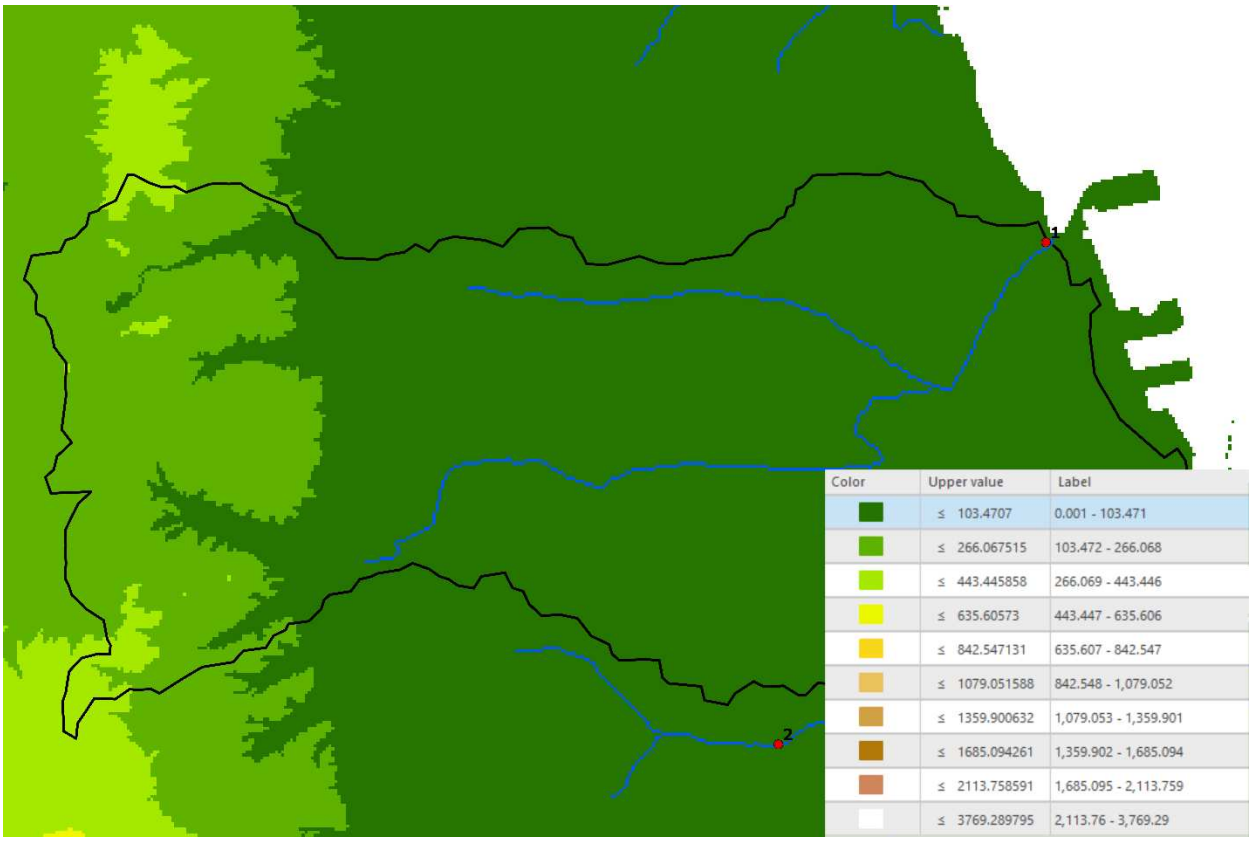


Figure 5: Site 1 watershed geography (height in m above sea level). (Appendix F)

Watershed map coordinates were converted to radians and calculated in *Equation 4* To find the distance between the peak of the watershed and the site location (Haversine Equation to correct for spherical nature of the Earth).

$$D_C = 2 \times R \times \arcsin\left(sqrt\left[sin^2\left(\frac{(lat2-lat1)}{2}\right) + \cos(lat1) \times \cos(lat2) \times sin^2\left(\frac{long2 - long1}{2}\right)\right]\right)$$

(Equation 5)

- Where R is radius of the Earth (assumed to be 6378[137] m) and D_C is the curved distance

Taking the difference in elevation between the peak and site, as well as the D_C, a relief ratio was calculated using *Equation 5* and drawn out in *Figure 6*. The relief ratio is the

consistent factor between each point to determine the downstream effects and potential to predict the movement of radionuclides in the environment.

$$Relief\ Ratio = \frac{Elvation_{Diff}}{D_C}$$

(Equation 6)

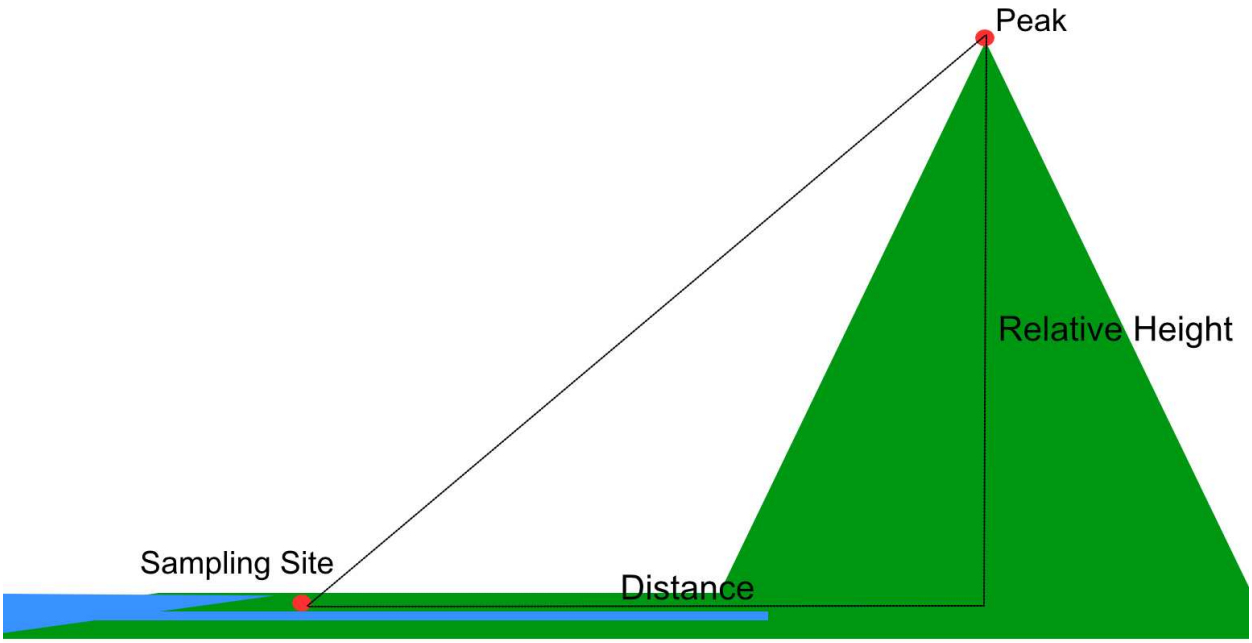


Figure 6: Relief ratio diagram.

Similarly, using the data from Kato et al. 2018, initial deposition maps were made for each site watershed to inform the overall radiation levels visually, shown in *Figure 7*. Visual patterns of deposition were noted for any alignment with geographic peaks, with watershed outside of the major deposition regions (red in *Figure 7*). It was generally seen that the peak received the highest initial deposition, which could be indexed into for future work done.

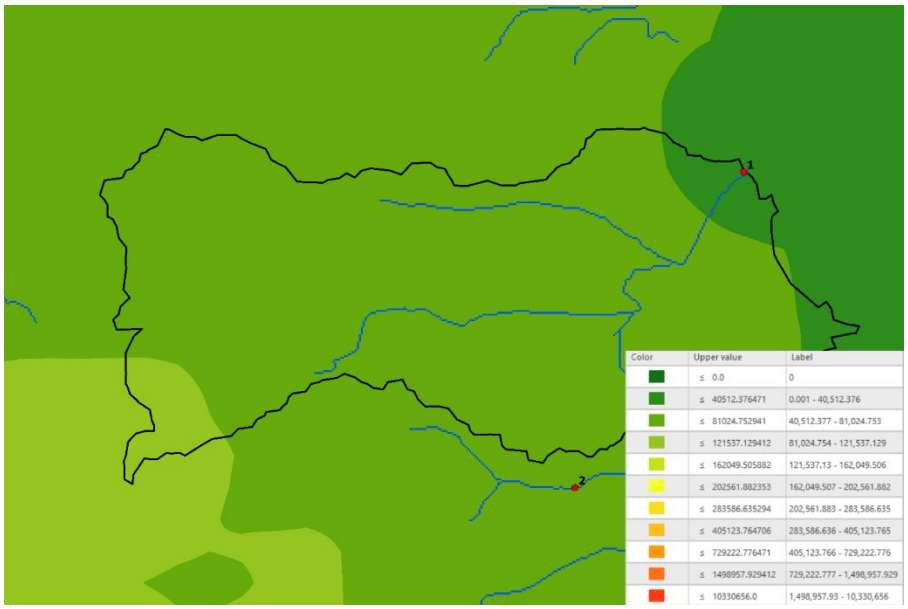


Figure 7: Site 1 watershed initial deposition (key in Bq/m^2). (Appendix G)

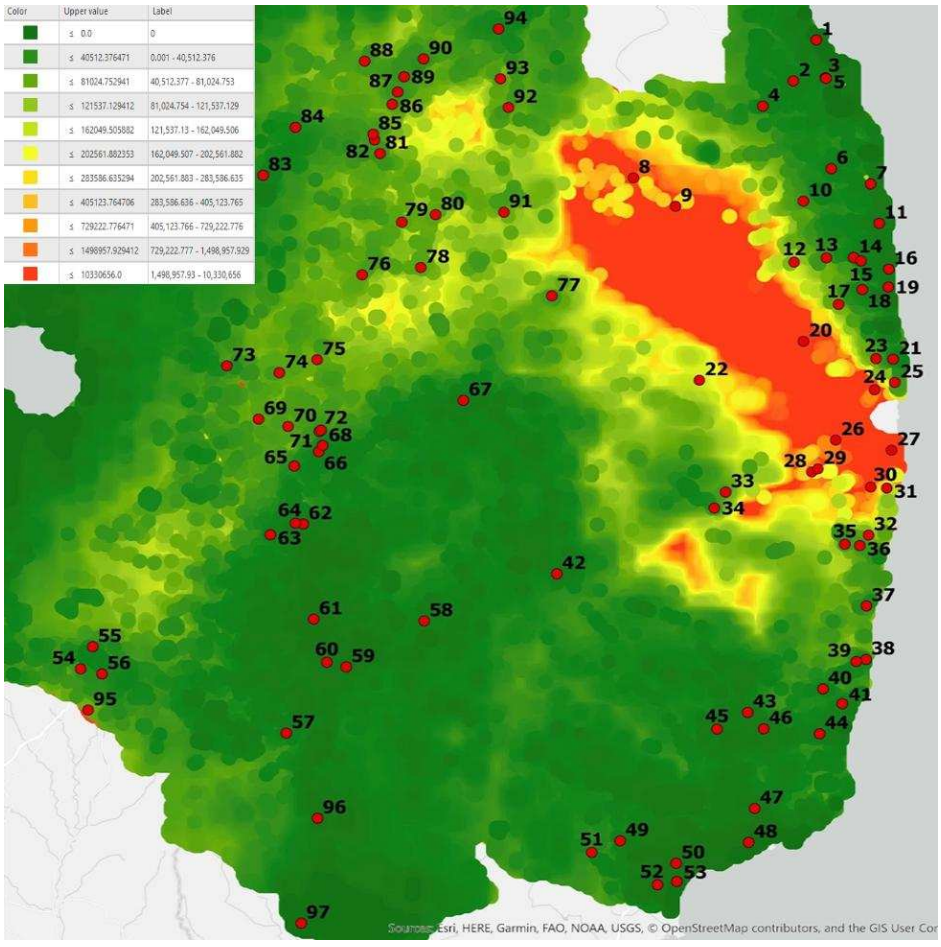


Figure 8: All site initial Deposition (key in Bq/m^2).

Event Analysis

The main analysis was completed using dates picked from rain data along with river water level. The highest eleven (11) distinct daily rainfalls and water levels were considered as the basis of a precipitation event. Marumori Weather Station's rainfall data from 2011-2024 was utilized (Japan Meteorological Agency 2025). Ministry of Land, Infrastructure, Transport and Tourism data was used at both the Marumori and Fukushima water level assessment stations along the Abukuma River from 2011 to 2024 for peaking water levels (due to partially missing data for each).

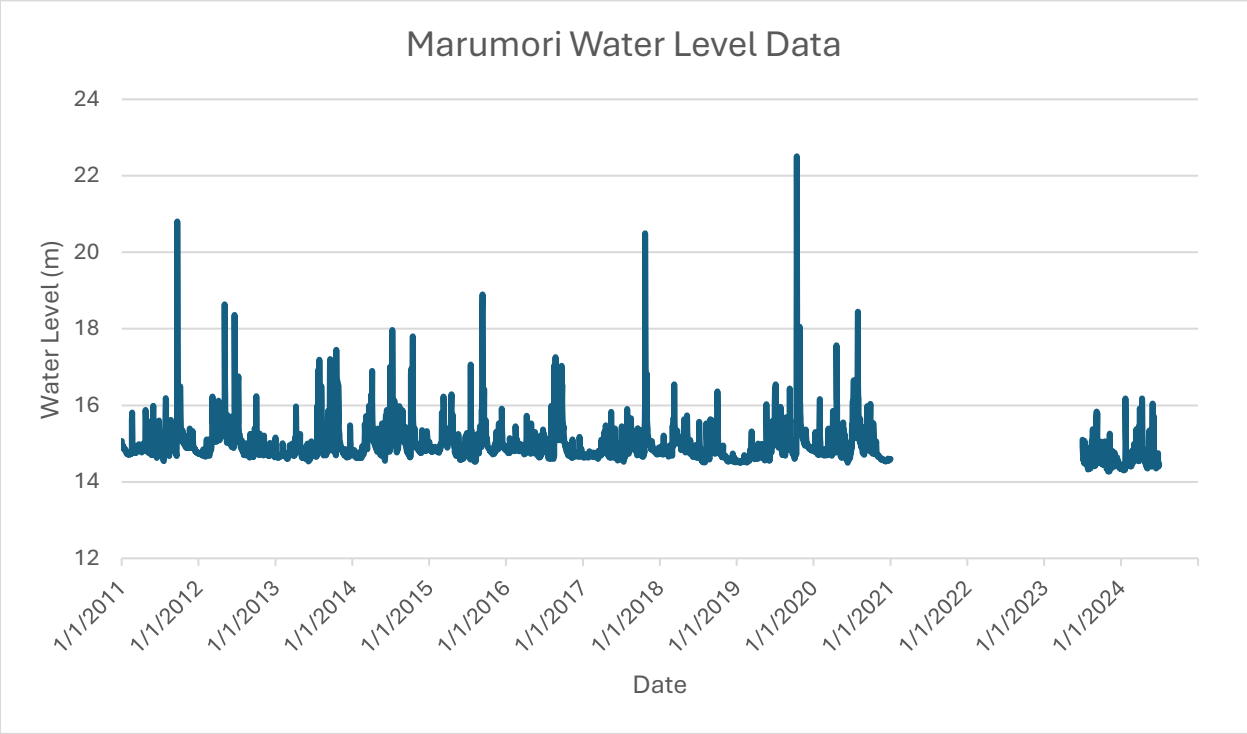


Figure 9: Abukuma River Marumori daily water level data 2011 to 2024 (in mm above sea level)

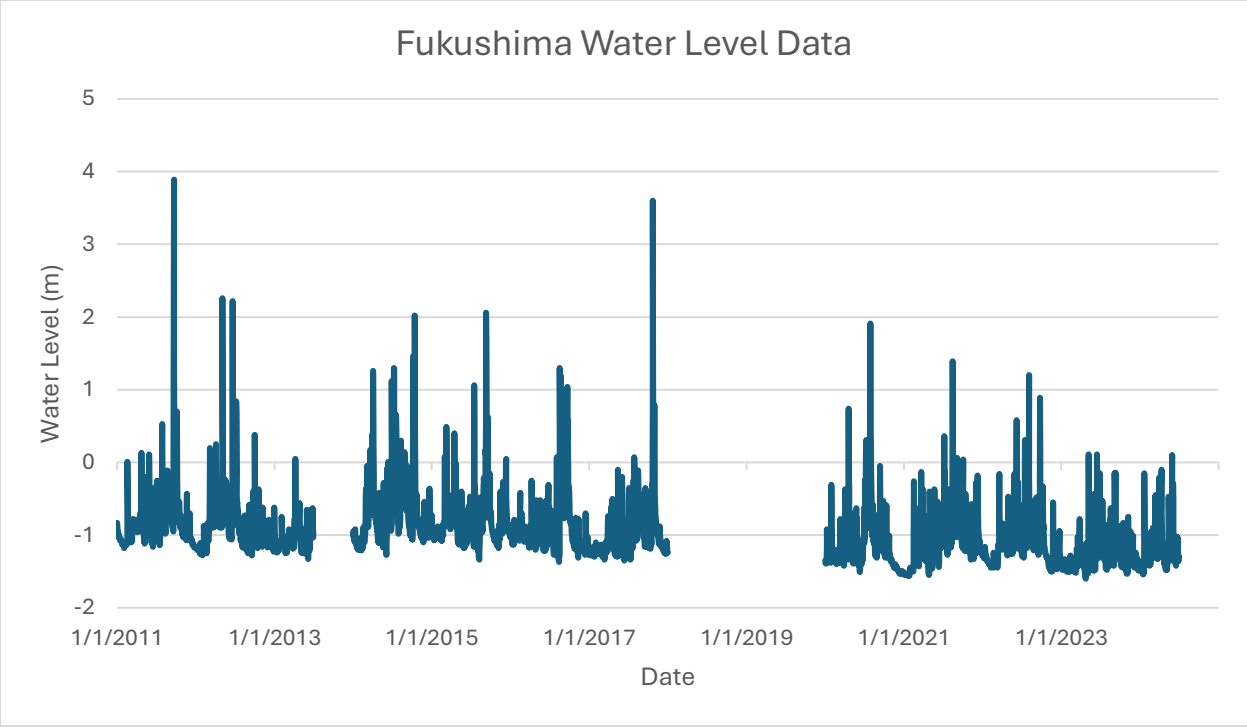


Figure 10: Abukuma River Fukushima daily water level data 2011 to 2024 (in mm above sea level)

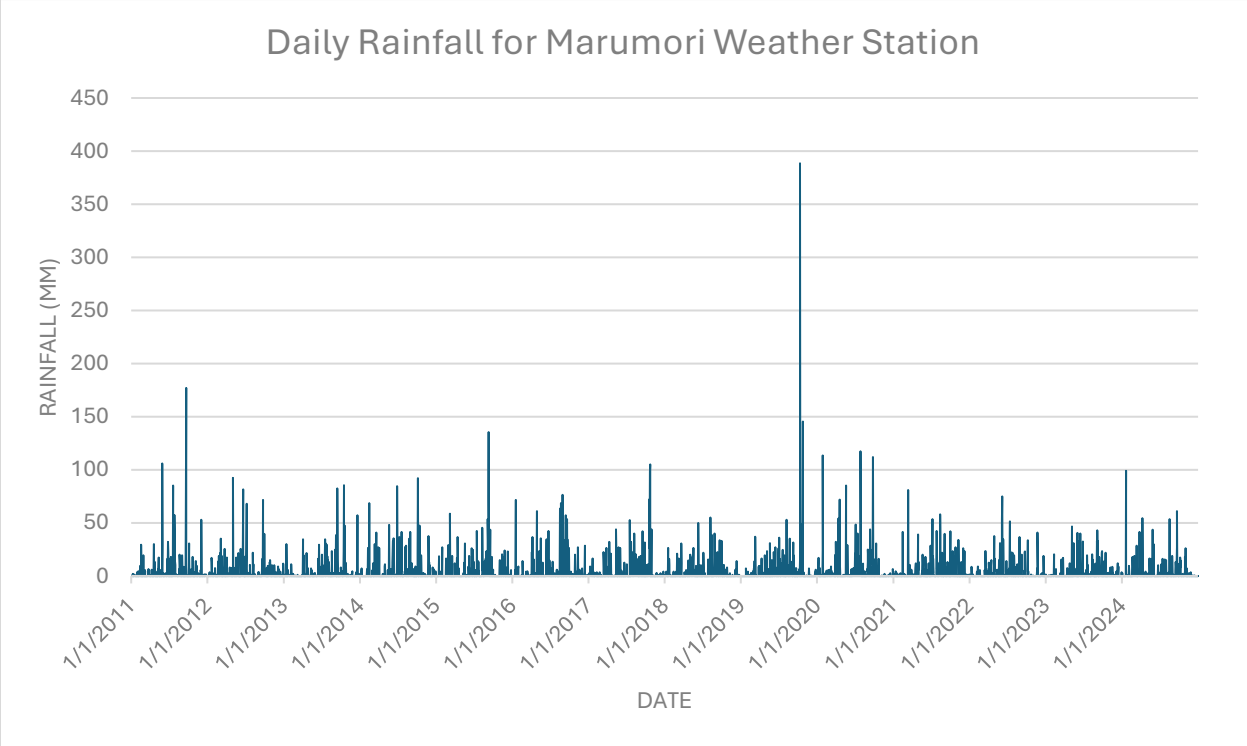


Figure 11: Daily rainfall data for Marumori Weather Station from 2011 to 2024

Next, the nearest sampling dates of air dose before and after the event were identified (given no other conflicting event) using an excel VBA macro (Appendix D). During event analysis, if samples were taken during the event (generally within 1-2 days of the event) they were noted in Appendix B due to water being able to cover critical portions of the land that would contribute to the overall air dose rate that was being sampled. Before and after were linked with the relief ratio or area of the watershed to try to find a hypothesized linear relationship (shown in *Figure 12*) for which future events could be predicted. Using the same events, individual sites were analyzed to see if individual patterns emerged.

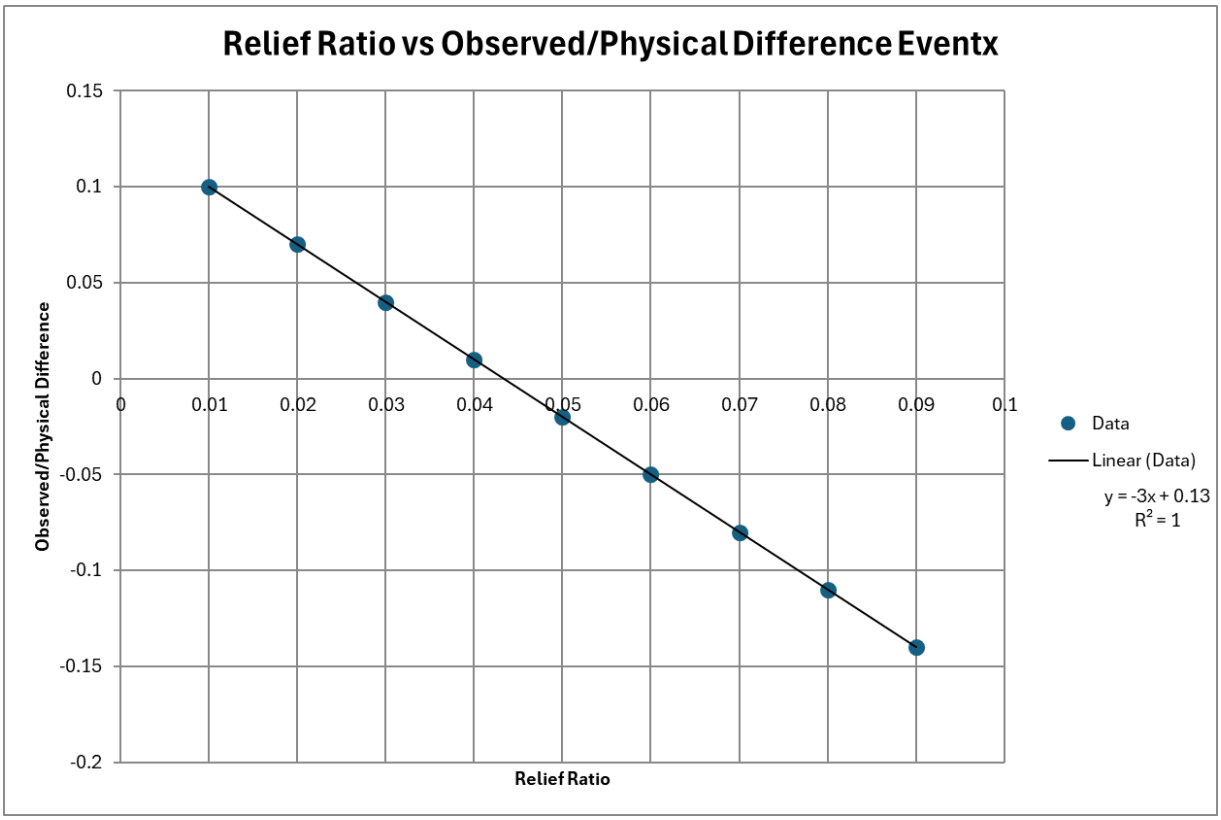


Figure 12: Hypothesized linear relationship between events and relief ratio. This shows that as the watershed gets steeper there will be more erosion, while the flatter lands will be more susceptible redeposition.

Air Dose Rate Slope Analysis (2015-2024)

After patterns appeared to emerge in the graphs created in “Air Dose Rate Ratio Analysis,” research was expanded to quantify if the physical and observed air dose rates after a certain period were essentially equal. Visually looking at graphs (Appendix J), 2015 appeared to be a year in which most loose radiocesium had settled and slope analysis could be completed. To compare the slopes of observed and physical decay, a paired t-test was used on the slopes (-λ) of *Equation 2*. A graph identical in formatting and execution to the previous air dose rate decays was created with an exponential trend line for both observed and physical decay values from 2015 to 2024. A paired t-test determines if there is a mean difference between the two data sets, which is ideal for this scenario. The null hypothesis is that the population mean physical decay and population mean observed decay are equal, while the alternative hypothesis is that there is difference.

IV: RESULTS

Dose Rate Overview

Generally, five years after the accident (2016), 57 of the 97 sites the dose rate were approximately two times background or lower (denoted at roughly 2.09 mSv/y in Japan before the accident) (Harada et al. 2014). *Figure 13* shows a graph of the average dose rate in blue for site 1, with it being at 0.09 μSv/h at the end of 2016. This is a site with low initial deposition but is a consistent trend in all sites not in the direct dispersion path of the accident. Site 20 was the highest initially contaminated site. Site 20 contrasts site 1 and is shown in *Figure 14*. The dose rate at the end of 2016 is at 2.15 μSv/h, which is significantly above public dose rate limits.

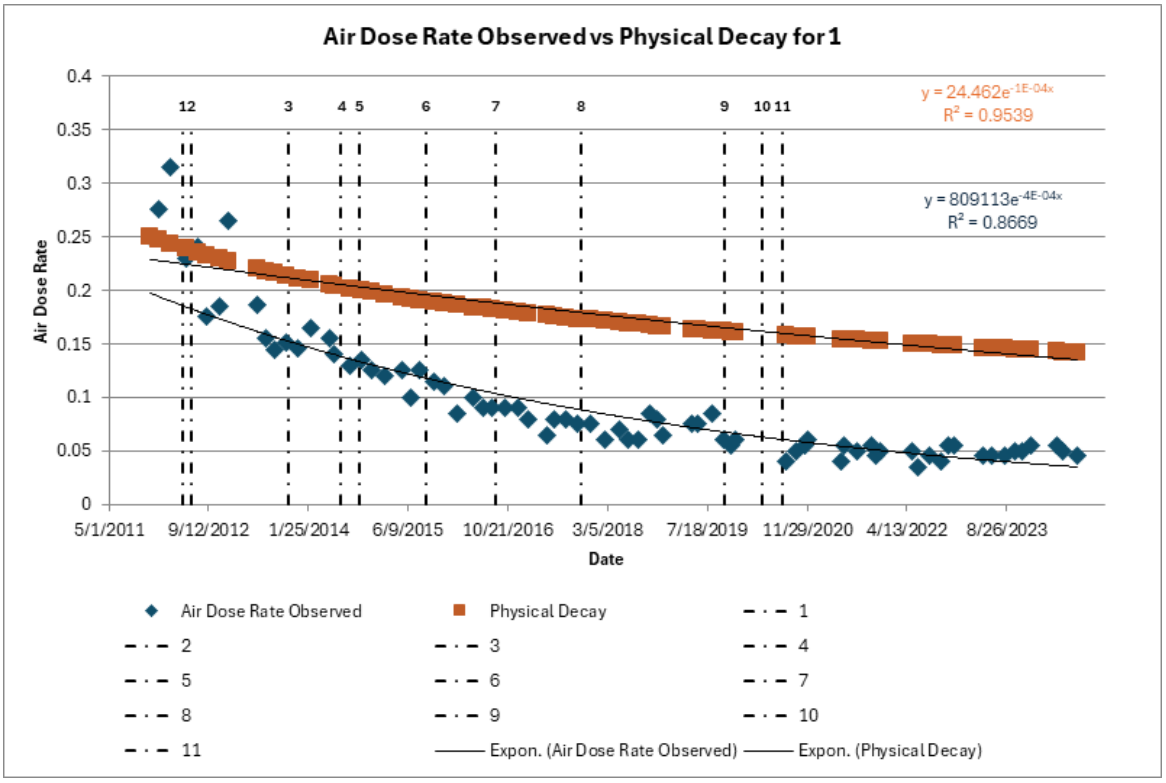


Figure 13: Average dose rate observed vs physical decay for site 1 (dose rate in μSv/h) (Appendix J).

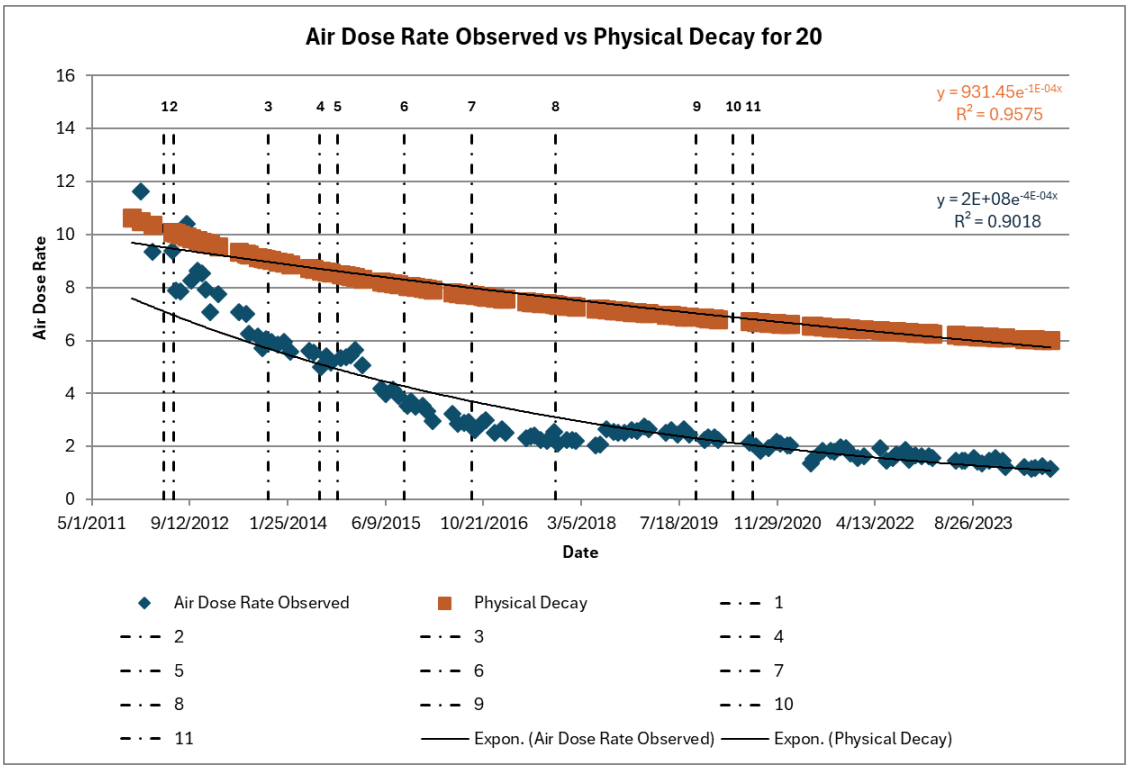


Figure 14: Average dose rate observed vs physical decay for site 1 (dose rate in µSv/h) (Appendix J).

Overall Event Analysis

The following dates were selected as precipitation events: 5/4/2012, 6/20/2012, 10/16/2013, 7/9/2014, 10/6/2014, 9/10/2015, 8/23/2016, 10/23/2017, 10/13/2019, 4/19/2020, and 7/29/2020. The term 'Incorrect Event 10' refers to data inconsistencies caused by COVID-19-related sampling issues during the events of 4/19/2020 and 7/29/2020. These inconsistencies arise because only about 5 out of the 97 sites provided usable data for these dates. To compensate for the limited data during the events themselves, measurements from dates immediately before and after these events were included in the analysis (in the date range of 10/14/2019 to the first sample following 7/29/2020). Event 1's area and observed/physical difference are shown in

Figure 15, and the relief ratio and observed/physical difference are shown in *Figure 16* (with the corresponding map in *Figure 17*).

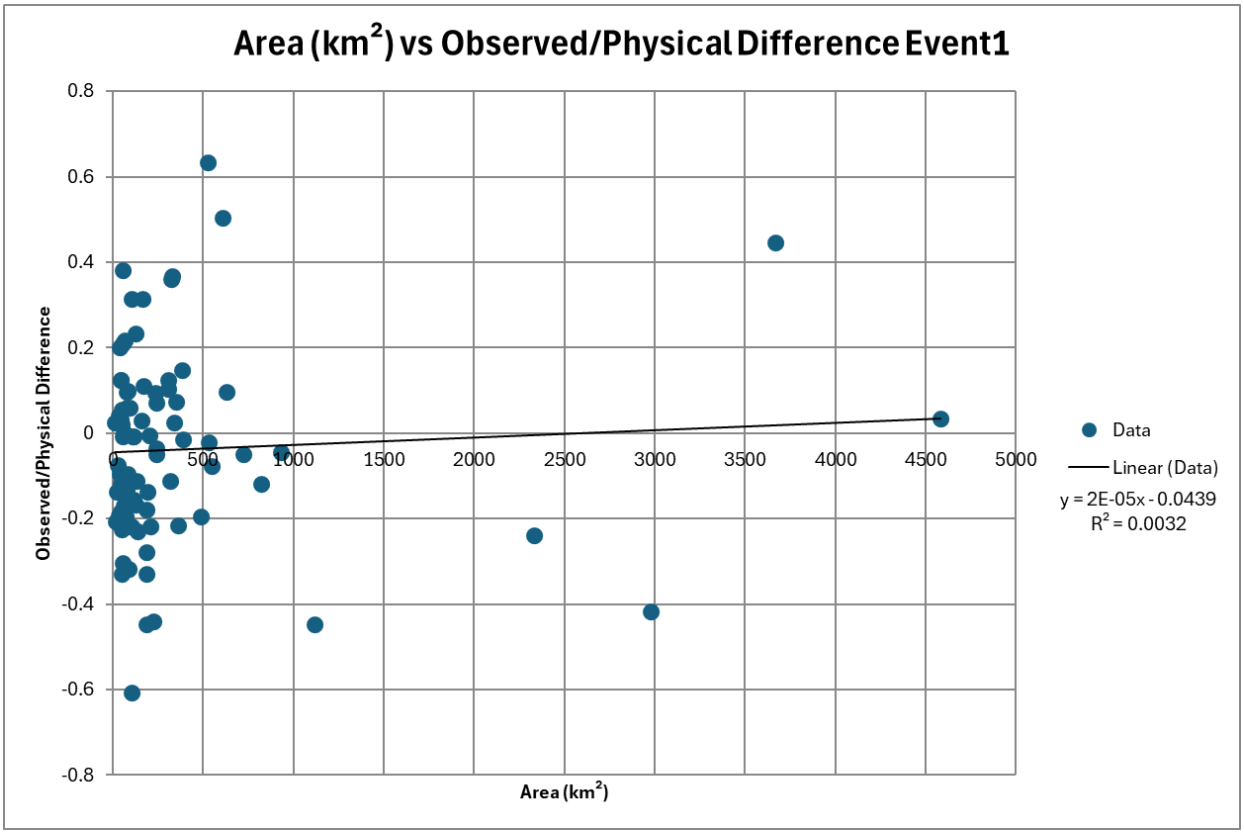


Figure 15: Area vs observed/physical decay for event 1. A slight increase in O/P ratio as area grows suggests more decay than expected, while areas under 2500km² are potentially seeing redeposition occur, but the low correlation (0.0032) prevents firm conclusions. (ratio dose rate difference in μSv/h) (Appendix L)

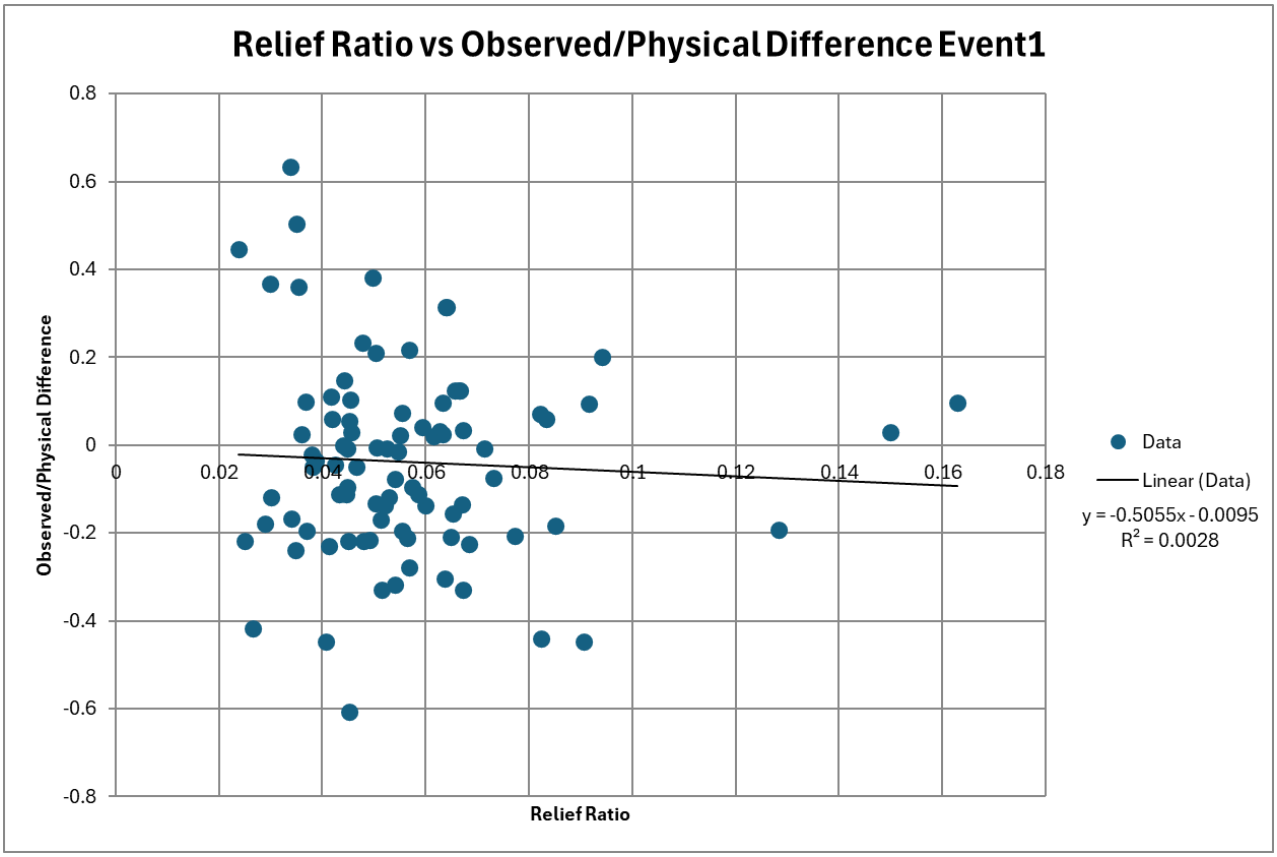


Figure 16: Relief ratio vs observed/physical difference event 1. A slight decrease in O/P ratio as relief ratio increases may suggest erosion of radiocesium, but the very low correlation (0.28%) prevents firm conclusions. (ratio dose rate difference in μSv/h) (Appendix L)

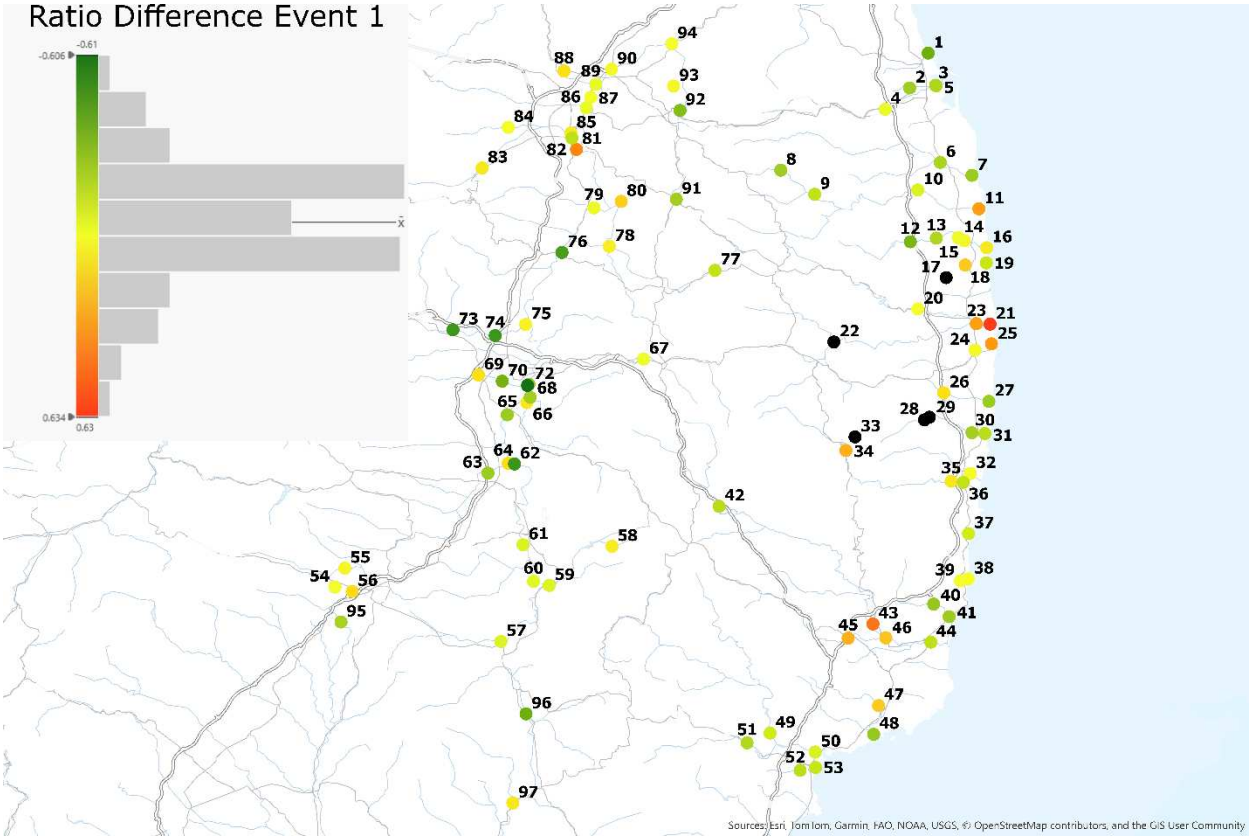


Figure 17: Map of relief ratio vs observed/physical difference event 1. The black dots are indicating sites that we do not have data on, while red is showing sites with lower-than-expected air dose rates and green is showing higher than expected air dose rates (ratio dose rate difference in μSv/h) (Appendix M)

The highest linear correlation for area vs observed/physical difference is Event 11 with an R^2 = 14.59%. However, as previously stated, Event 11 does not have enough sites to be considered a reliable reference. Therefore, Event 8 with an R^2 = 6.09% has the highest usable correlation. For relief ratio vs observed/physical difference, the highest linear correlation is found in Event 10 and then Incorrect Event 10, but neither can be used for previously stated reasons, so Event 6 is the highest usable correlation with an R^2 = 2.15%. All R^2 values are shown in *Table 4* below. *Table 4* shows there is little to no linear correlation for any of the tested methods for predicting before and after event differences in observed/physical ratios.

Table 4: Linear correlation of each event for area and relief ratio compared to difference of observed/physical ratio.

	Area Correlation	RR Correlation
Event 1	0.32%	0.28%
Event 2	4.21%	0.38%
Event 3	0.03%	0.98%
Event 4	0.01%	0.05%
Event 5	3.71%	0.00%
Event 6	0.10%	2.15%
Event 7	0.01%	0.28%
Event 8	6.09%	2.02%
Event 9	1.92%	0.96%
Event 10	6.81%	8.66%
Event 11	14.59%	4.23%
Incorrect Event 10	0.09%	5.91%
Average Events 1-9	1.82%	0.79%

Individual Site Event Analysis

Figures 18 and 19 show the site 1 linear correlation for the events and average event difference correlation between events.

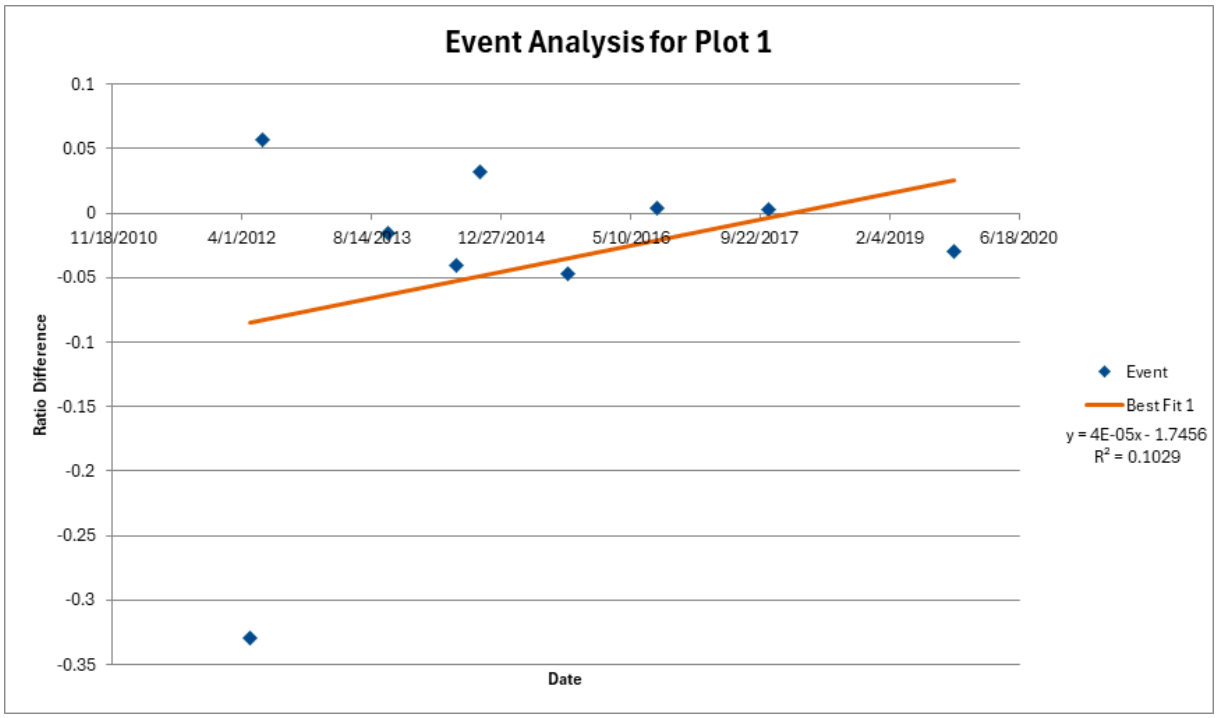


Figure 18: Correlation observed/physical ratio difference between events for site 1. A trend pulled down by Event 1 having large erosion, but shows a trend after that of increasing ratio, and gradually eroding again (when ignoring Event 1). (Appendix N)

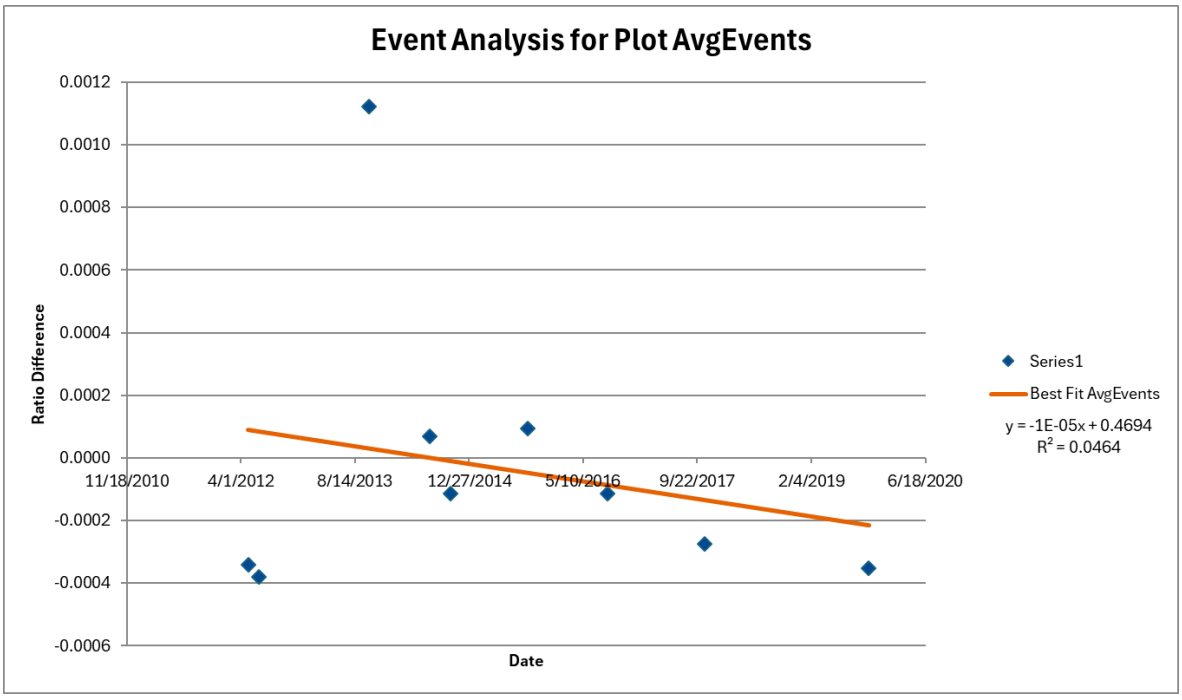


Figure 19: Correlation of average observed/physical ratio difference between events for all sites. A trend pulled up by Event 1 having large redeposition but shows a trend after that of decreasing ratio with erosion occurring again. (Appendix N)

The individual site analysis yields a higher linear correlation on average than the relief ratio and area analysis but gives less flexibility as to how this information could be used. Averaging the observed/physical ratio difference for each event also allows for a better linear correlation but does have a direct predictor that could be used in future events. Overall, the trends are the observed/physical average ratio difference decreases on average for each event, but both individual and average of sites have low R^2 values are thus not significant. Site 1 is experiencing something similar: a rapid decay due to environmental factors, with potential replenishment from the second event, then limited notable deviation from physical decay before vs after an event. The trendlines in all individual site graphs appear to be heavily influenced by Event 1 and Event 2, causing a low correlation to occur and more difficult prediction capabilities in this range.

Air Dose Rate Slope Analysis (2015-2024)

A baseline graph for site 1 is shown in *Figure 20* below. The exponent shows the slope value for each dataset.

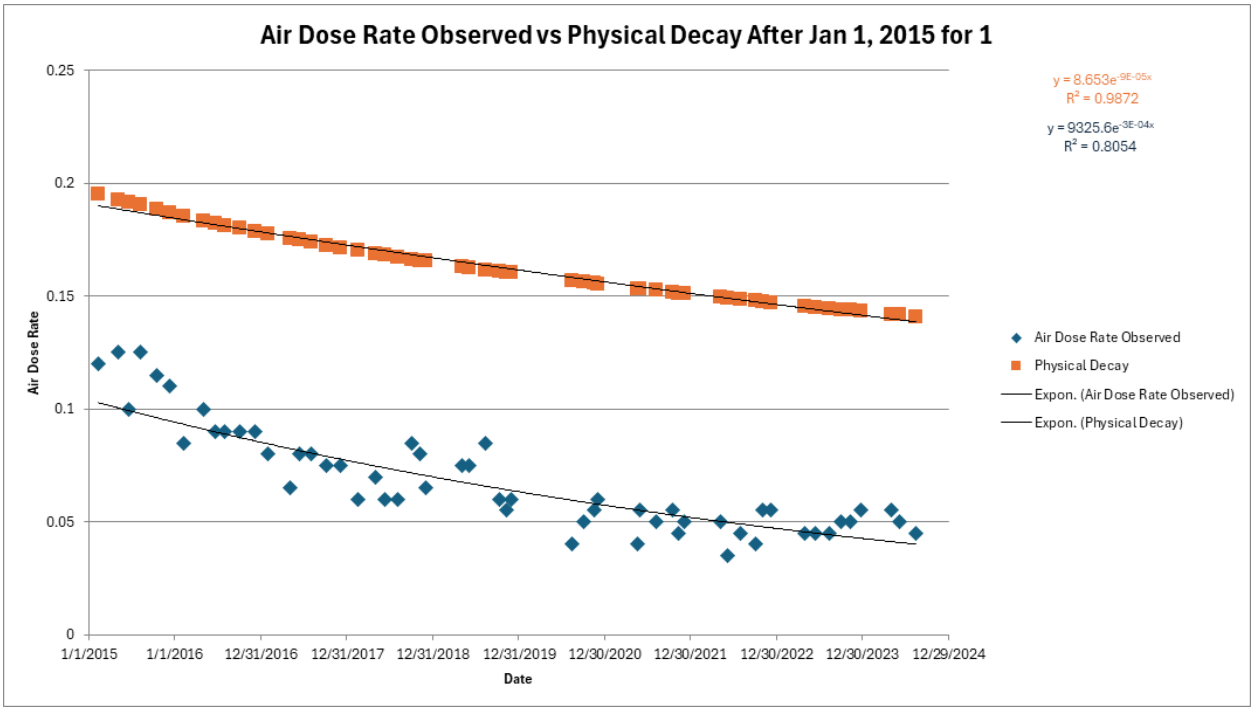


Figure 20: Site 1 ratio decay slopes starting in 2015. (Appendix M)

Table 5: Average by slope and difference, with p-value from paired t-test (Appendix O).

Site	Observed Slope	Physical Slope	Difference (Phys - Obs)
Average	-0.000245979	-9E-05	0.000155979
Paired T-Test (P-Value):	8.492E-23		

The paired t-test from *Table 5* shows a p-value of 8.492E-23, which is much lower than the standard 0.05 alpha (decision threshold of 95% confidence). With a value lower than alpha, we reject the null hypothesis that the population means are equal and have evidence that the population means of the observed and physical decay slopes are different.

When visually looking at the slopes of each graph observed vs physical 2015-2024, there does not seem to be a large difference between slopes and that is

confirmed with the actual data of the process. The observed decay is on average 13.4 years quicker than the physical decay of 21.10 years. The greatest effective half-life difference is 14.77 years faster at sites 31 and 86, while site 19 shows no difference. Notably, at sites 47, 53, and 97 saw a ^{134}Cs & ^{137}Cs environmental decay of 27.13 years, which was slower than the baseline physical decay of 21.1 years. *Table 5* shows all the effective half-lives and differences calculated.

Table 5: Effective half-life of radiocesium (^{134}Cs and ^{137}Cs) and observed average half-life of sites.

Effective Half-Life	Days	Years
^{134}Cs & ^{137}Cs	7701.64	21.10
Average Observed	2817.91	7.72
Max Observed	2310.49	6.33
Min Observed	7701.64	21.10
Difference Cs-Avg	4883.73	13.38
Difference Cs-Max	5391.14	14.77
Difference Cs-Min	0.00	0.00

V: DISCUSSION

Dose Rate Overview

Most sites with a dose rate of twice the amount of background or less had reductions that were greater than expected from physical decay alone, seen in the form of an ecological half-life. Many sites had dose rates that are less than half of the dose rate expected due to physical decay. There are a few exceptions, such as site 20. Site 20 is still at 20 times background, although this site is still rapidly decreasing in dose rate. While the air dose rate reduction does not correlate to precipitation events, the rapid reduction of dose rates is reassuring following the unforeseen deposition of radioactive isotopes in the environment. The timetable over which dose rates along the riverbanks are reduced might be better understood with more information regarding soil composition and the specific vertical migration patterns that go along with that soil. Geographic landscape differences may contribute to observed dose variations; however, prevailing analysis indicates that each site is becoming increasingly safer for the public at a rate exceeding expectation in the absence of environmental decline.

Overall Event Analysis

No conclusions can be made about the overall event analysis portion of the research. The event selection is sound, with nine (9) properly formulated events being analyzed, but unfortunately yielded no discernable takeaways. It may be important that the relief ratio analysis that had the highest linear correlation was Incorrect Event 10,

which put together multiple dates with event criteria and could be used in future work rather than individual events. It may be worthwhile investigating whether long term trends may be more feasible for modeling.

Individual Site Event Analysis

Event analysis for individual sites had a higher correlation than for all sites overall, but again no plots had a statistically significant R^2. There did not appear to be a noticeable pattern as to which sites saw an increase or decreasing trend-line between events, so no conclusions can be made. Unfortunately, more detailed models for each site could also benefit from geology and soil composition being factored in as factors more important than just the relief ratio of each site.

Air Dose Rate Slope Analysis (2015-2024)

There are likely several factors contributing to why the data beginning in 2015 did not support the null hypothesis. While visually appearing roughly equal, the date chosen was likely too early for full erosion of loose or soluble radiocesium in the environment. The clay very rapidly binds radiocesium in the environment, but any loose or soluble material in the environment that is susceptible to erosion and redeposition may not have reached an equilibrium as of 2015, but with further information and investigation could yield more substantial results in the future. While most radiocesium being moved in the river are bound by organic material, the movement from forest sources could still be yielding higher than expected influxes of radiocesium (bound or unbound) or the erosion

process and vertical movement is still volatile, causing unpredictable variations in event movement (Iwata et al. 2012) (Somboon et al. 2018) (Tatsuno et al. 2022). The lack of information on which sites contain clay and which do not, the sites cannot be sorted to account for those trapping radiocesium in the soil (high clay levels) and sites that are not or are at a low clay content. With close averages, the sorting of site soil compositions could be the difference between rejecting the null hypothesis based on extrema and failing to reject the null hypothesis.

Radioecology

Terrain interactions and geology were not included as factors for modeling dose rates but could be an important influence on riverbank dose rates. The clay near some riverbanks in Japan can cause radiocesium to get trapped and not move in some areas, which could lend itself to results being non-transferrable to other regions (Ministry of Environment 2024). Another radioecological factor is the vertical movement of radiocesium in the environment, which could cause lower dose rates on the surface and cause erosion, but could trap radiocesium in areas with large clay deposits (Sakaguchi 2014) (Tatsuno et al. 2022) (Ministry of Environment 2024). The clay in the environment does vary watershed to watershed, which the individual plot analysis aimed to set up for future work, but failed in this instance.

Future Work

Instead of focusing solely on the relief ratio, it is important to examine the specific environmental conditions of each river tributary. By distinguishing between the main “direct line” river and its tributaries, it can be better understood how these differences affect radiocesium deposition and retention. For example, the large inland Abukuma River system, which covers points 55-97, may behave differently in terms of radiocesium accumulation and movement compared to shorter, coastal rivers. This distinction could explain the significantly lower correlation (by about a factor of ten) observed between the two types, although additional time and research are needed to confirm these findings.

Rain and water level data need to be analyzed in the context of regional differences from the local weather station, to capture both minor and major discrepancies in measurements. Rainfall is seldom consistent across a wide area, and the current study did not appropriately account for small scale geographic precipitation variation. It is possible that accounting for regional differences from weather stations may not increase correlation, and the best practices would require consideration of all variables. Another viable next step would be taking a similar initial deposition normalization method used in Taniguchi et al. (2019) and attempting the same analysis done in this research.

Continued monitoring on physical vs observed slope analysis of each year may eventually see a similar pattern of the half-life converging. Doing a similar analysis starting in years 2012-2024, 2013-2024… 2023-2024 may give an overview of the decay differences that are occurring alongside the events that are analyzed. The half-

life of physical and observed may eventually converge once vertical migration has reached a settling point, all loose radiocesium has washed away, and/or redeposition from all sources outside of riverbanks has ceased (such as forest runoff). Future work is also possible in the events from 2013 to 2015 due to the most movement occurring in this time. With high levels of erosion and redeposition occurring between these dates, with the absence of harshly skewing extrema seen in Events 1 and 2, there is a possibility that a better relationship can be found by picking only high-water level events in this period.

VI: CONCLUSION

Conclusion

Radioactive materials were released into the environment as a result of the tsunami and subsequent reactor accident in Fukushima, Japan. The primary isotope of ongoing concern is radiocesium, which was dispersed into the atmosphere and surrounding regions within Japan. Environmental monitoring of radiocesium concentrations in Fukushima Prefecture has been conducted from 2011 to the present. Although radiocesium levels have generally declined since the initial release in 2011, this decrease has not been consistent across all areas. Radiocesium contamination has been assessed using sodium iodide (NaI) detectors approximately every three months, with more frequent sampling in heavily contaminated locations.

The objective of this research was to analyze the presence of radiocesium in soil and its subsequent movement through runoff or sedimentation driven by tidal fluctuations along riverbanks in contaminated regions. Changes in radiocesium distribution have been monitored by measuring air dose rates at multiple sites before and after substantial variations in water levels. The working hypothesis is split into four in this work. The first and second hypotheses aim to prove that relief ratio and area are predictors for erosion and redeposition of radiocesium impacting air dose rates following water level events across different watersheds. The third aims to do the same as one and two, but on an individual watershed basis, with subsequent research being completed if successful. Finally, an analysis of slopes in each of the 97 sites aimed to

find if after a settling period of four years, there was a difference in physical and observed decay.

Due to a lack of statistical correlation with the tested variables, none of hypothesis' are proven. Data analysis provides no conclusive reason as to why specific sampling points saw increases and decreases in air dose rate after high water level events occurred. There was no statistically significant linear relationship in wholistic or individual event analysis. The general trend is a decreasing observed/physical ratio, but with low correlation in almost every linear fit line, this cannot be confidently for each event due to high volatility in which sites increase or decrease. Through the relief ratio analysis, it can be concluded that neither watershed area nor relief ratio are a reliable predictor to the variation between observed and physical decay in air dose rate for the Fukushima riverbanks studied. Individual site analysis showed more promising correlations for relief ratios prediction based on area and relief ratio but was not statistically significant. Through the 2015-2024 slope analysis, this work showed that there is still a difference between observed and physical decay rates 4 years after the accident.

REFERENCES

Agency for Toxic Substances and Disease Registry (US); (2004), CHEMICAL, PHYSICAL, and RADIOLOGICAL INFORMATION. https://www.ncbi.nlm.nih.gov/books/NBK594672/

Arai, H., Fujita, K., Yoshita, H., & Taniguchi, K. (2021). Differences in the proportional contributions of particulate radiocesium sources under base- and high-flow river conditions: A case study in the central region of Fukushima. Water, 13(21), 3021. https://doi.org/10.3390/w13213021

Chartin C, Evrard O, Onda Y, Patin J, Lefèvre, I, Ottle, C, Ayrault S, Lepage H, Bonté, P. (2013). Tracking the early dispersion of contaminated sediment along rivers draining the Fukushima radioactive pollution plume. Anthropocene. 1.10.1016/j.ancene.2013.07.001.

Evrard O, Chartin C, Onda Y, Patin J, Lepage H, Lefèvre I, Ayrault S, Ottlé C, Bonté P. (2013) Evolution of radioactive dose rates in fresh sediment deposits along coastal rivers draining Fukushima contamination plume. Sci Rep. 2013 Oct 29;3:3079. doi: 10.1038/srep03079. PMID: 24165695; PMCID: PMC3810654.

Evrard, O., Laceby, J., Onda, Y., Wakiyama Y., Jaegler H., Lefevre I., (2016). Quantifying the dilution of the radiocesium contamination in Fukushima coastal river sediment (2011–2015). Sci Rep 6, 34828 https://doi.org/10.1038/srep34828

Evrard, O., Chartin, C., Laceby, J. P., Onda, Y., Wakiyama, Y., Nakao, A., Cerdan, O., Lepage, H., Jaegler, H., Vandromme, R., Lefèvre, I., & Bonté, P. (2021). Radionuclide contamination in flood sediment deposits in the coastal rivers draining the main radioactive pollution plume of Fukushima Prefecture, Japan (2011–2020). Earth System Science Data, 13, 2555–2560. https://doi.org/10.5194/essd-13-2555-2021

Geospatial Information Authority of Japan. (2025). Japan Digital Elevation Model. https://service.gsi.go.jp

Harada KH, Niisoe T, Imanaka M, Takahashi T, Amako K, Fujii Y, Kanameishi M, Ohse K, Nakai Y, Nishikawa T, Saito Y, Sakamoto H, Ueyama K, Hisaki K, Ohara E, Inoue T, Yamamoto K, Matsuoka Y, Ohata H, Toshima K, Okada A, Sato H, Kuwamori T, Tani H, Suzuki R, Kashikura M, Nezu M, Miyachi Y, Arai F, Kuwamori M, Harada S, Ohmori A, Ishikawa H, Koizumi A. Radiation dose rates now and in the future for residents neighboring restricted areas of the Fukushima Daiichi Nuclear Power Plant. Proc Natl Acad Sci U S A. 2014 Mar 11;111(10):E914-23. doi: 10.1073/pnas.1315684111. Epub 2014 Feb 24. PMID: 24567380; PMCID: PMC3956155.

Ikehara, R., Suetake, M., Komiya, T., Furuki, G., Ochiai, A., Yamasaki, S., Bower, W. R., Law, G. T. W., Ohnuki, T., Grambow, B., Ewing, R. C., & Utsunomiya, S. (2018). Novel method of quantifying radioactive cesium-rich microparticles (CsMPs) in the environment from the

Fukushima Daiichi nuclear power plant. Environmental Science & Technology, 52(11), 6390–6398. https://doi.org/10.1021/acs.est.7b06693

International Atomic Energy Agency. (n.d.). Weapons of mass destruction: Fission product yields. International Atomic Energy Agency. https://www-nds.iaea.org/wimsd/fpyield.htm (Accessed November 30, 2025).

International Commission on Radiological Protection. (2007). The 2007 recommendations of the International Commission on Radiological Protection (ICRP Publication 103). Annals of the ICRP, 37(2–4). https://journals.sagepub.com/doi/pdf/10.1177/ANIB_37_2-4

IUSS Working Group WRB. (2022). World Reference Base for Soil Resources. International Soil Classification System for Naming Soils and Creating Legends for Soil Maps (4th ed.). Vienna, Austria.

Iwata, H., Shiotsu, H., Kaneko, M., & Utsunomiya, S. (2012). Nuclear accidents in Fukushima, Japan, and exploration of effective decontaminant for the 137Cs-contaminated soils. IntechOpen. https://doi.org/10.5772/33540

Japan Meteorological Agency. (2025). Historical Weather Data, Miyagi Prefecture Marumori. https://www.data.jma.go.jp/stats/etrn/index.php?prec_no=34&block_no=1220&year=&month=&day=&view=

Johnson, T. E. (2025). Introduction to Health Physics (6th ed.). McGraw-Hill Education.

Kato, H., Onda, Y. (2018) Determining the initial Fukushima reactor accident-derived cesium-137 fallout in forested areas of municipalities in Fukushima Prefecture. Journal of Forest Research 23(2), 73-84. DOI: 10.1080/13416979.2018.1448566

Ministry of the Environment (2024). Behavior of Radioactive Cesium in the Environment: Adsorption and Fixation by Clay Mineral. https://www.env.go.jp/en/chemi/rhm/basic-info/1st/04-04-03.html

Ministry of Environment. (n.d.). Radioactive Material Monitoring in Fukushima Prefecture and Surrounding Areas. https://www.env.go.jp/jishin/monitoring/results_r-pw.html (Accessed January 14, 2025).

Ministry of Land, Infrastructure Transport and Tourism (2025) Fukushima Abukuma River Daily Water Level. https://www1.river.go.jp/cgi-bin/SrchWaterData.exe?ID=302011282218100&KIND=3&PAGE=0

Ministry of Land, Infrastructure Transport and Tourism. (2025). Marumori Abukuma River Daily Water Level. https://www1.river.go.jp/cgibin/SrchWaterData.exe?ID=302011282206080&KIND=3&PAGE=0

National Library of Medicine (n.d.) Toxicological Profile for Cesium. https://www.ncbi.nlm.nih.gov/books/NBK594667/ (Accessed March 12, 2026)

NCRP. (2006). NCRP Report No. 154: Cesium-137 in the environment: Radioecology and approaches to assessment and management: Recommendations of the National Council on Radiation Protection and Measurements. National Council on Radiation Protection and Measurements.

National Nuclear Data Center, Information Extracted from the NuDat Database, https://www.nndc.bnl.gov/nudat (Accessed December 20, 2025).

Nishikiori T., Suzuku S. (2017). Radiocesium decontamination of a riverside in Fukushima, Japan. Journal of Environmental Radioactivity, 177, 189–198. https://doi.org/10.1016/j.jenvrad.2017.07.003

Onda, Y., Taniguchi, K., Yoshimura, K., et al. (2020). Radionuclides from the Fukushima Daiichi Nuclear Power Plant in terrestrial systems. Nature Reviews Earth & Environment, 1, 644-660. https://doi.org/10.1038/s43017-020-0099-x

Sakaguchi, A., Tanaka, K., Iwatani, H., Chiga, H., Fan, Q., Onda, Y., & Takahashi, Y. (2015). Size distribution studies of 137Cs in river water in the Abukuma Riverine system following the Fukushima Dai-ichi Nuclear Power Plant accident. Journal of Environmental Radioactivity, 139, 379–389. https://doi.org/10.1016/j.jenvrad.2014.05.011

.

Somboon, S., Kavasi, N., Sahoo, S. K., Inoue, K., Arae, H., Tsuruoka, H., Shimizu, H., & Fukushi, M. (2018). Radiocesium and 40K distribution of river sediments and floodplain deposits in the Fukushima exclusion zone. Journal of Environmental Radioactivity, 195, 40–53. https://doi.org/10.1016/j.jenvrad.2018.09.003

Takahiro N., Takuya O., Hiroki H., and Kazuyuki S. (2021). Impact of Extreme Typhoon Events on the Fluvial Discharge of Particulate Radiocesium in Fukushima Prefecture, Journal of Coastal Research 114(sp1), 310-314. https://doi.org/10.2112/JCR-SI114-063.1

Taniguchi, K., Onda, Y., Smith, H. G., Blake, W., Yoshimura, K., Yamashiki, Y., Kuramoto, T., & Saito, K. (2014). Transport and redistribution of radiocesium in Fukushima fallout through rivers. Environmental Science & Technology, 48(18), 10244–10250. https://doi.org/10.1021/es502912y

Taniguchi, K., Onda, Y., Smith, H. G., Blake, W. H., Yoshimura, K., Yamashiki, Y., Kuramoto, T., & Saito, K. (2019). Transport and redistribution of radiocesium in Fukushima fallout through rivers. Environmental Science & Technology, 53(21), 12339–12347. https://doi.org/10.1021/acs.est.9b02890

Taniguchi, K., Onda, Y., Smith, H.G. et al. Dataset on the 6-year radiocesium transport in rivers near Fukushima Daiichi nuclear power plant. Sci Data 7, 433 (2020). https://doi.org/10.1038/s41597-020-00774-x

Tatsuno T, Hamamoto S, Nihei N, Nishimura T. (2022). Mechanisms controlling vertical migration of Fukushima-derived radiocesium in soils. Science of the Total Environment, 812, 152446. https://doi.org/10.1016/j.scitotenv.2021.152446

World Nuclear Association. (2024). Fukushima Daiichi accident. World Nuclear Association. https://world-nuclear.org/information-library/safety-and-security/safety-of-plants/fukushima-daiichi-accident

Yamazaki D., S. Togashi, A. Takeshima, T. Sayama (2018). High-Resolution Flow Direction Map of Japan. Journal of Japan Society of Civil Engineers (B1), vol.74(5), I_163-I_168

Yáñez, J., Kuznetsov, M., & Souto-Iglesias, A. (2015). An analysis of the hydrogen explosion in the Fukushima-Daiichi accident. International Journal of Hydrogen Energy, 40(25), 8261–8280. https://doi.org/10.1016/j.ijhydene.2015.03.154

APPENDIX

A: Location Data:

Site Latitude and Longitude, River

No.	Water Area	Location	Municipality	Real Latt	Real Long
1	Jizogawa River	Hamahata Bridge	Shinchi Town	37.852450	140.945717
2	Koizumi River	Koizumi Bridge	Soma City	37.805567	140.920700
3	Koizumi River	Hyakken Bridge	Soma City	37.809117	140.955633
4	Uda River	Horisaka Bridge	Soma City	37.776817	140.887683
5	Uda River	Hyakken Bridge	Soma City	37.808383	140.956267
6	Mano River	Ochiai Bridge	Minamisoma City	37.705433	140.961983
7	Mano River	Majima Bridge	Minamisoma City	37.687967	141.004667
8	Niida River	Kusano	Iitate Village	37.694950	140.747067
9	Niida River	Komiya	Iitate Village	37.662500	140.792783
10	Niida River	Kidouchi Bridge	Minamisoma City	37.668333	140.931700
11	Niida River	Sakekawa Bridge	Minamisoma City	37.642950	141.014000

12	Ota River	Ishiwatado Bridge	Minamisoma City	37.598667	140.921683
13	Ota River	Yagawara Bridge	Minamisoma City	37.603533	140.956667
14	Ota River	Masuda Bridge	Minamisoma City	37.604133	140.986200
15	Ota River	JR Tetsudo Bridge	Minamisoma City	37.600150	140.994300
16	Ota River	Maruyama Bridge	Minamisoma City	37.590650	141.024500
17	Odaka River	Shimokawara Bridge	Minamisoma City	37.550400	140.969900
18	Odaka River	Zencho Bridge	Minamisoma City	37.567400	140.995617
19	Odaka River	Hatsukara Bridge	Minamisoma City	37.570233	141.024017
20	Ukedo River	Murohara Bridge	Namie Town	37.508217	140.931717
21	Ukedo River	Ukedo Bridge	Namie Town	37.487867	141.029033
22	Furumichi River	Before the confluence with Takase River (Miyakoji-machi furumichishitadaira)	Tamura City	37.463854	140.818649
23	Takase River	Keio Bridge	Namie Town	37.488483	141.010583

24	Maeda River	National Route 6, west	Futaba Town	37.452917	141.008900
25	Maeda River	Nakahama Bridge	Namie Town	37.461333	141.030983
26	Kumagawa River	National Route 6, west	Okuma Town	37.395500	140.966717
27	Kumagawa River	Mikuma Bridge	Okuma Town	37.384000	141.027483
28	Tomioka River	Nabekura Bridge	Kawauchi Village	37.359159	140.940799
29	Tomioka River	Sakaigawa Bridge	Kawauchi Village	37.362640	140.947365
30	Tomioka River	National Route 6, west	Tomioka Town	37.341863	141.004800
31	Tomioka River	Kobama Bridge	Tomioka Town	37.340738	141.022222
32	Idegawa River	Motogama Bridge	Naraha Town	37.287033	141.002467
33	Kawauchi River	Before the confluence with Kidogawa River (Futamatabashi Bridge)	Kawauchi Village	37.336136	140.847227

34	Kidogawa River	Nishiyama Bridge	Kawauchi Village	37.317933	140.834867
35	Kidogawa River	Nagatoro Bridge	Naraha Town	37.276583	140.976650
36	Kidogawa River	Kidokawa Bridge	Naraha Town	37.275083	140.992933
37	Asami River	Boda Bridge	Hirono Town	37.206183	141.000100
38	Ohisa River	Kageiso Bridge	Iwaki City	37.145100	140.999767
39	Kohisa River	Rengo Bridge	Iwaki City	37.142667	140.989167
40	Niida River	Kasumida Bridge	Iwaki City	37.111417	140.953017
41	Niida River	Matsuba Bridge	Iwaki City	37.094517	140.973850
42	Natsui River	Kitanouchi Bridge	Ono Town	37.242800	140.663983
43	Natsui River	Kyudayu Bridge	Iwaki City	37.084650	140.871300
44	Natsui River	Rokujumai Bridge	Iwaki City	37.060200	140.949300
45	Yoshima River	Iwaanatsuri Bridge	Iwaki City	37.065533	140.837933

46	Yoshima River	Before the confluence with Natsui River	Iwaki City	37.065933	140.888633
47	Fujiwara River	Shima Bridge	Iwaki City	36.974850	140.878833
48	Fujiwara River	Minato-ohashi Bridge	Iwaki City	36.936200	140.872267
49	Samegawa River	Idosawa Bridge	Iwaki City	36.937933	140.732750
50	Samegawa River	Samegawa Bridge	Iwaki City	36.912383	140.793500
51	Shitoki River	Komuro Bridge	Iwaki City	36.924683	140.701750
52	Binda River	Kobana Bridge	Iwaki City	36.887767	140.773283
53	Binda River	Binda Bridge	Iwaki City	36.891550	140.794167
54	Abukuma River	Habuto Bridge	Nishigo Village	37.^{134}343	140.146748
55	Abukuma River	Tamachi-ohashi Bridge	Shirakawa City	37.159585	140.159845

56	Yanta River	Before the confluence with Abukuma River	Shirakawa City	37.128470	140.169885
57	Yashiro River	Yashirogawa Bridge	Tanagura Town	37.060958	140.370038
58	Kitasu River	Yanagi Bridge	Hirata Village	37.188992	140.519835
59	Kitasu River	Nekonaki Bridge	Ishikawa Town	37.136550	140.435183
60	Yashiro River	Oji Bridge	Ishikawa Town	37.141850	140.414017
61	Abukuma River	Kawanome Bridge	Tamakawa Village/ Yabuki Town	37.191100	140.399817
62	Abukuma River	Emochi Bridge	Sukagawa City	37.299767	140.388450
63	Shakado River	Sukagawa City water intake point	Sukagawa City	37.287500	140.352750
64	Shakado River	Before the confluence with Abukuma River	Sukagawa City	37.300633	140.379983
65	Sasahara River	Shinbashi Bridge	Koriyama City	37.365950	140.378700

66	Yatagawa River	Yatagawa Bridge	Koriyama City	37.382333	140.405250
67	Otakine River	Funehiki Bridge	Tamura City	37.440883	140.562283
68	Otakine River	Before the confluence with Abukuma River	Koriyama City	37.389383	140.409600
69	Ouse River	Before the confluence with Babagawa River	Koriyama City	37.419389	140.339806
70	Ouse River	Makunouchi Bridge	Koriyama City	37.411100	140.372017
71	Ouse River	Before the confluence with Abukuma River	Koriyama City	37.405472	140.406028
72	Abukuma River	Akutsu Bridge	Koriyama City	37.406883	140.407833
73	Gohyaku River	After the confluence with Ishimushiro River	Koriyama City	37.480306	140.305444
74	Gohyaku River	Kamisekishita Bridge	Motomiya City	37.472417	140.362444

75	Gohyaku River	Before the confluence with Abukuma River	Motomiya City	37.487317	140.403450
76	Abukuma River	Takada Bridge	Nihonmatsu City	37.584217	140.452400
77	Kuchibuto River	Kuchibutogawa Bridge	Nihonmatsu City	37.560167	140.658467
78	Utsushi River	Osegawa Bridge	Nihonmatsu City	37.592583	140.516083
79	Mizuhara River	Getouchi Bridge	Fukushima City	37.644367	140.495517
80	Megami River	Tsurumaki Bridge	Fukushima City	37.652900	140.532233
81	Abukuma River	Horai Bridge	Fukushima City	37.722750	140.471950
82	Nigori River	Before the confluence with Omori River	Fukushima City	37.738200	140.465883
83	Arakawa River	Hinokura Bridge	Fukushima City	37.697833	140.344933
84	Sukawa River	Sukawa Bridge	Fukushima City	37.752583	140.380000

85	Arakawa River	Before the confluence with Abukuma River	Fukushima City	37.744800	140.464383
86	Matsukawa River	Before the confluence with Abukuma River	Fukushima City	37.778833	140.485167
87	Hattanda River	Hattanda Bridge	Fukushima City	37.792917	140.491100
88	Surikami River	Totsuna Bridge	Fukushima City	37.828150	140.455117
89	Surikami River	Before the confluence with Abukuma River	Fukushima City	37.810367	140.497950
90	Abukuma River	Taisho Bridge	Date City	37.830767	140.519200
91	Hirose River	Tatenokoshi Bridge	Kawamata Town	37.655700	140.606367
92	Hirose River	Jizogawara Bridge	Date City	37.775300	140.611367
93	Oguni River	Before the confluence with Hirose River	Date City	37.808017	140.602717

94	Hirose River	Before the confluence with Abukuma River	Date City	37.864867	140.600500
95	Kurokawa River	Prefectural border with Tochigi	Shirakawa City	37.087267	140.154700
96	Kujigawa River	Matsuoka Bridge	Tanagura Town	36.963767	140.404000
97	Kujigawa River	Takachihara Bridge	Yamatsuri Town	36.843950	140.386233

B: Matching Key for Locations in 2011/early 2012 and the New Locations starting from Mid 2012

New Point ID	Matched RiverBank Point ID
1	1
2	2
3	3
4	4
5	5
6	6
7	7

8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	No match
18	17
19	18
20	19
21	20
22	No match
23	21
24	22
25	23

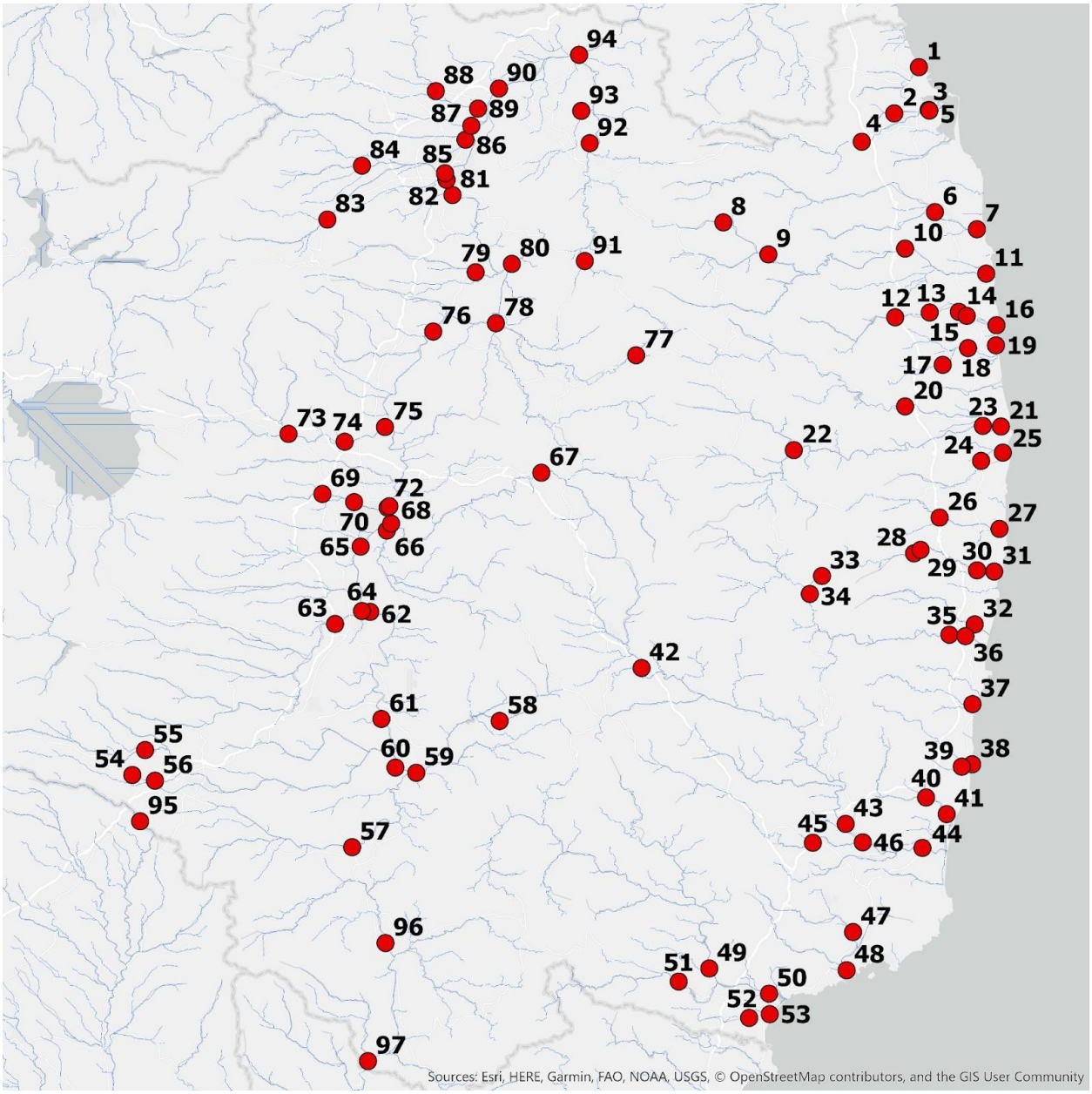
26	24
27	25
28	No match
29	No match
30	26
31	27
32	28
33	No match
34	29
35	30
36	31
37	32
38	33
39	34
40	35
41	36
42	37
43	38

44	39
45	40
46	41
47	42
48	43
49	44
50	45
51	46
52	47
53	48
54	No match
55	No match
56	No match
57	No match
58	No match
59	54
60	55
61	56

62	57
63	58
64	59
65	60
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92	87
93	88
94	89
95	90
96	91
97	92

C: Overall Sites Map



D: Excel VBA Macro for Date Separation (Shown for Event 1):

```
Sub ConsolidateDateRangeRows_ValuesOnly()
    Dim ws As Worksheet
    Dim destWs As Worksheet
    Dim destRow As Long
    Dim i As Long
    Dim lastRow As Long
    Dim dateCell As Range
    Dim startDate As Date
    Dim endDate As Date
    Dim colCount As Long

    startDate = DateValue("2/1/2012")
    endDate = DateValue("6/20/2012")

    On Error Resume Next
    Set destWs = ThisWorkbook.Worksheets("FilteredData")
    If destWs Is Nothing Then
        Set destWs = ThisWorkbook.Worksheets.Add
        destWs.Name = "FilteredData"
    Else
        destWs.Cells.Clear
    End If
    On Error GoTo 0

    destRow = 1

    For i = 1 To 97
        On Error Resume Next
```

```
        Set ws = ThisWorkbook.Worksheets(CStr(i))
        On Error GoTo 0

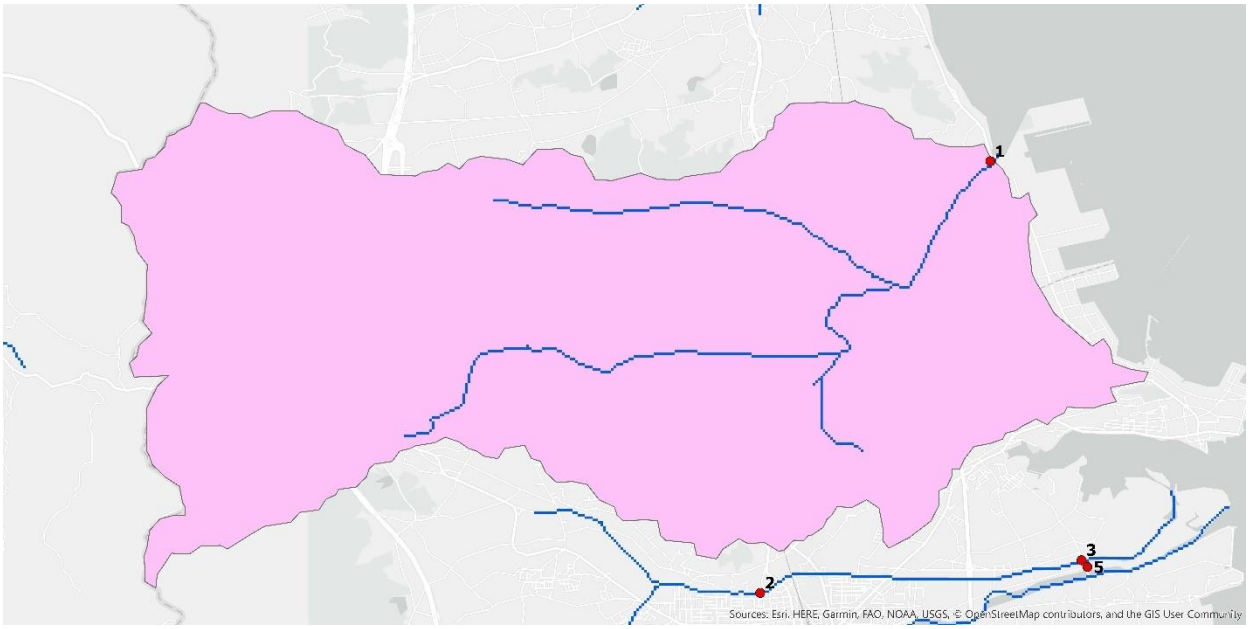
        If Not ws Is Nothing Then
            lastRow = ws.Cells(ws.Rows.Count, "C").End(xlUp).Row

            For Each dateCell In ws.Range("C1:C" & lastRow)
                If IsDate(dateCell.Value) Then
                    If dateCell.Value >= startDate And dateCell.Value <= endDate Then
                        colCount = ws.Cells(dateCell.Row,
ws.Columns.Count).End(xlToLeft).Column
                        destWs.Cells(destRow, 1).Resize(1, colCount).Value =
ws.Cells(dateCell.Row, 1).Resize(1, colCount).Value
                        destRow = destRow + 1
                    End If
                End If
            Next dateCell
        End If

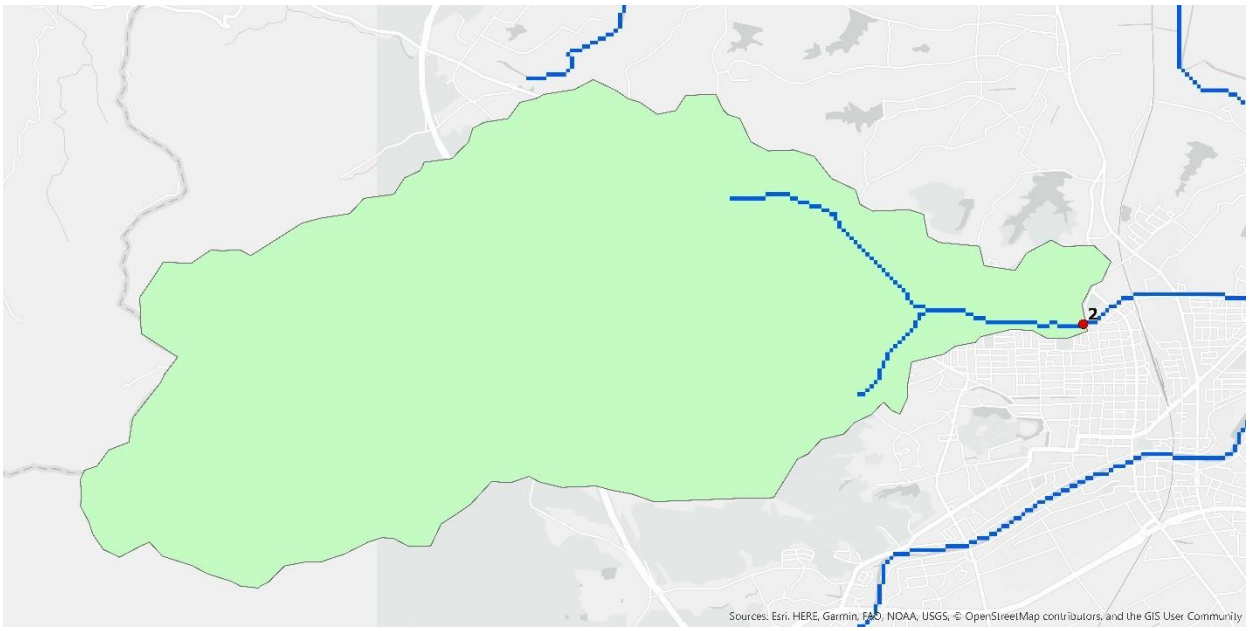
        Set ws = Nothing
    Next i

    MsgBox "done", vbInformation
End Sub
```

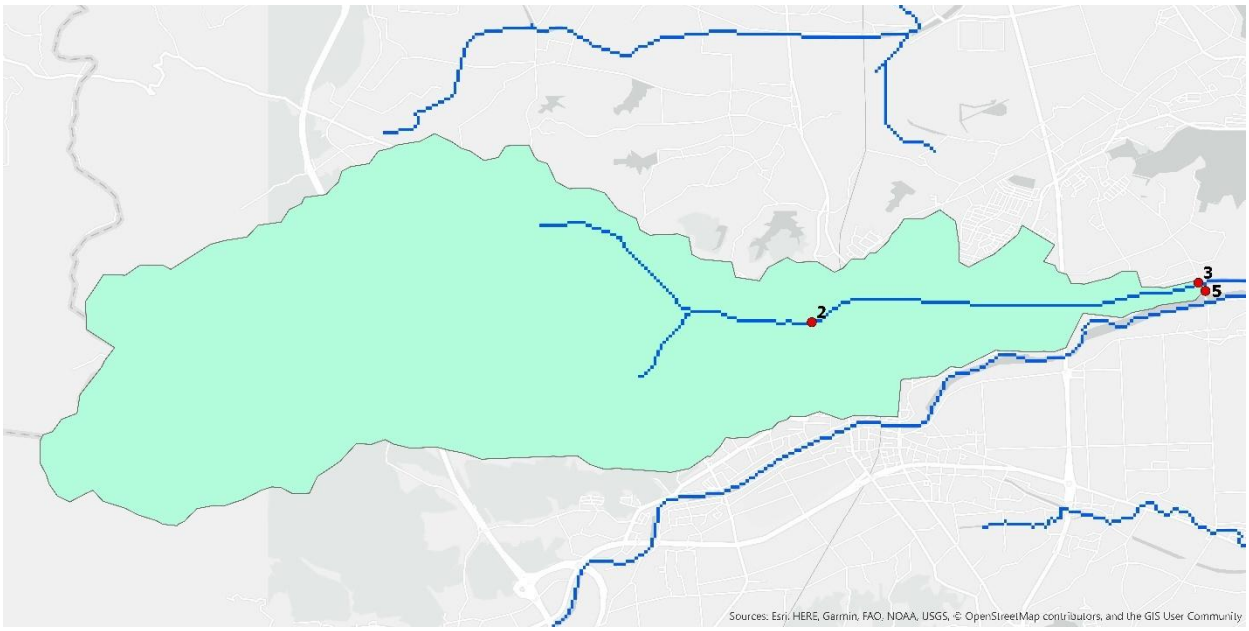
E: Watershed of Each Sites 1-97 (In Order):



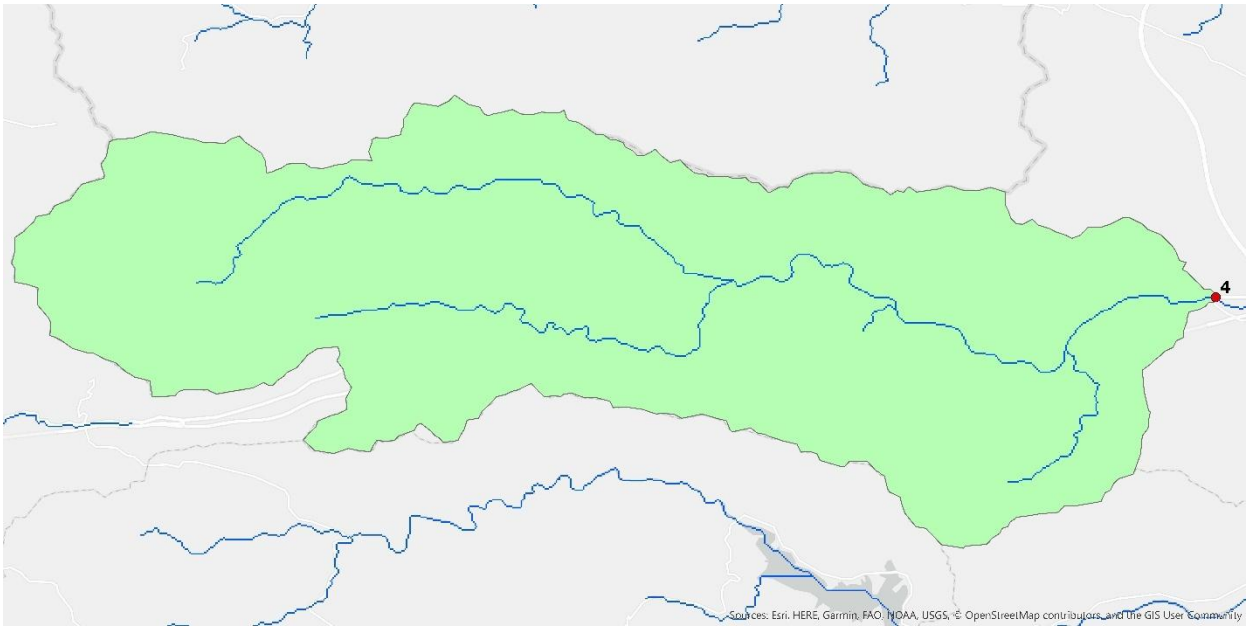
1 Jizogawa River Hamahata Bridge Shinchi Town



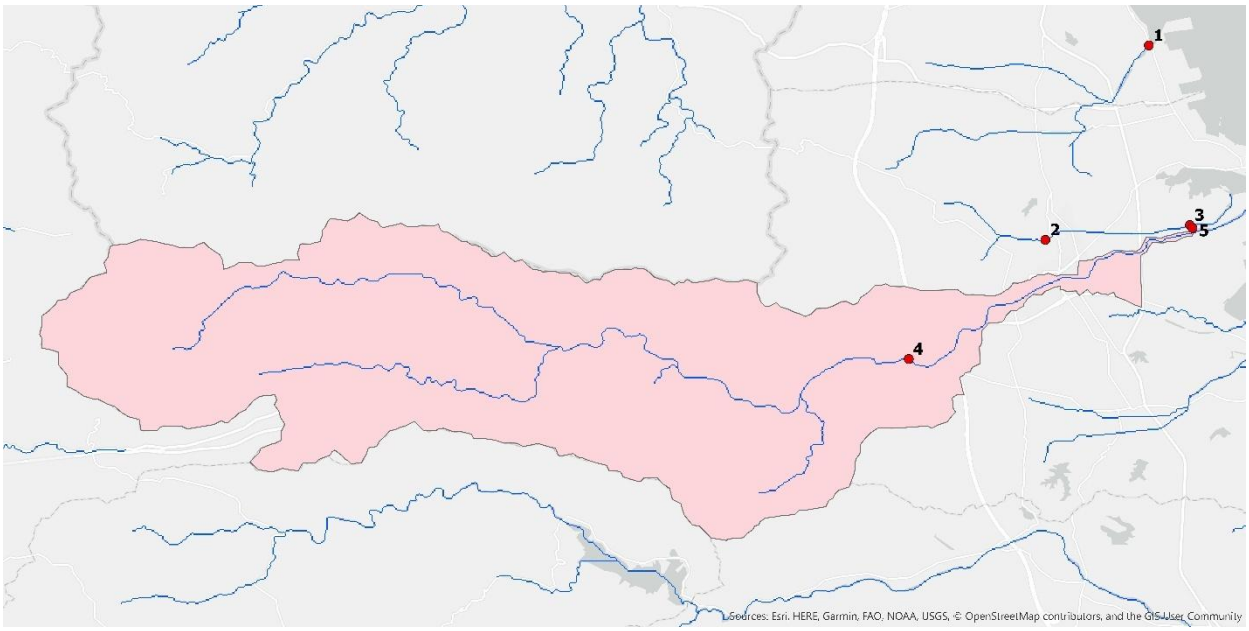
2 Koizumi River Koizumi Bridge Soma City



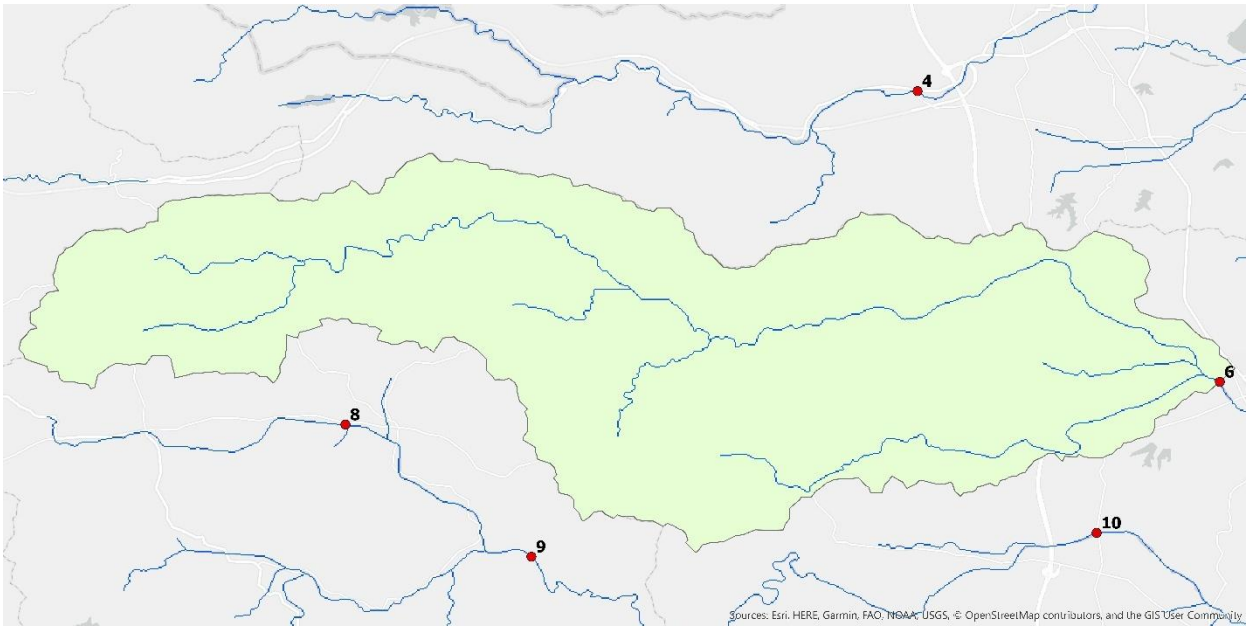
3 Koizumi River Hyakken Bridge Soma City



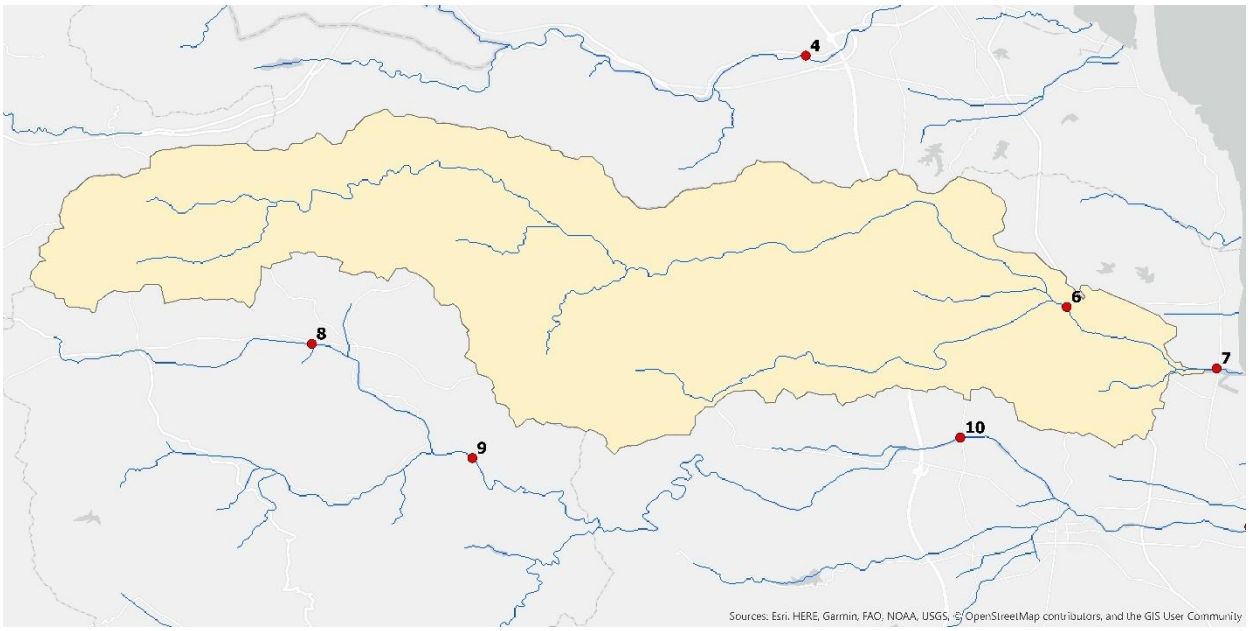
4 Uda River Horisaka Bridge Soma City



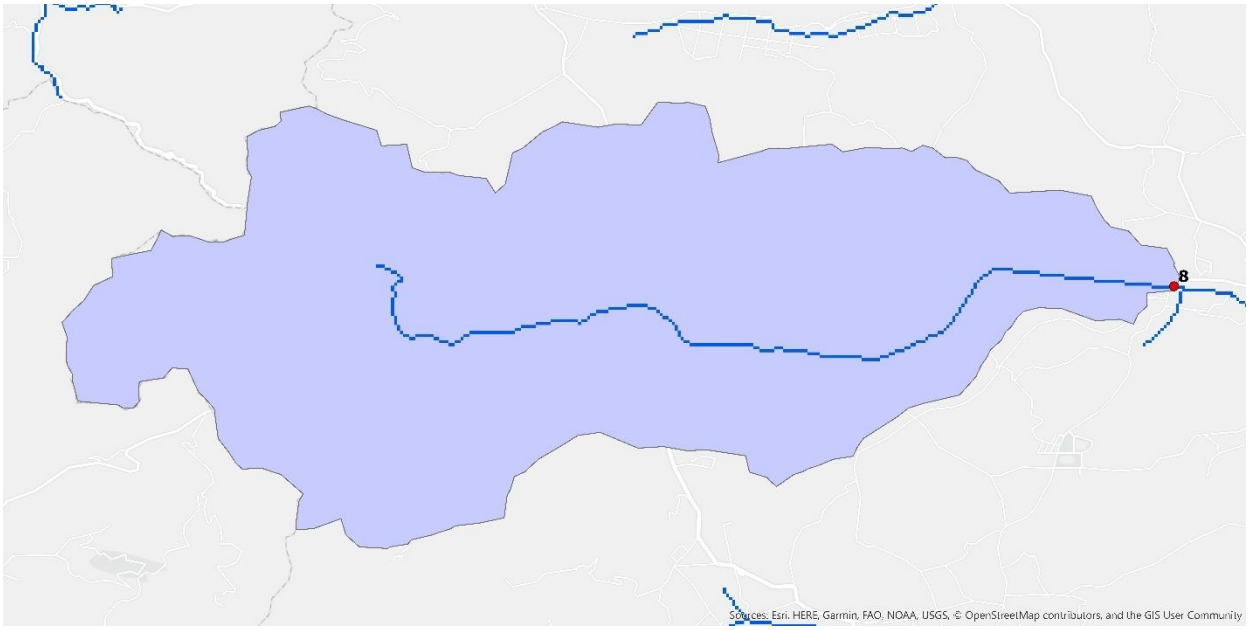
5 Uda River Hyakken Bridge Soma City



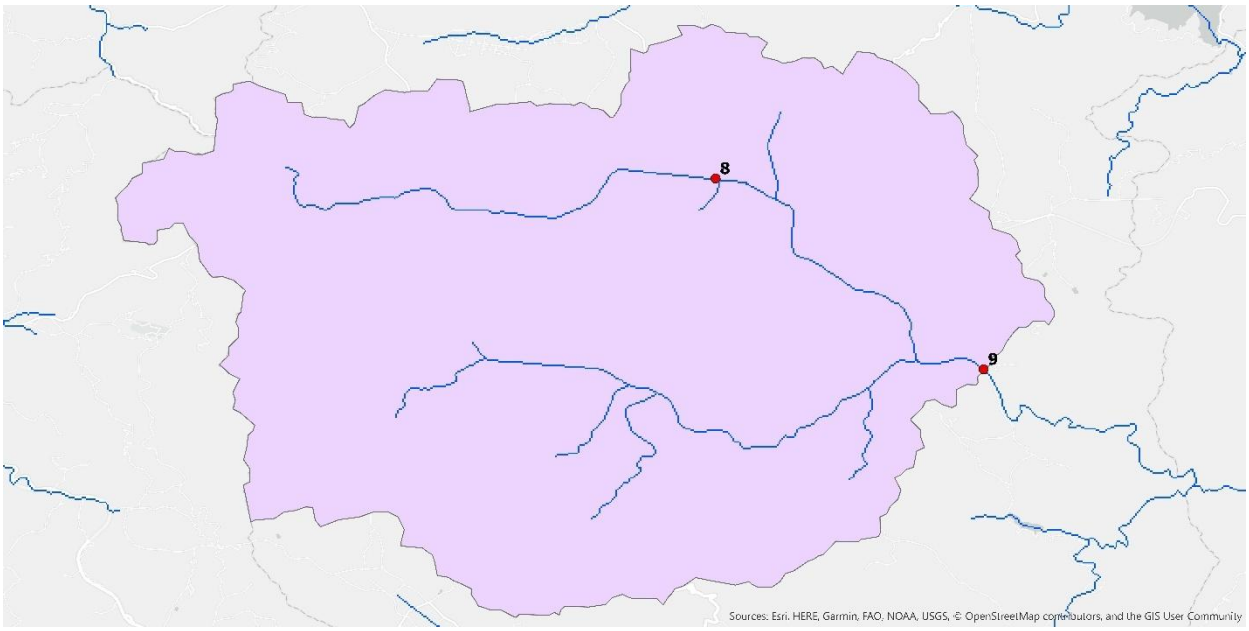
6 Mano River Ochiai Bridge Minamisoma City



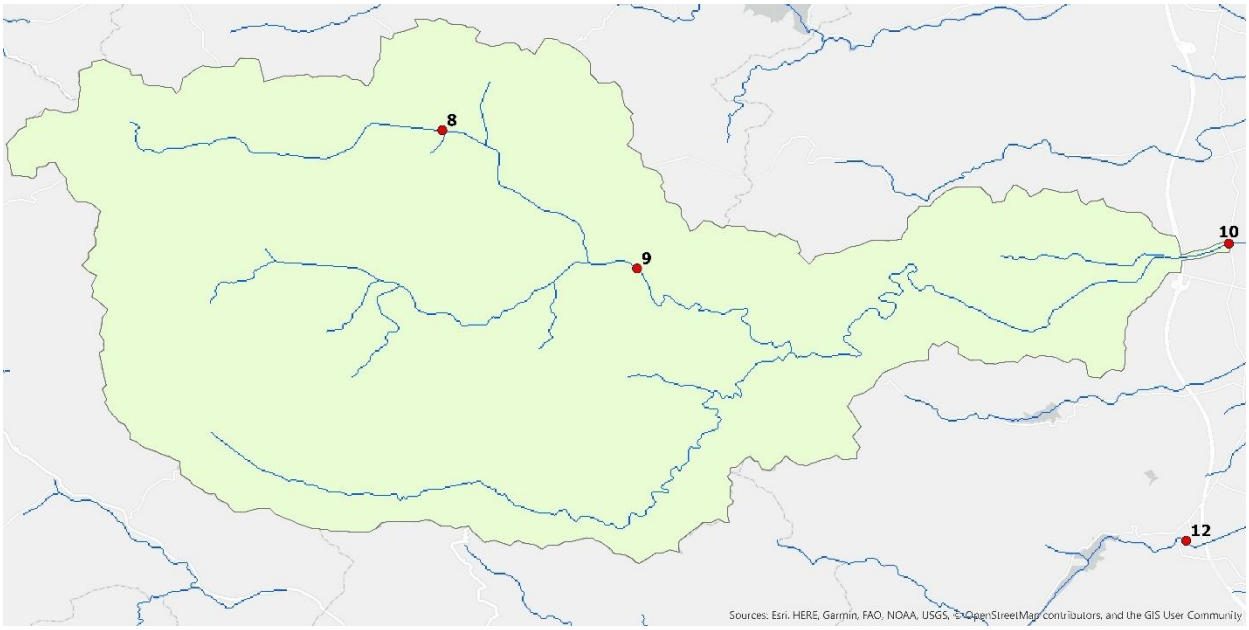
7 Mano River Majima Bridge Minamisoma City



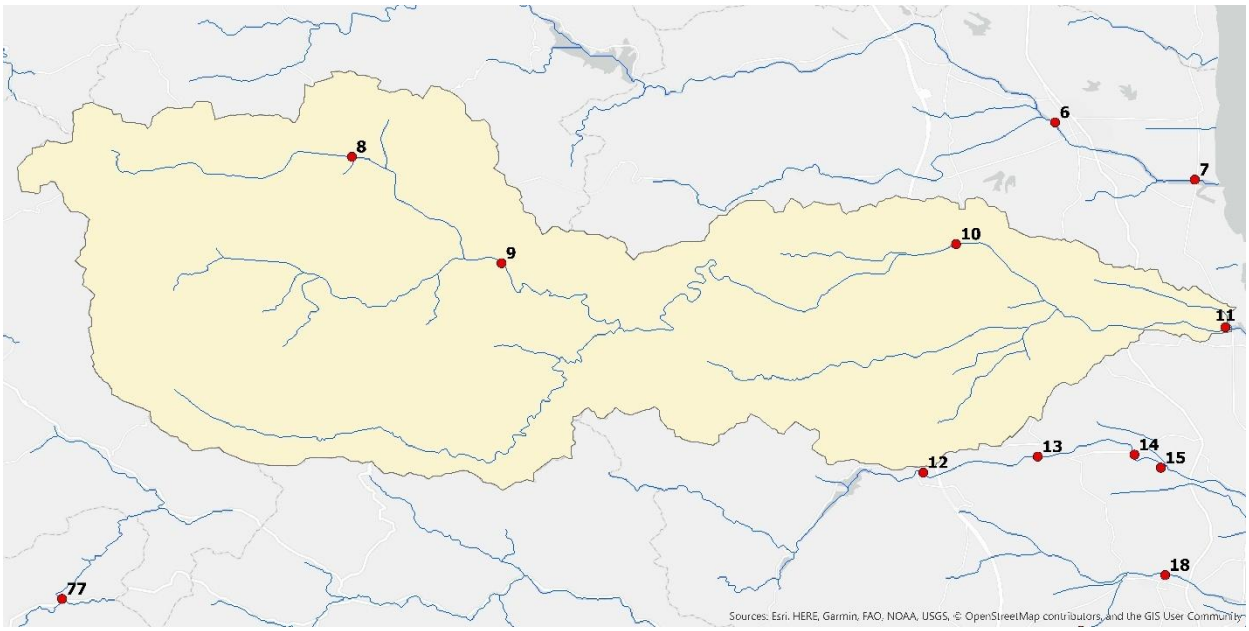
8 Niida River Kusano Iitate Village



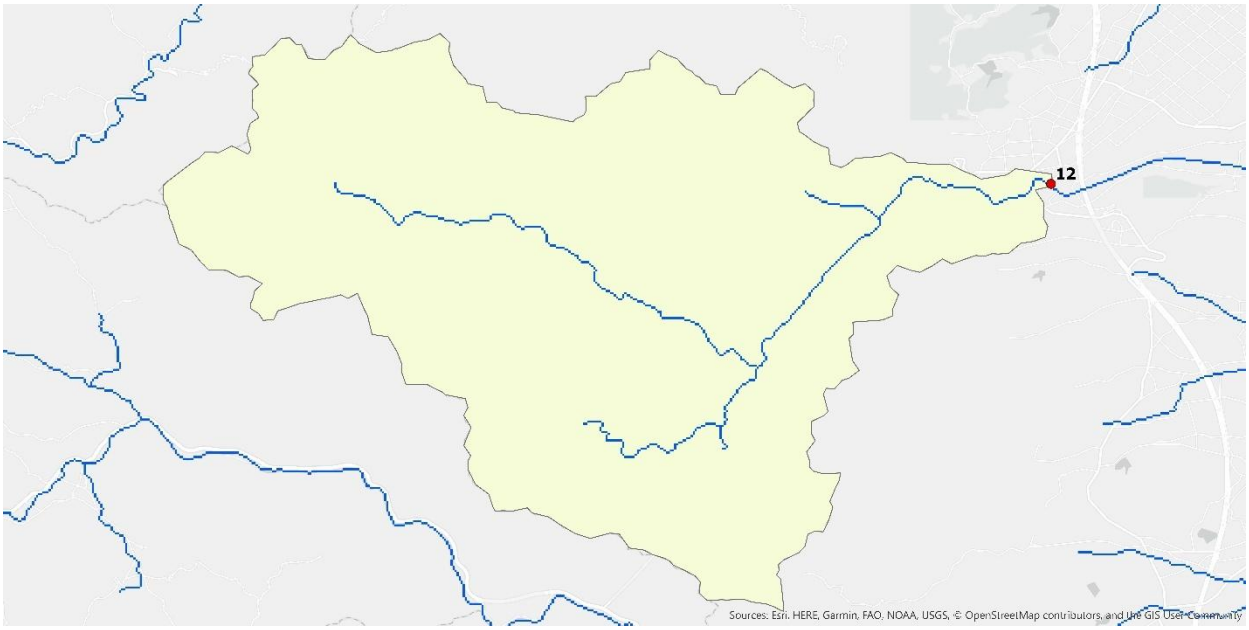
9 Niida River Komiya Iitate Village



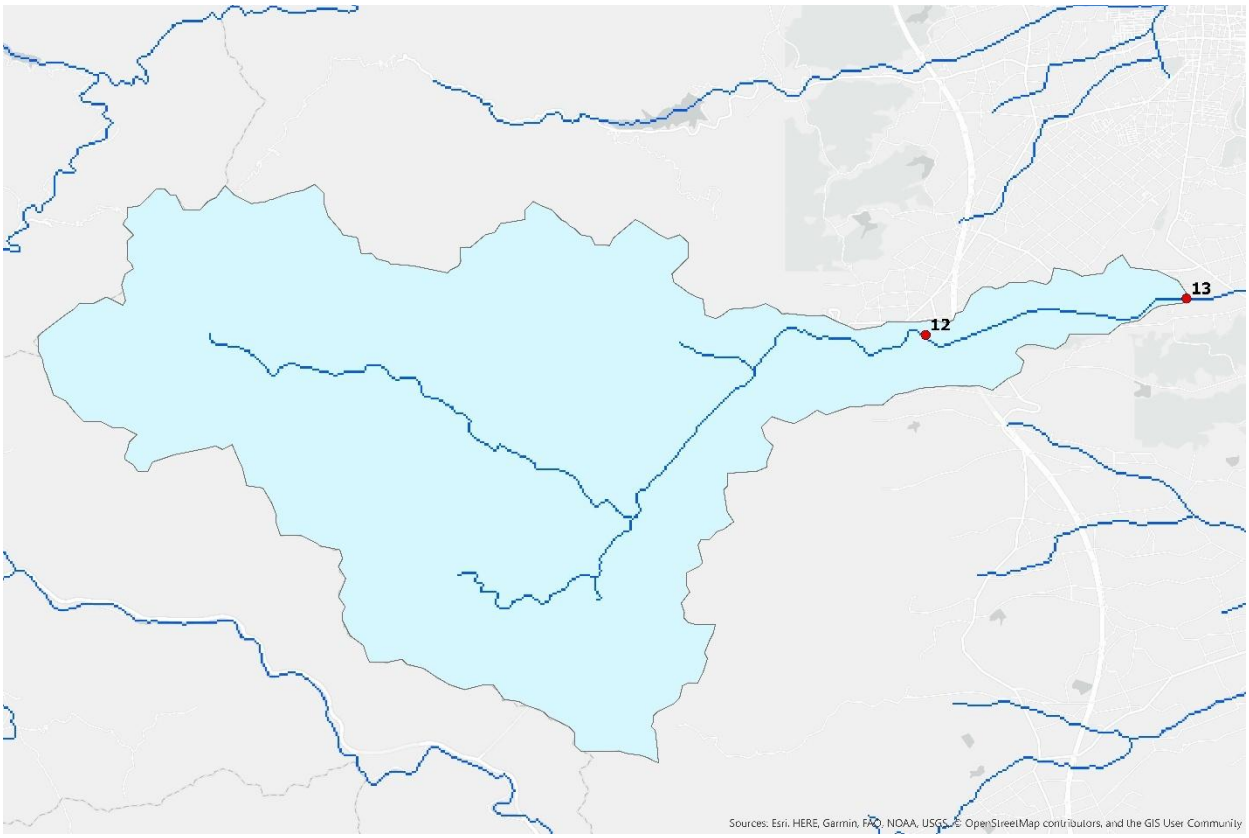
10 Niida River Kidouchi Bridge Minamisoma City



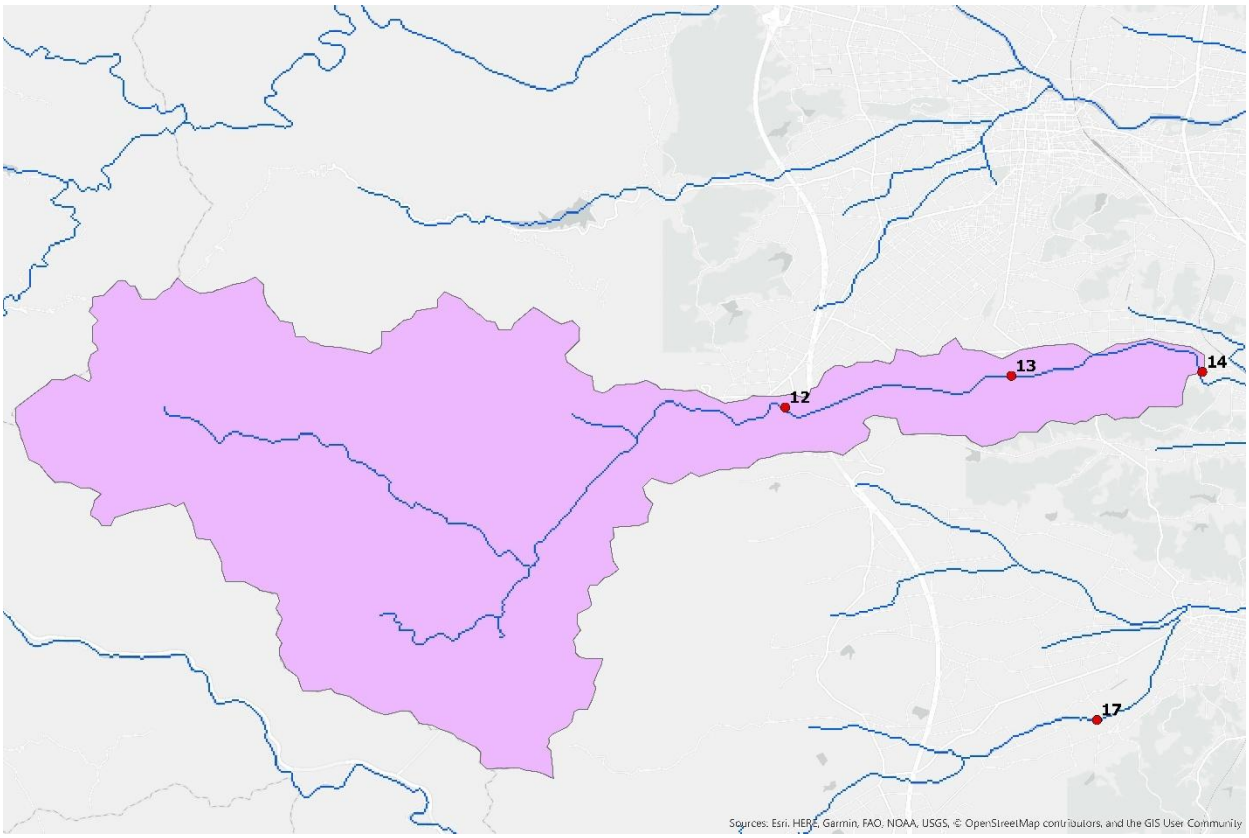
11 Niida River Sakekawa Bridge Minamisoma City



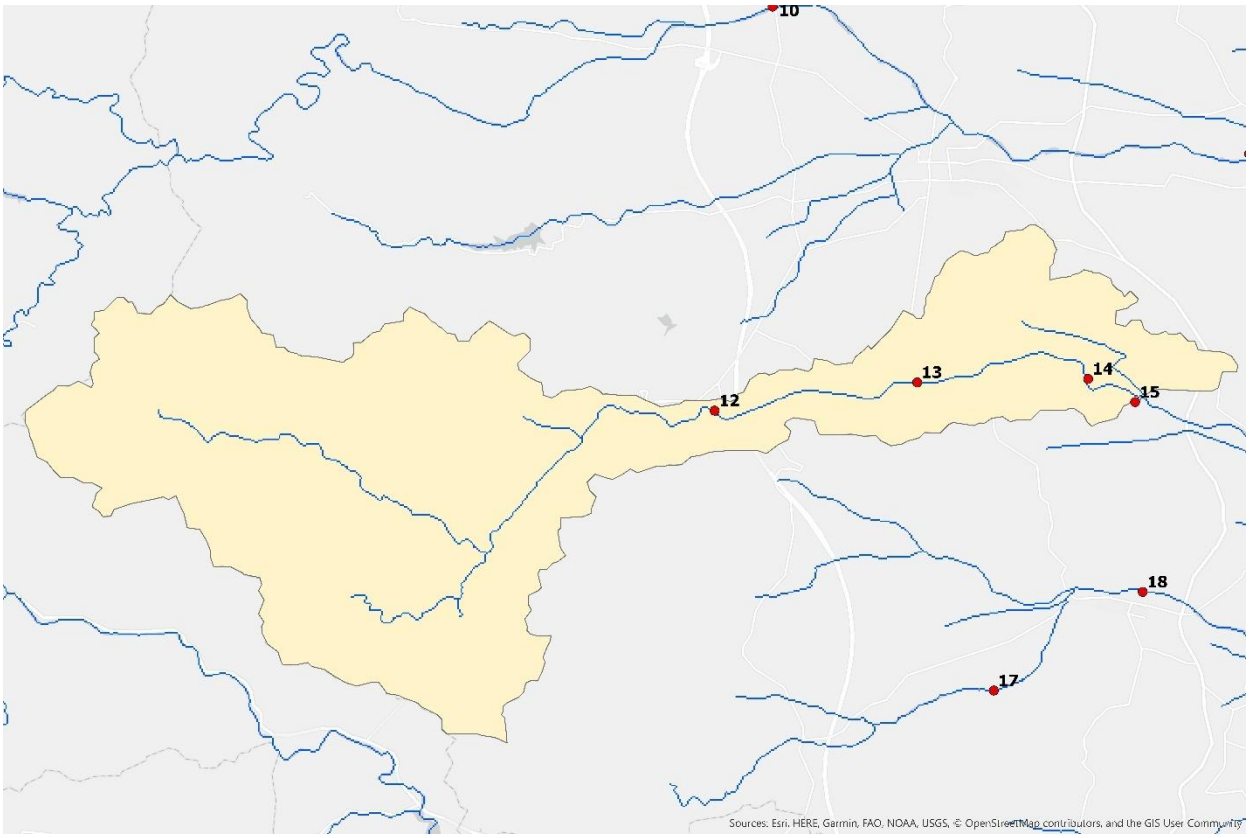
12 Ota River Ishiwatado Bridge Minamisoma City



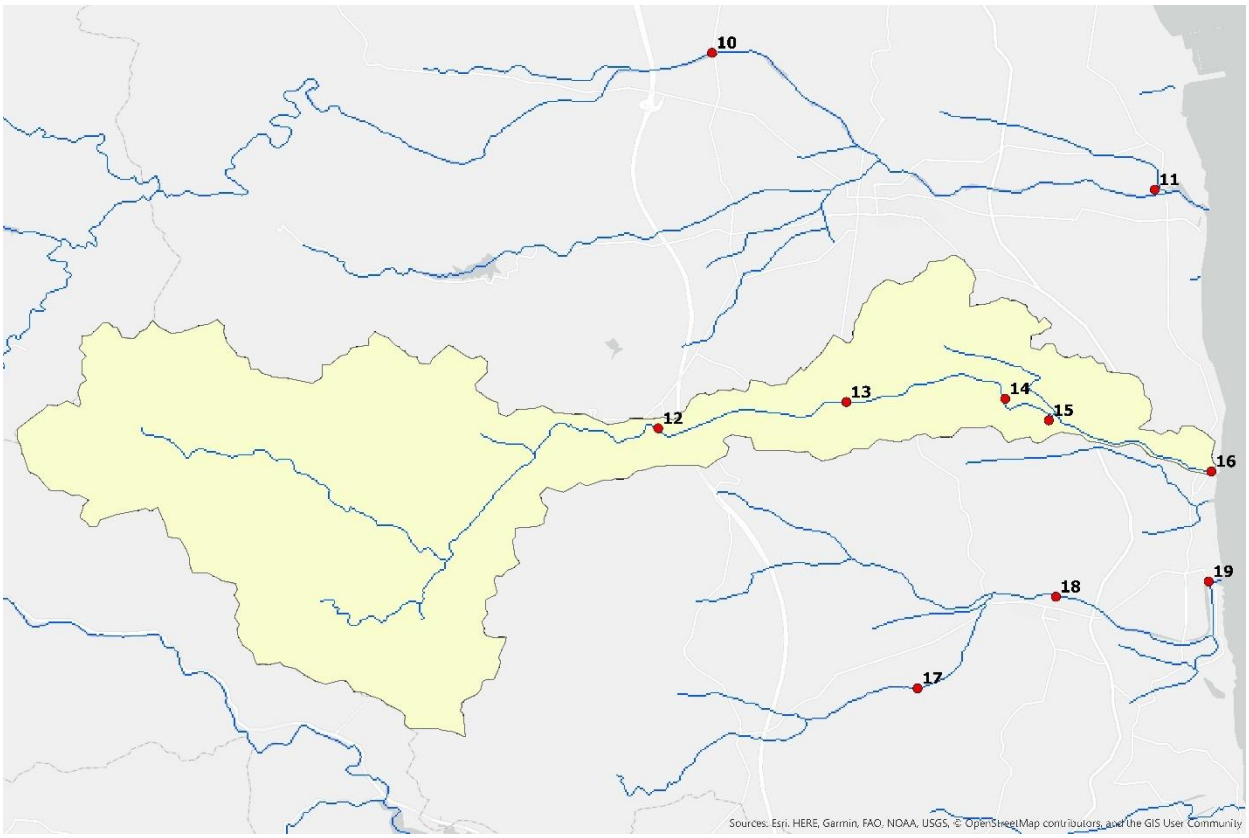
13 Ota River Yagawara Bridge Minamisoma City



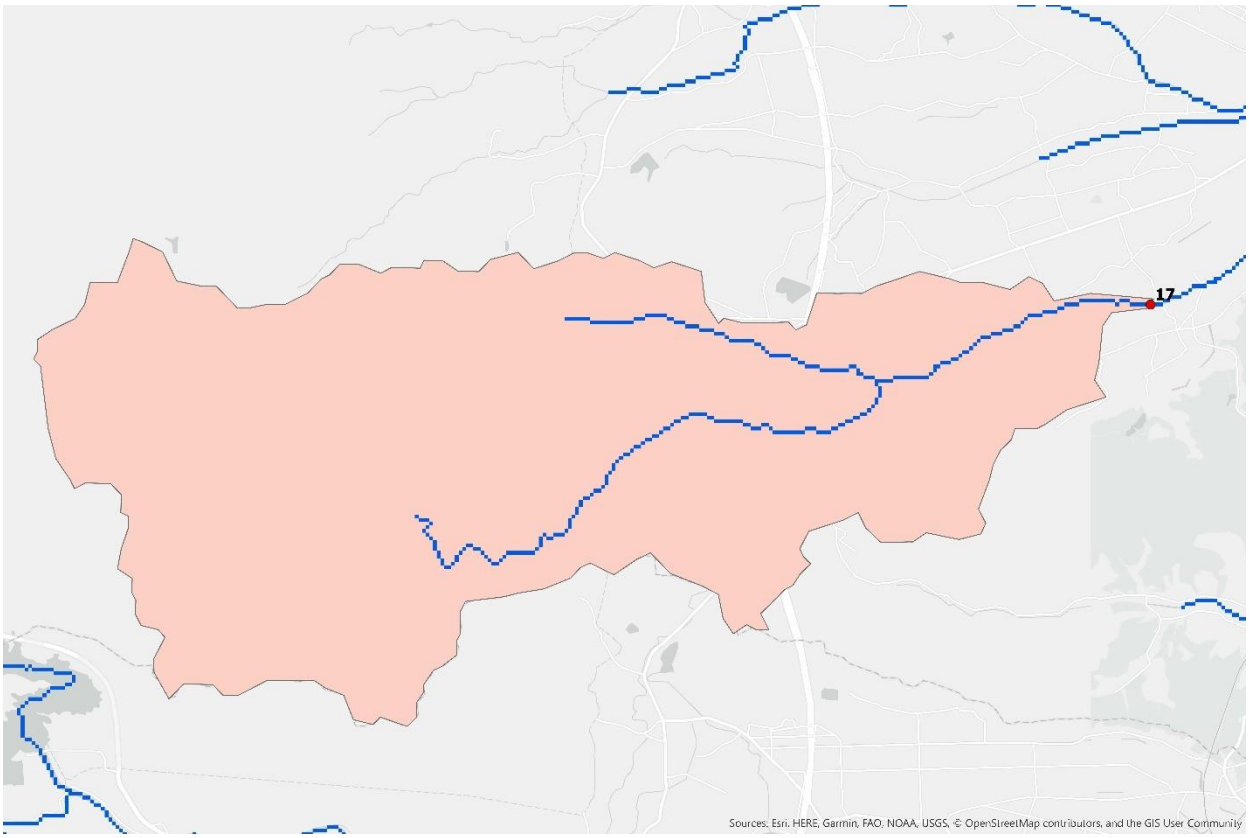
14 Ota River Masuda Bridge Minamisoma City



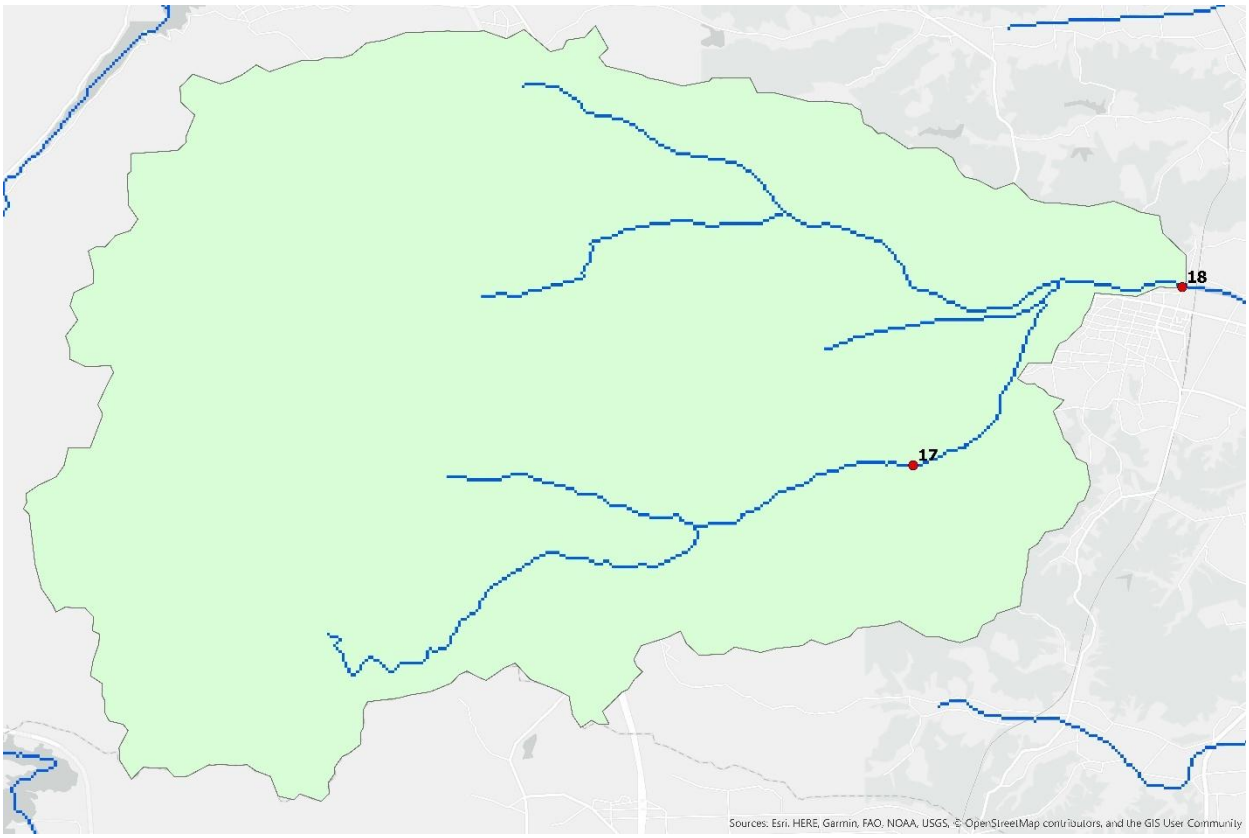
15 Ota River JR Tetsudo Bridge Minamisoma City



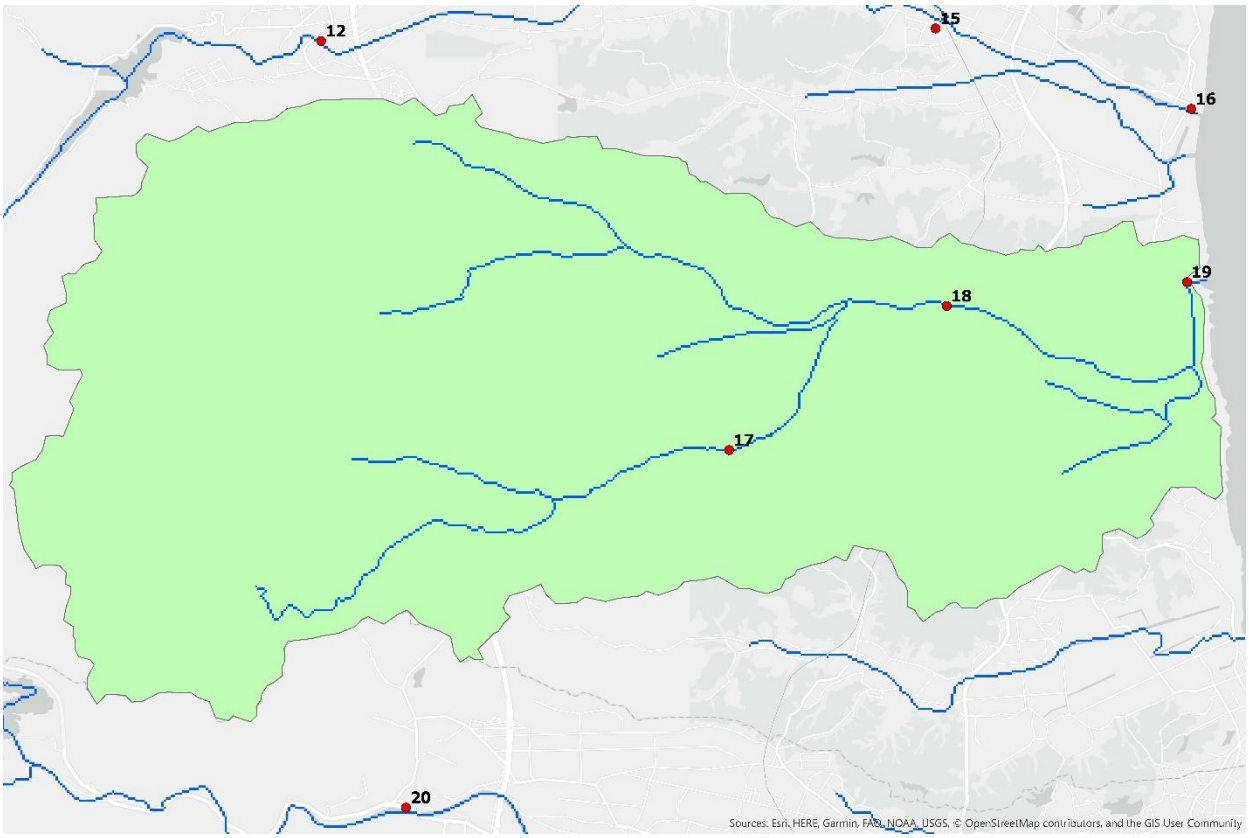
16 Ota River Maruyama Bridge Minamisoma City



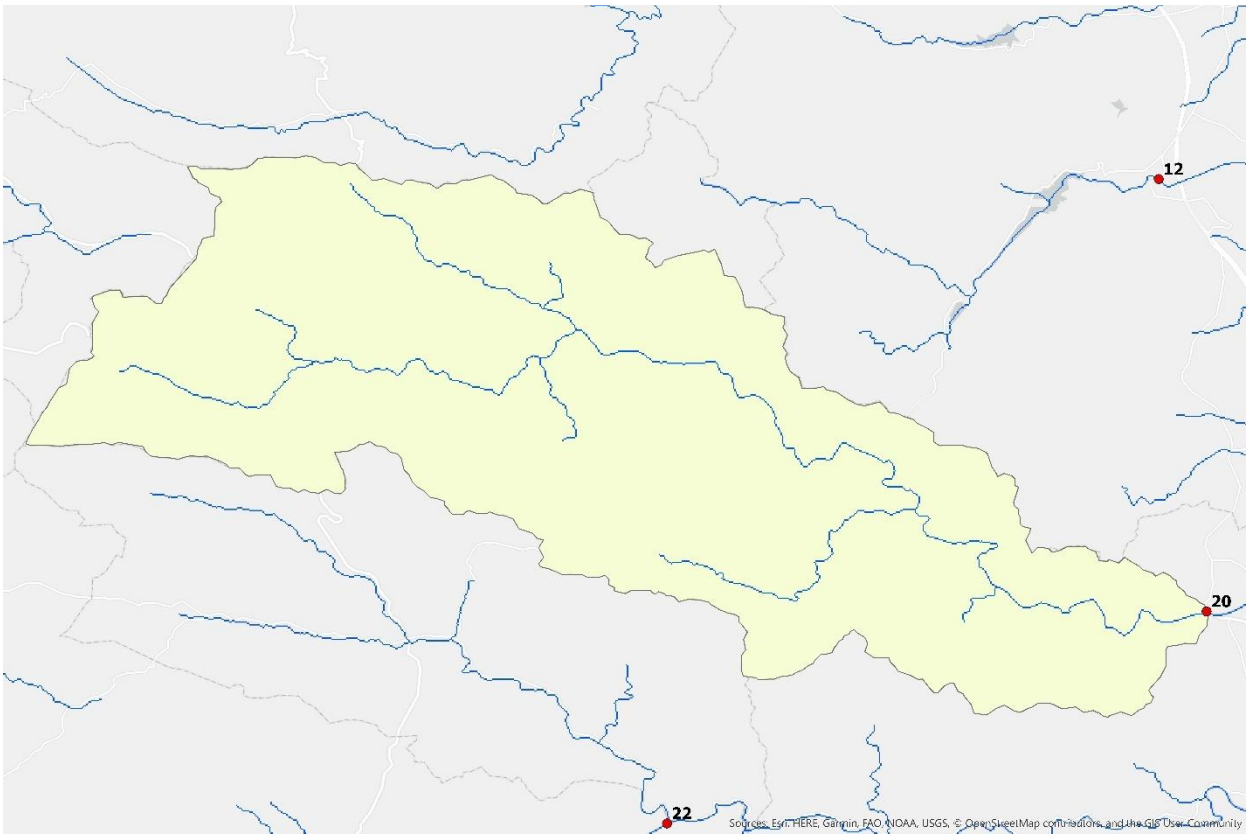
17 Odaka River Shimokawara Bridge Minamisoma City



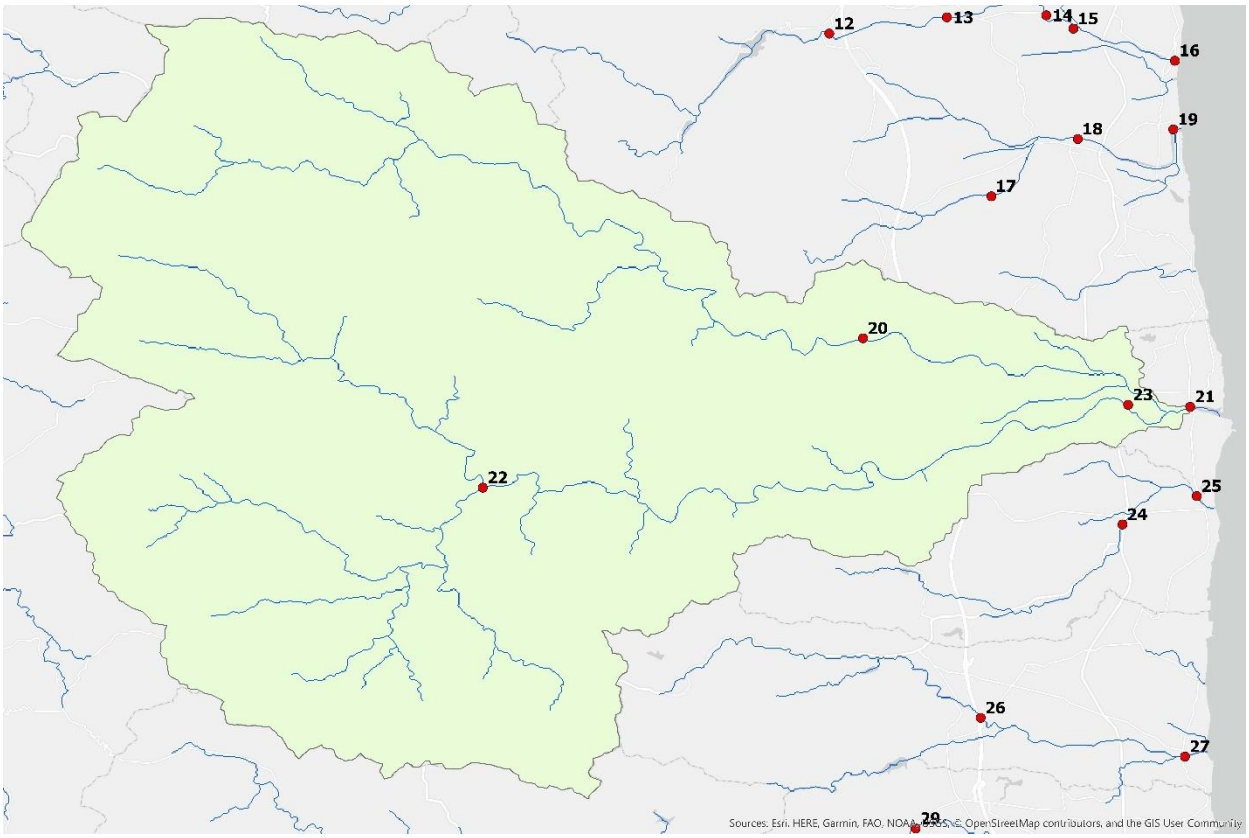
18 Odaka River Zencho Bridge Minamisoma City



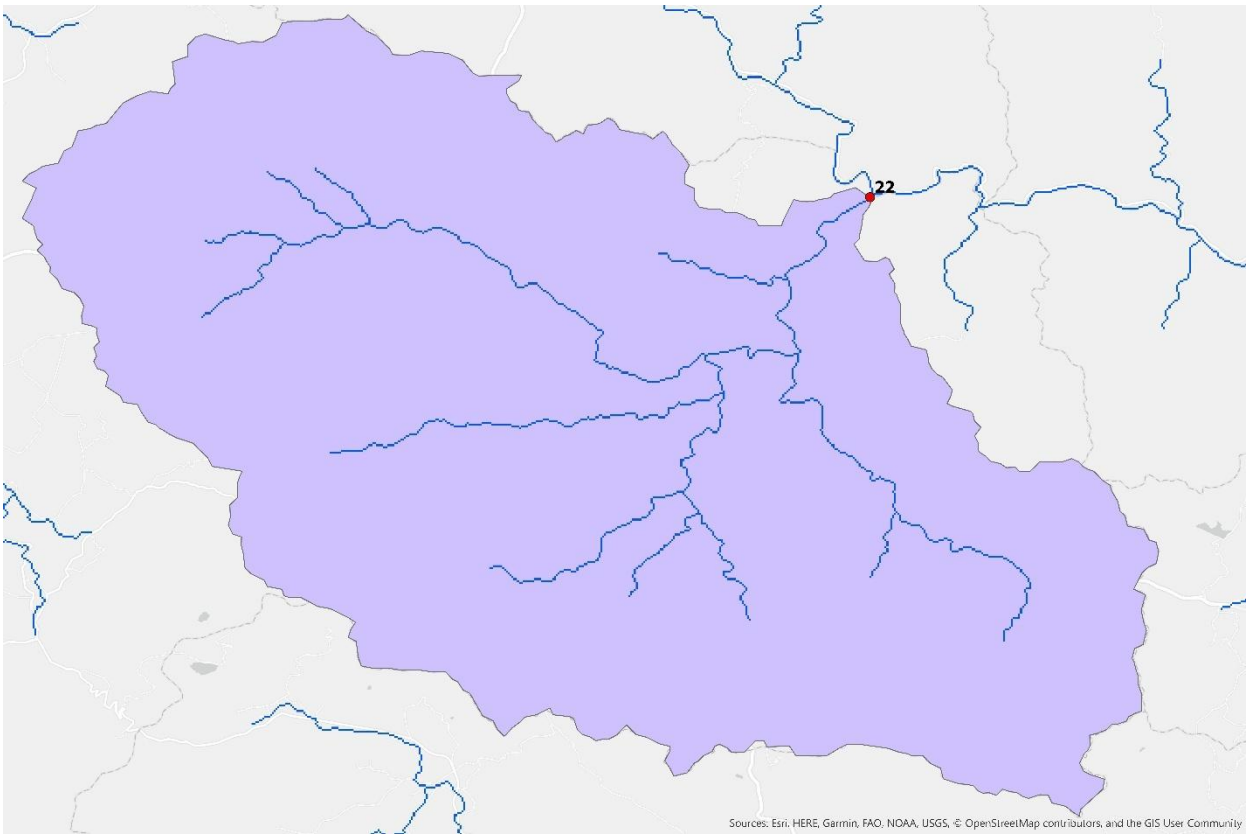
19 Odaka River Hatsukara Bridge Minamisoma City



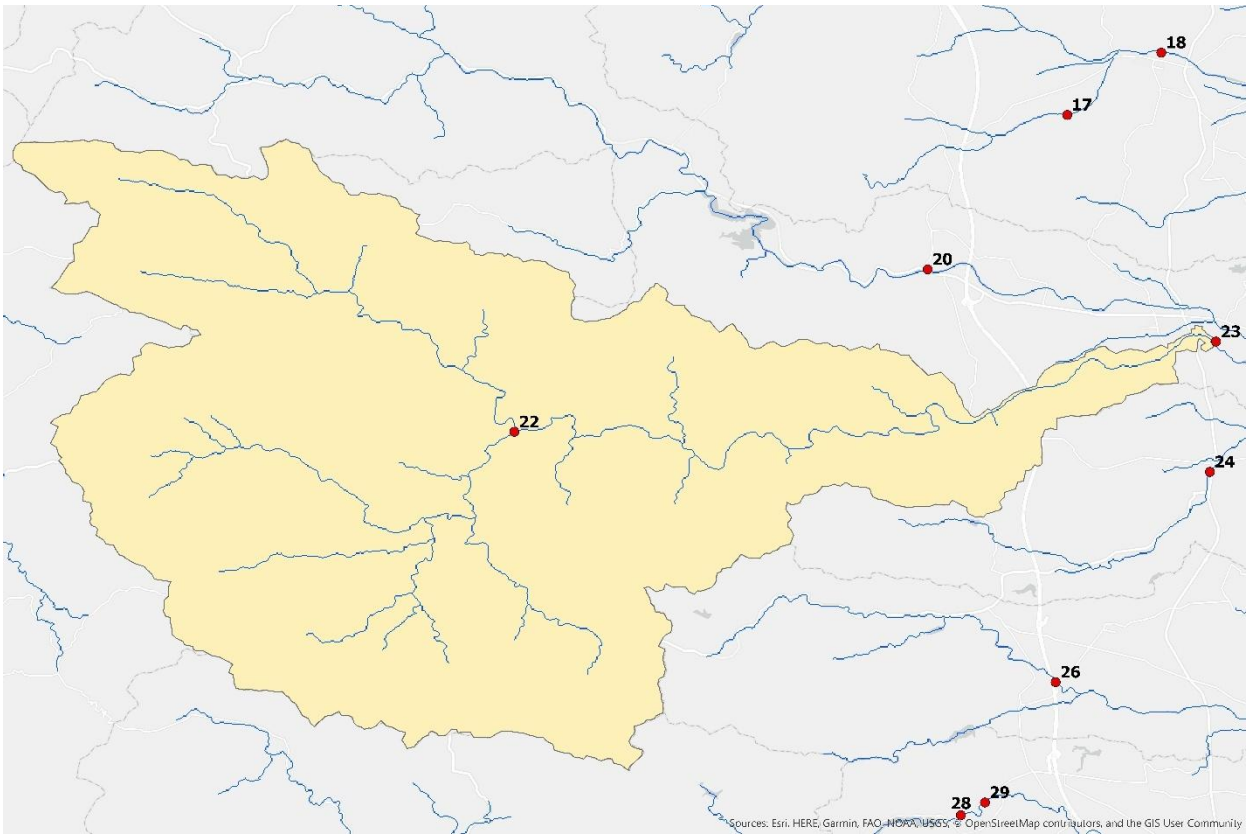
20 Ukedo River Murohara Bridge Namie Town



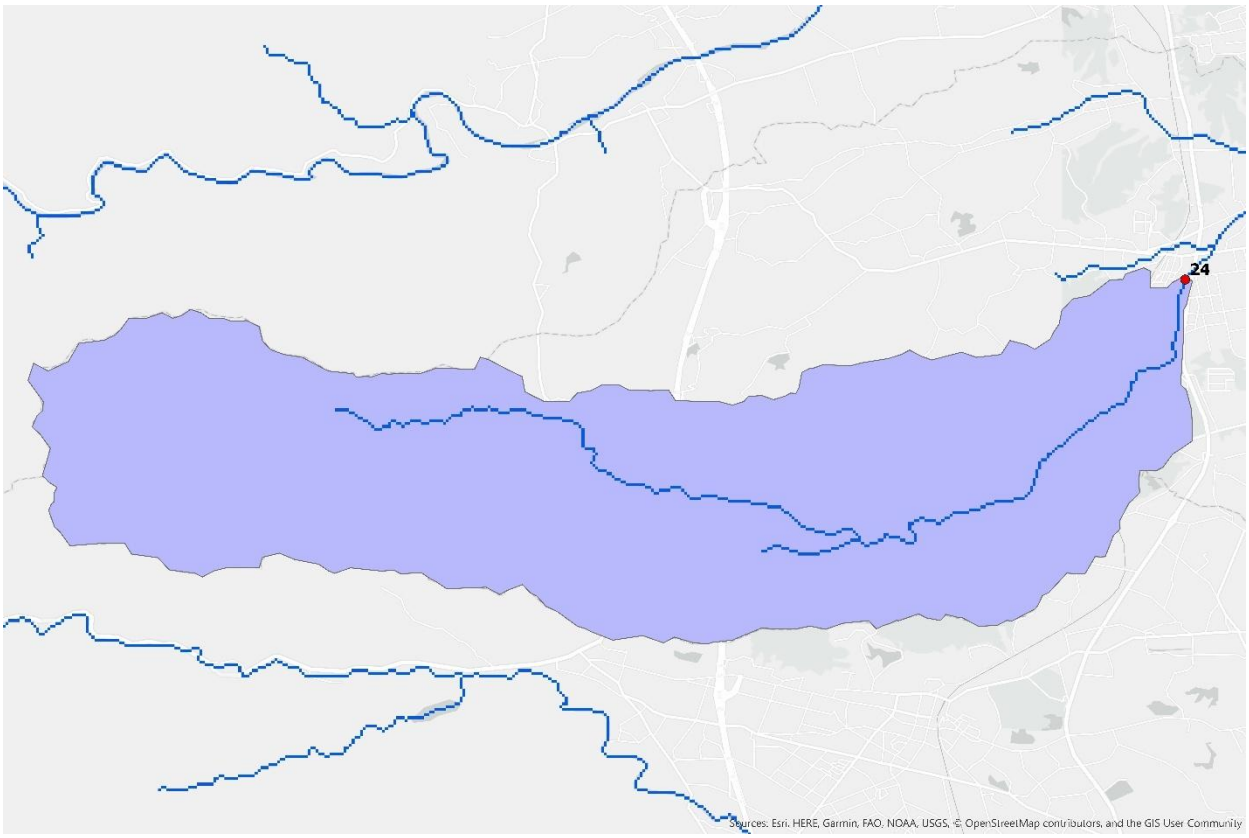
21 Ukedo River Ukedo Bridge Namie Town



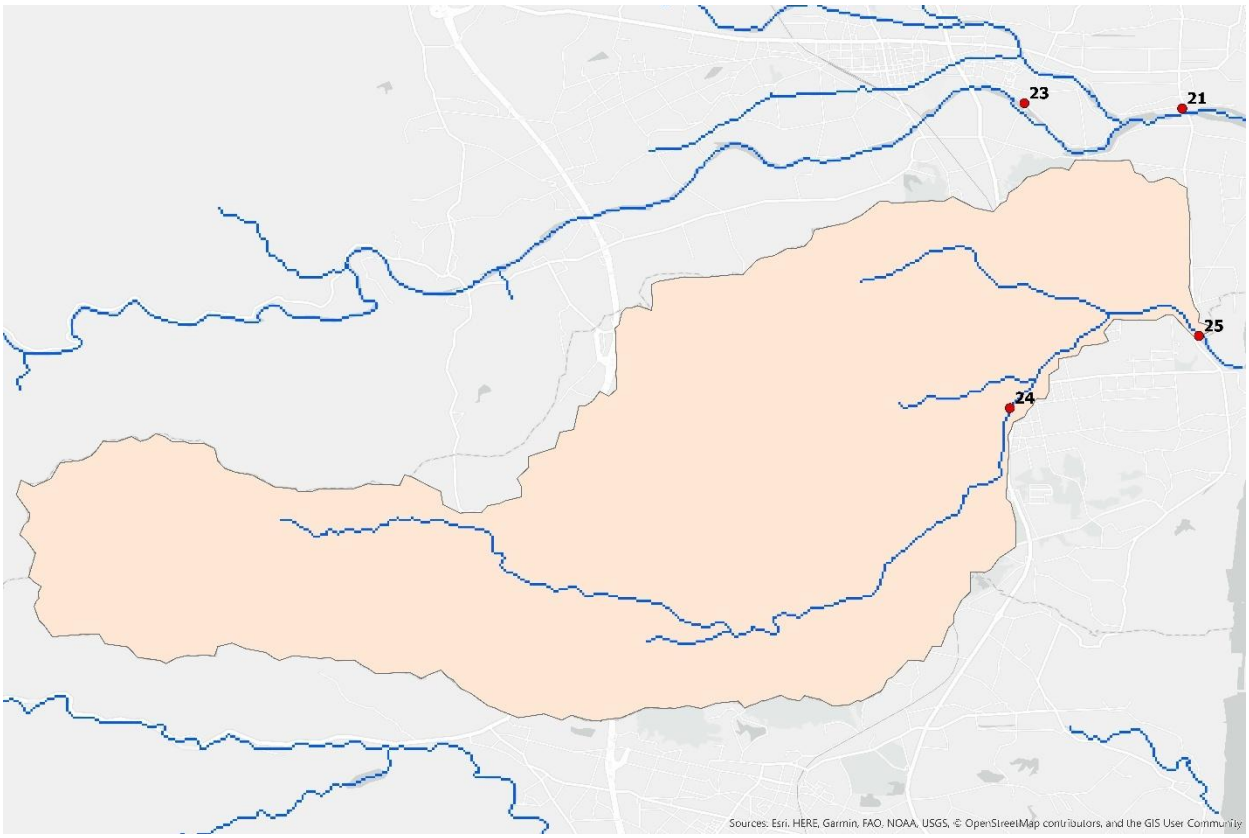
22 Furumichi River Before the confluence with Takase River (Miyakoji-machi furumichishitadaira) Tamura City



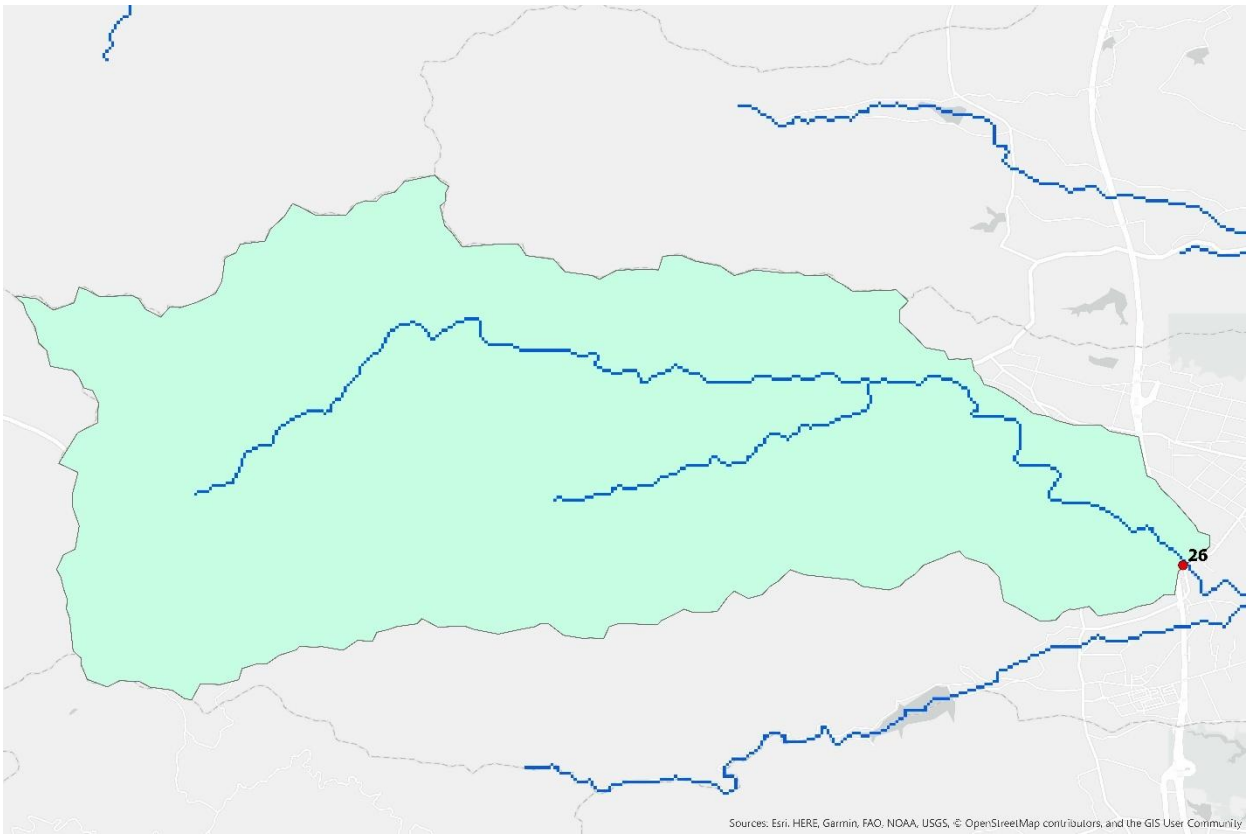
23 Takase River Keio Bridge Namie Town



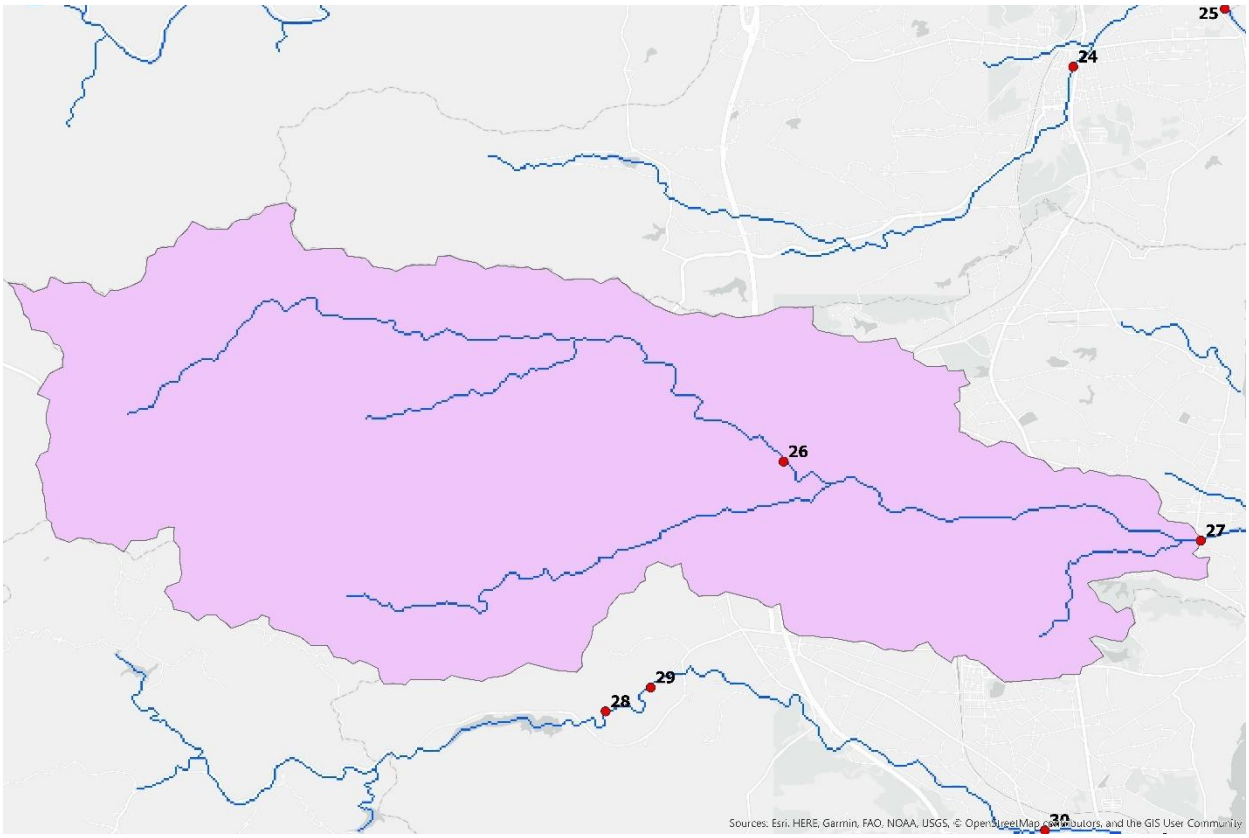
24 Maeda River National Route 6, west Futaba Town



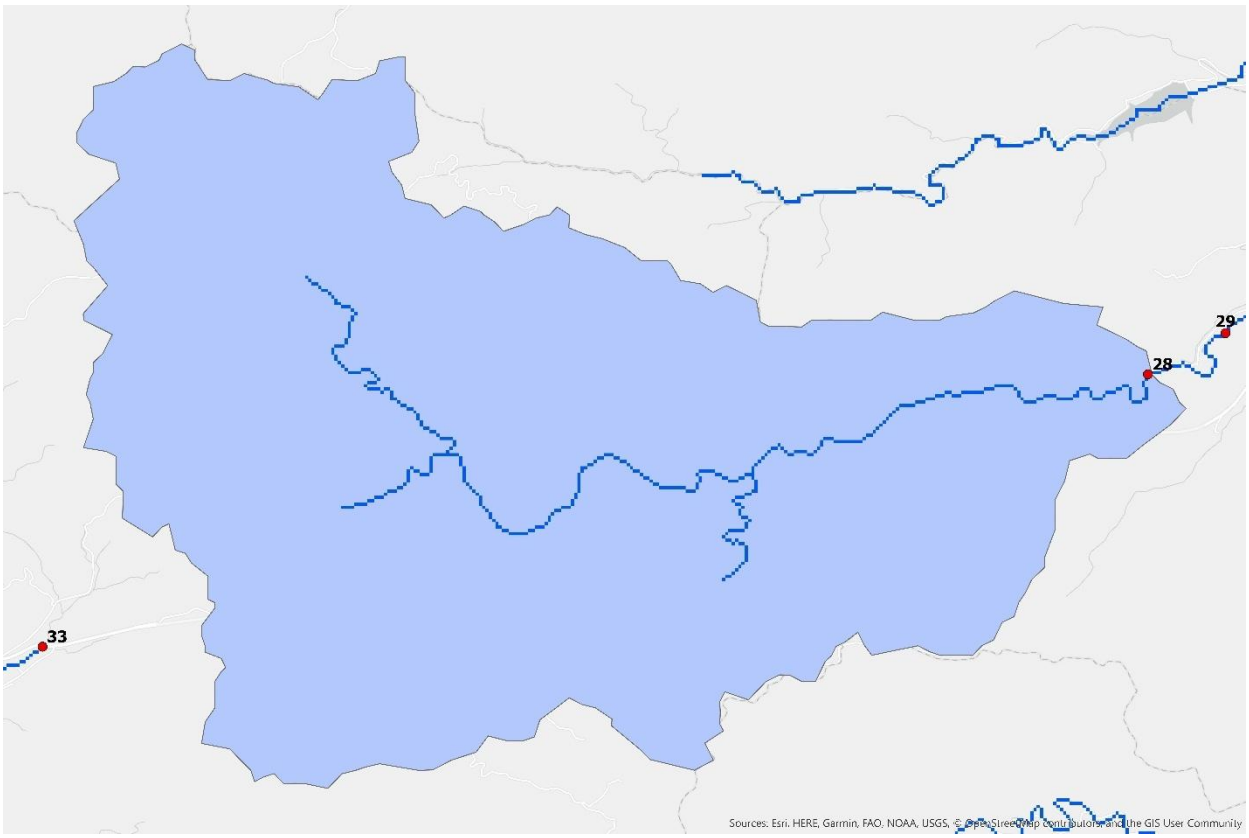
25 Maeda River Nakahama Bridge Namie Town



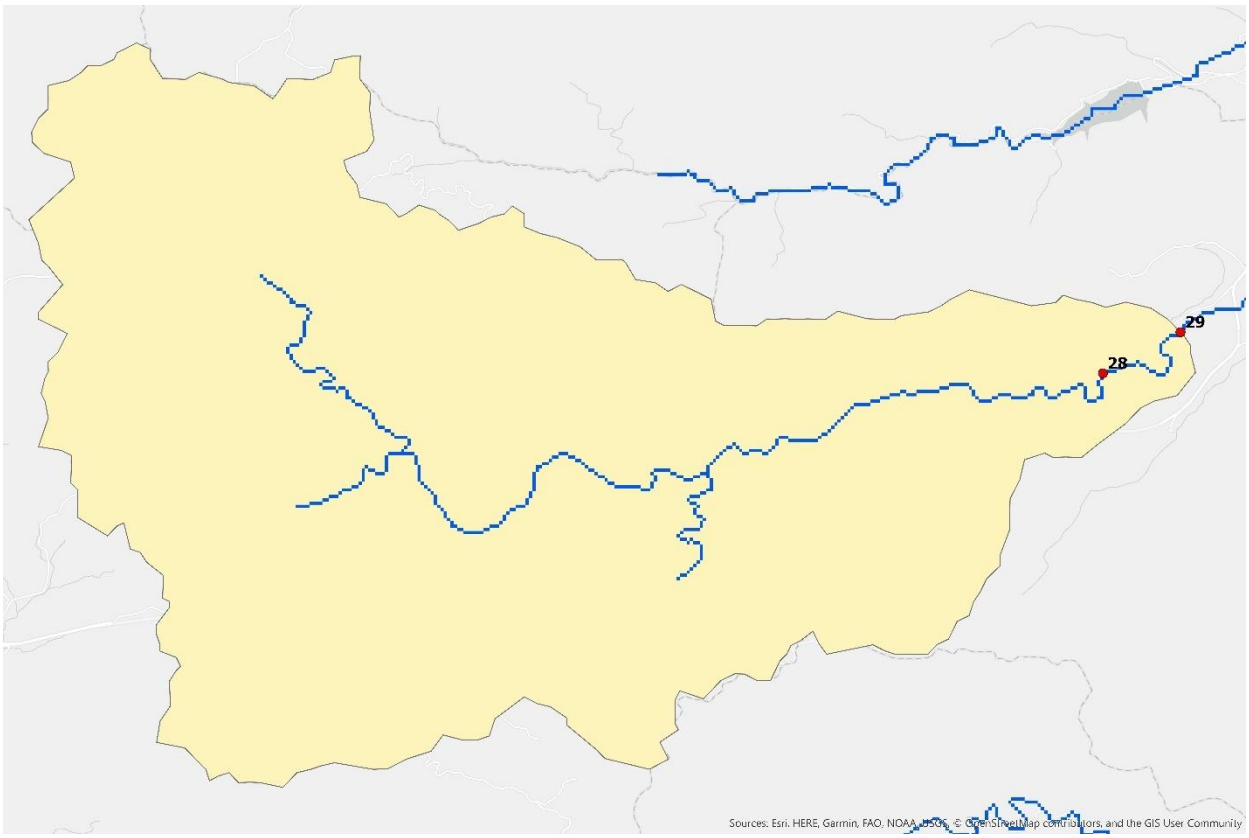
26 Kumagawa River National Route 6, west Okuma Town



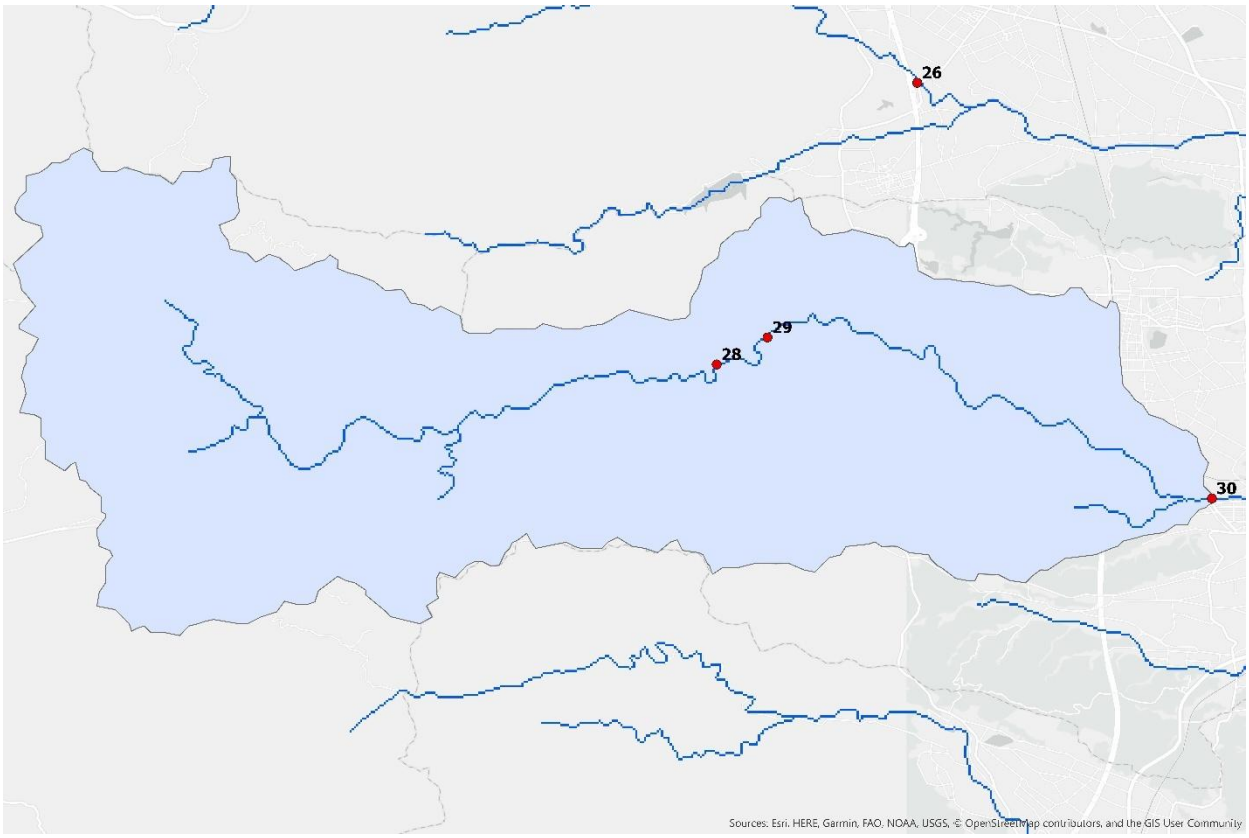
27 Kumagawa River Mikuma Bridge Okuma Town



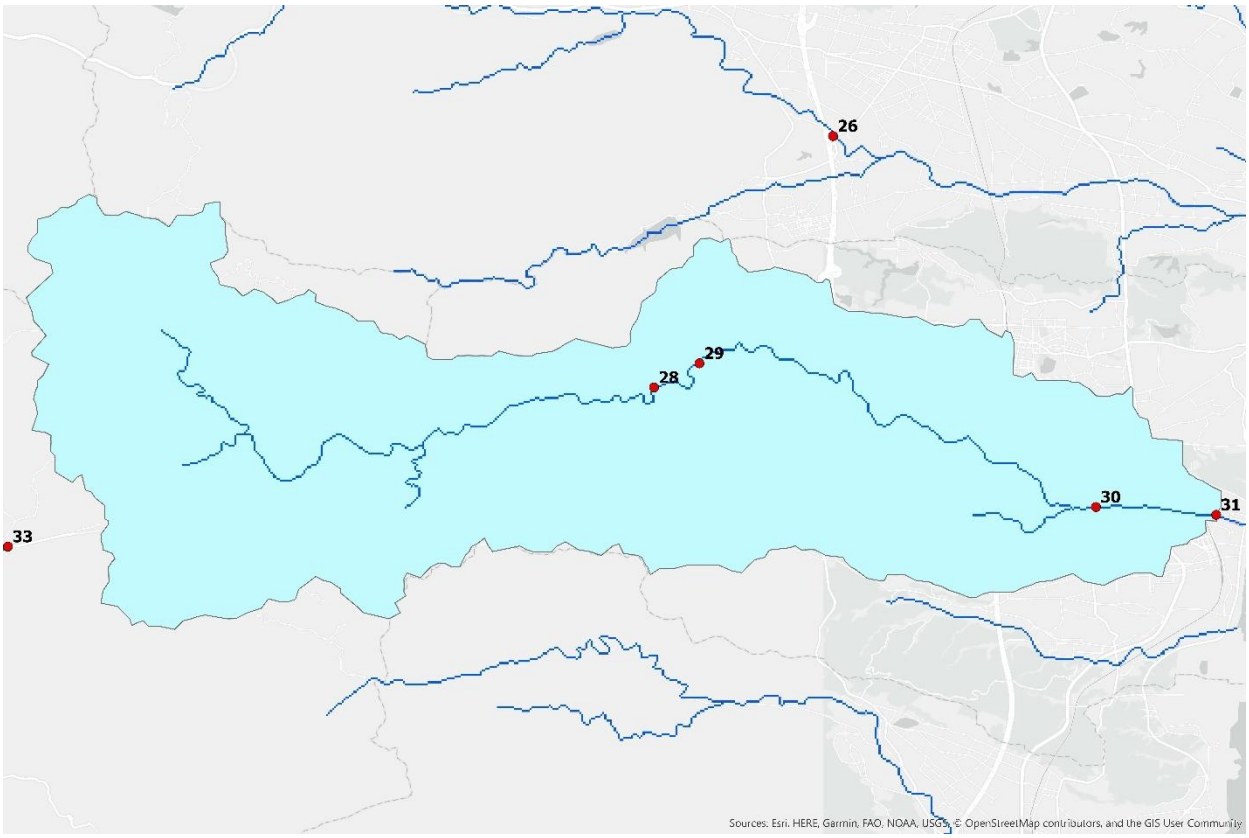
28 Tomioka River Nabekura Bridge Kawauchi Village



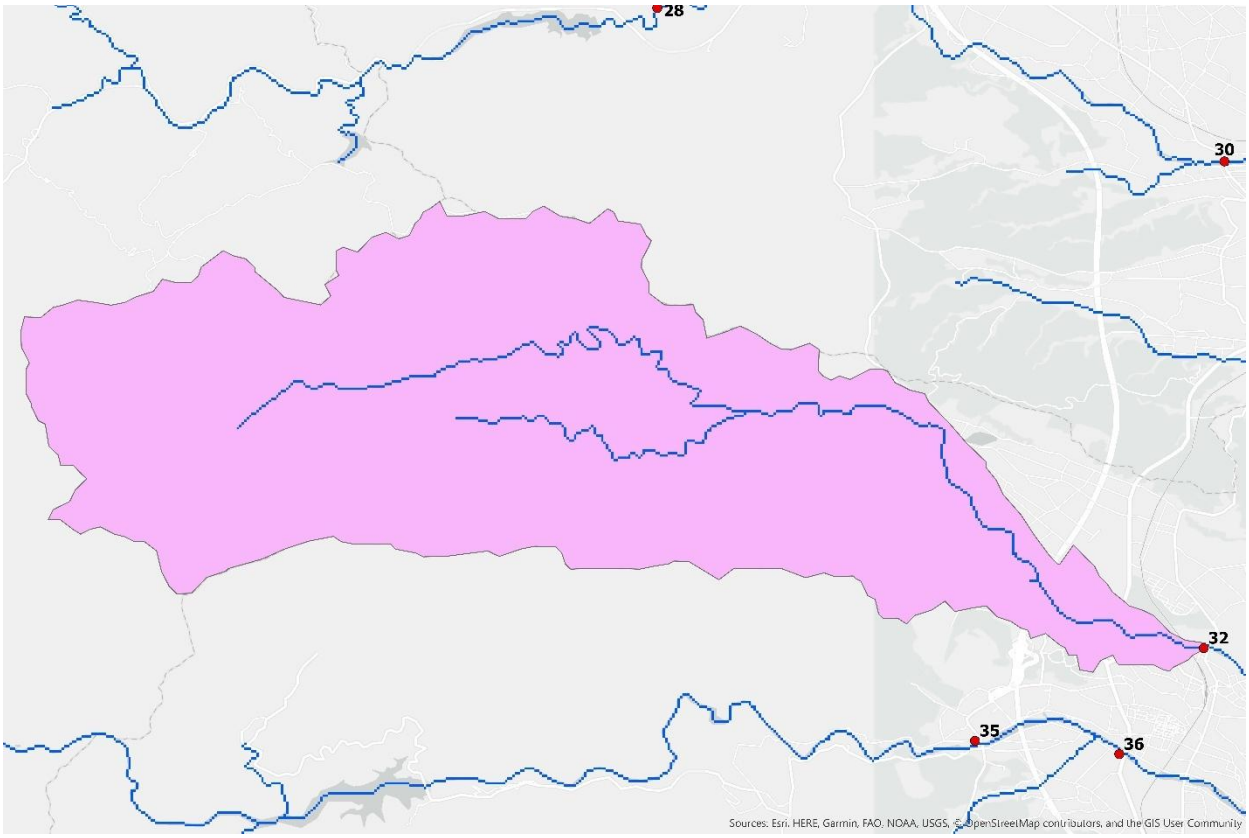
29 Tomioka River Sakaigawa Bridge Kawauchi Village



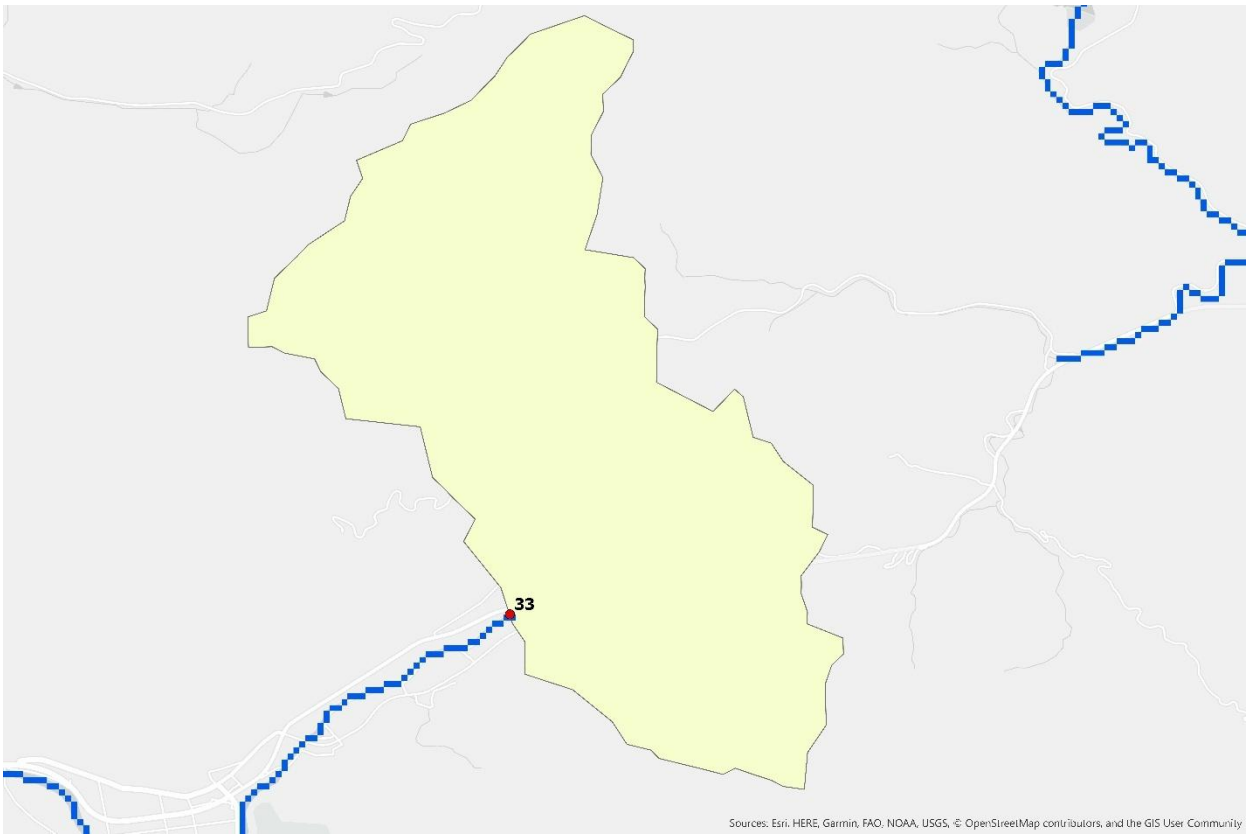
30 Tomioka River National Route 6, west Tomioka Town



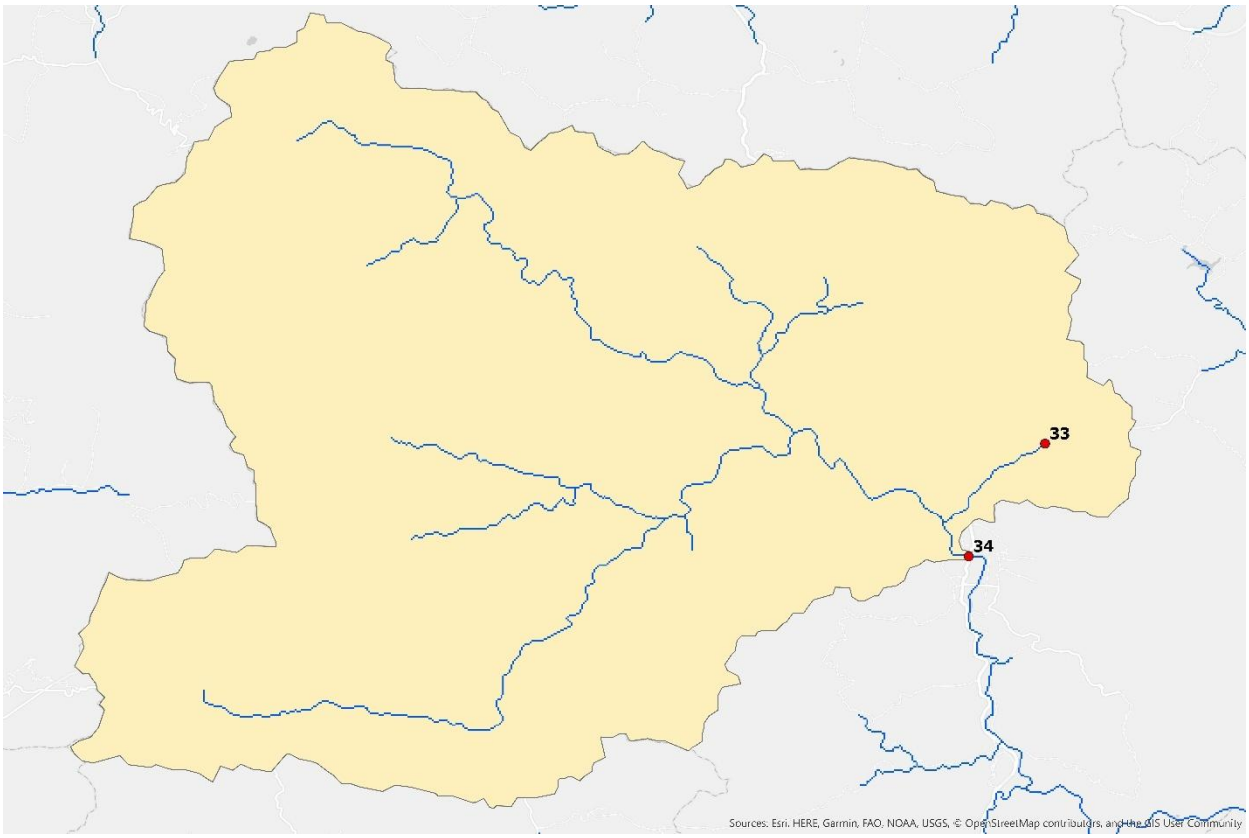
31 Tomioka River Kobama Bridge Tomioka Town



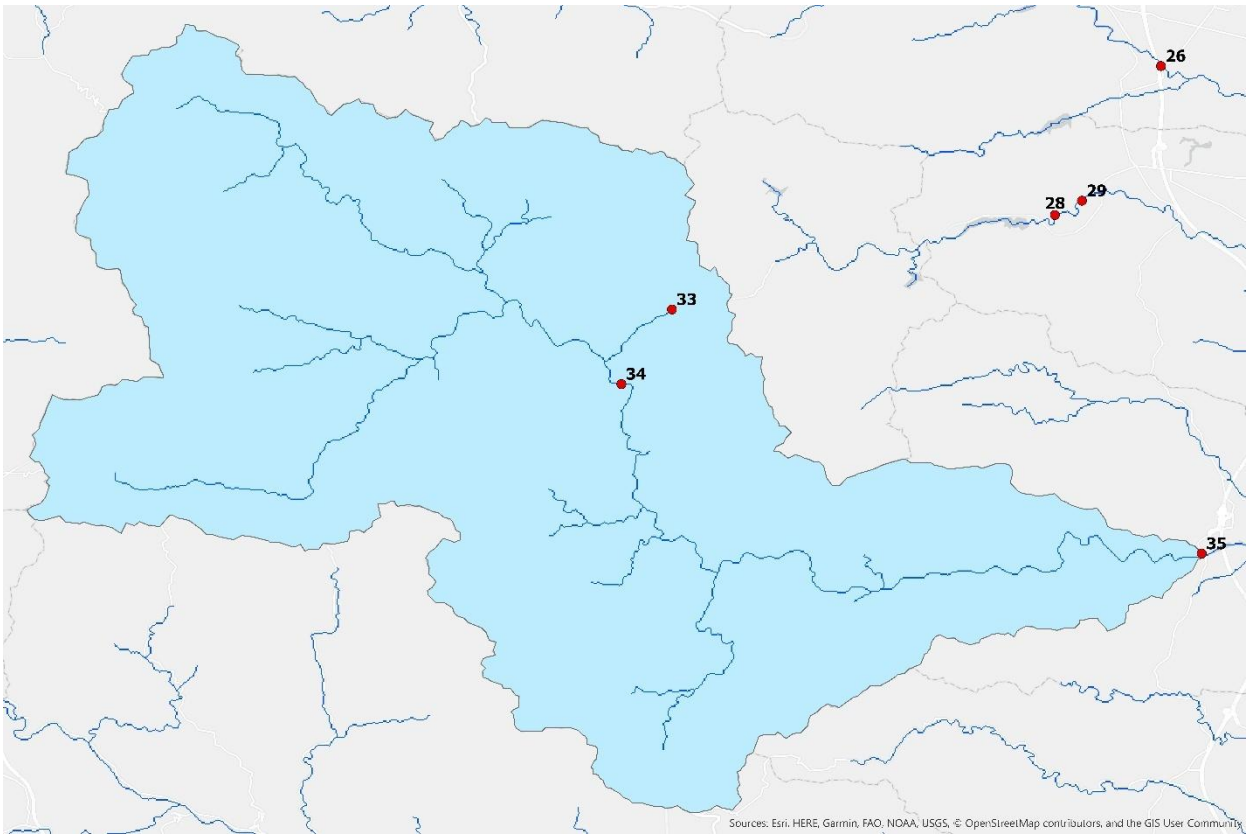
32	Idegawa River	Motogama Bridge	Naraha Town



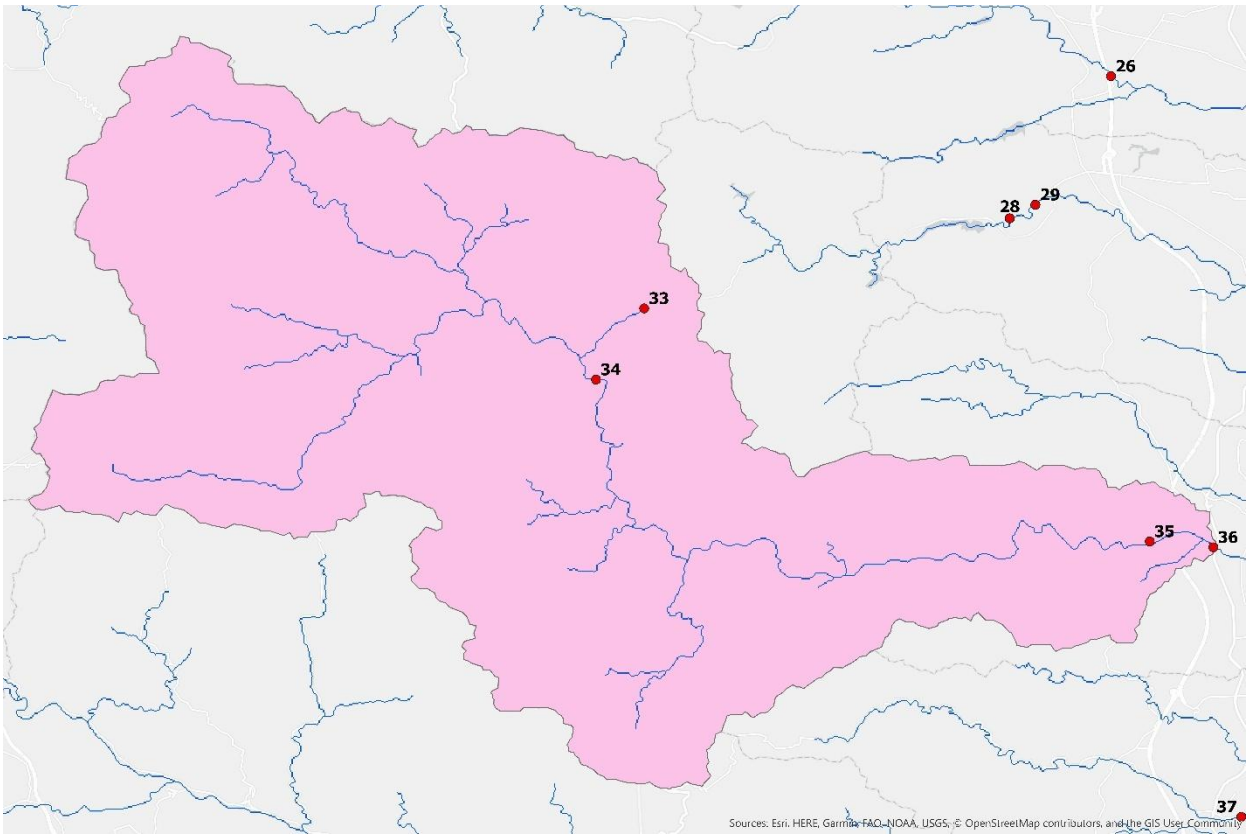
33 Kawauchi River Before the confluence with Kidogawa River (Futamatabashi Bridge) Kawauchi Village



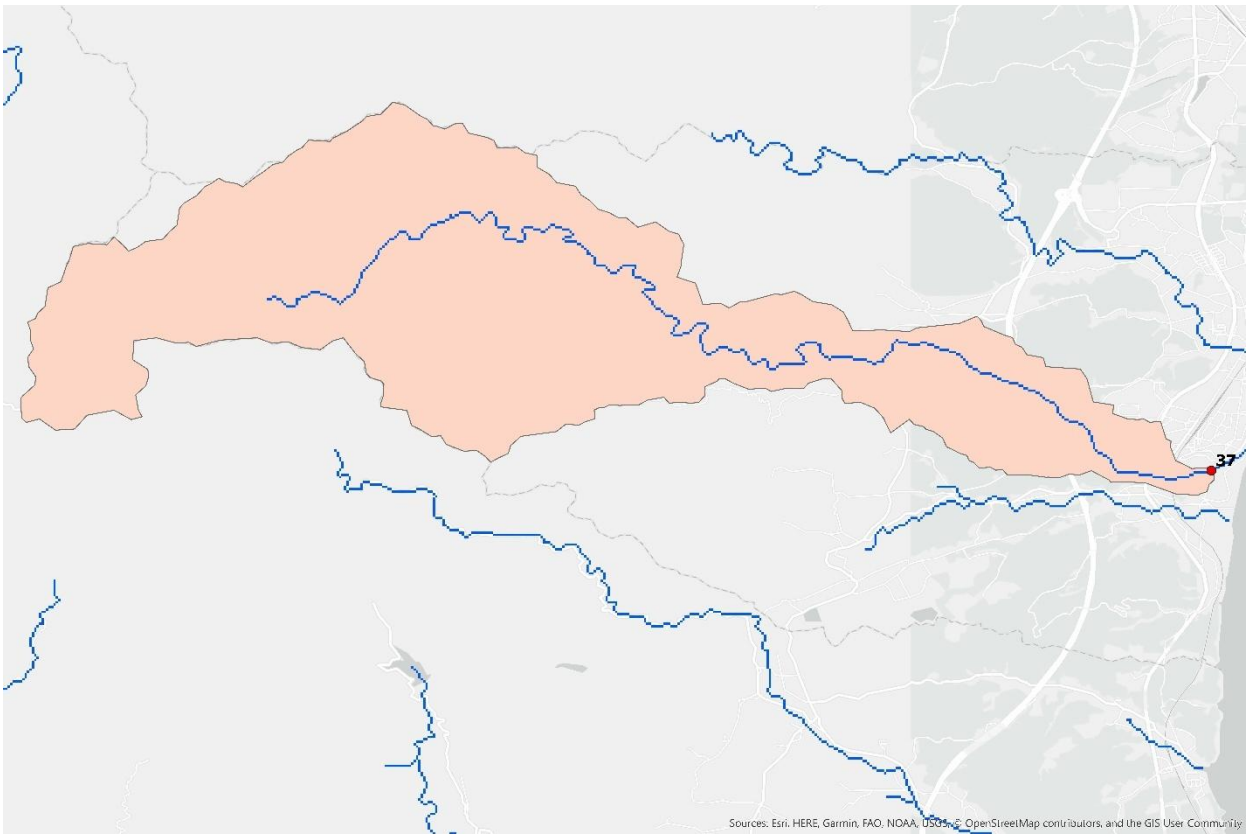
34 Kidogawa River Nishiyama Bridge Kawauchi Village



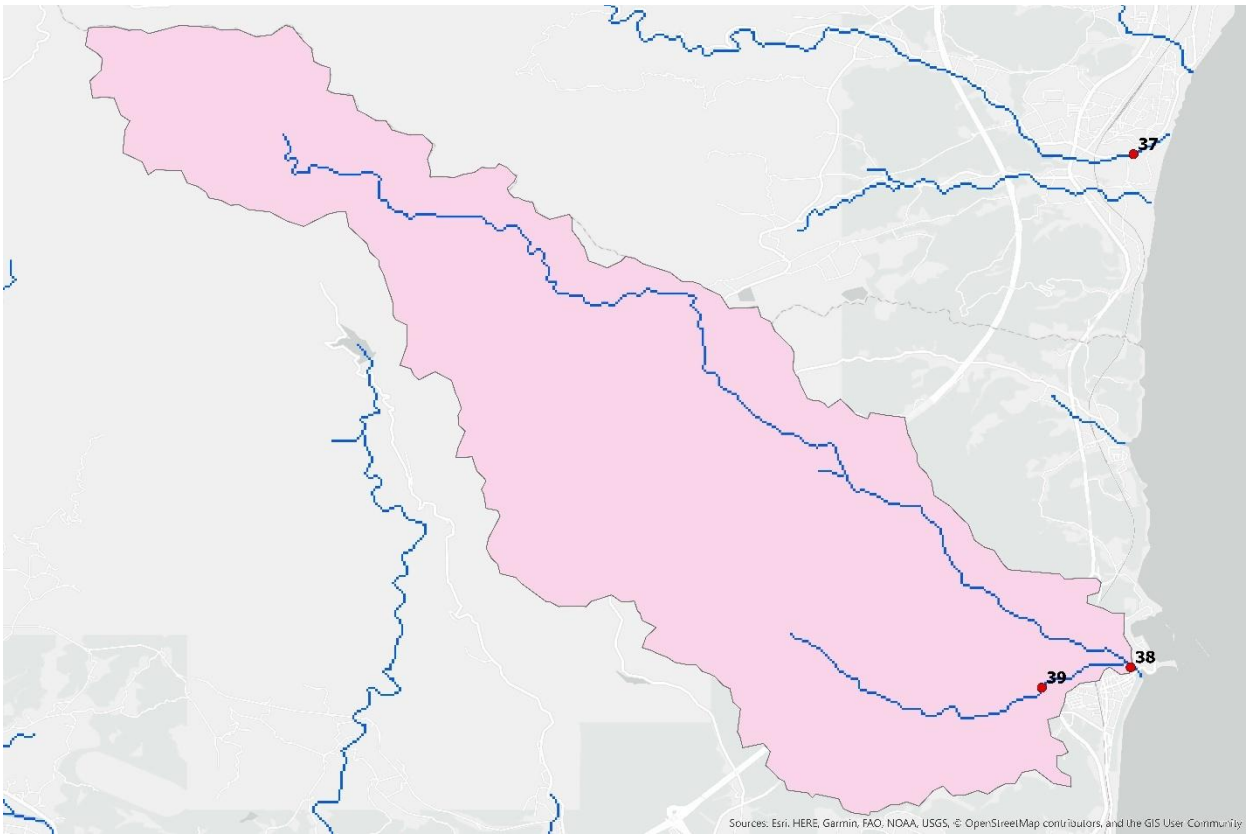
35 Kidogawa River Nagatoro Bridge Naraha Town



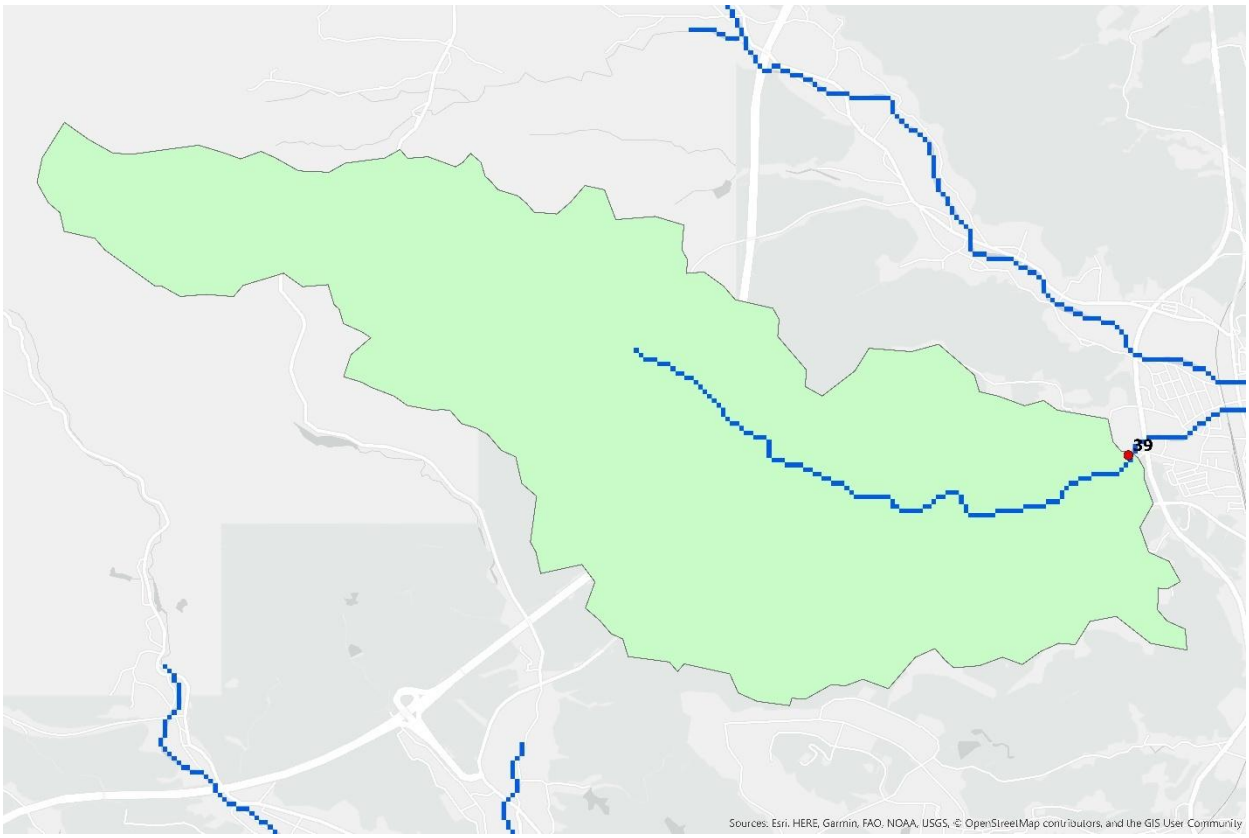
36 Kidogawa River Kidokawa Bridge Naraha Town



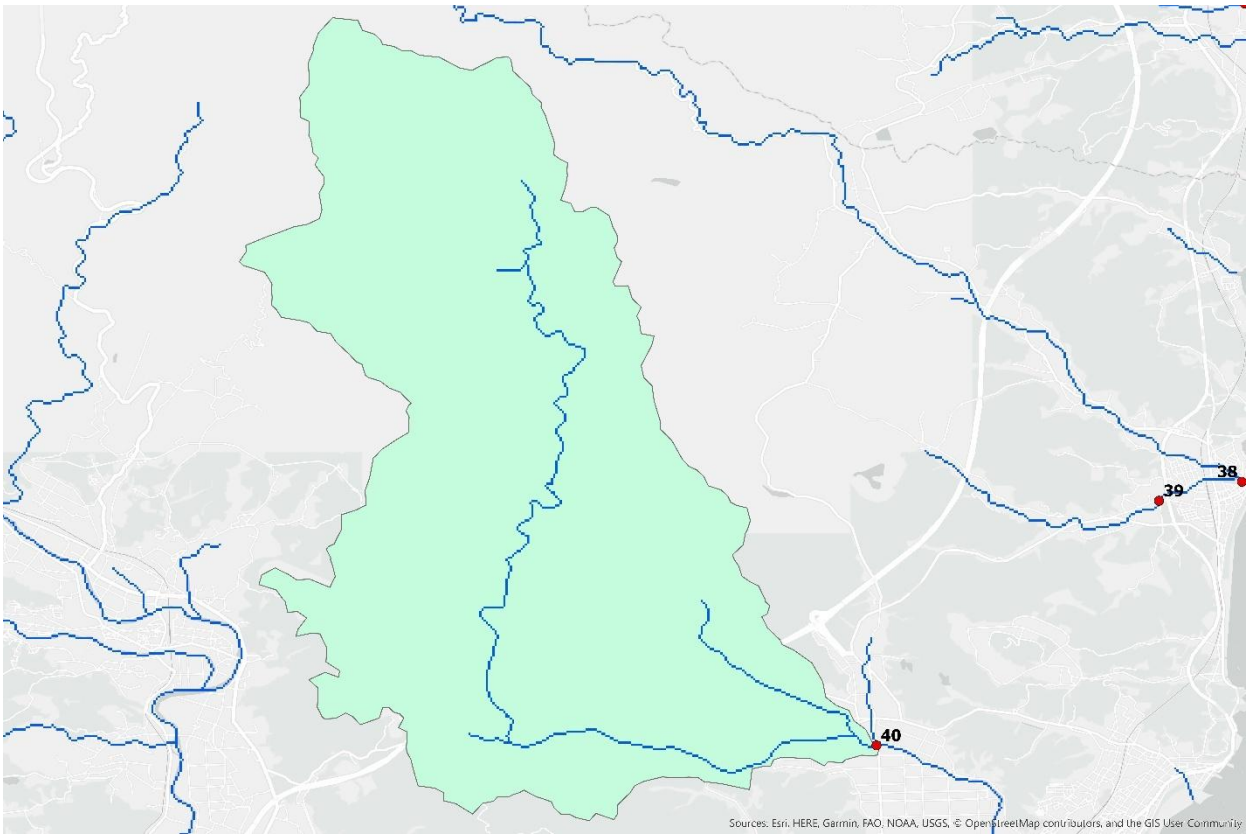
37　Asami River　Boda Bridge　Hirono Town



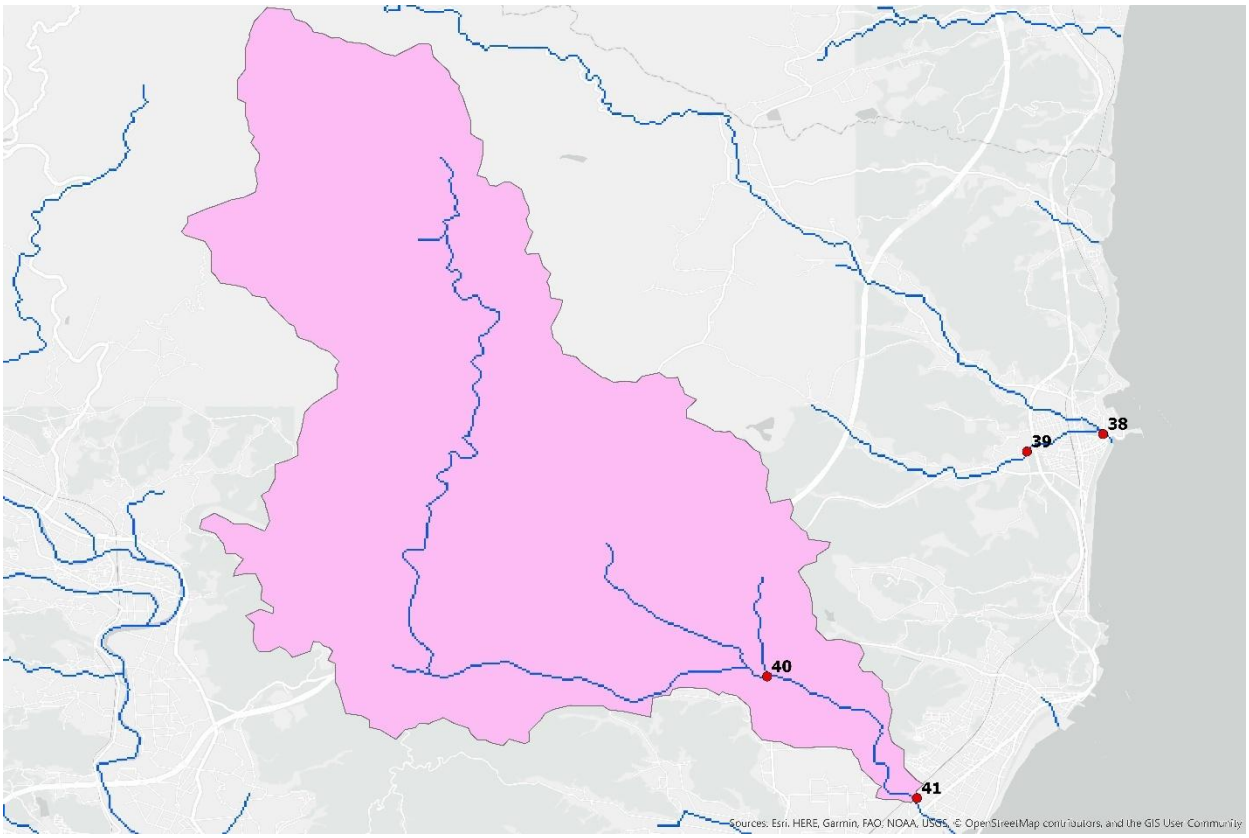
38 Ohisa River Kageiso Bridge Iwaki City



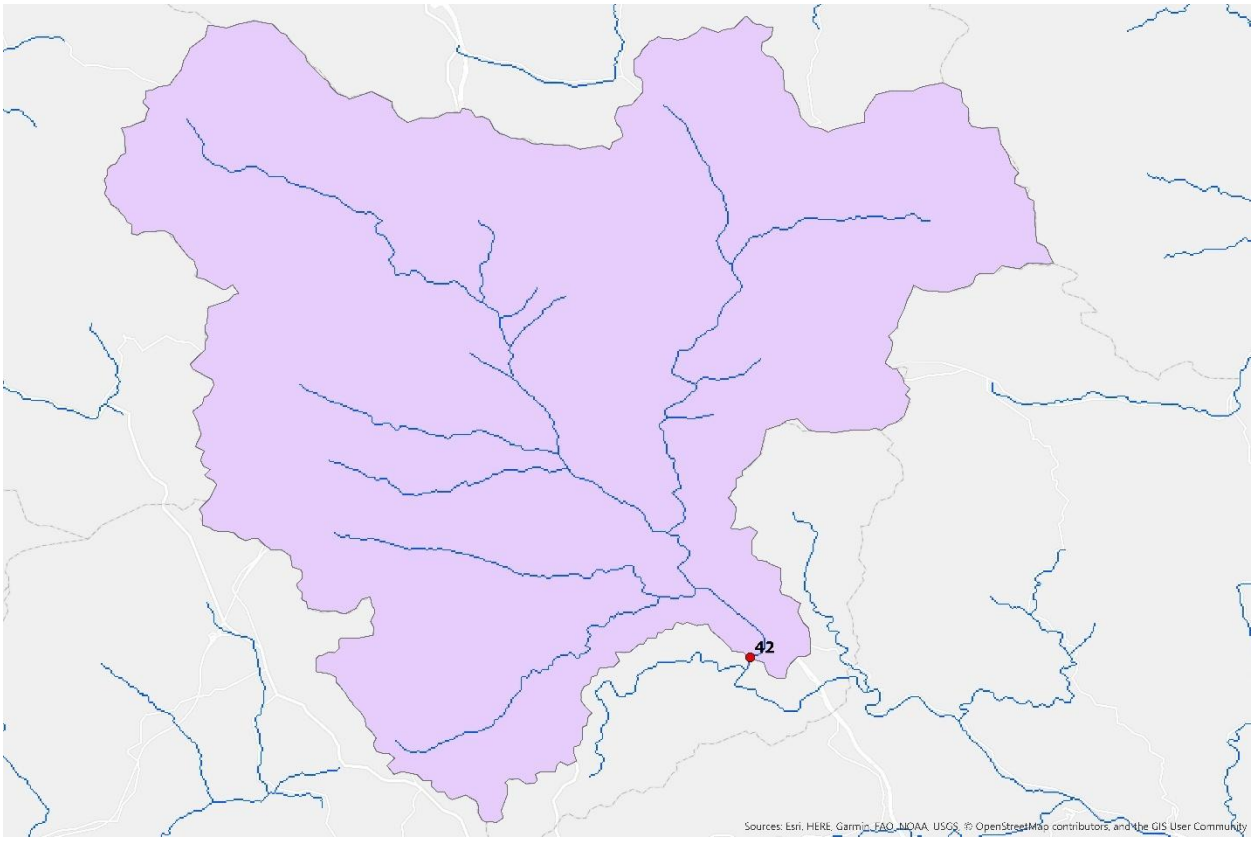
39 Kohisa River Rengo Bridge Iwaki City



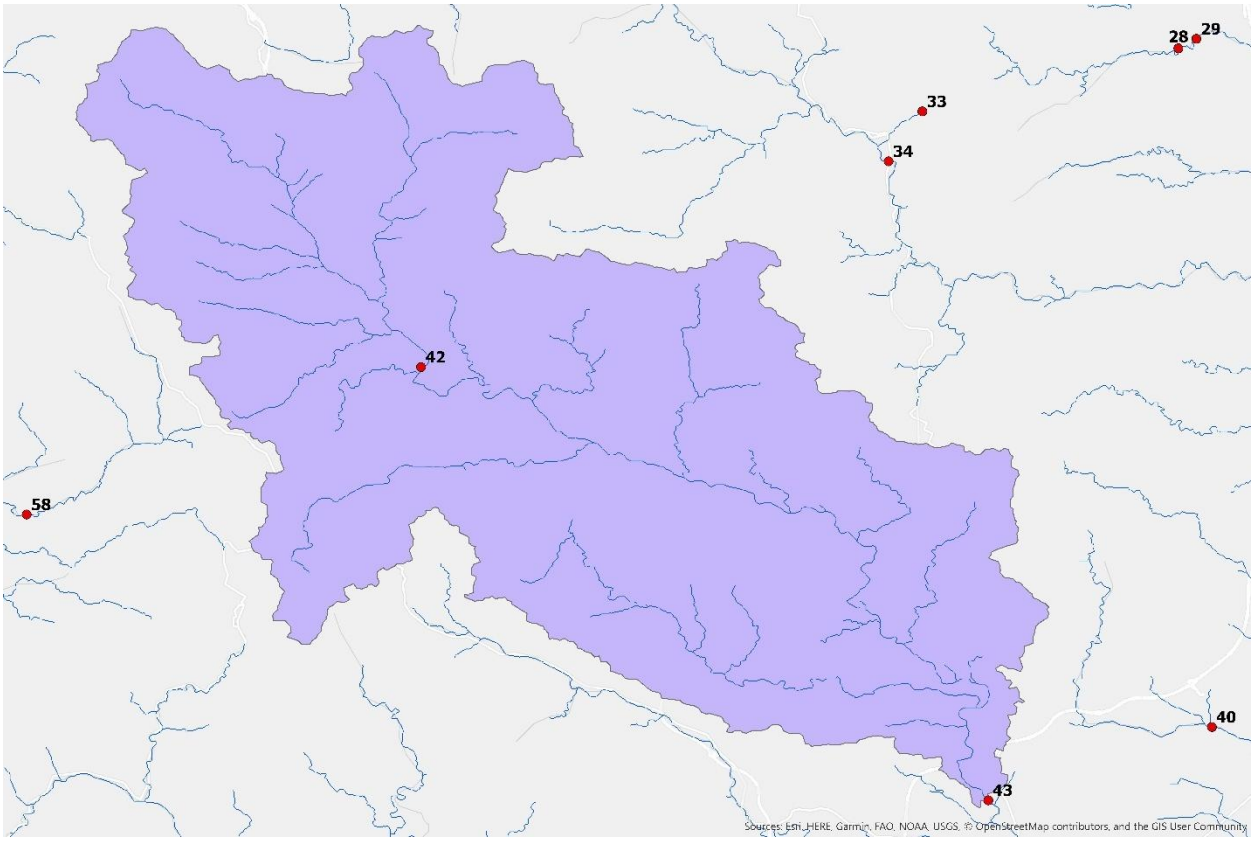
40 Niida River Kasumida Bridge Iwaki City



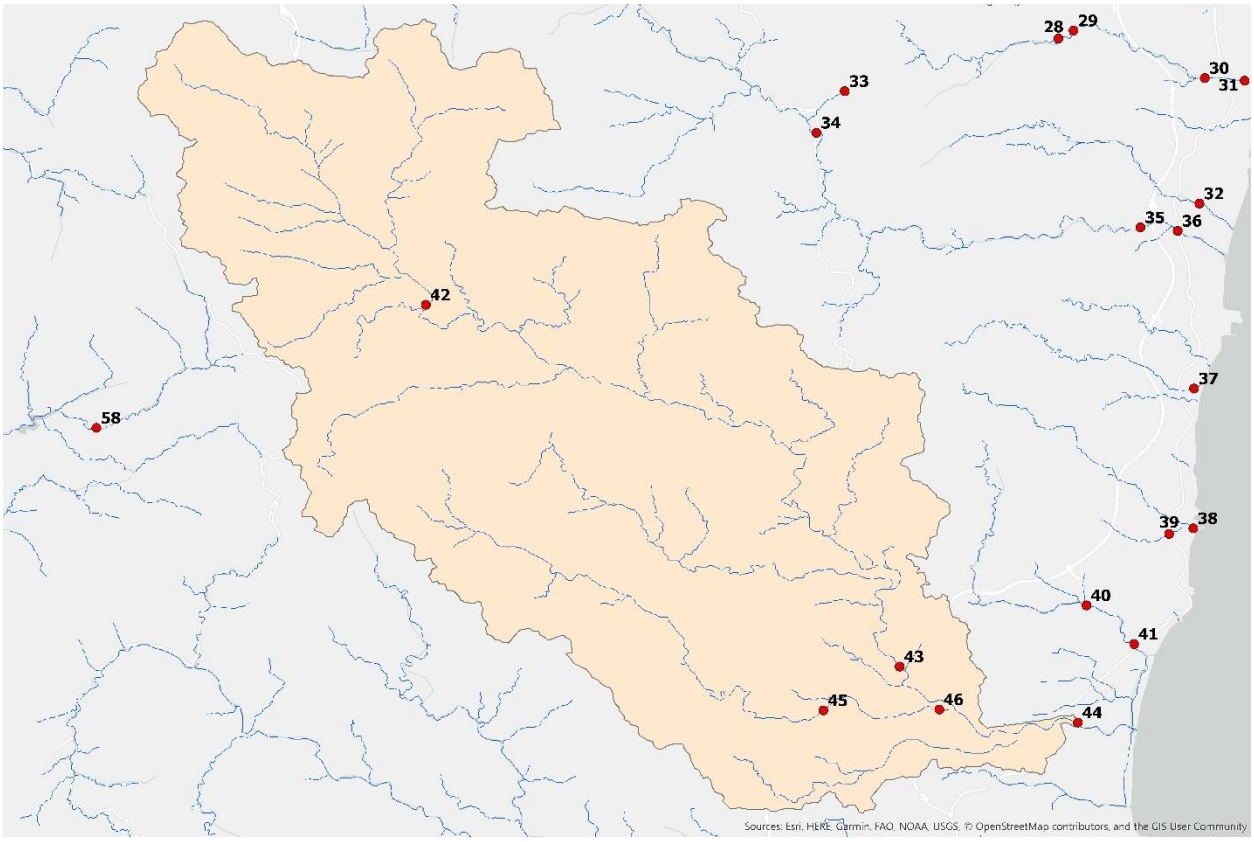
41 Niida River Matsuba Bridge Iwaki City



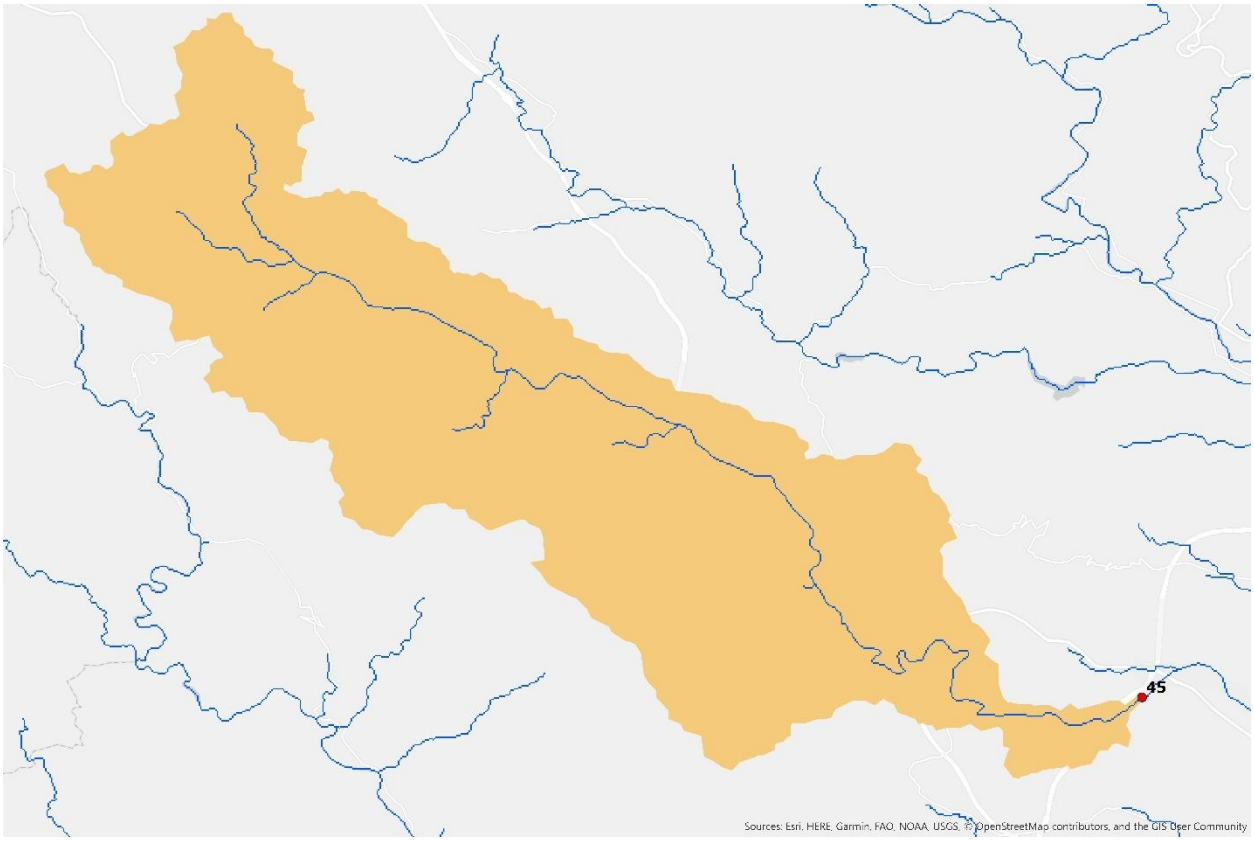
42 Natsui River Kitanouchi Bridge Ono Town



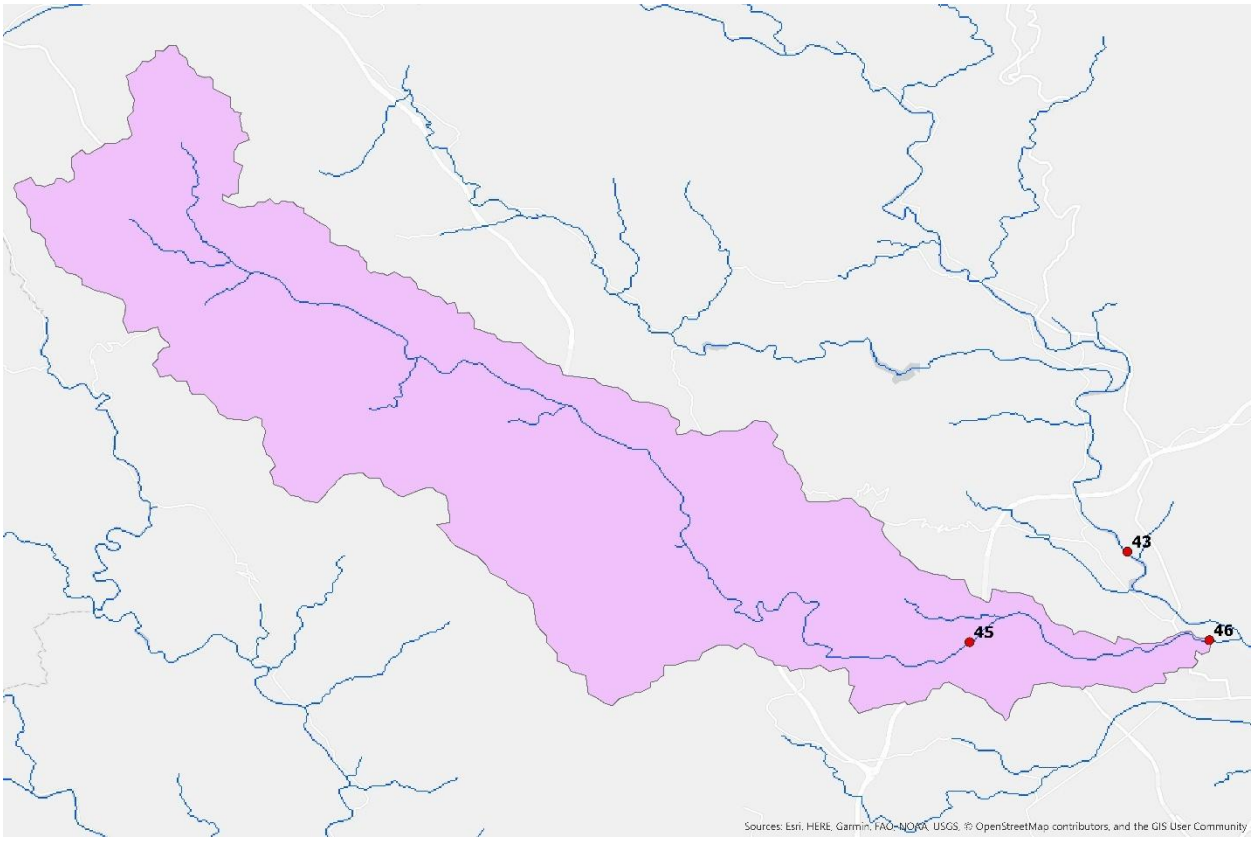
43 Natsui River Kyudayu Bridge Iwaki City



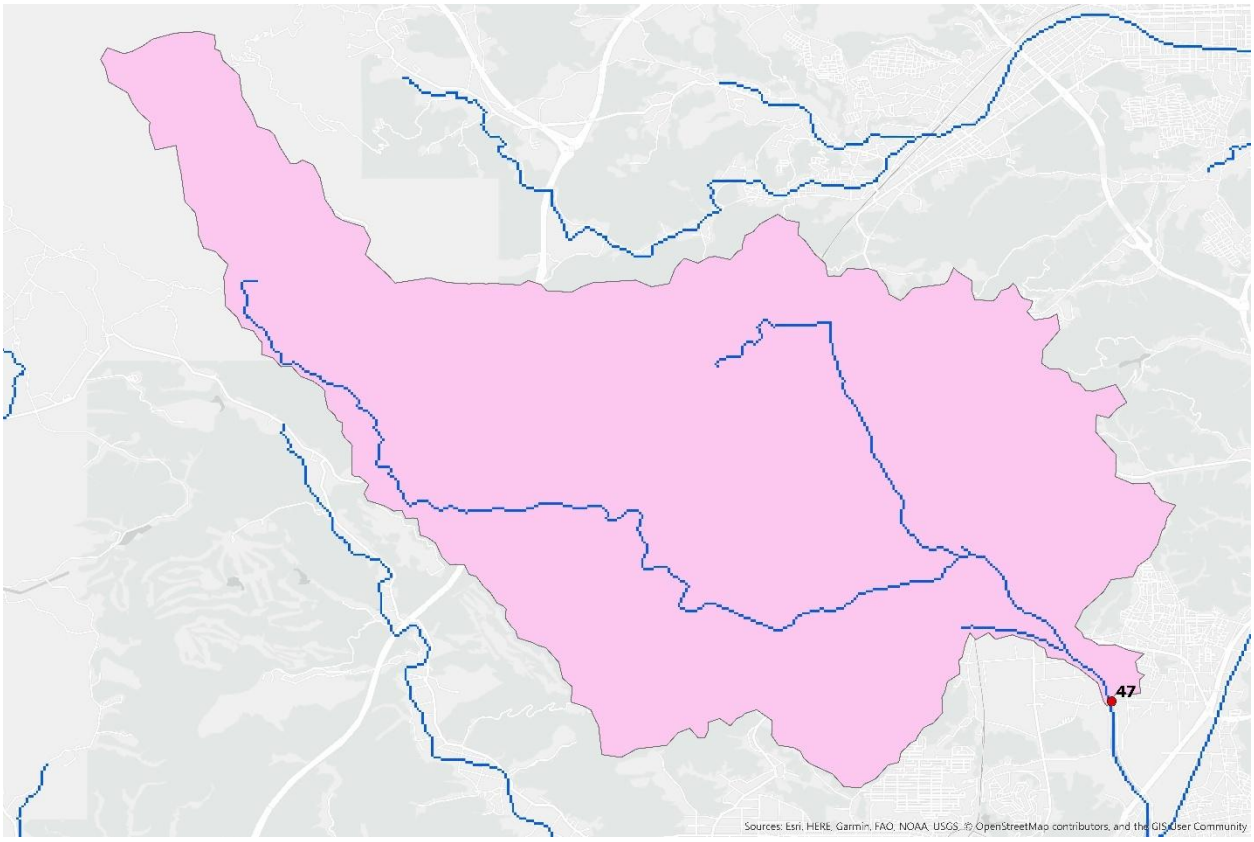
44 Natsui River Rokujumai Bridge Iwaki City



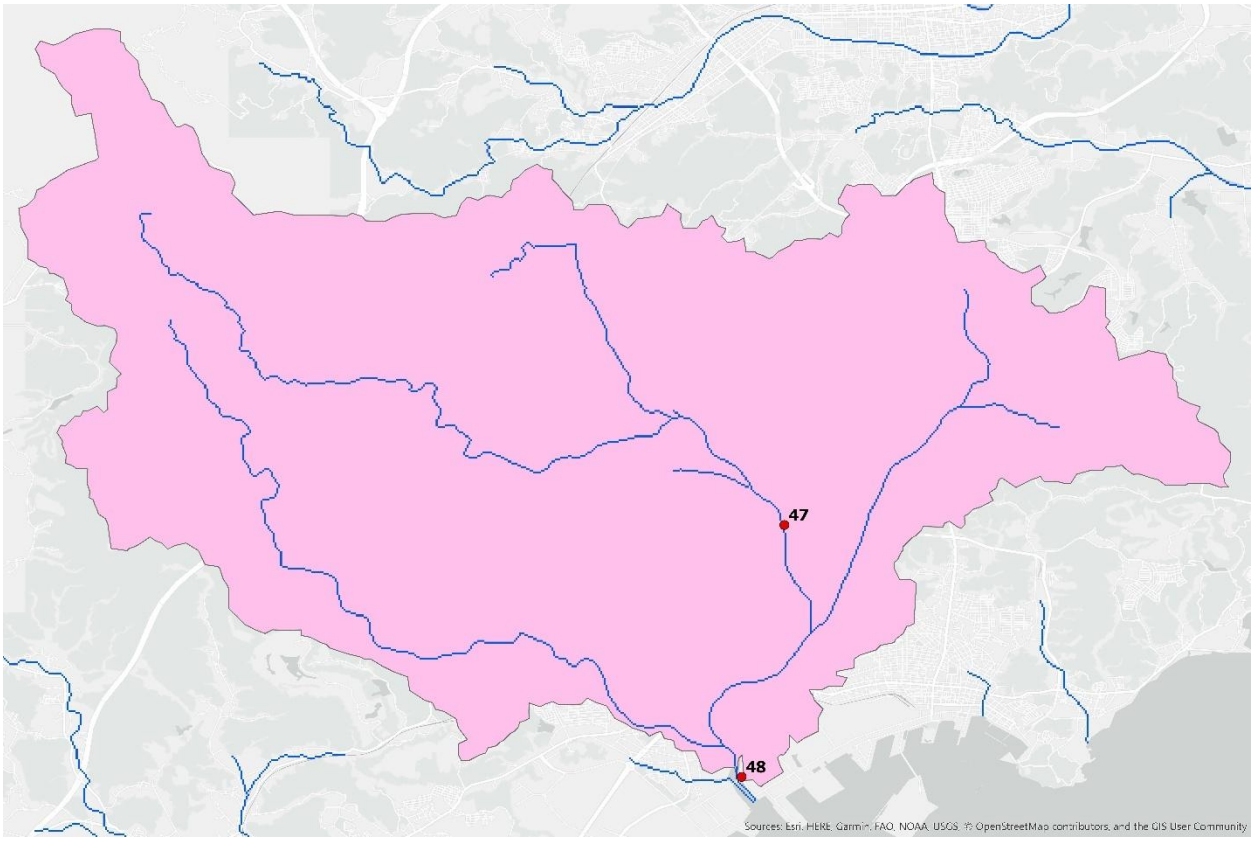
45 Yoshima River Iwaanatsuri Bridge Iwaki City



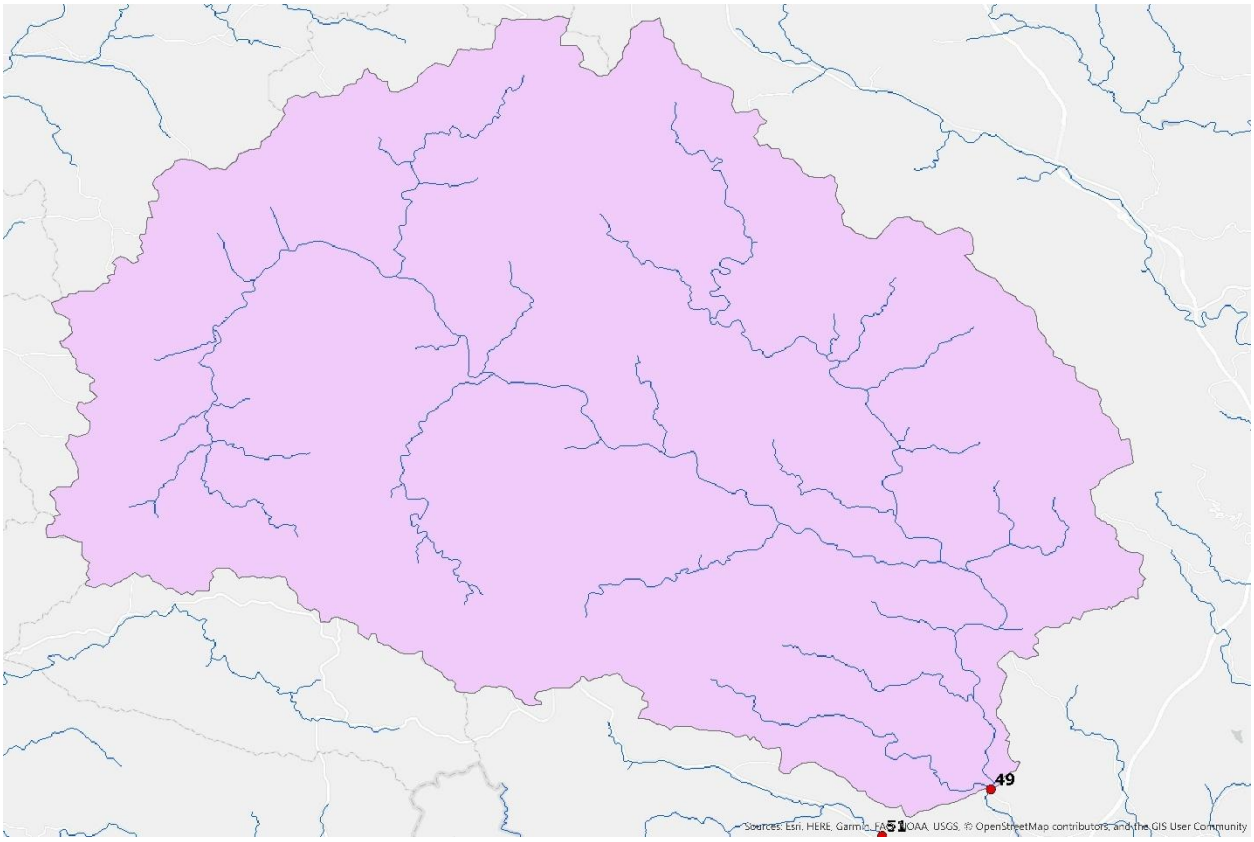
46 Yoshima River Before the confluence with Natsui River Iwaki City



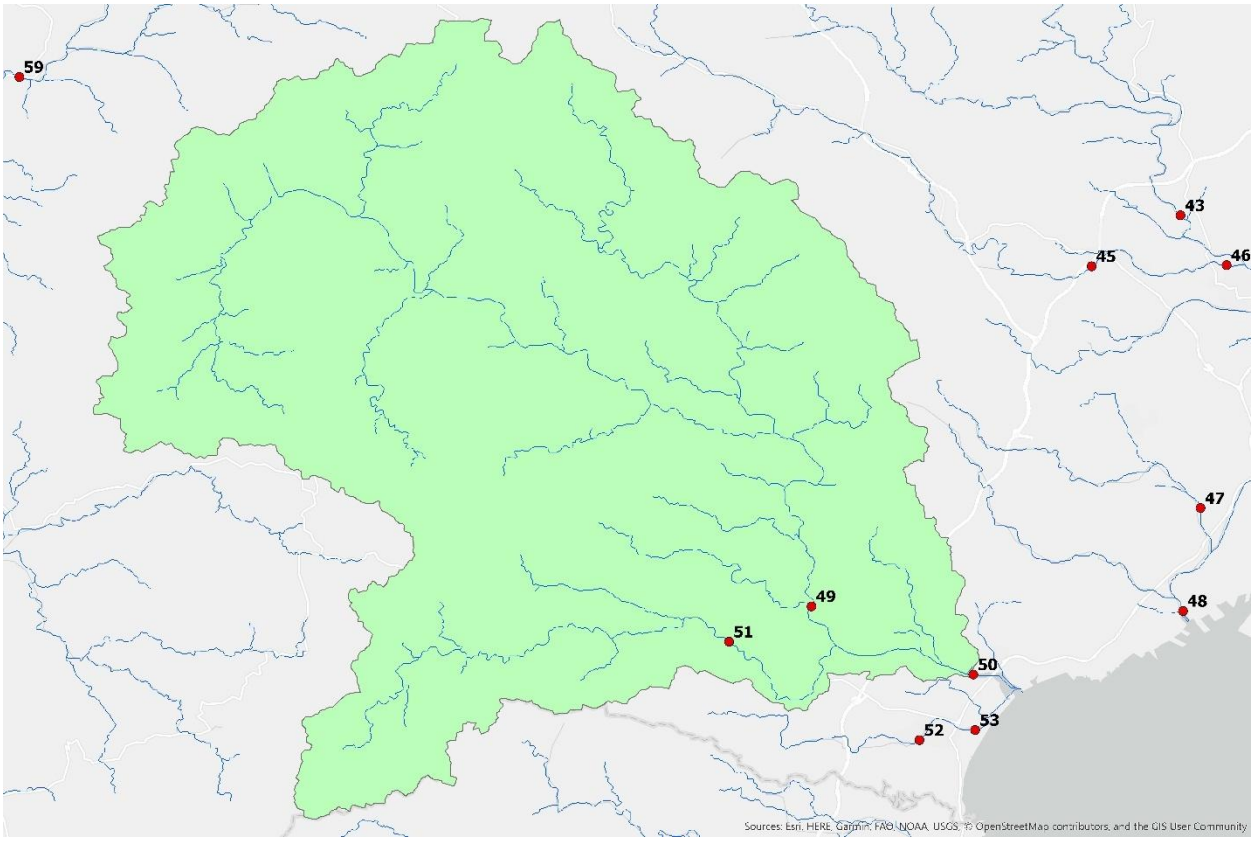
47	Fujiwara River	Shima Bridge	Iwaki City



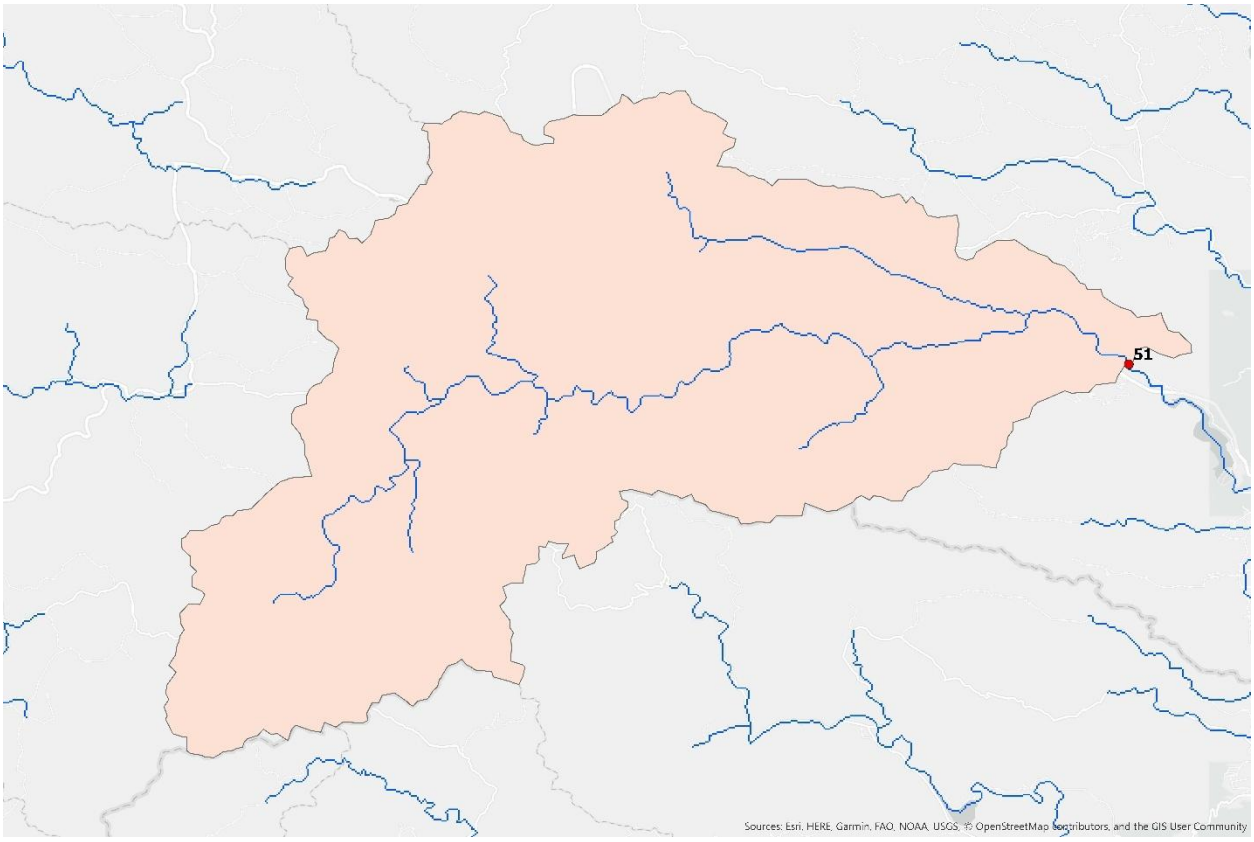
48 Fujiwara River Minato-ohashi Bridge Iwaki City



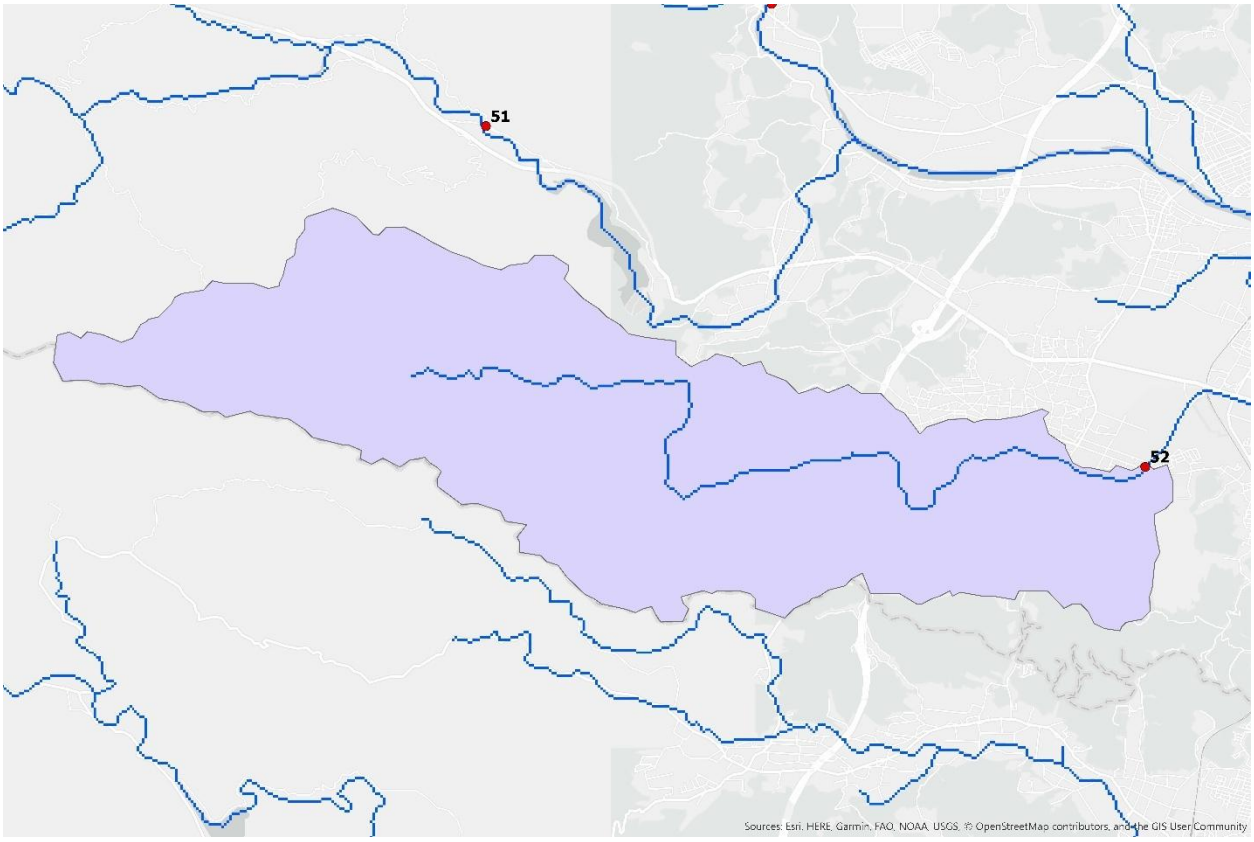
49 Samegawa River Idosawa Bridge Iwaki City



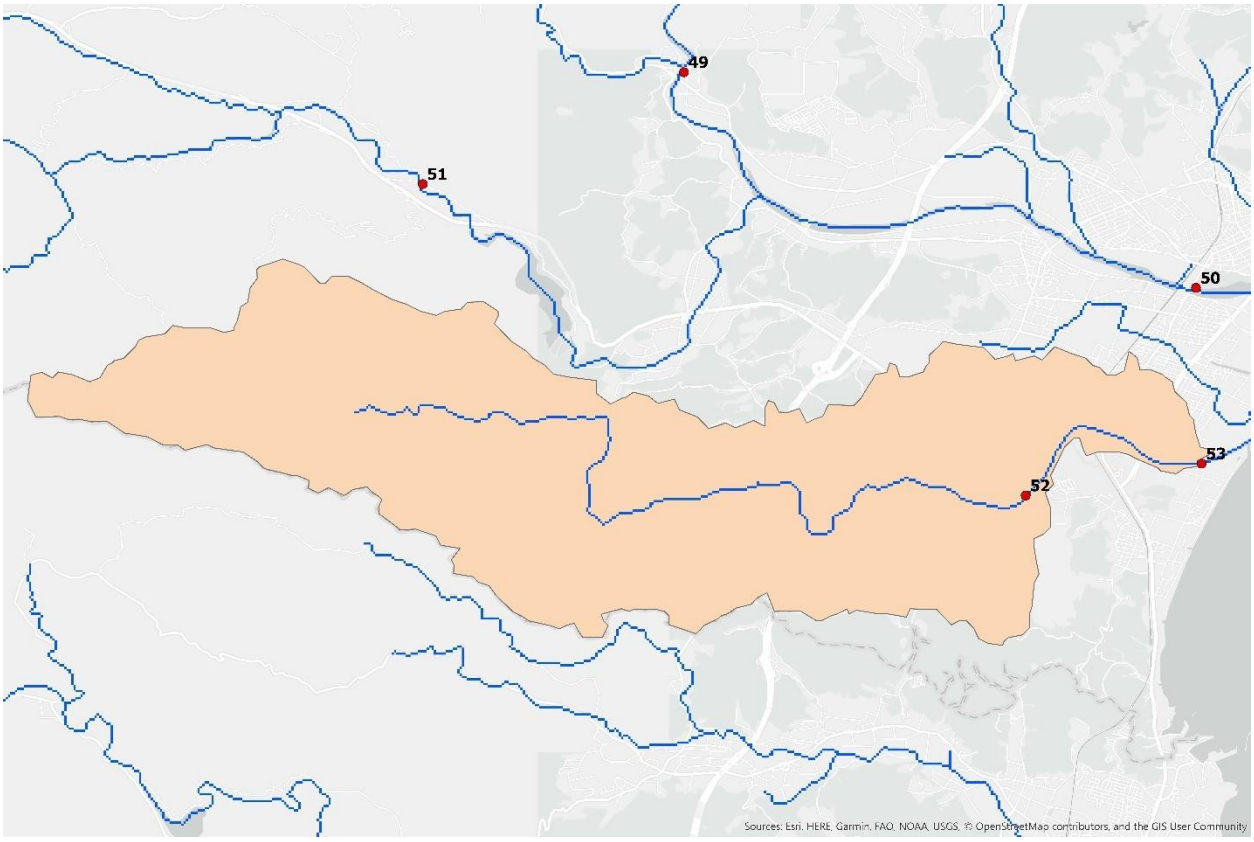
50 Samegawa River Samegawa Bridge Iwaki City



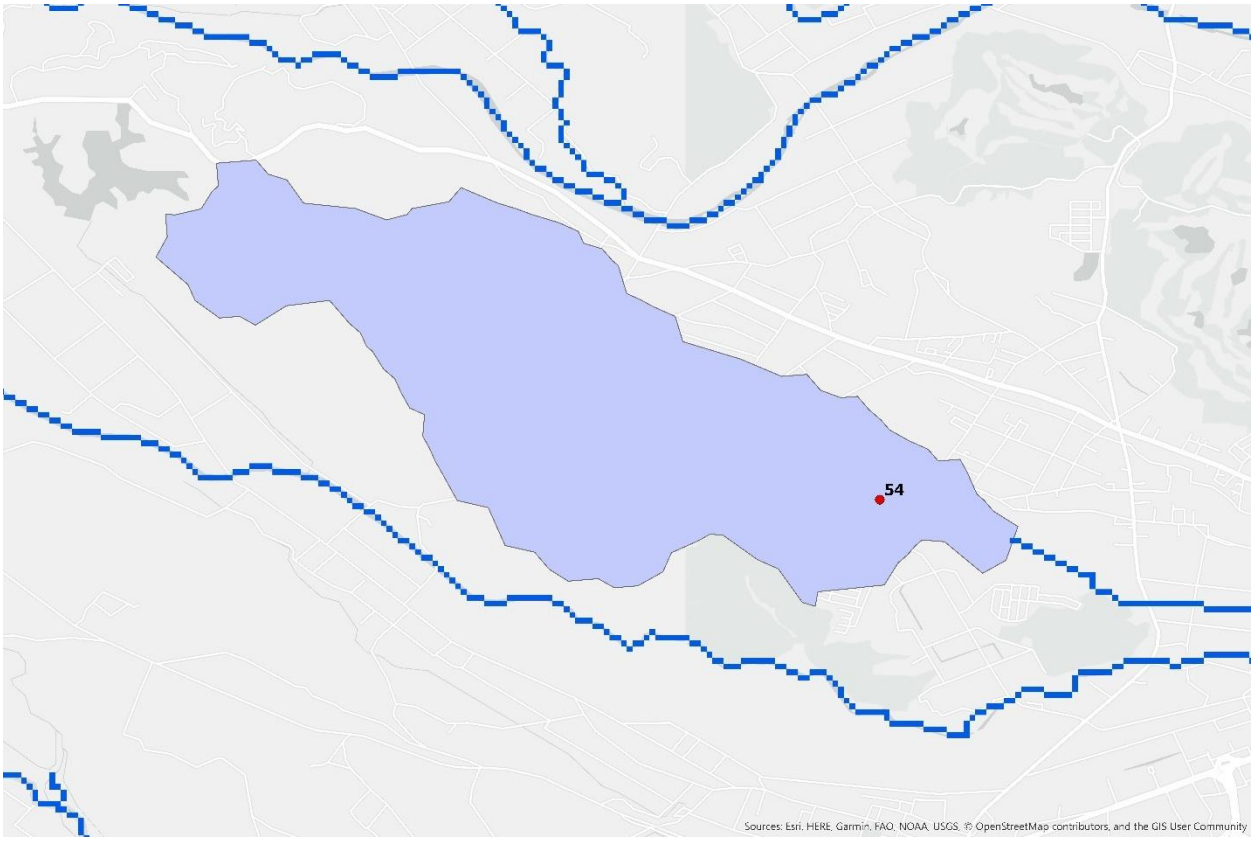
51 Shitoki River Komuro Bridge Iwaki City



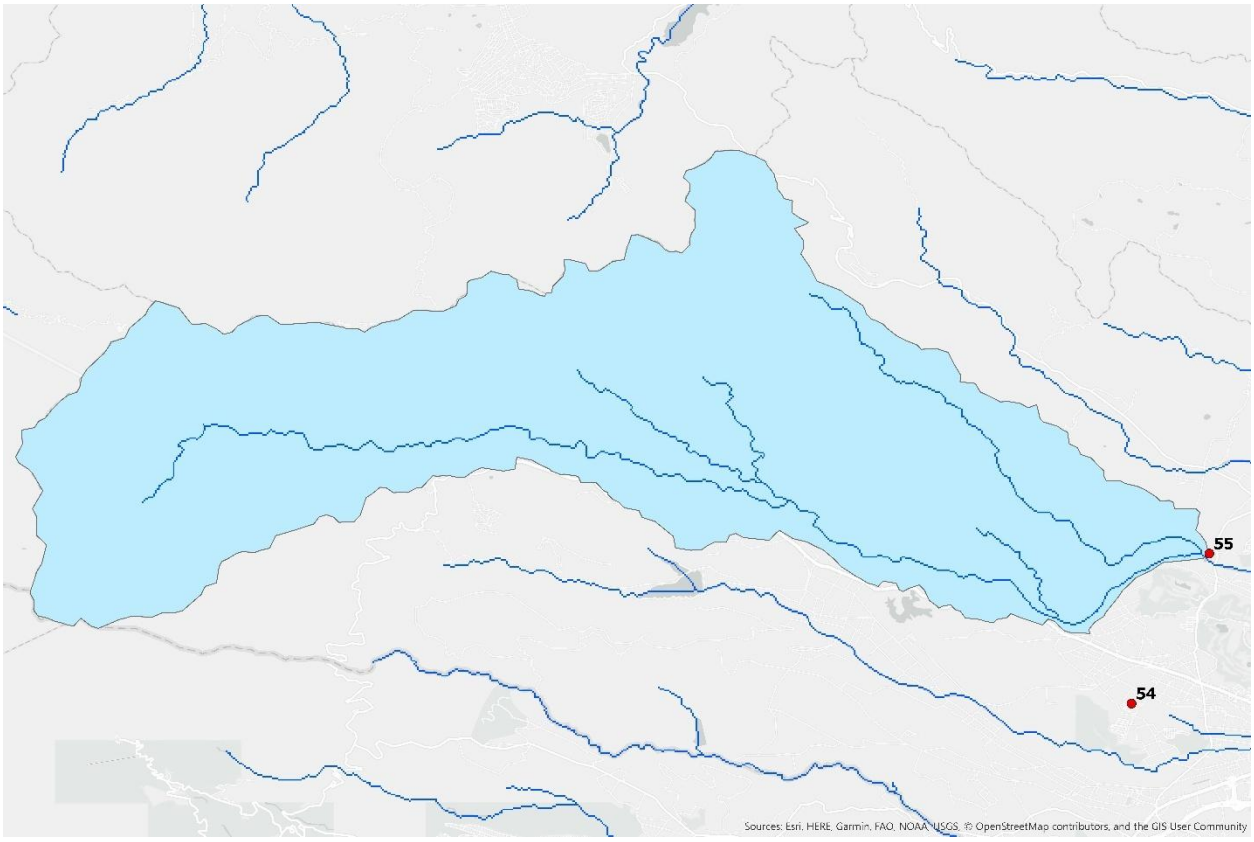
52 Binda River Kobana Bridge Iwaki City



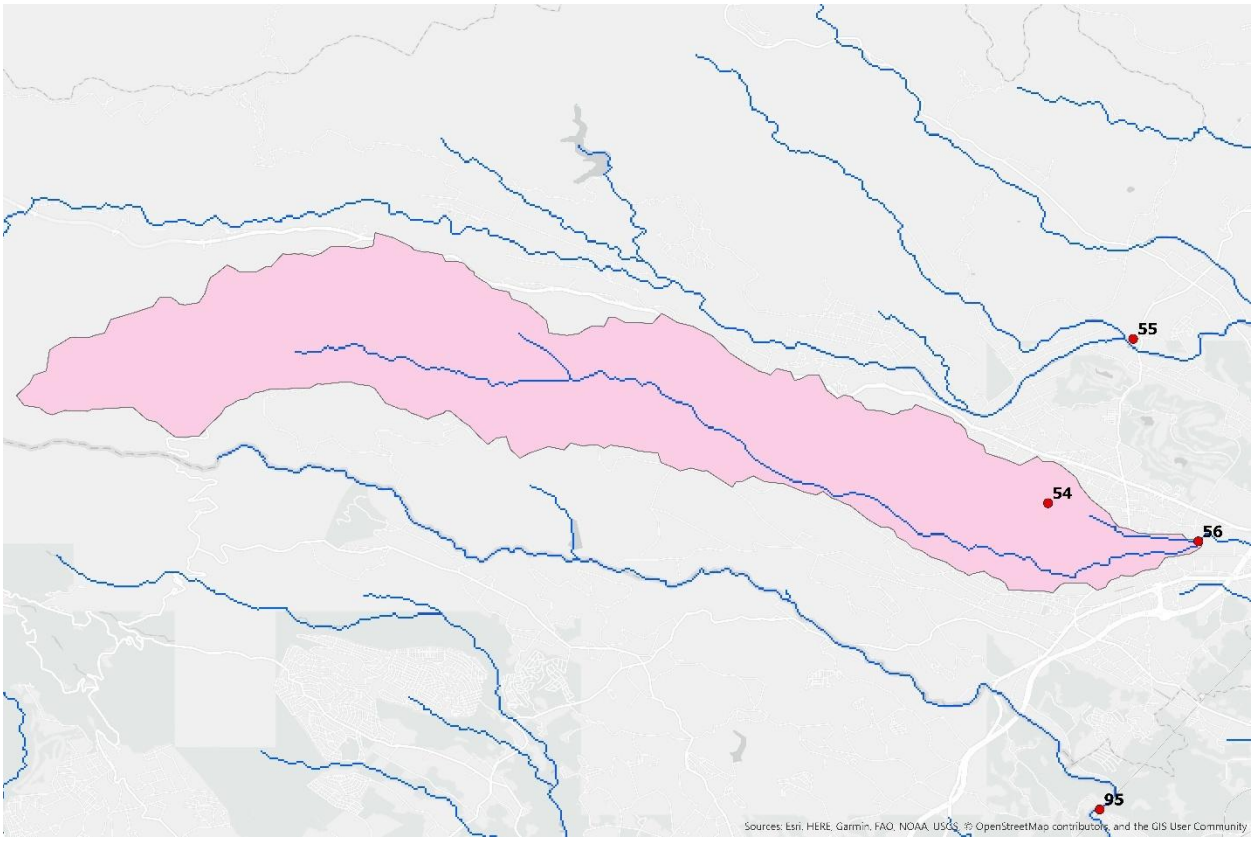
53 Binda River Binda Bridge Iwaki City



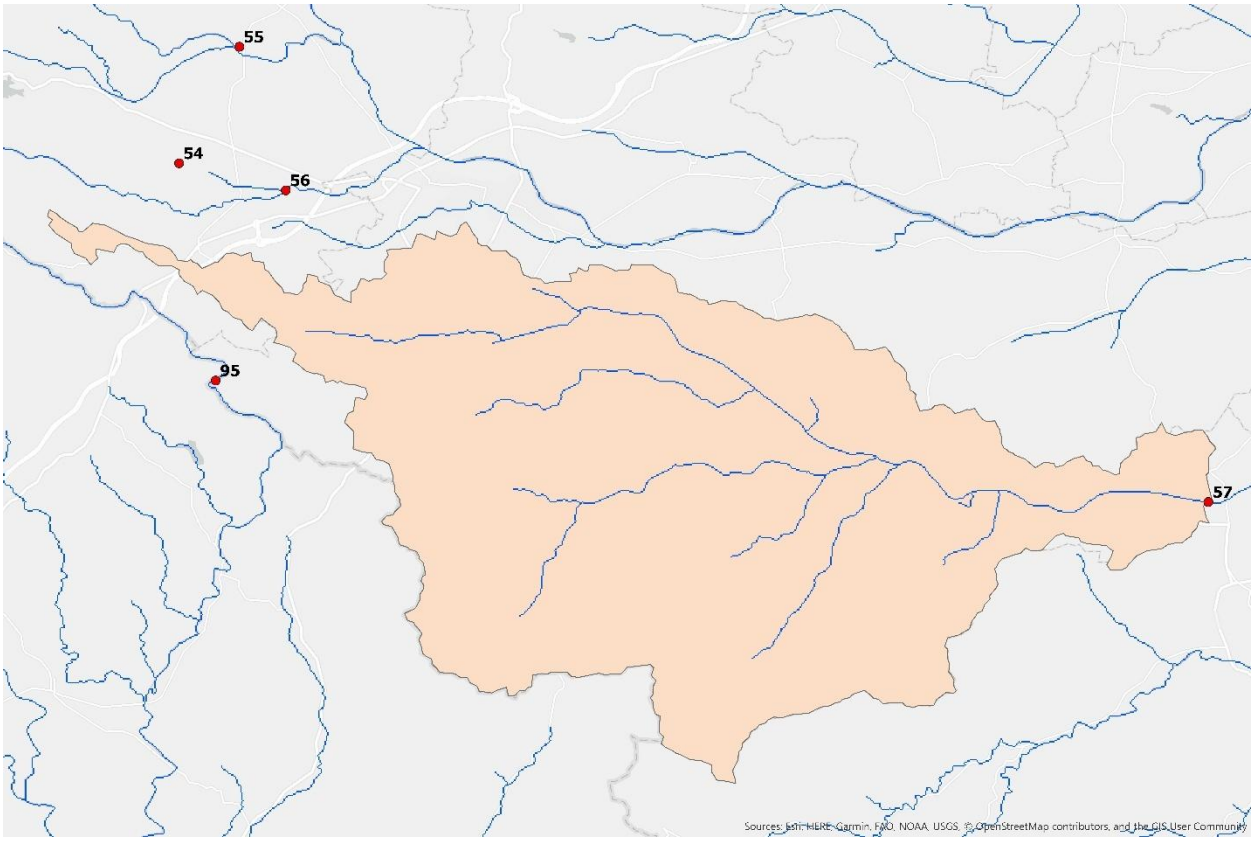
54 Abukuma River Habuto Bridge Nishigo Village



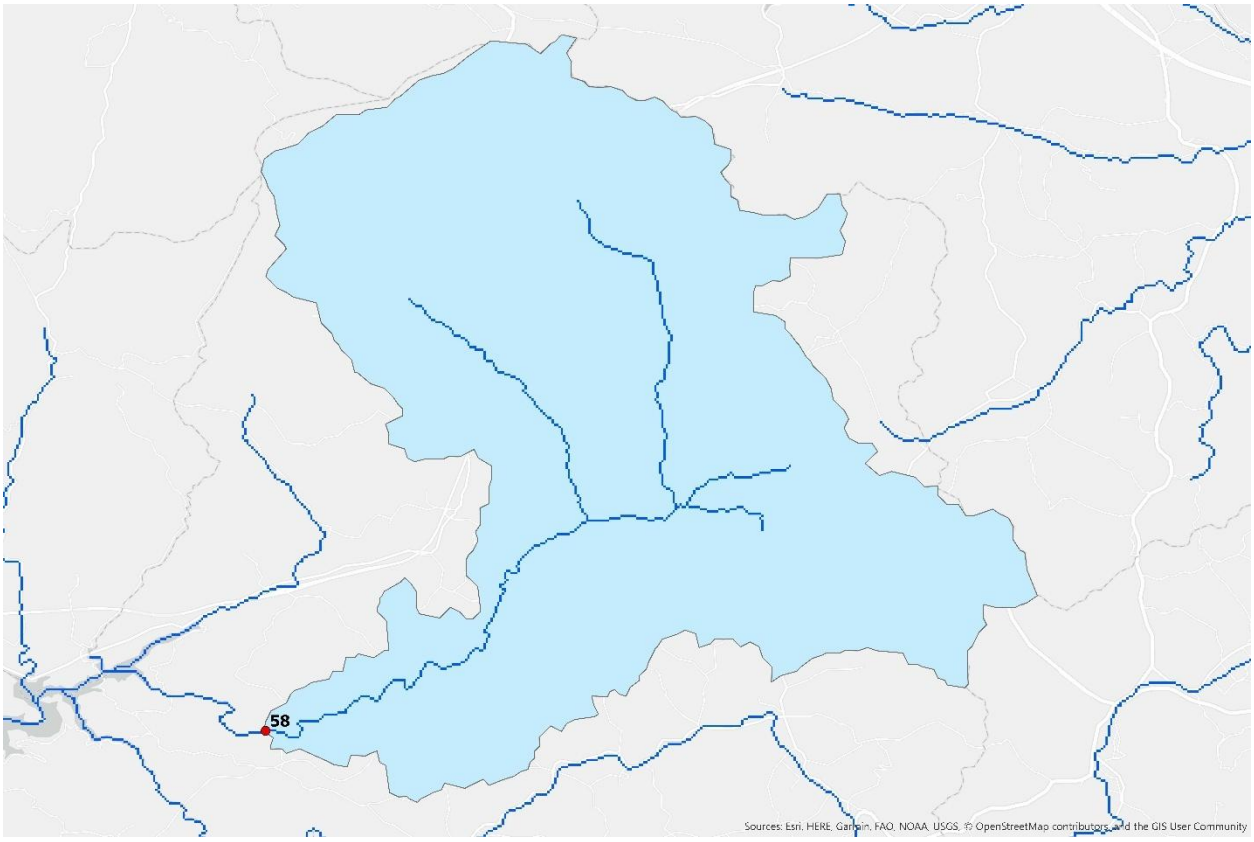
55 Abukuma River Tamachi-ohashi Bridge Shirakawa City



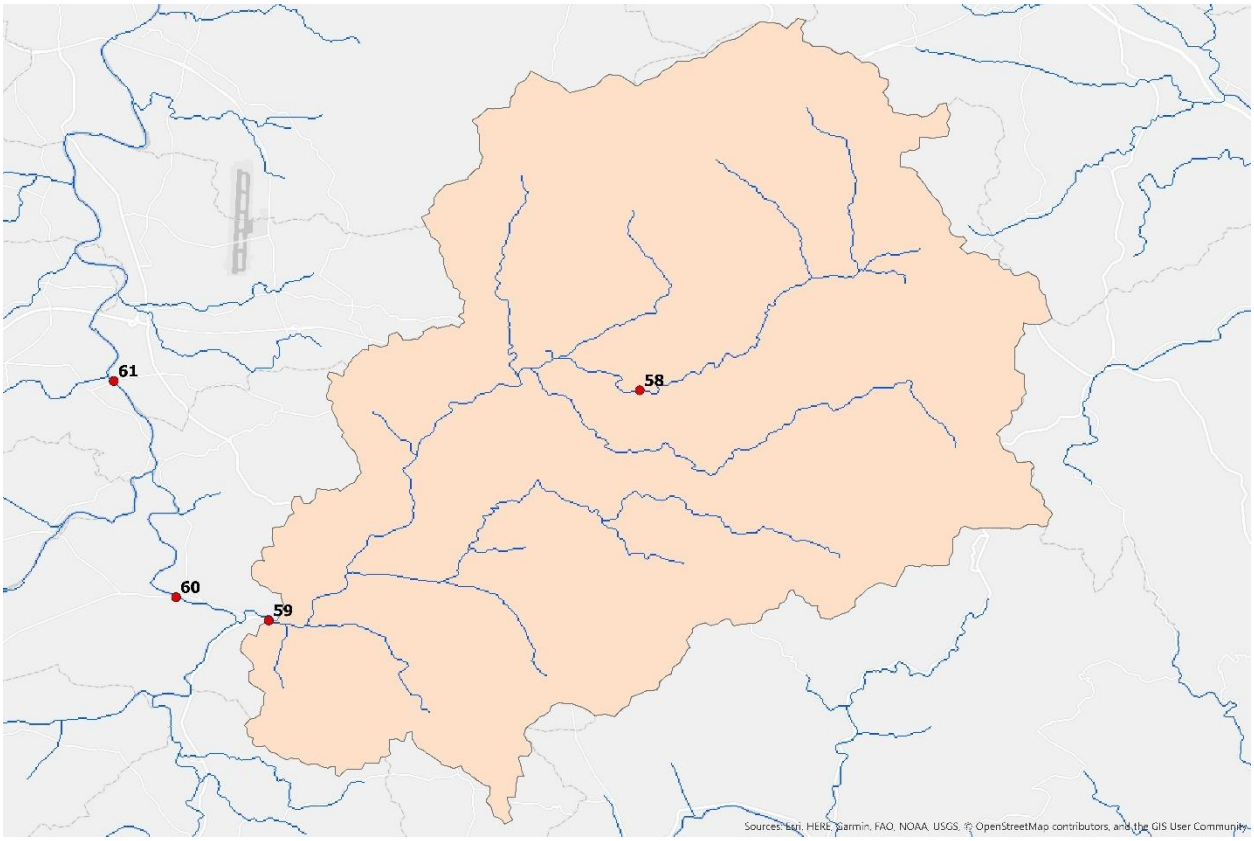
56	Yanta River	Before the confluence with	Abukuma River	Shirakawa City



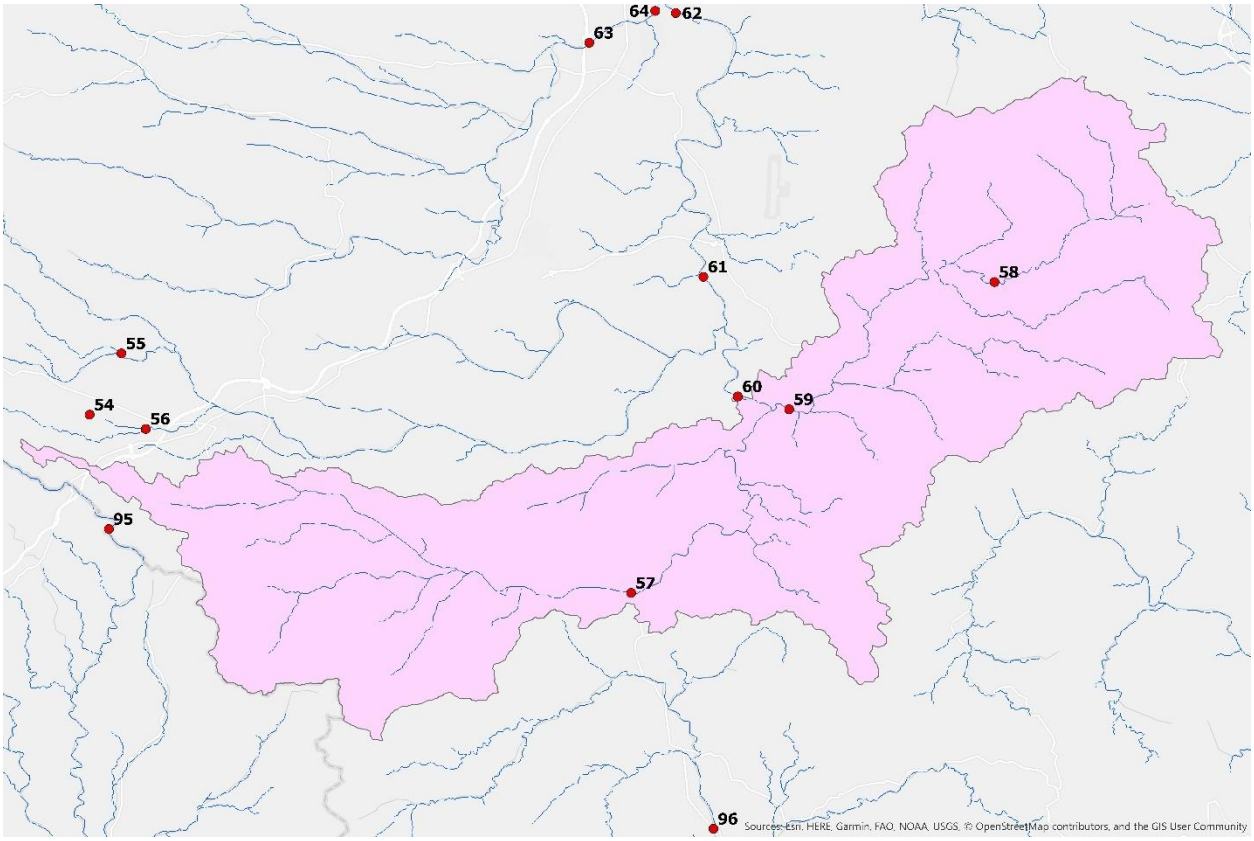
57 Yashiro River Yashirogawa Bridge Tanagura Town



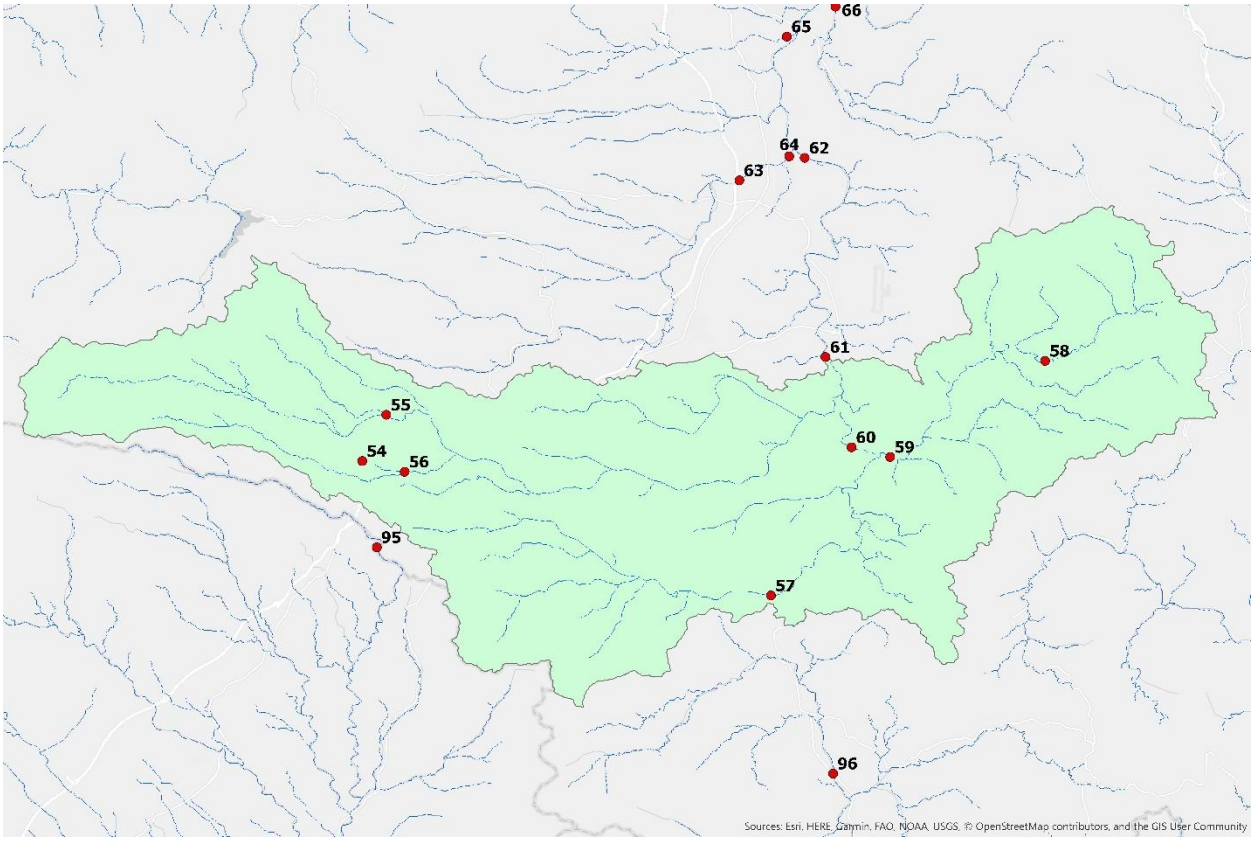
58 Kitasu River Yanagi Bridge Hirata Village



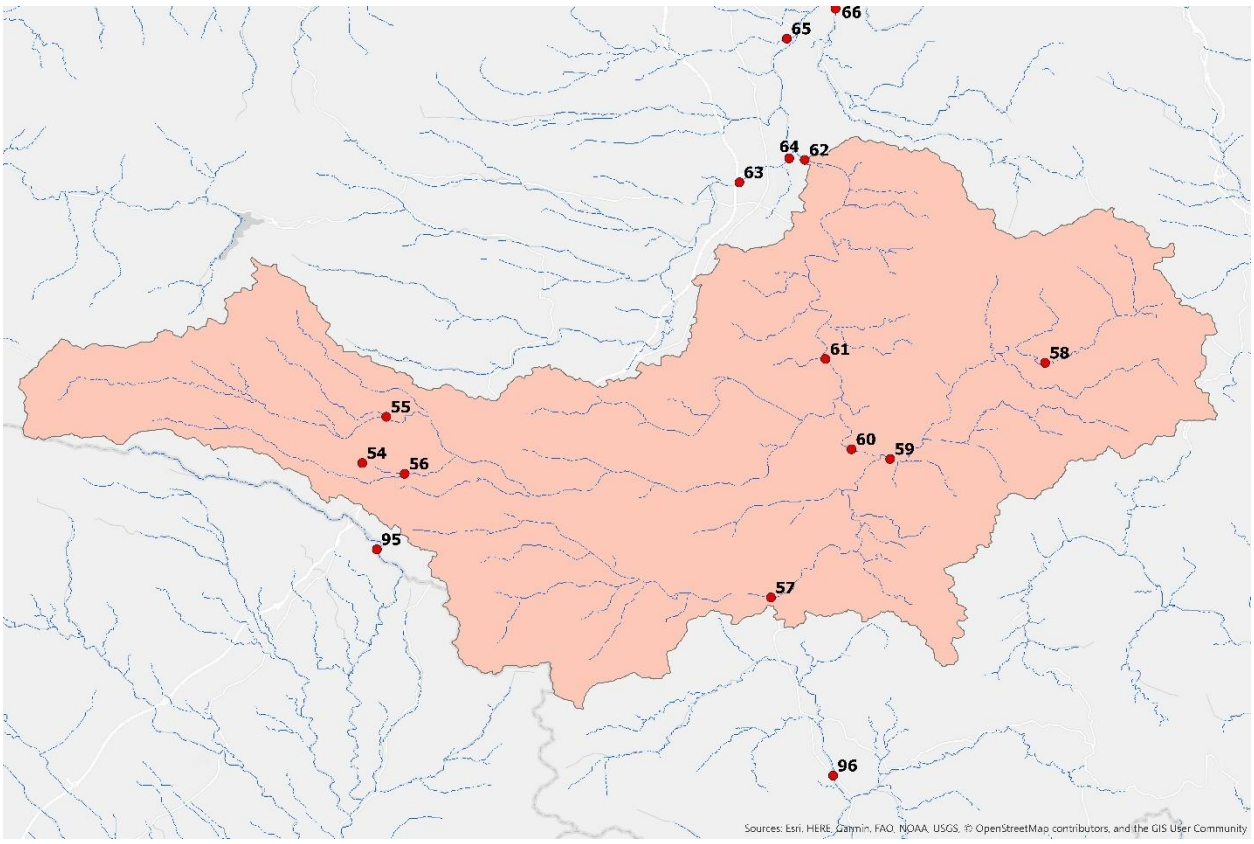
59 Kitasu River Nekonaki Bridge Ishikawa Town



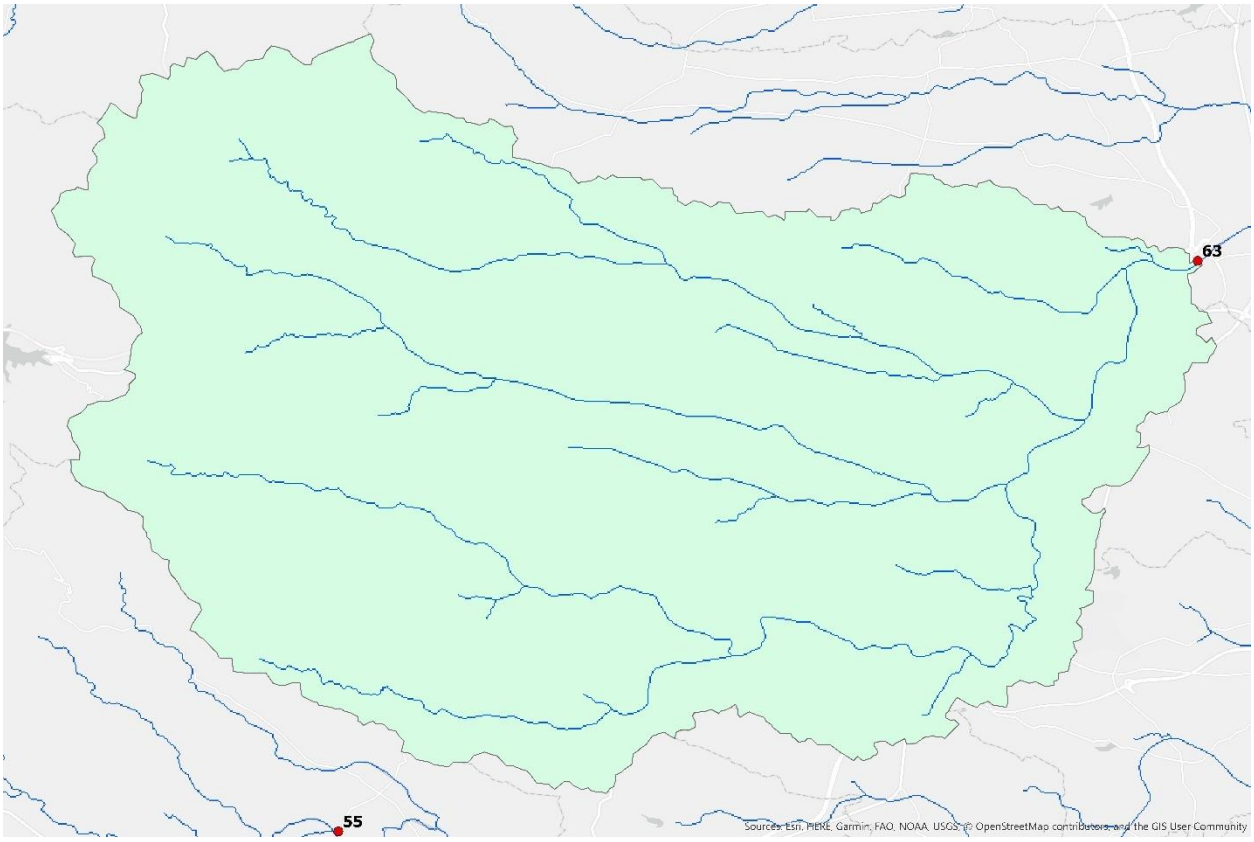
60 Yashiro River Oji Bridge Ishikawa Town



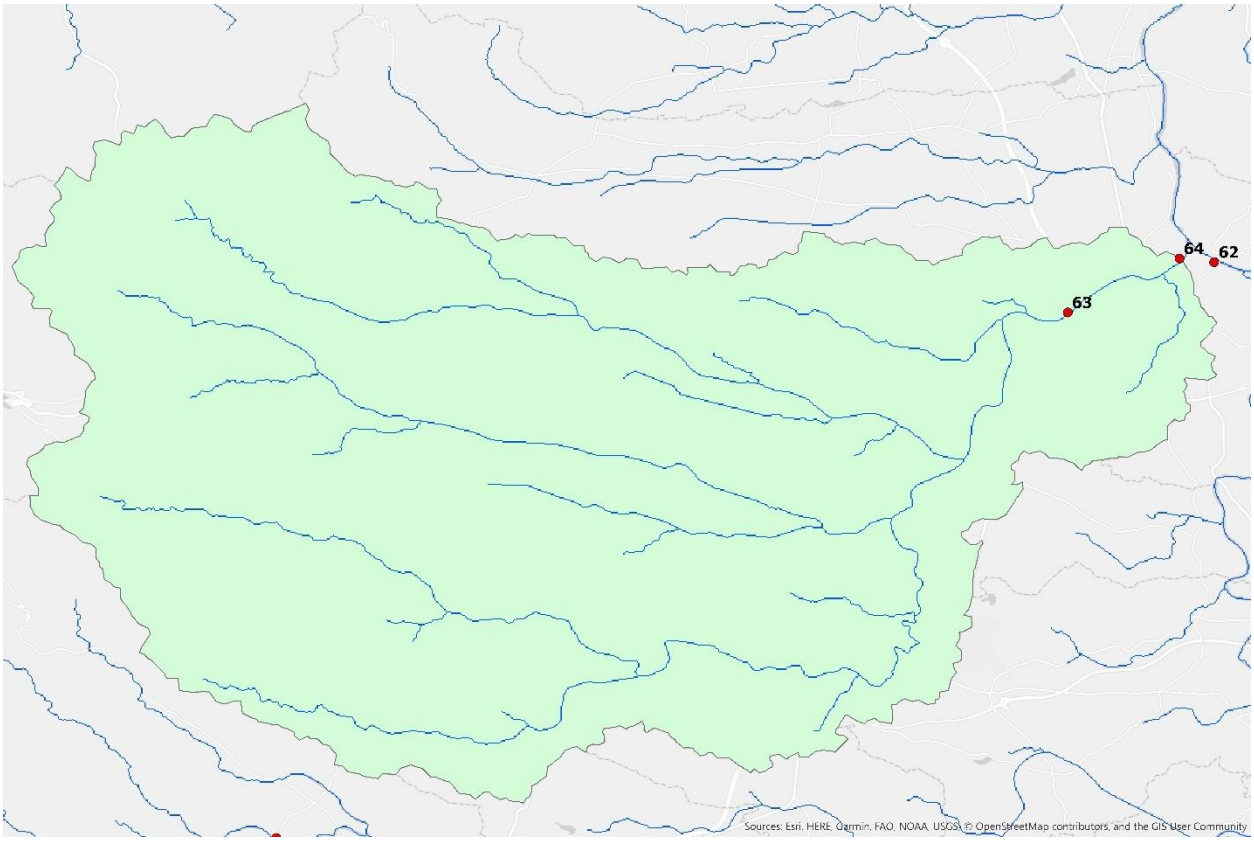
61 Abukuma River Kawanome Bridge Tamakawa Village/ Yabuki Town



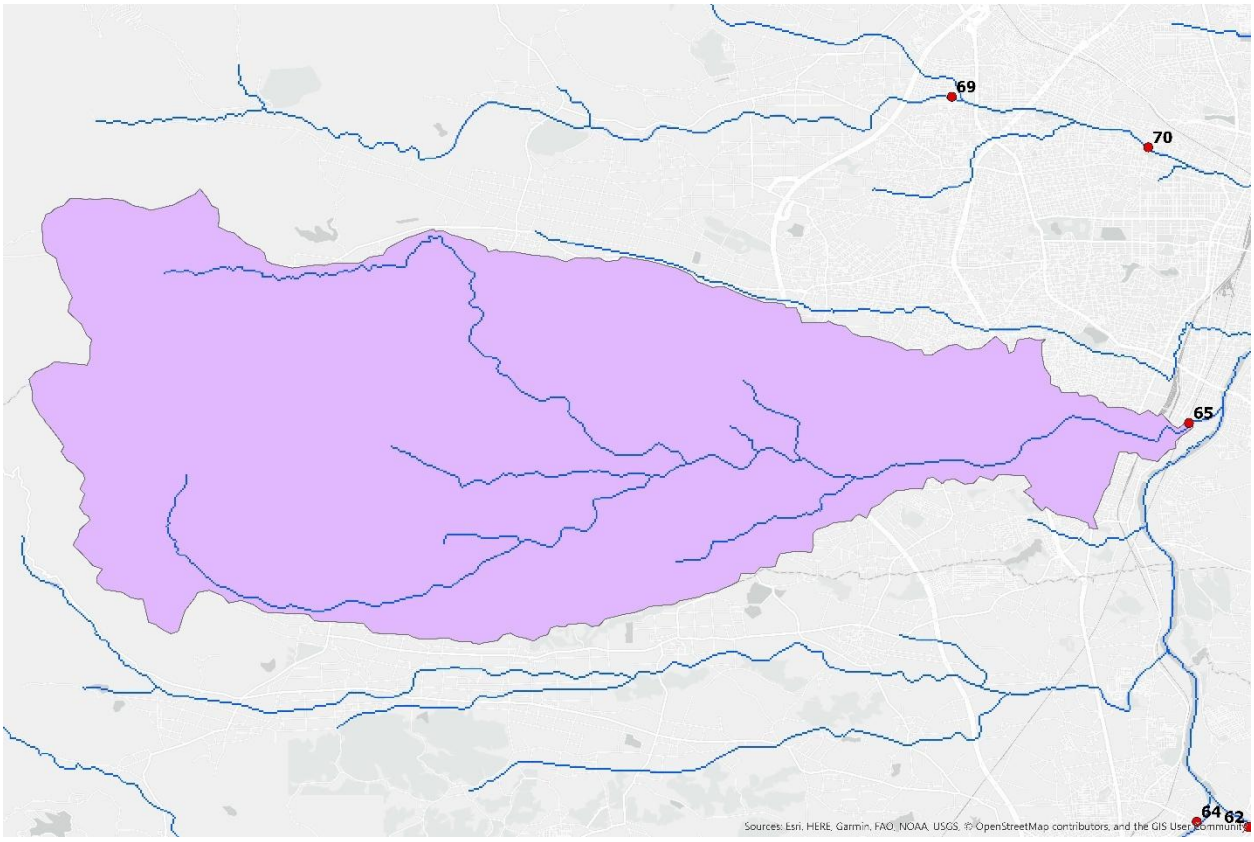
62 Abukuma River Emochi Bridge Sukagawa City



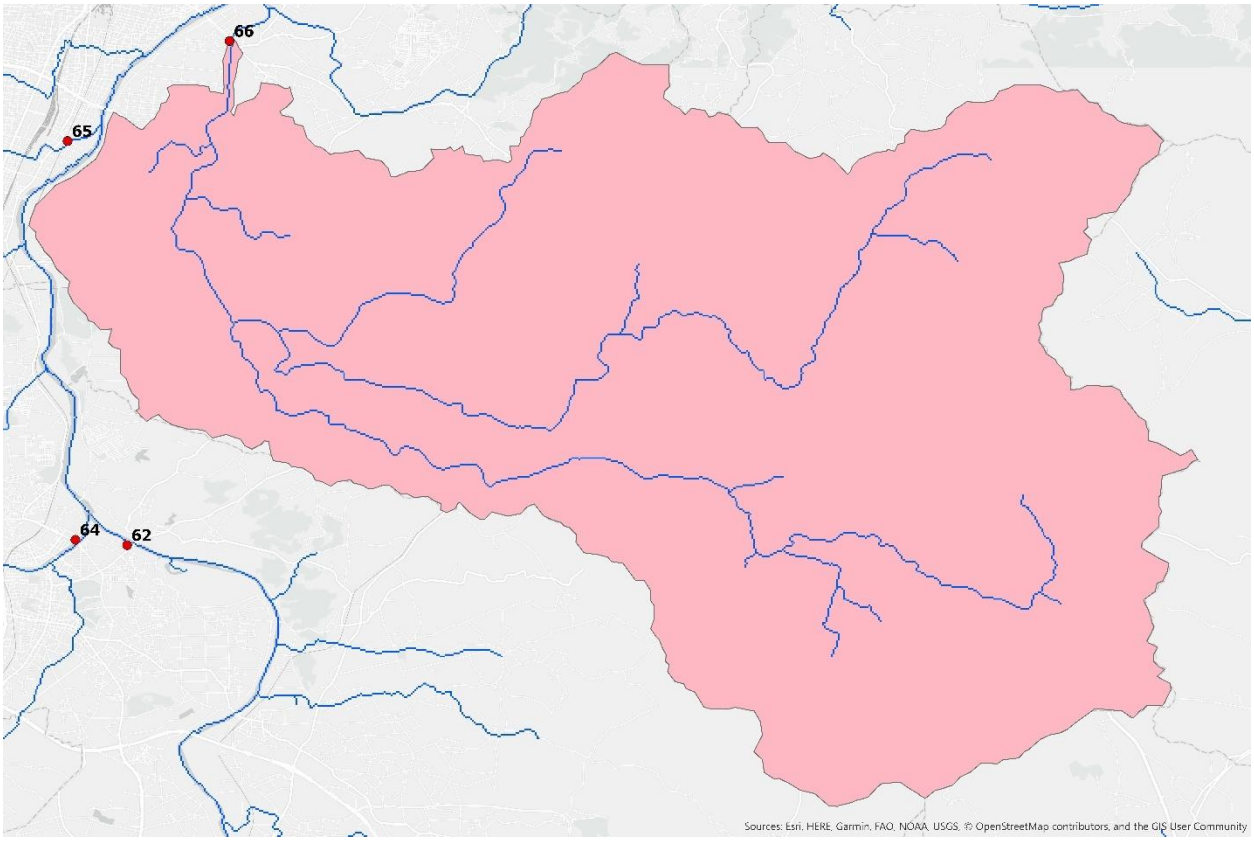
63 Shakado River Sukagawa City water intake point Sukagawa City



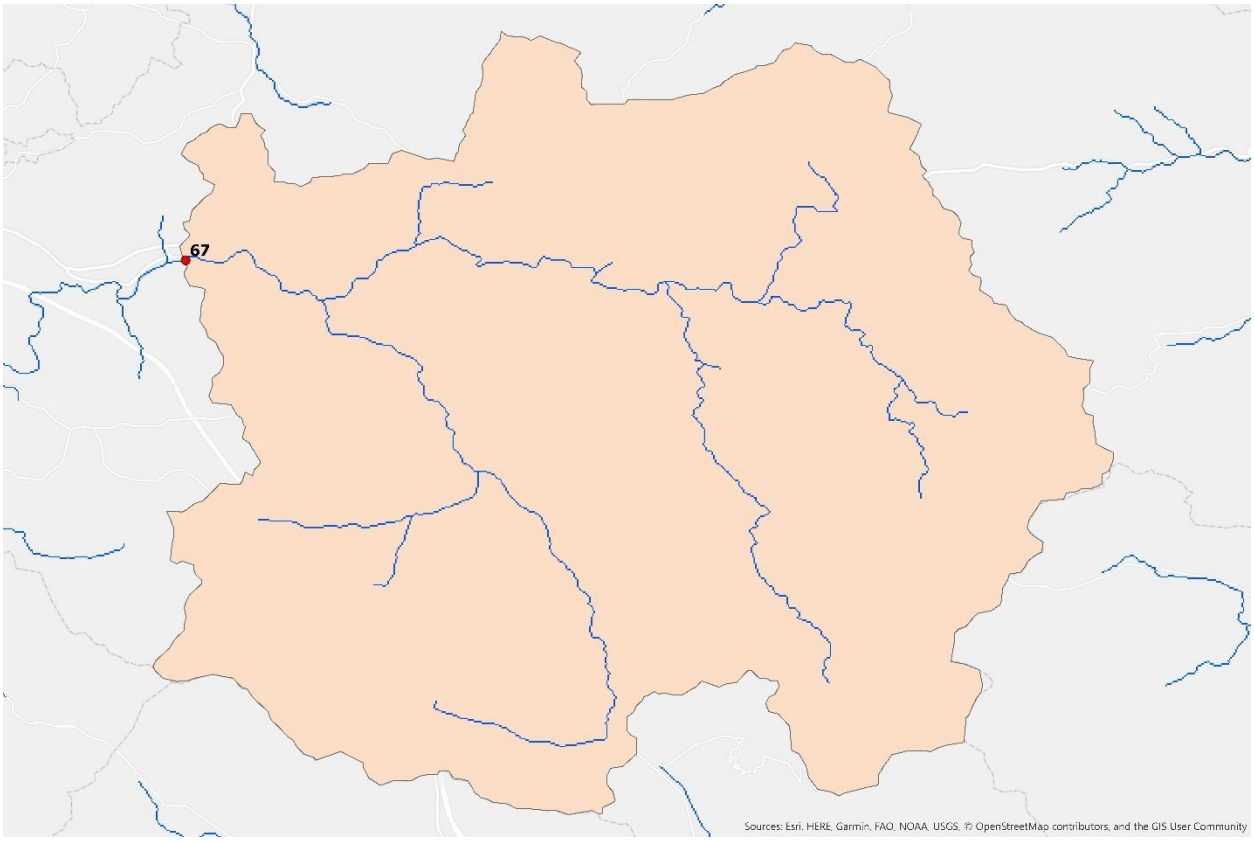
64 Shakado River Before the confluence with Abukuma River Sukagawa City



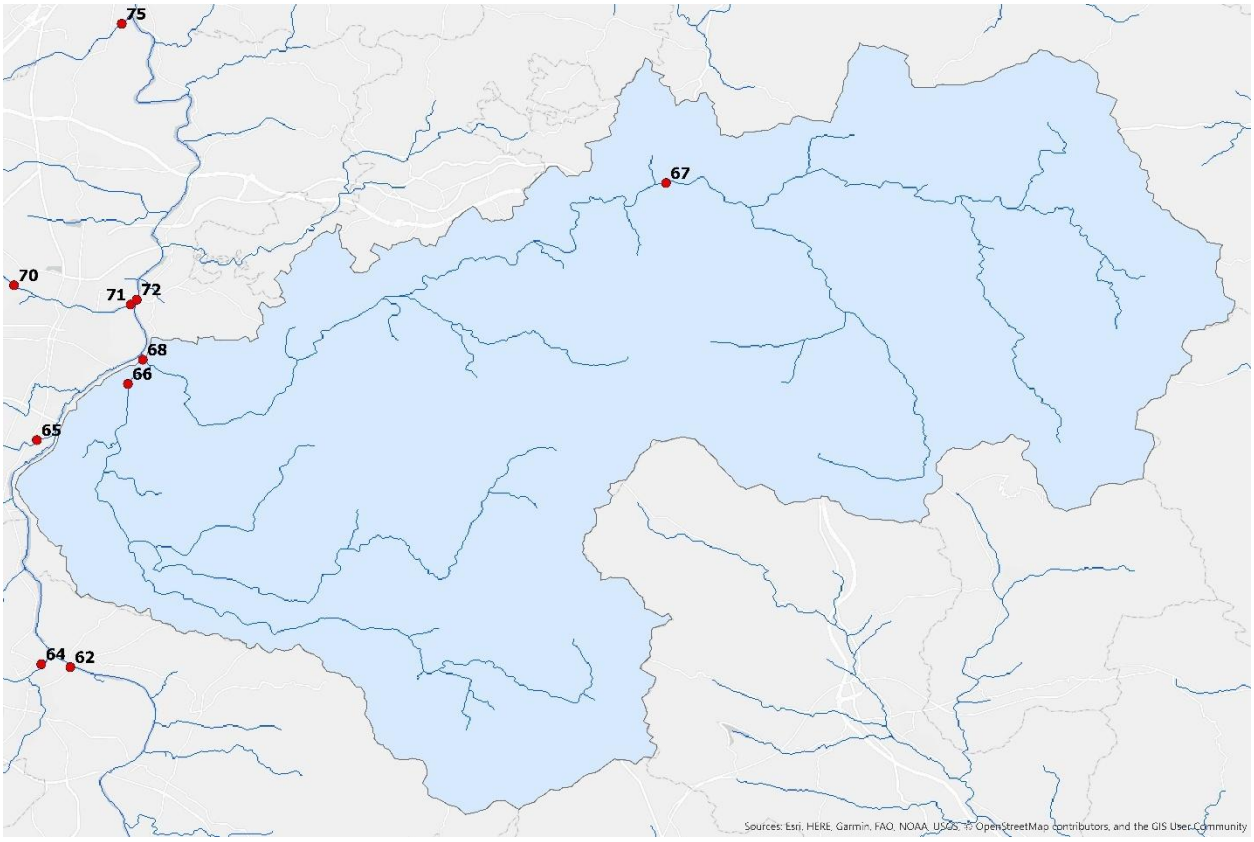
65 Sasahara River Shinbashi Bridge Koriyama City



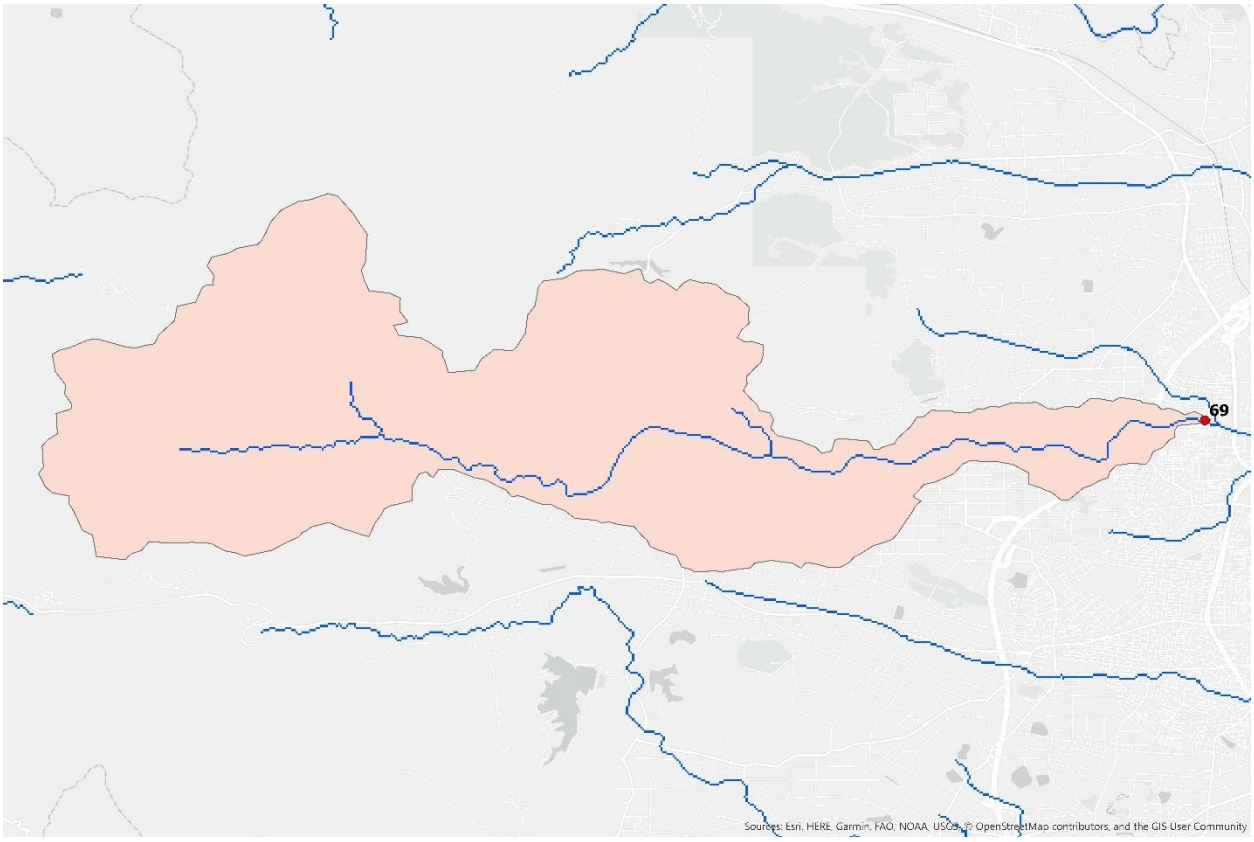
66 Yatagawa River Yatagawa Bridge Koriyama City



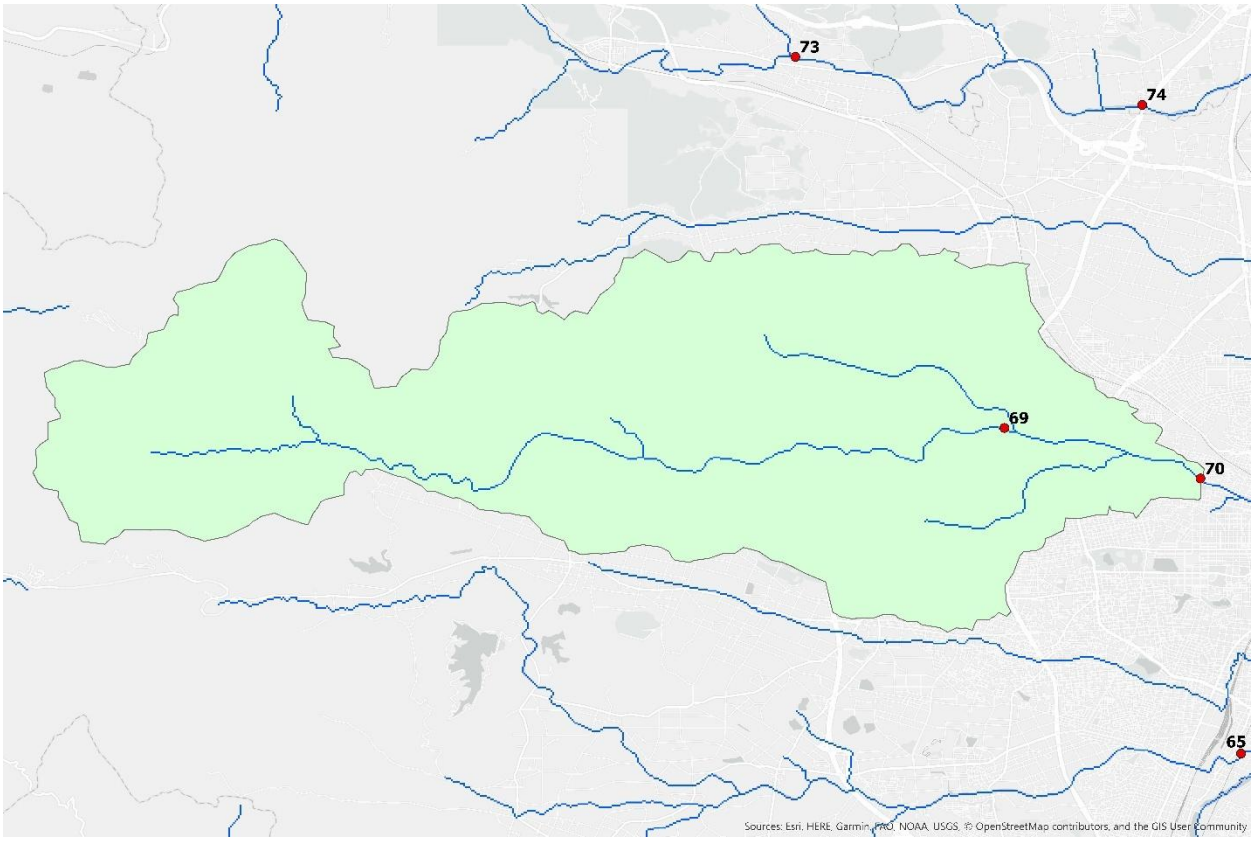
67 Otakine River Funehiki Bridge Tamura City



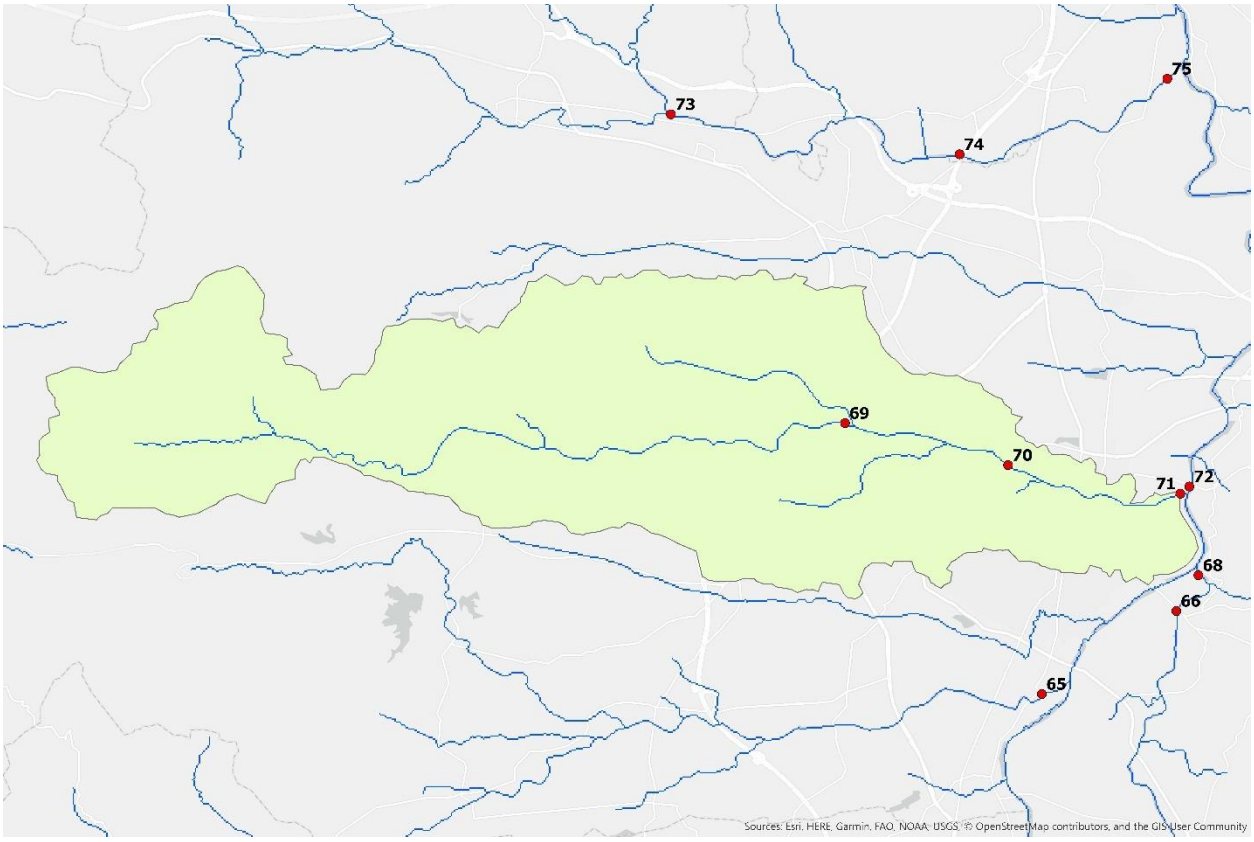
68 Otakine River Before the confluence with Abukuma River Koriyama City



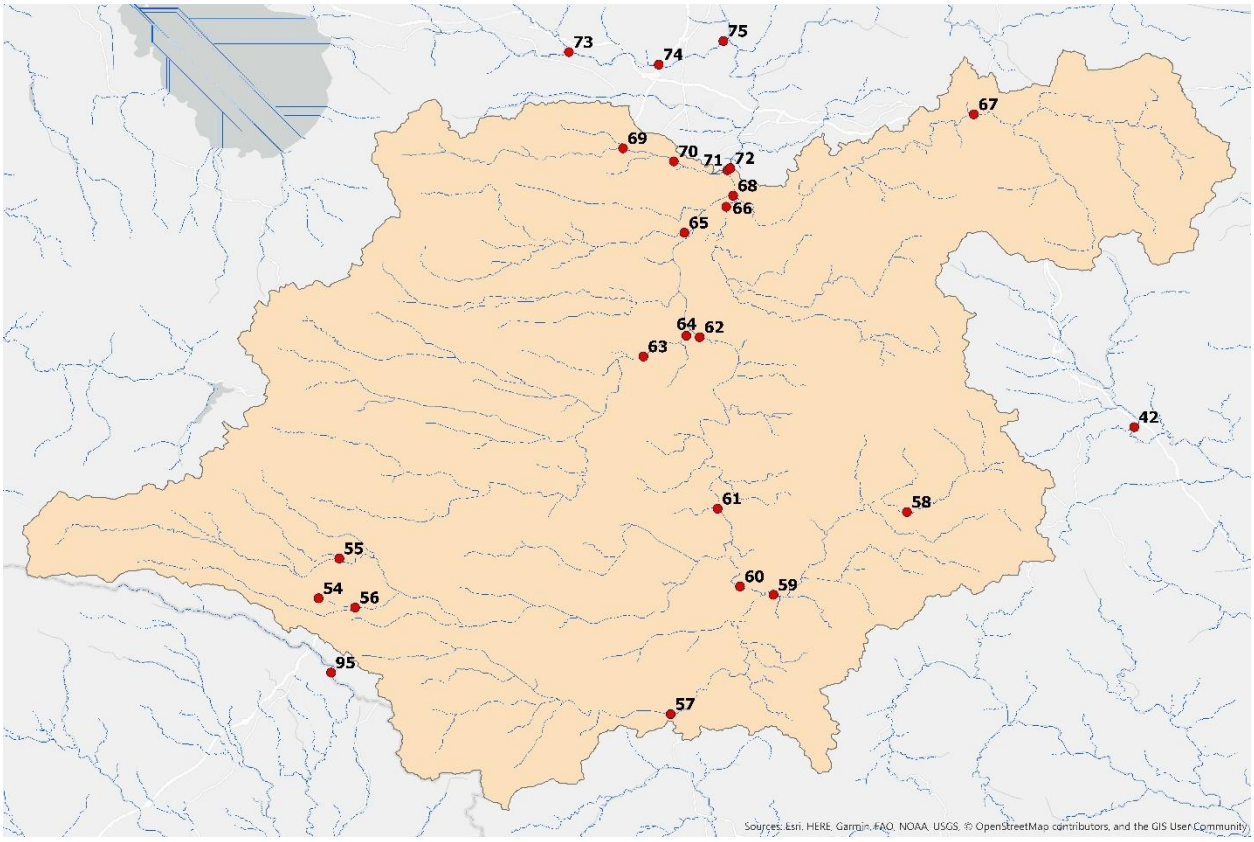
69	Ouse River	Before the confluence with	Babagawa River	Koriyama City



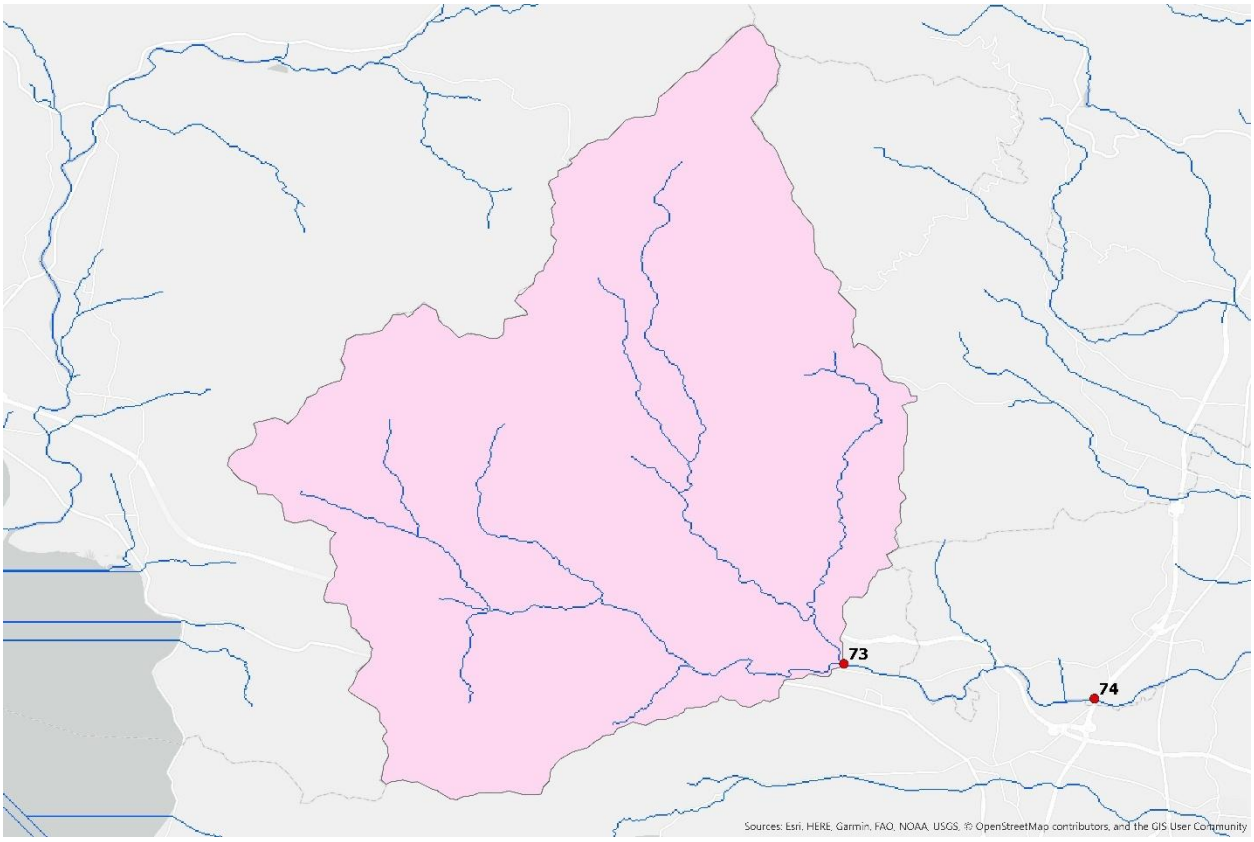
70 Ouse River Makunouchi Bridge Koriyama City



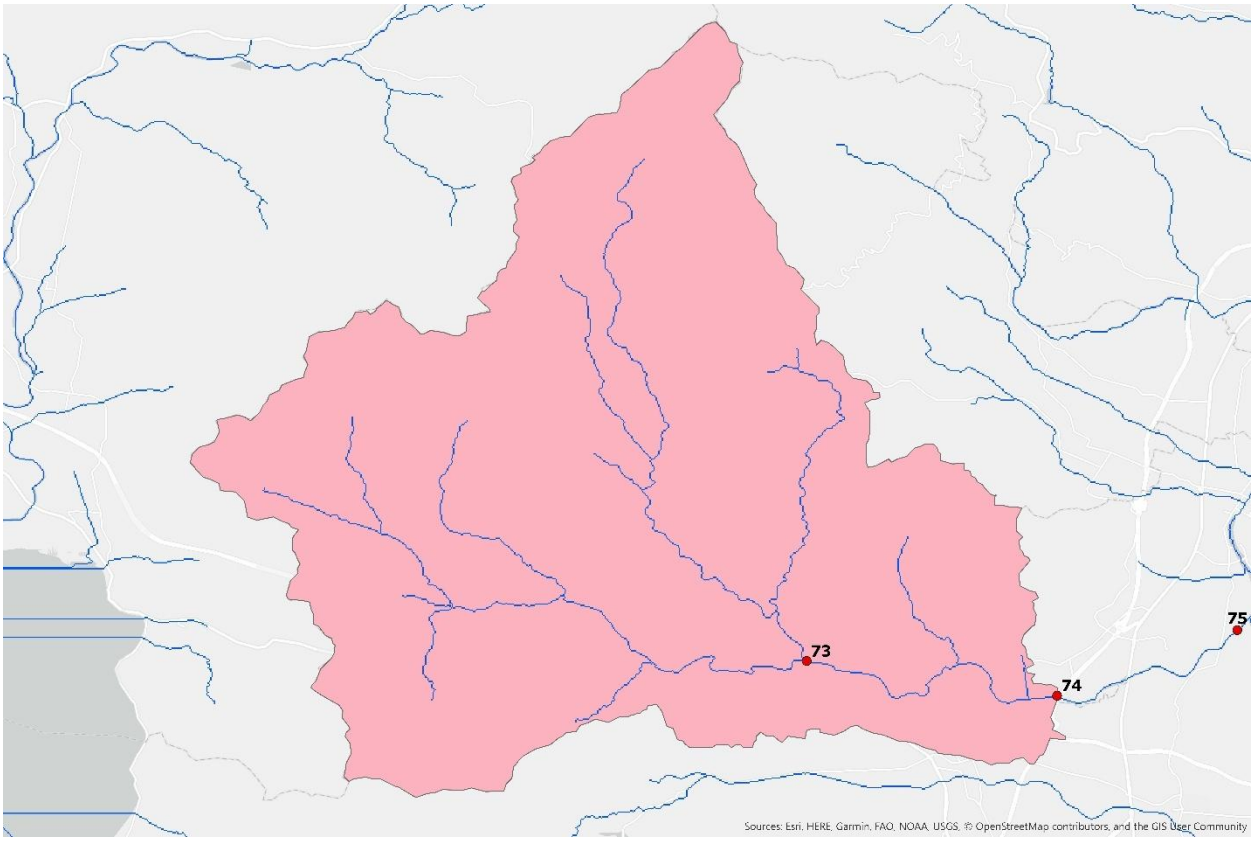
71	Ouse River	Before the confluence with	Abukuma River	Koriyama City



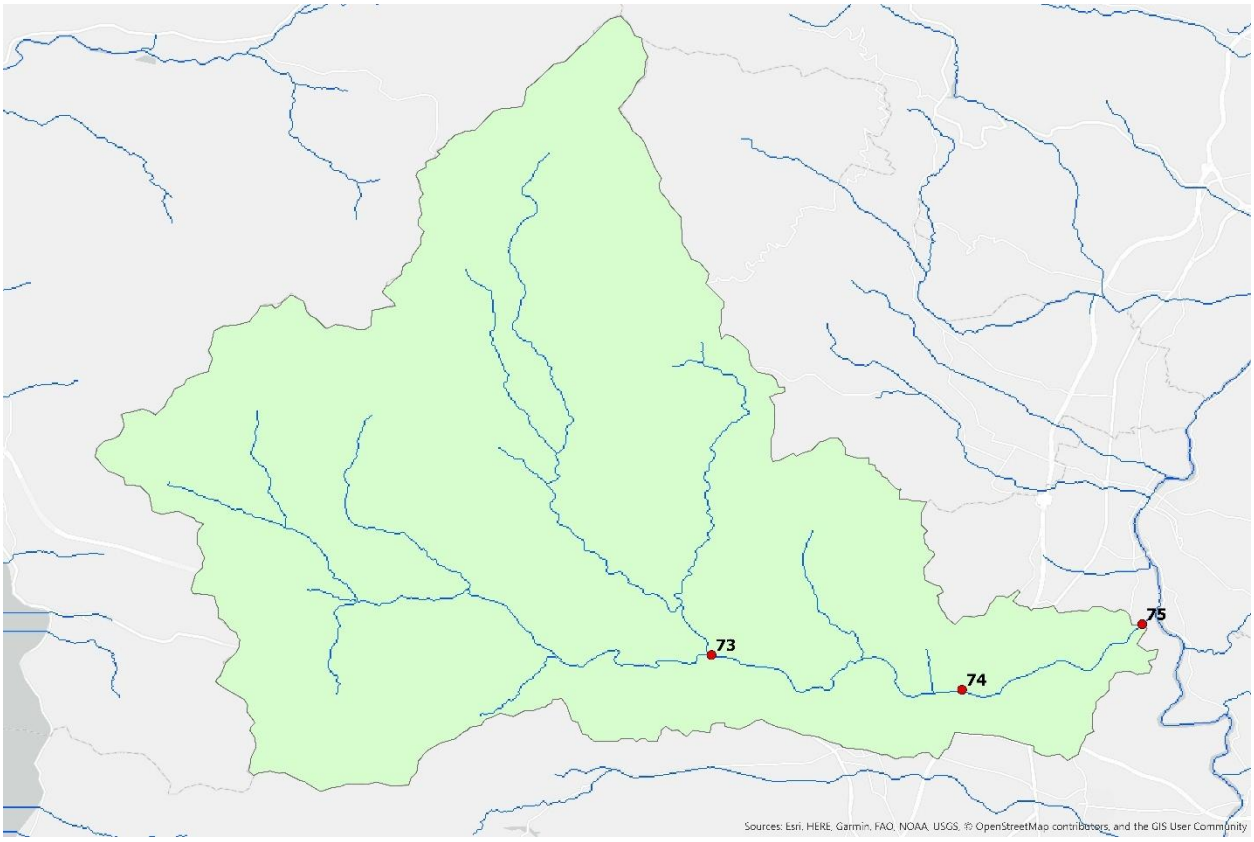
72 Abukuma River Akutsu Bridge Koriyama City



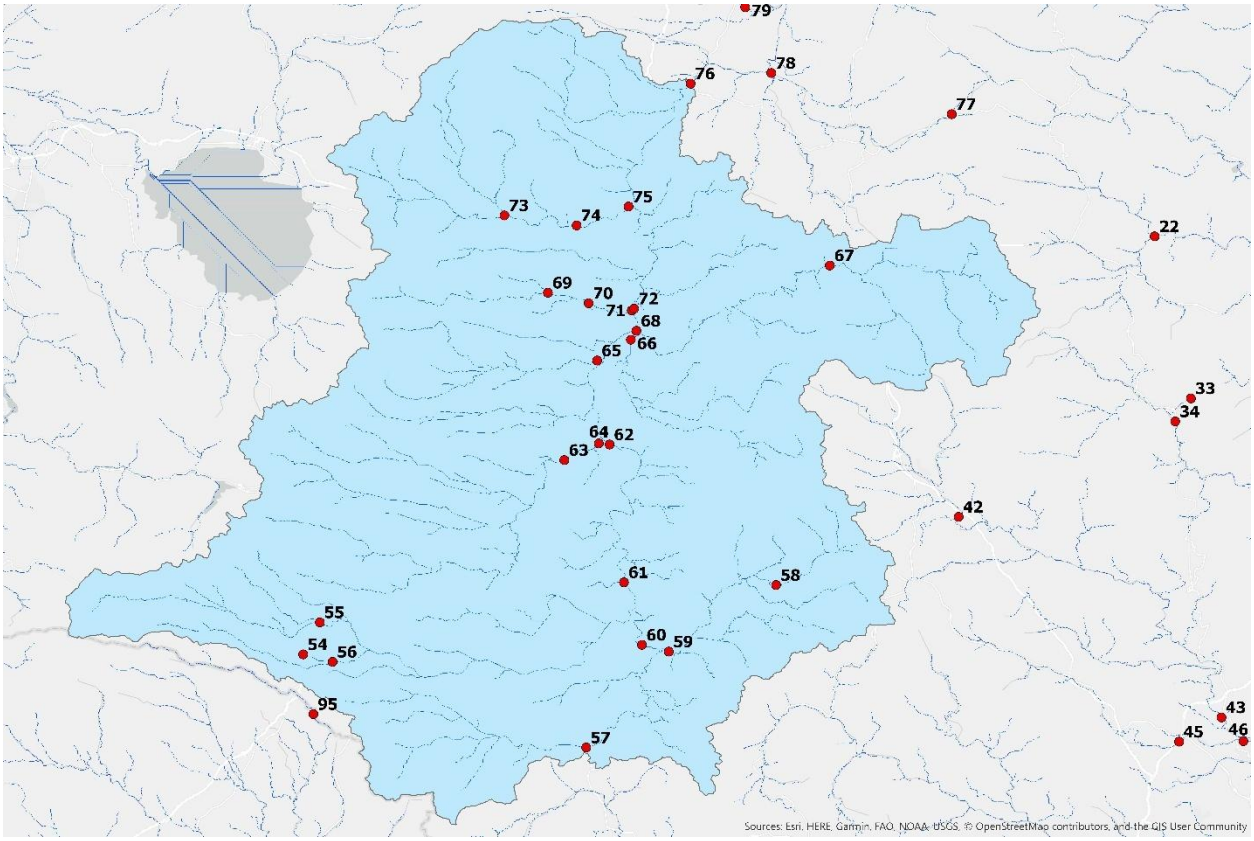
73 Gohyaku River After the confluence with Ishimushiro River Koriyama City



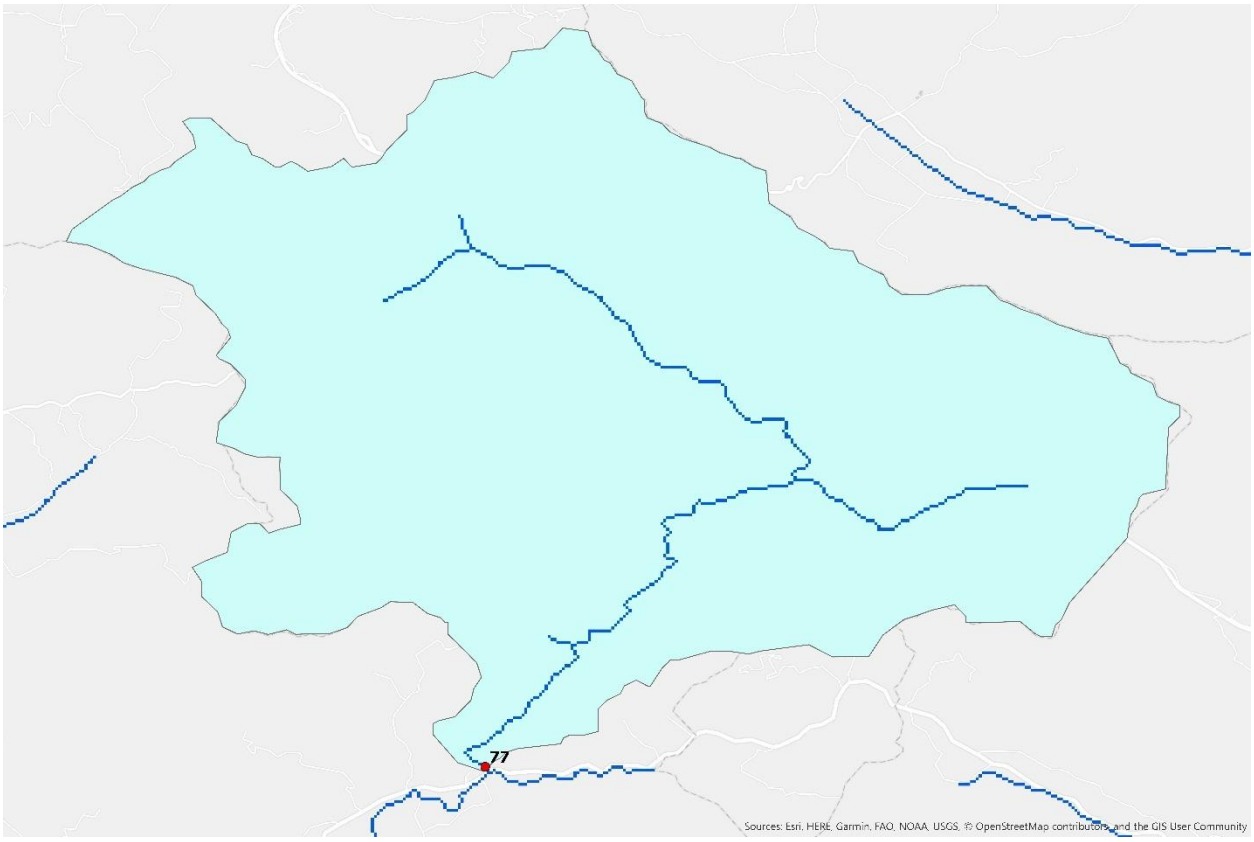
74 Gohyaku River Kamisekishita Bridge Motomiya City



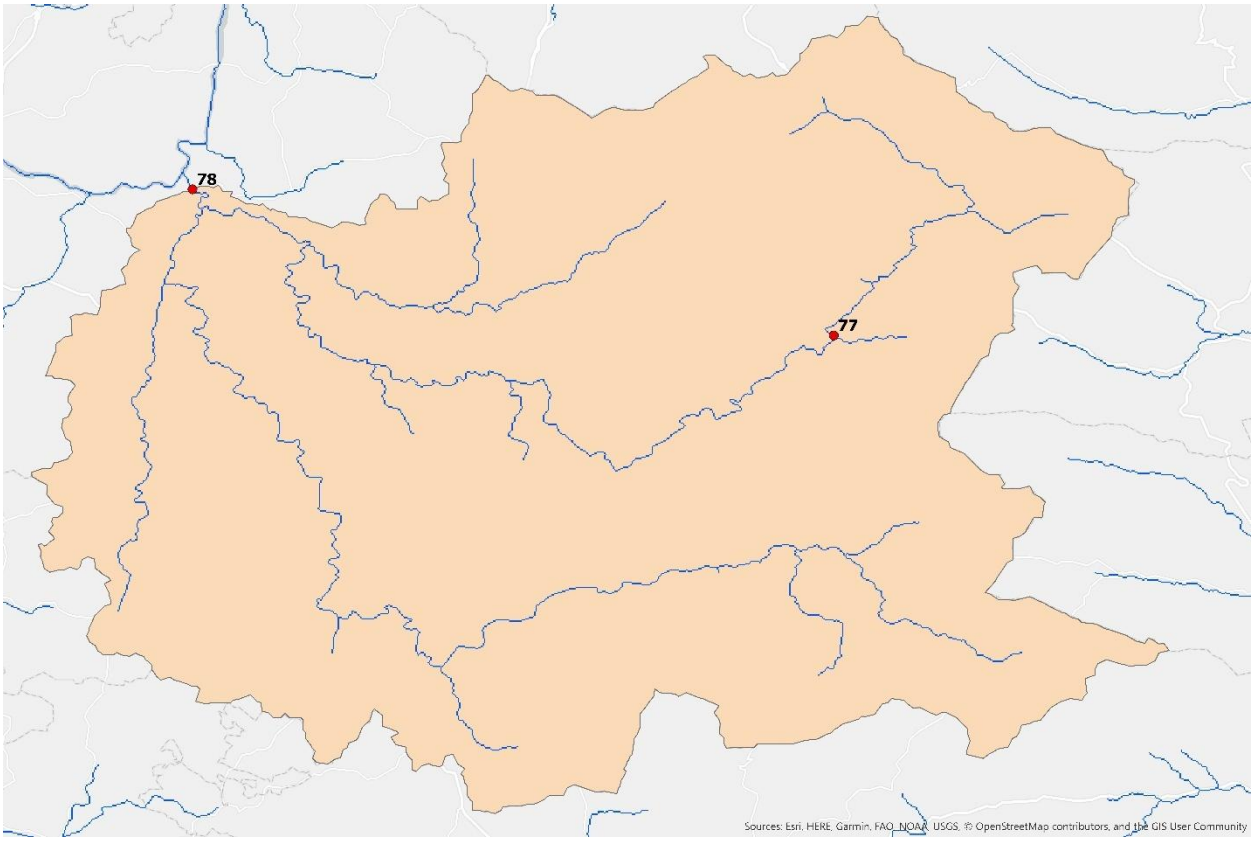
75 Gohyaku River Before the confluence with Abukuma River Motomiya City



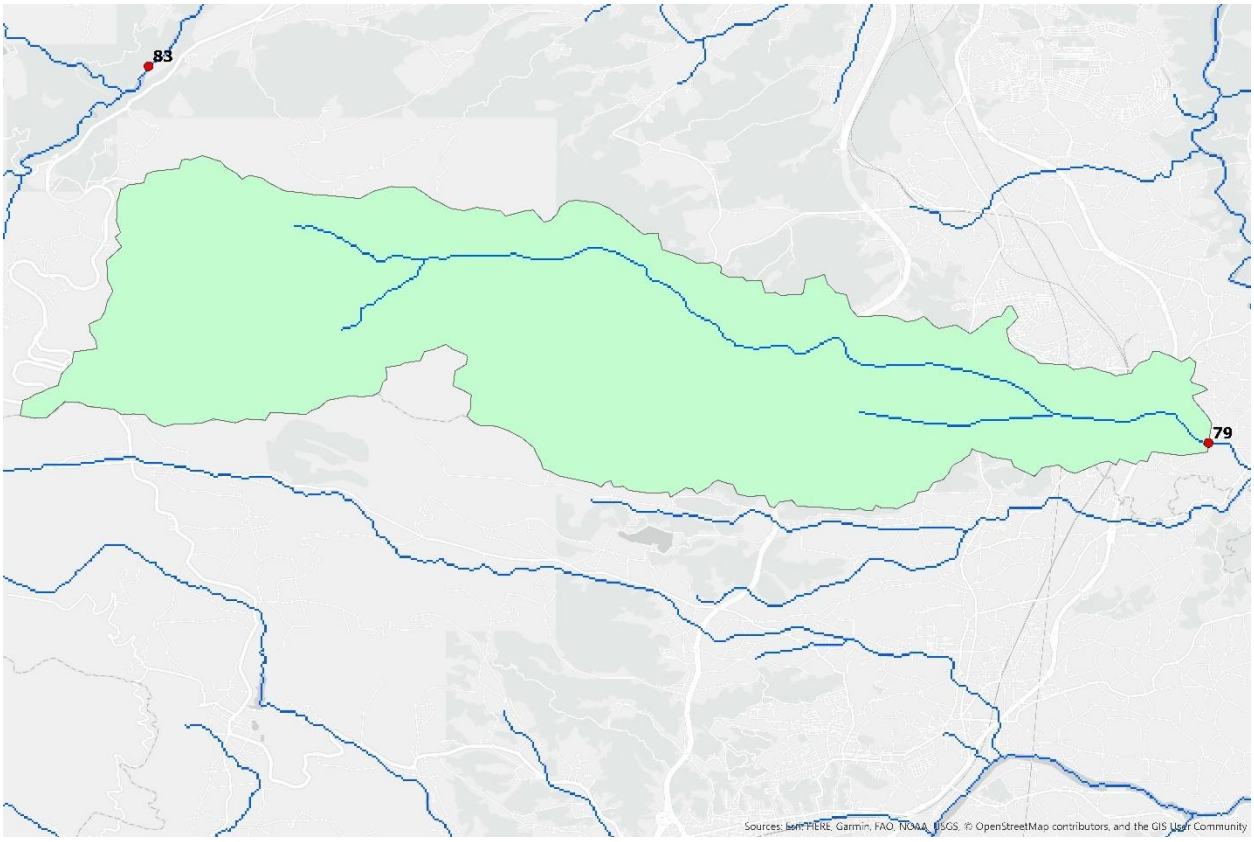
76 Abukuma River Takada Bridge Nihonmatsu City



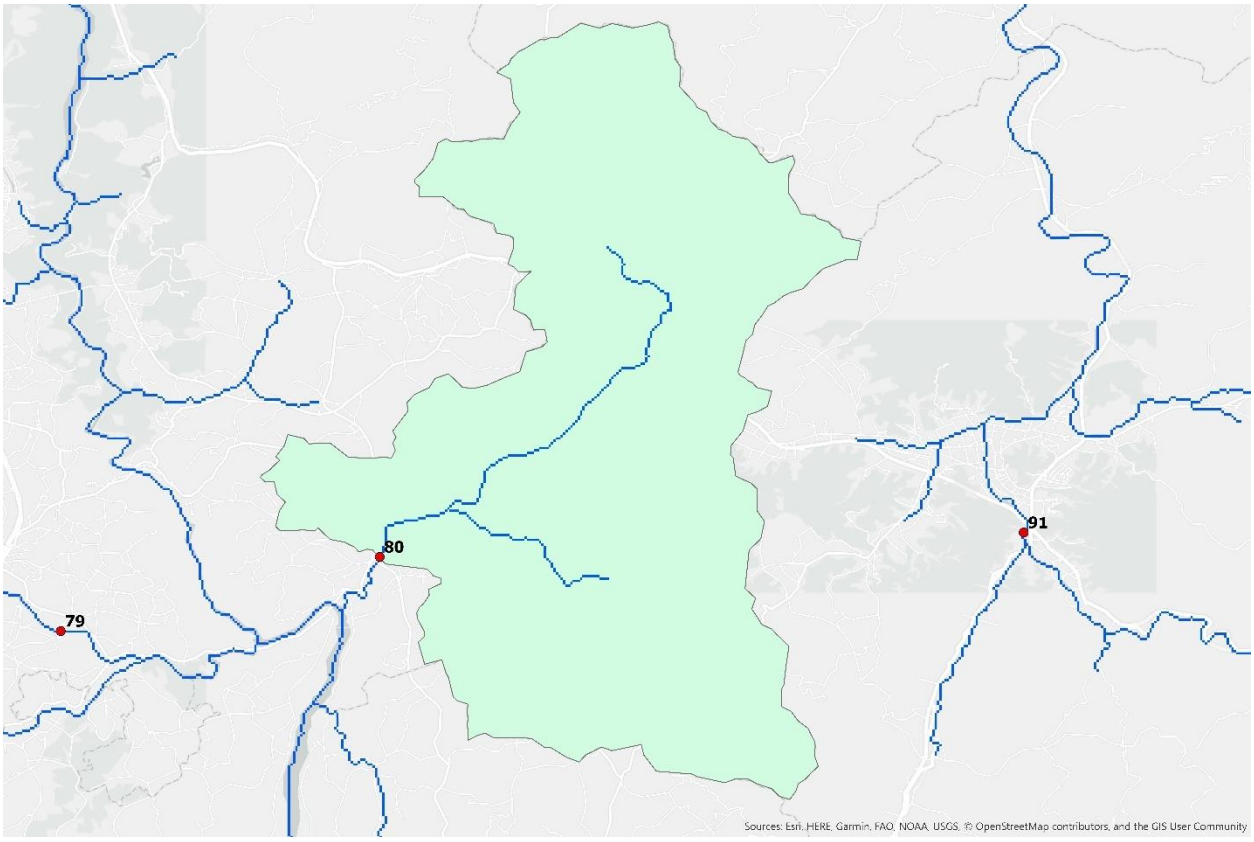
77 Kuchibuto River Kuchibutogawa Bridge Nihonmatsu City



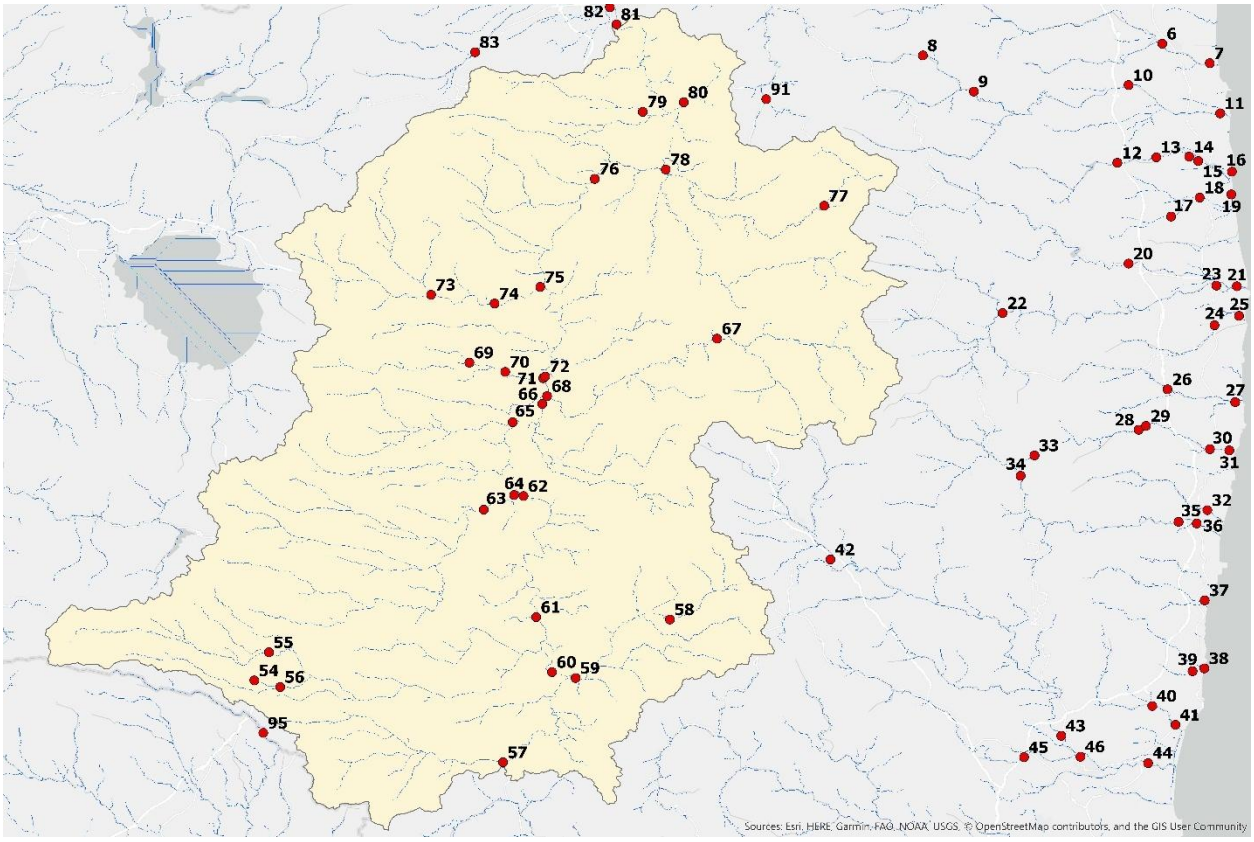
78 Utsushi RiverOsegawa Bridge Nihonmatsu City



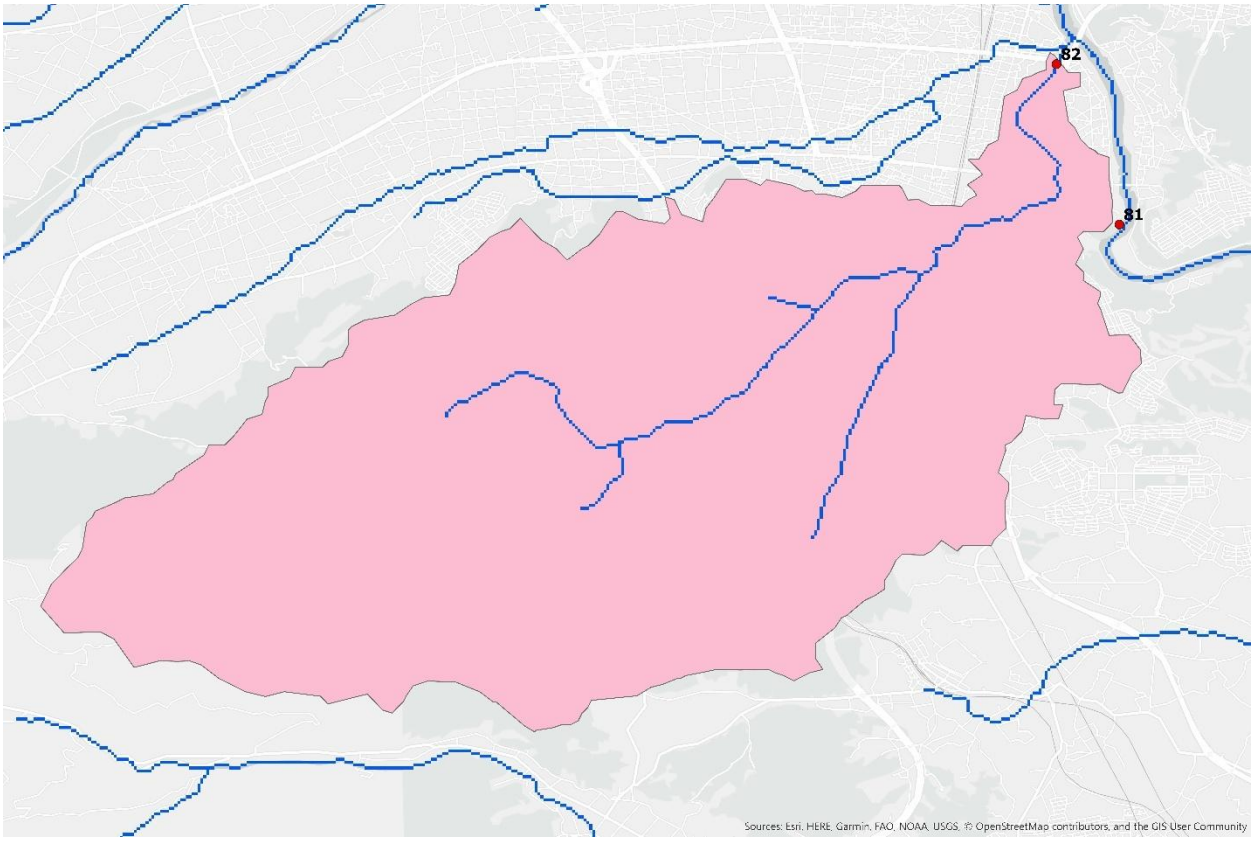
79 Mizuhara River Getouchi Bridge Fukushima City



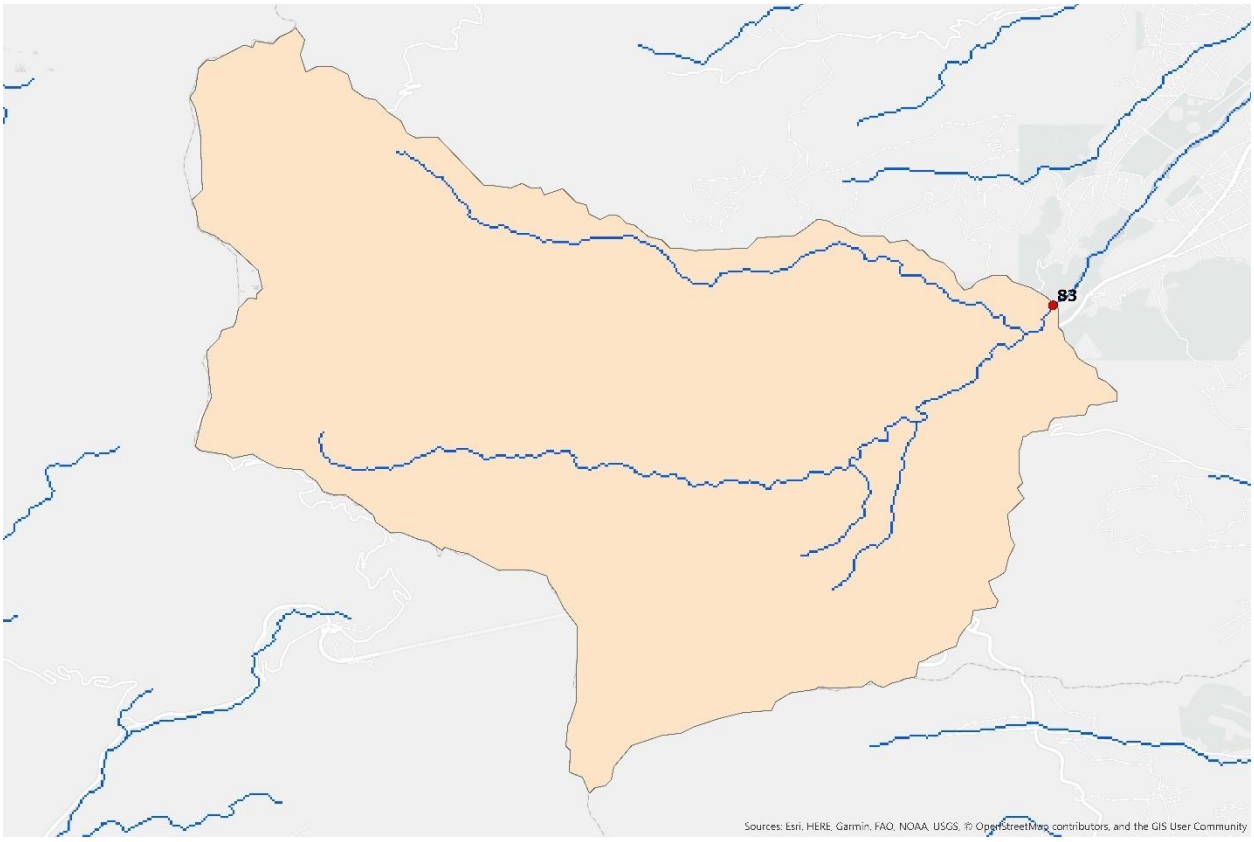
80 Megami River Tsurumaki Bridge Fukushima City



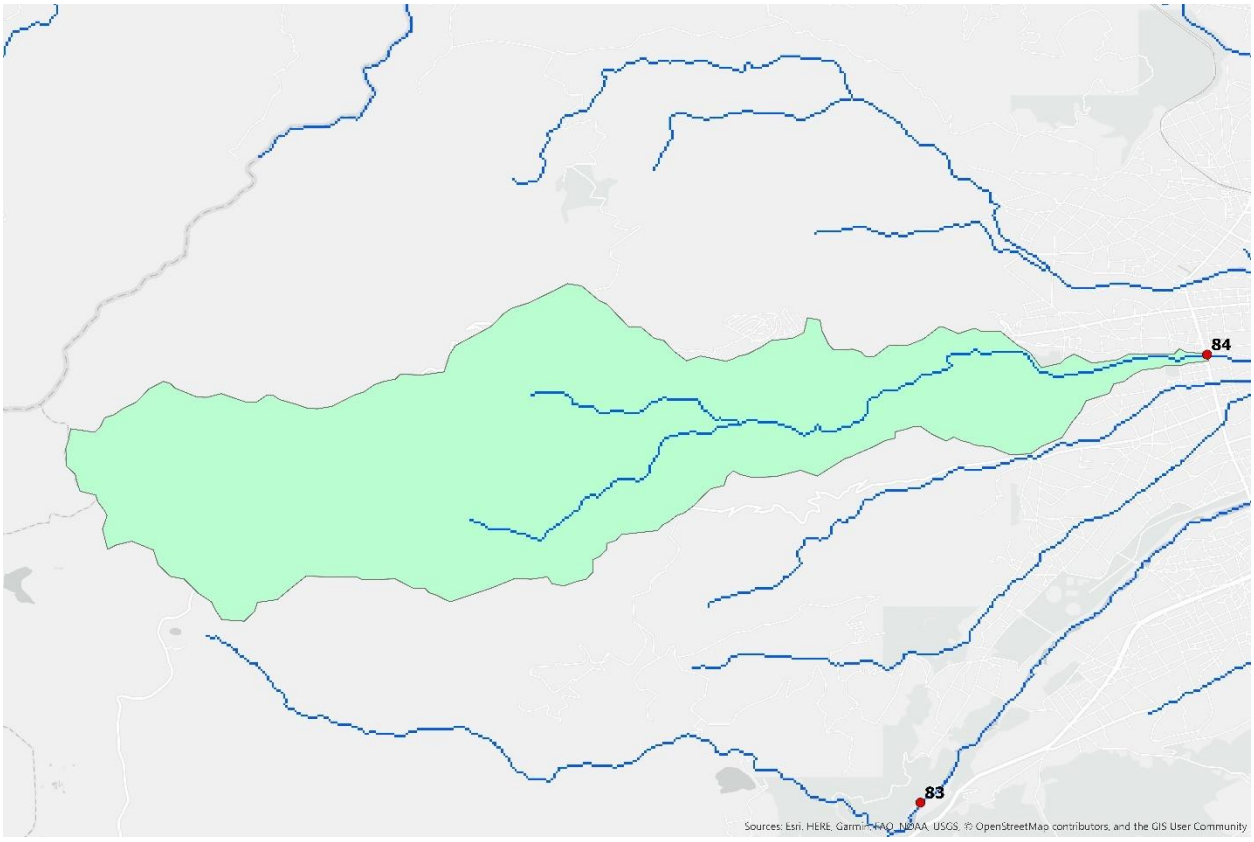
81 Abukuma River Horai Bridge Fukushima City



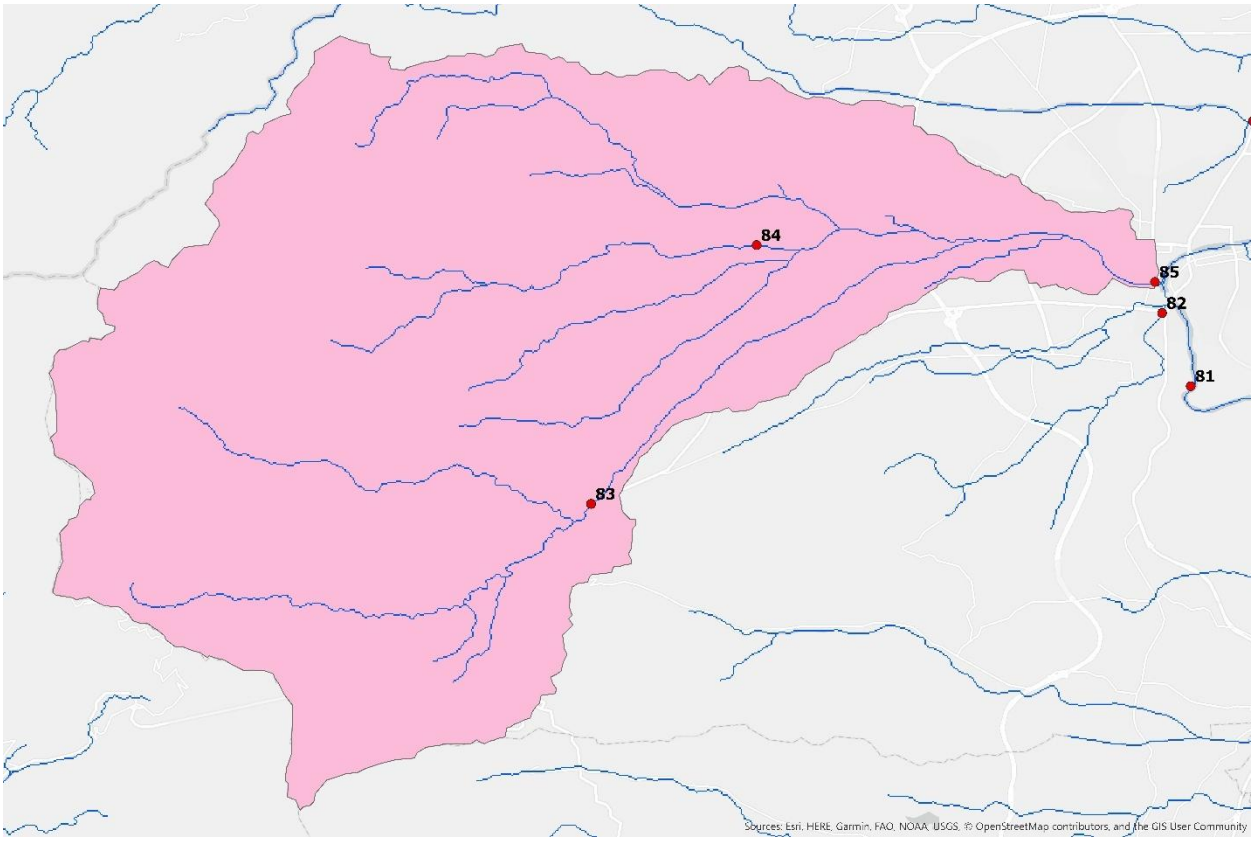
82 Nigori River Before the confluence with Omori River Fukushima City



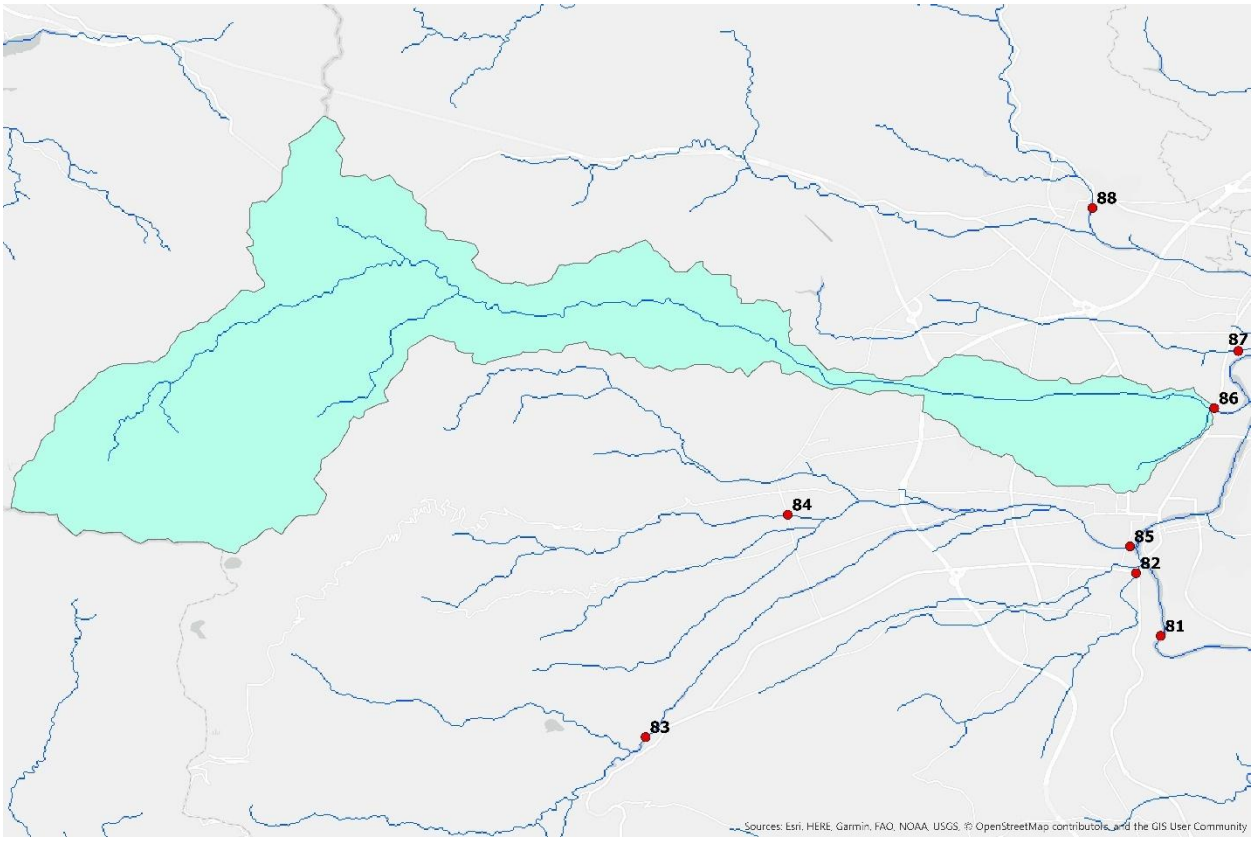
83 Arakawa River Hinokura Bridge Fukushima City



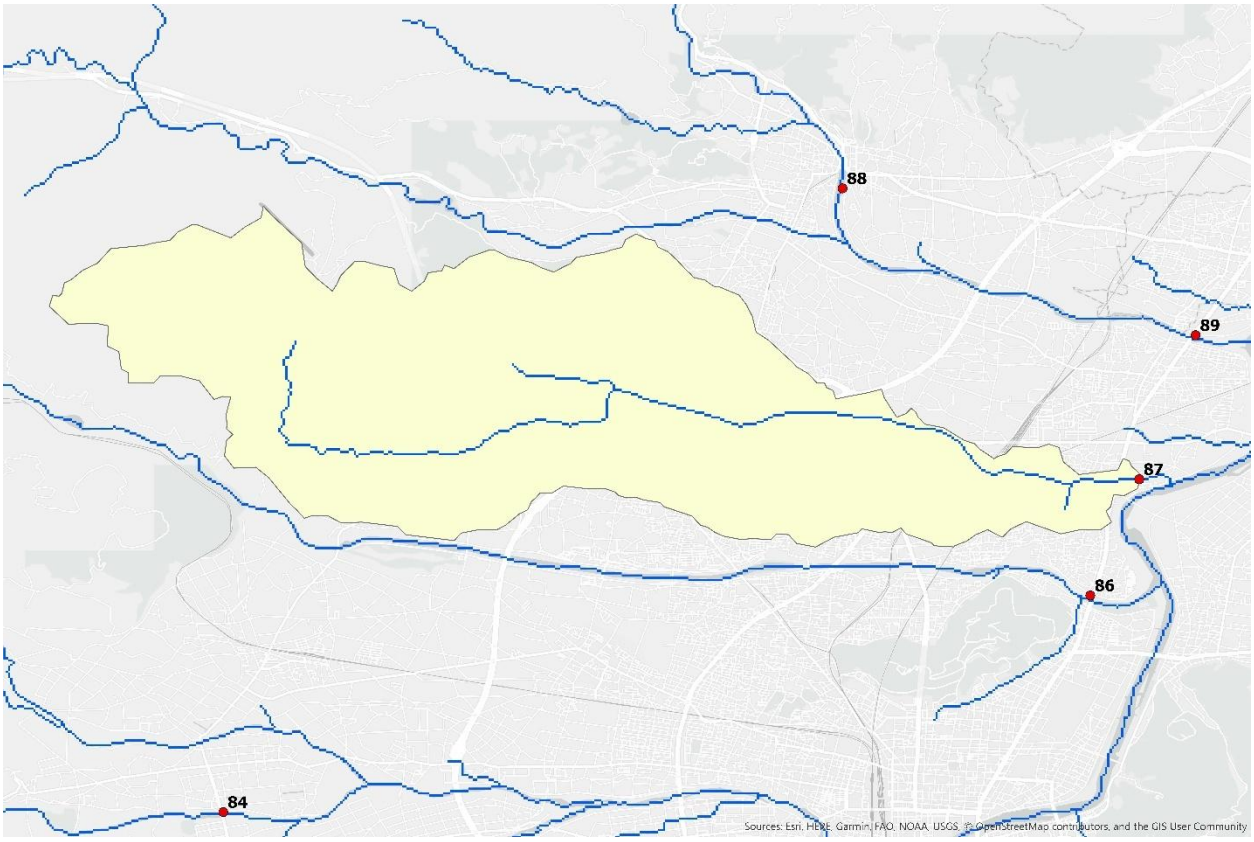
84 Sukawa River Sukawa Bridge Fukushima City



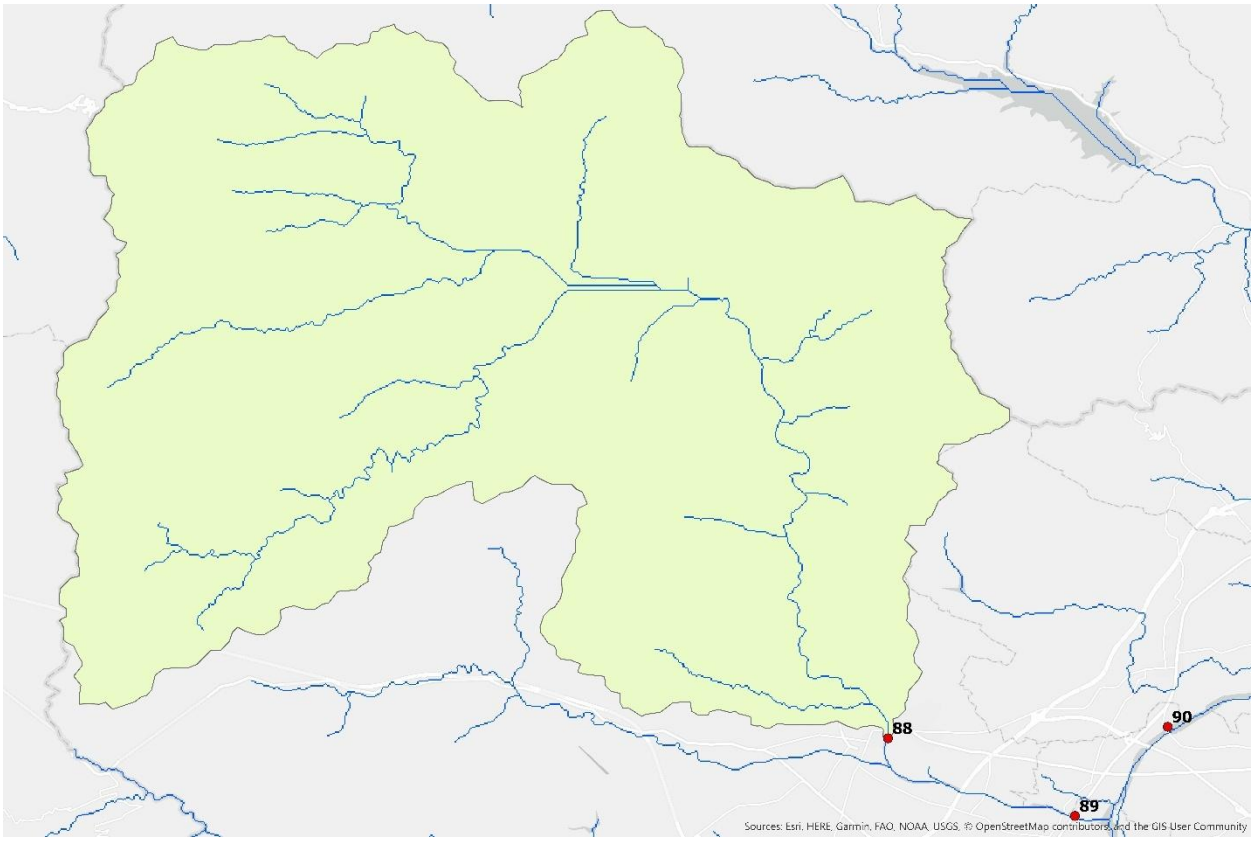
85 Arakawa River Before the confluence with Abukuma River Fukushima City



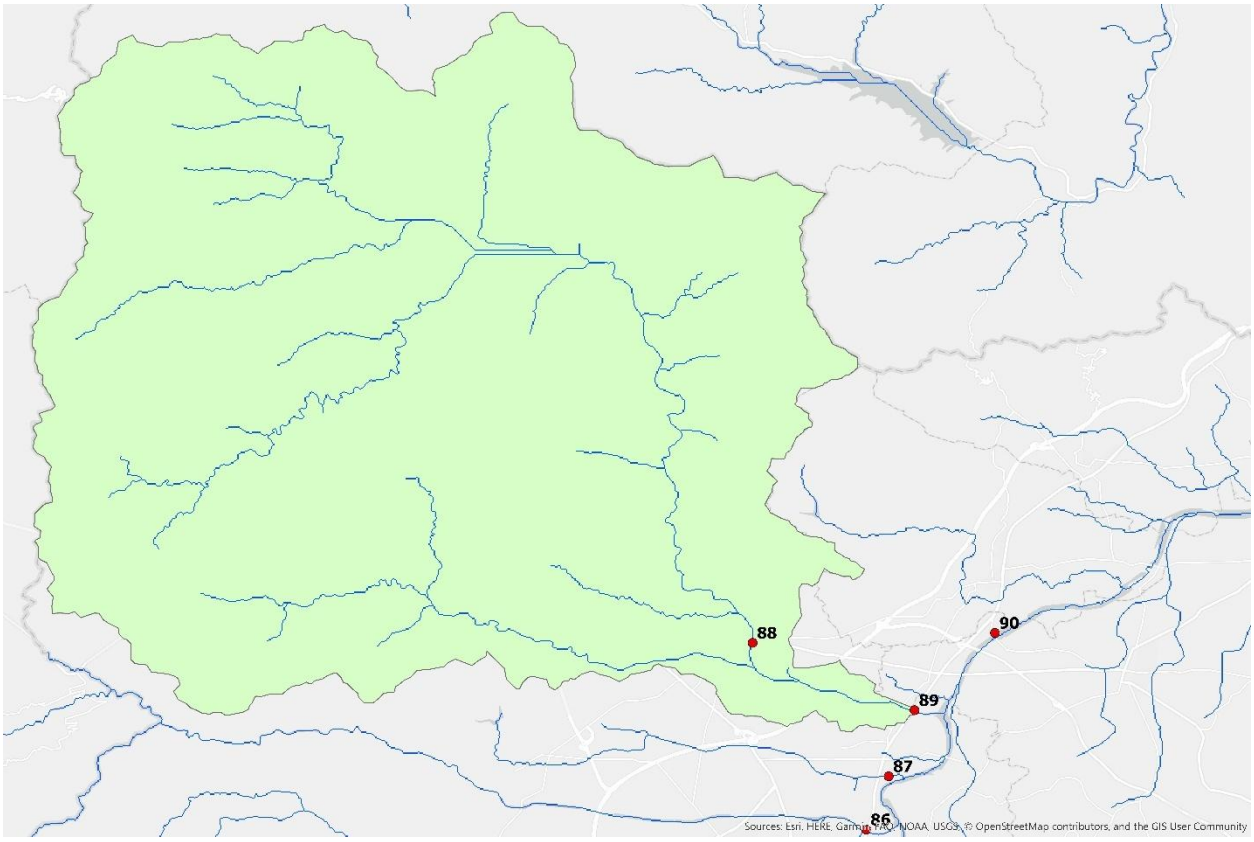
86 Matsukawa River Before the confluence with Abukuma River Fukushima City



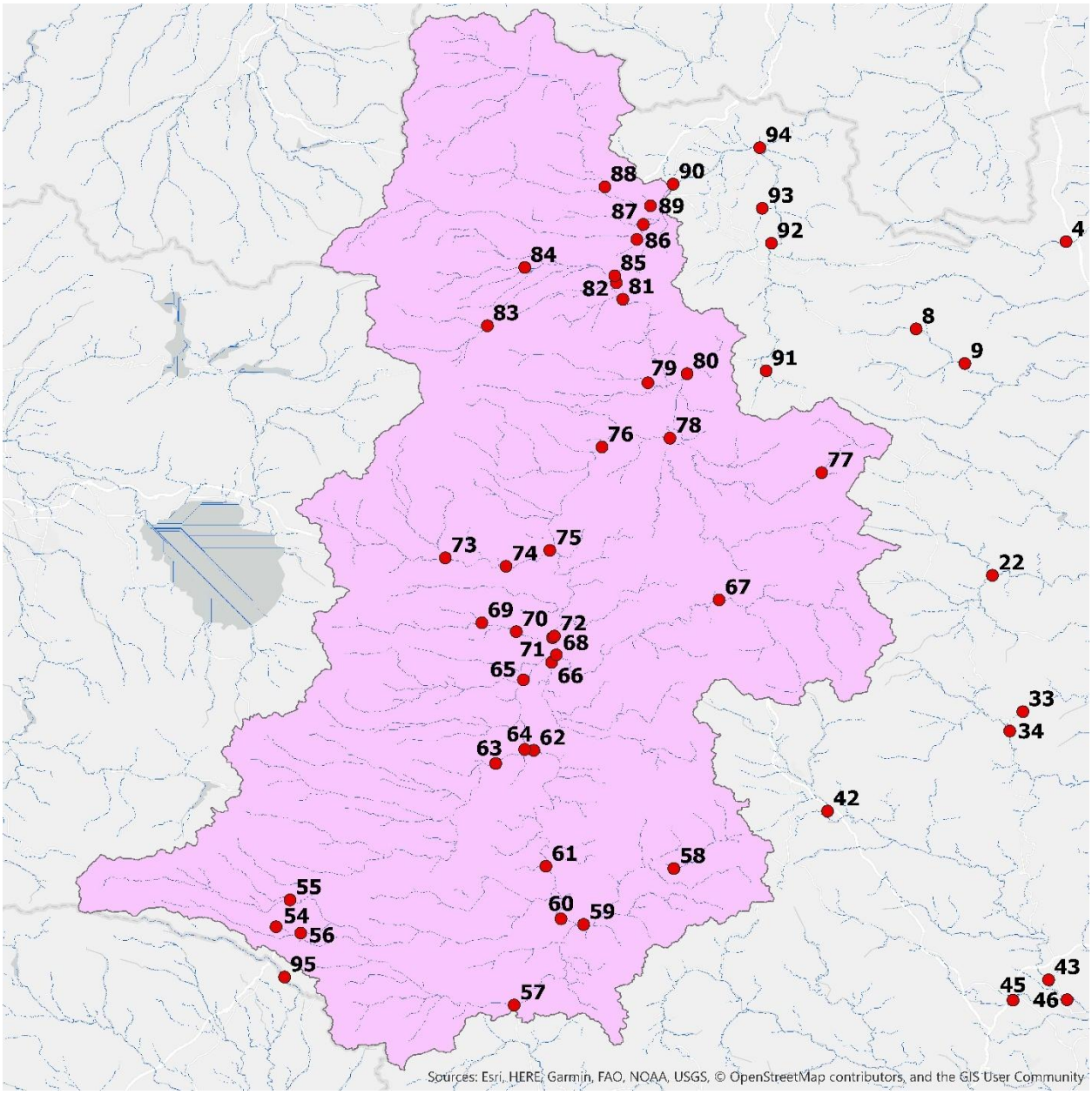
87 Hattanda River Hattanda Bridge Fukushima City



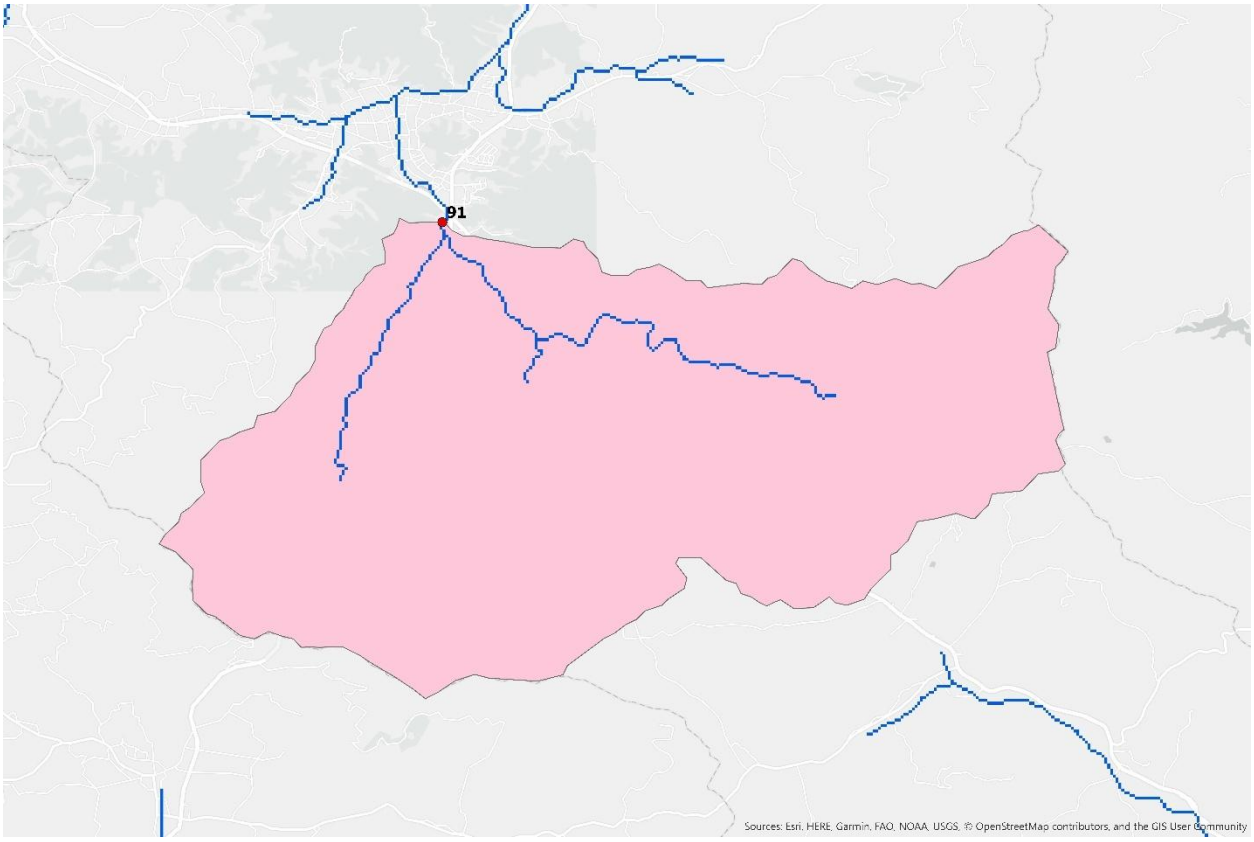
88 Surikami River Totsuna Bridge Fukushima City



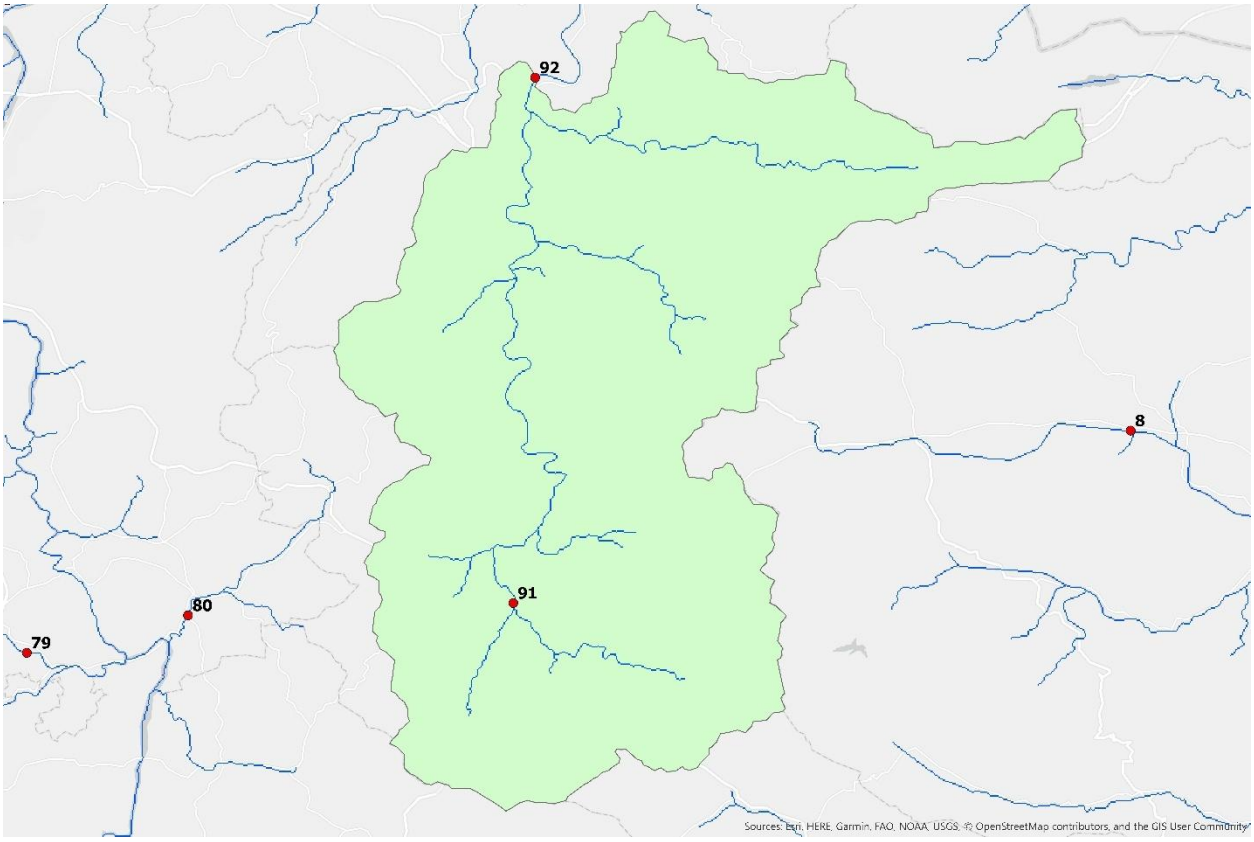
89 Surikami River Before the confluence with Abukuma River Fukushima City



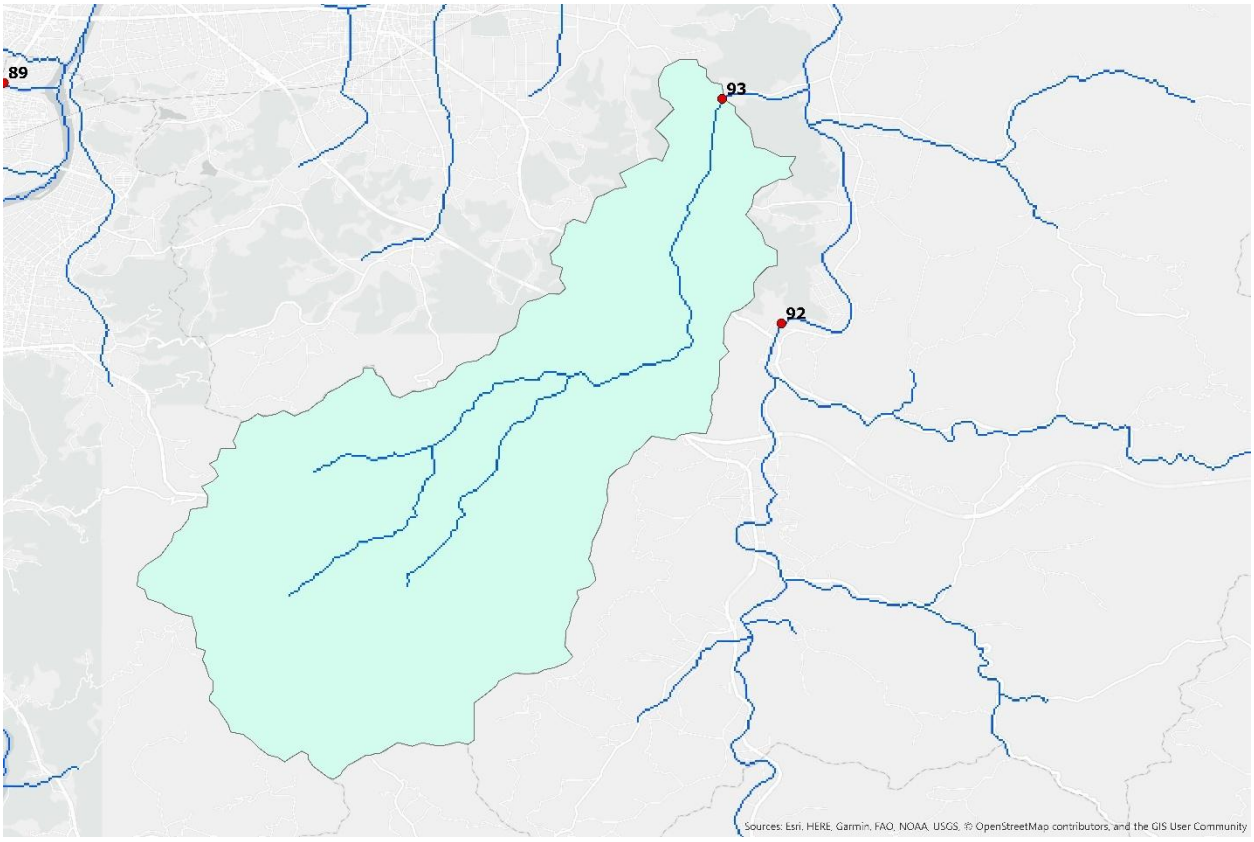
90 Abukuma River Taisho Bridge Date City



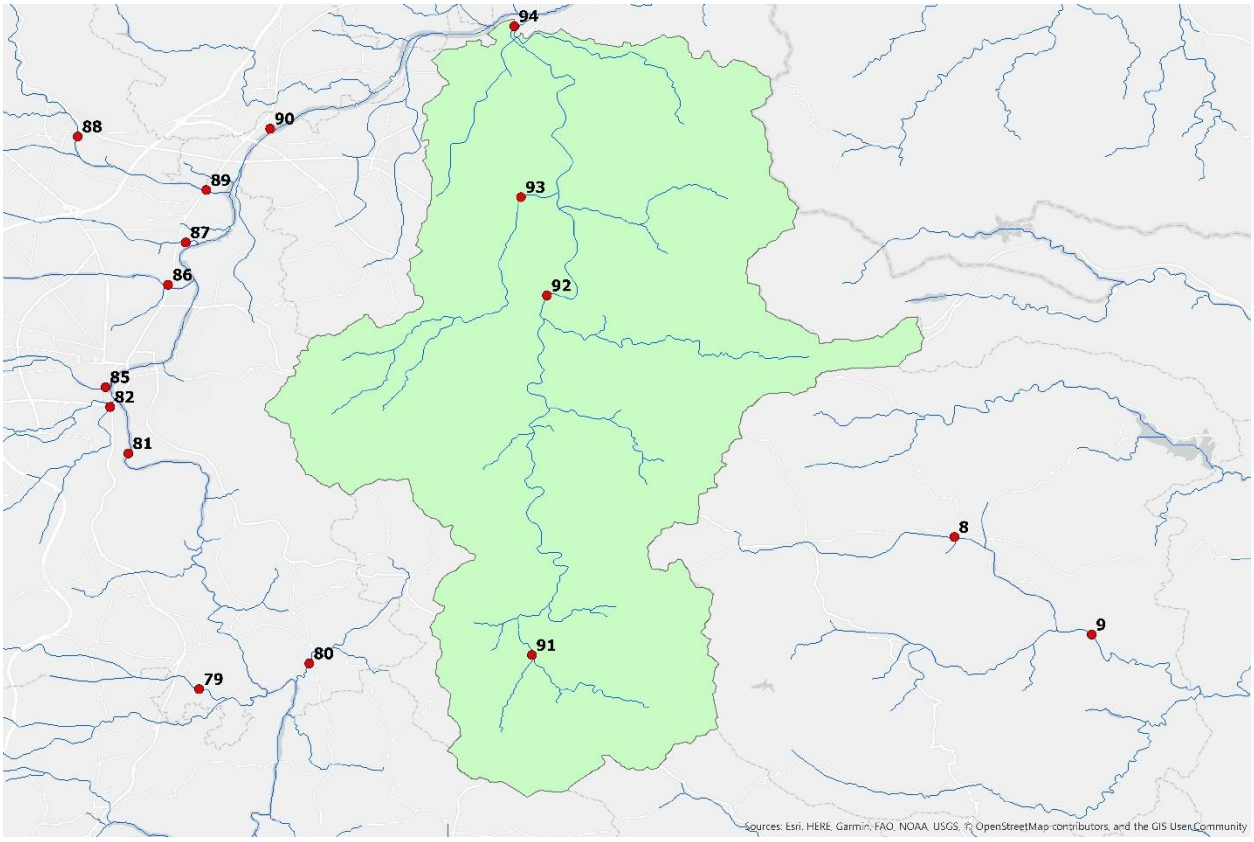
91 Hirose River Tatenokoshi Bridge Kawamata Town



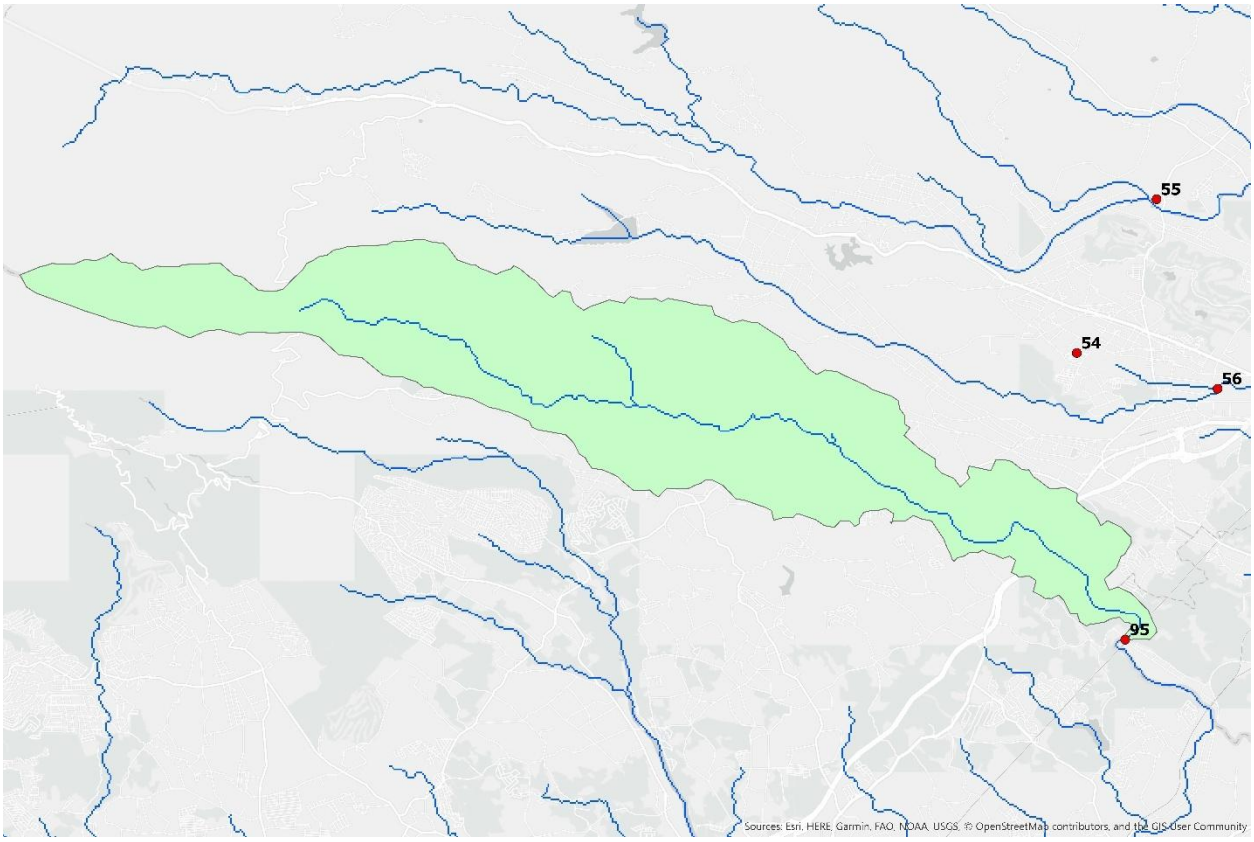
92 Hirose River Jizogawara Bridge Date City



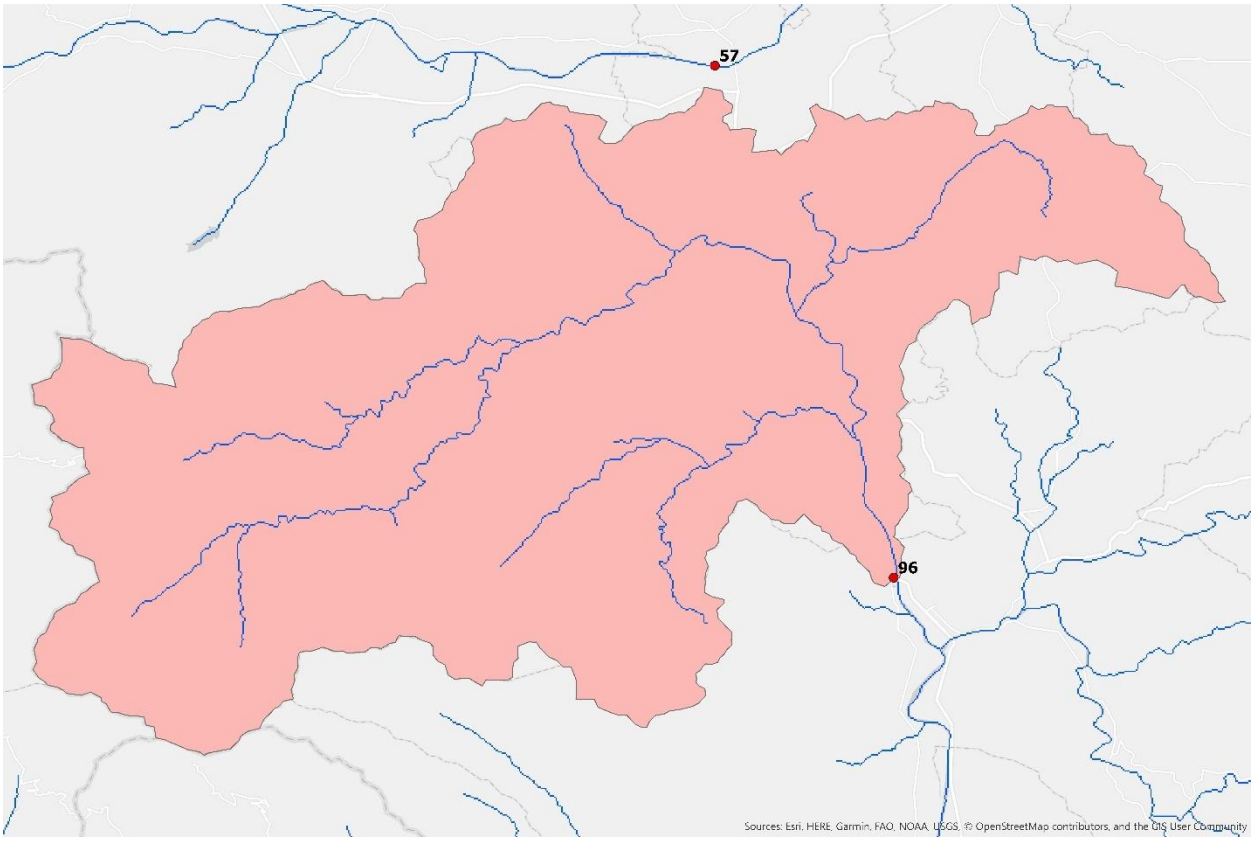
93 Oguni River Before the confluence with Hirose River Date City



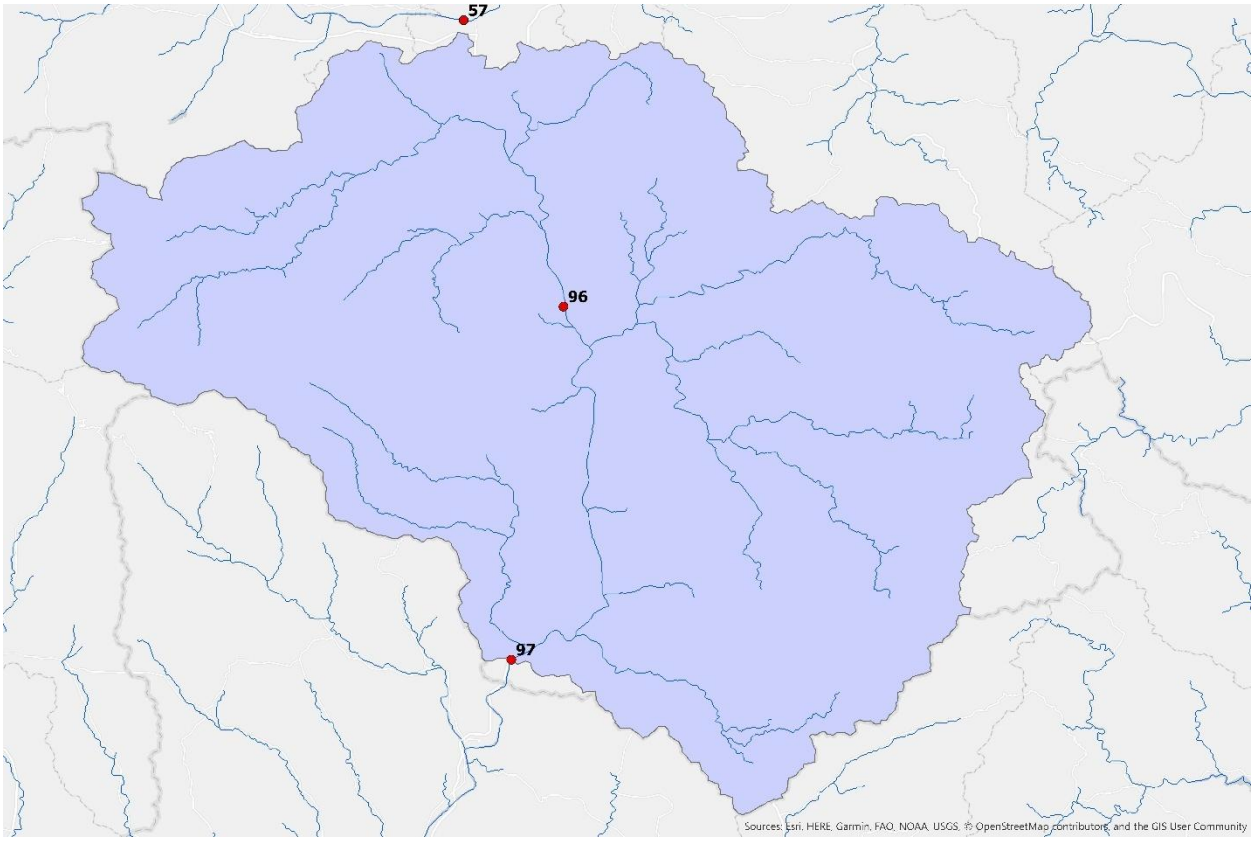
94	Hirose River	Before the confluence with	Abukuma River	Date City



95 Kurokawa River Prefectural border with Tochigi Shirakawa City



96 Kujigawa River Matsuoka Bridge Tanagura Town



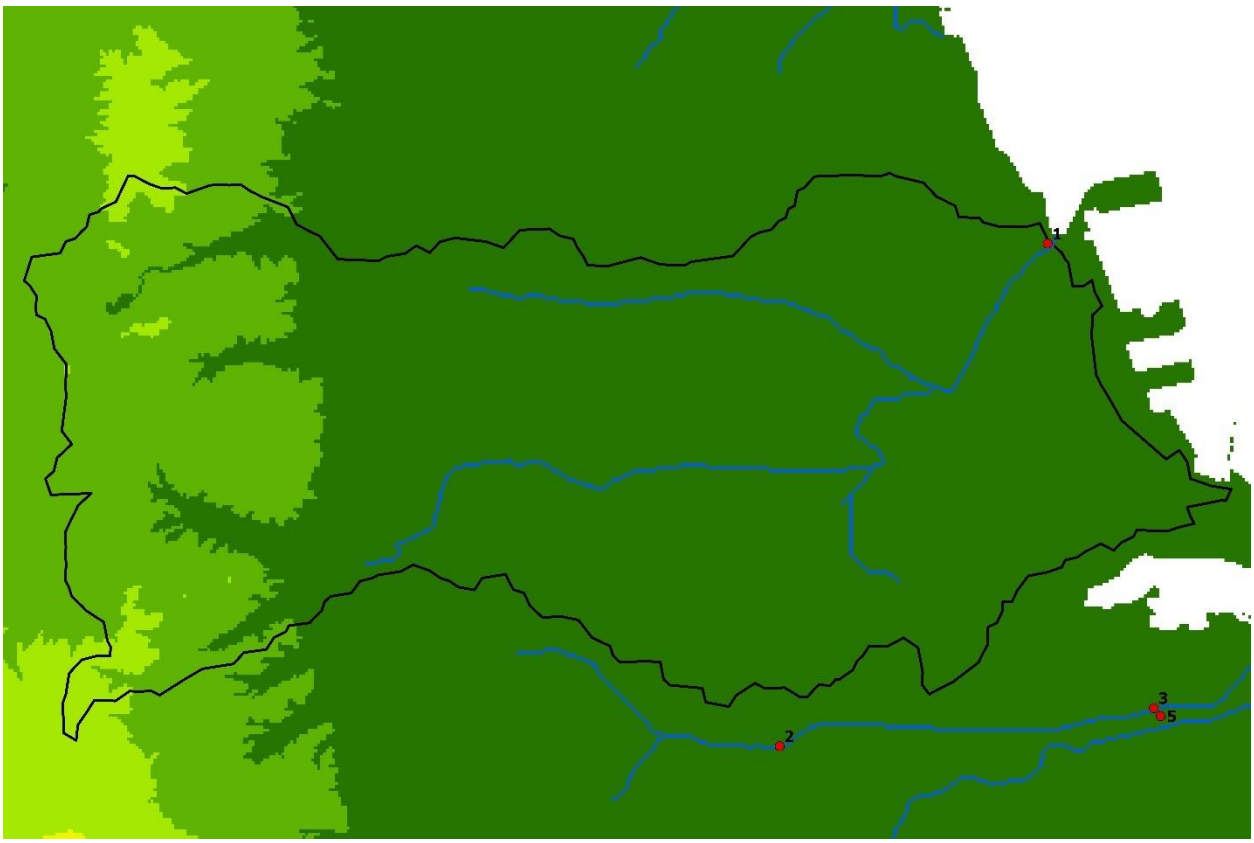
97 Kujigawa River Takachihara Bridge Yamatsuri Town

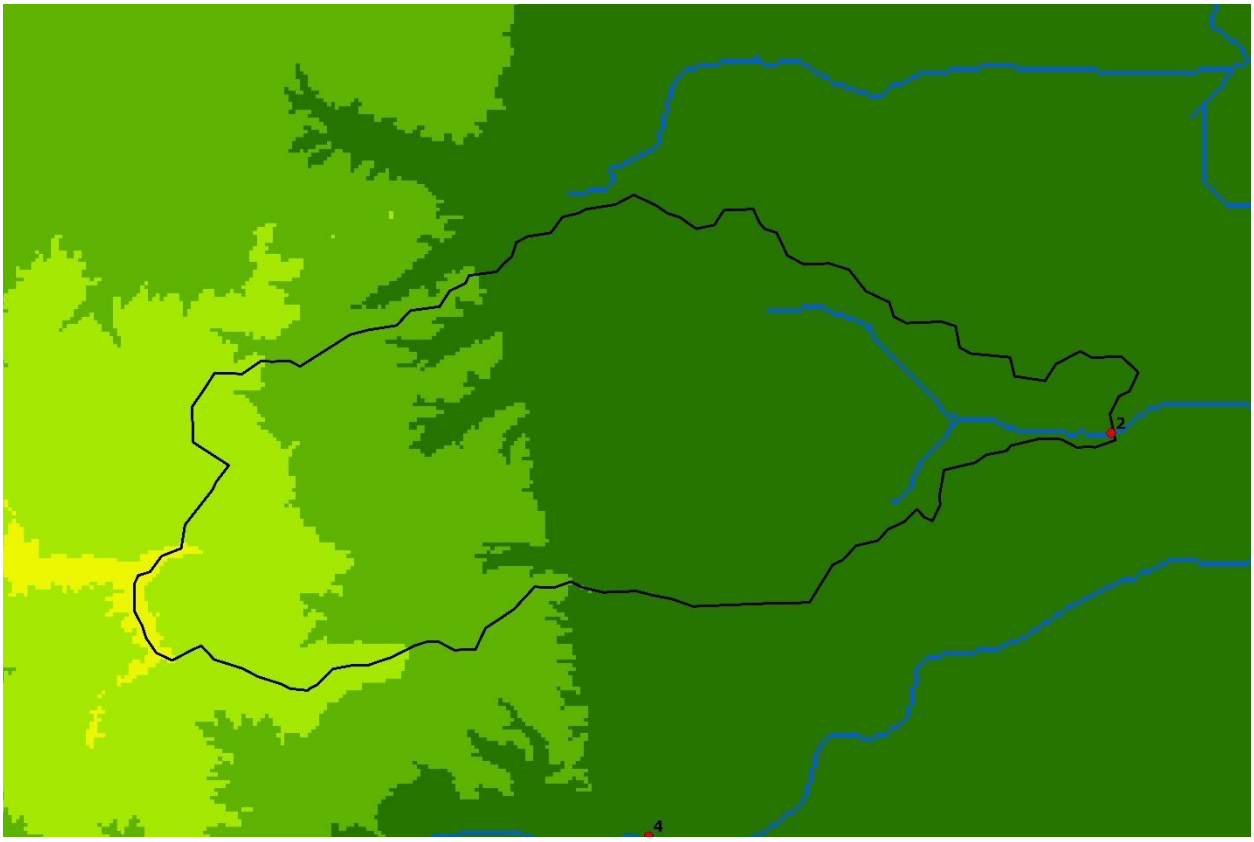
F: Geography of each Site's Watershed (1-97 in Order):

Key (In Meters Above Sea Level):

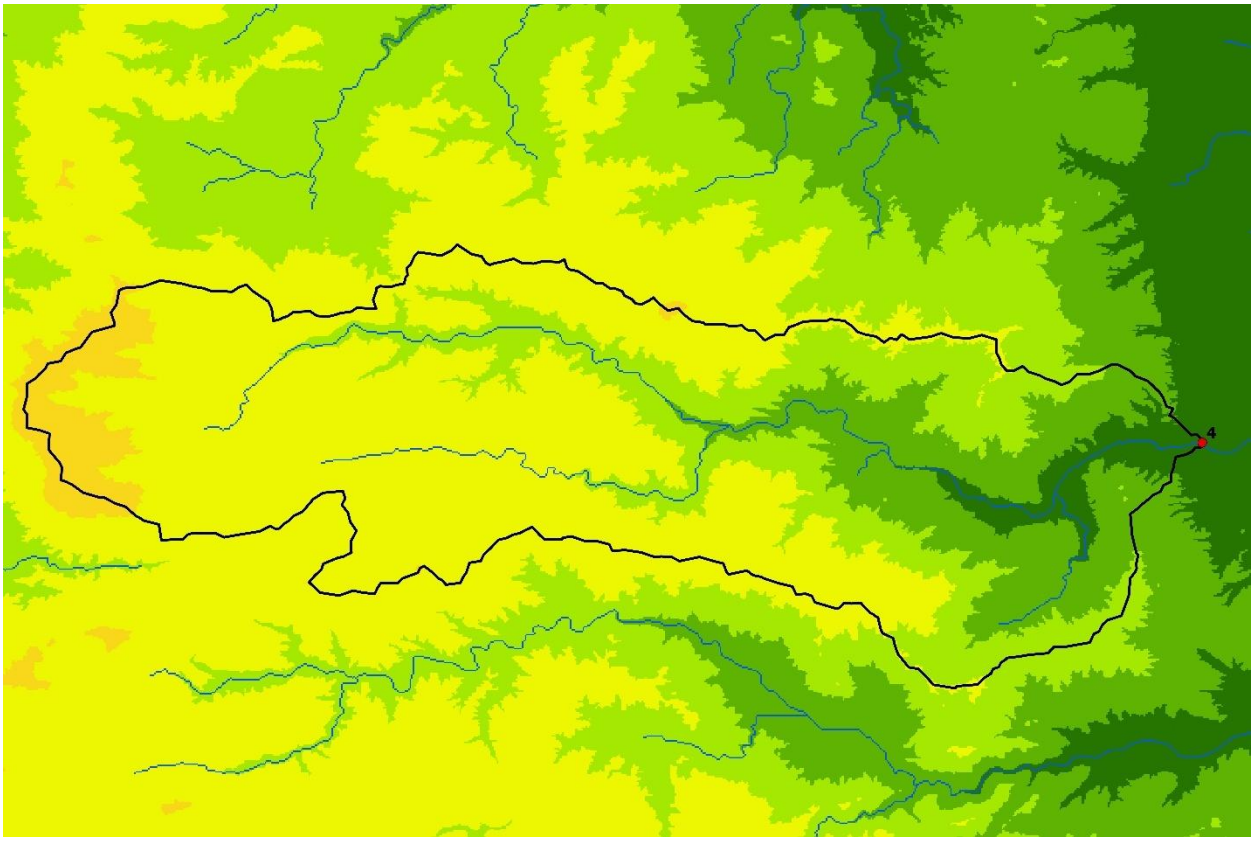
Color	Upper value	Label
	≤ 103.4707	0.001 - 103.471
	≤ 266.067515	103.472 - 266.068
	≤ 443.445858	266.069 - 443.446
	≤ 635.60573	443.447 - 635.606
	≤ 842.547131	635.607 - 842.547
	≤ 1079.051588	842.548 - 1,079.052
	≤ 1359.900632	1,079.053 - 1,359.901
	≤ 1685.094261	1,359.902 - 1,685.094
	≤ 2113.758591	1,685.095 - 2,113.759
	≤ 3769.289795	2,113.76 - 3,769.29

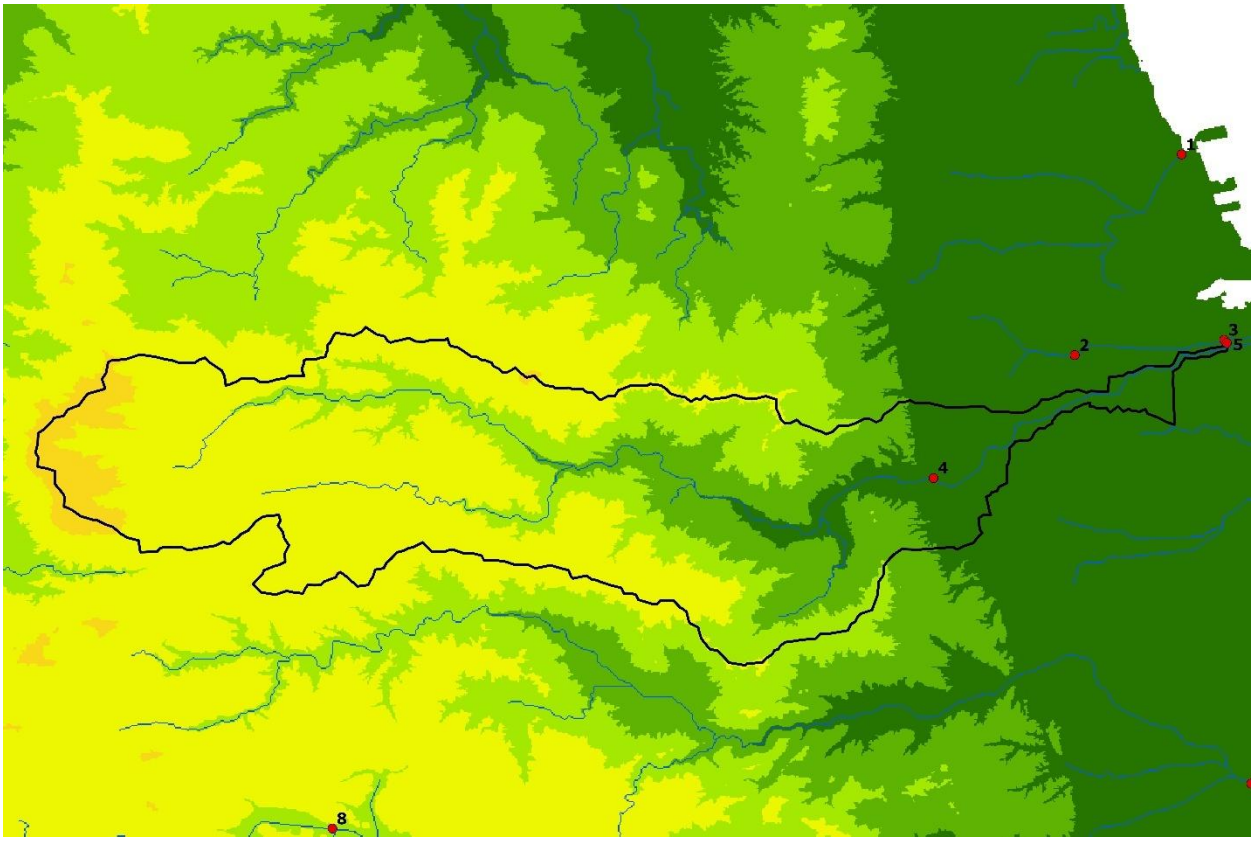
1-97 With Watershed Outlined in Black:

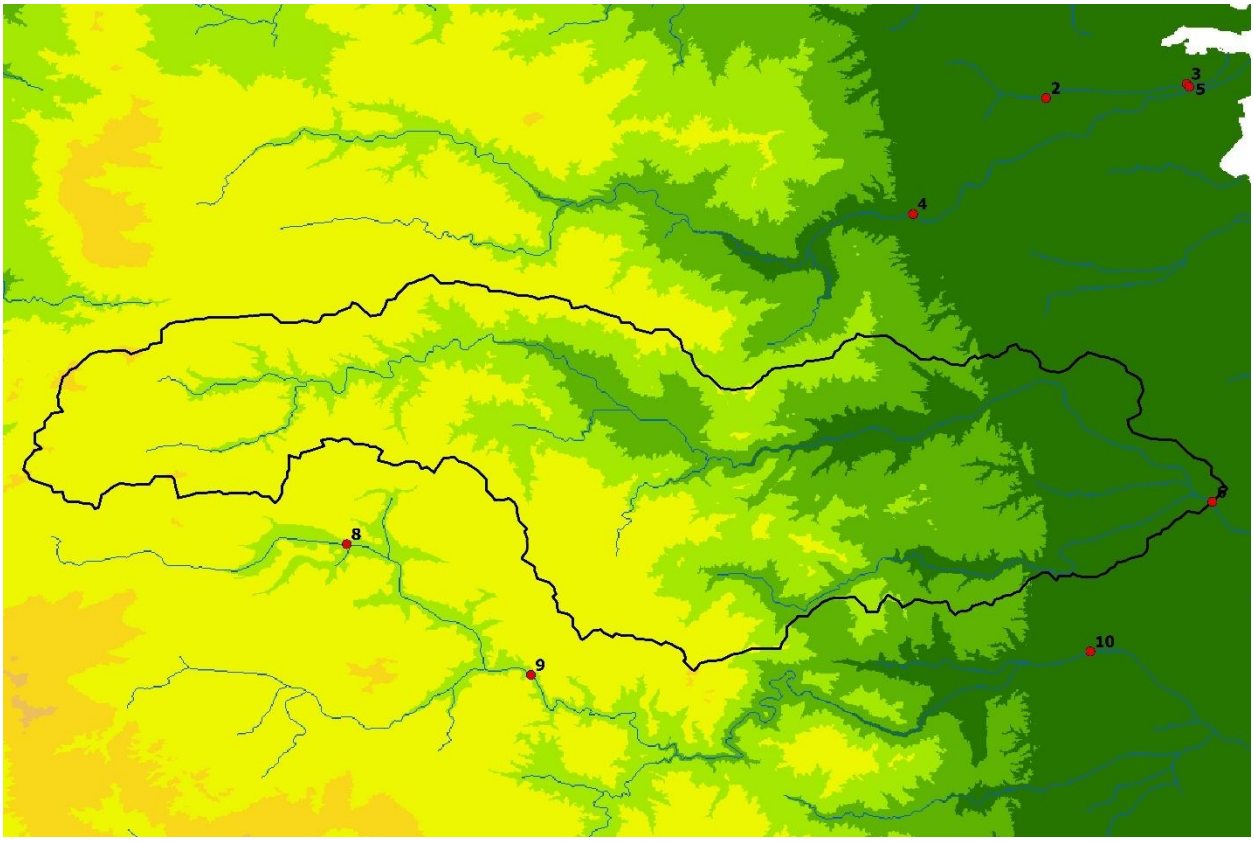


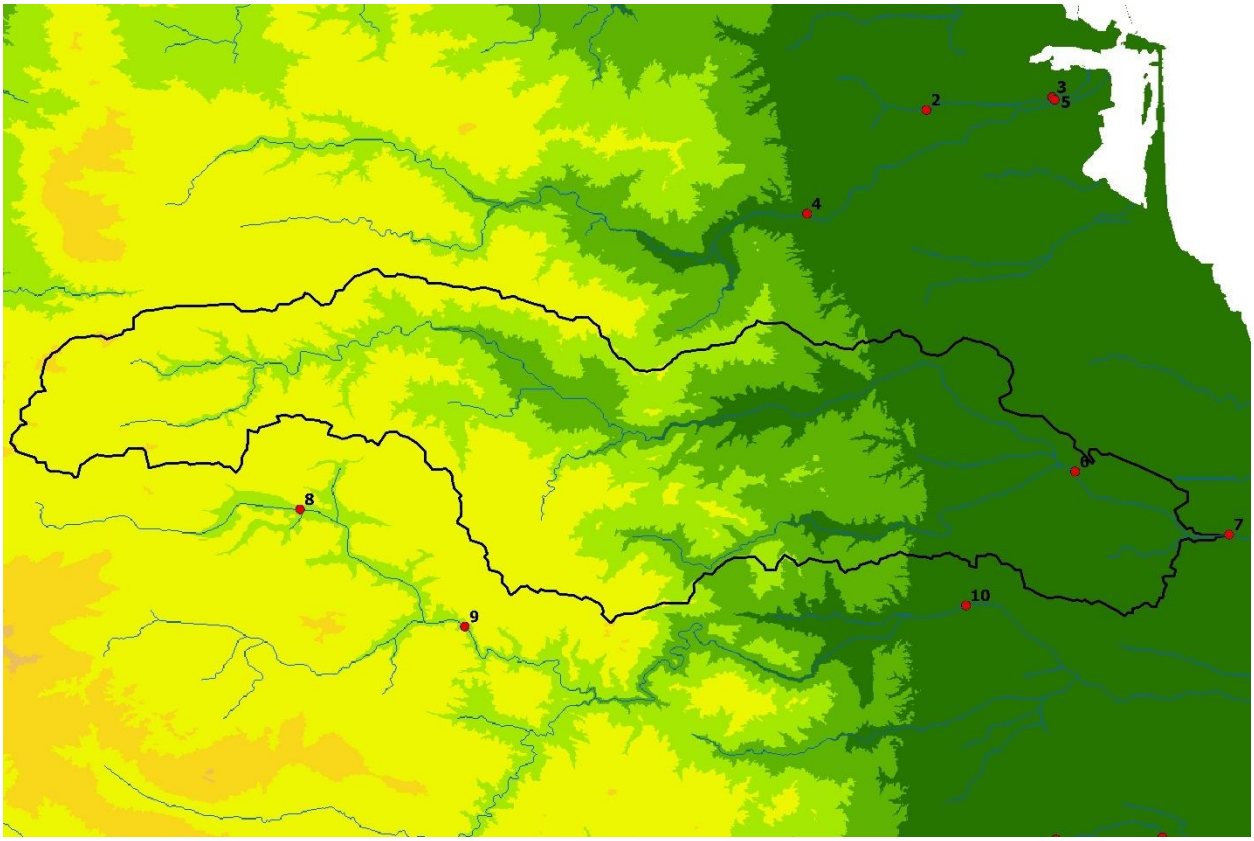

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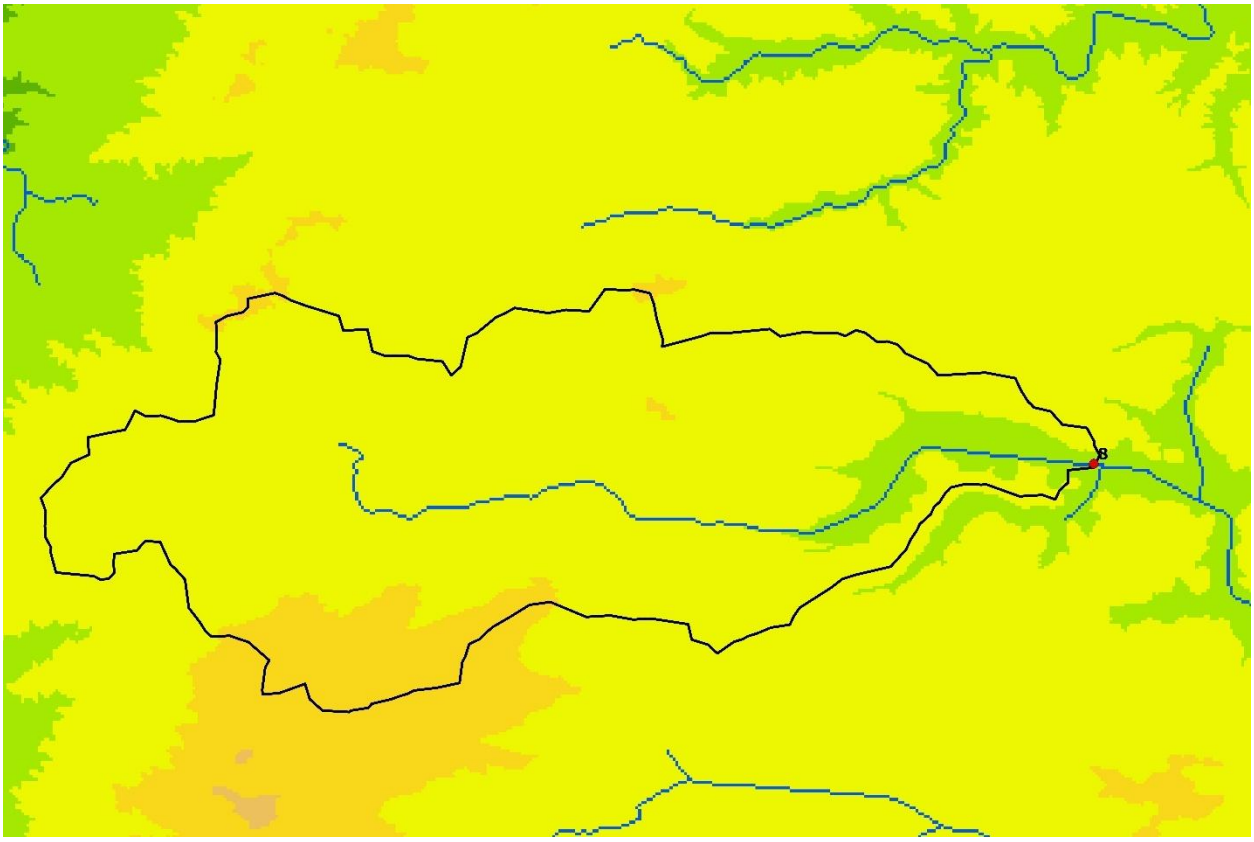

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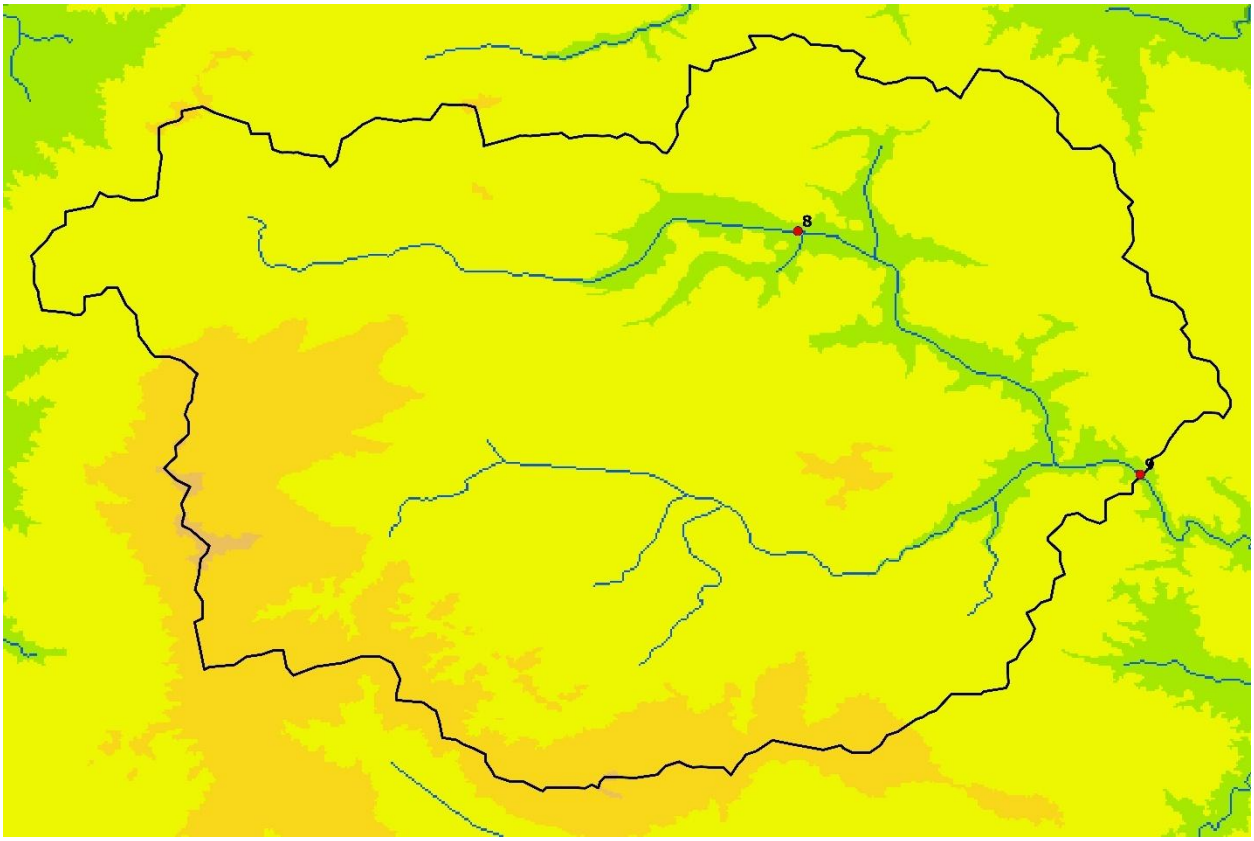

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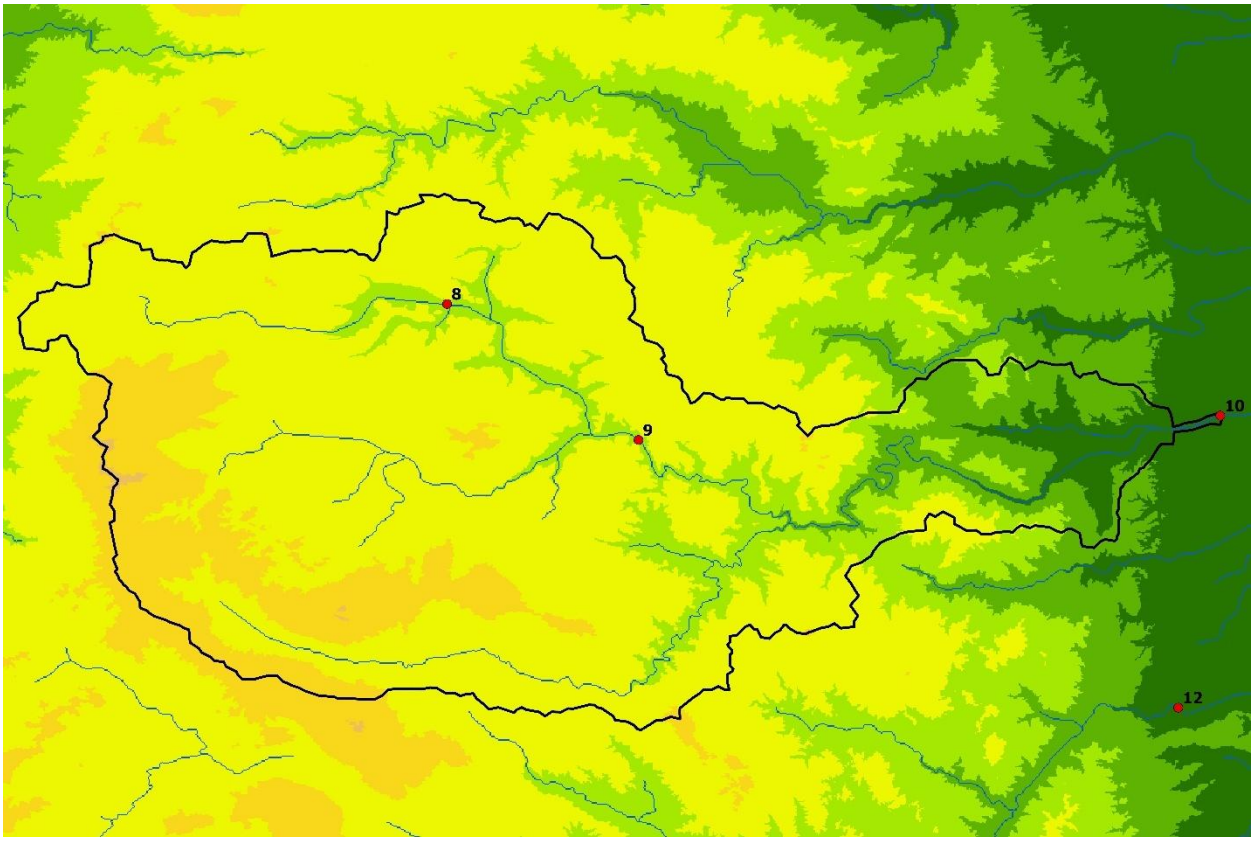

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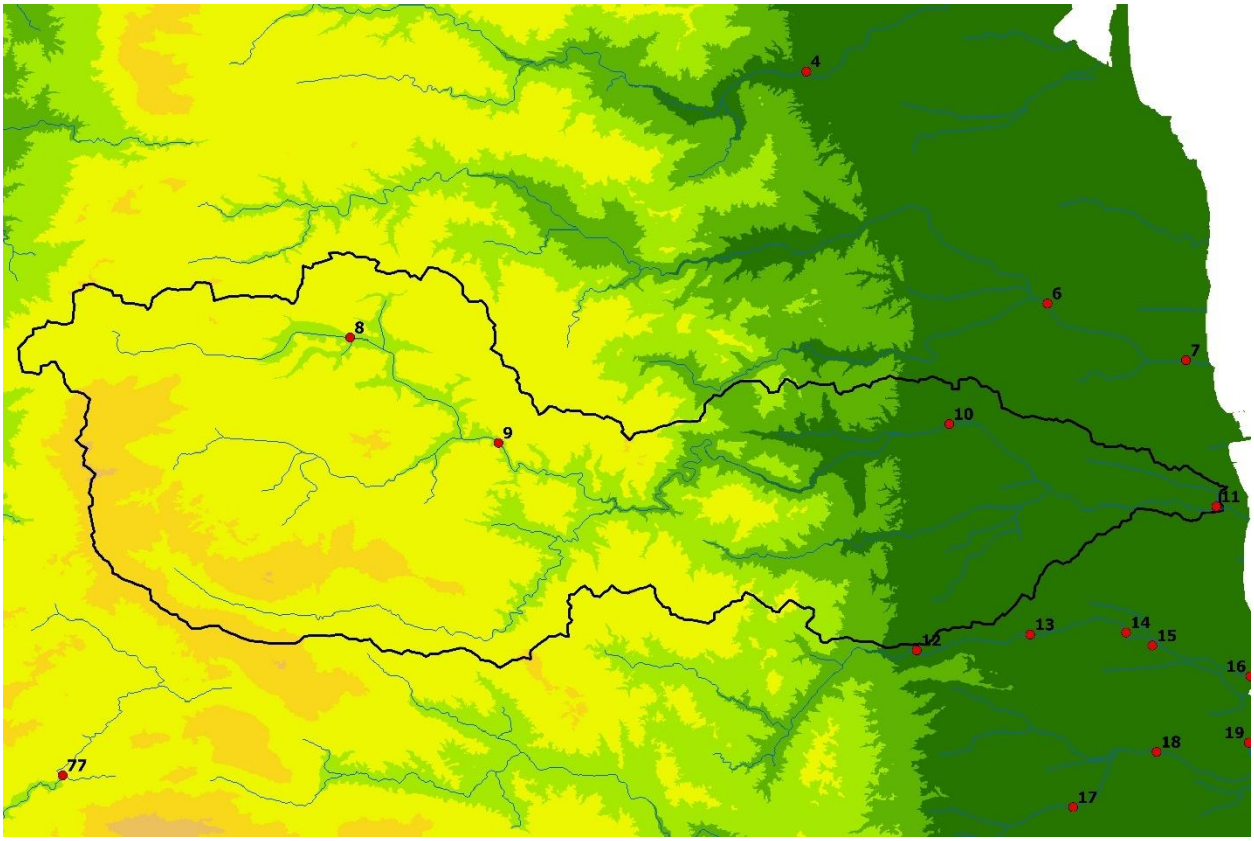

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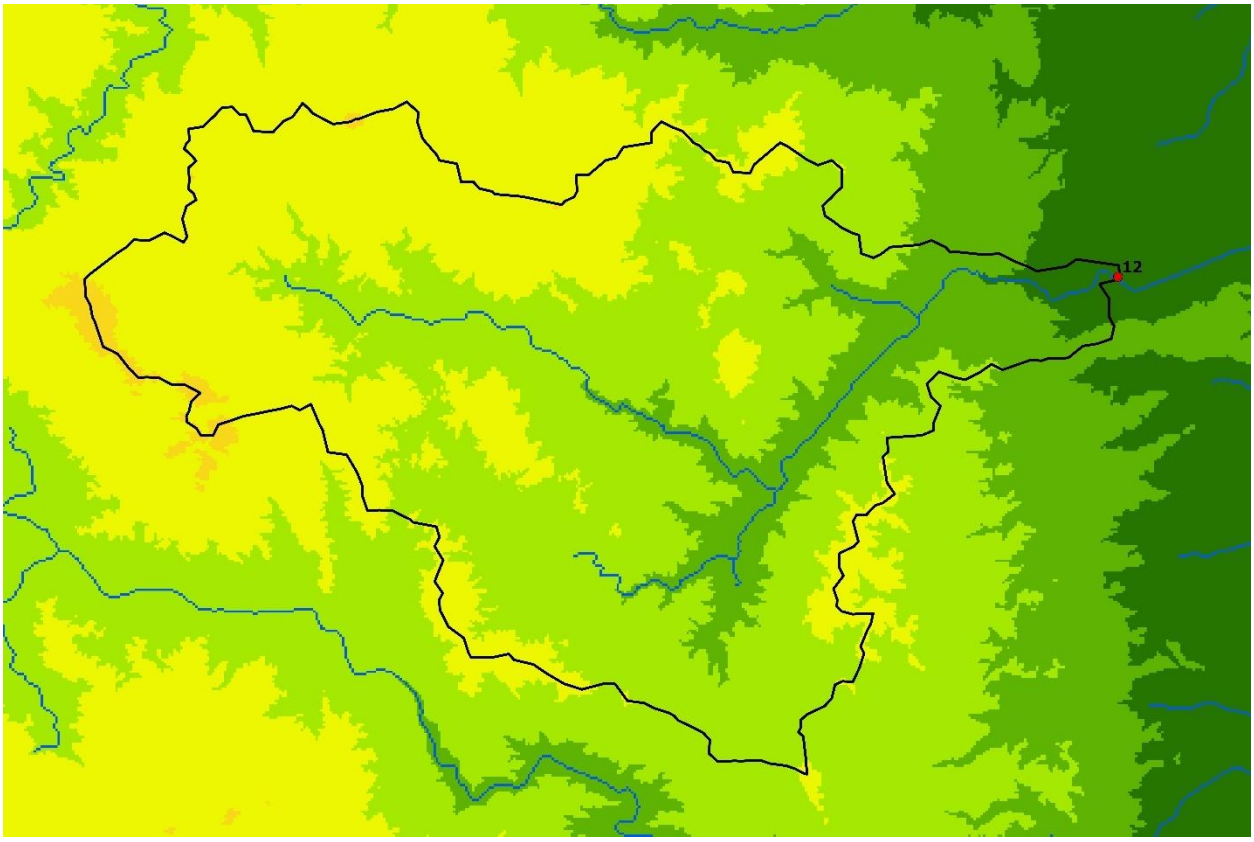

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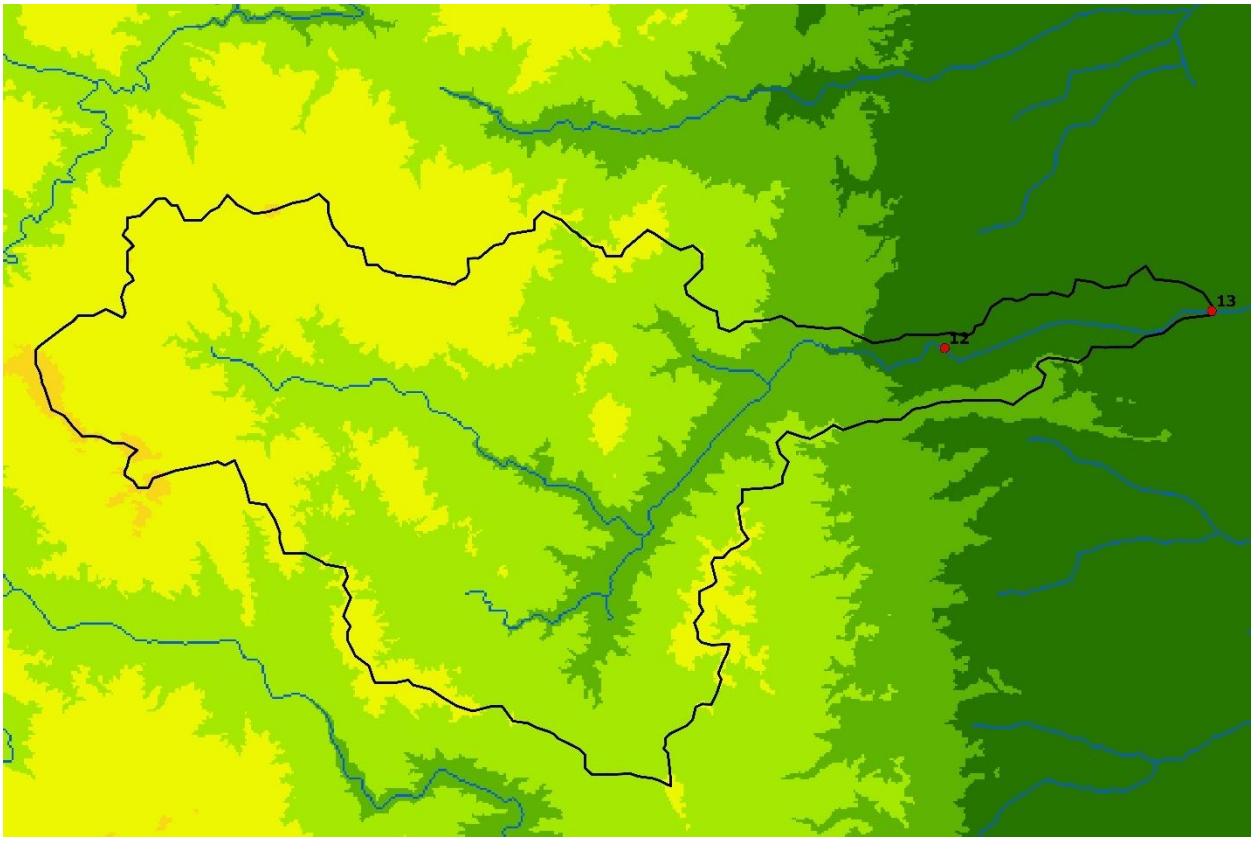


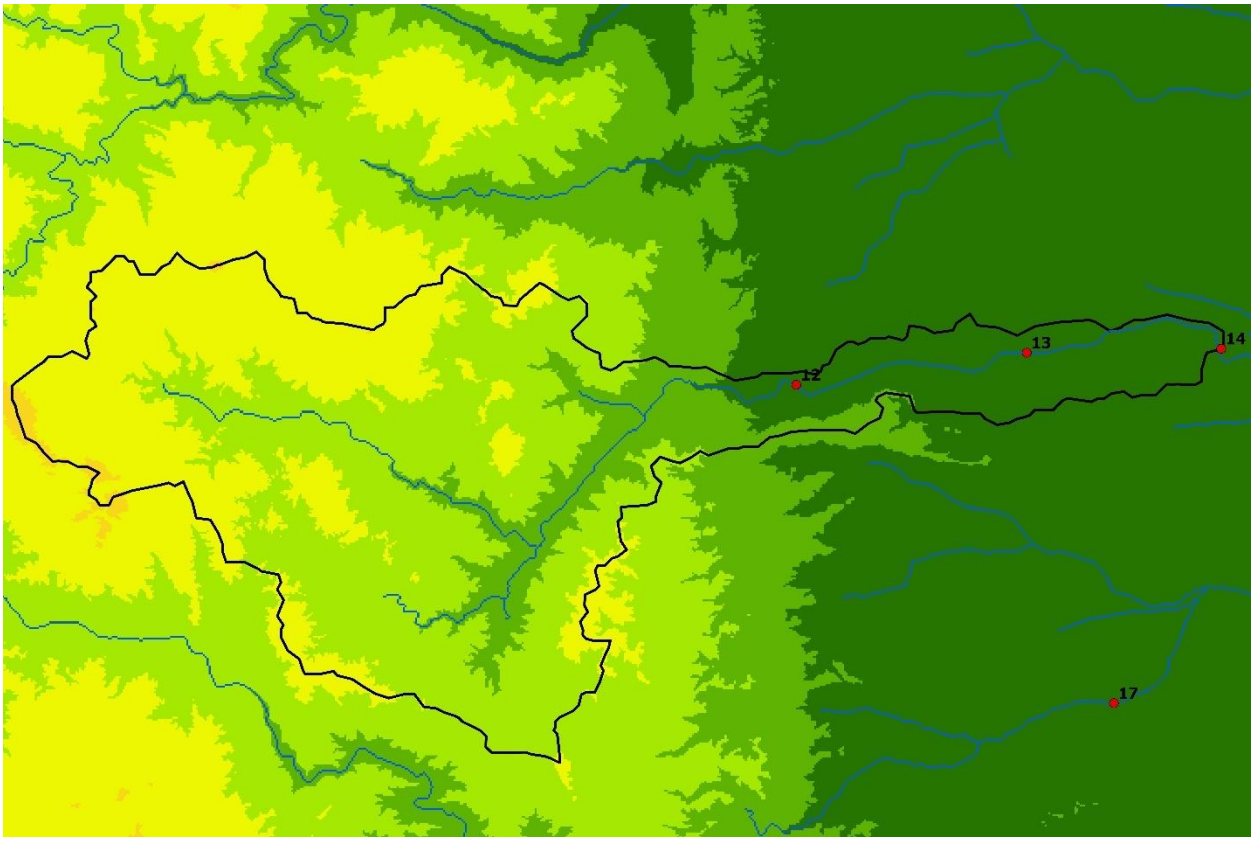


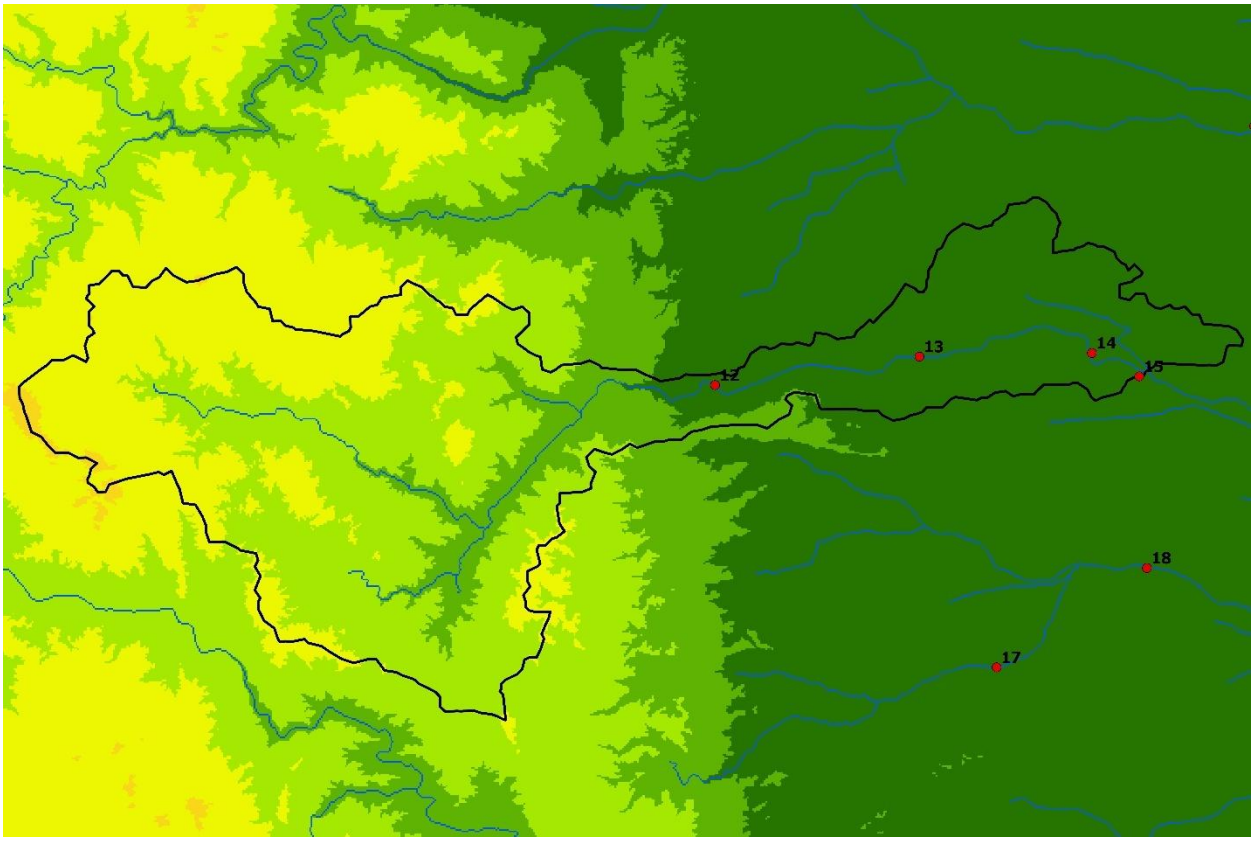

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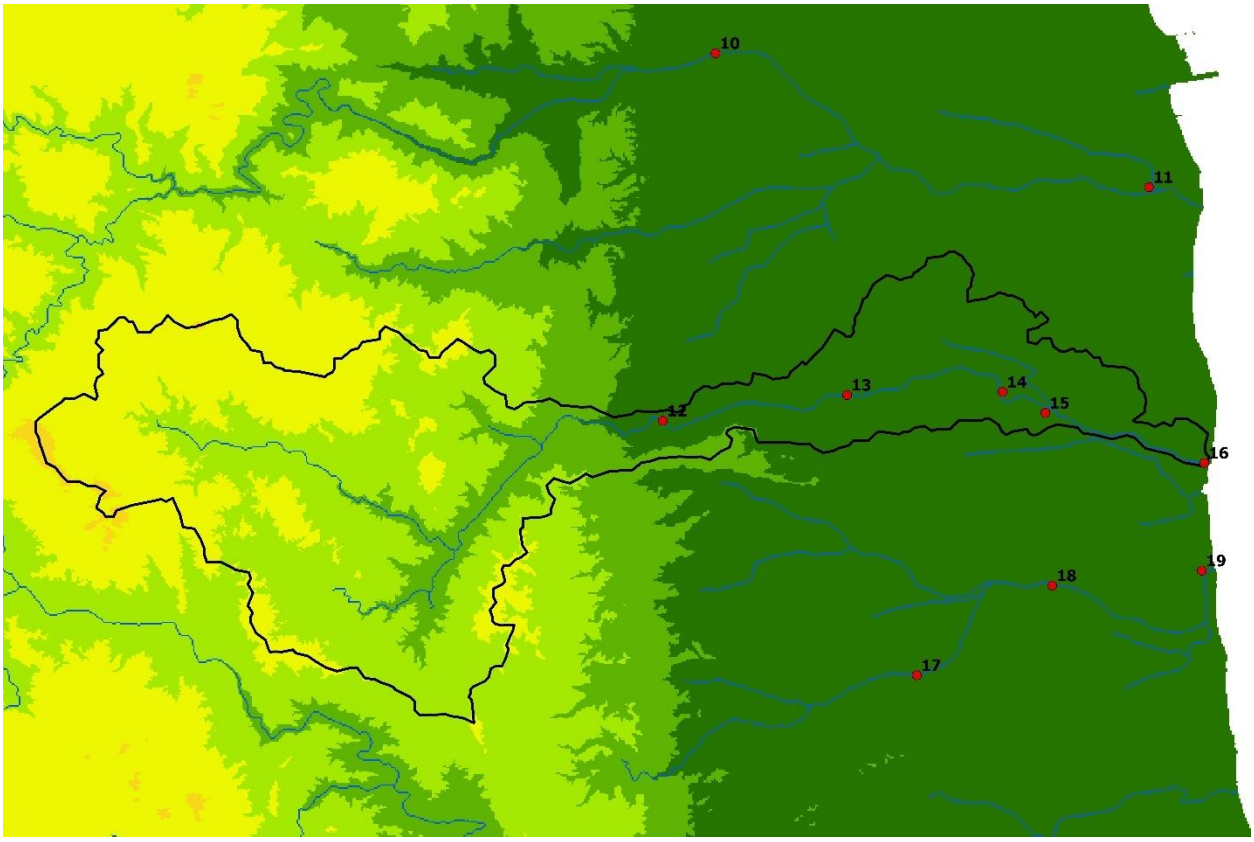

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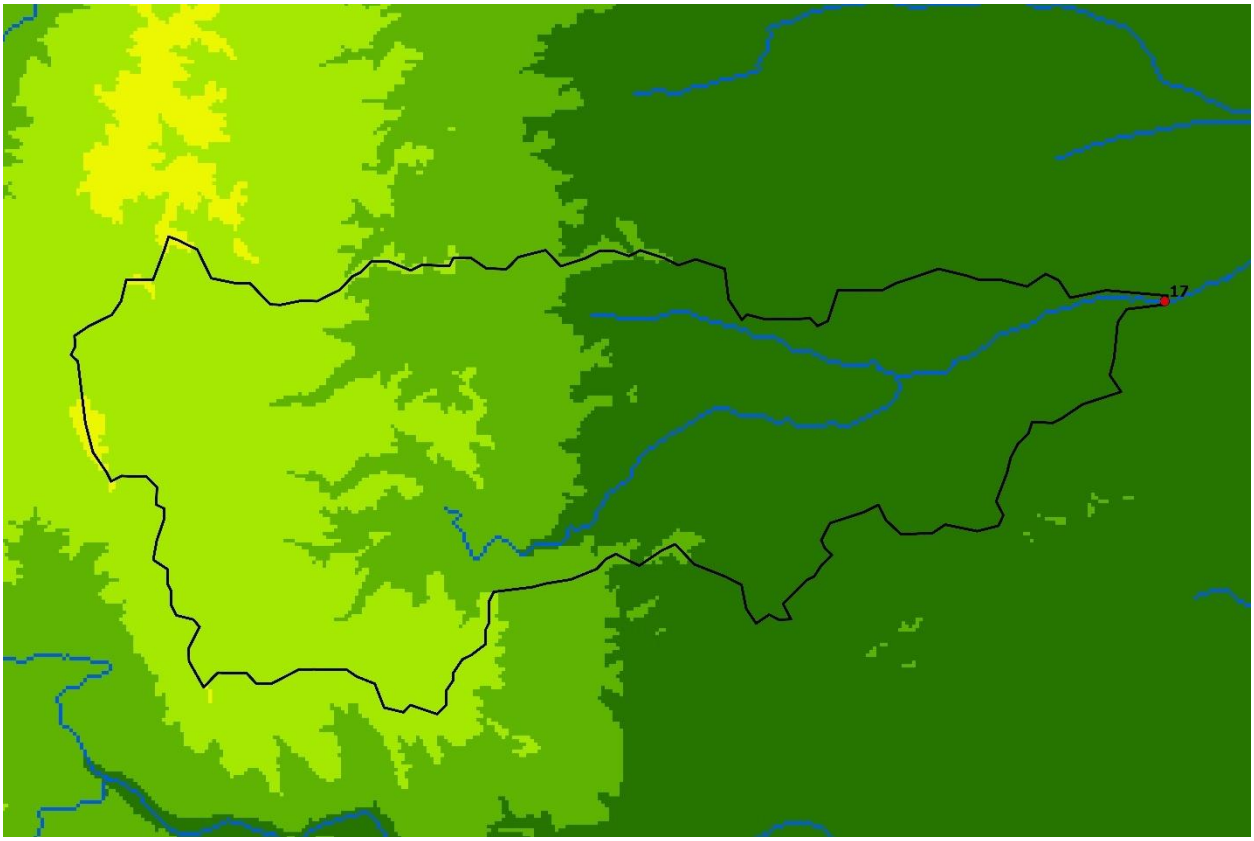

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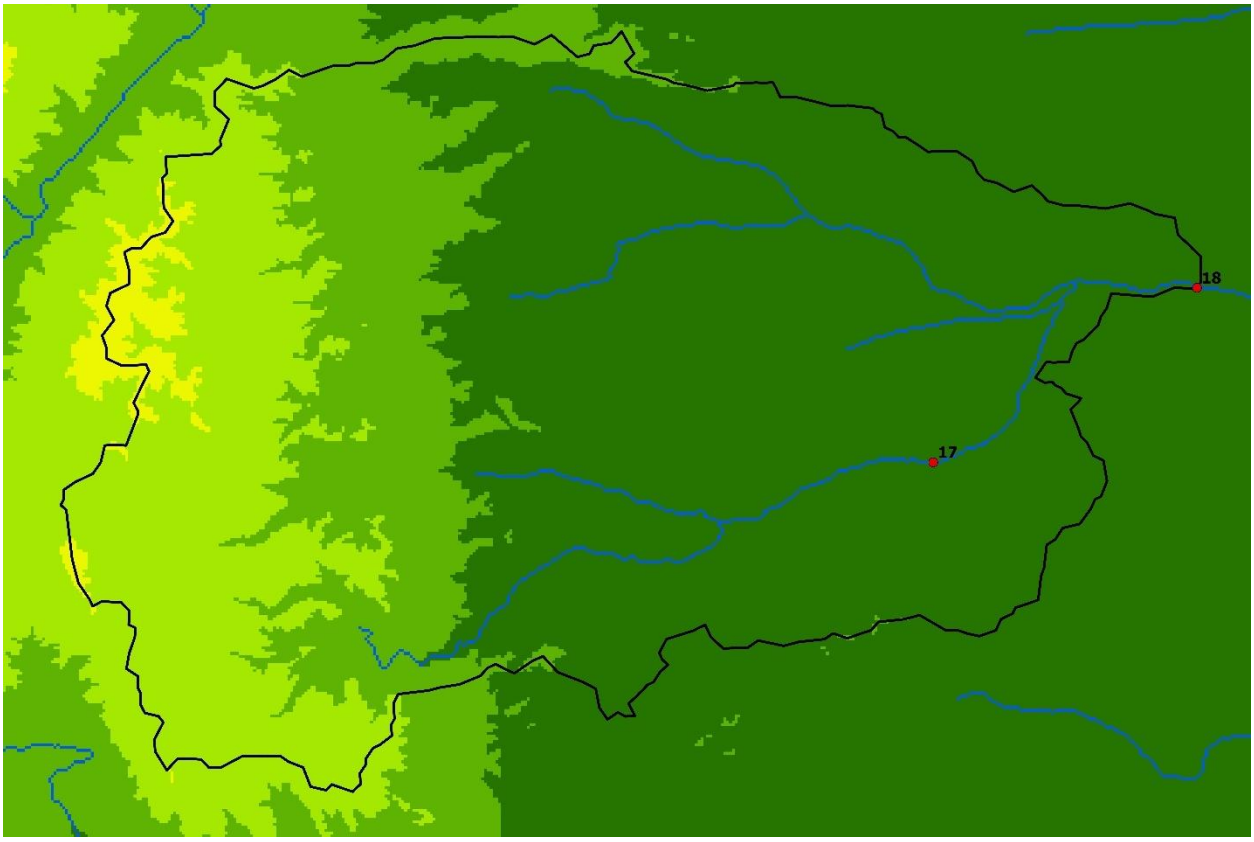

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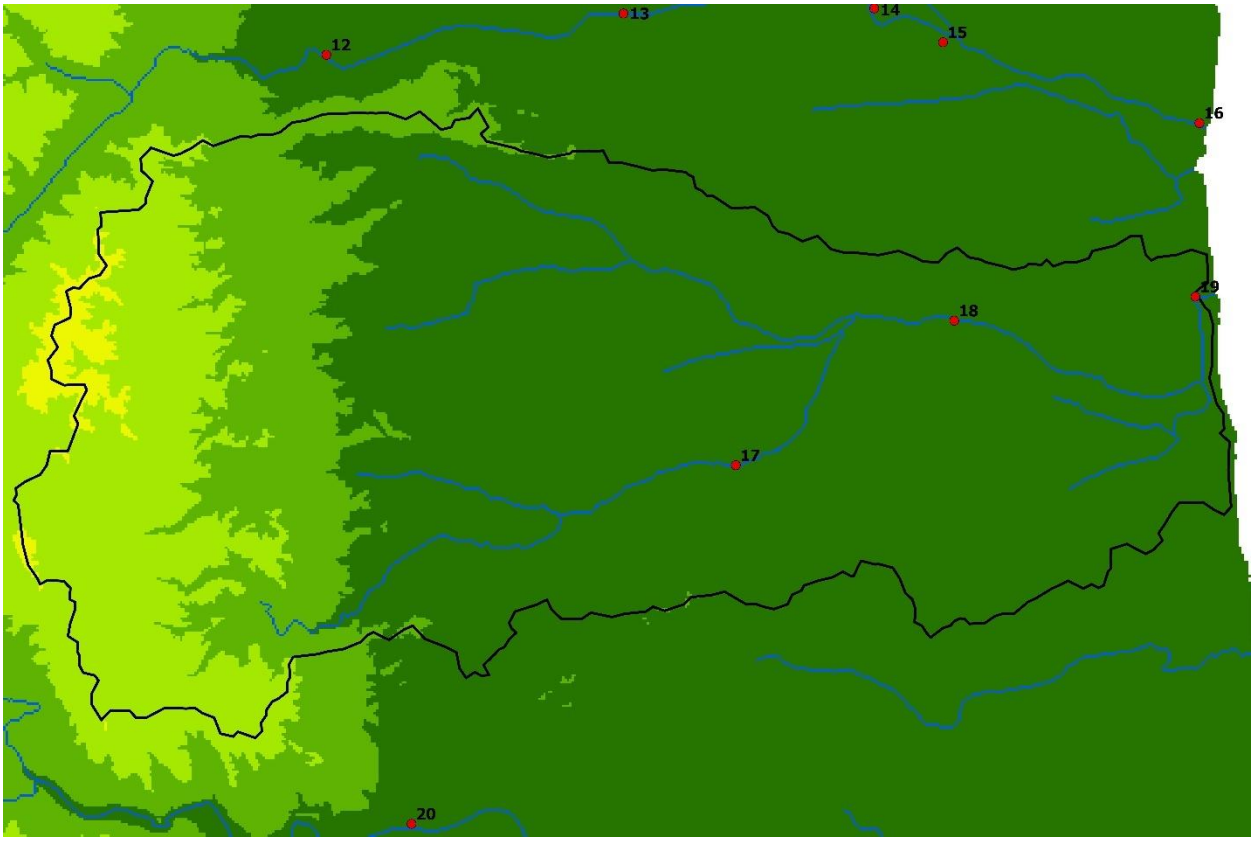

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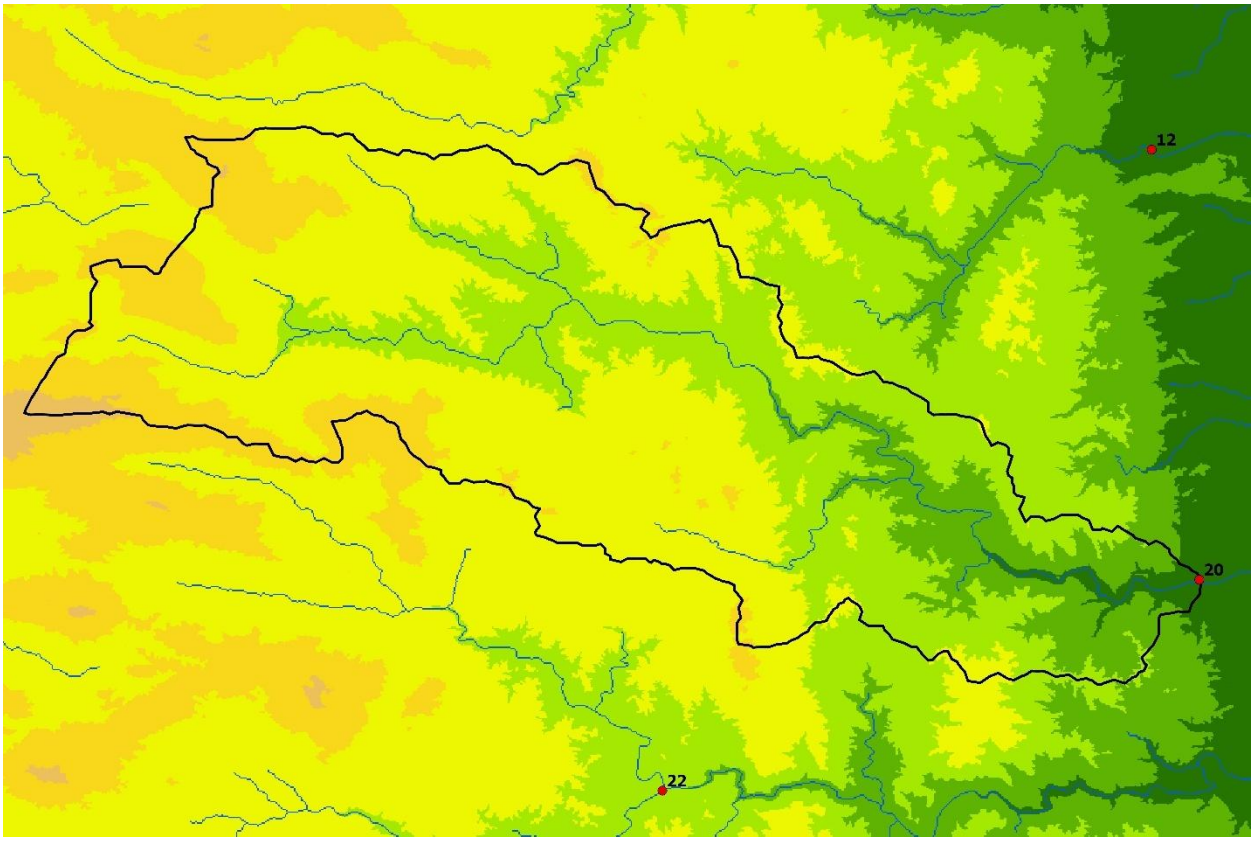

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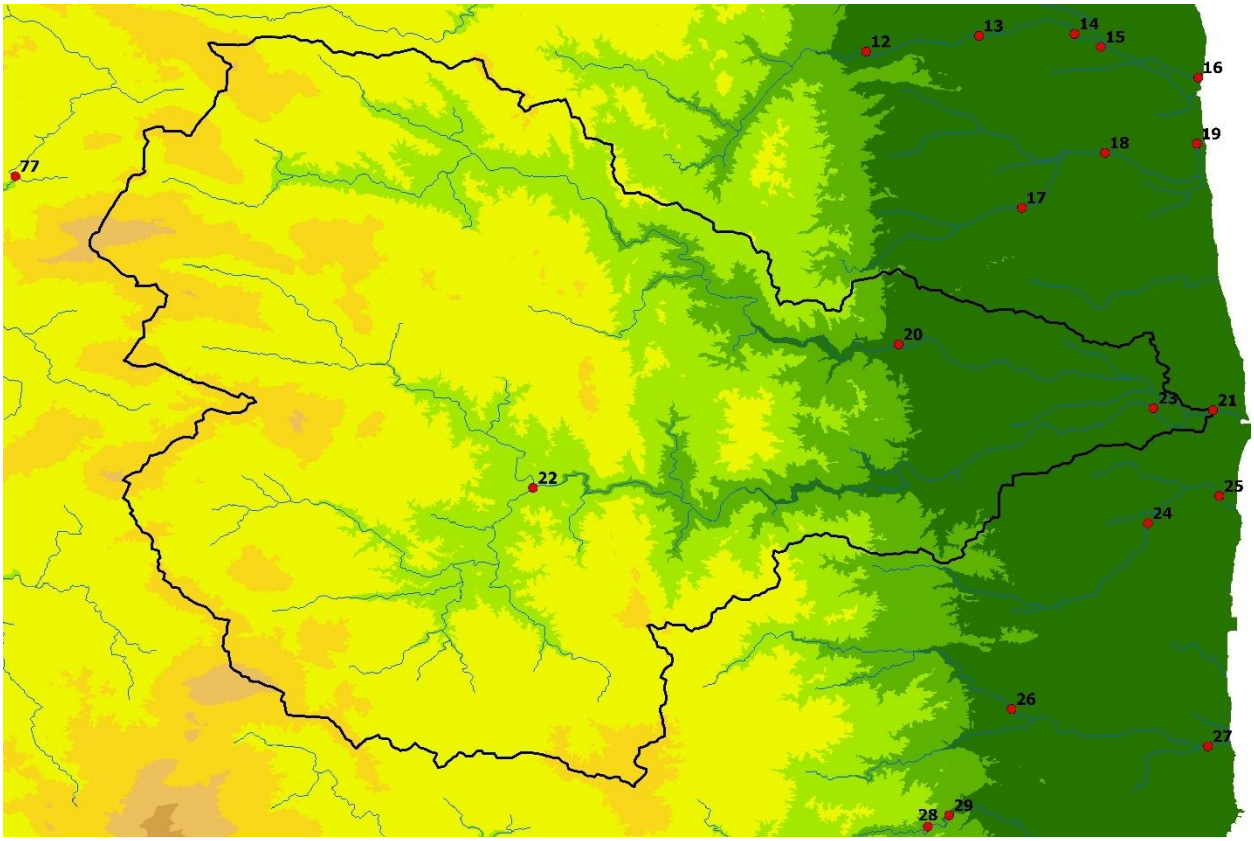

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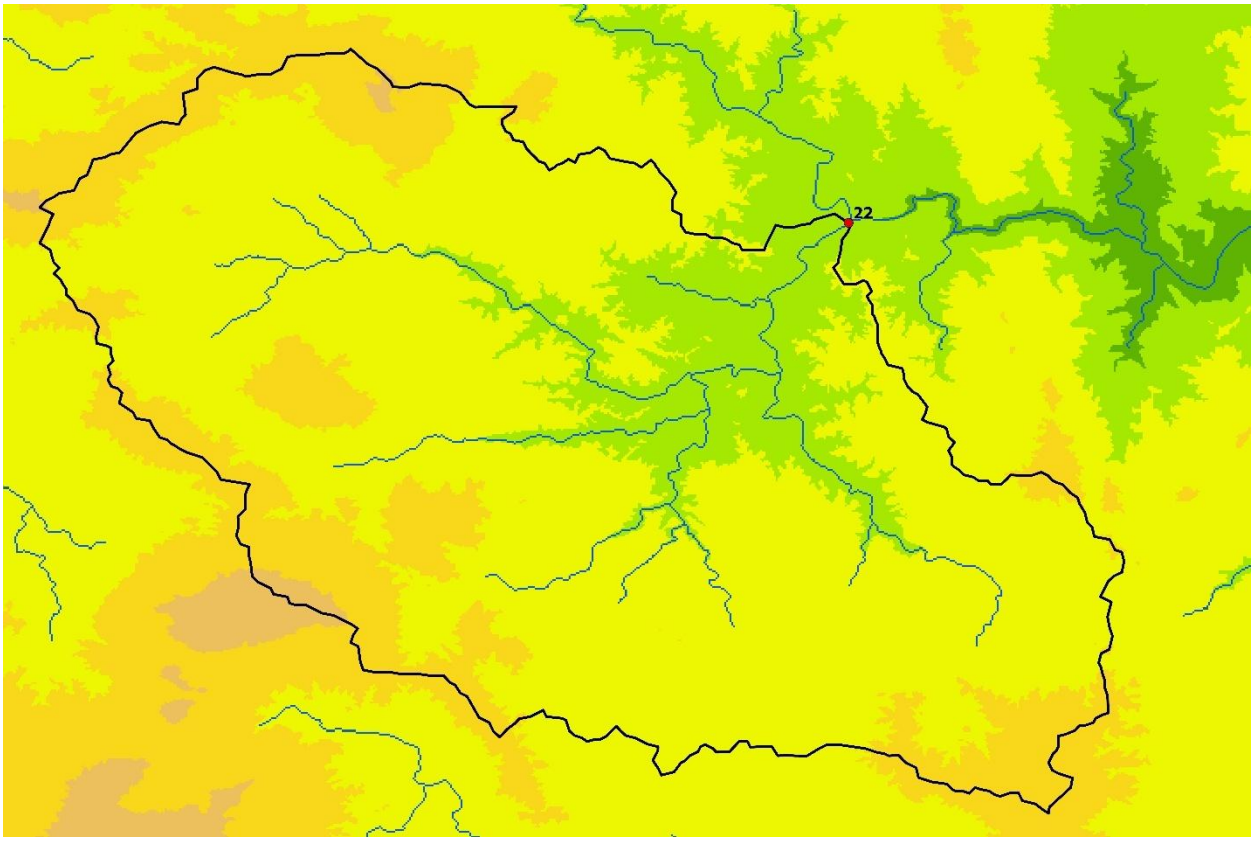

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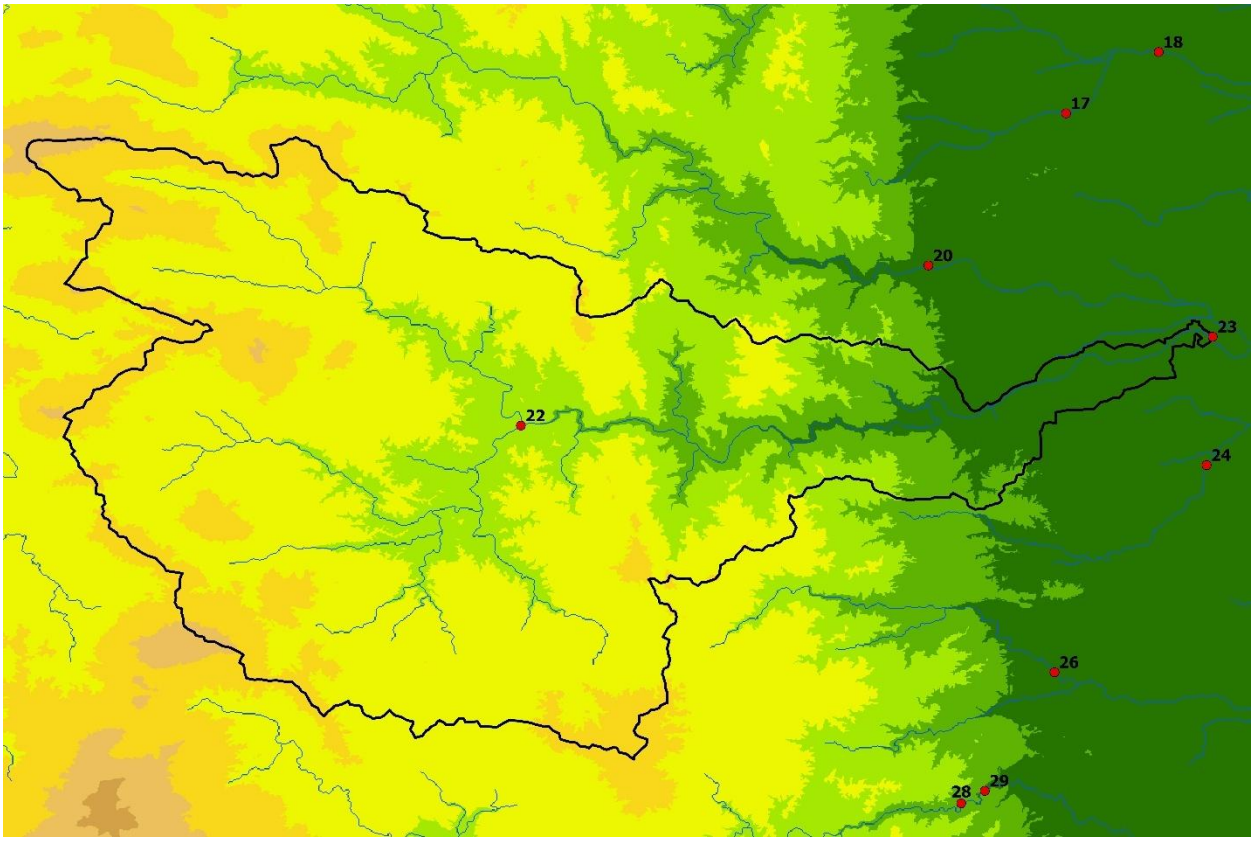

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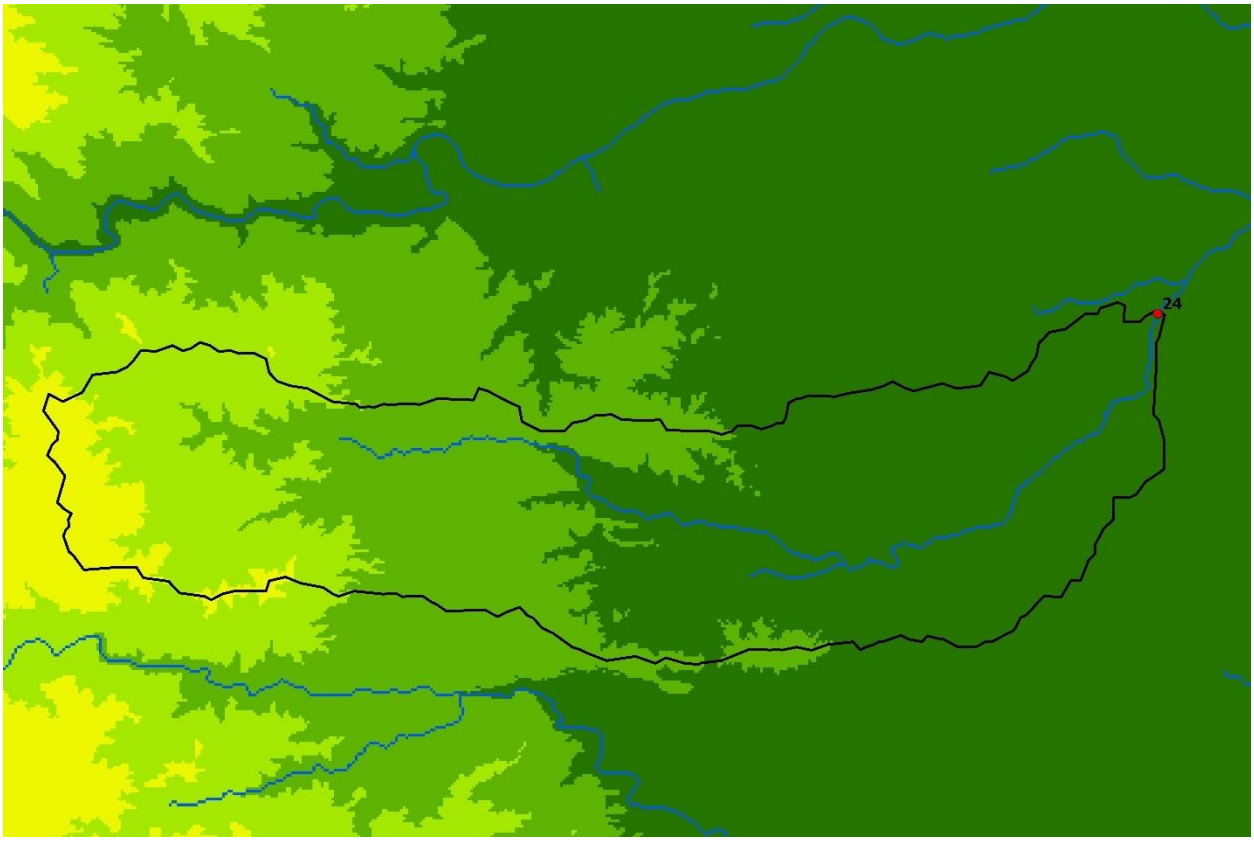

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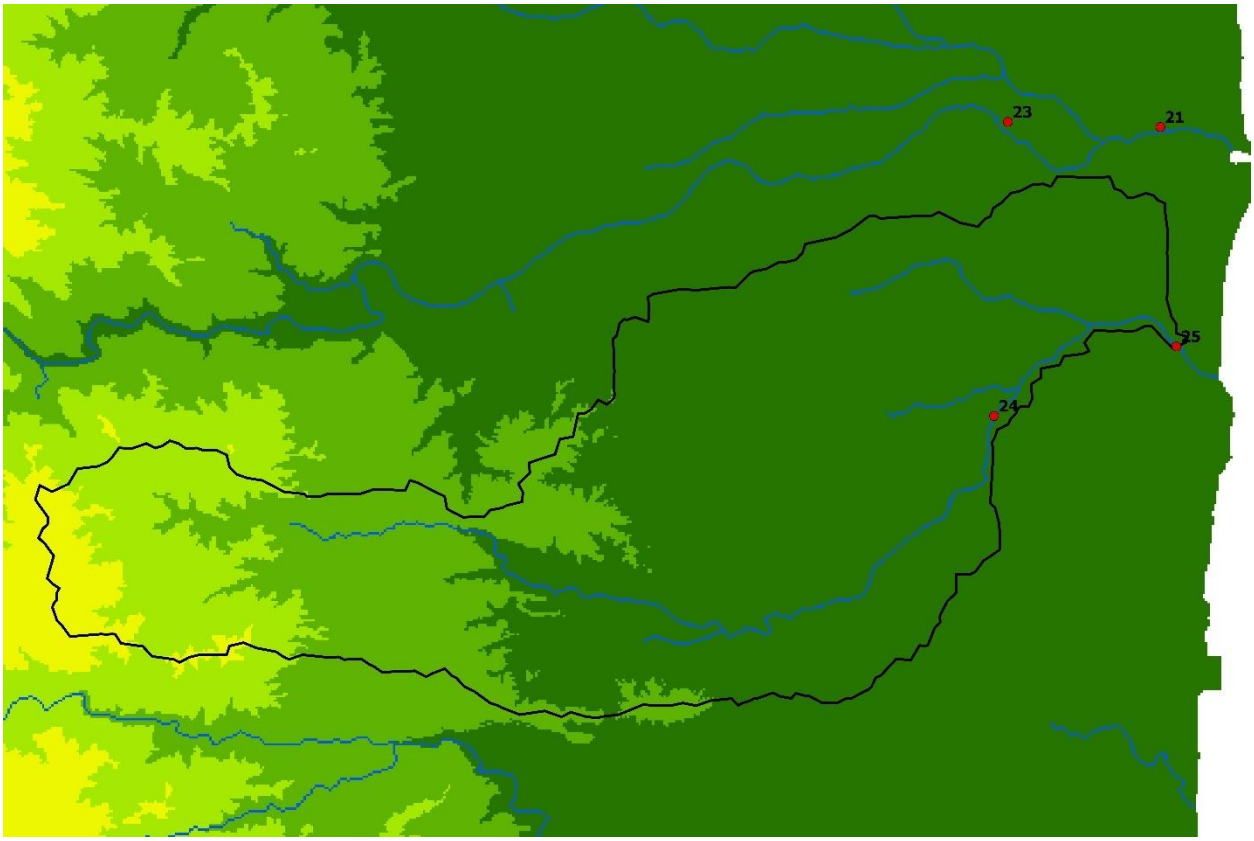

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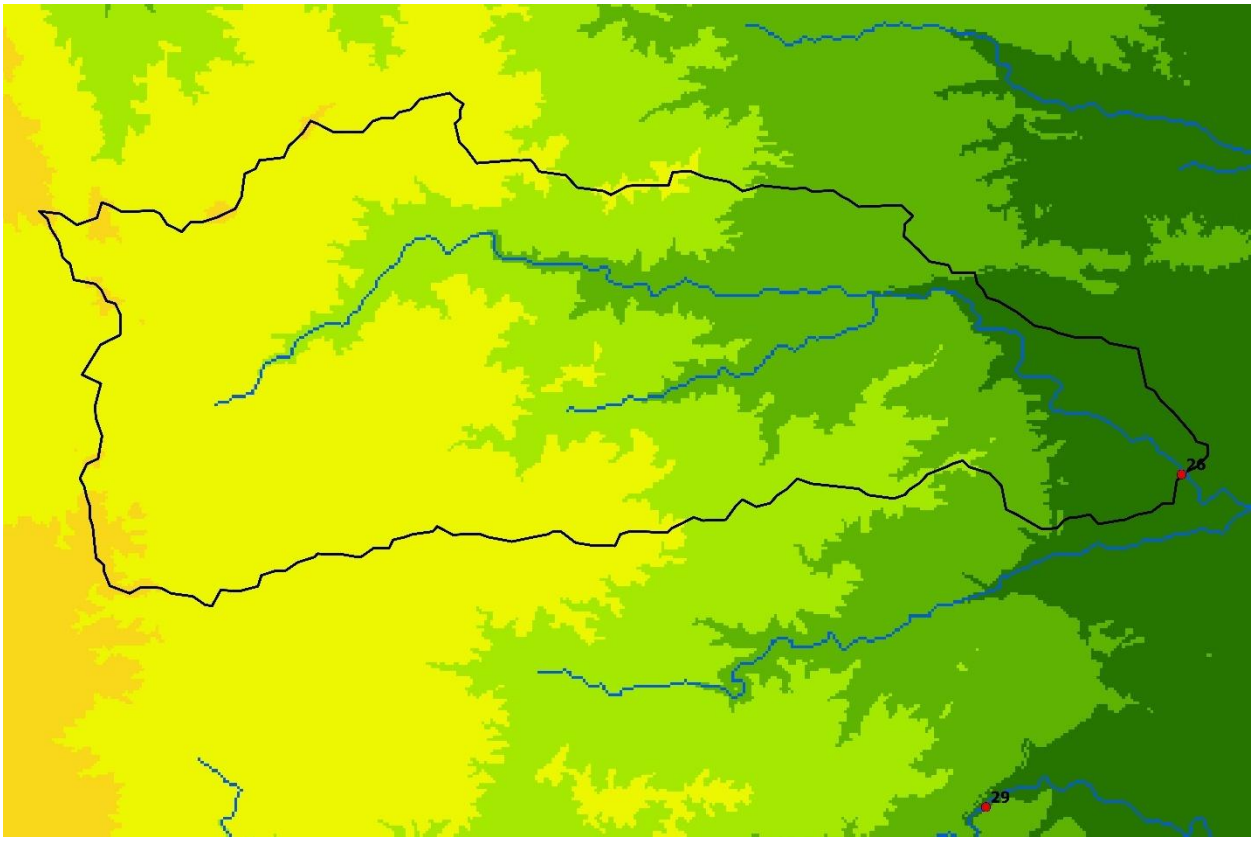

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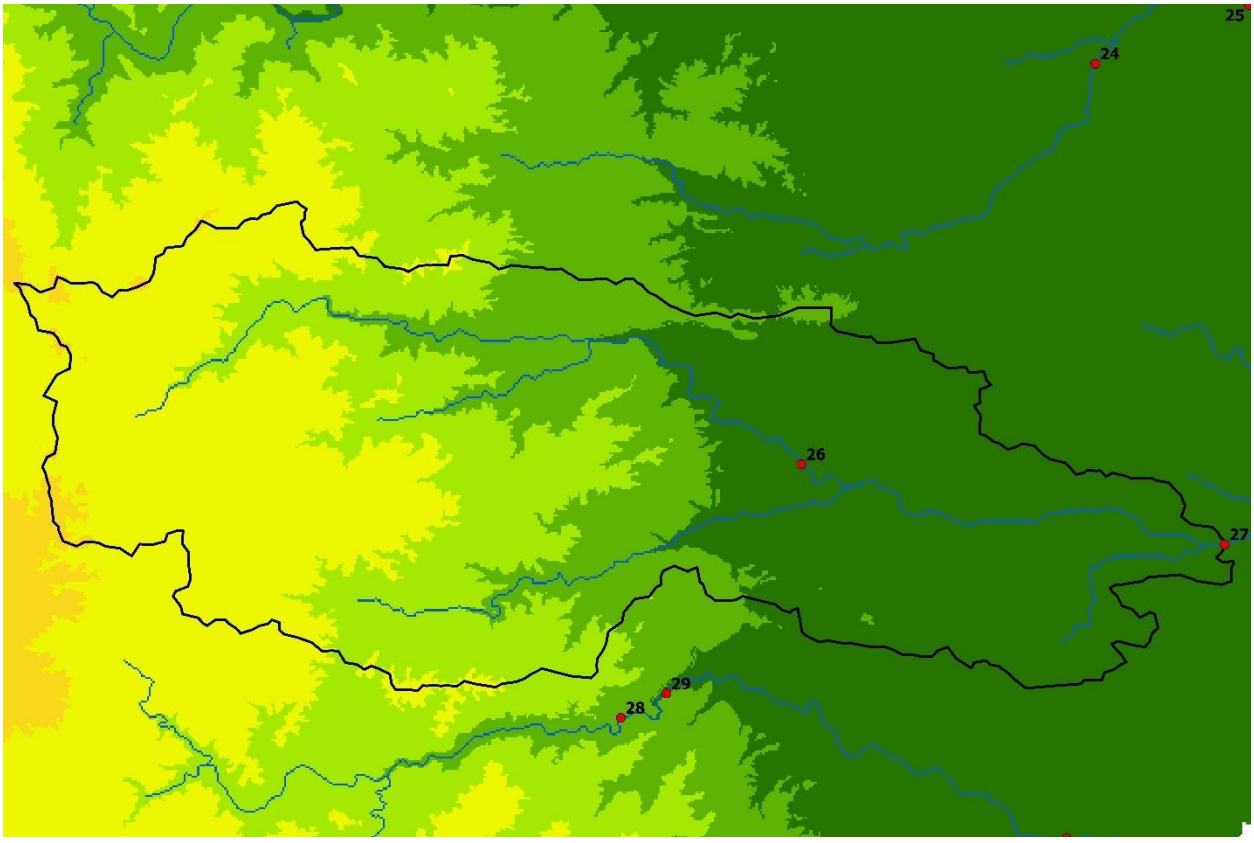

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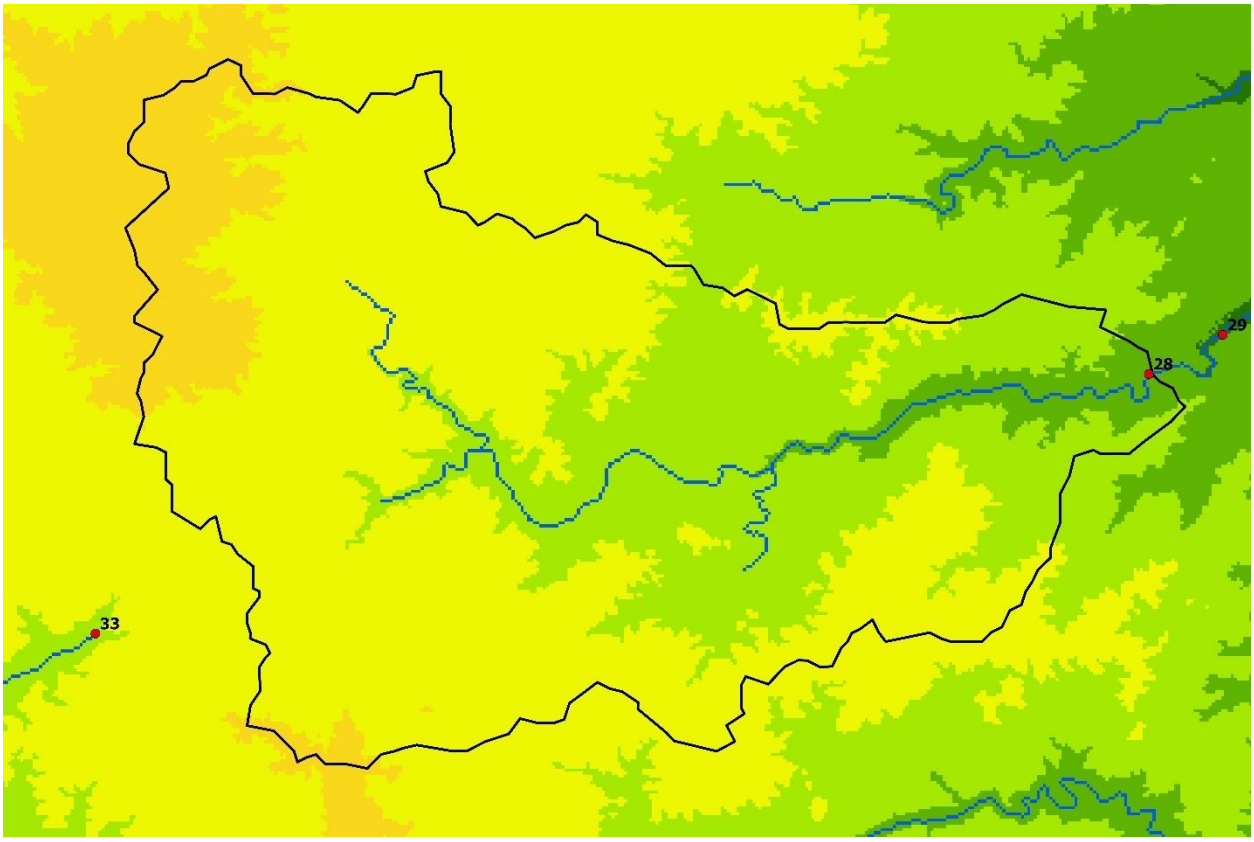

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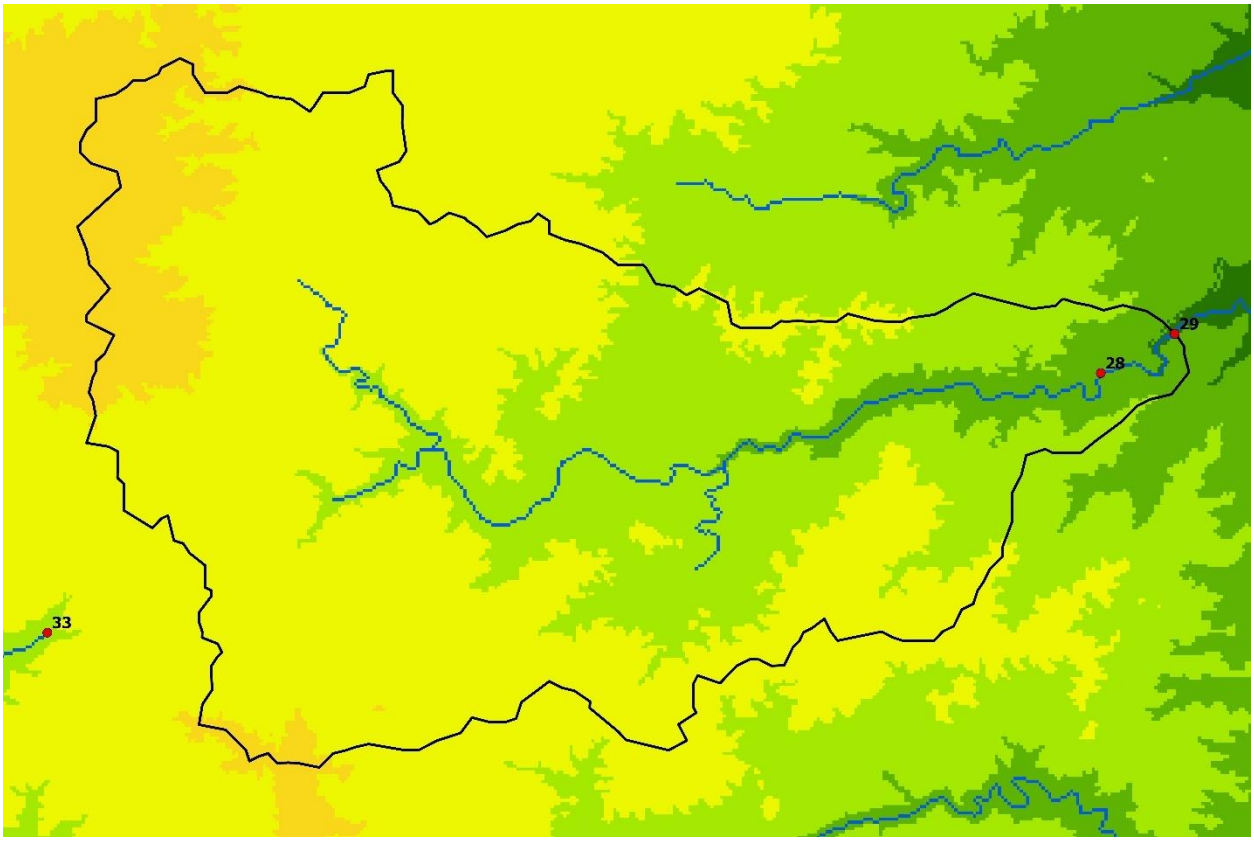

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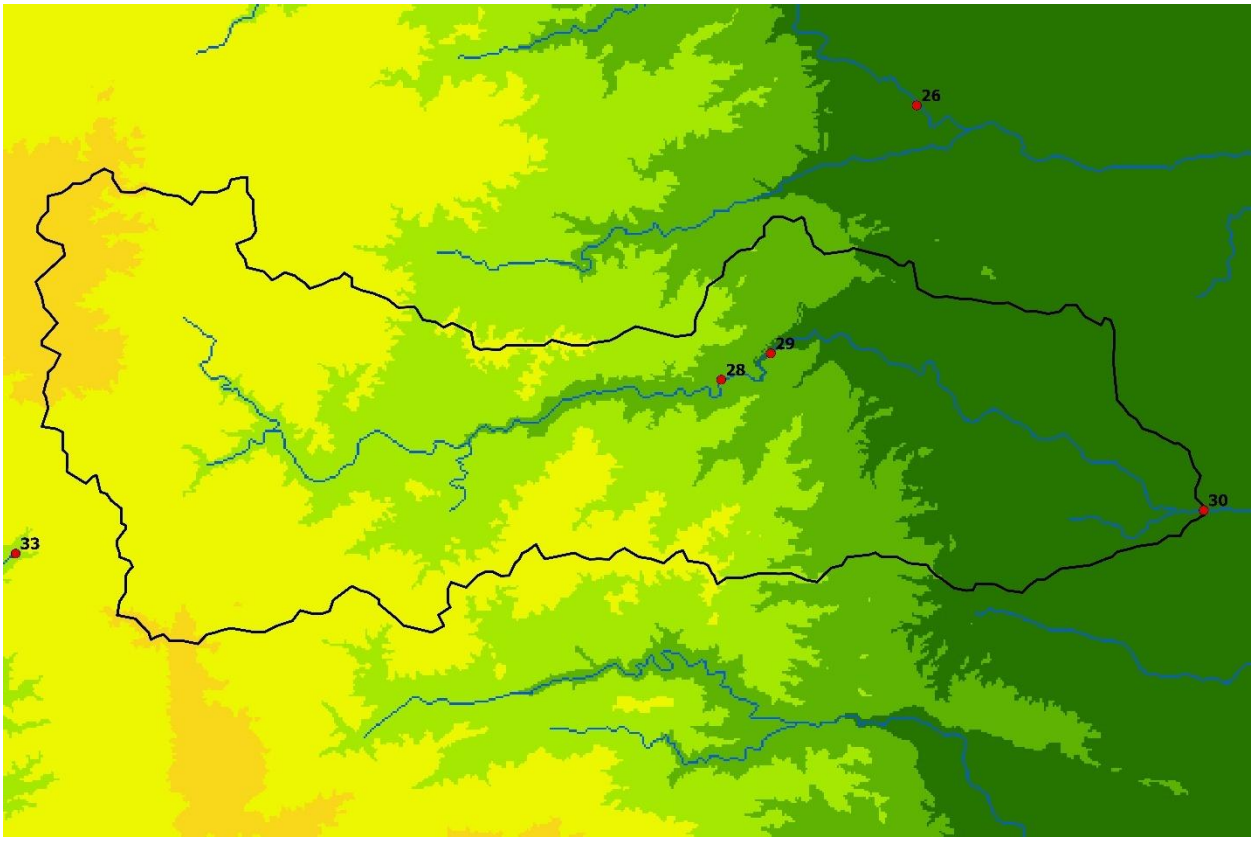

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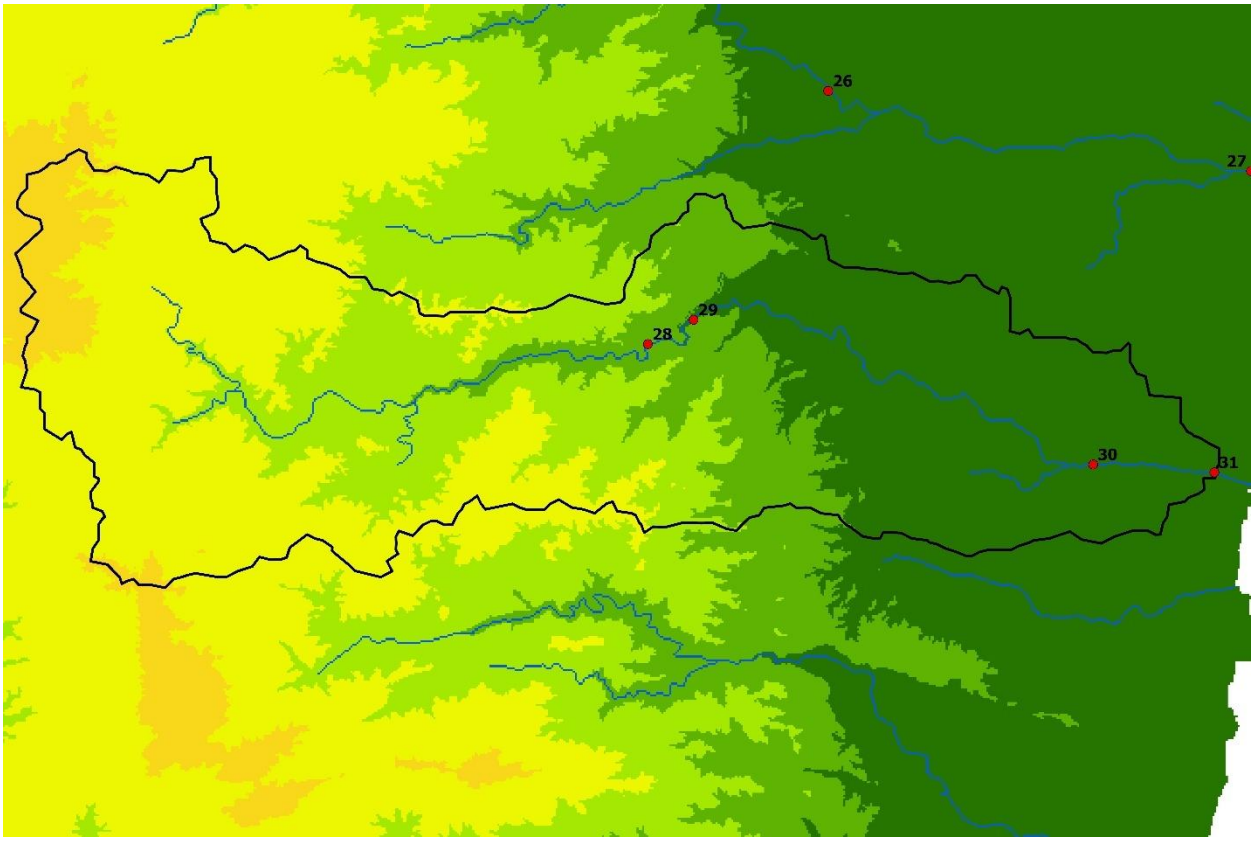

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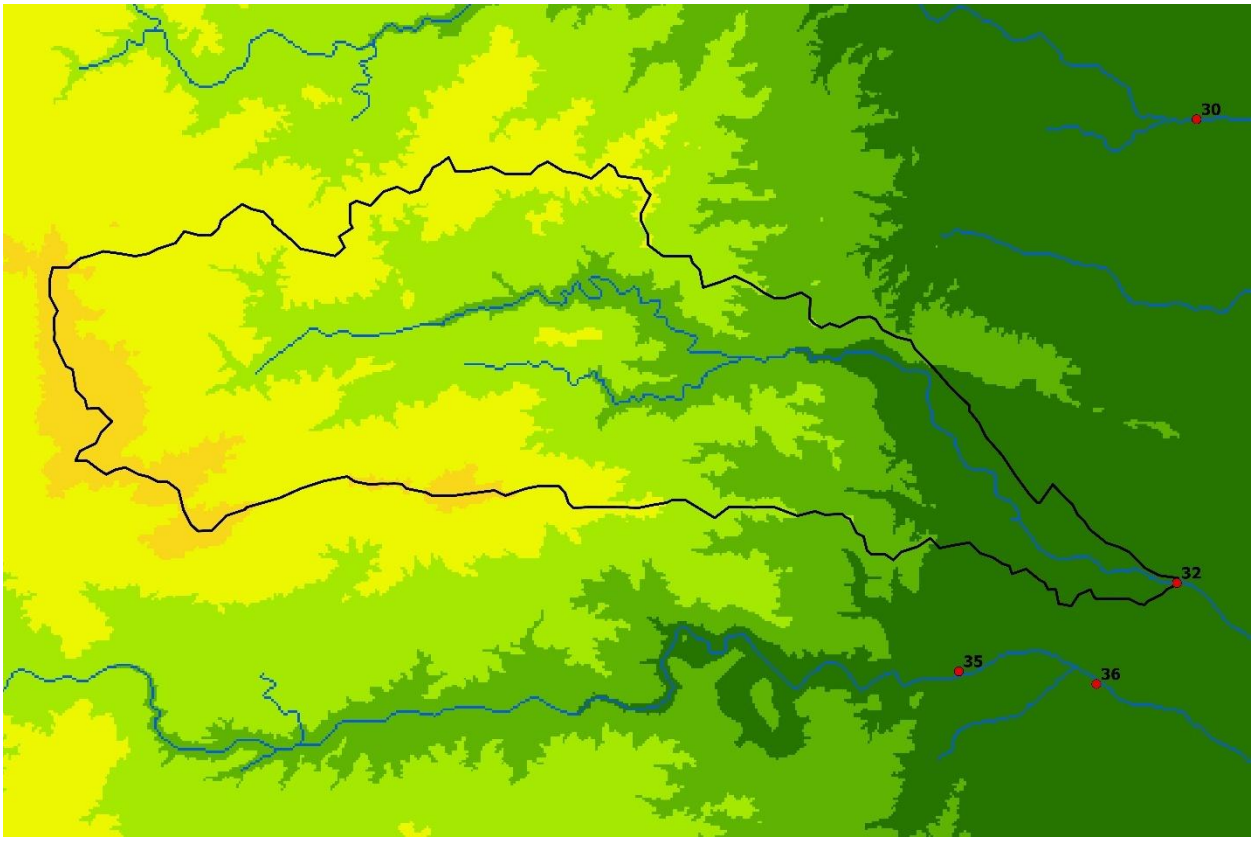

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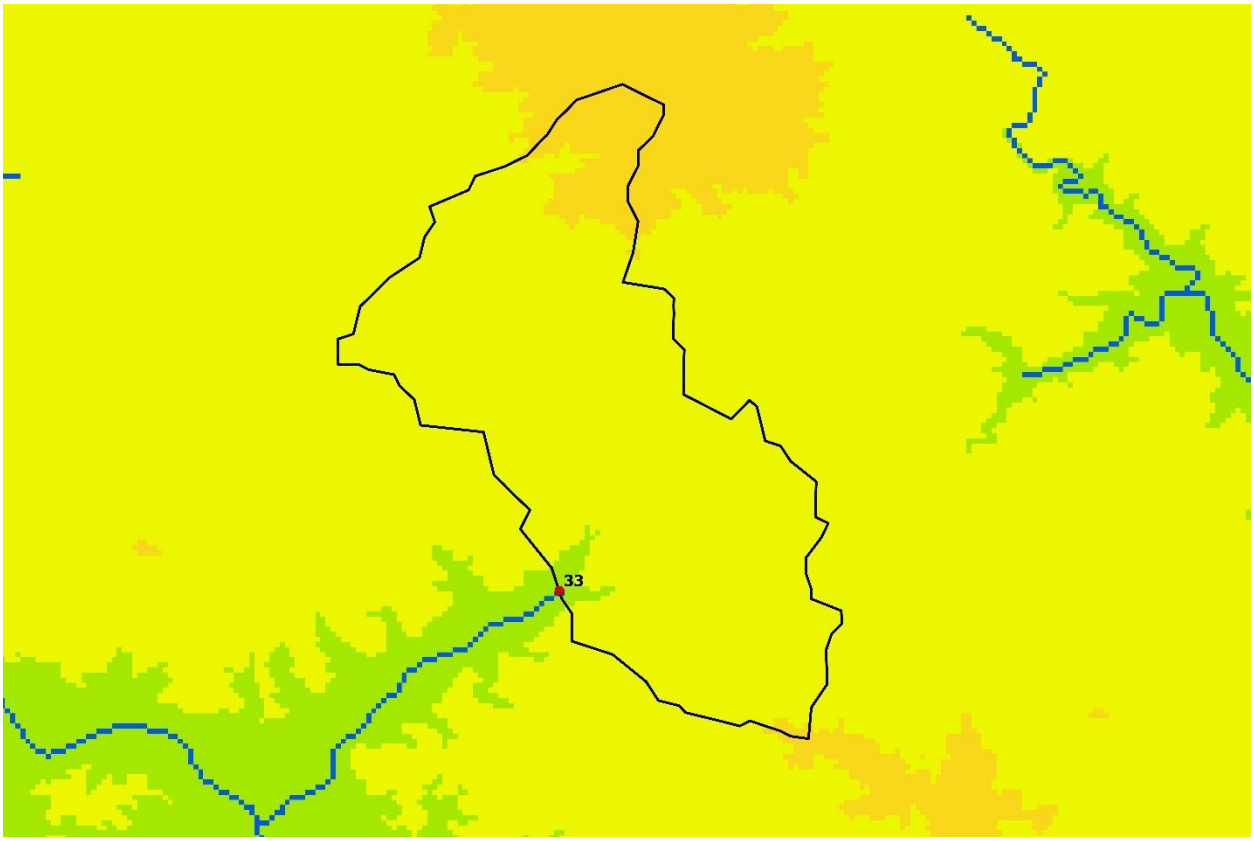

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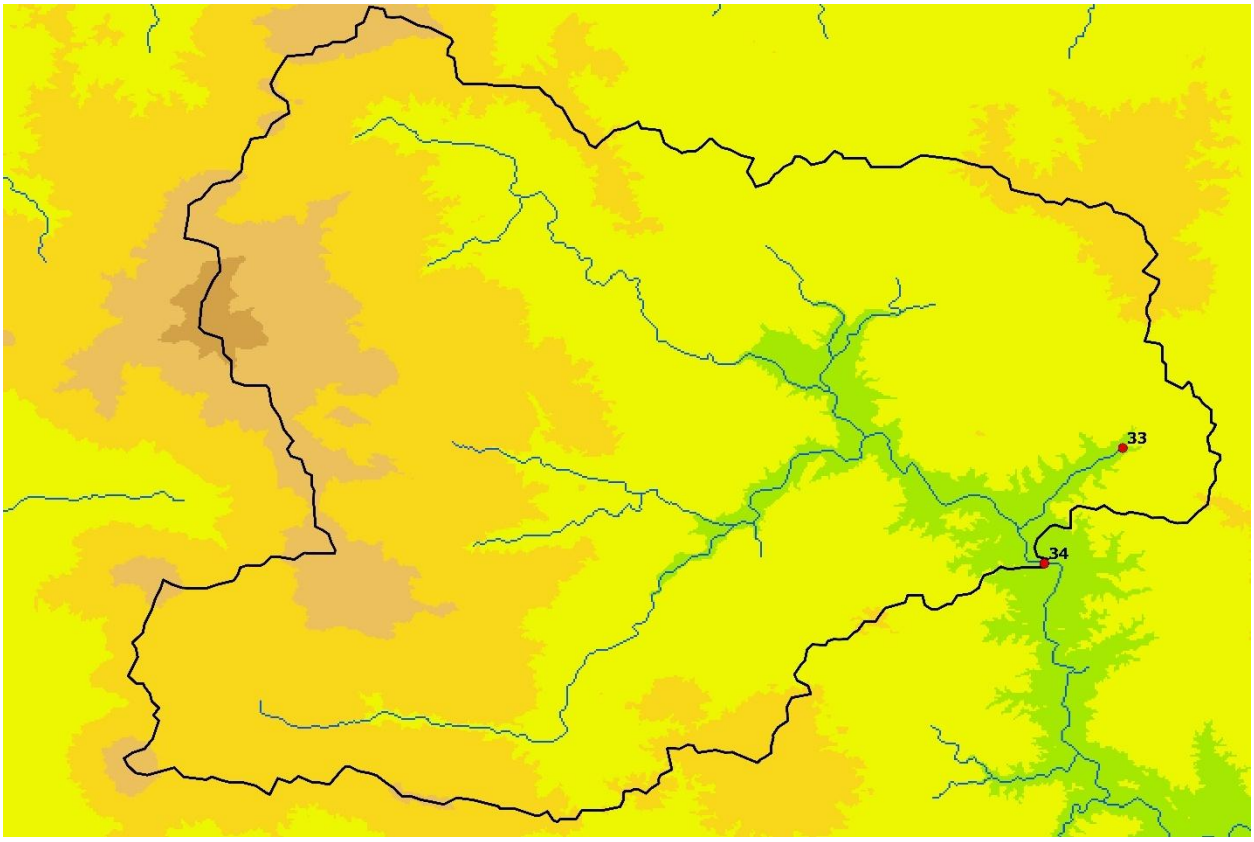

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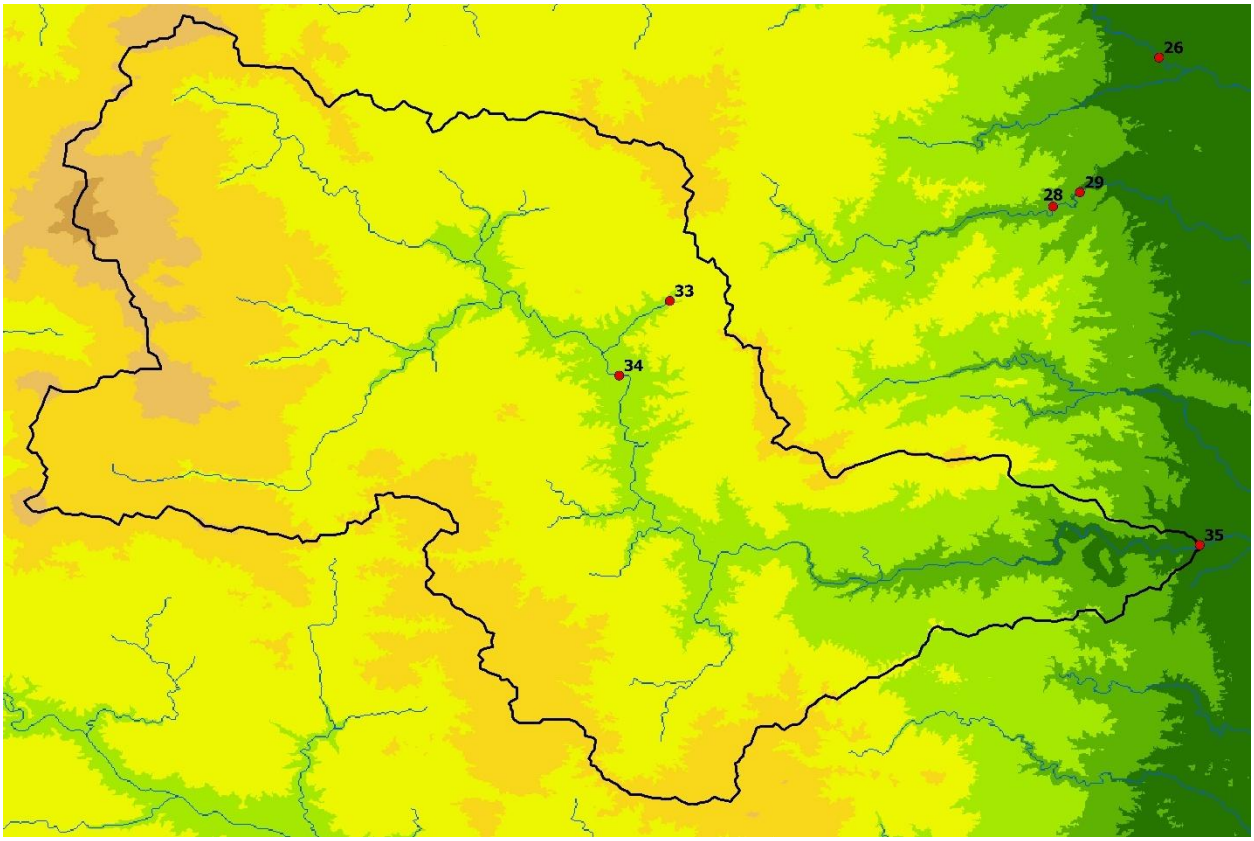

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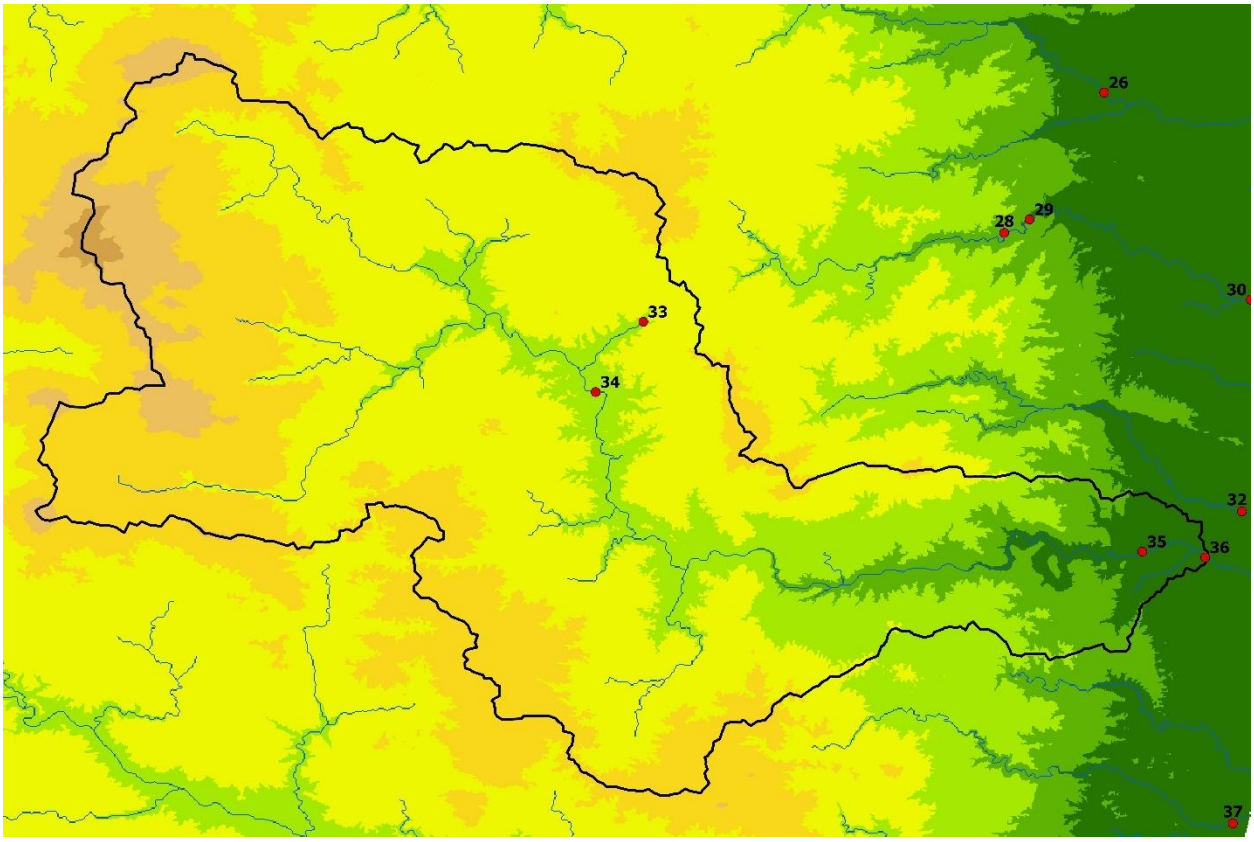

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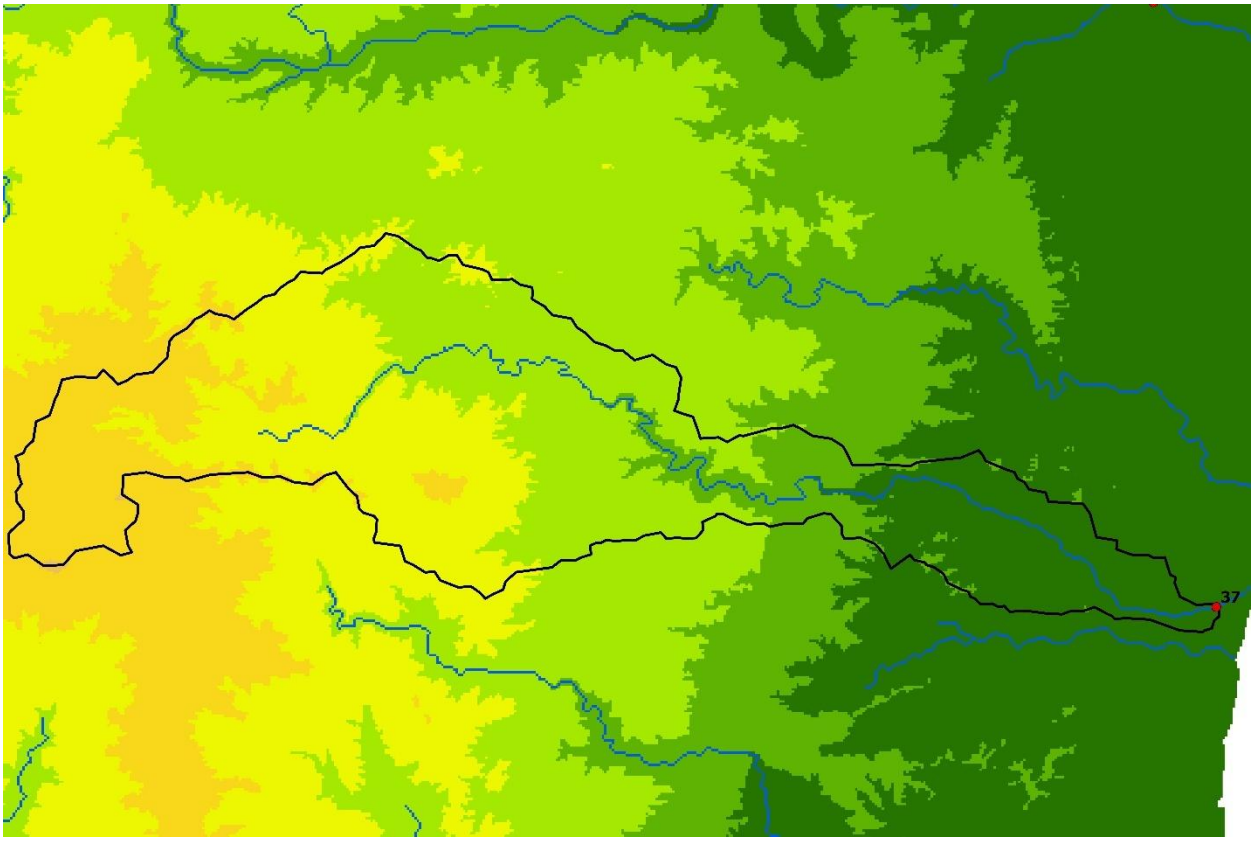

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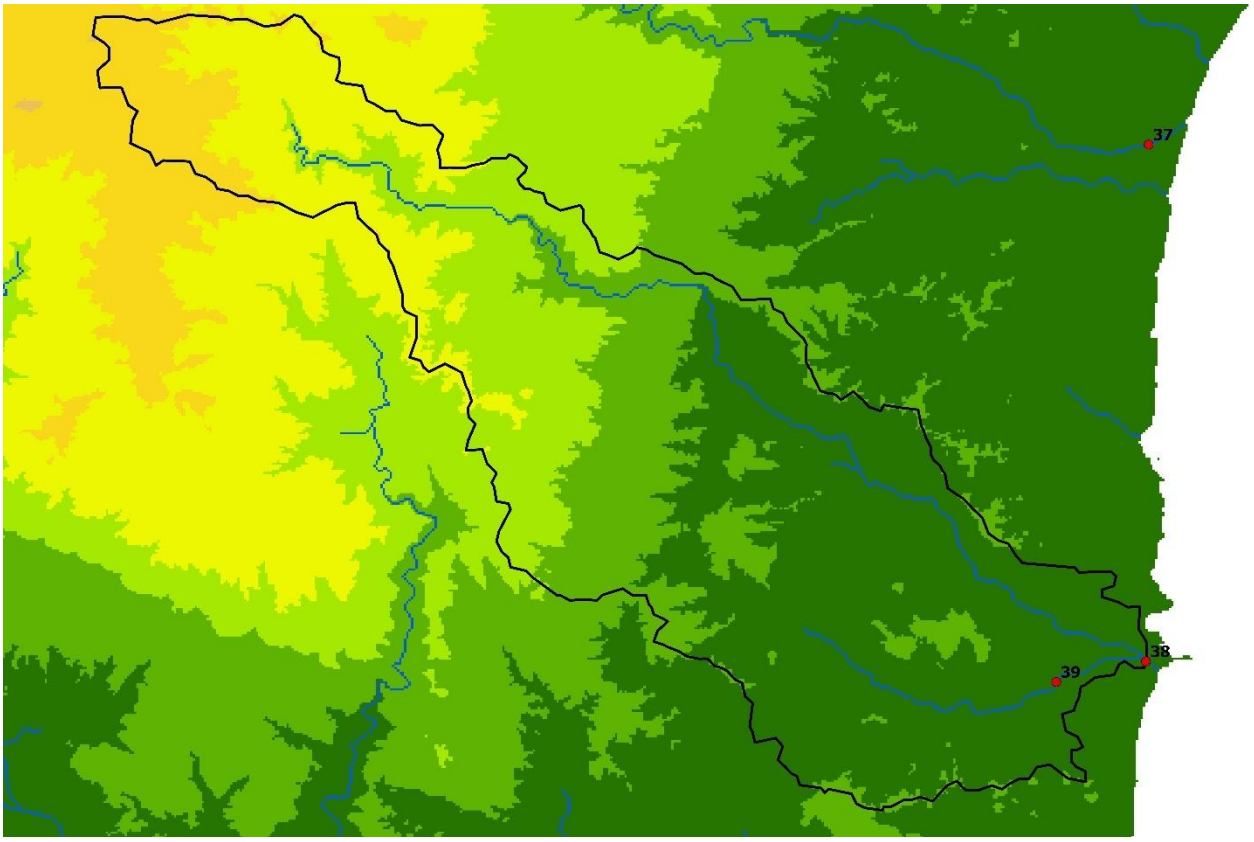

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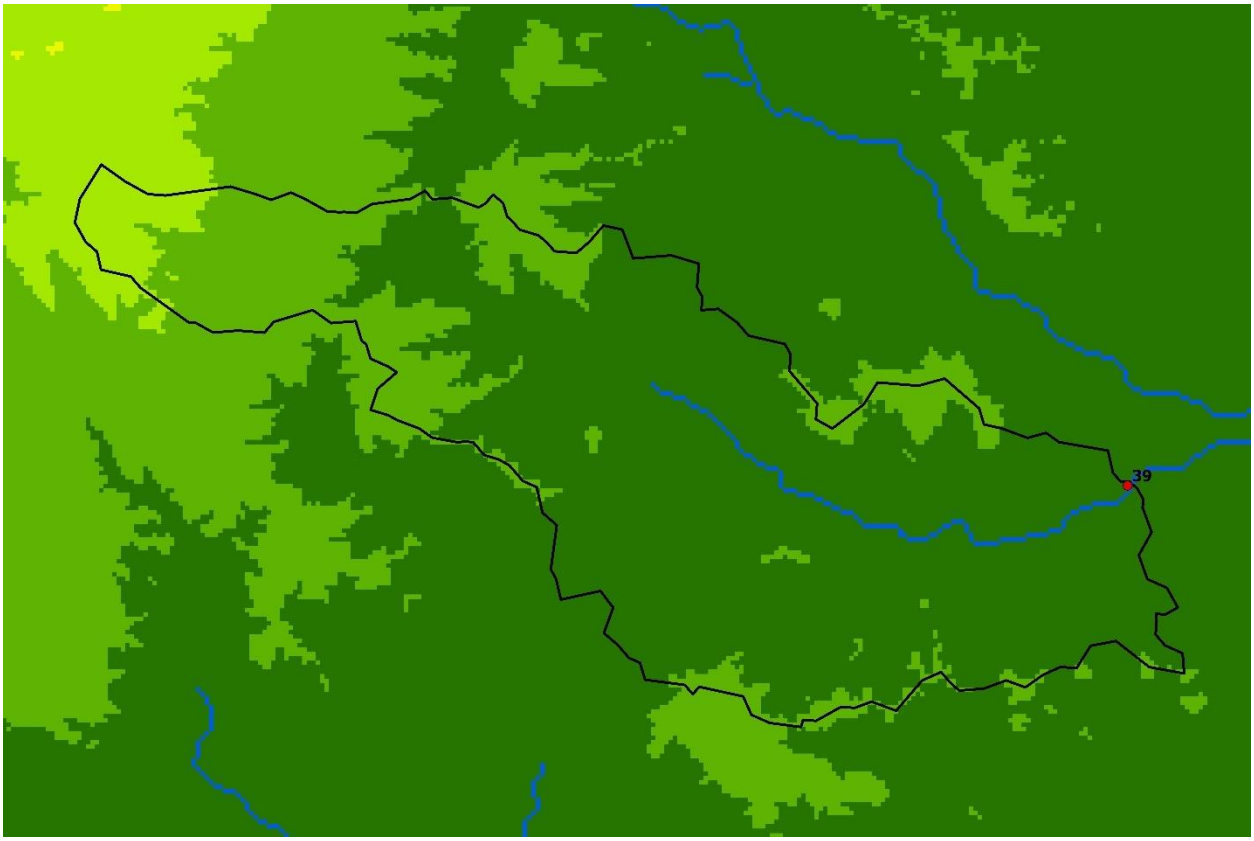

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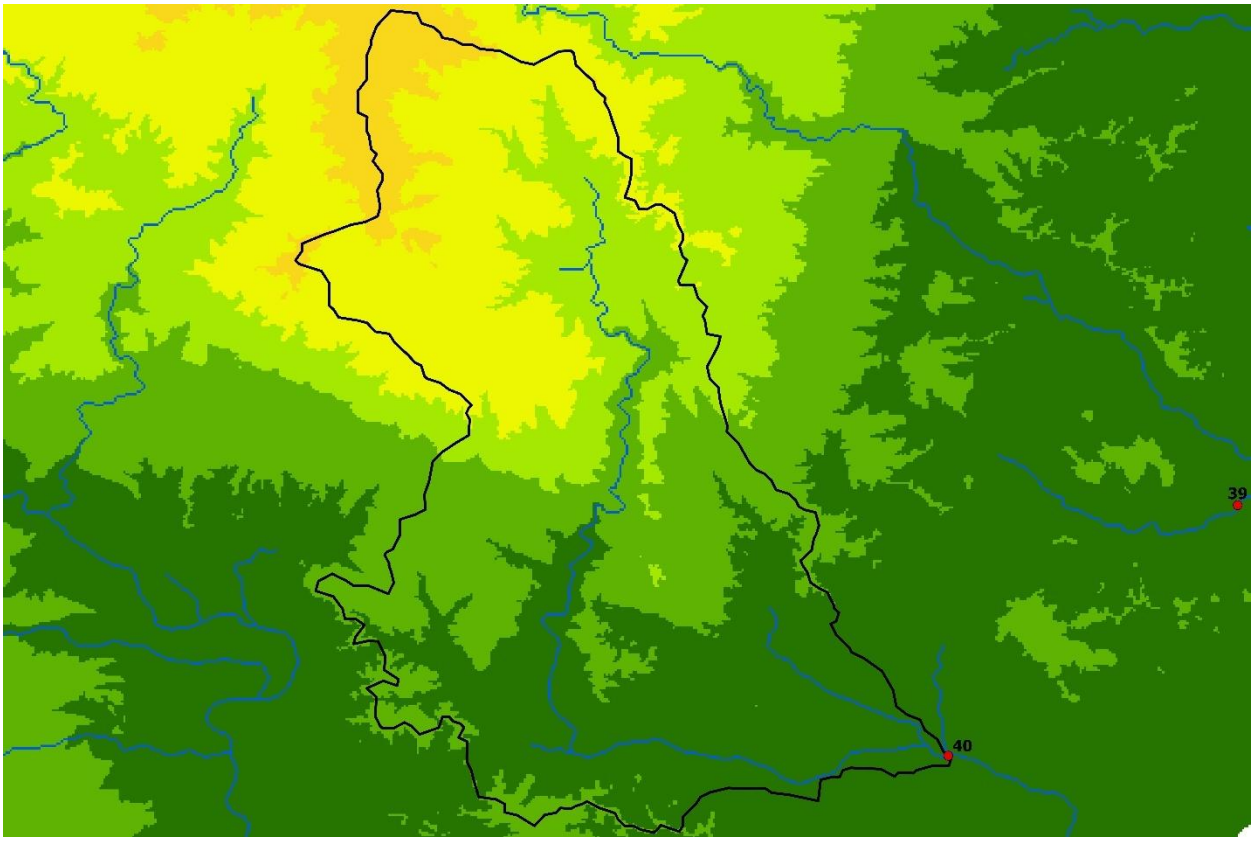

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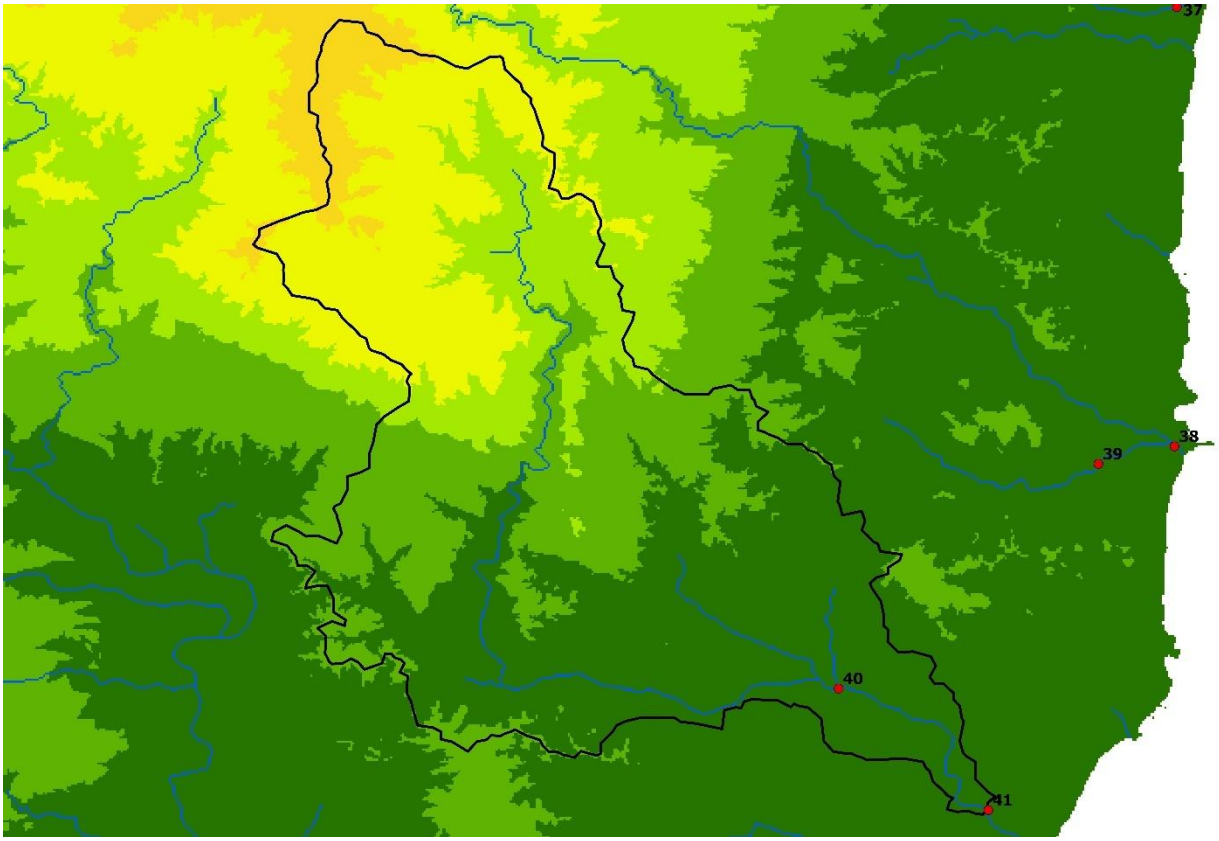

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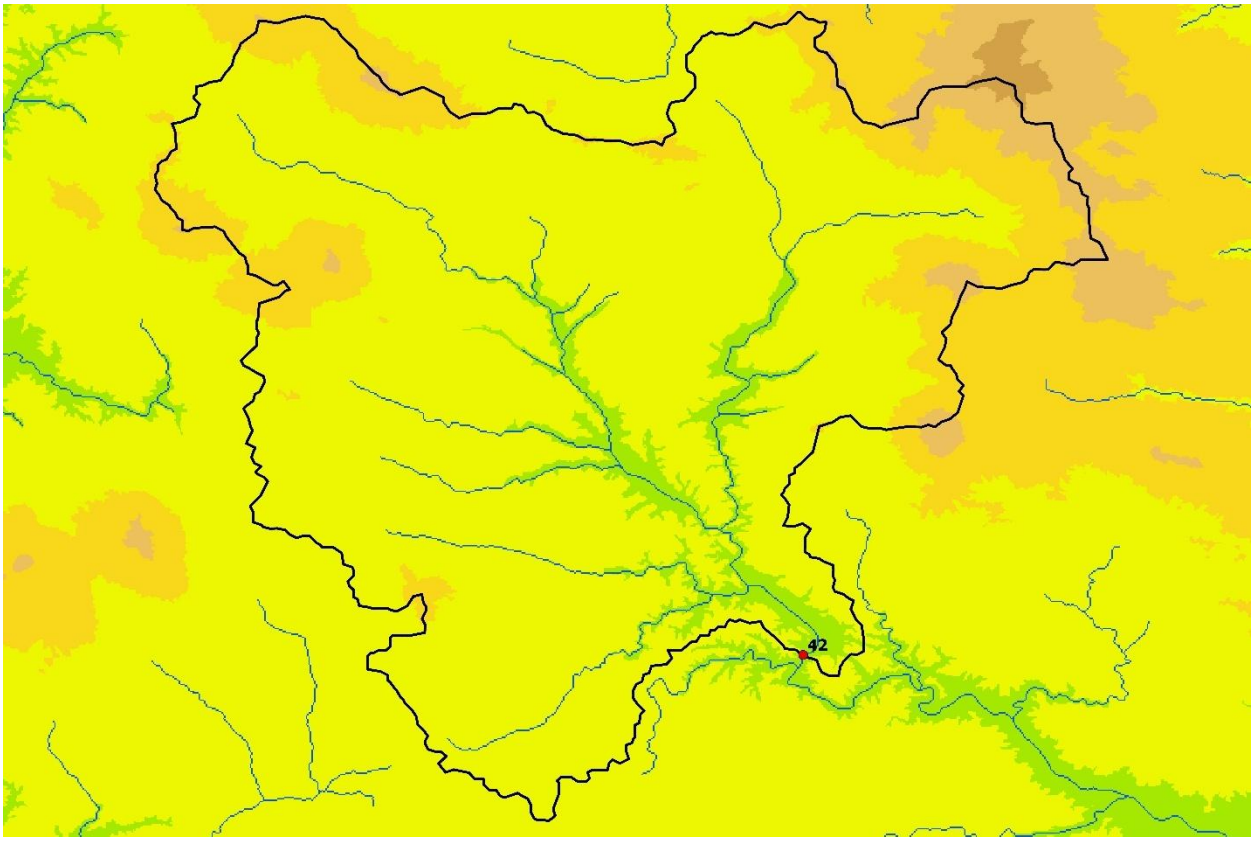

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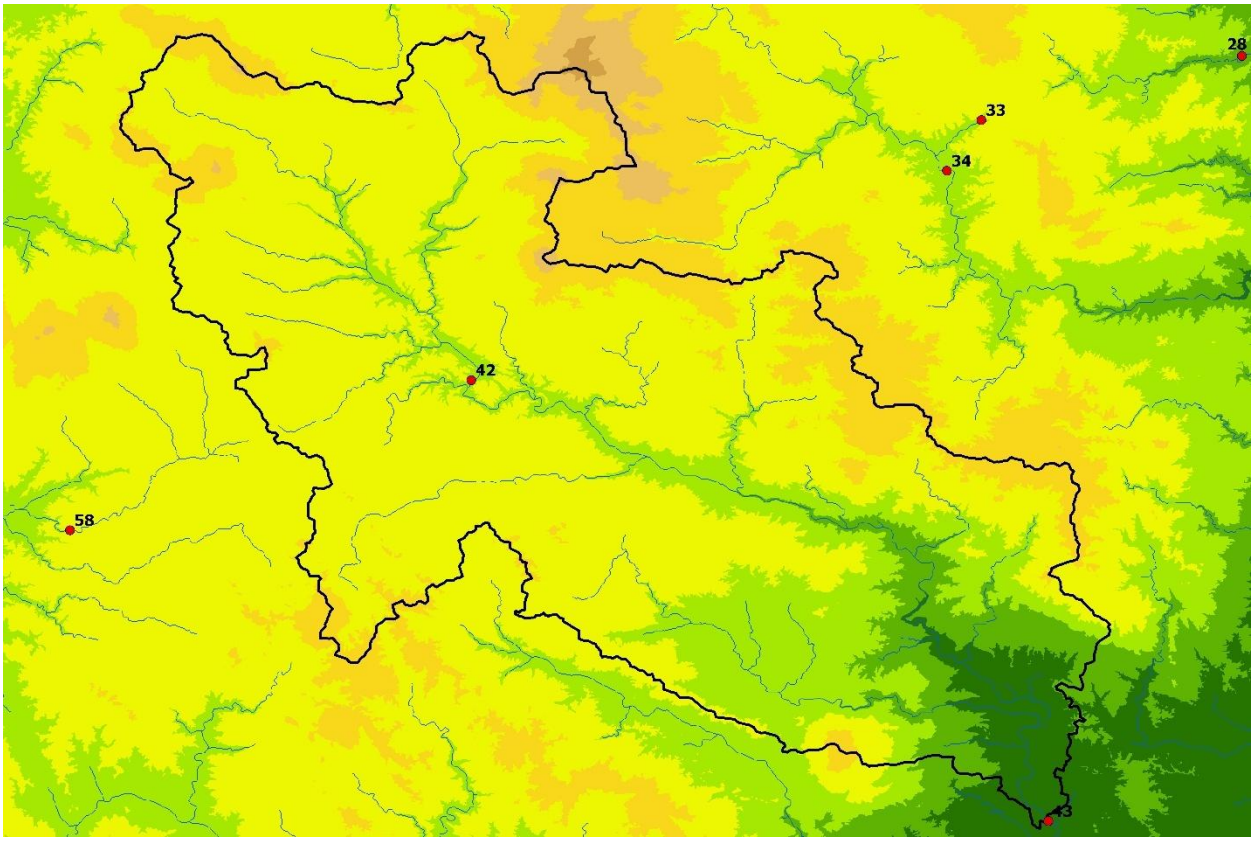

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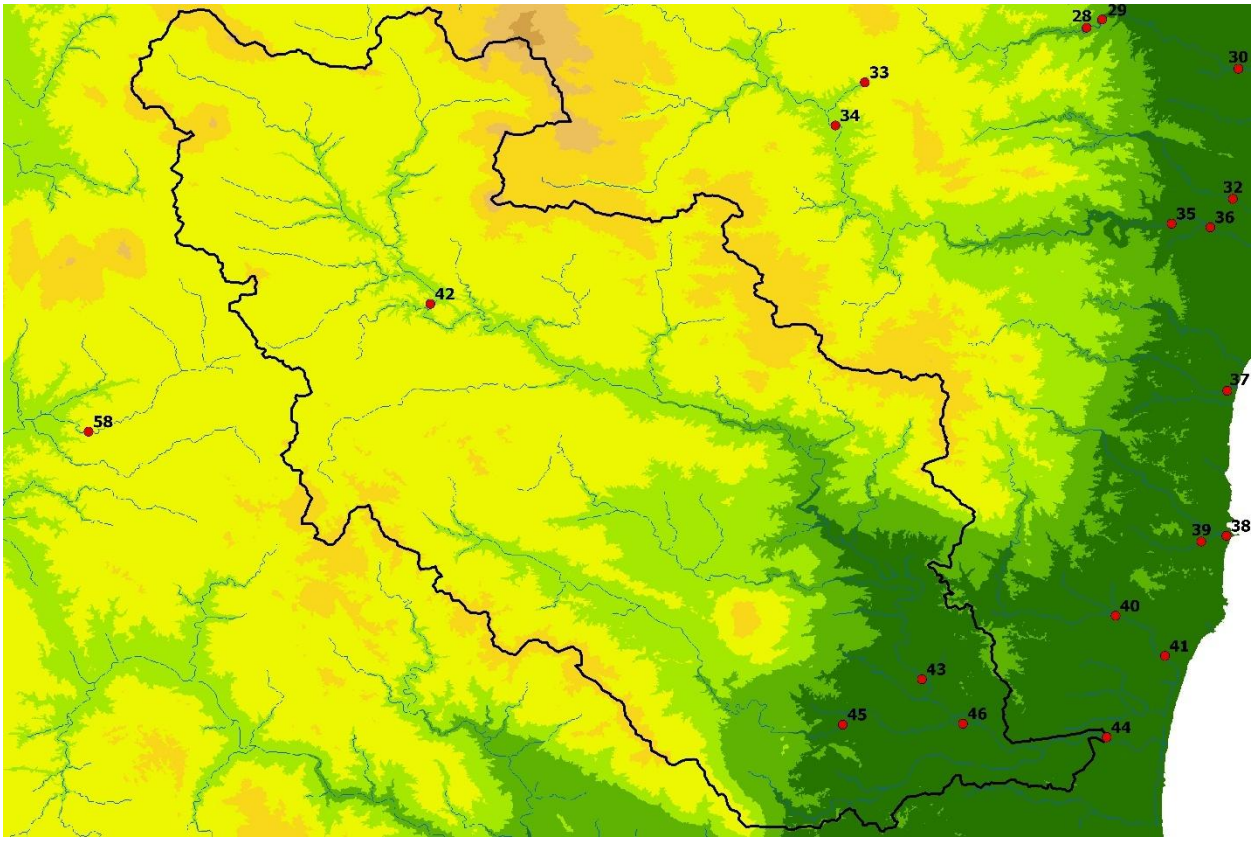

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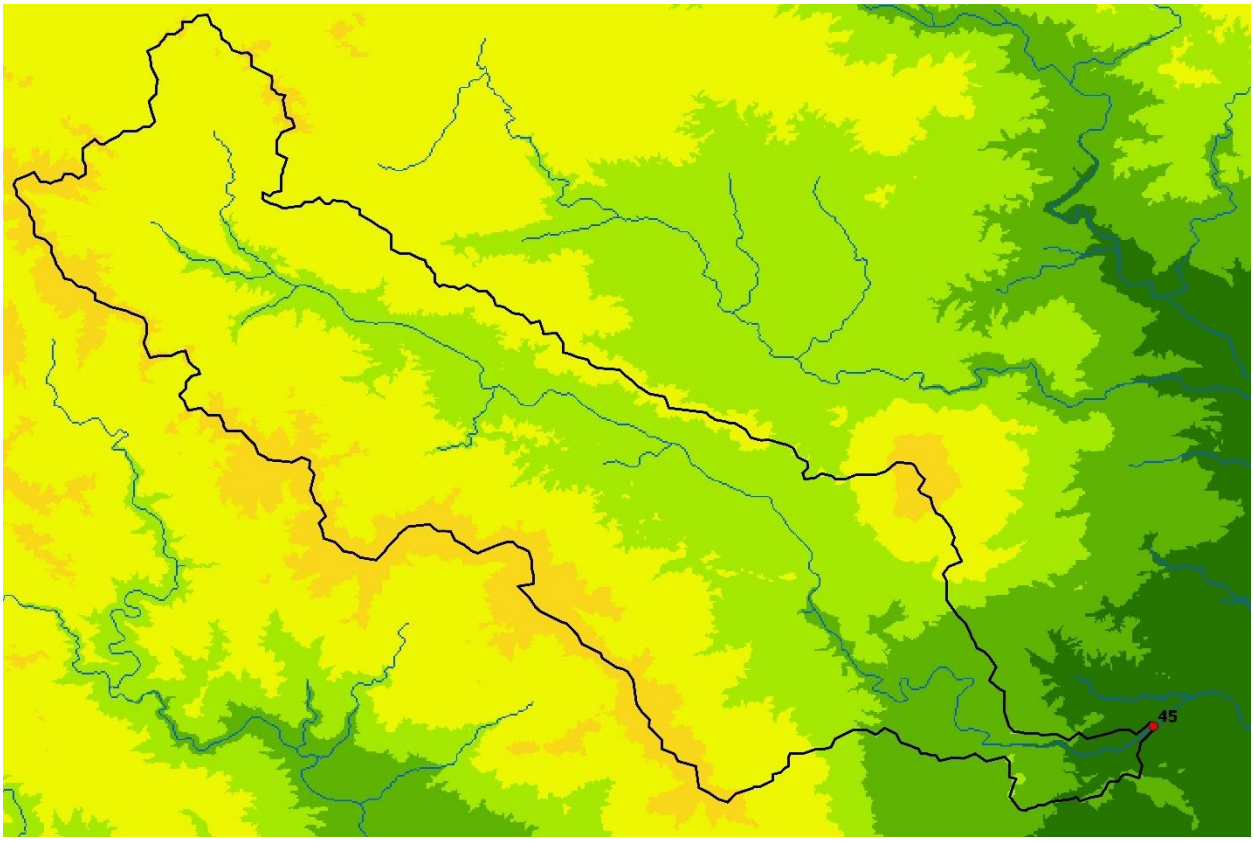

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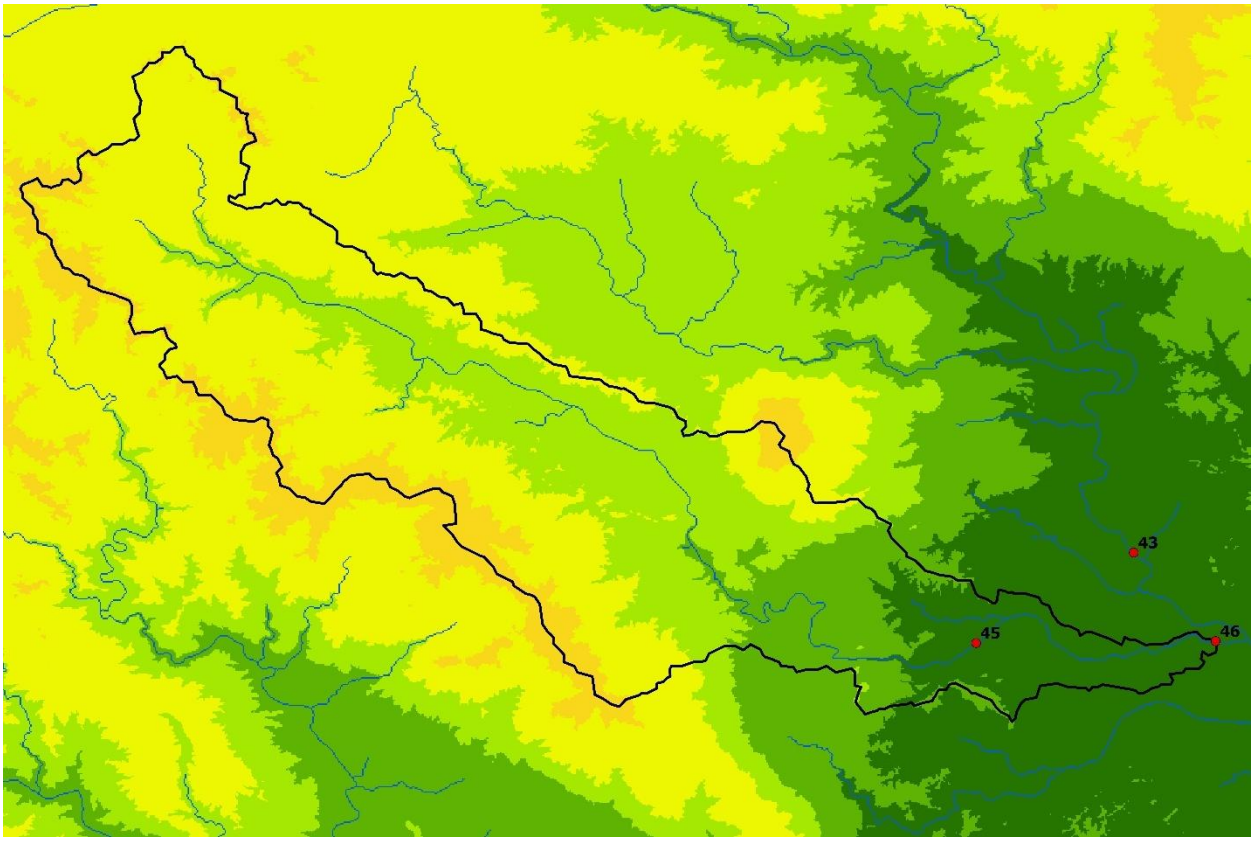

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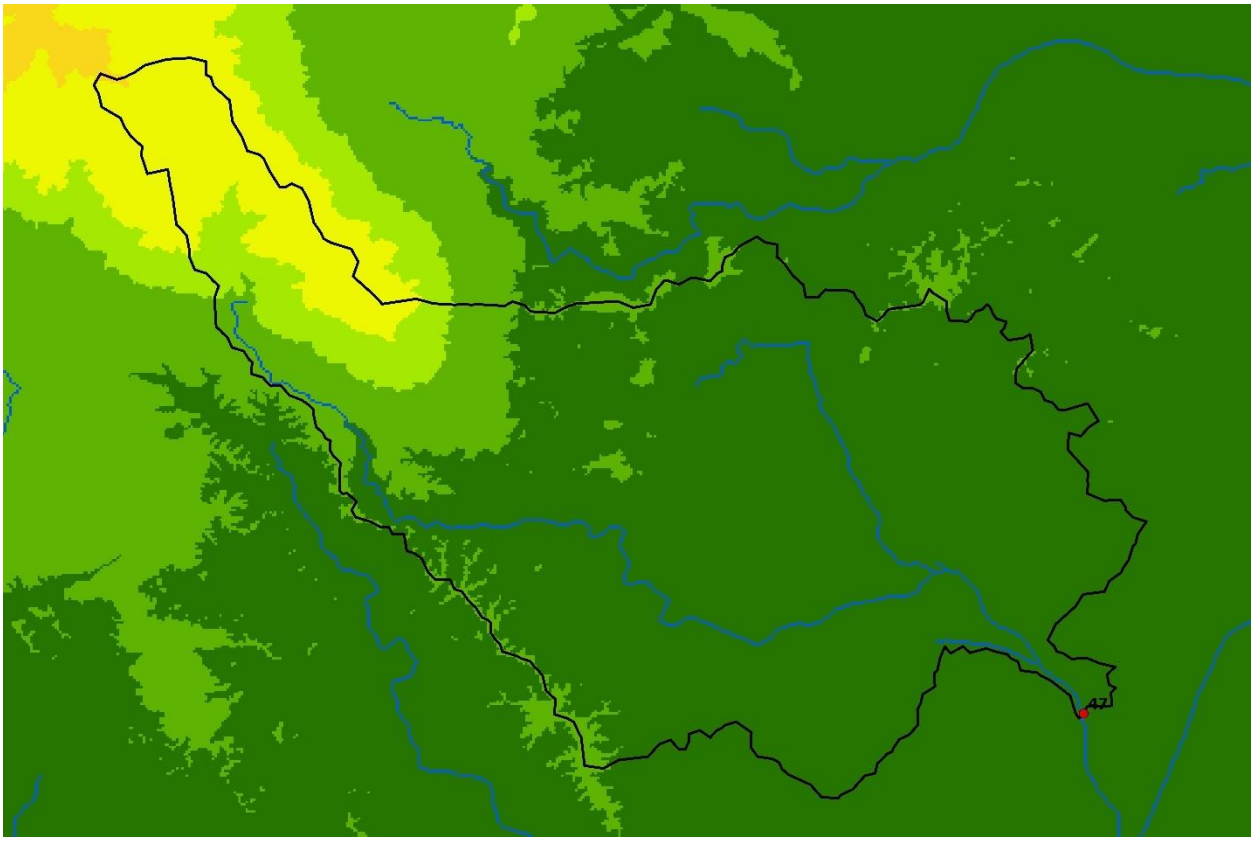

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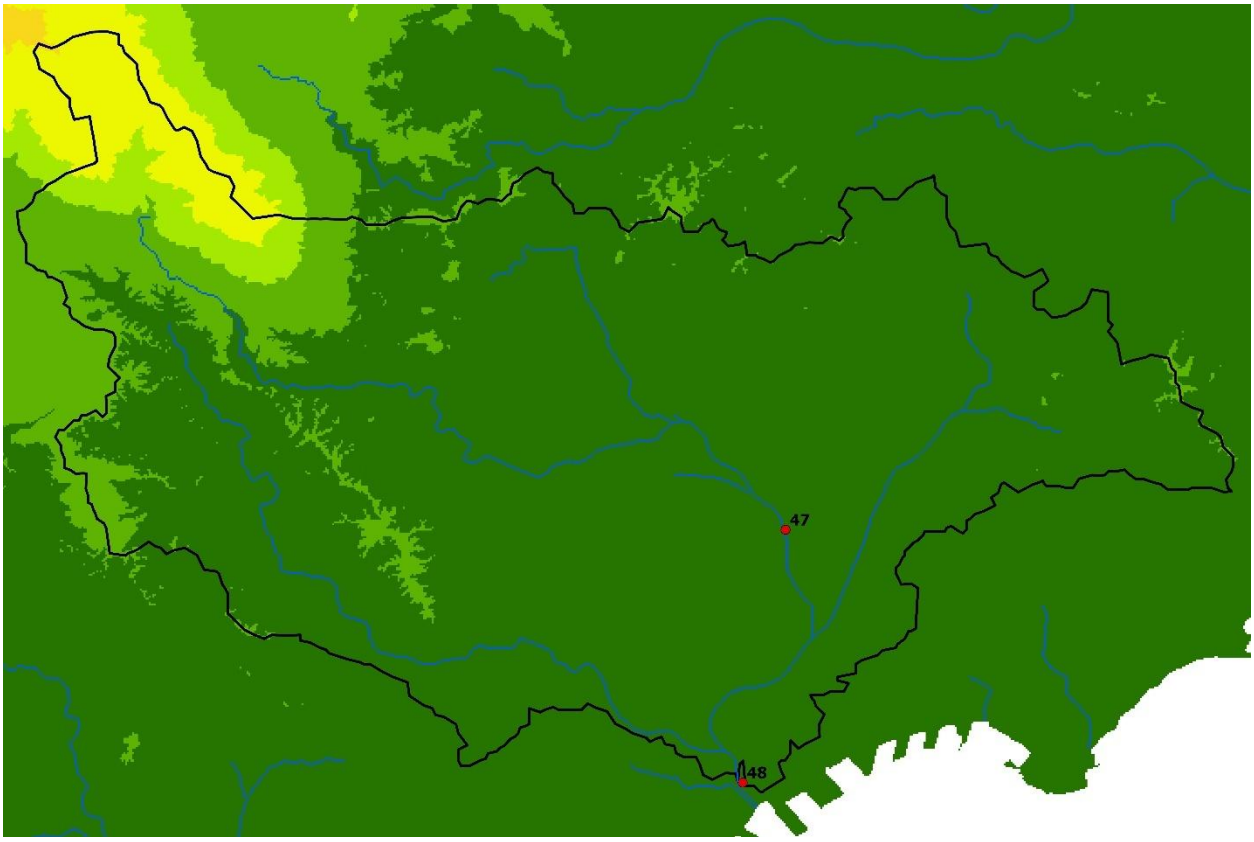

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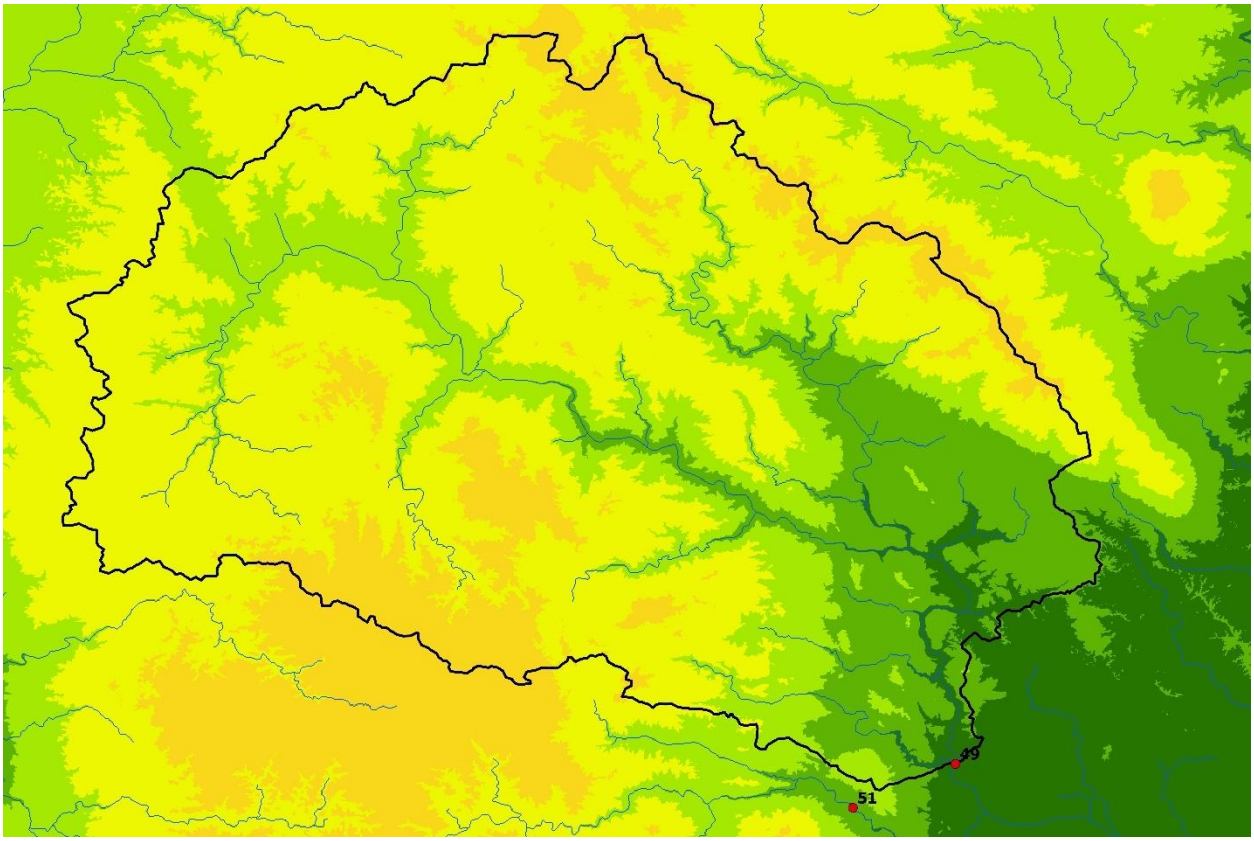

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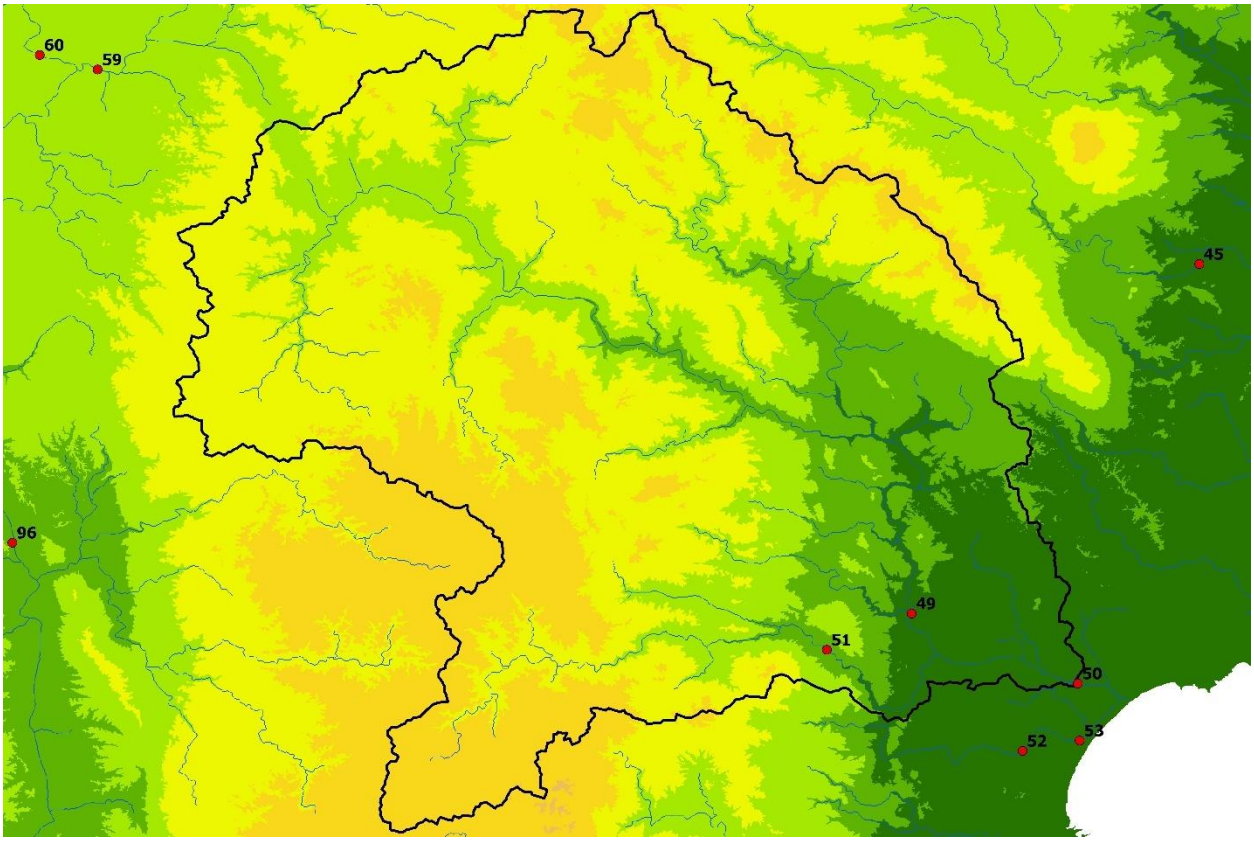

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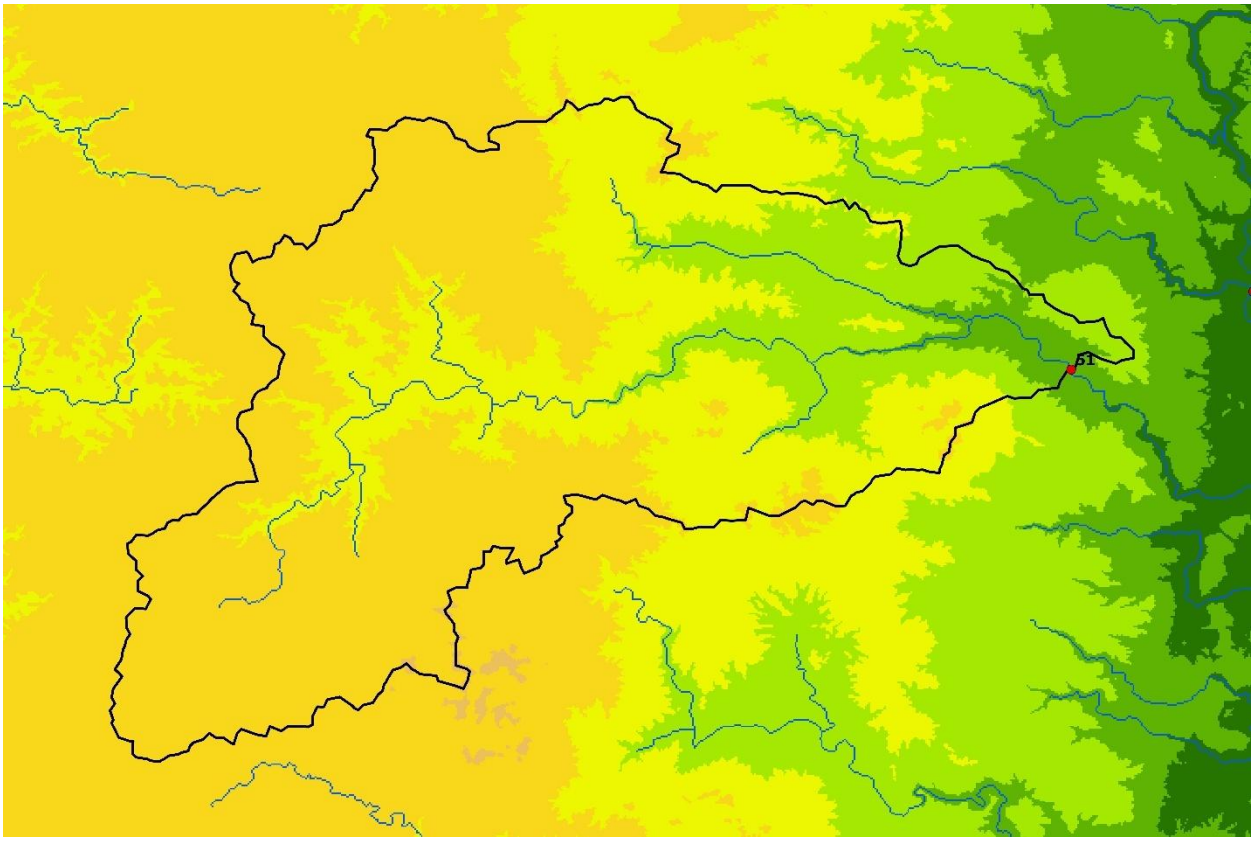

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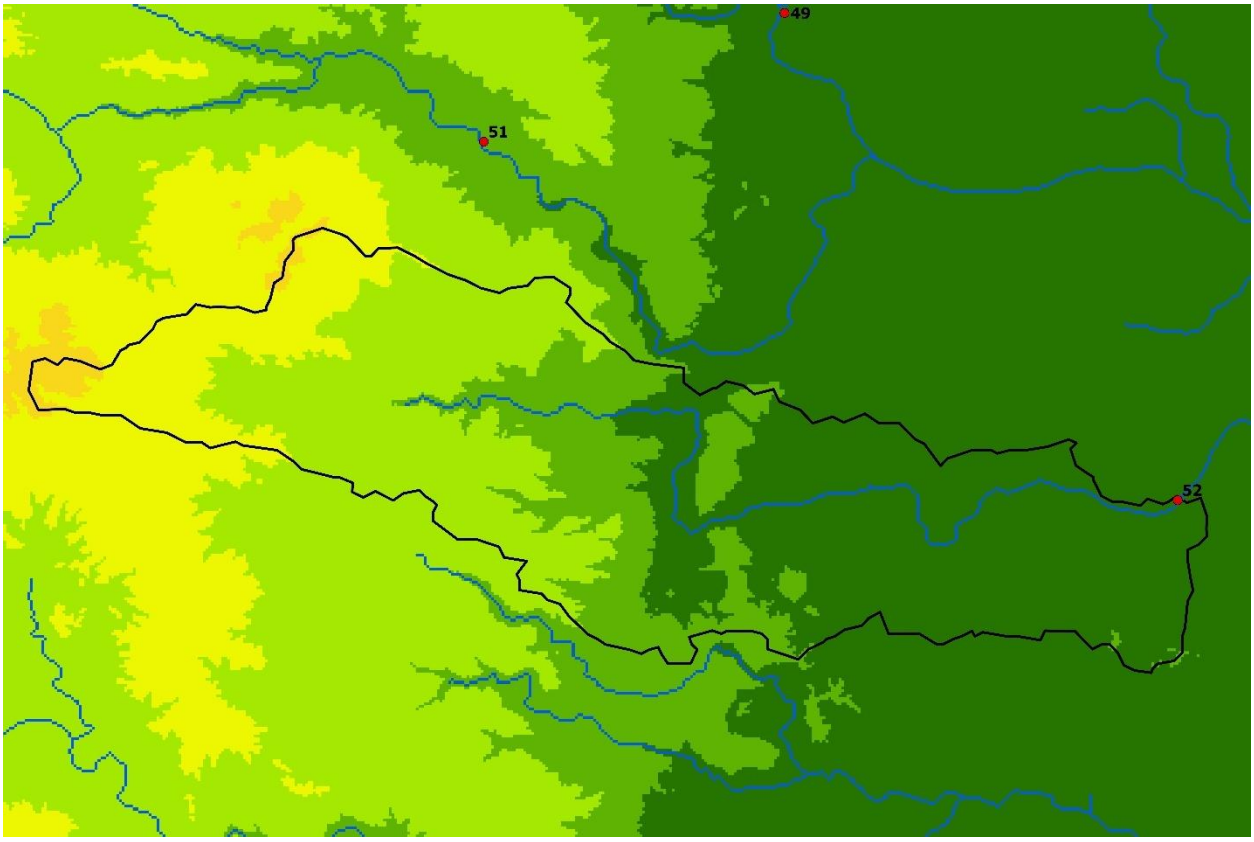

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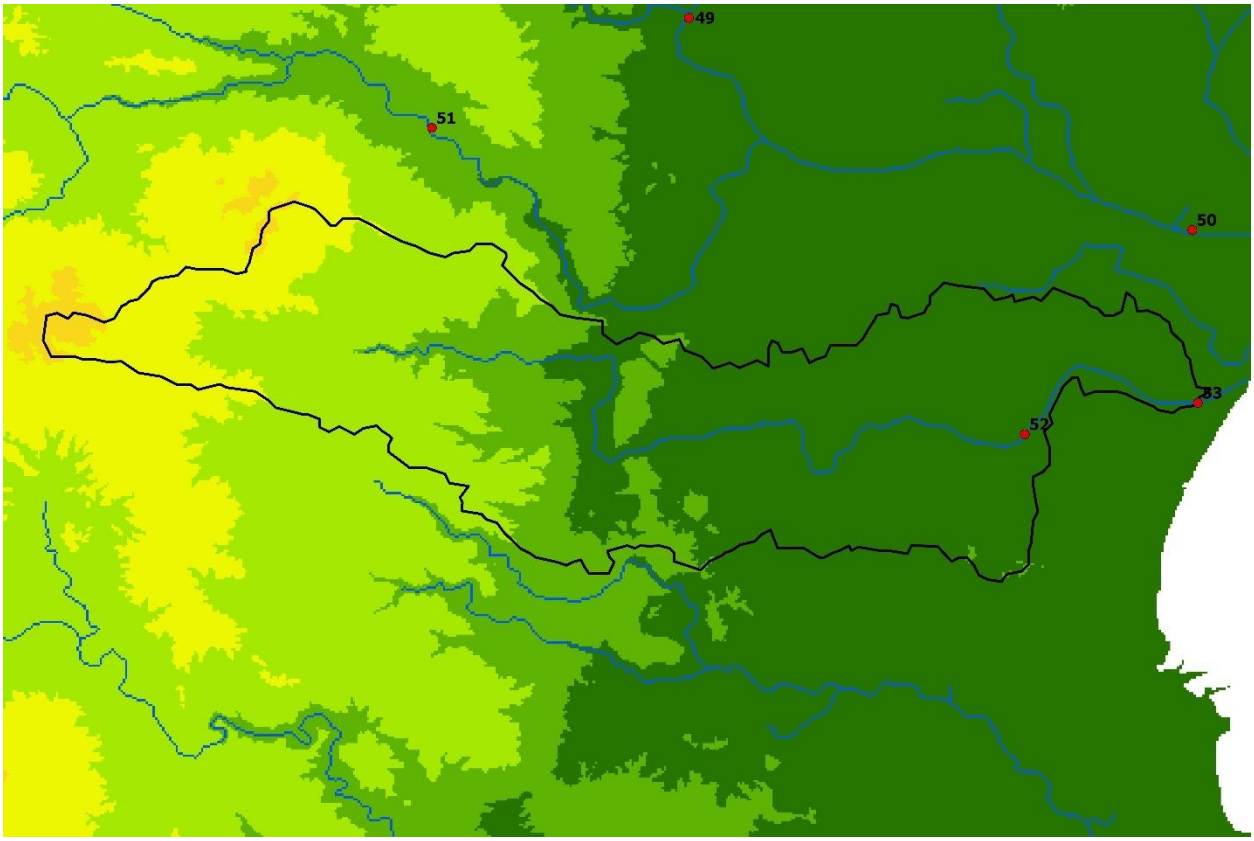

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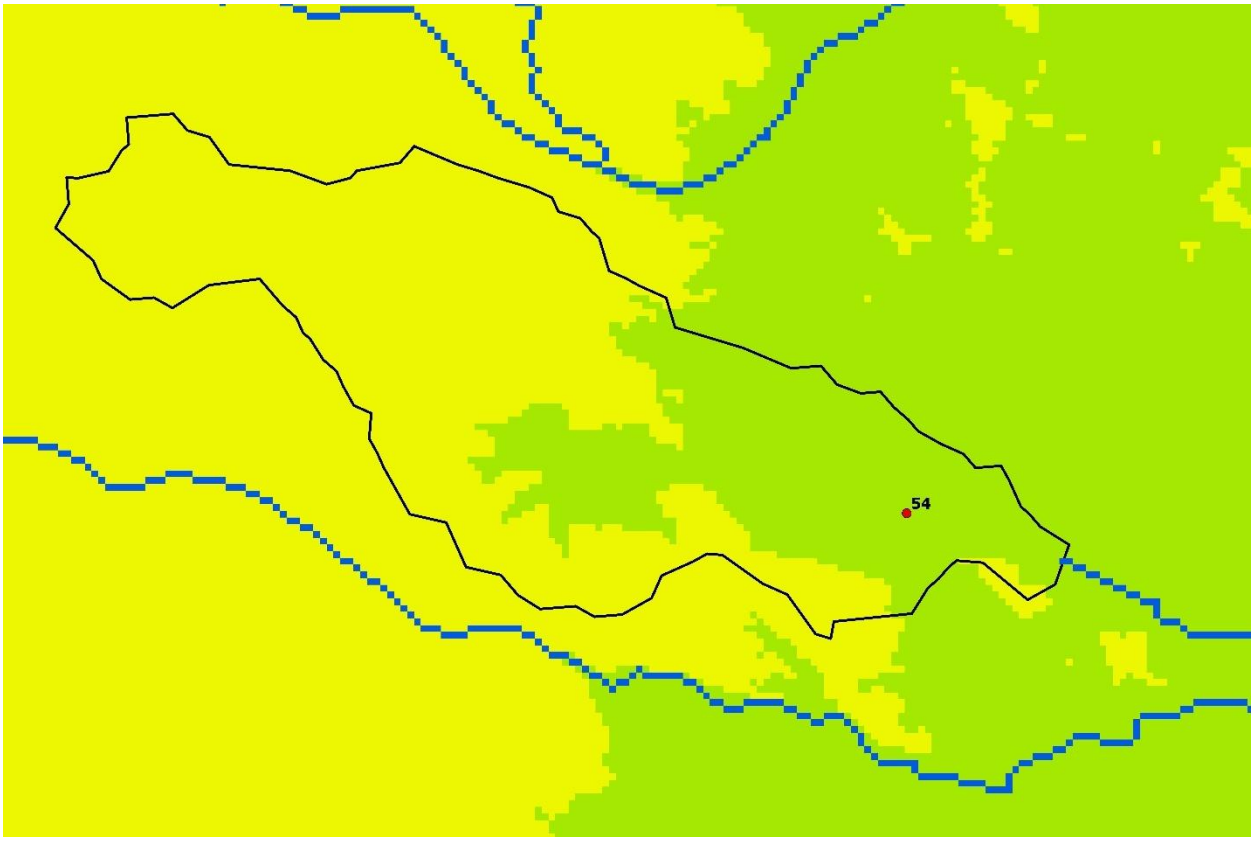

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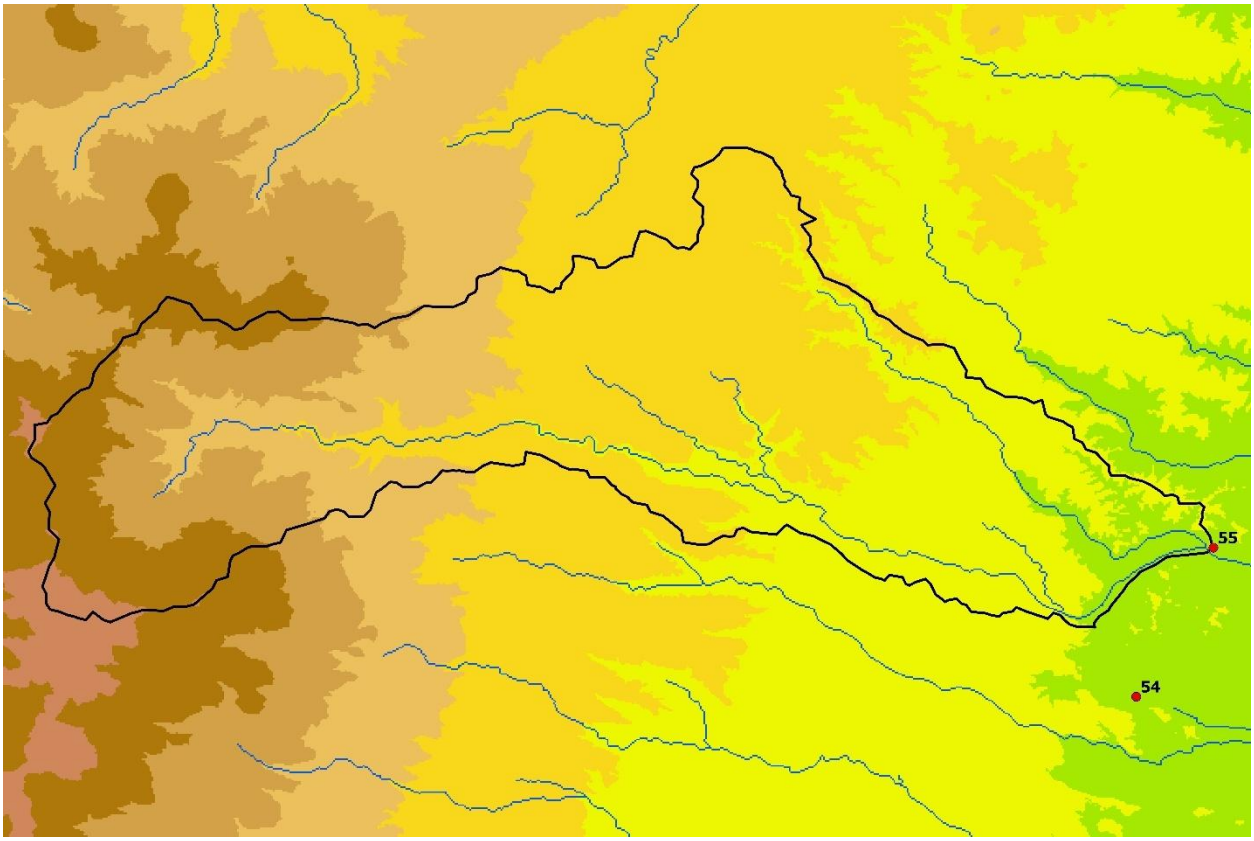

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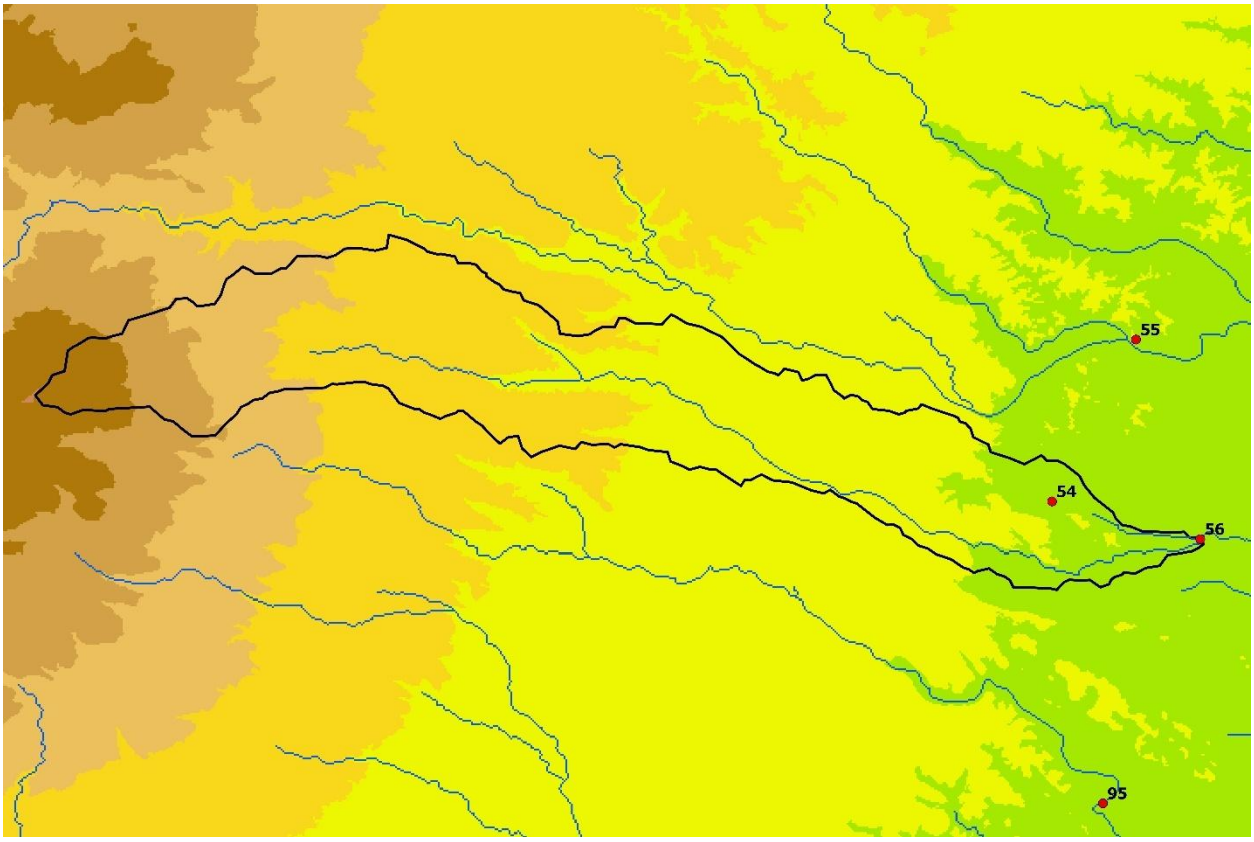

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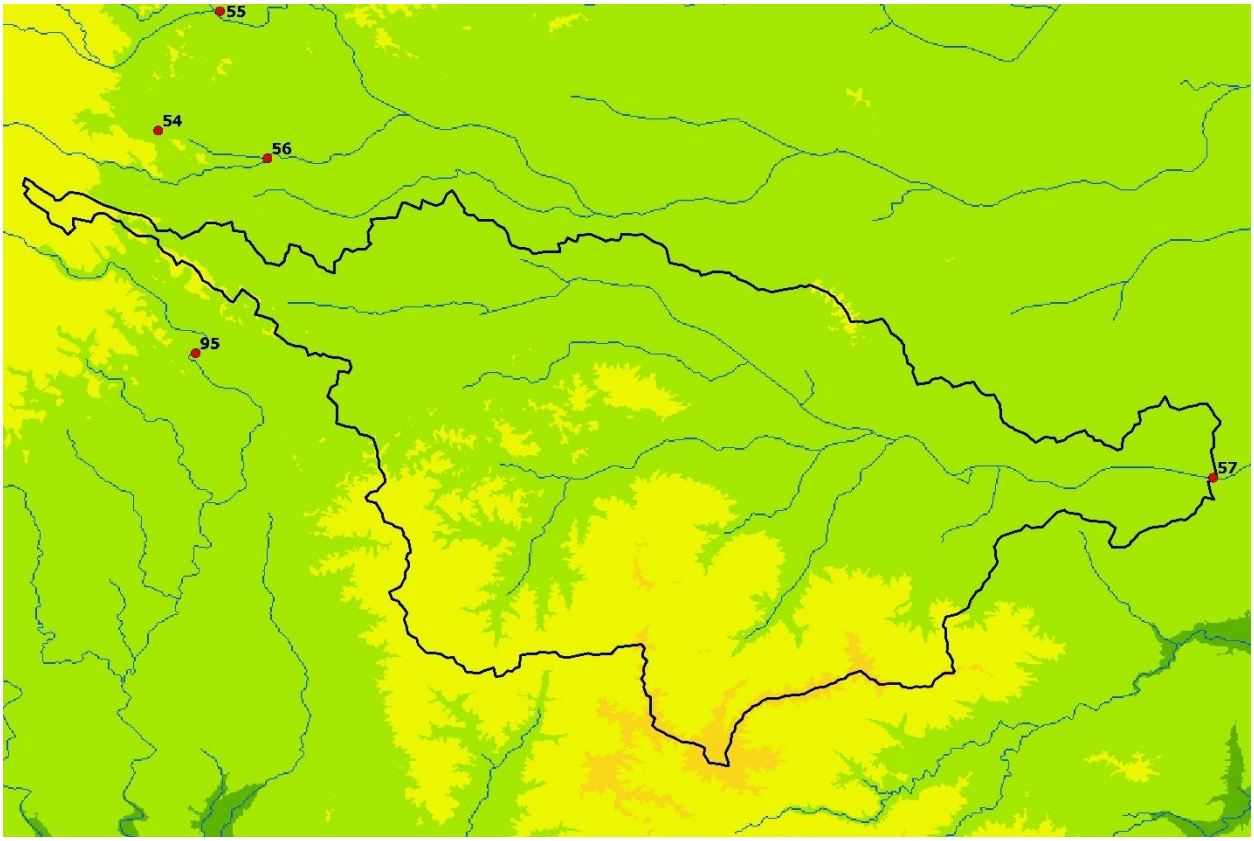

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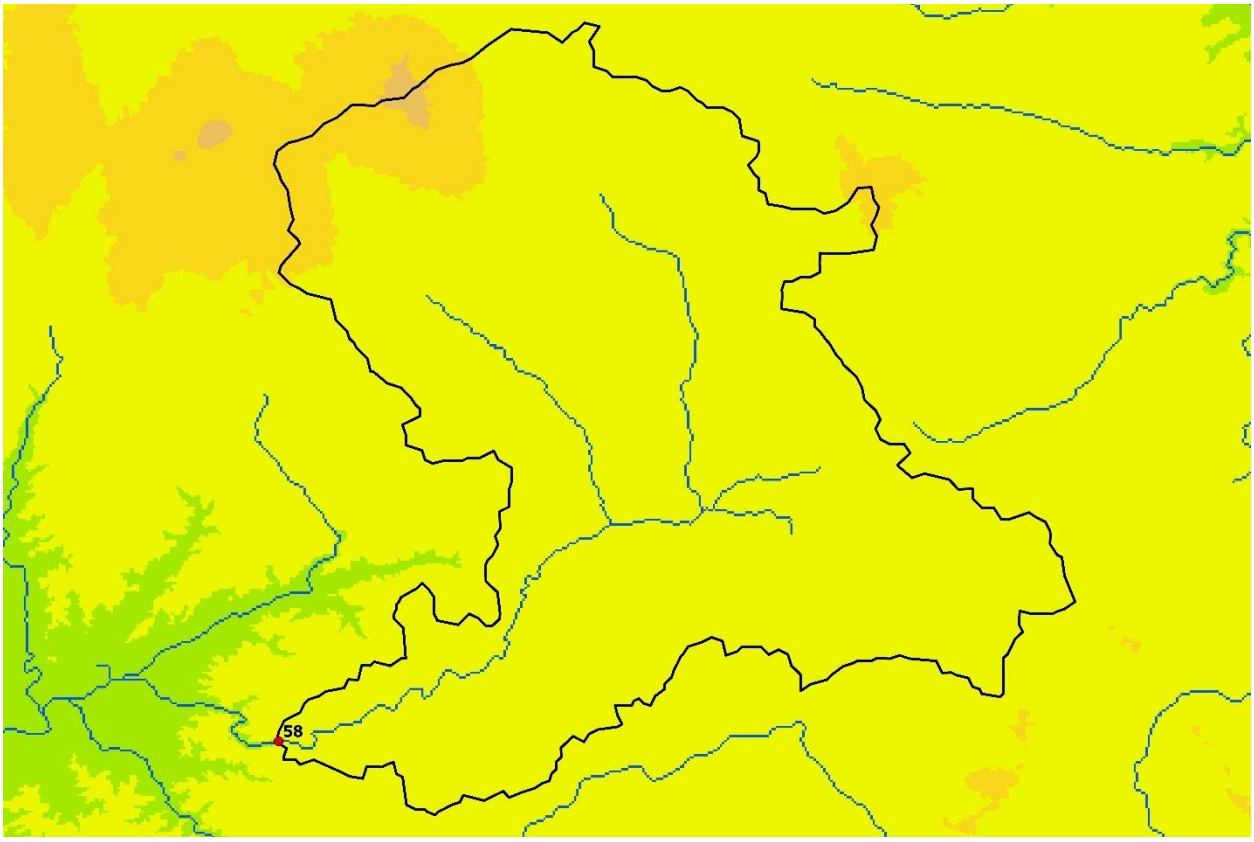

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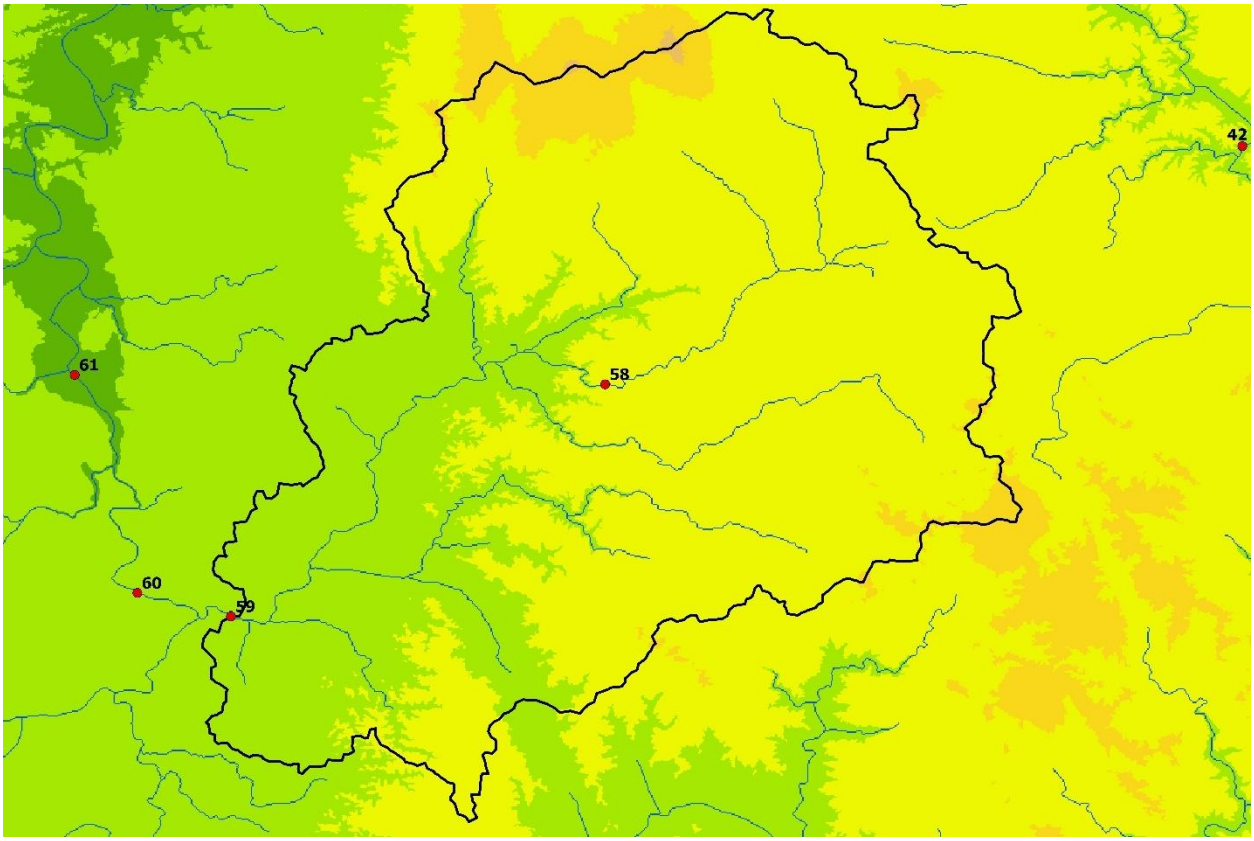

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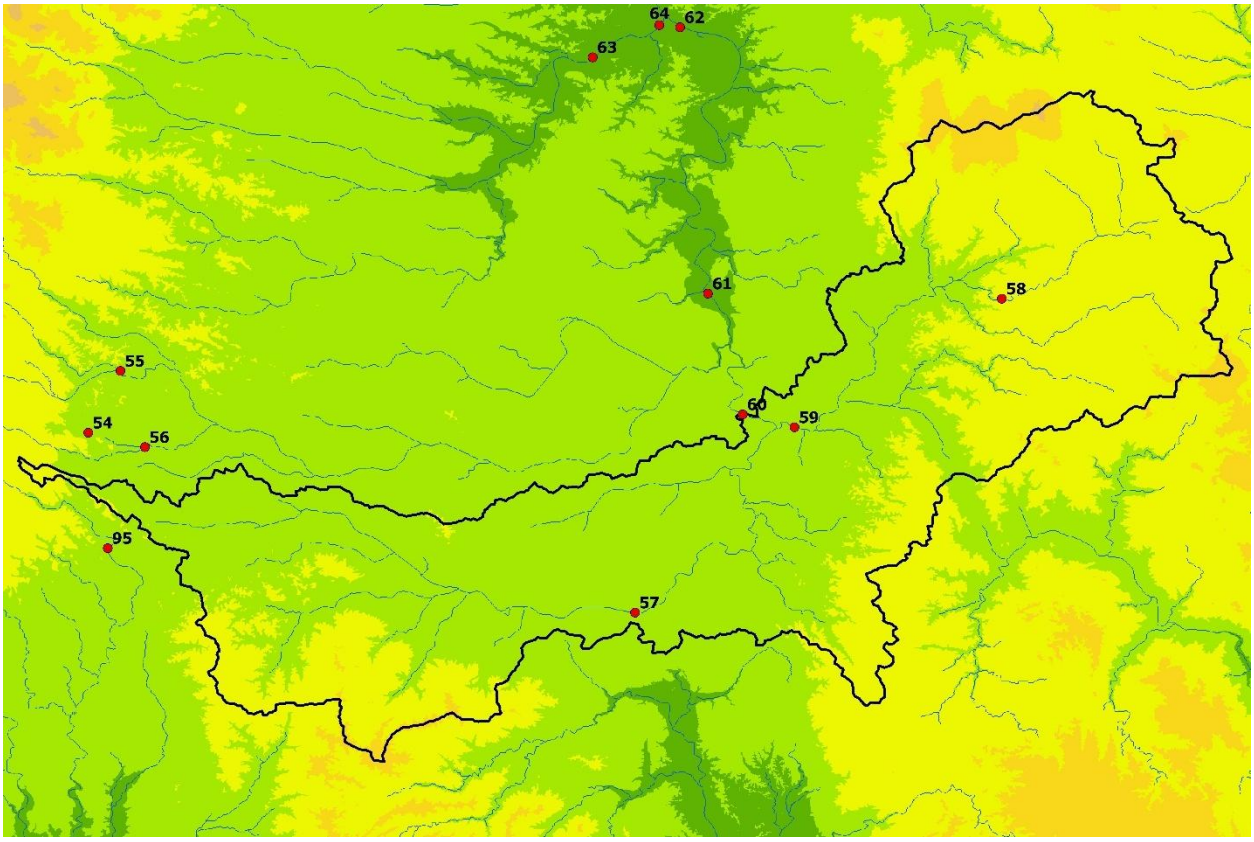

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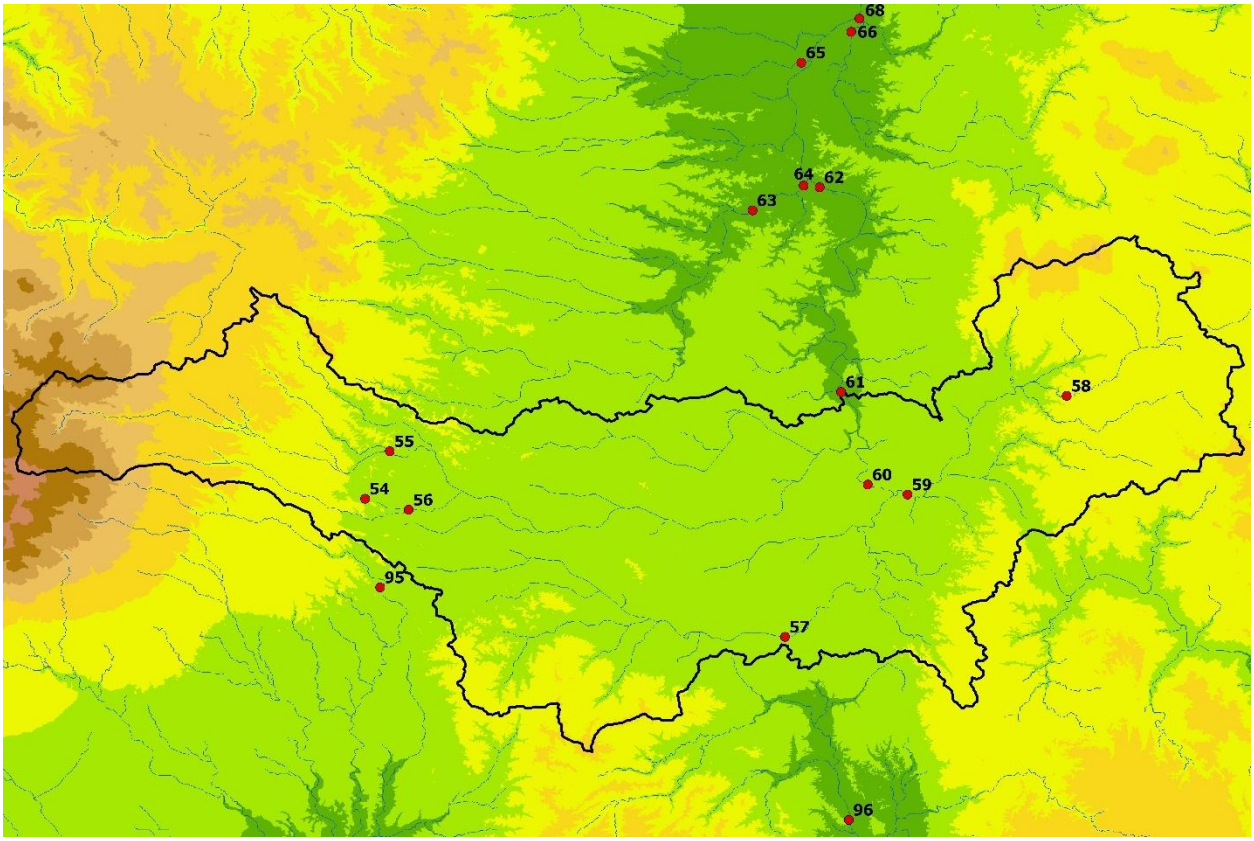

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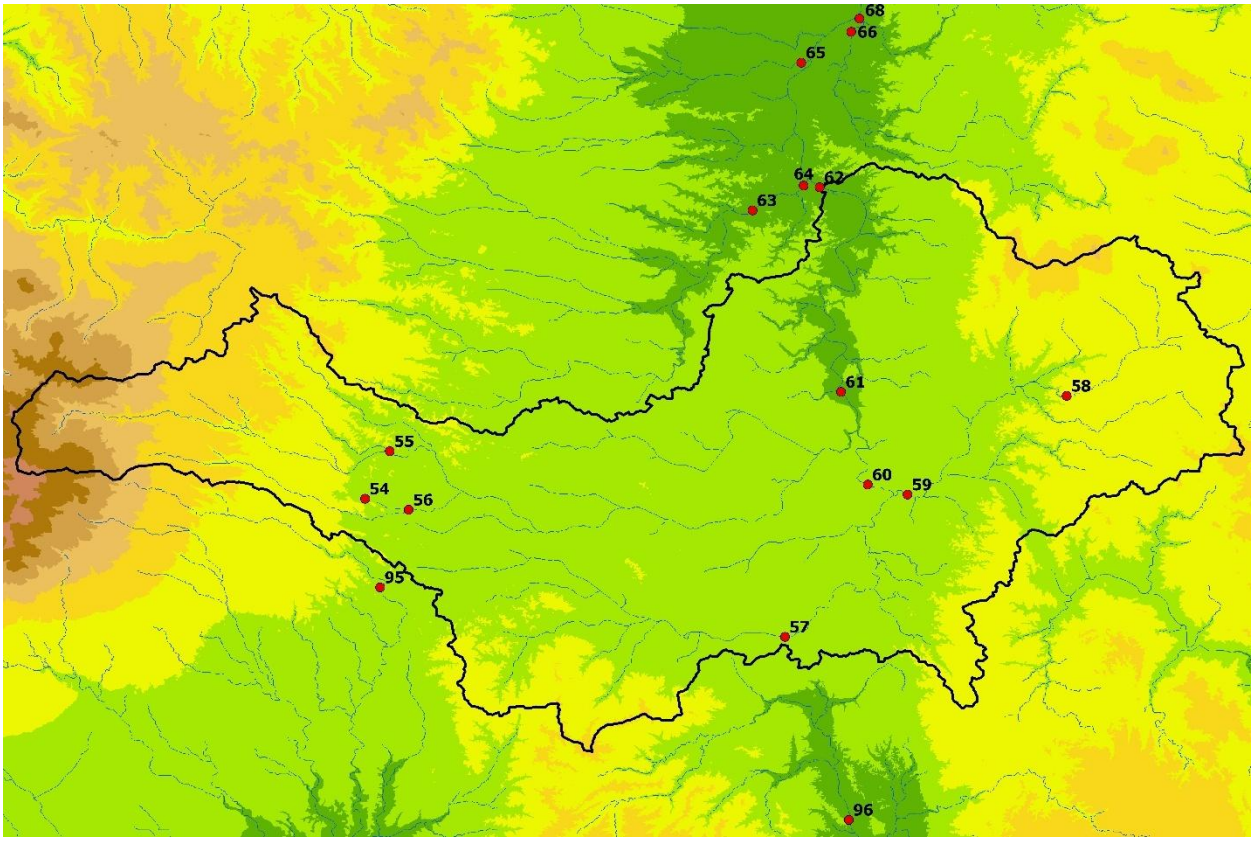

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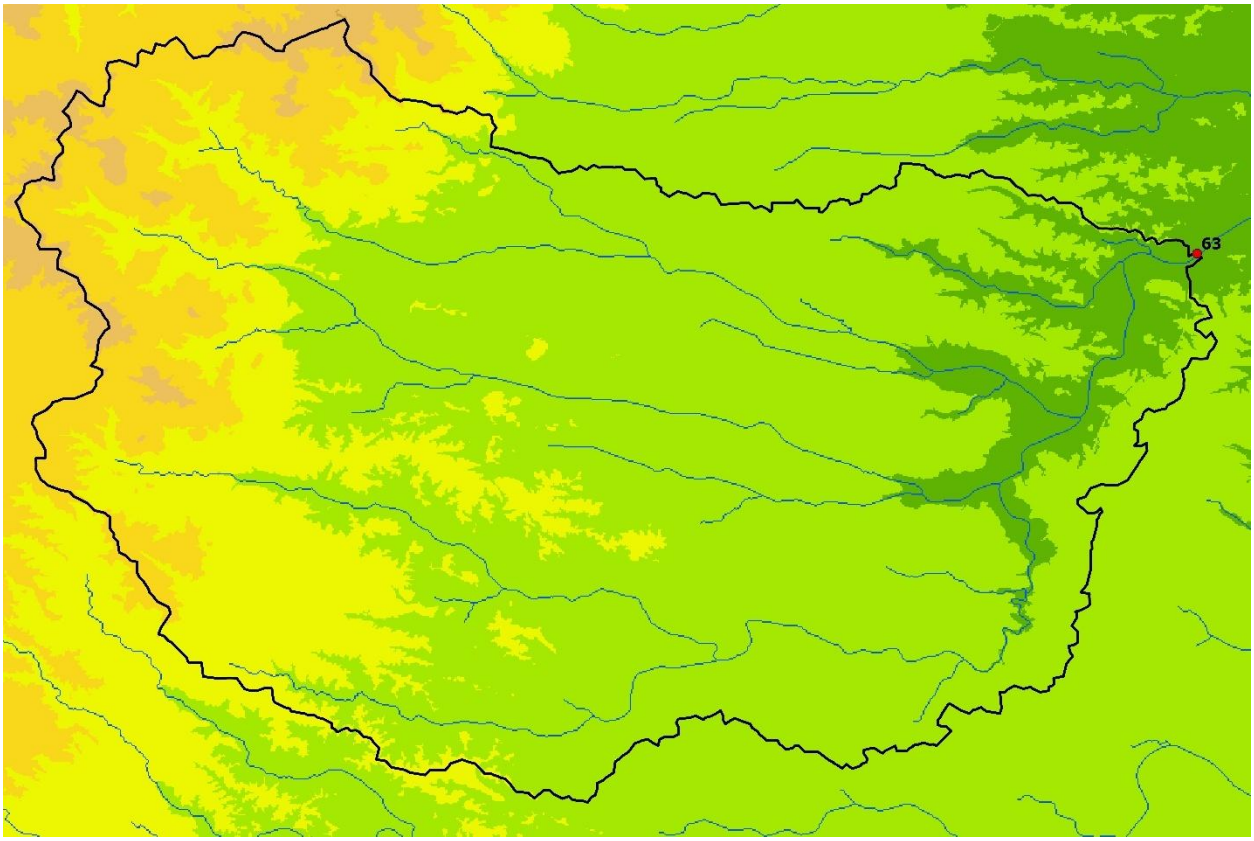

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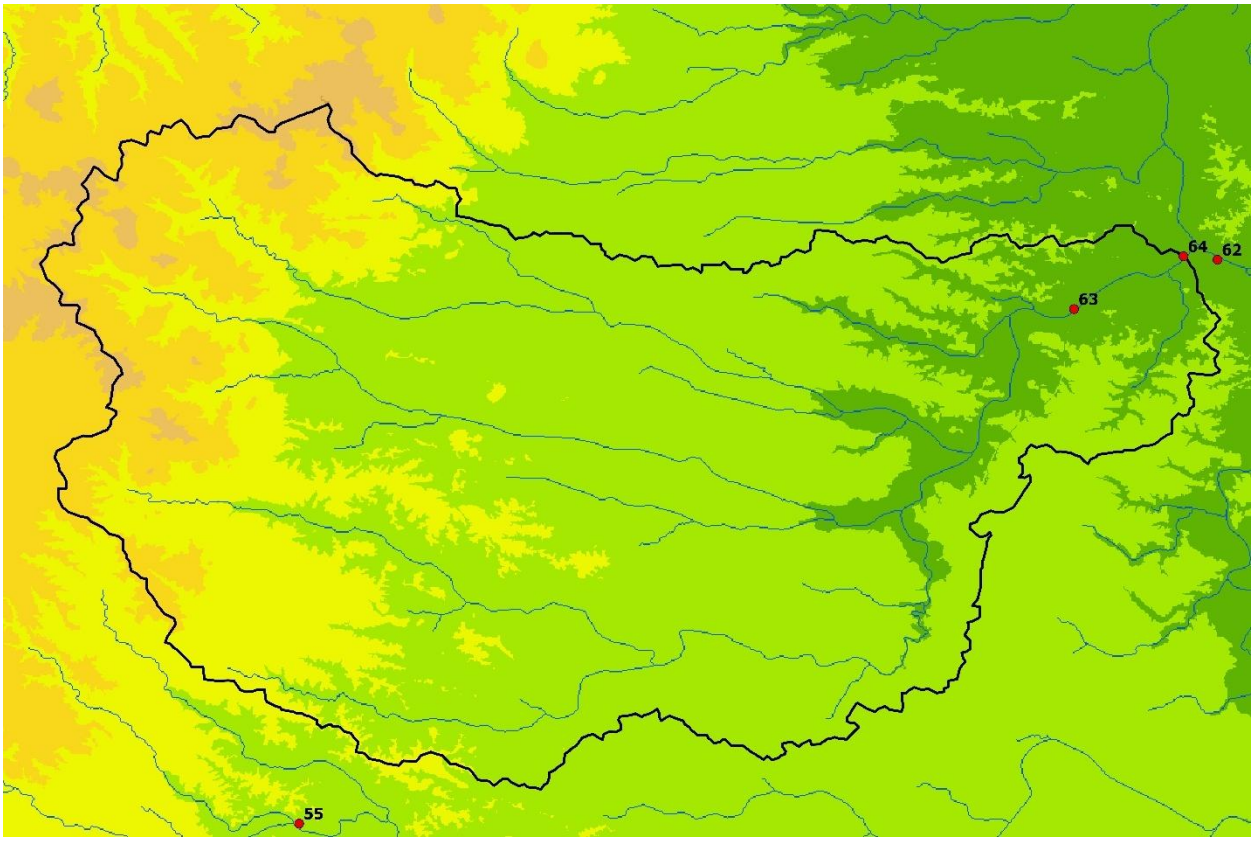

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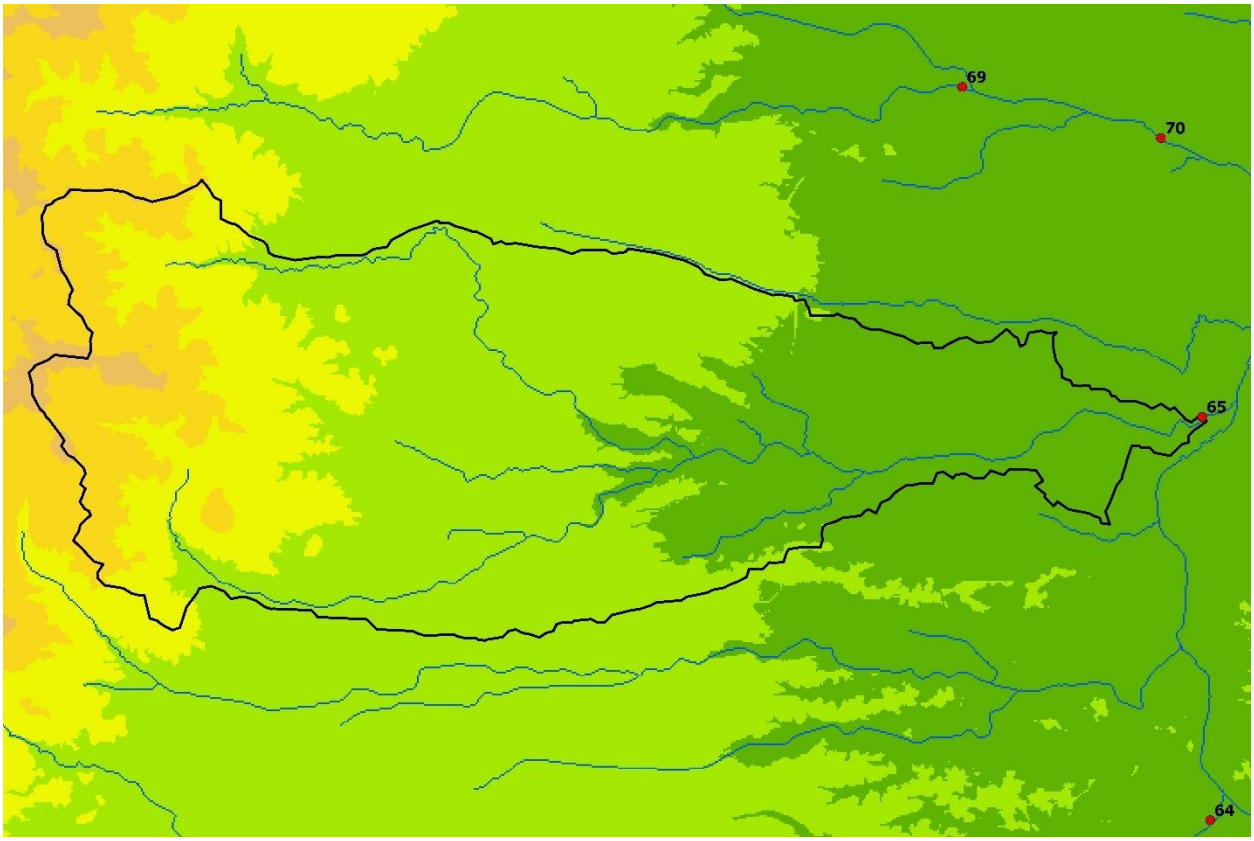

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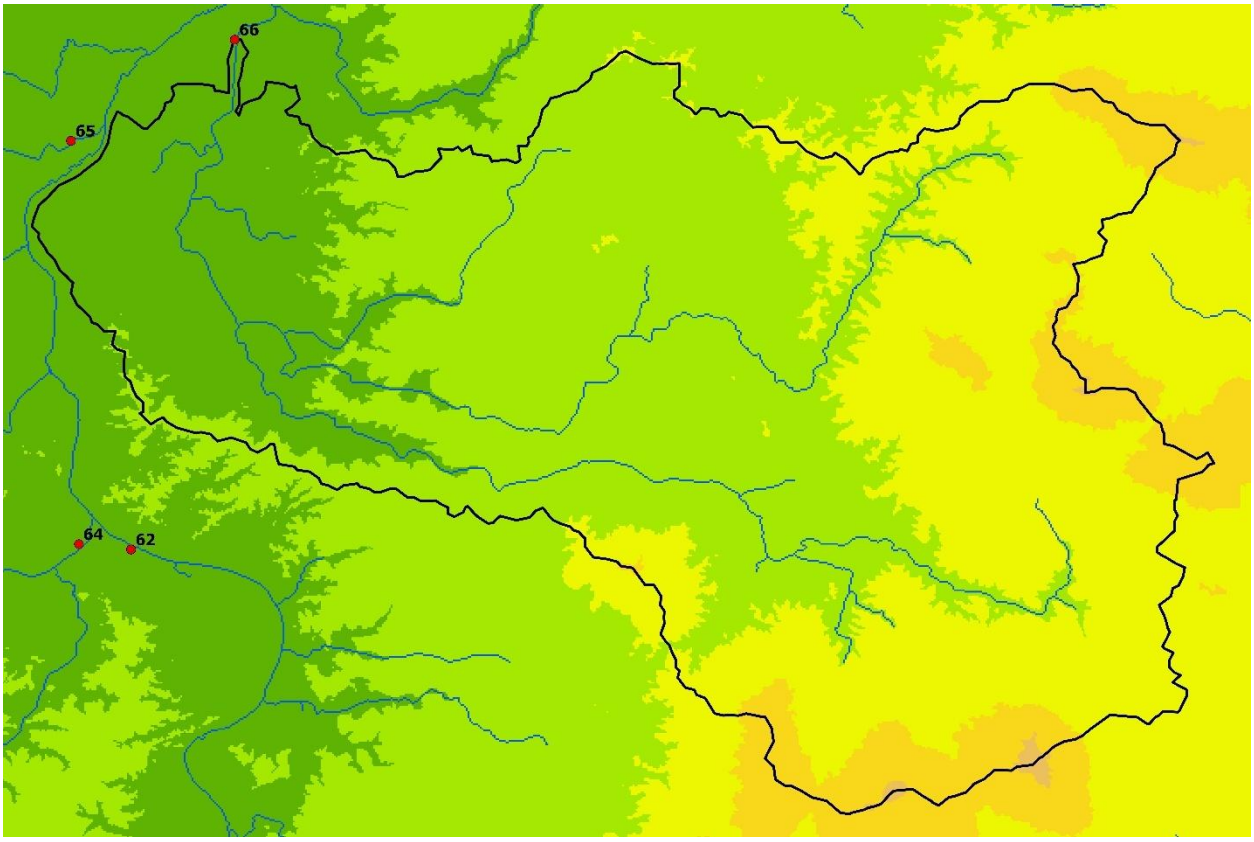

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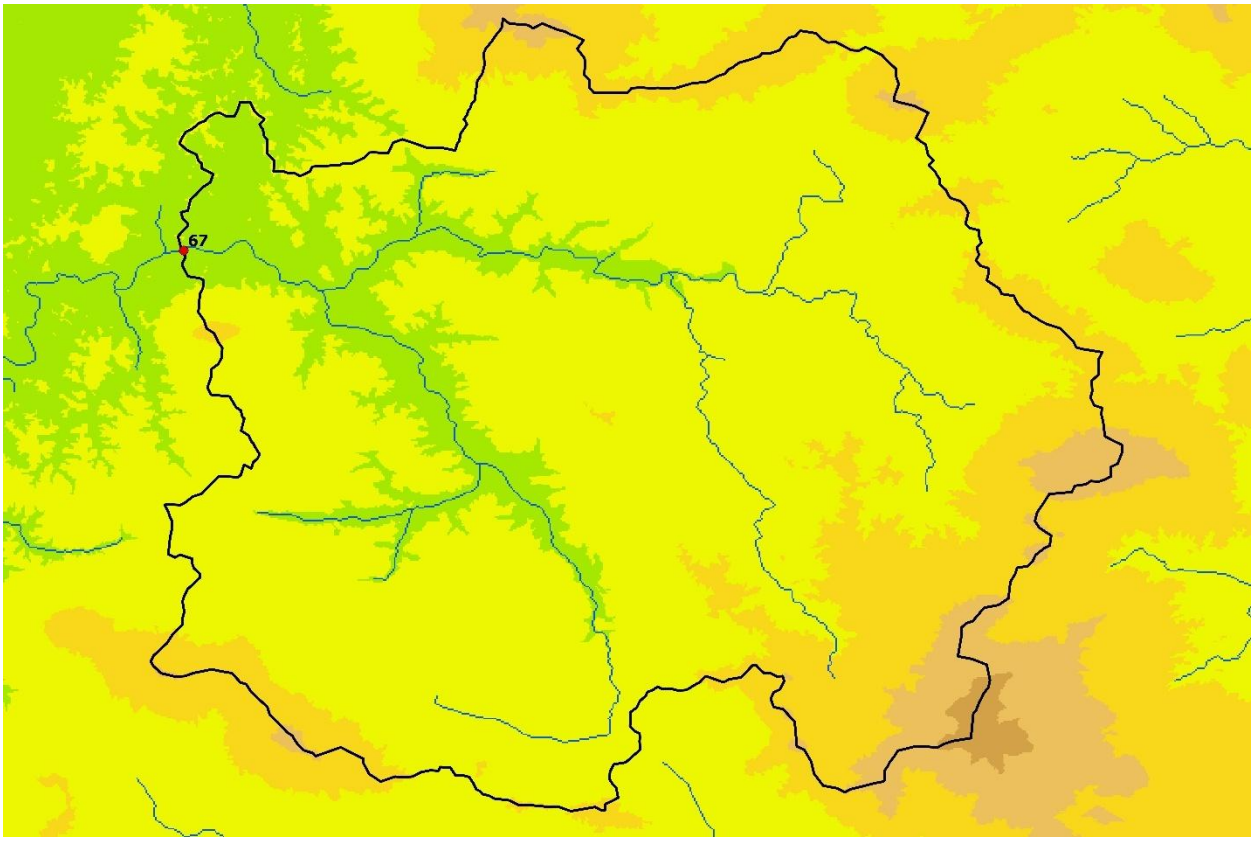

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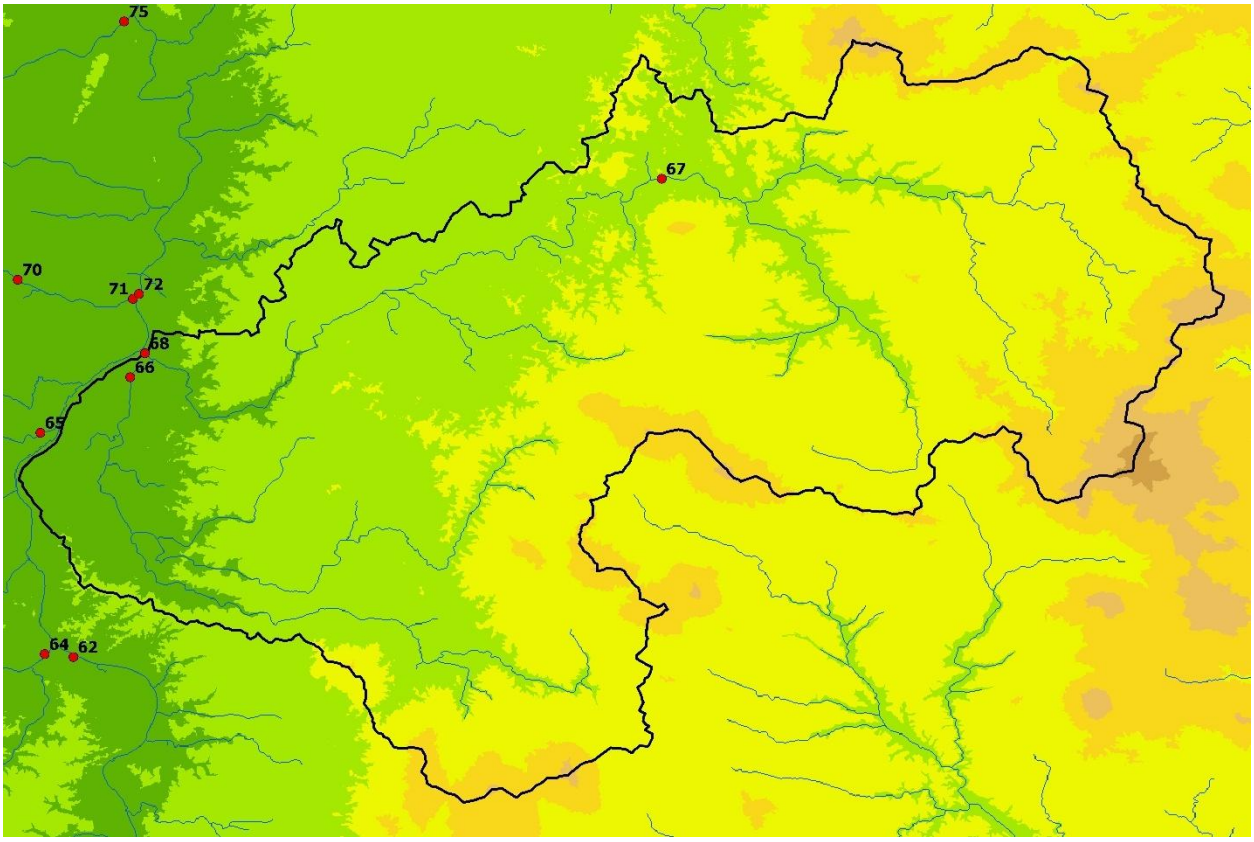

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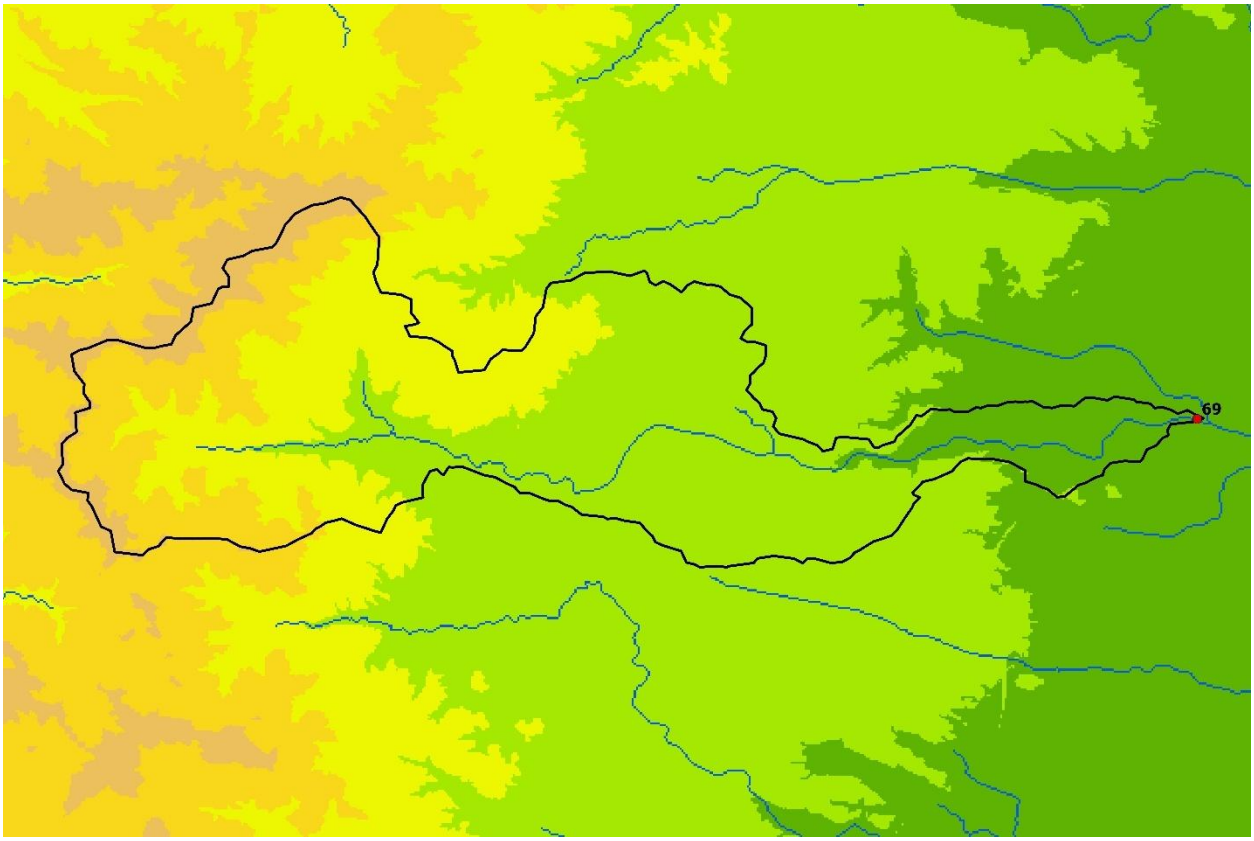

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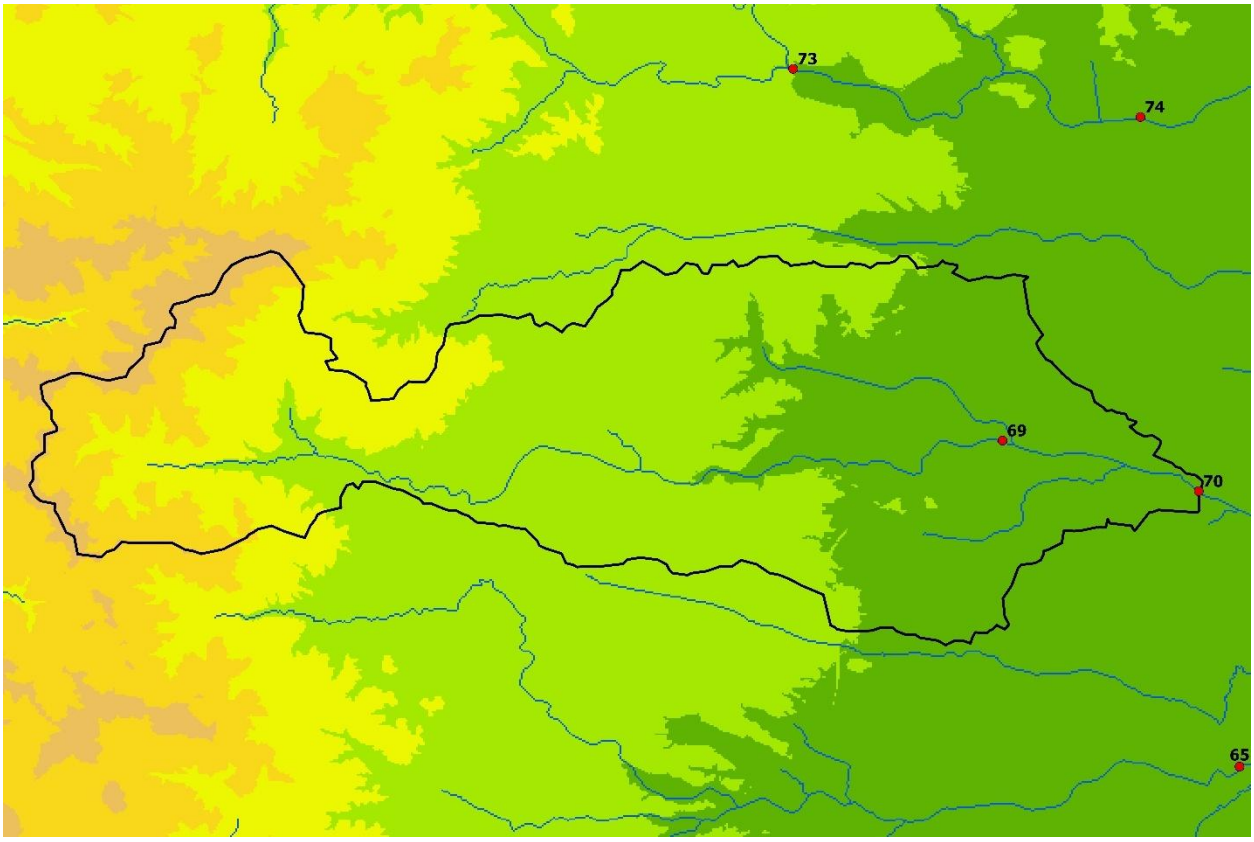

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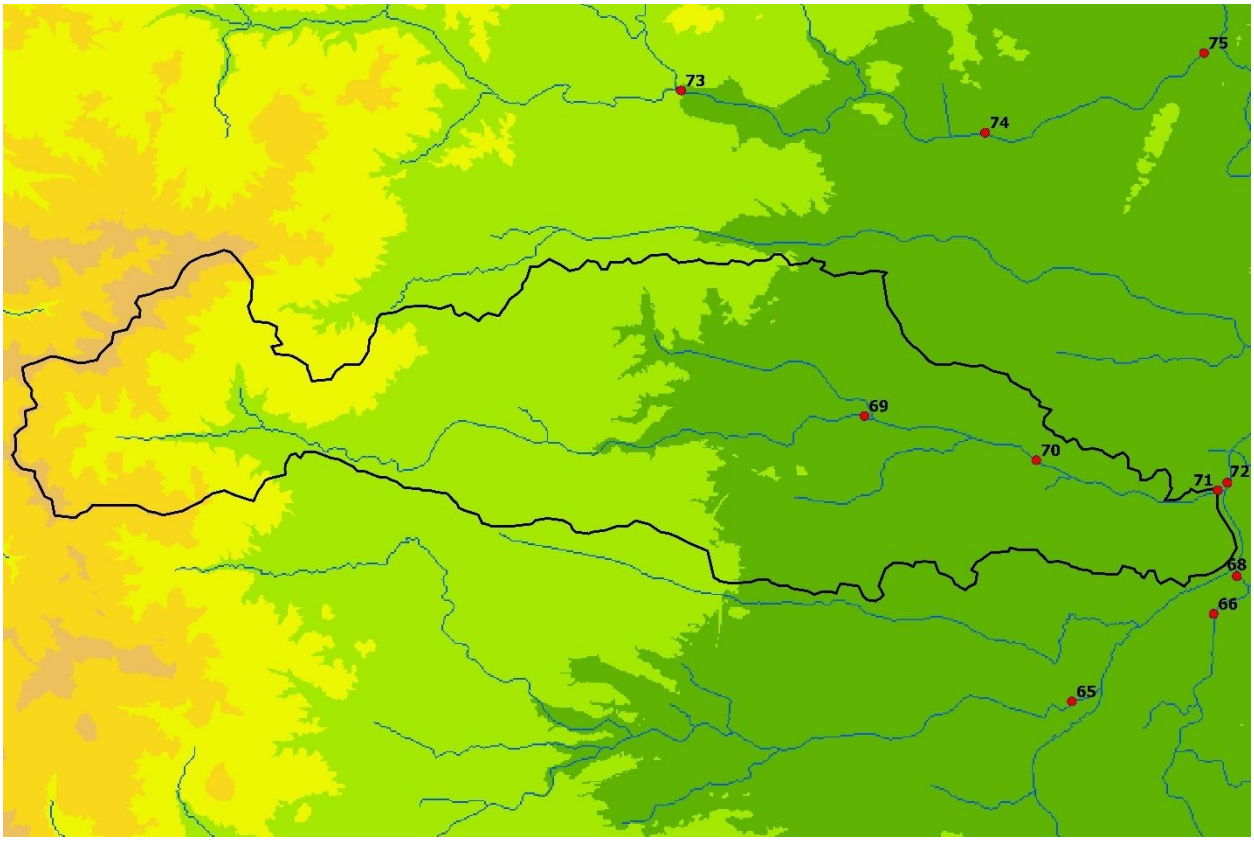

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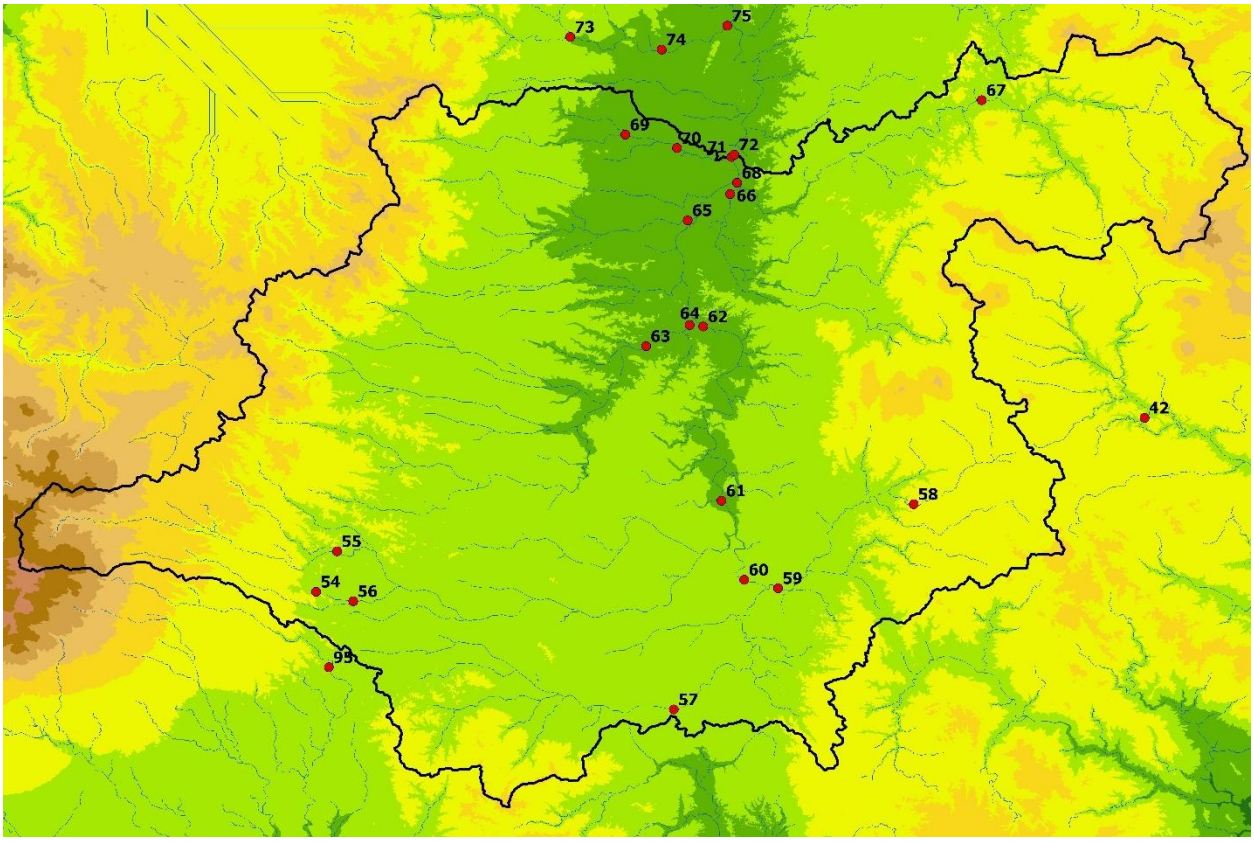

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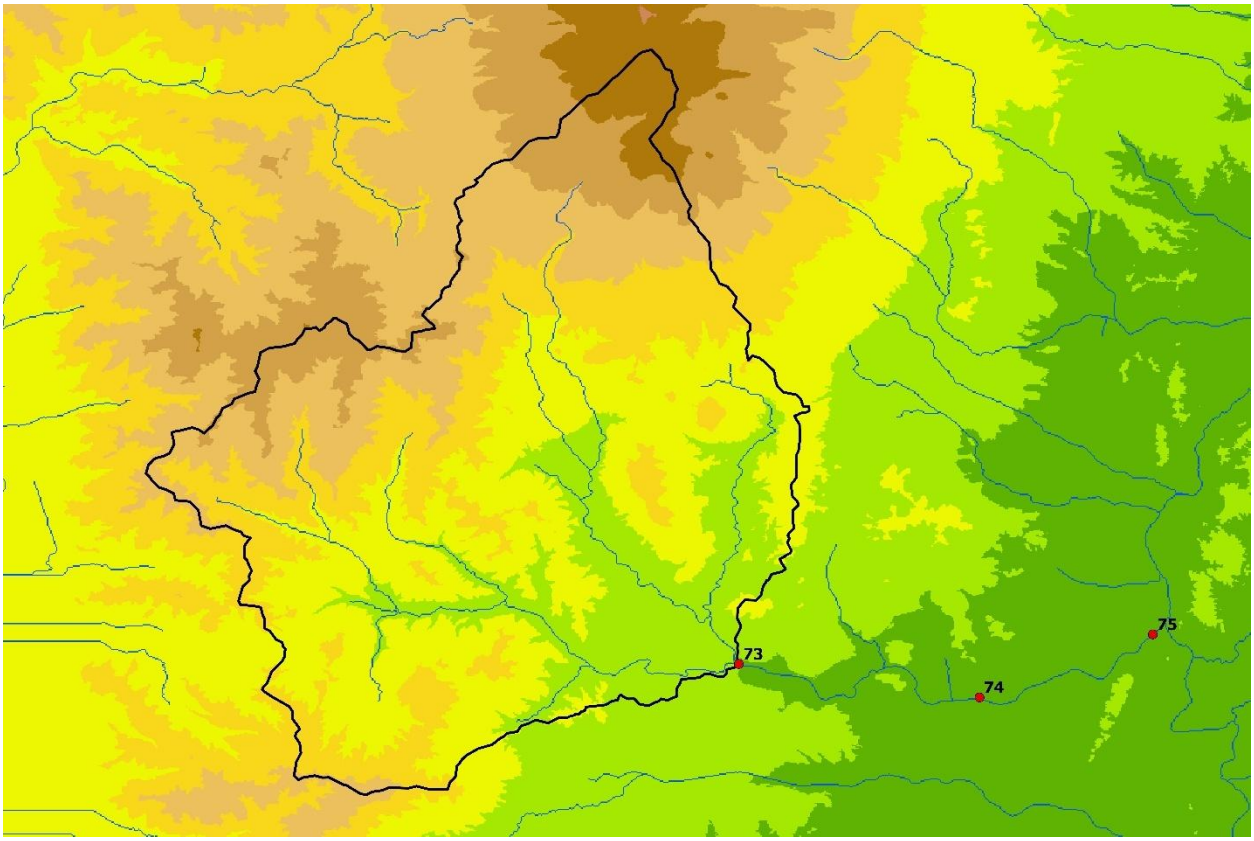

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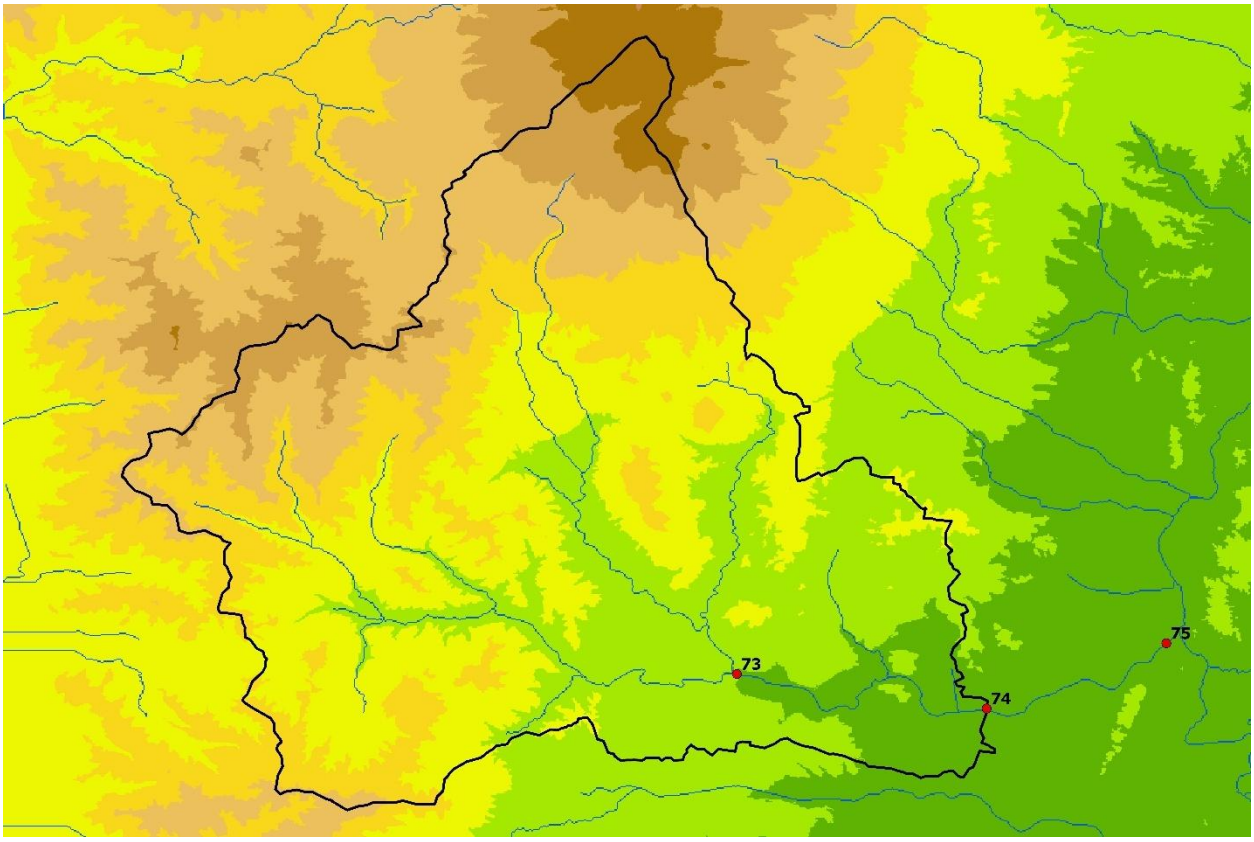

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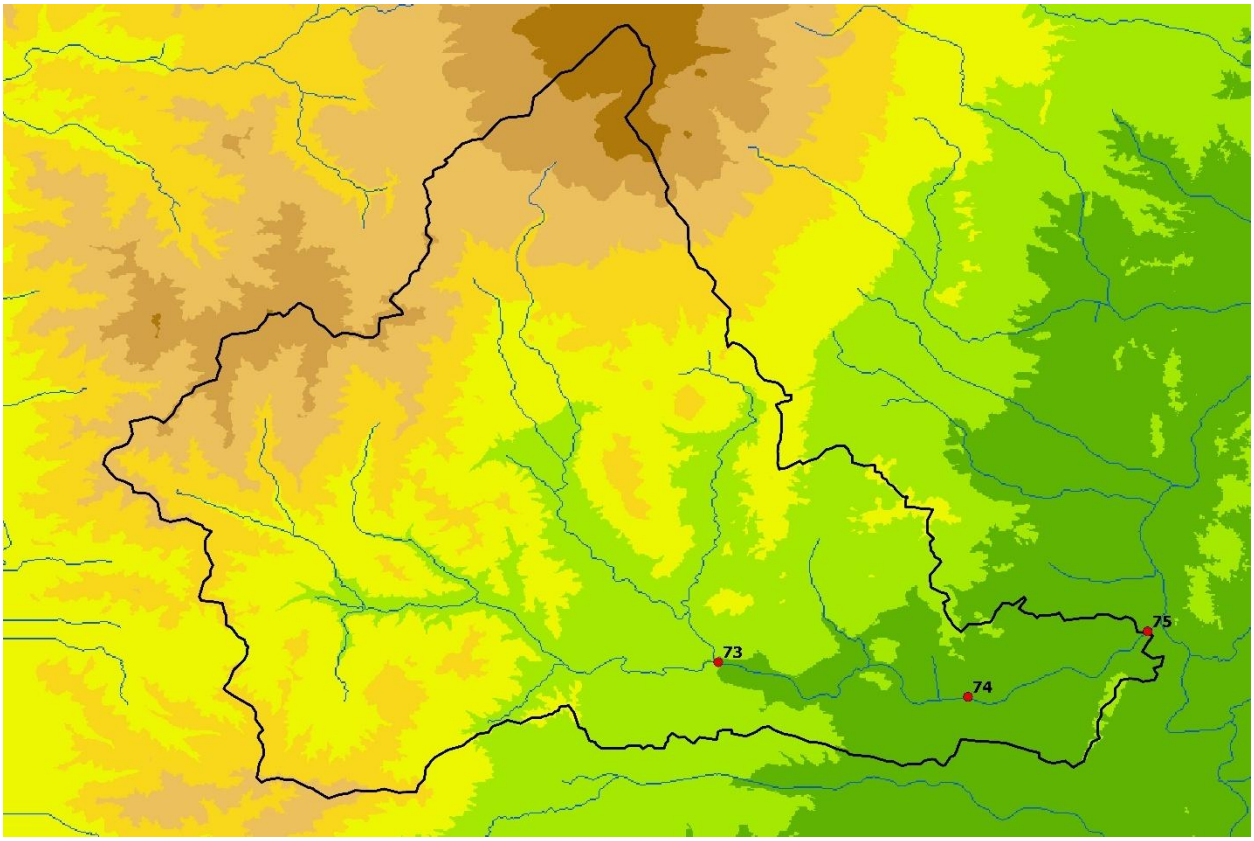

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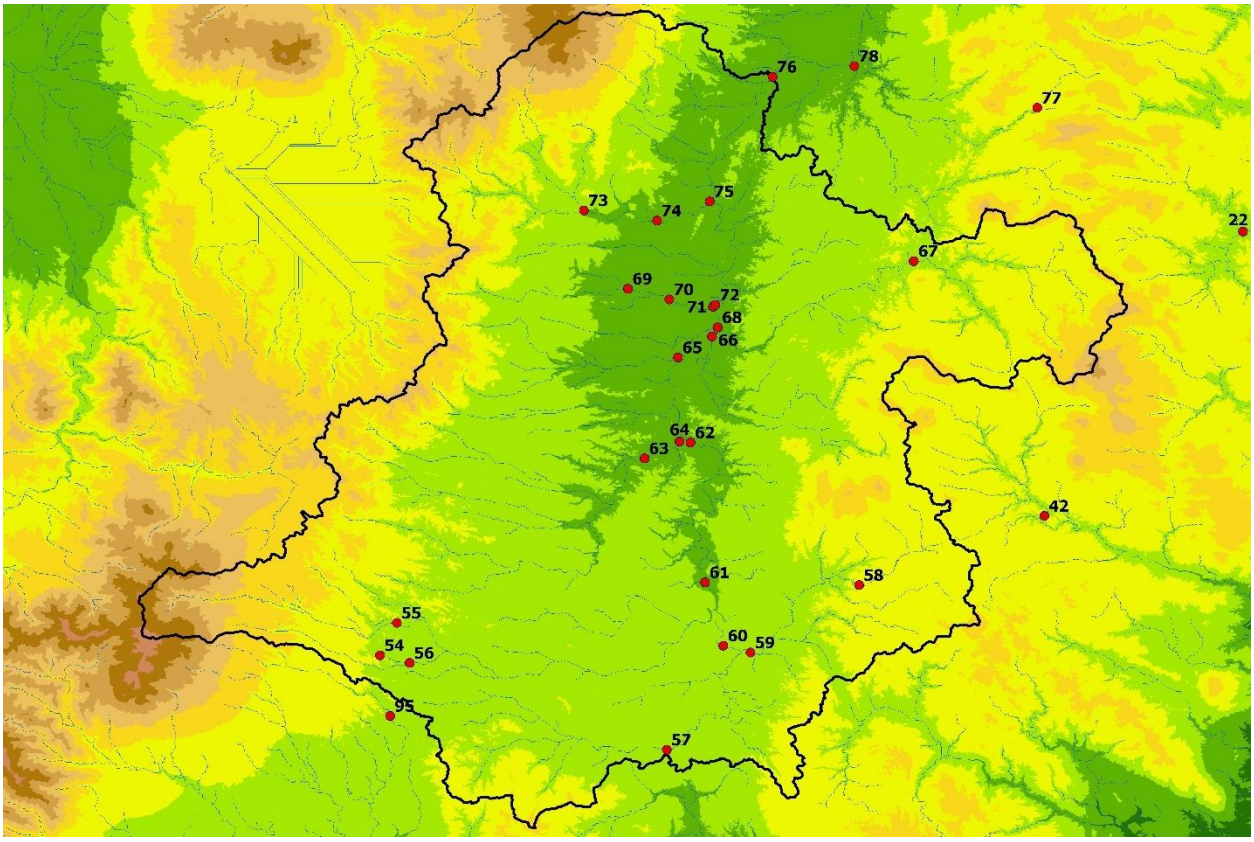

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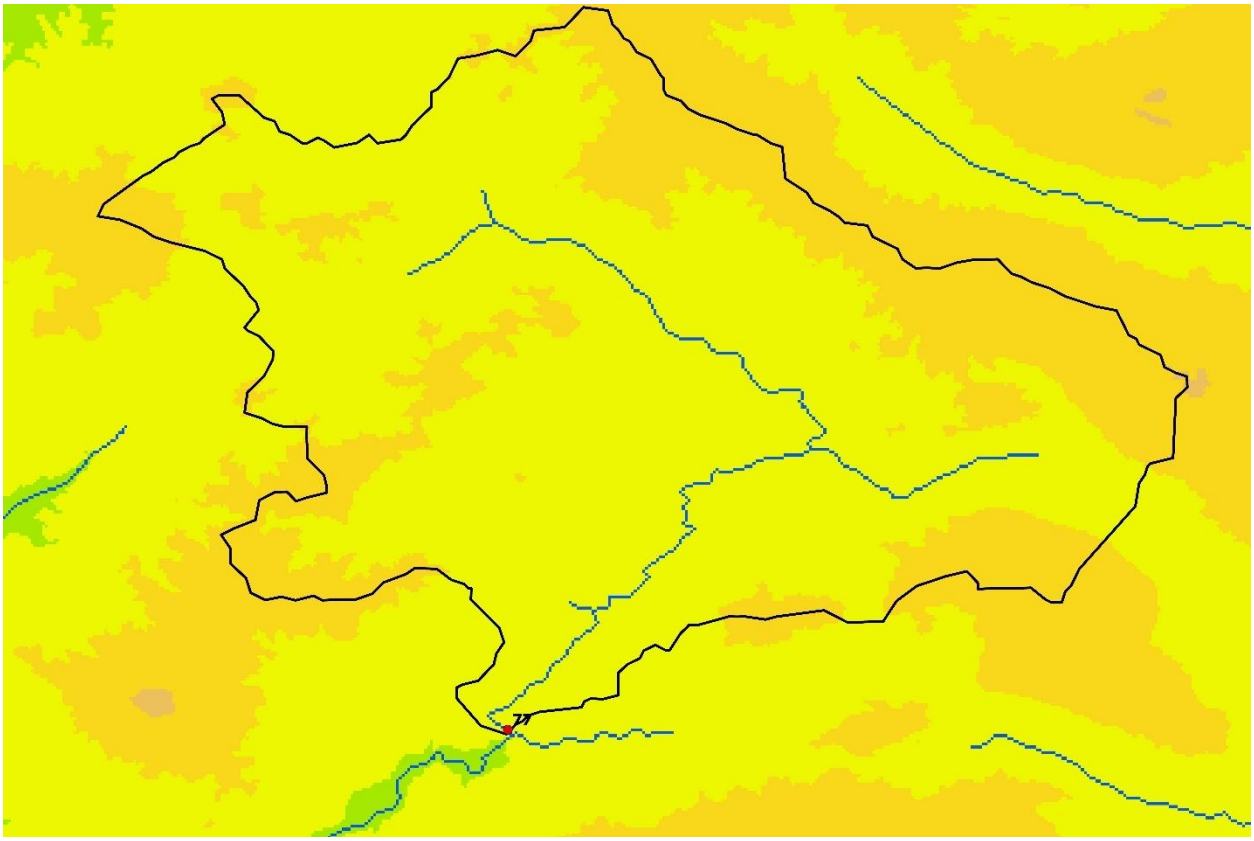

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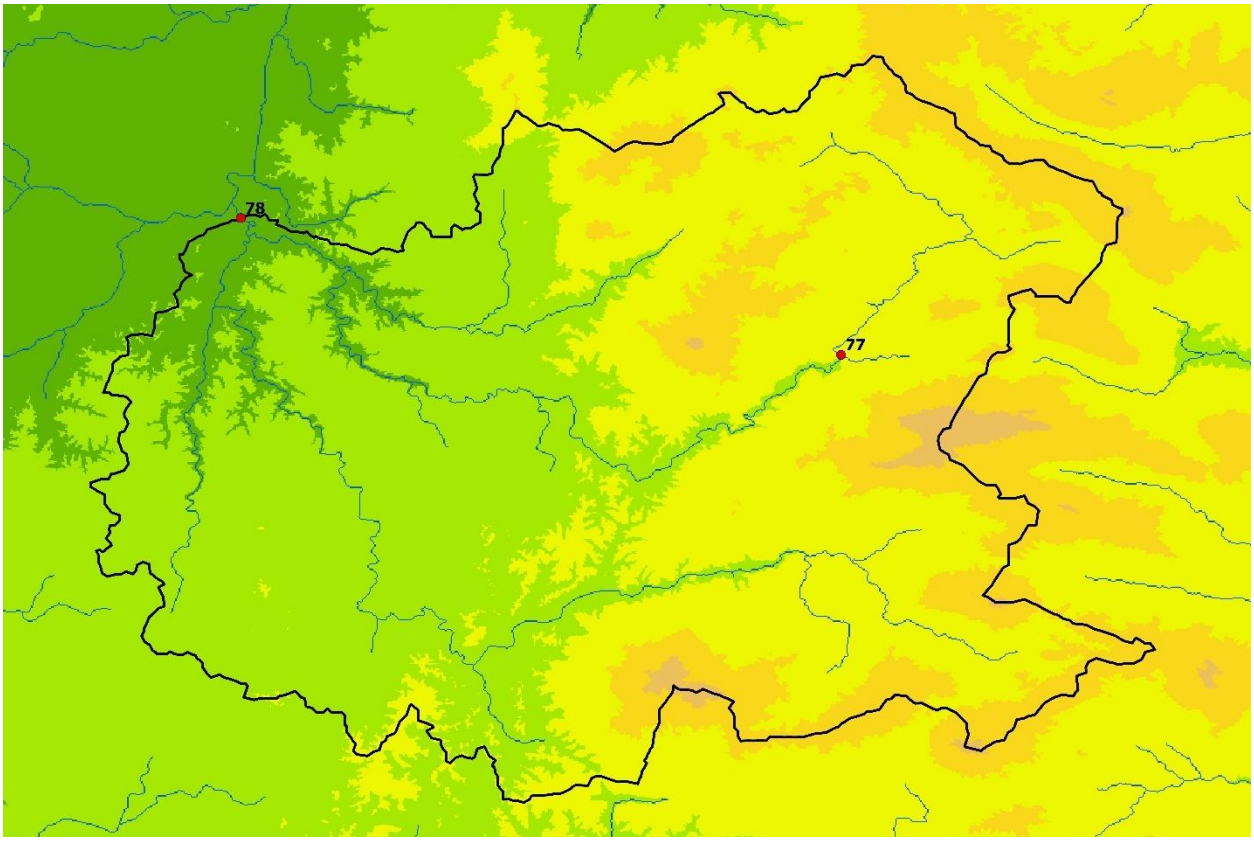

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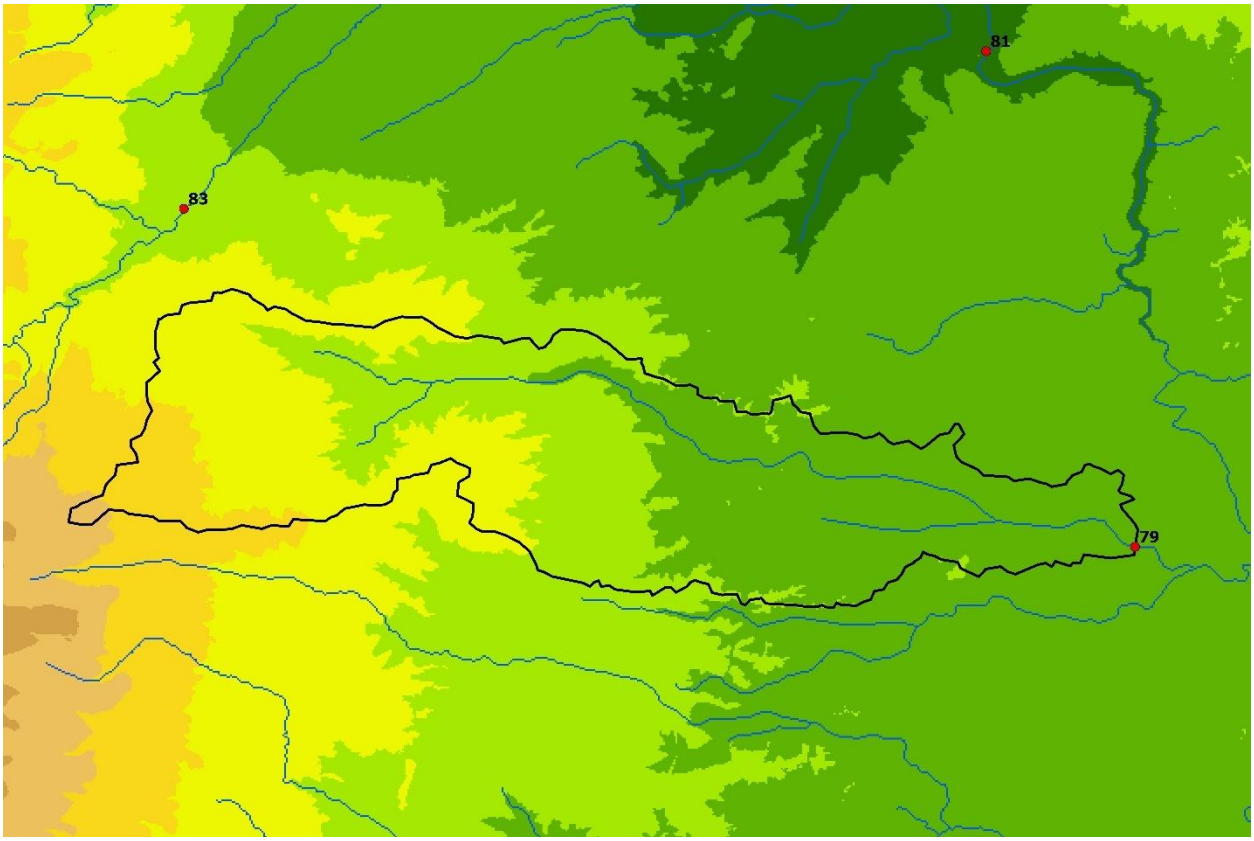

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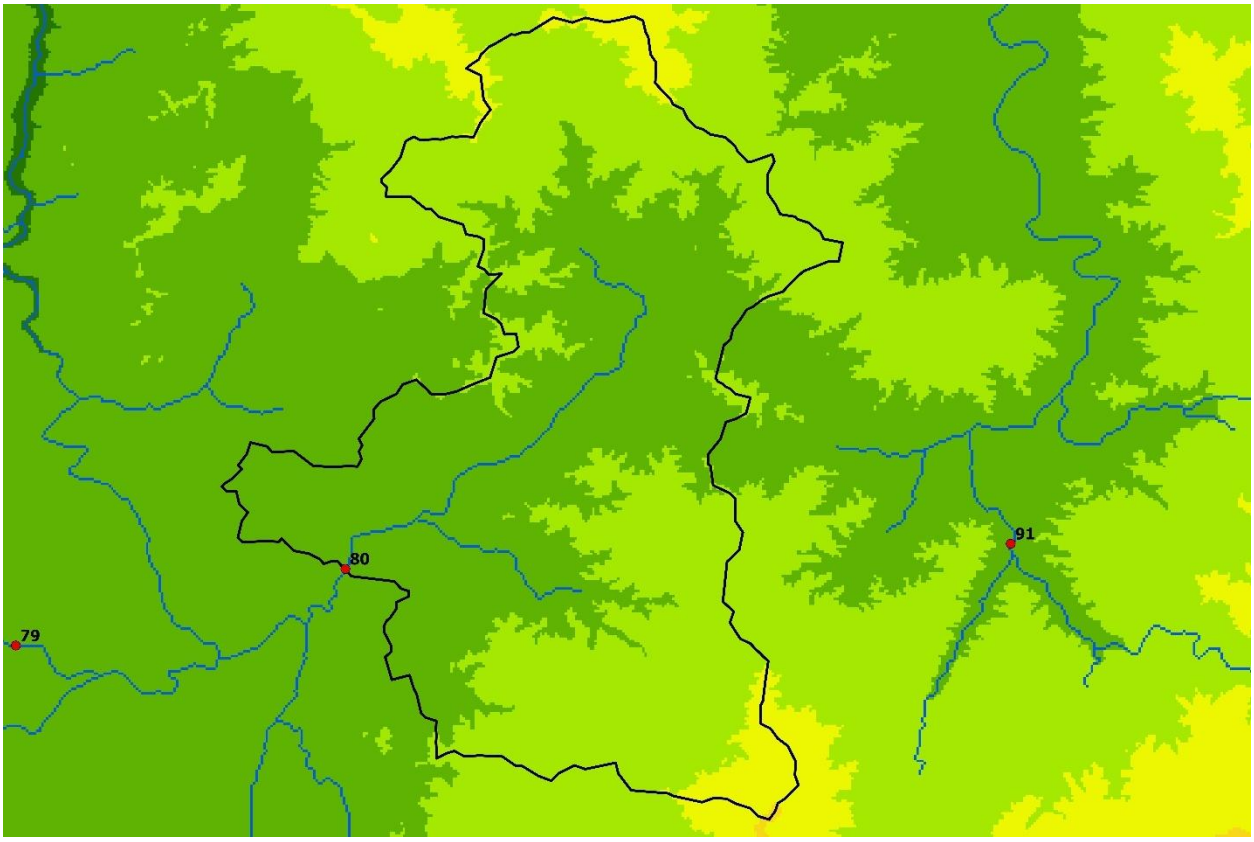

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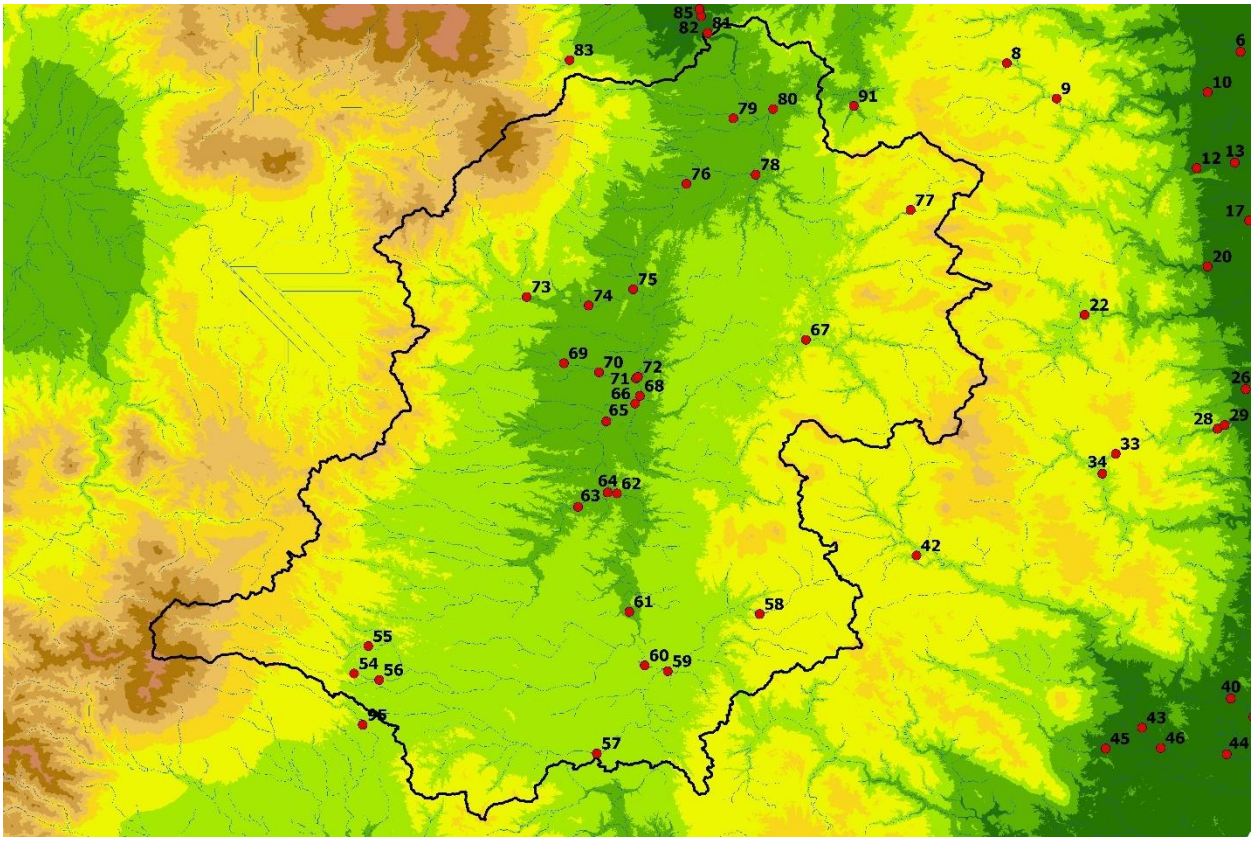

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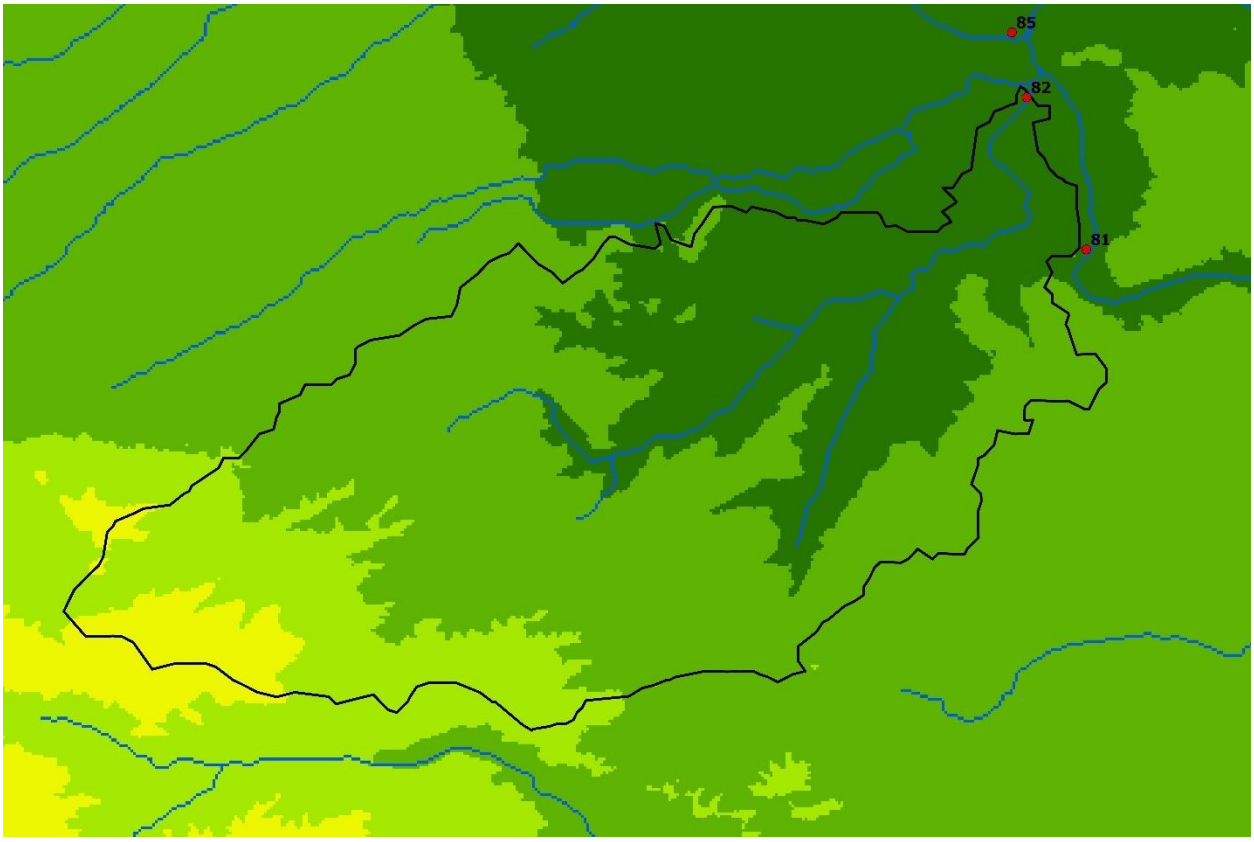

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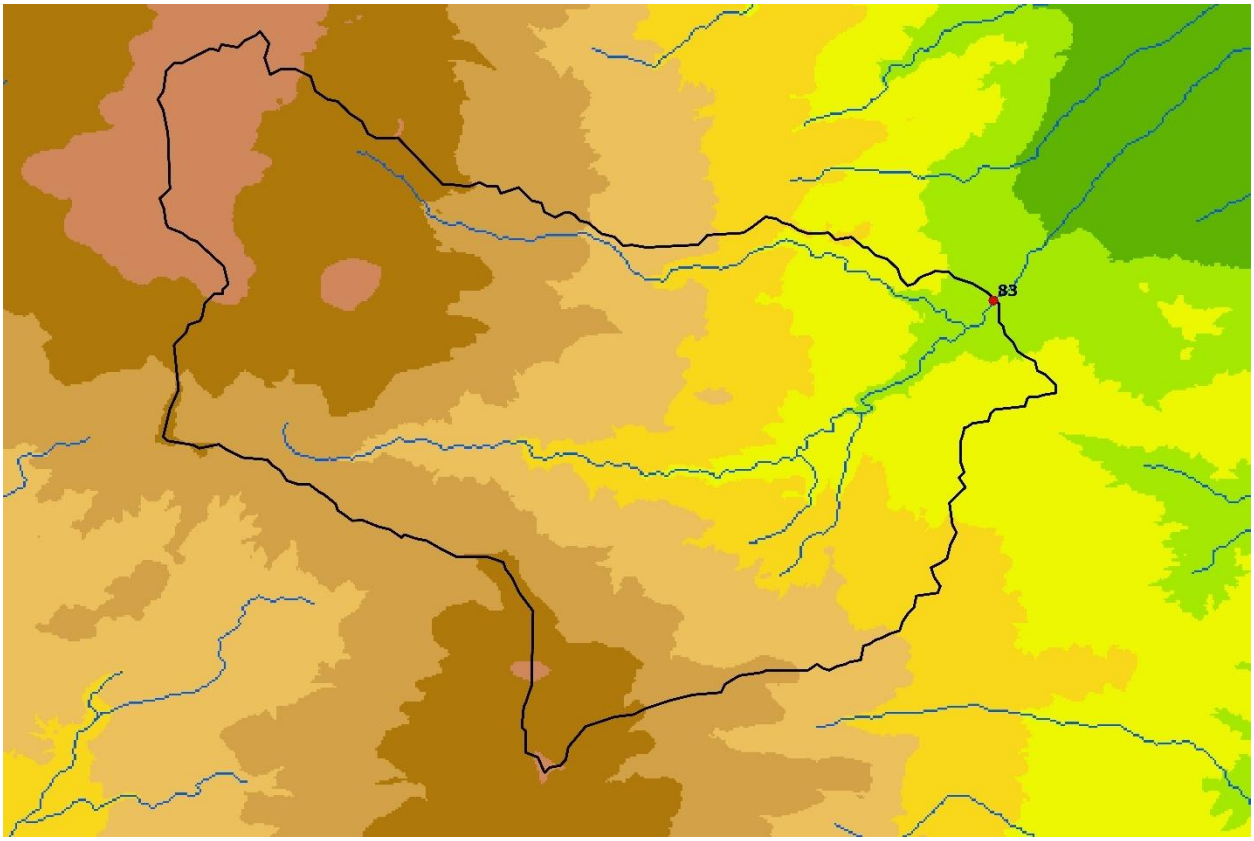

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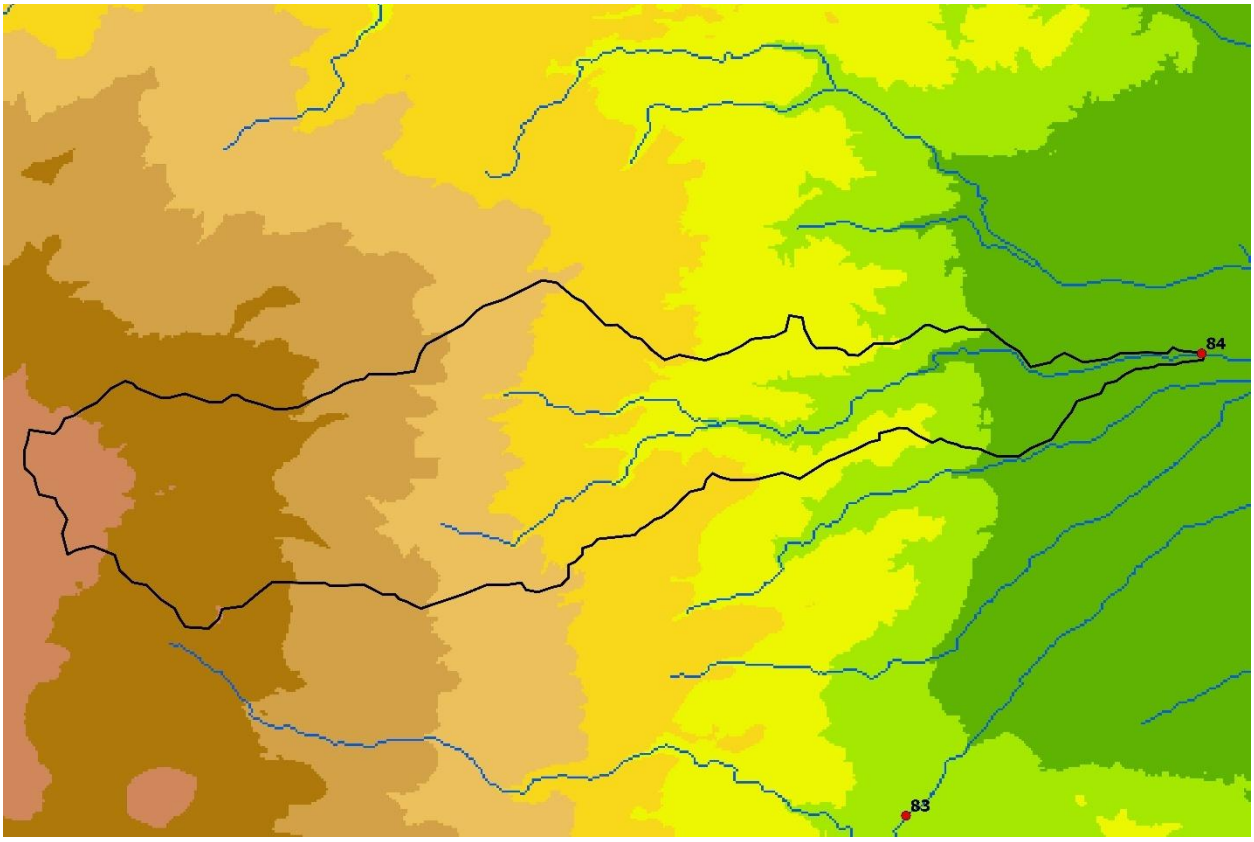

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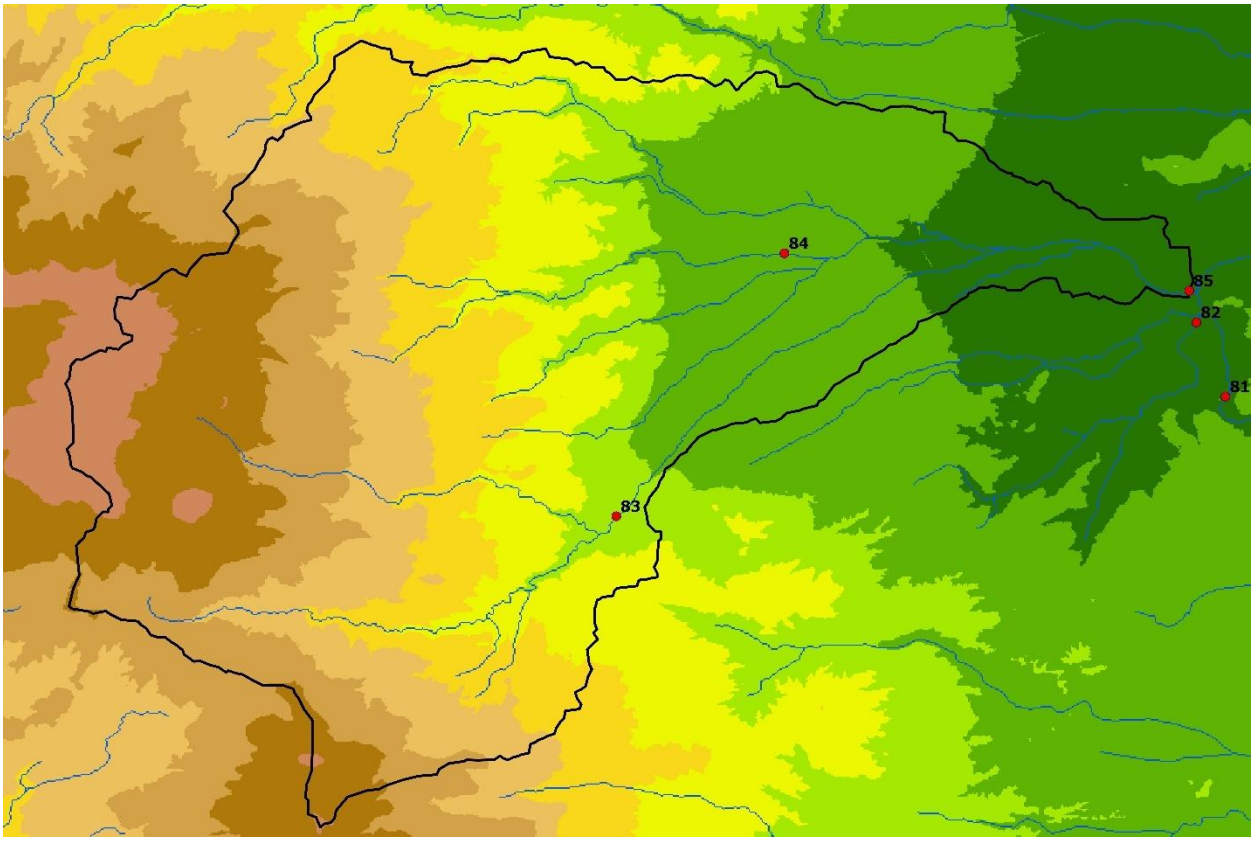

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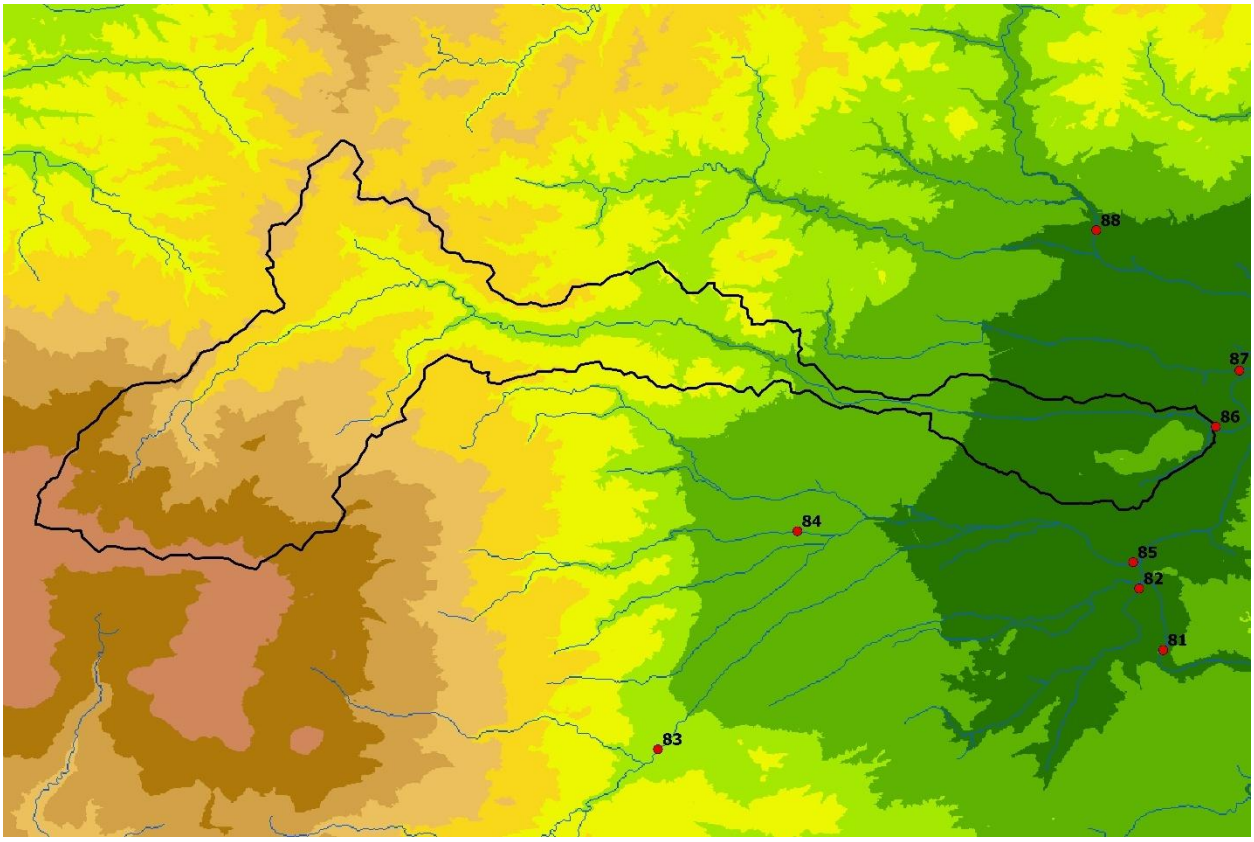

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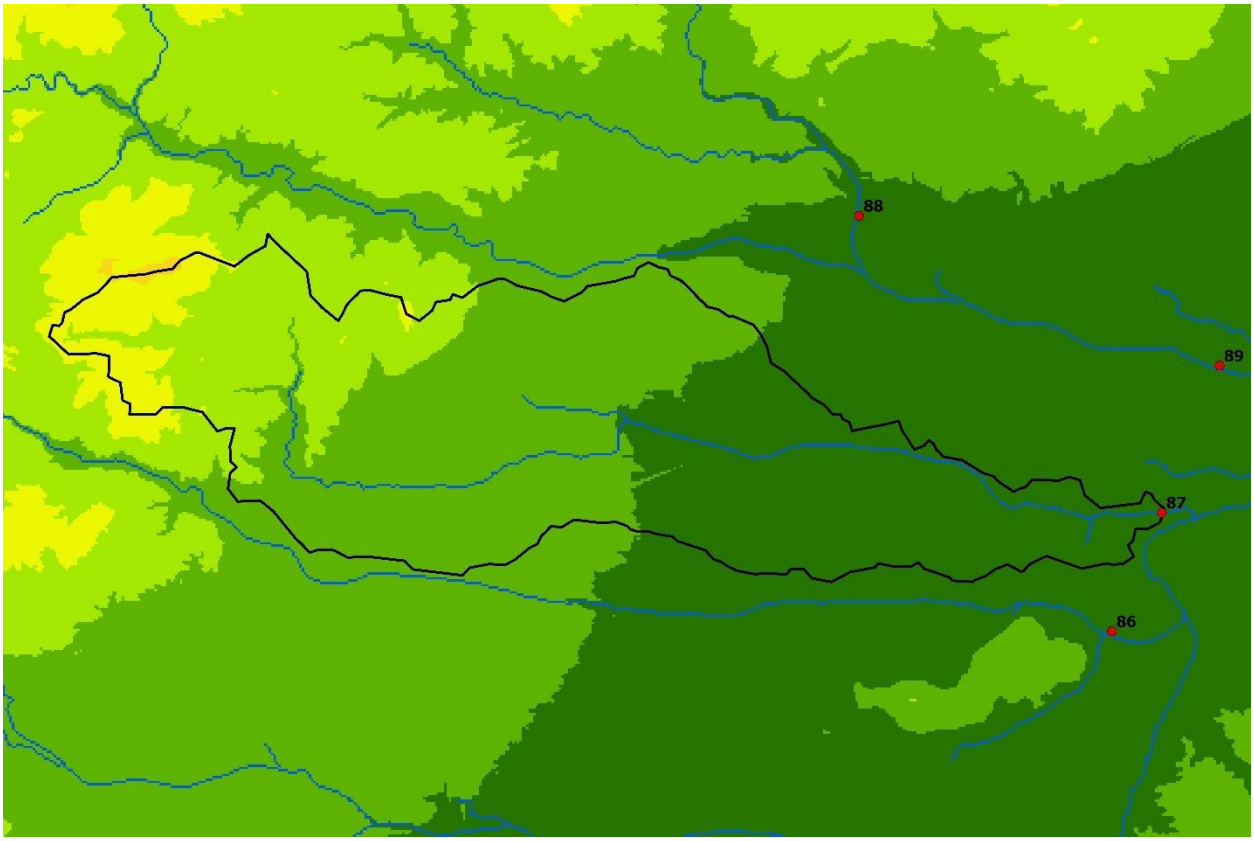

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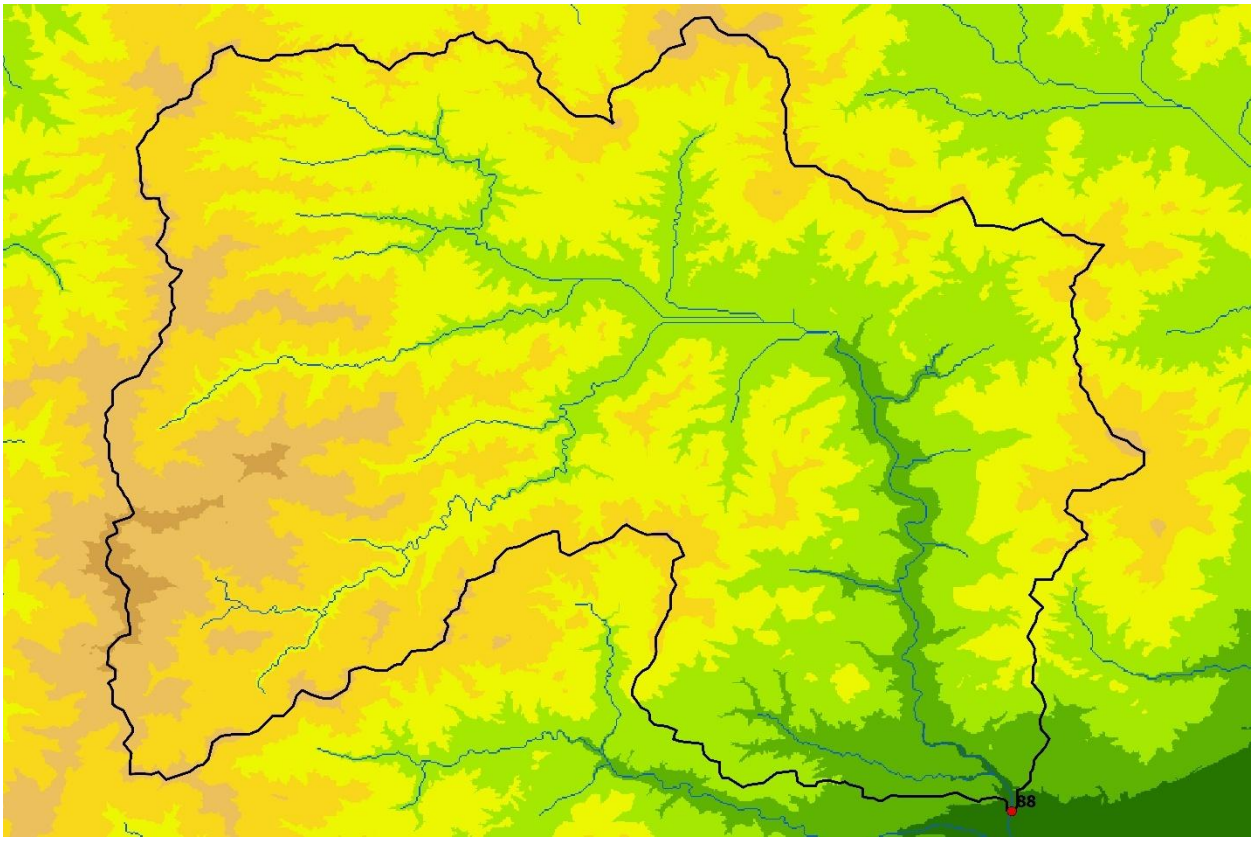

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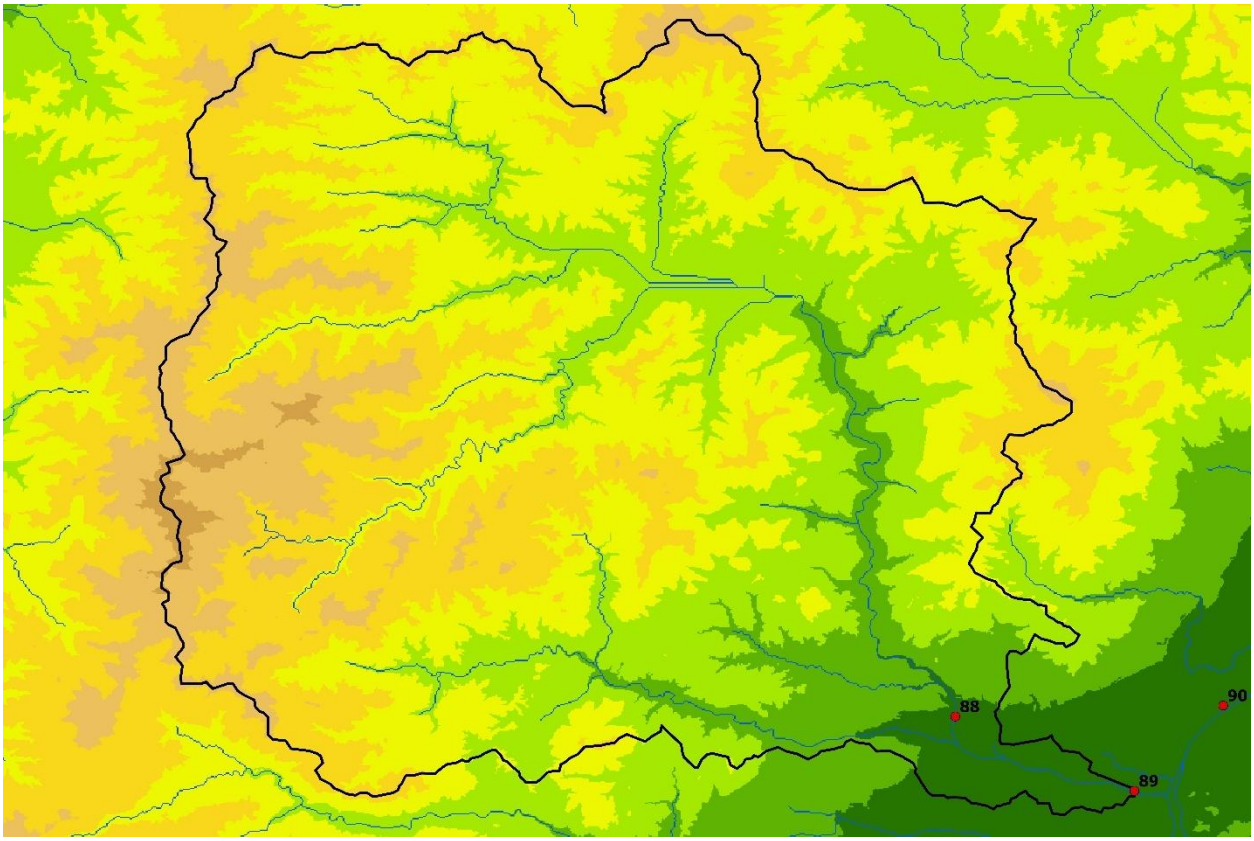

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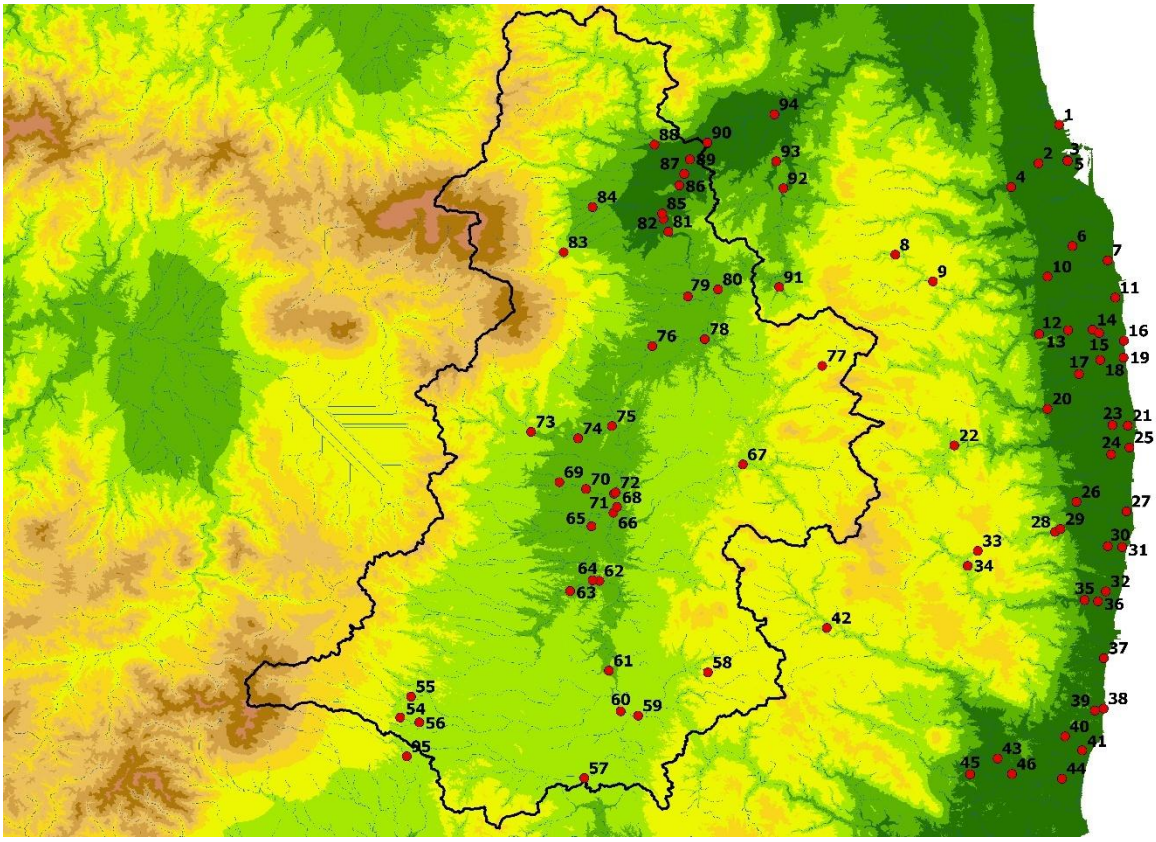

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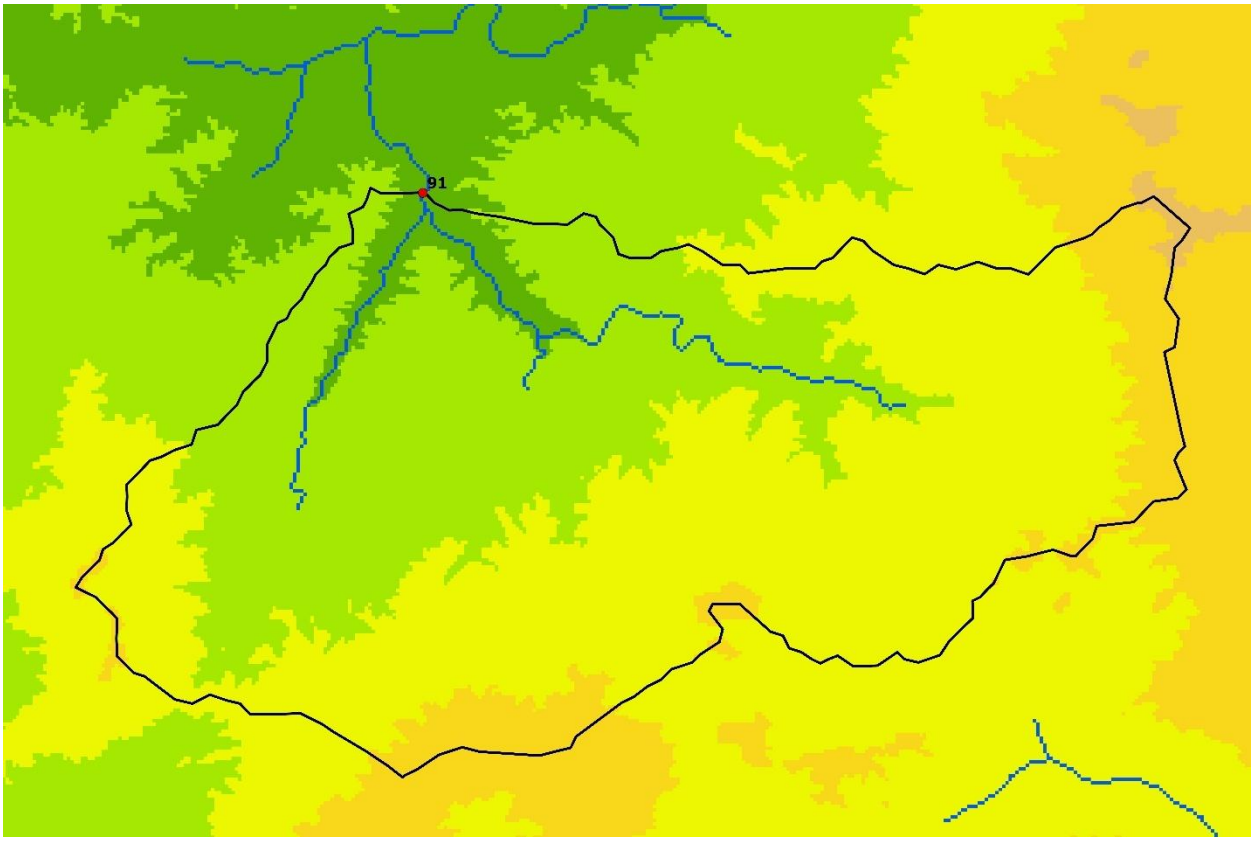

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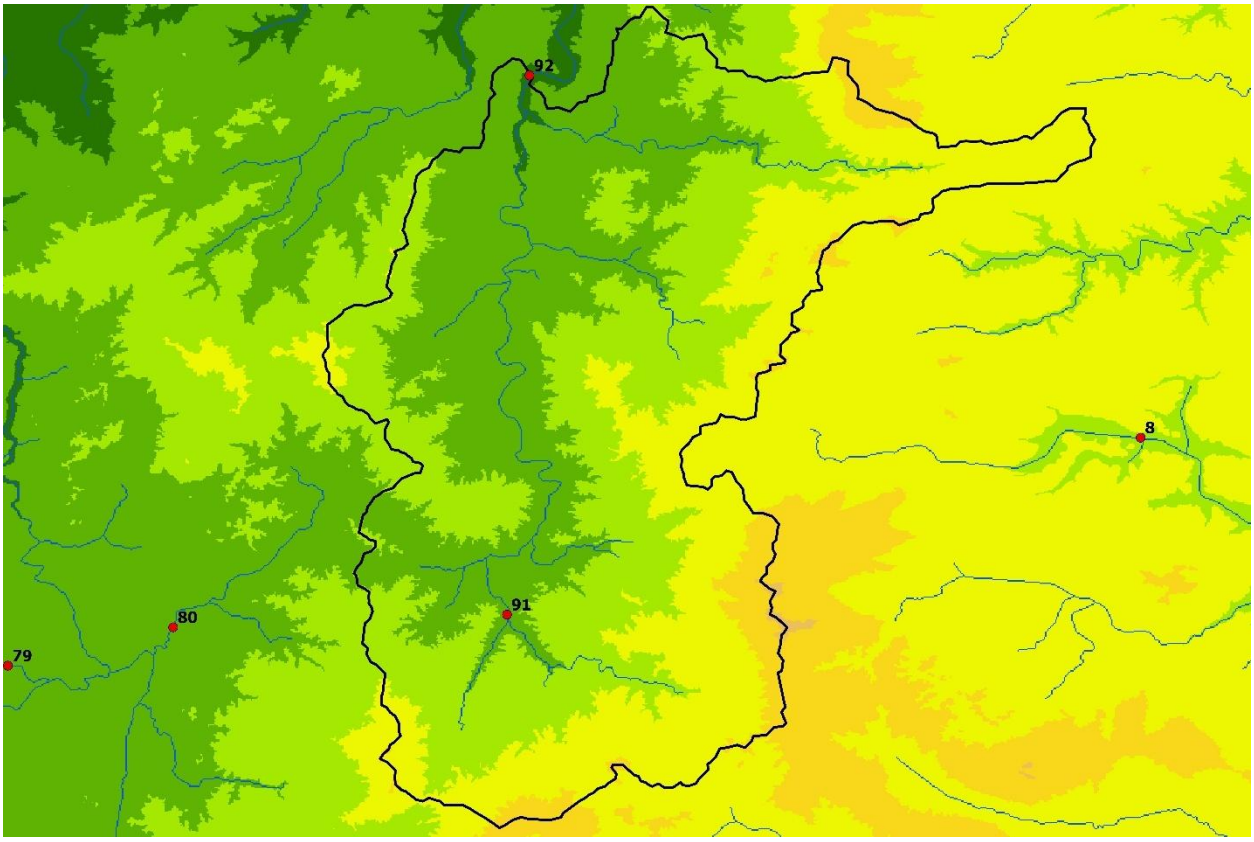

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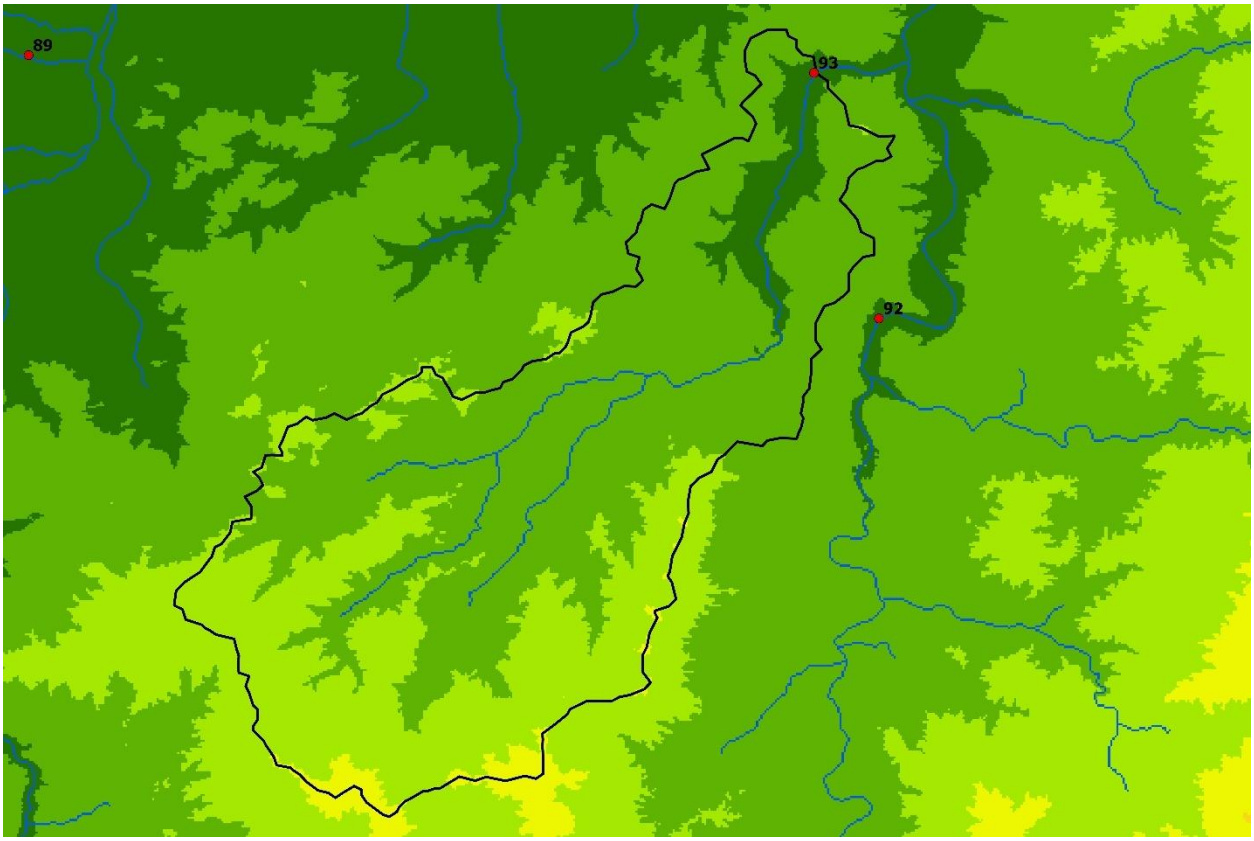

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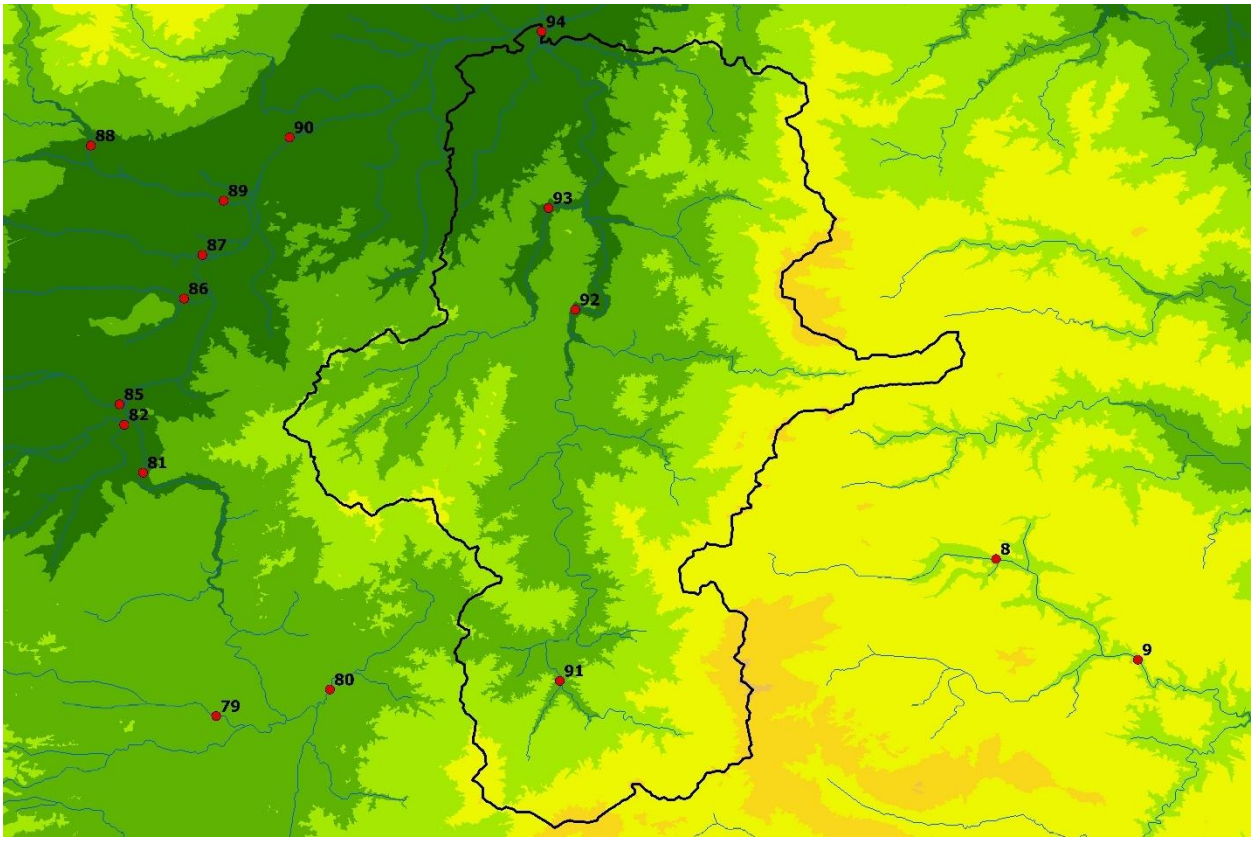

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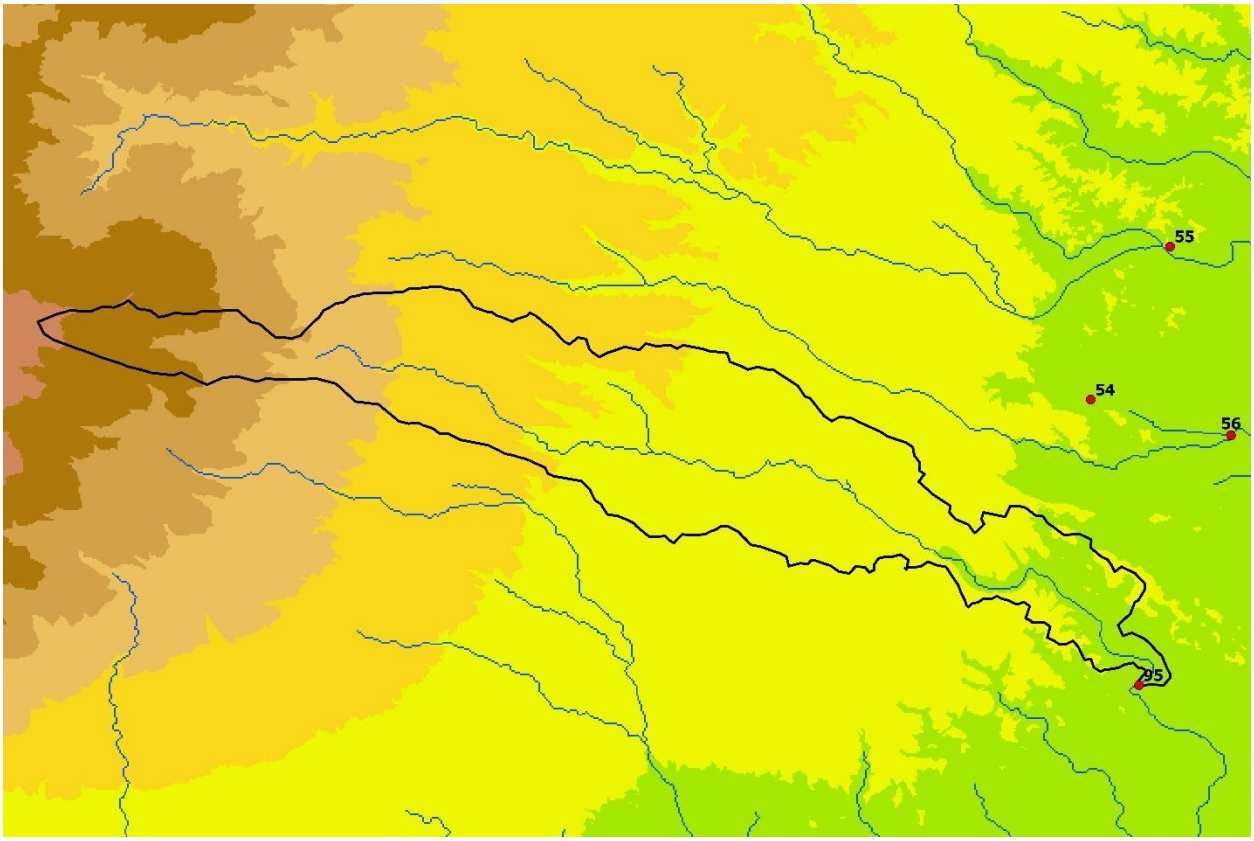

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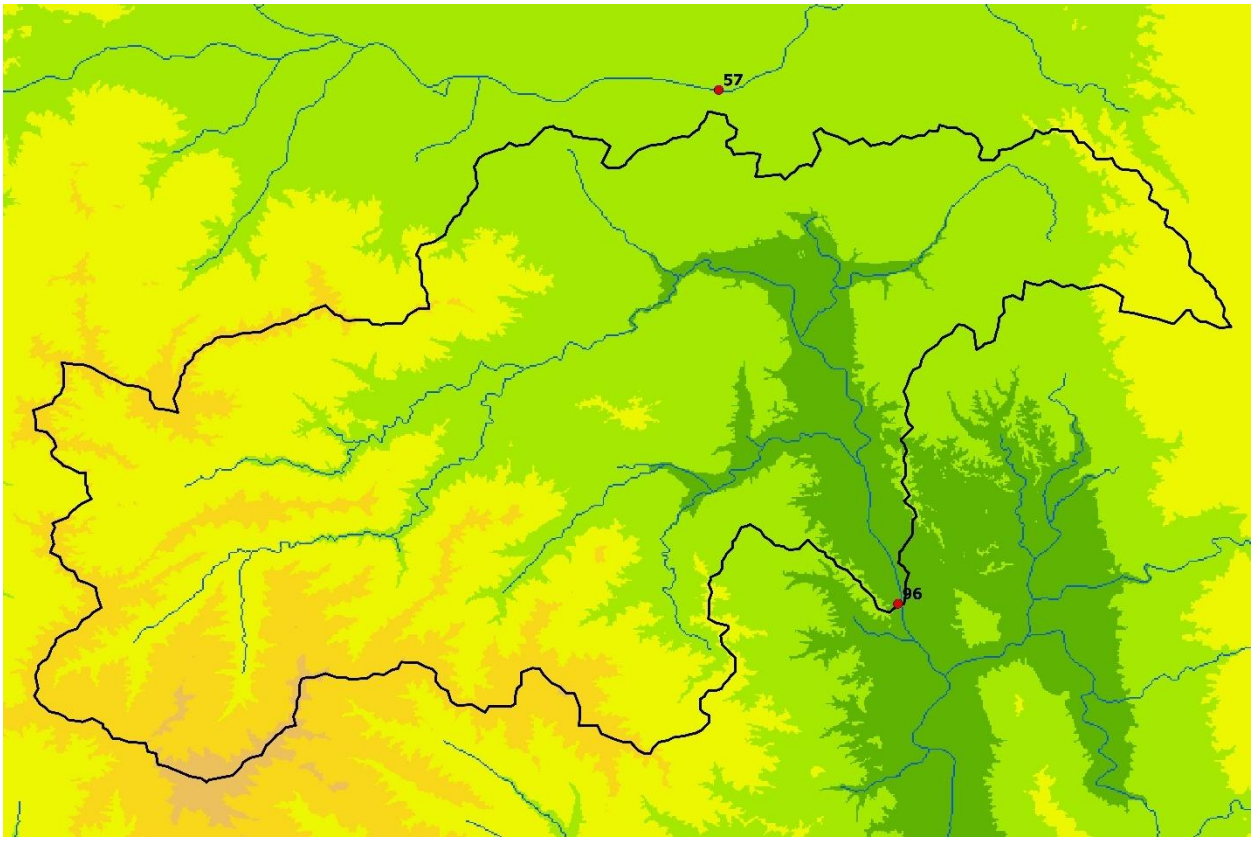

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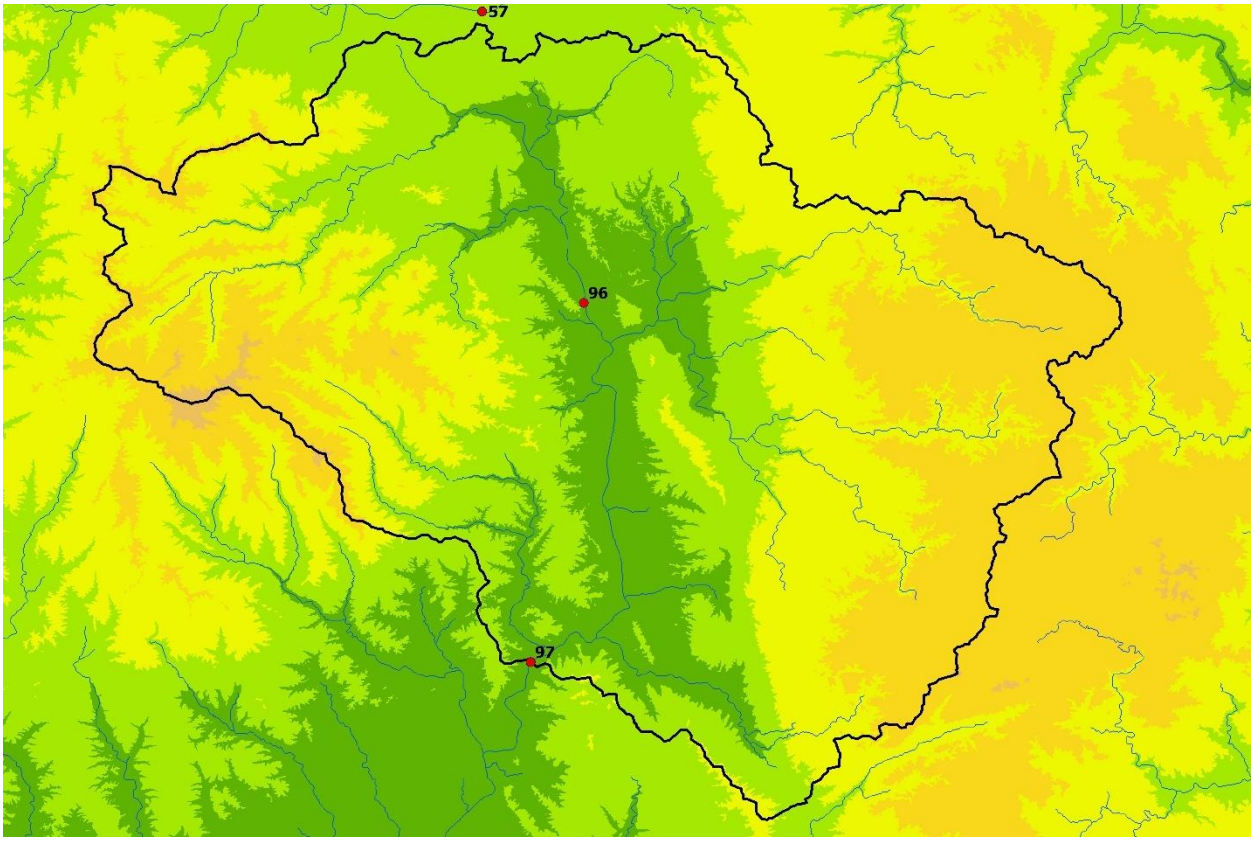

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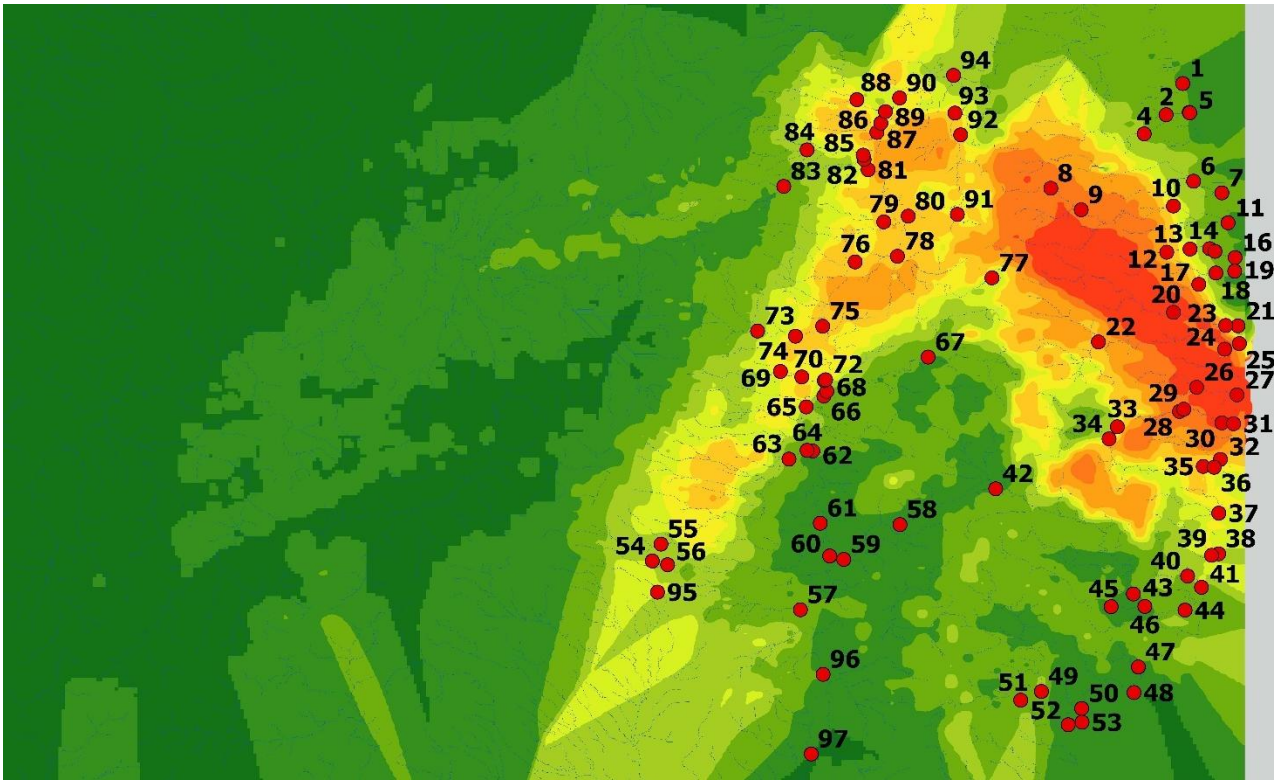

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G: Initial Deposition Overview for All Sites:

Key (Values in Bq/m^2):

Color	Upper value	Label
	≤ 0.0	0
	≤ 40512.376471	0.001 - 40,512.376
	≤ 81024.752941	40,512.377 - 81,024.753
	≤ 121537.129412	81,024.754 - 121,537.129
	≤ 162049.505882	121,537.13 - 162,049.506
	≤ 202561.882353	162,049.507 - 202,561.882
	≤ 283586.635294	202,561.883 - 283,586.635
	≤ 405123.764706	283,586.636 - 405,123.765
	≤ 729222.776471	405,123.766 - 729,222.776
	≤ 1498957.929412	729,222.777 - 1,498,957.929
	≤ 10330656.0	1,498,957.93 - 10,330,656

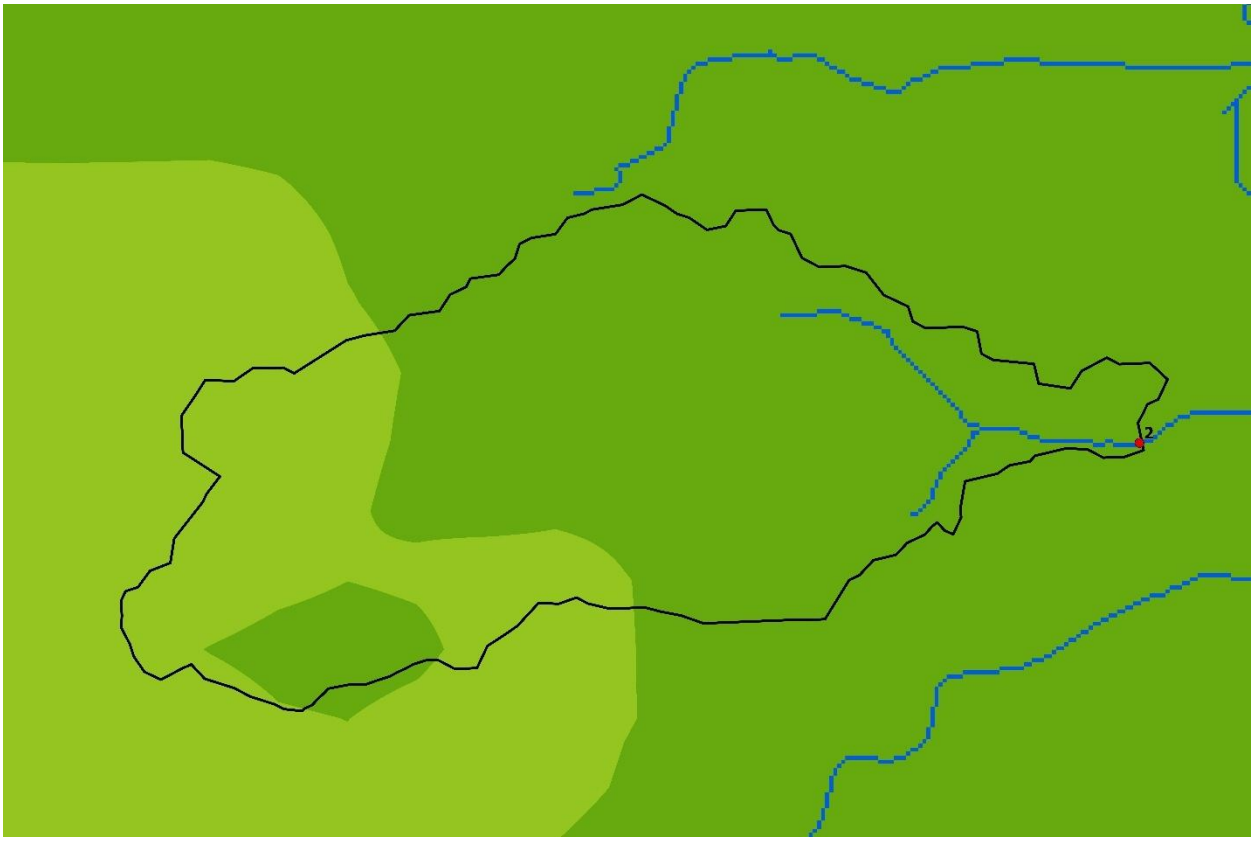


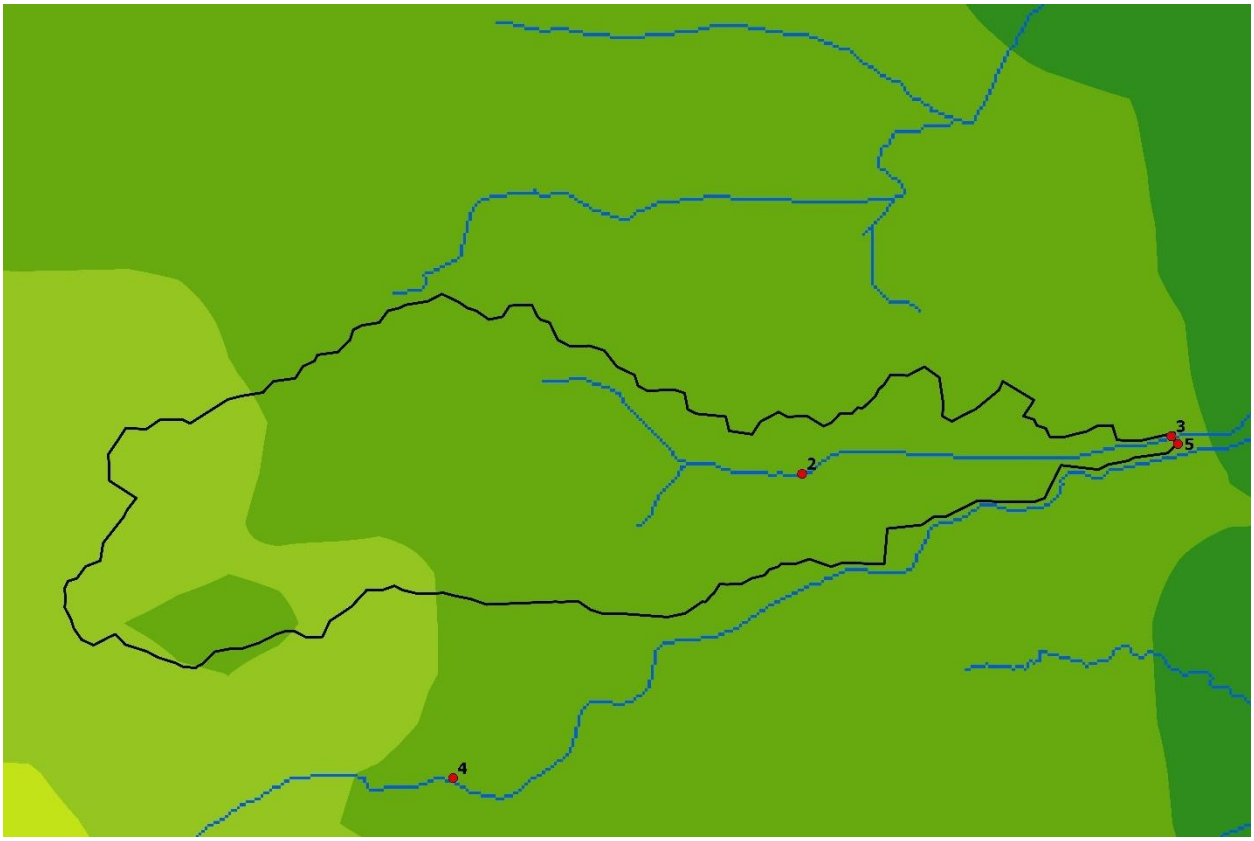
H: Initial Deposition for Individual Sites (1-97 in Order):

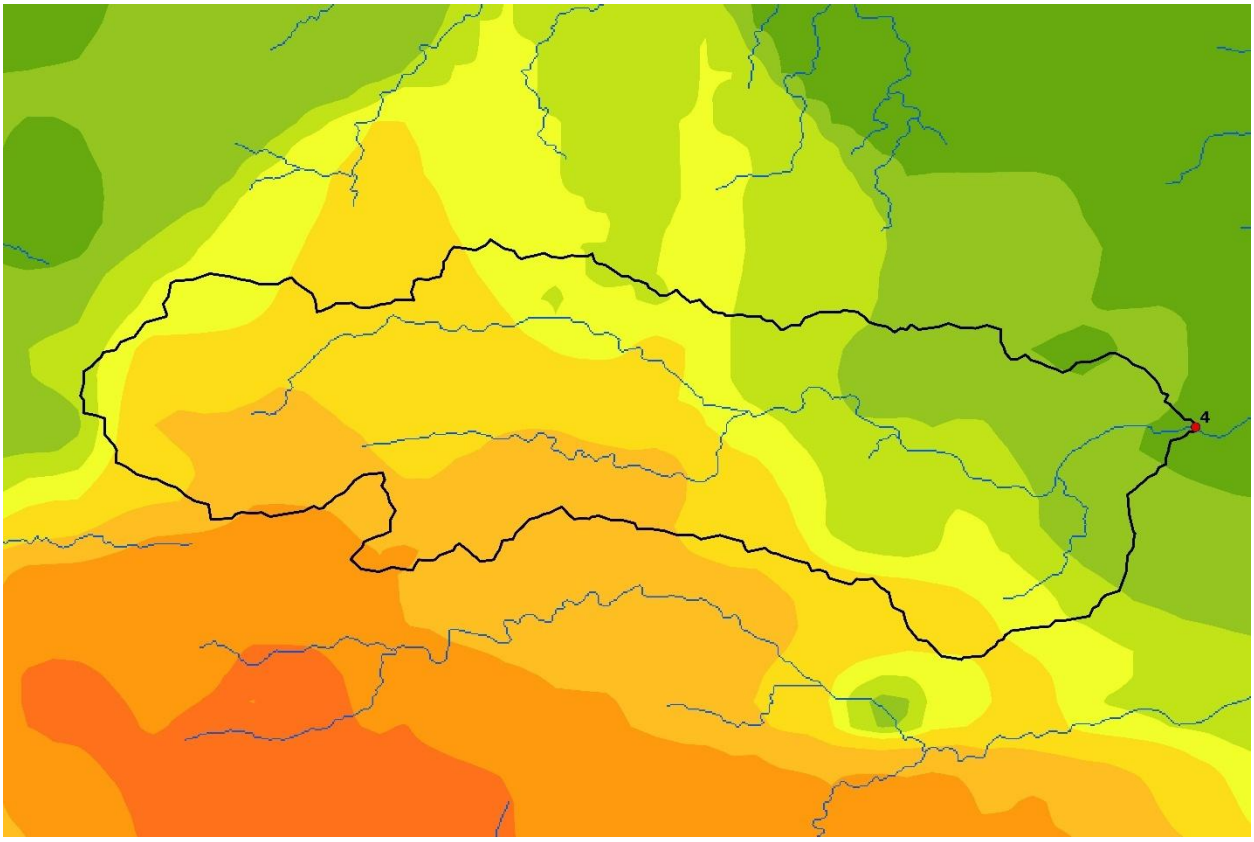
Key for All Plots (Values in Bq/m^2):

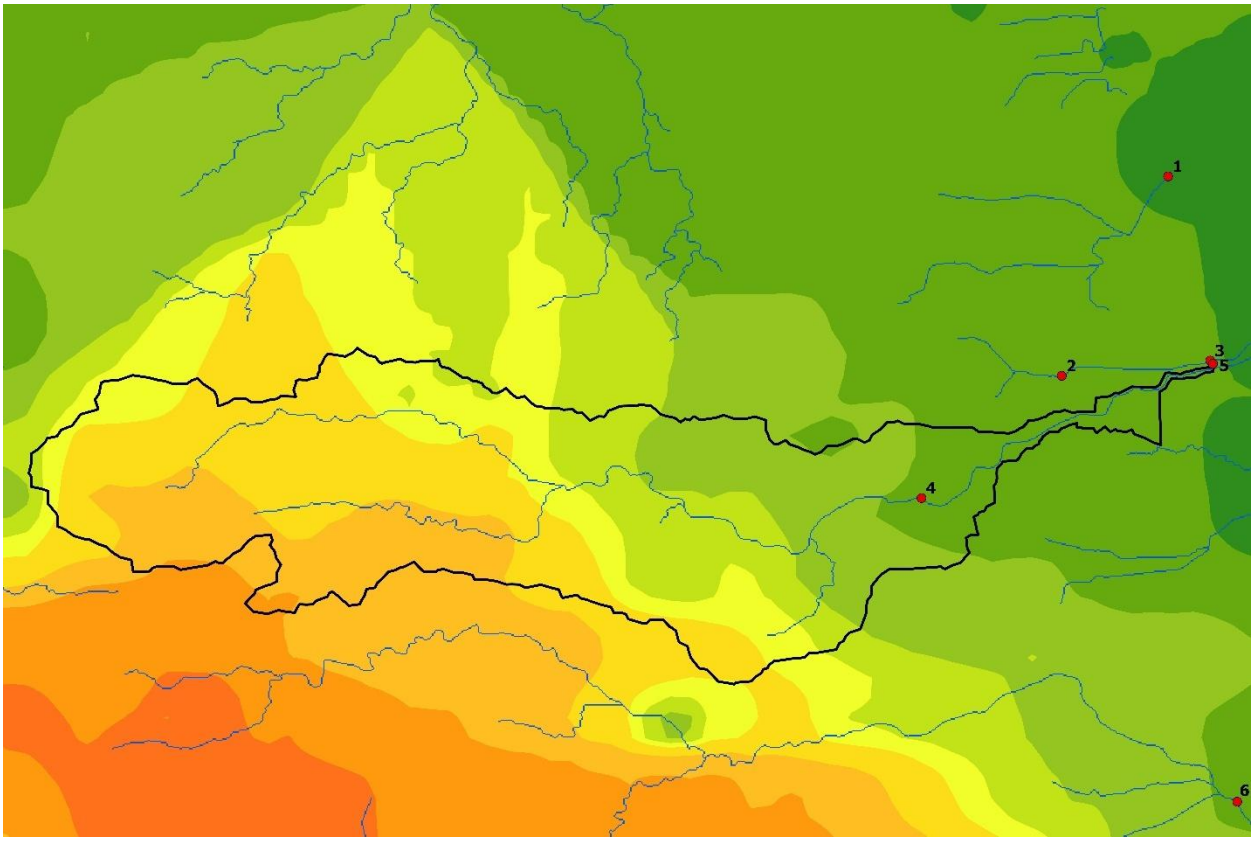
Color	Upper value	Label
	≤ 0.0	0
	≤ 40512.376471	0.001 - 40,512.376
	≤ 81024.752941	40,512.377 - 81,024.753
	≤ 121537.129412	81,024.754 - 121,537.129
	≤ 162049.505882	121,537.13 - 162,049.506
	≤ 202561.882353	162,049.507 - 202,561.882
	≤ 283586.635294	202,561.883 - 283,586.635
	≤ 405123.764706	283,586.636 - 405,123.765
	≤ 729222.776471	405,123.766 - 729,222.776
	≤ 1498957.929412	729,222.777 - 1,498,957.929
	≤ 10330656.0	1,498,957.93 - 10,330,656

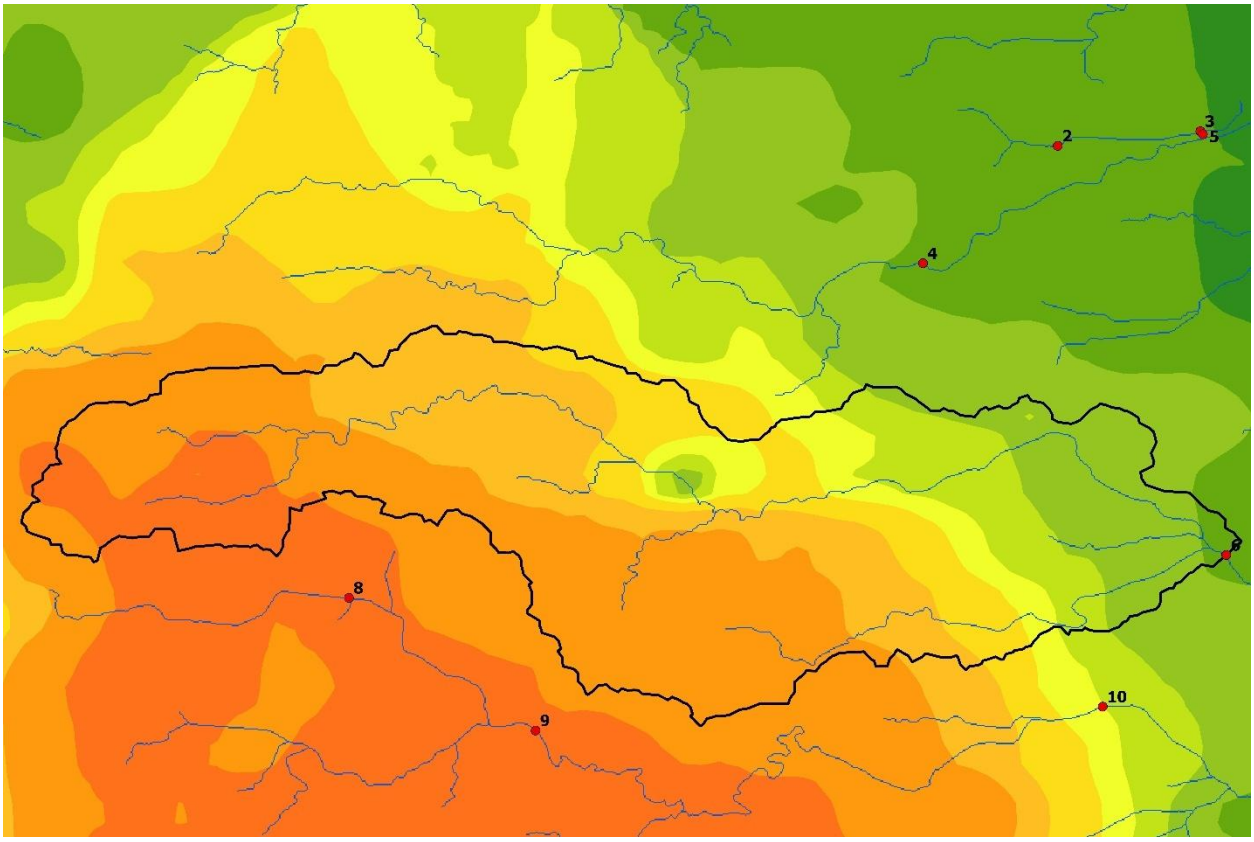


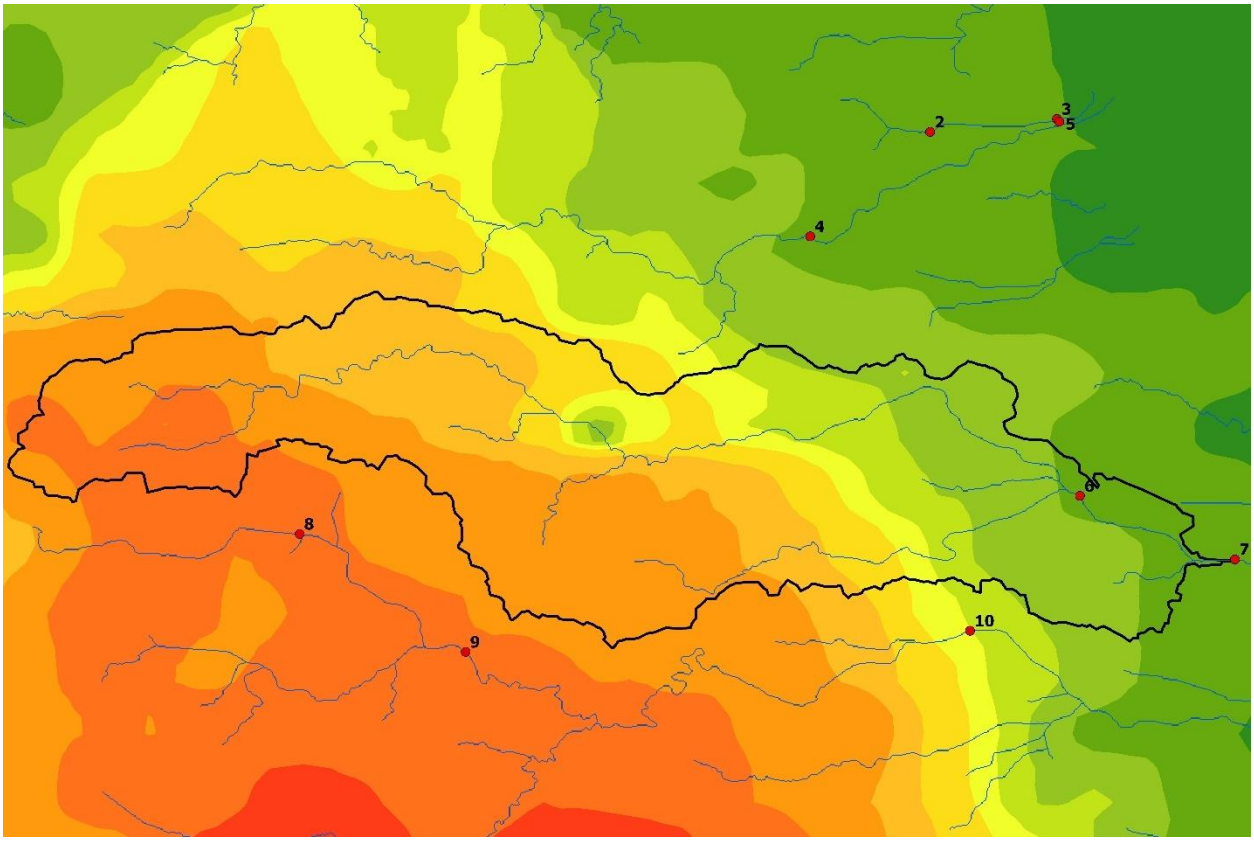

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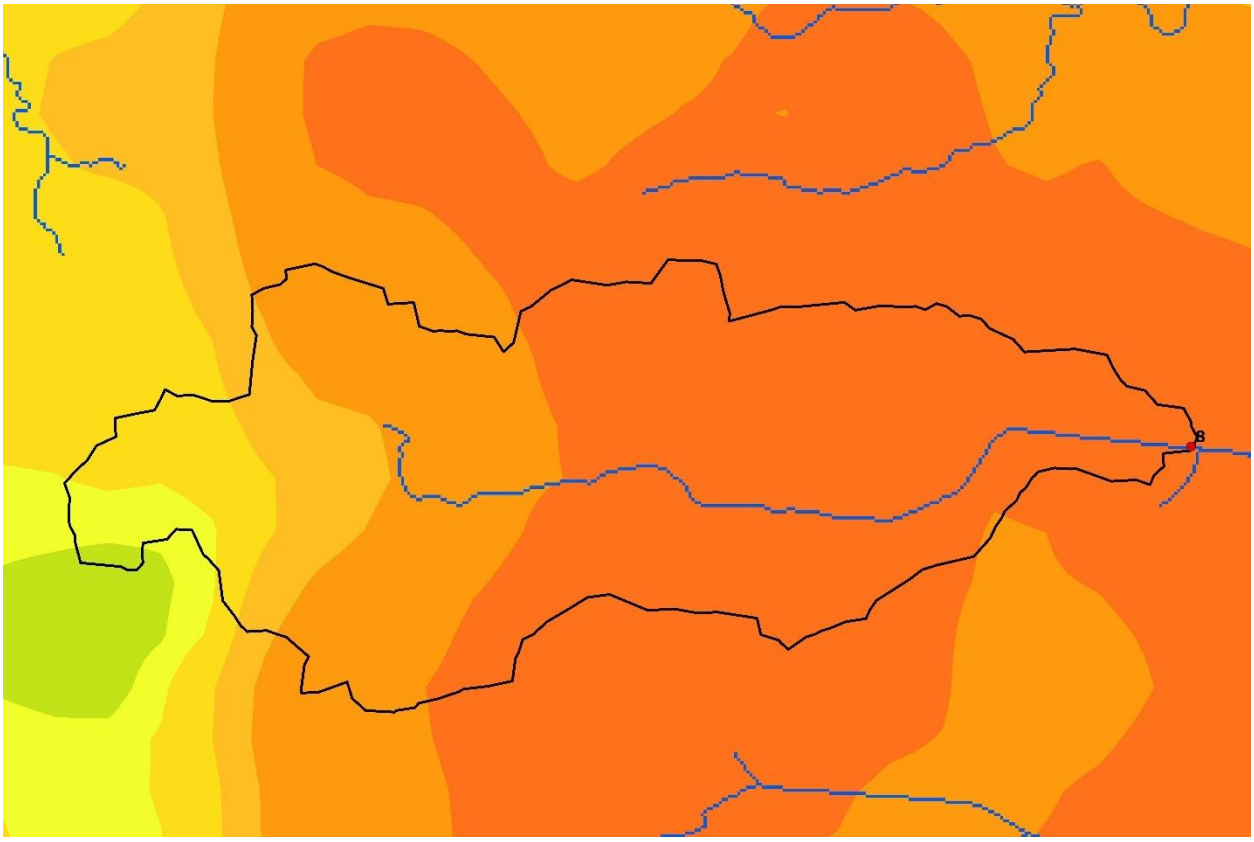

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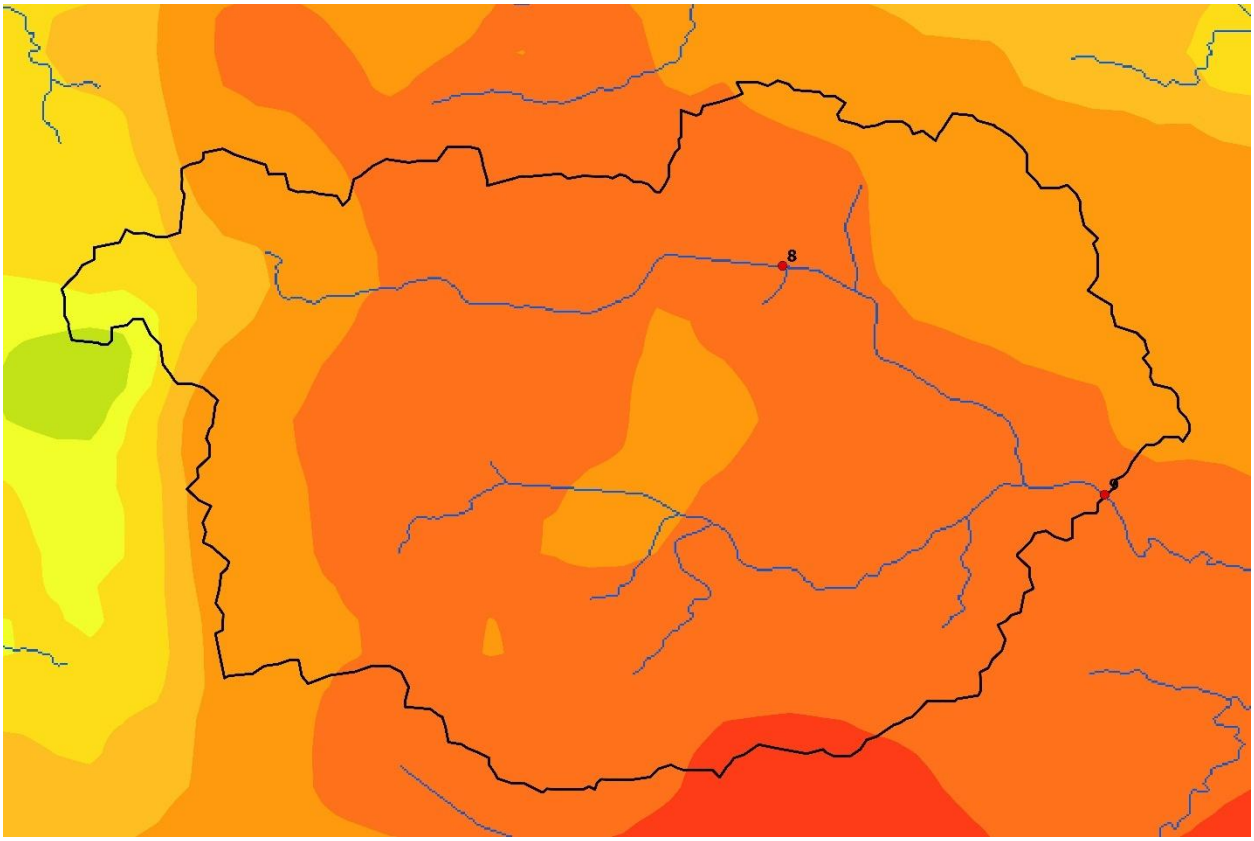

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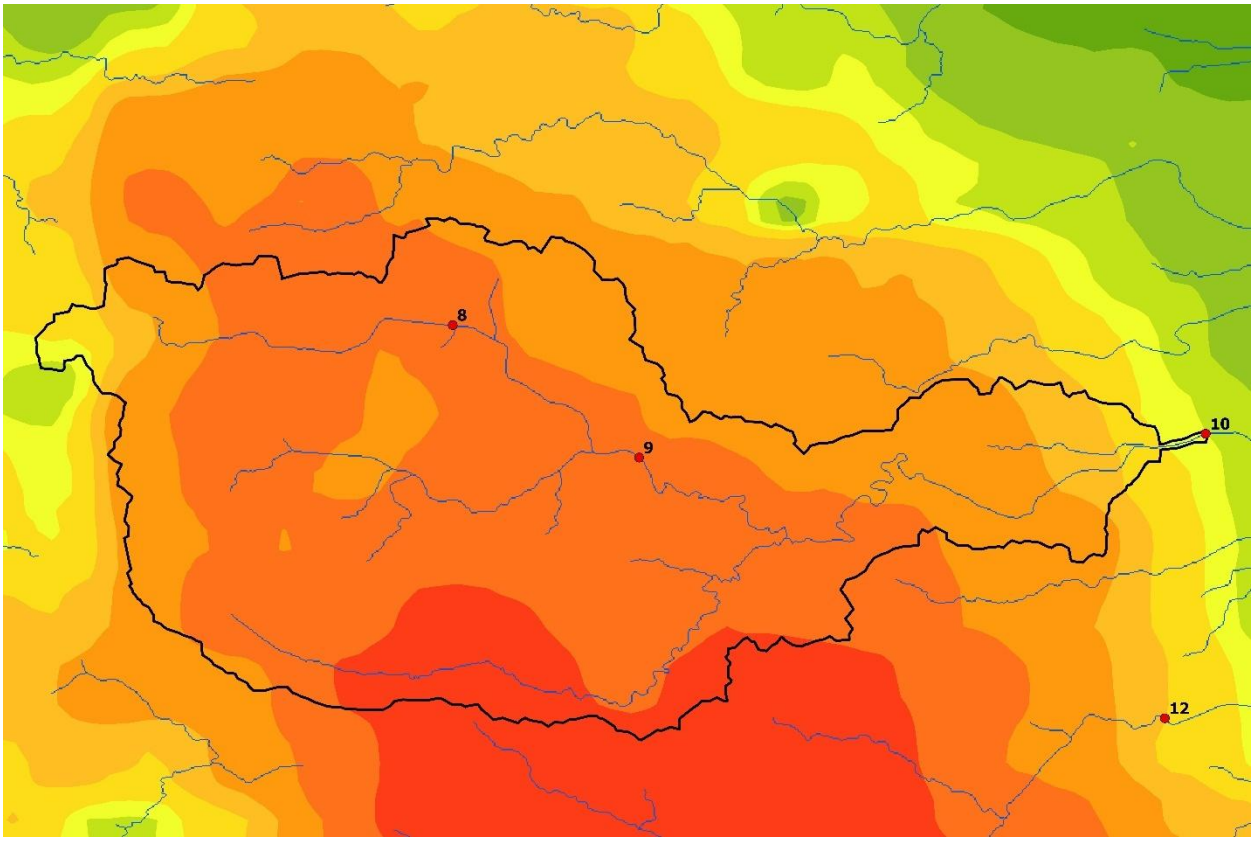

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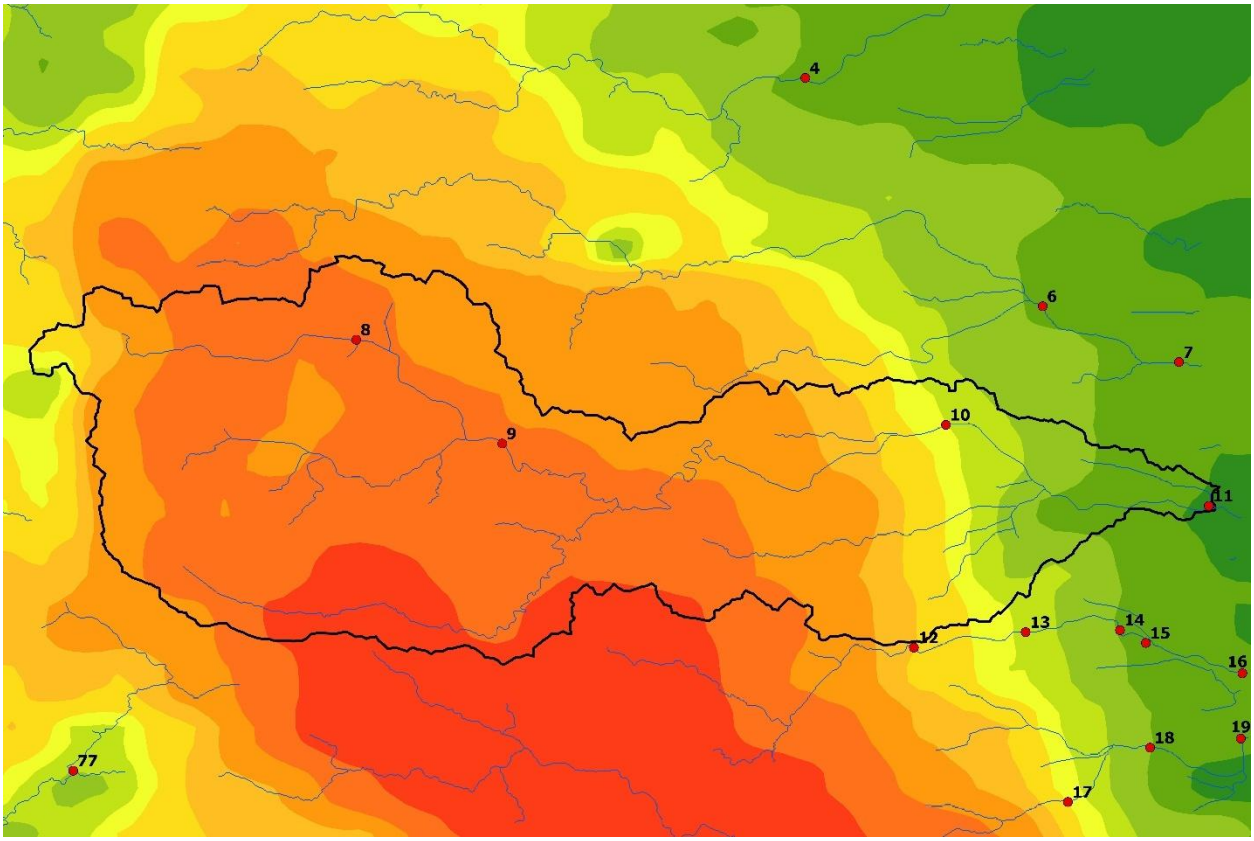

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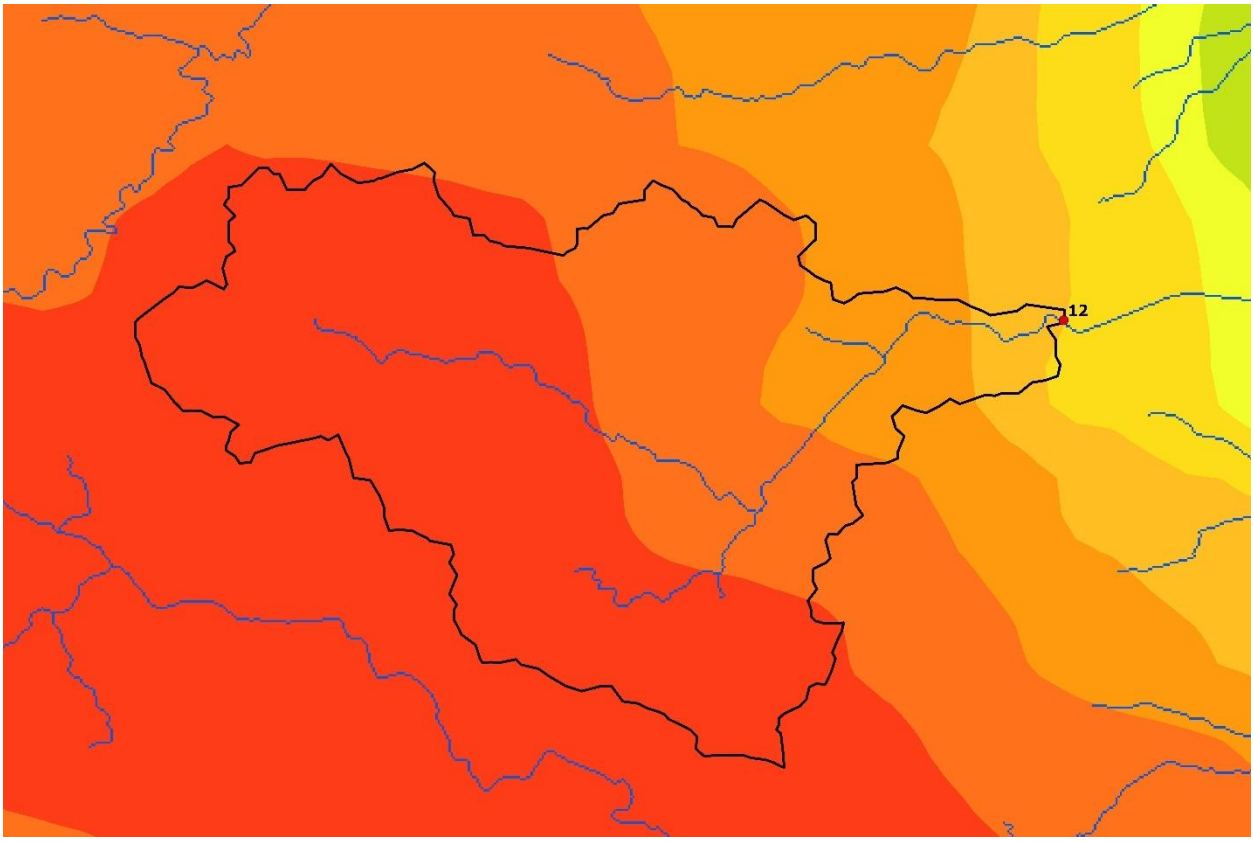

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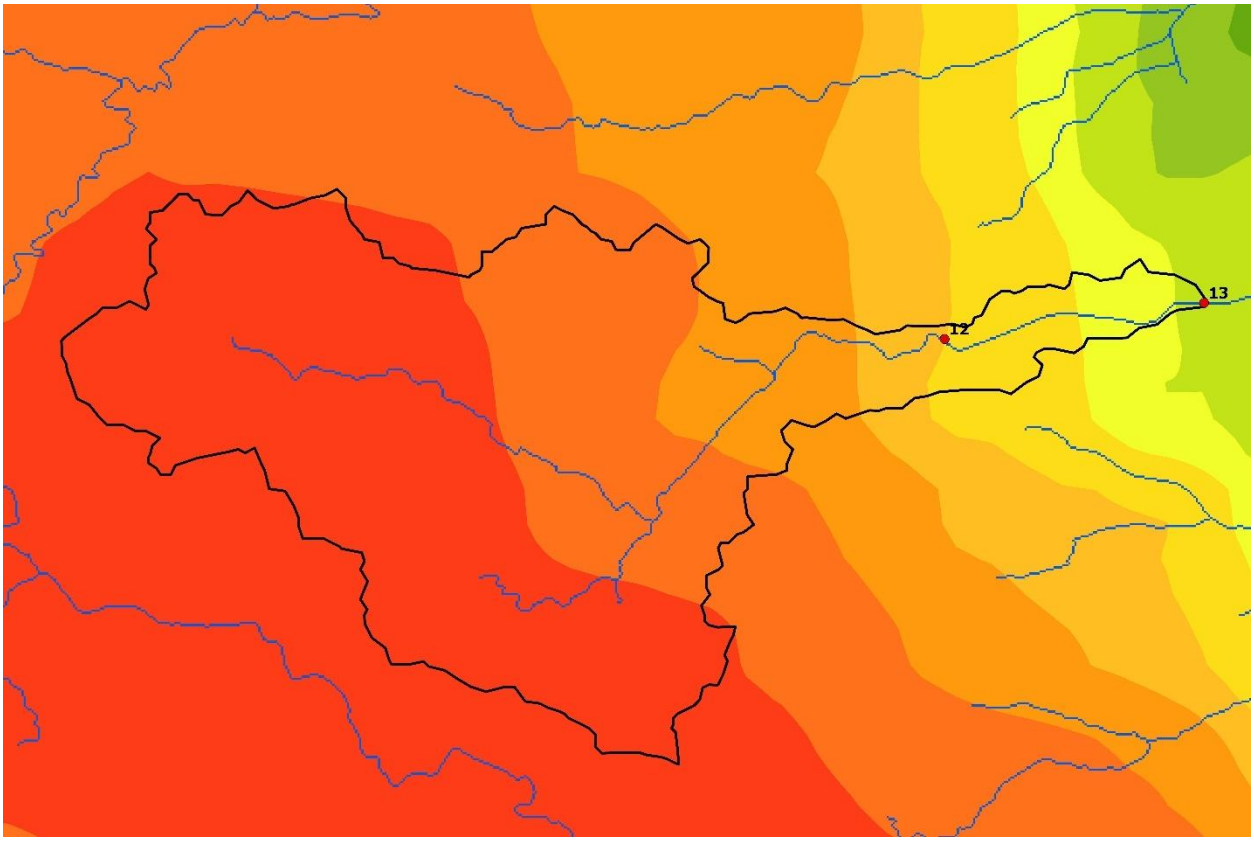


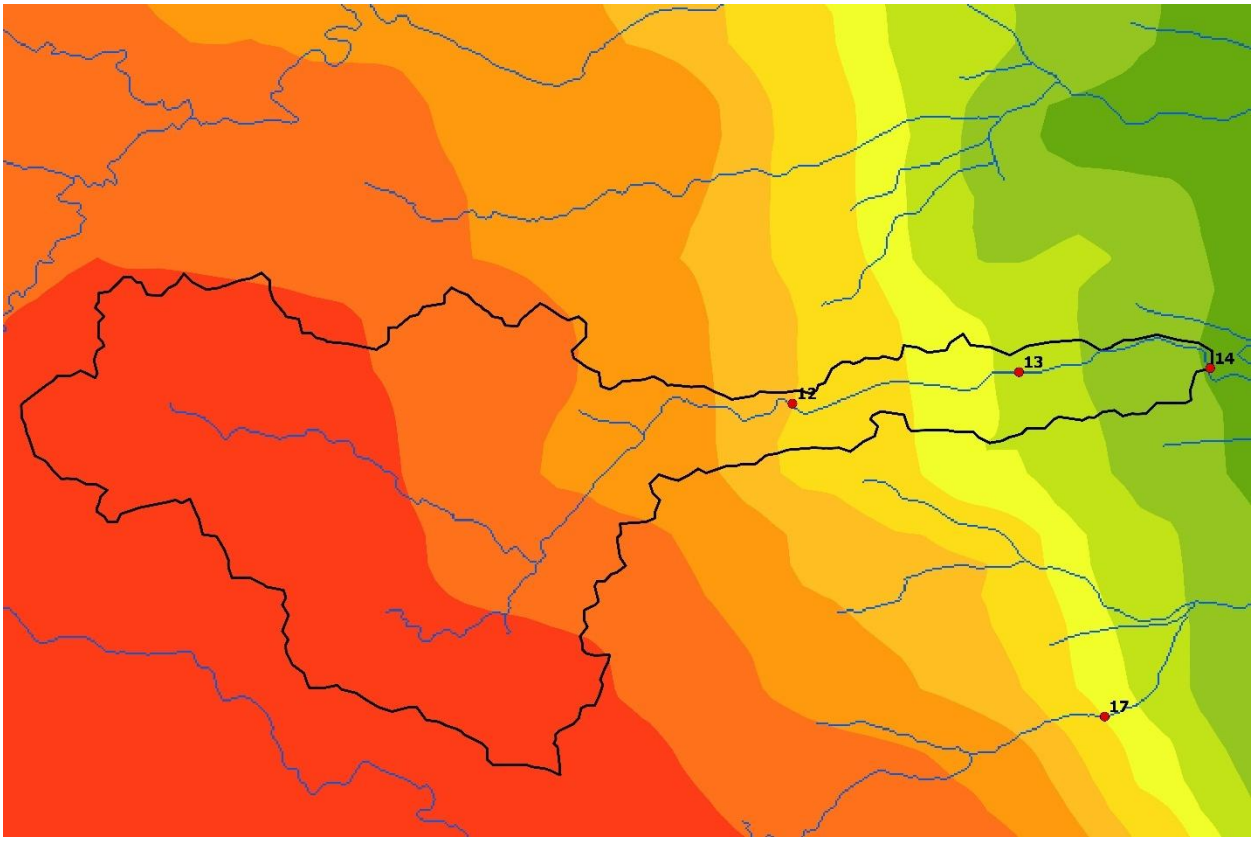


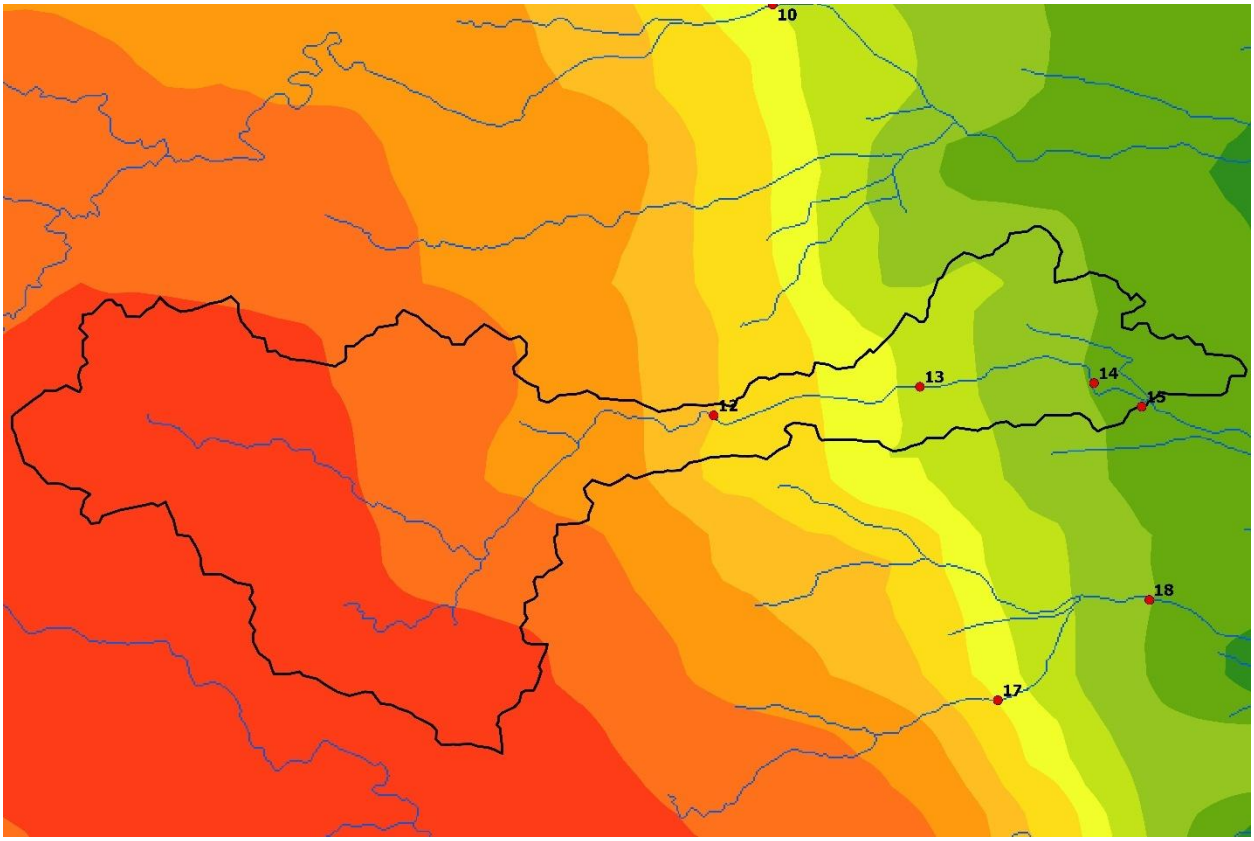

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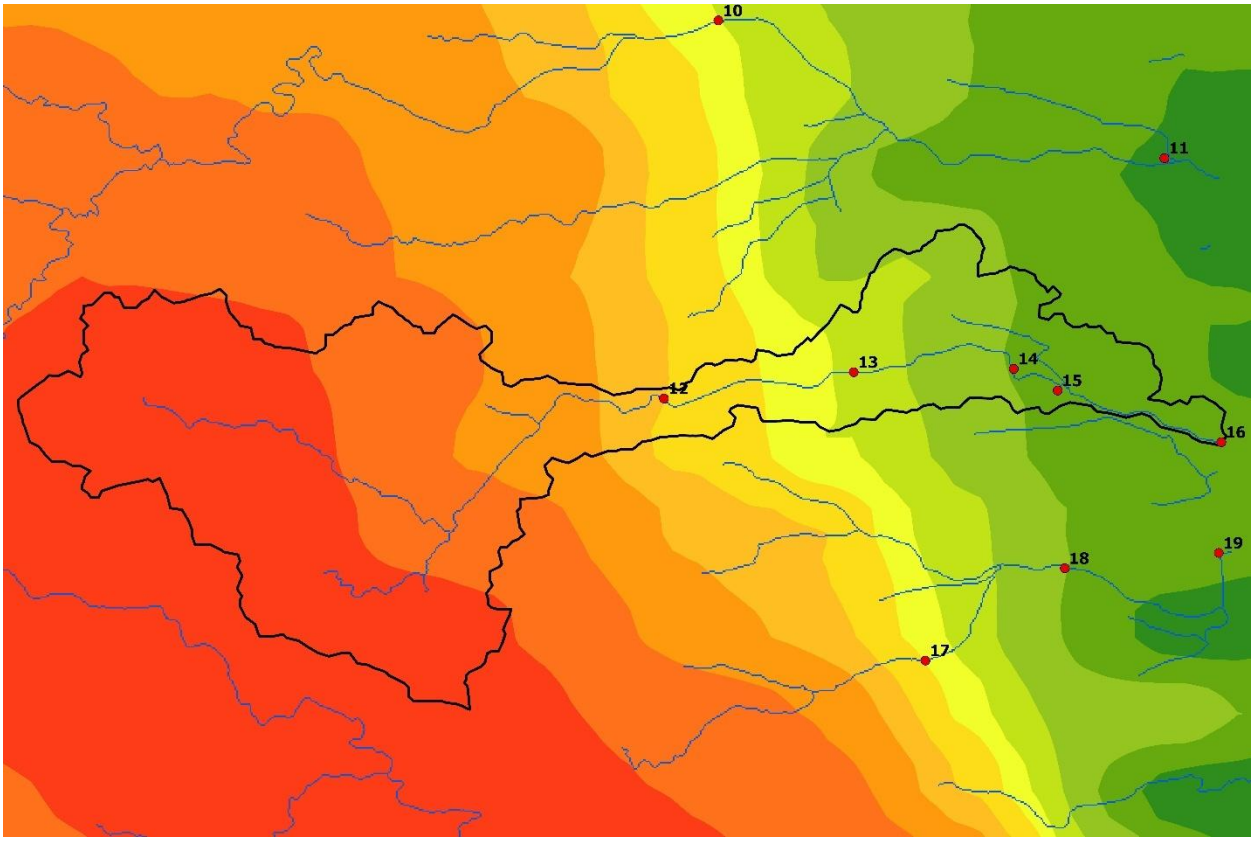

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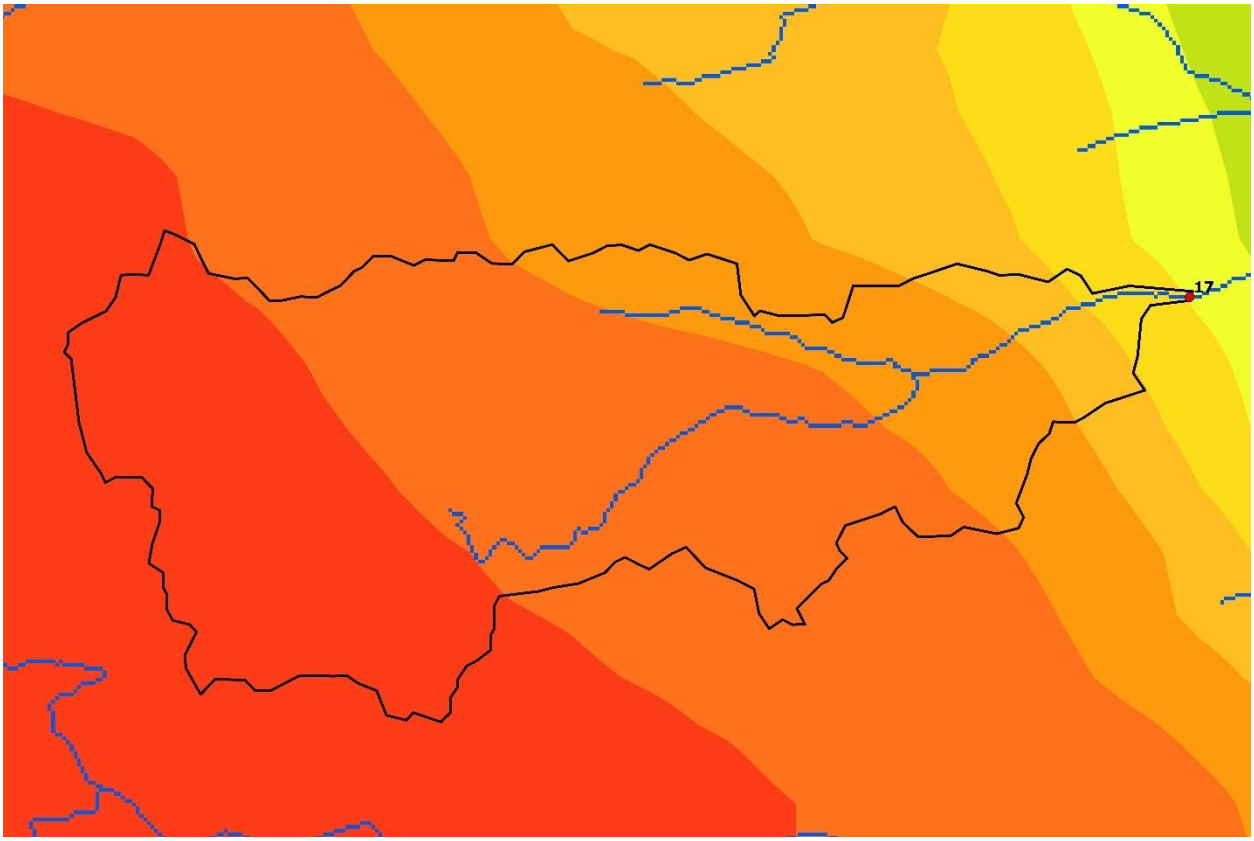

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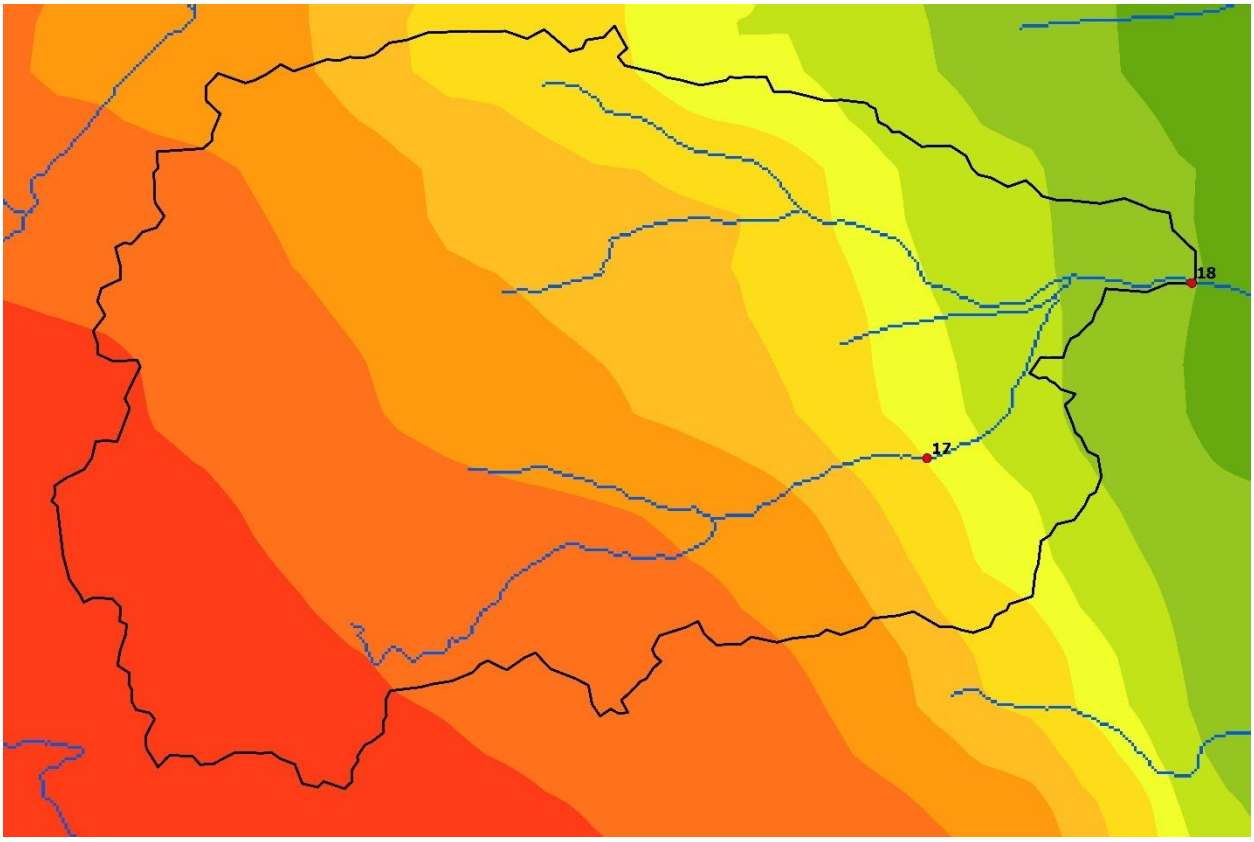

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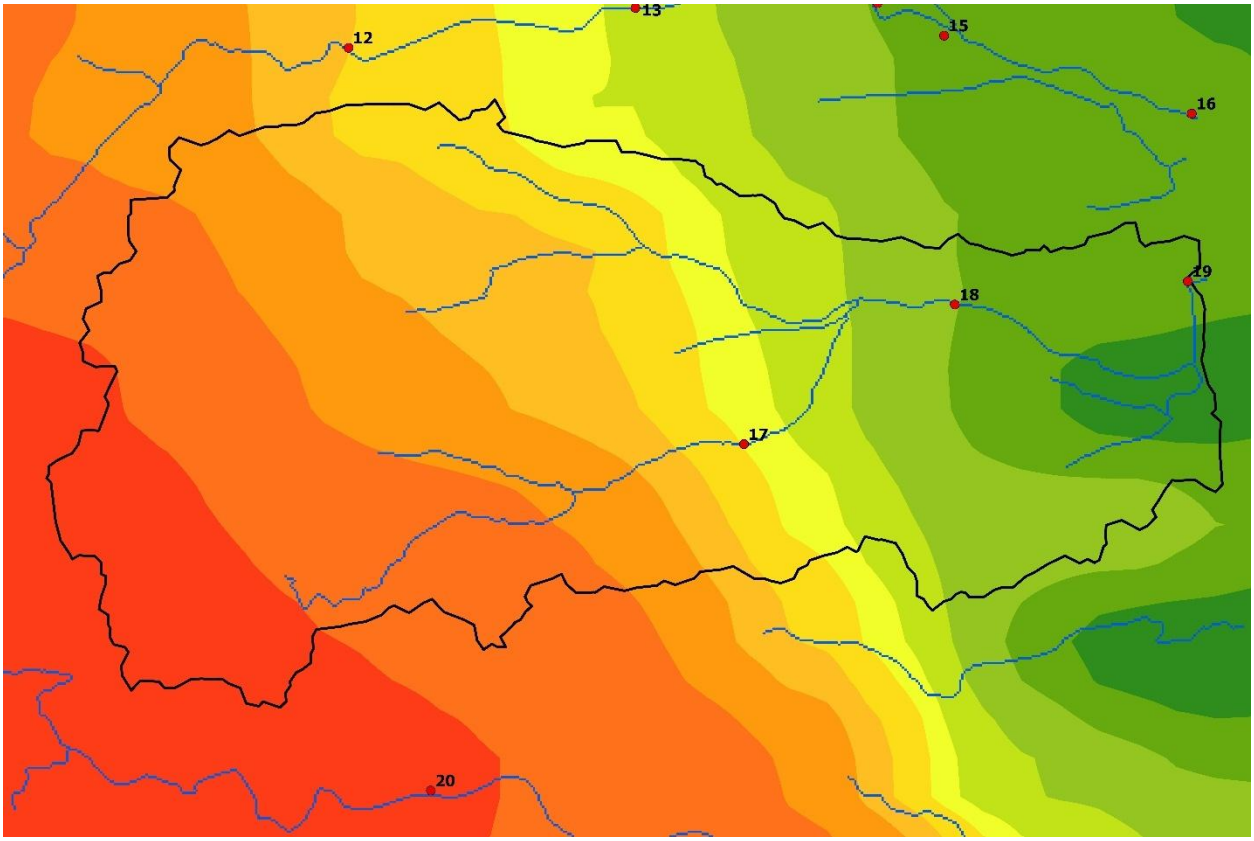

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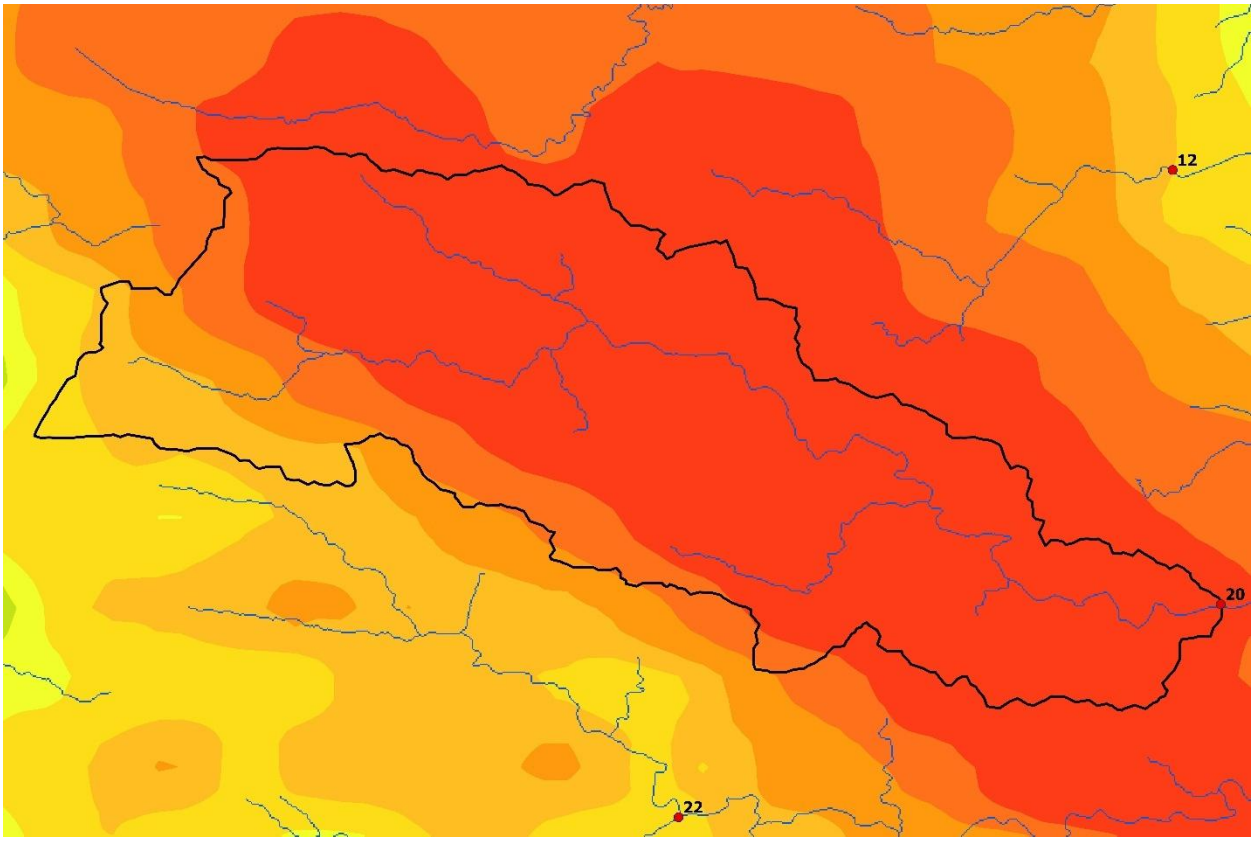

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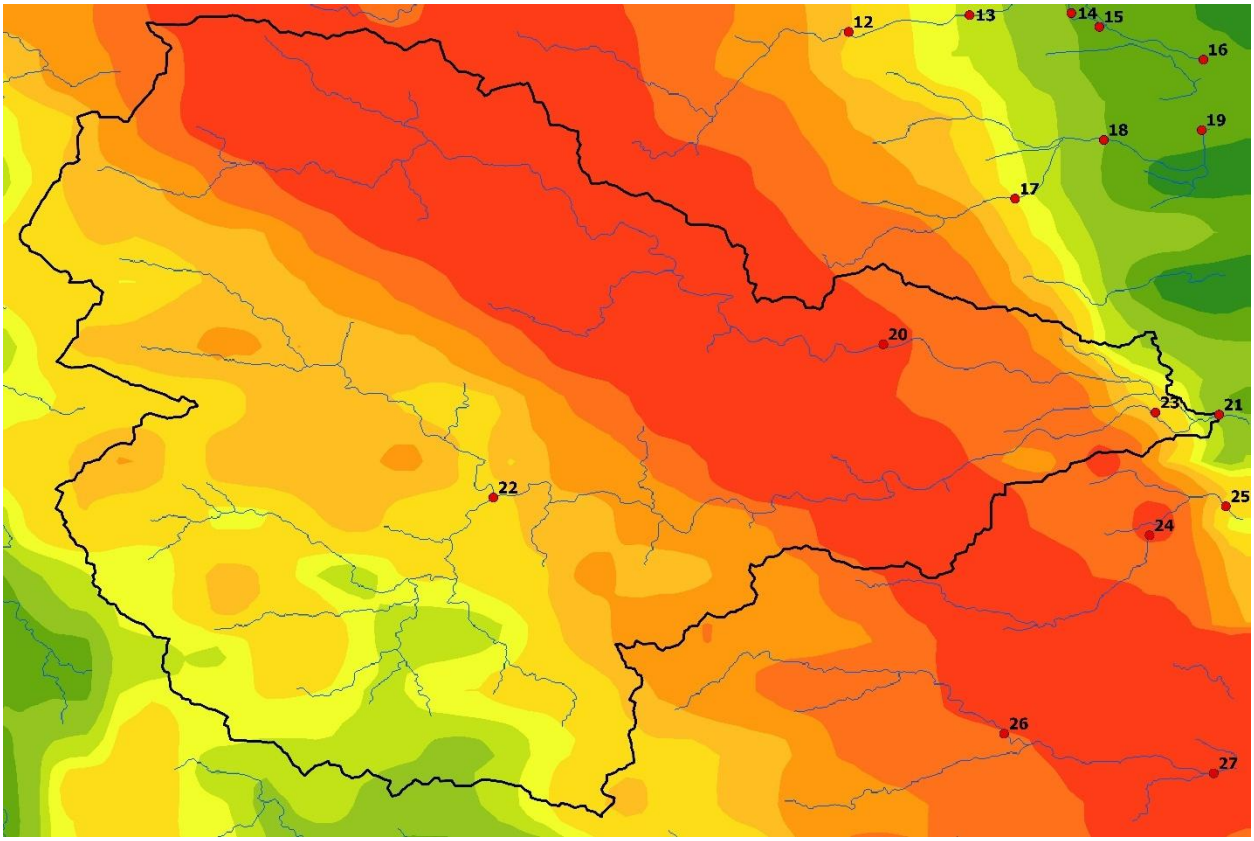

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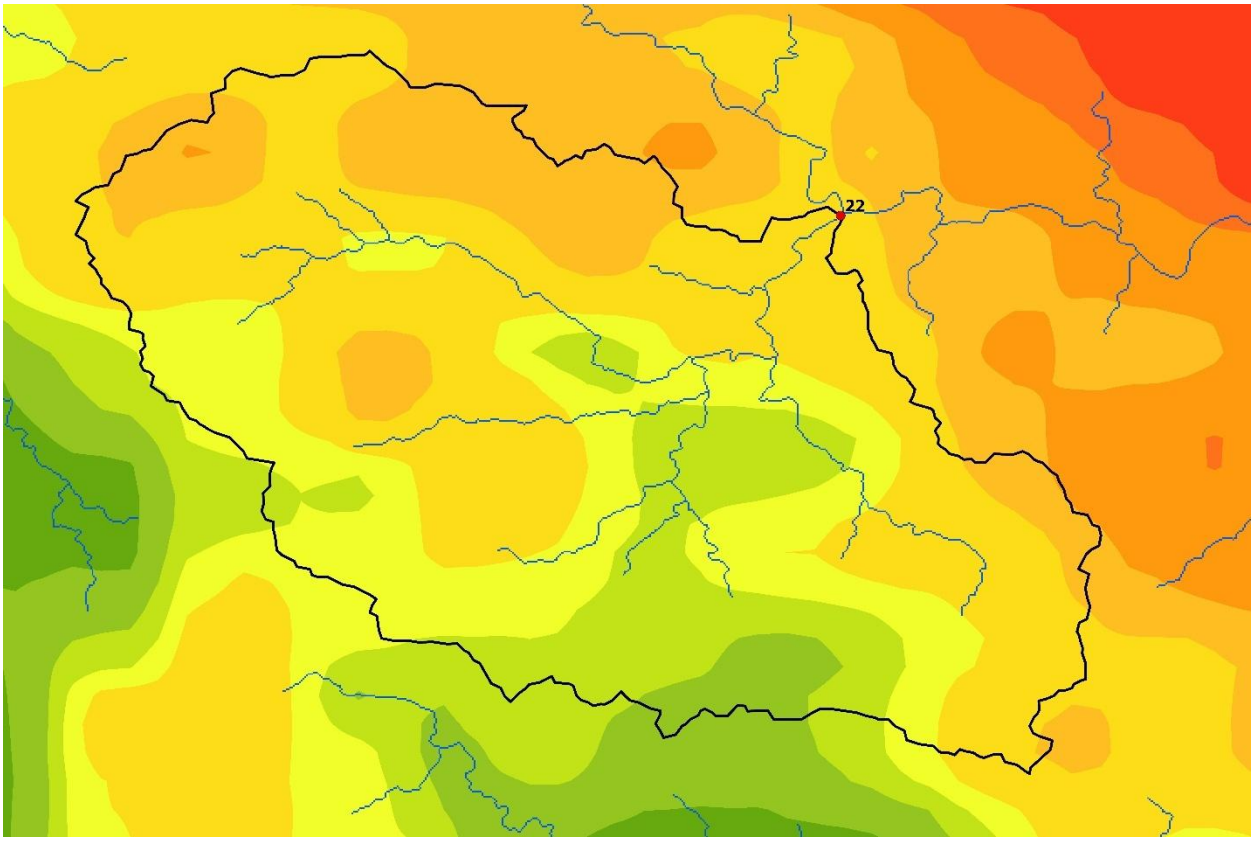

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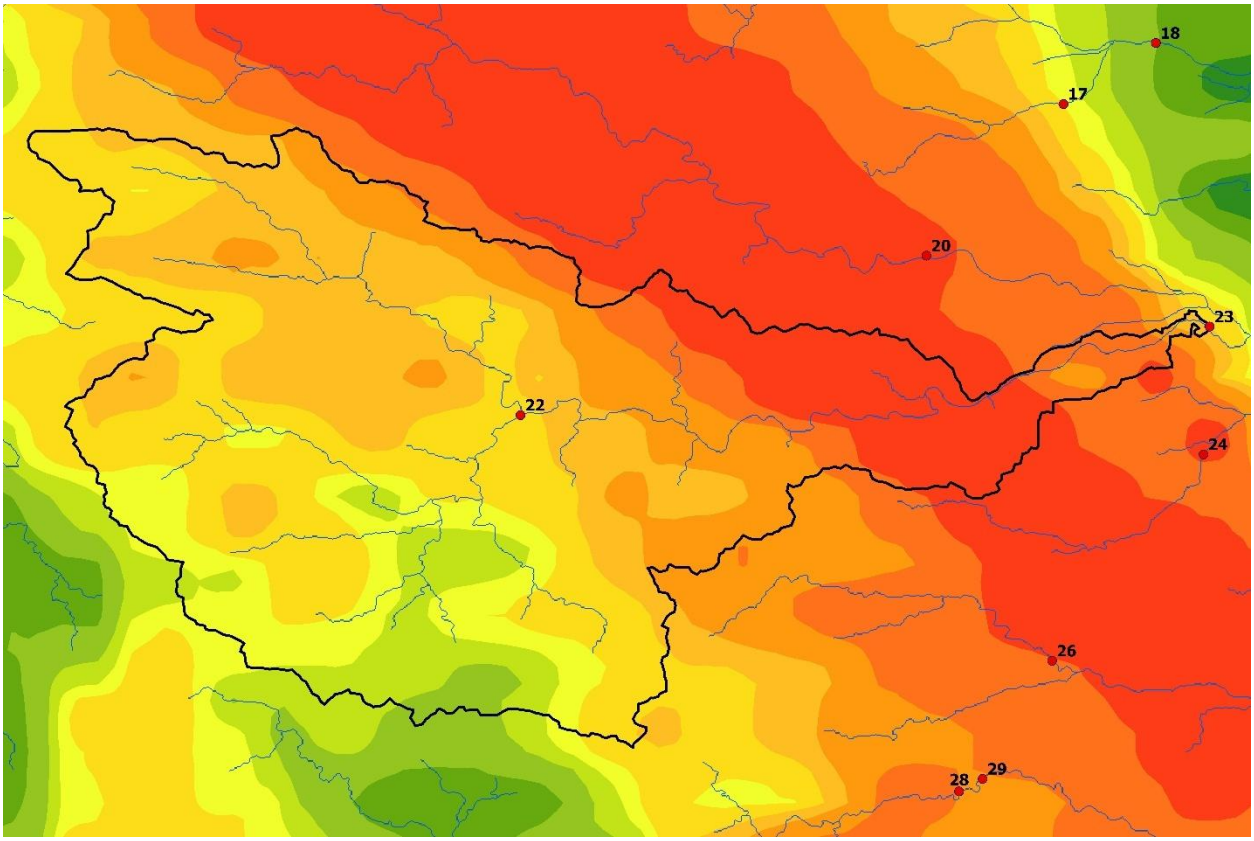

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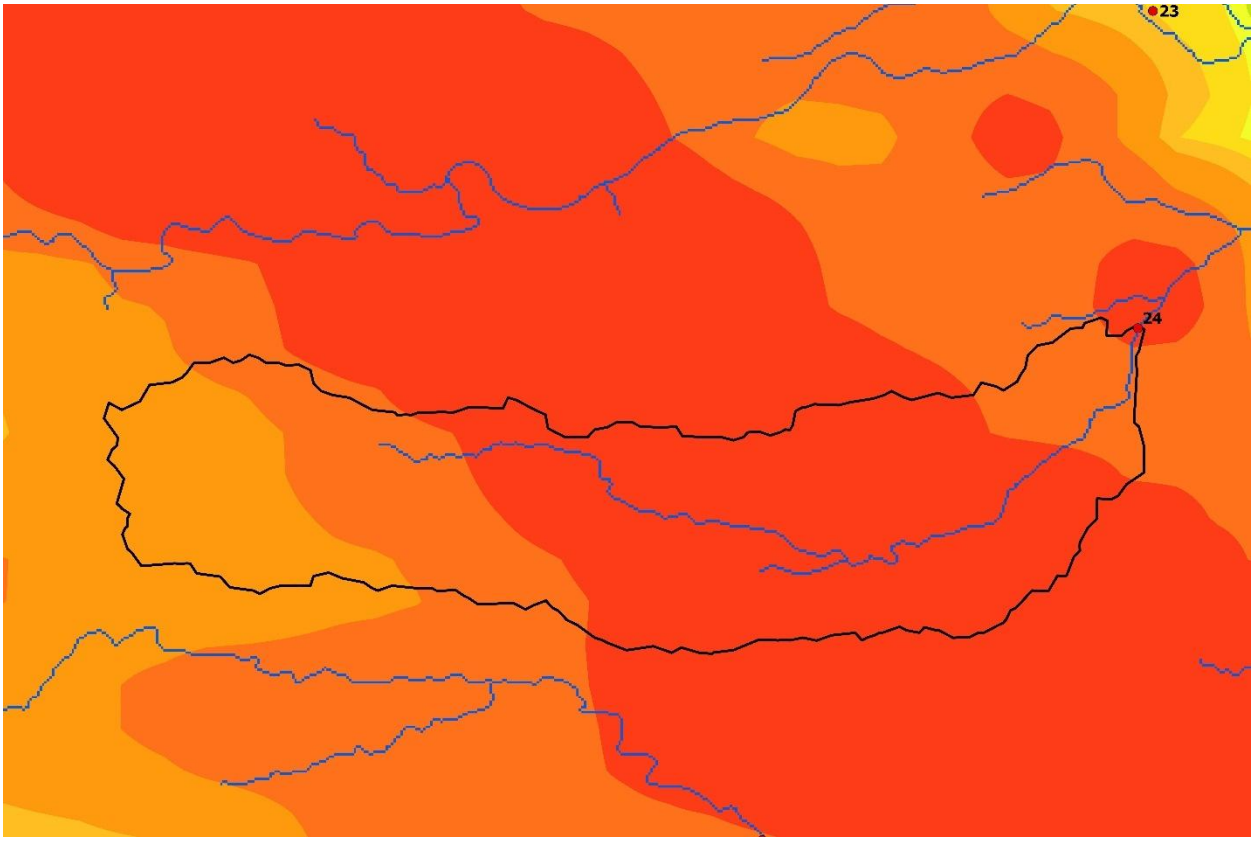

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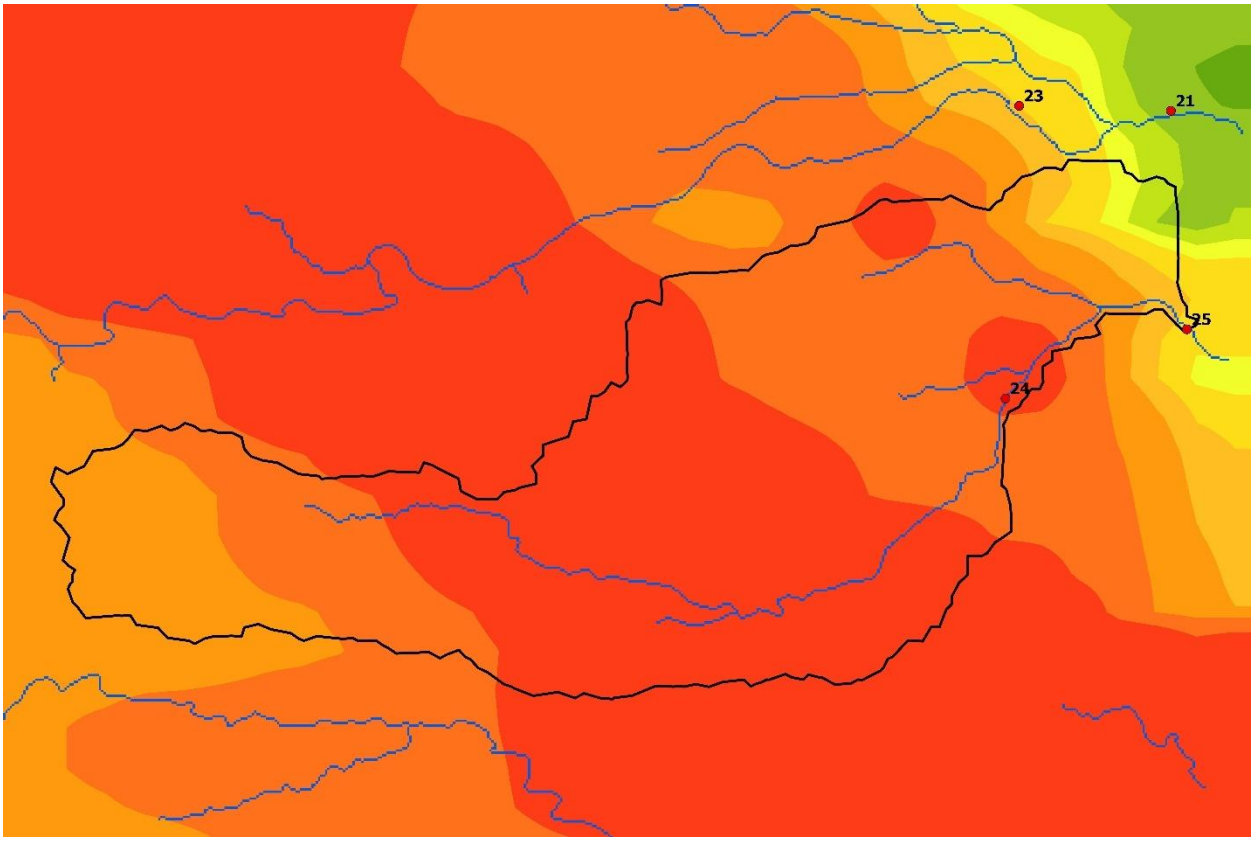

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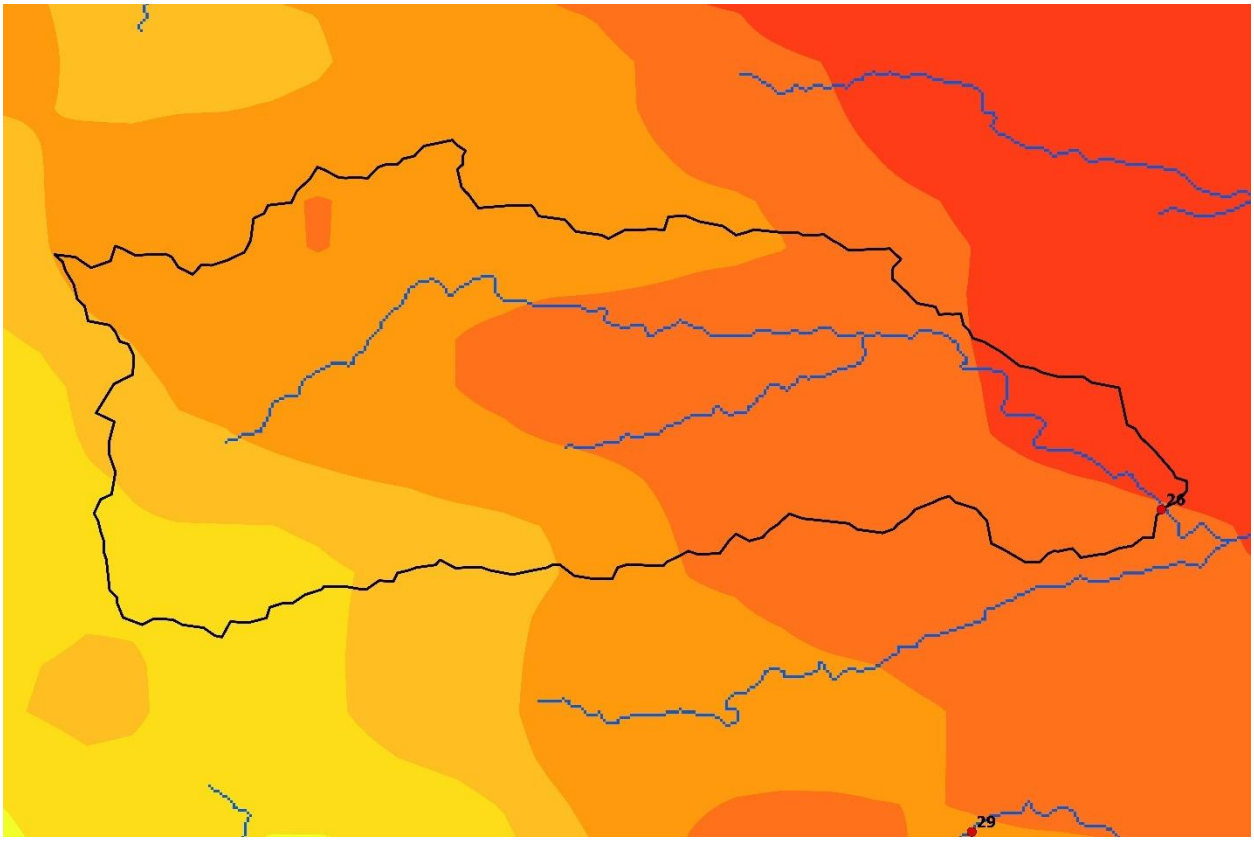

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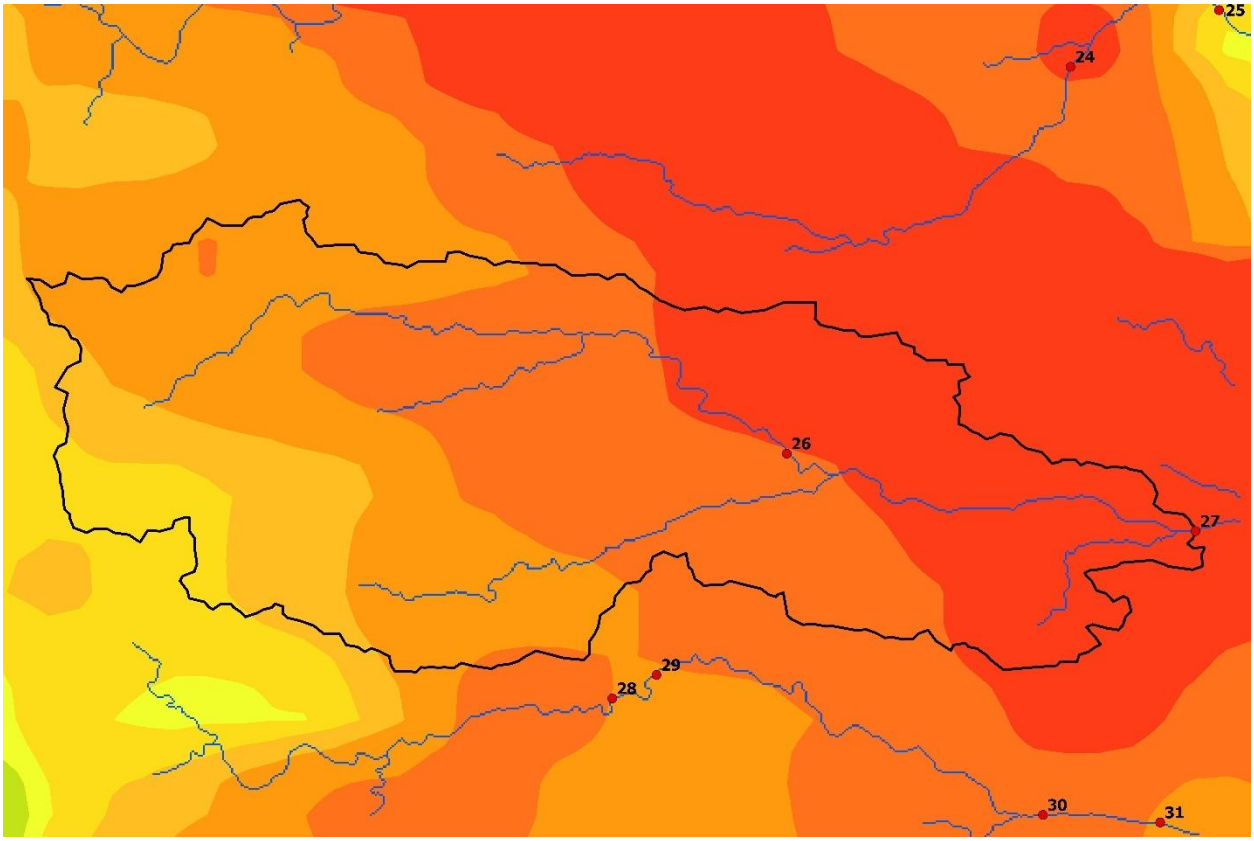

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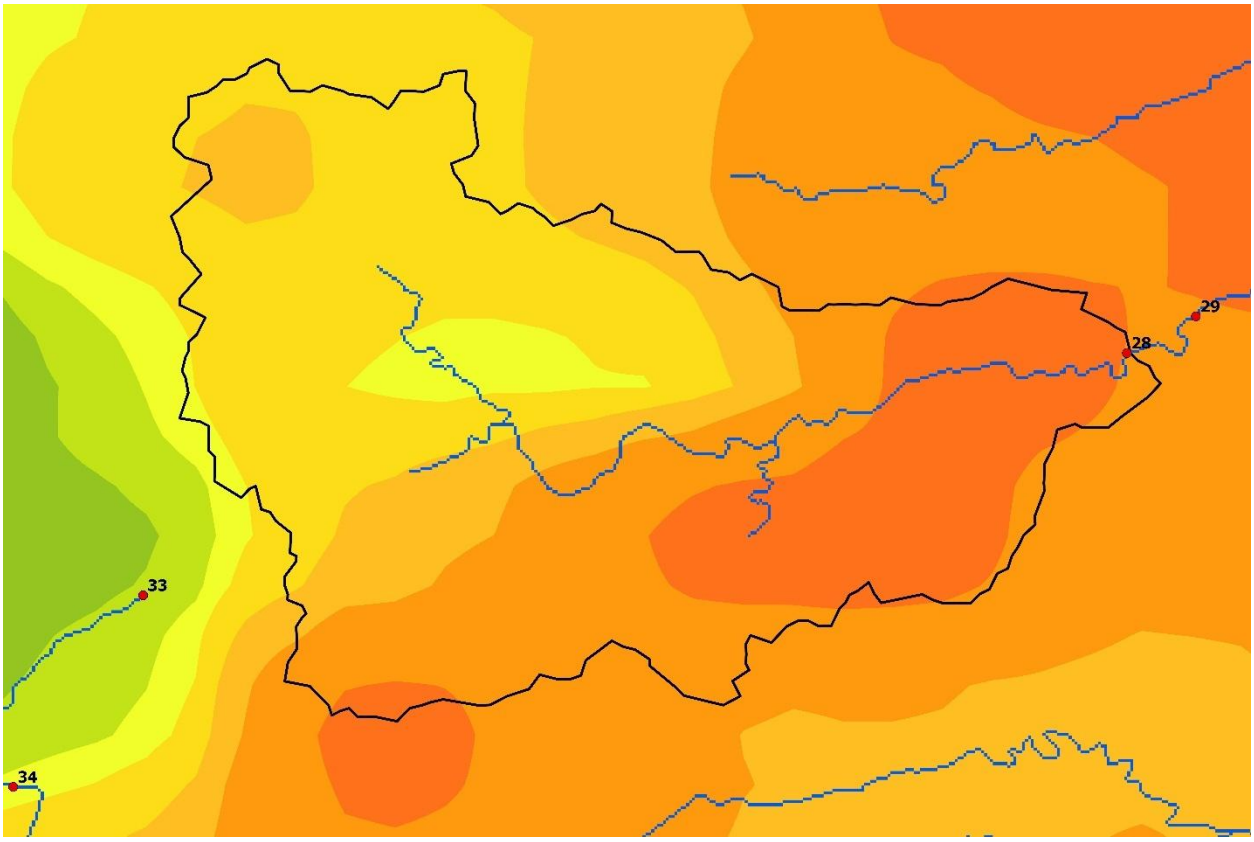

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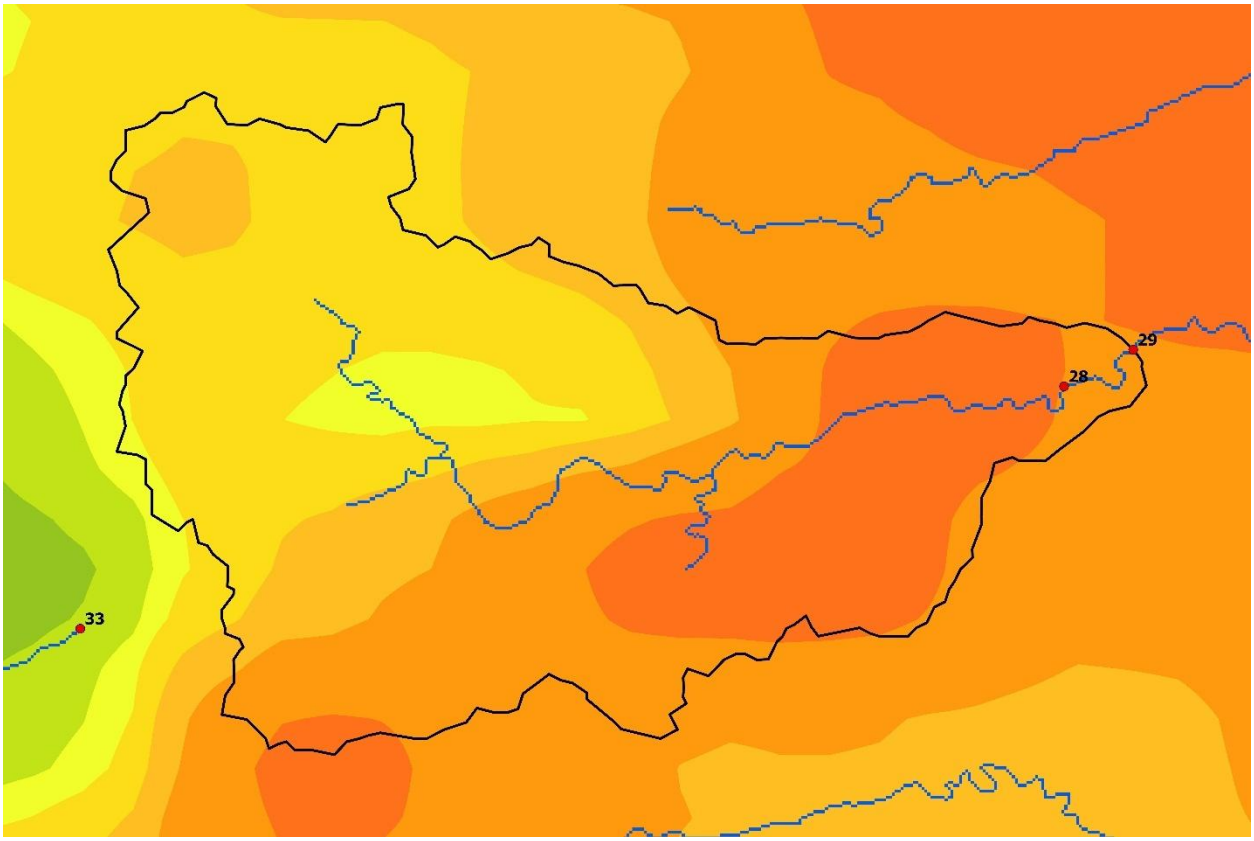

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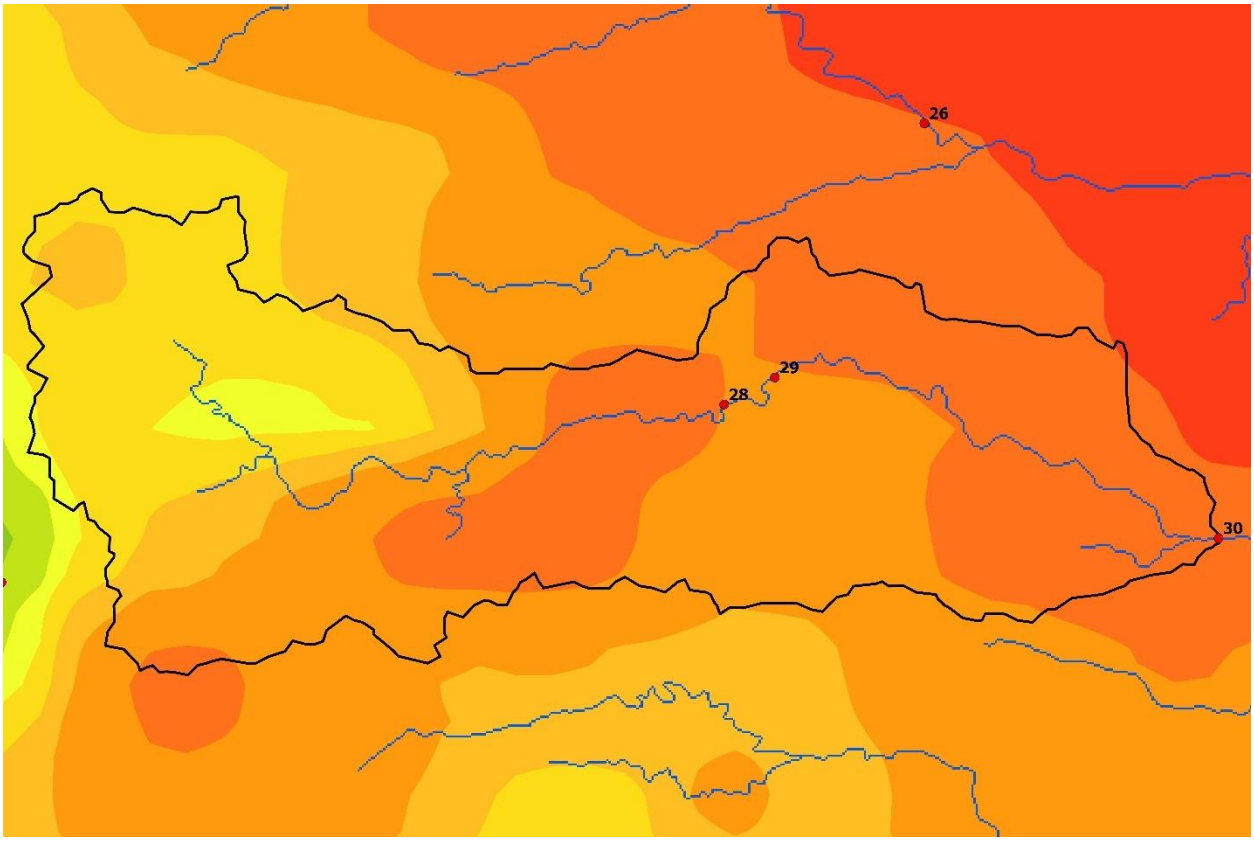

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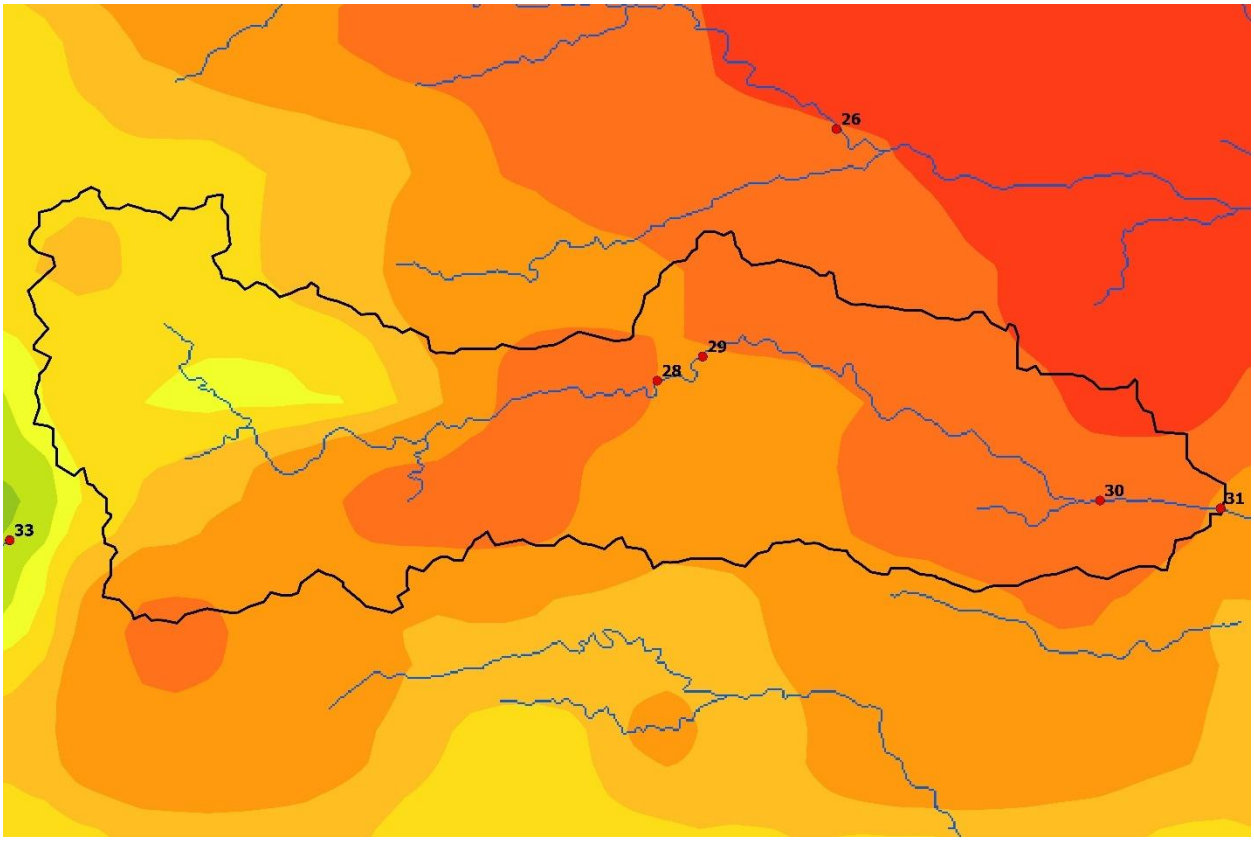

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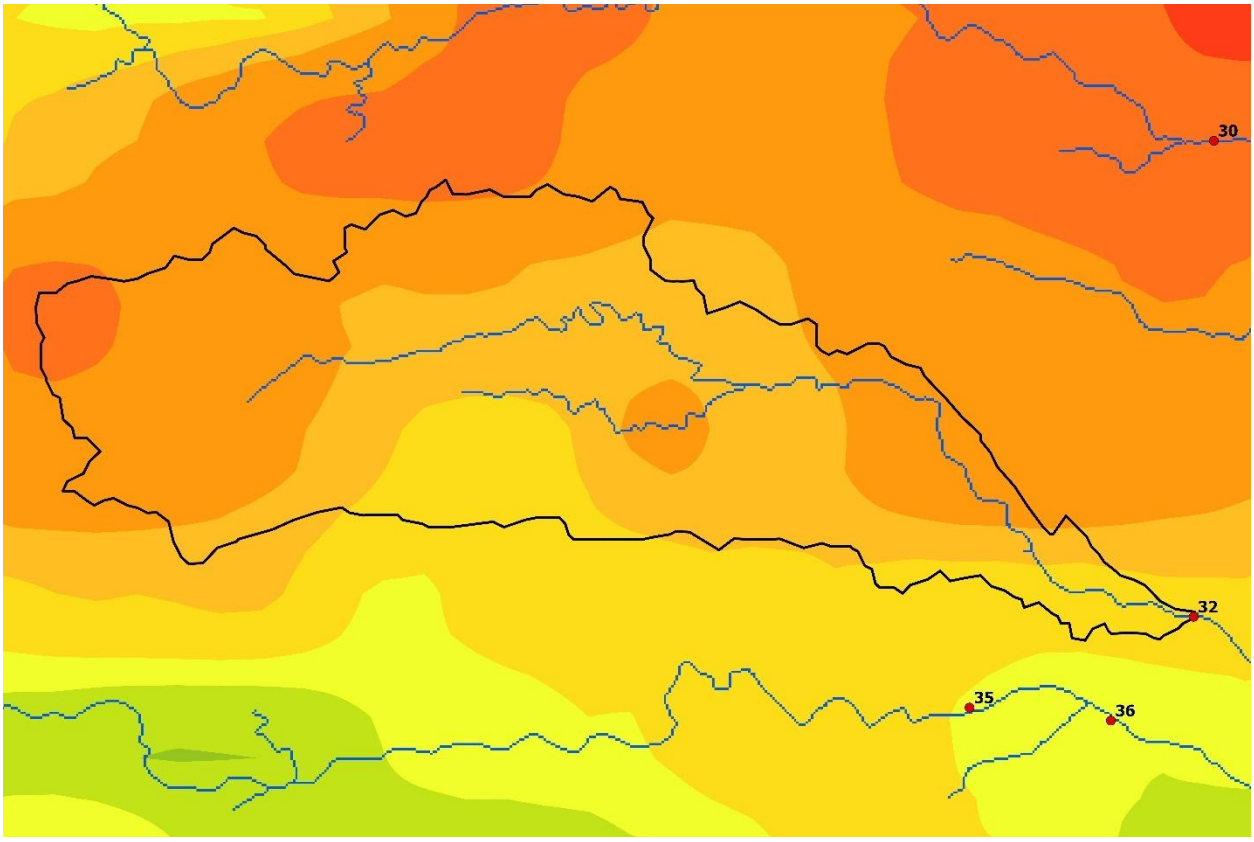

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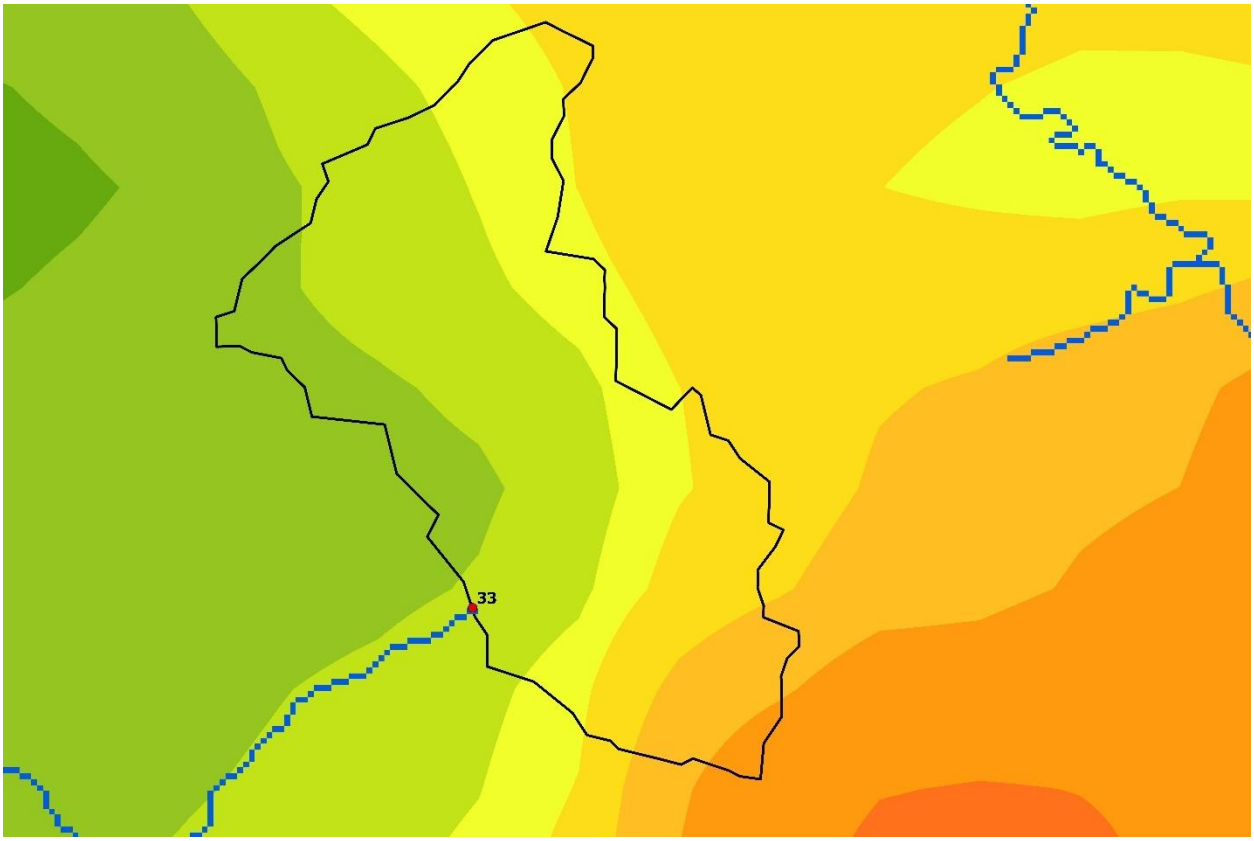

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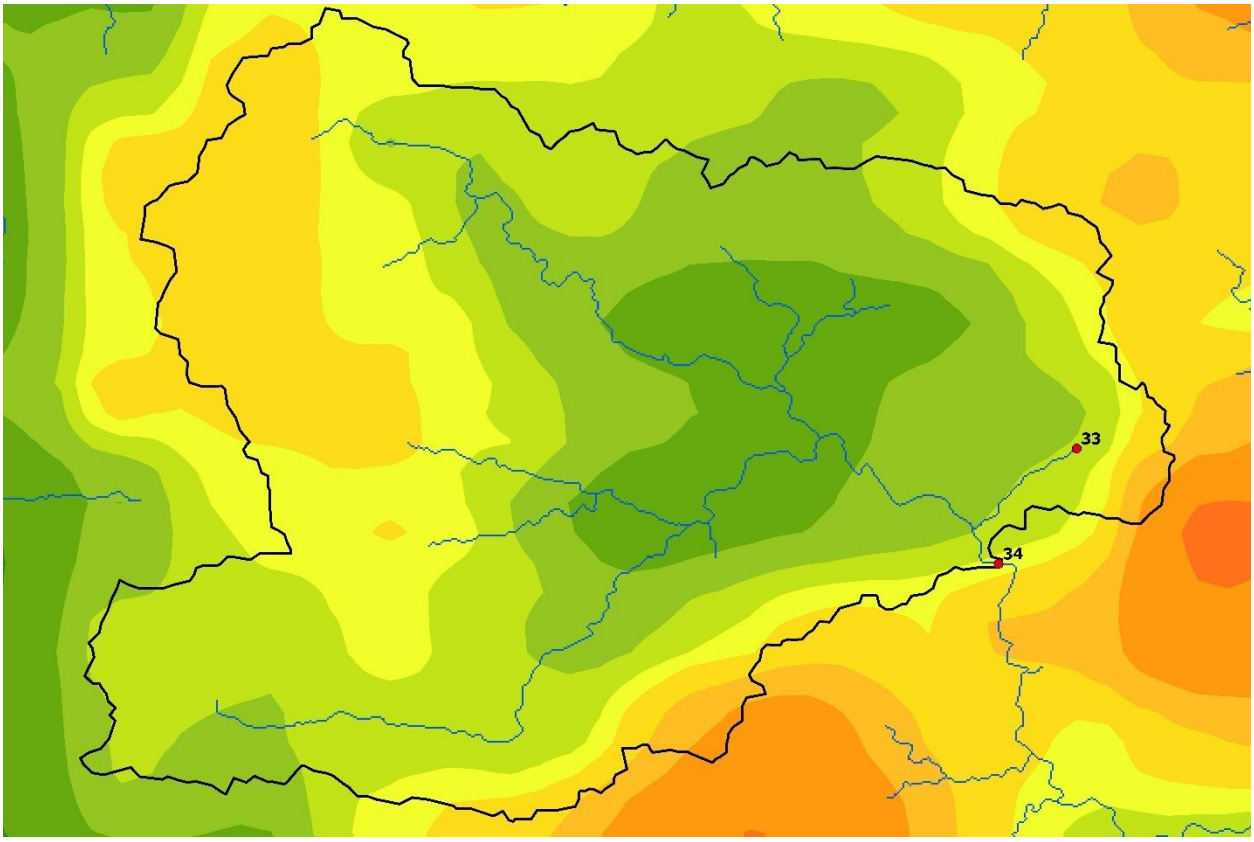

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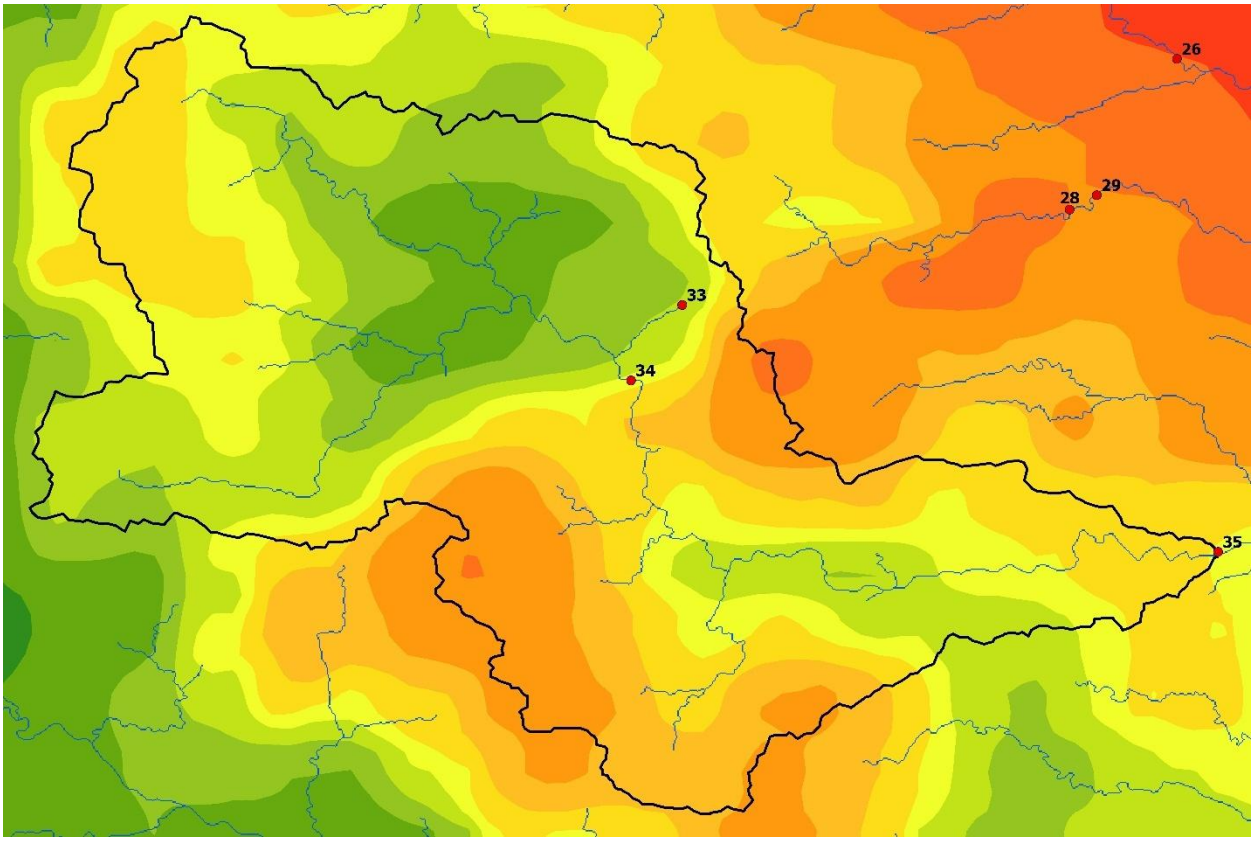

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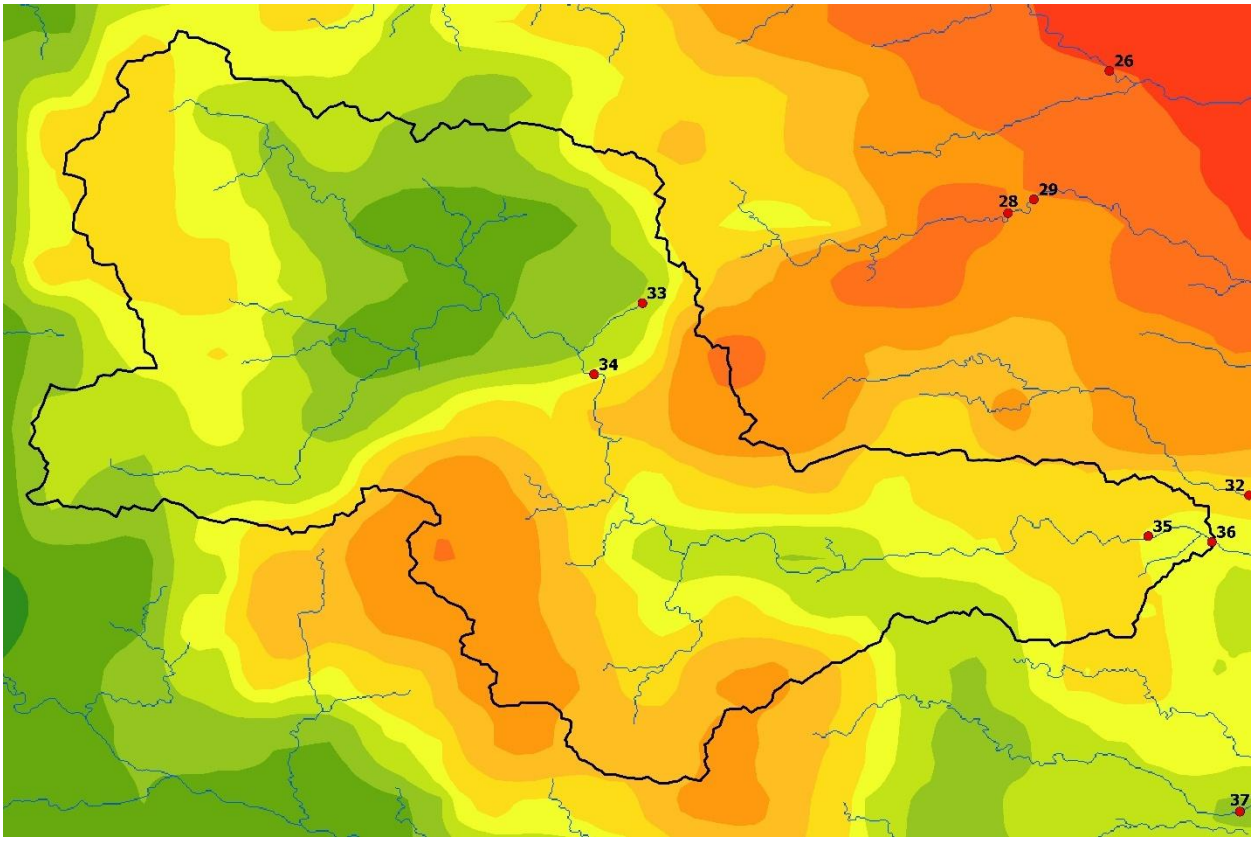

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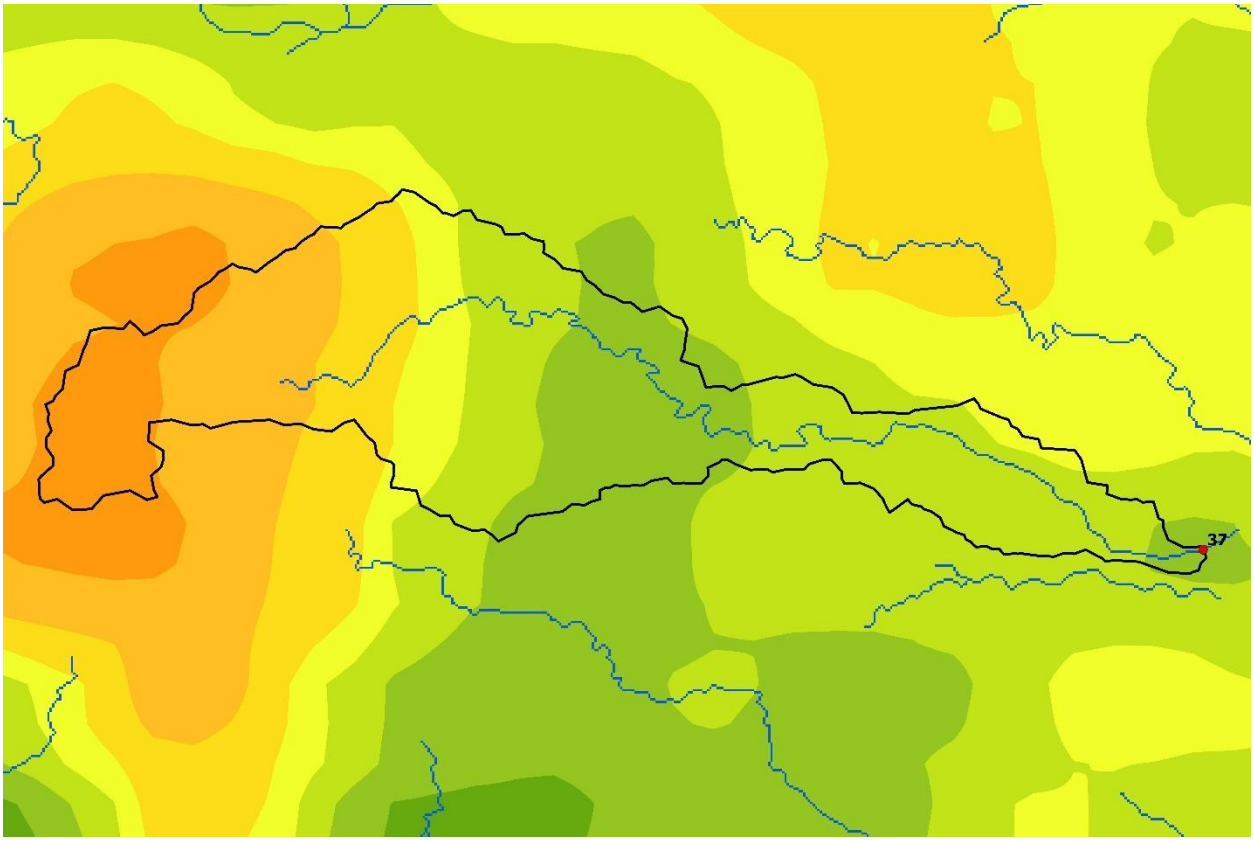

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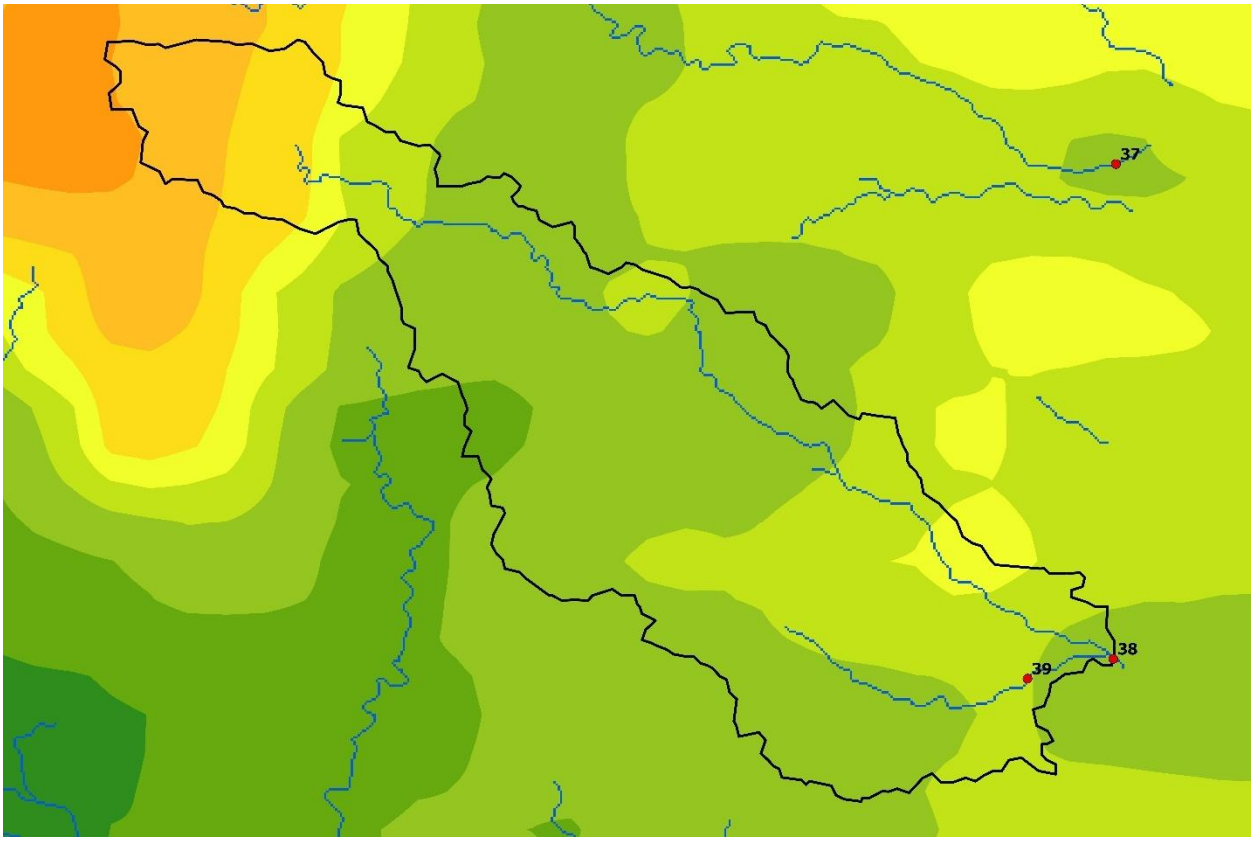

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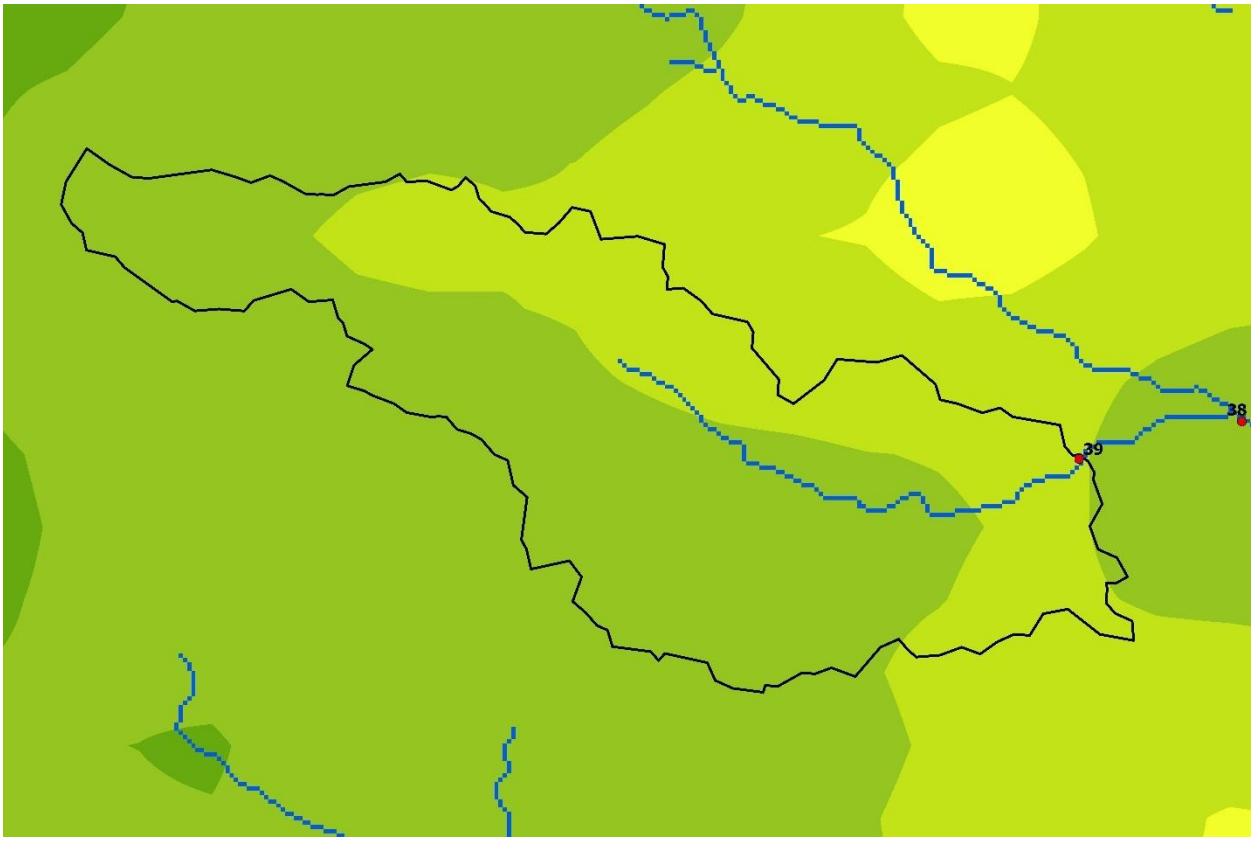

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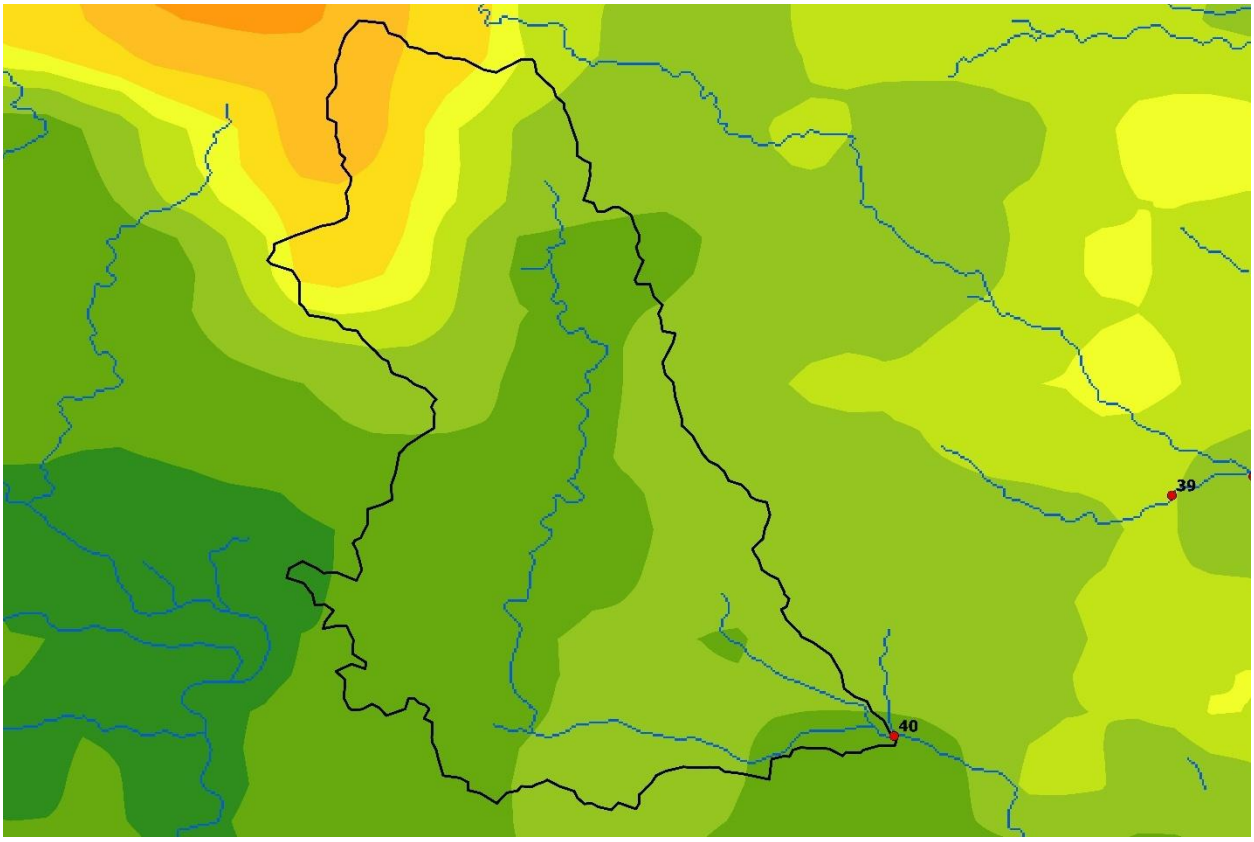

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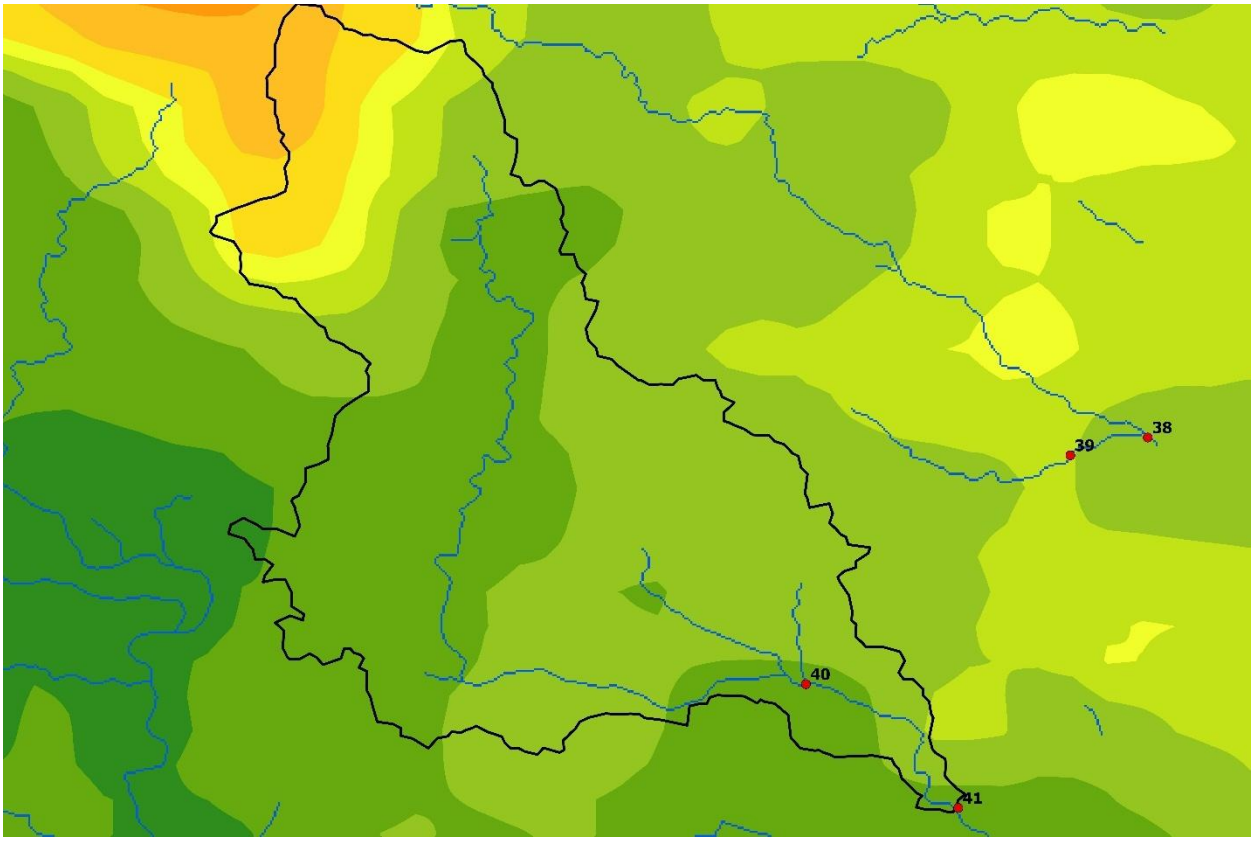

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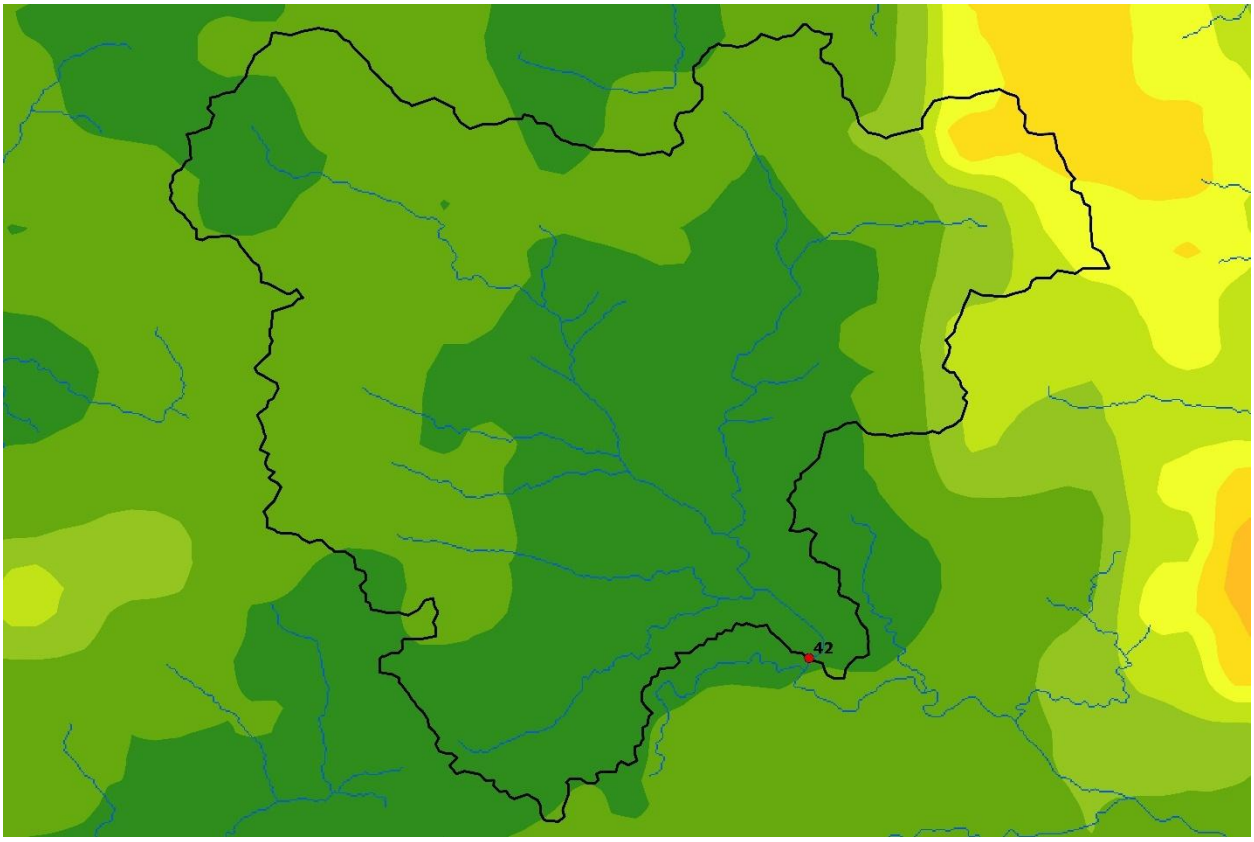

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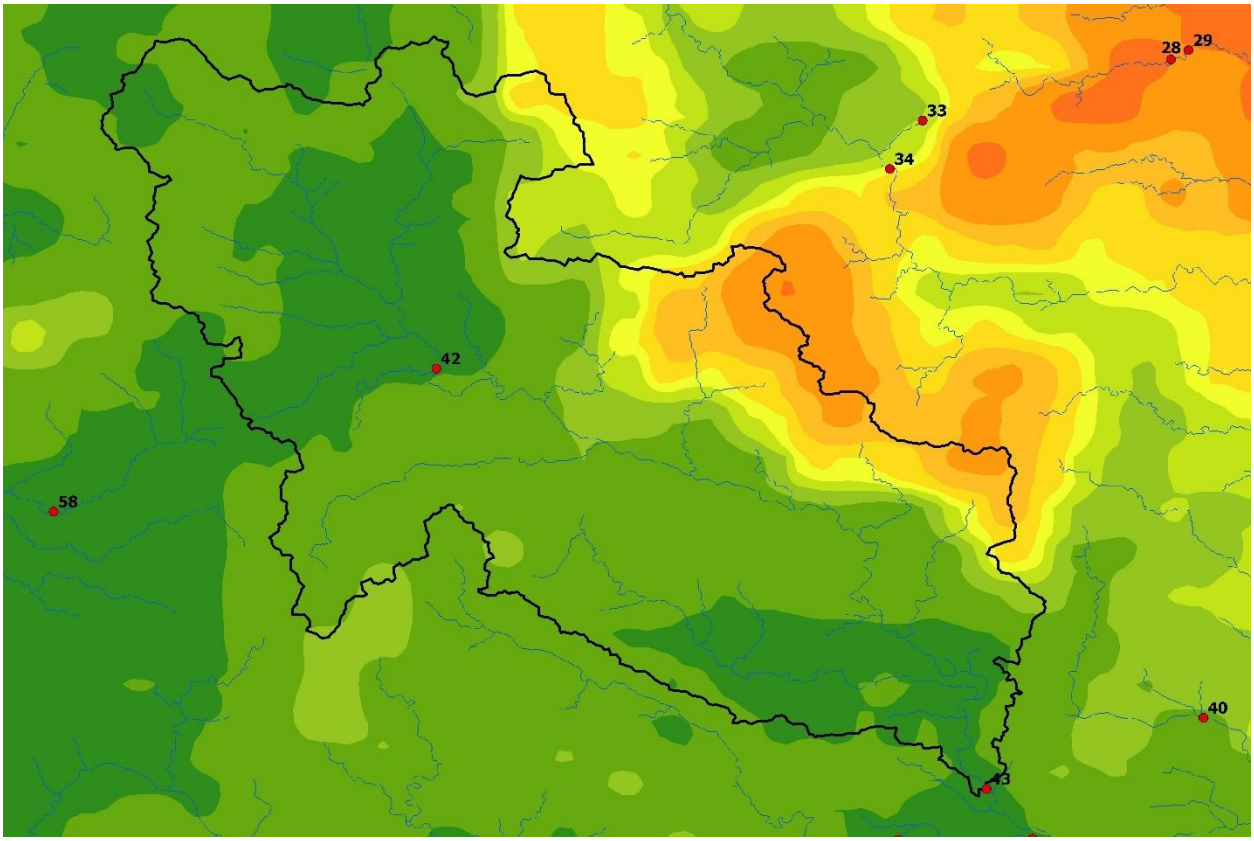

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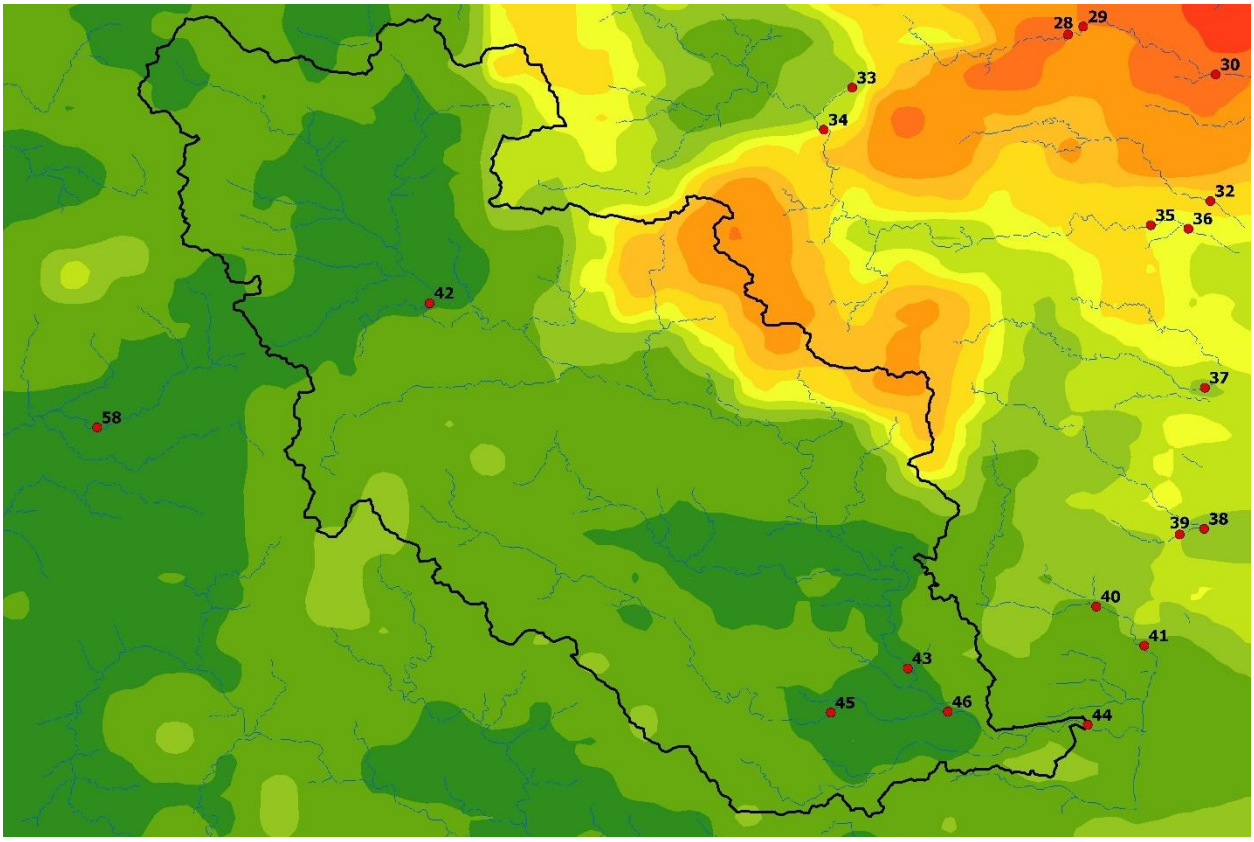

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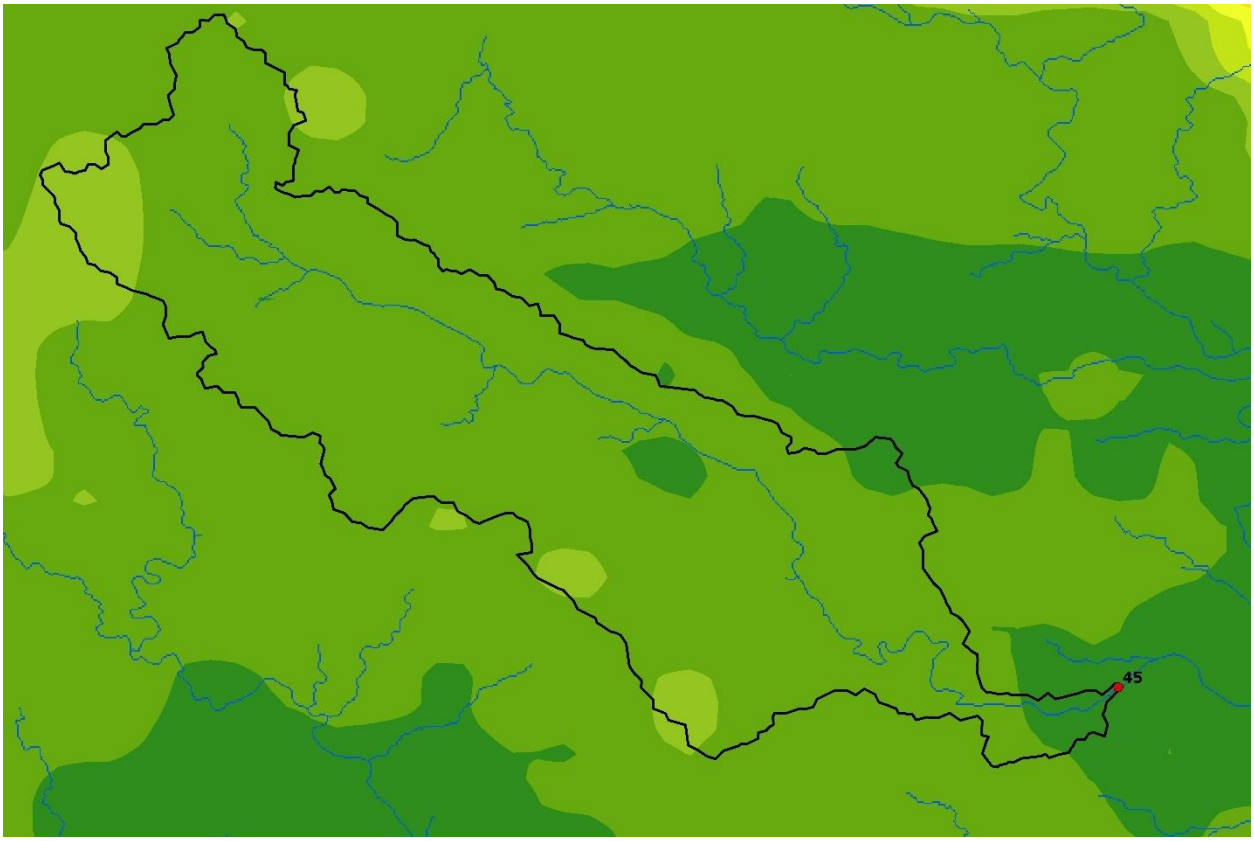

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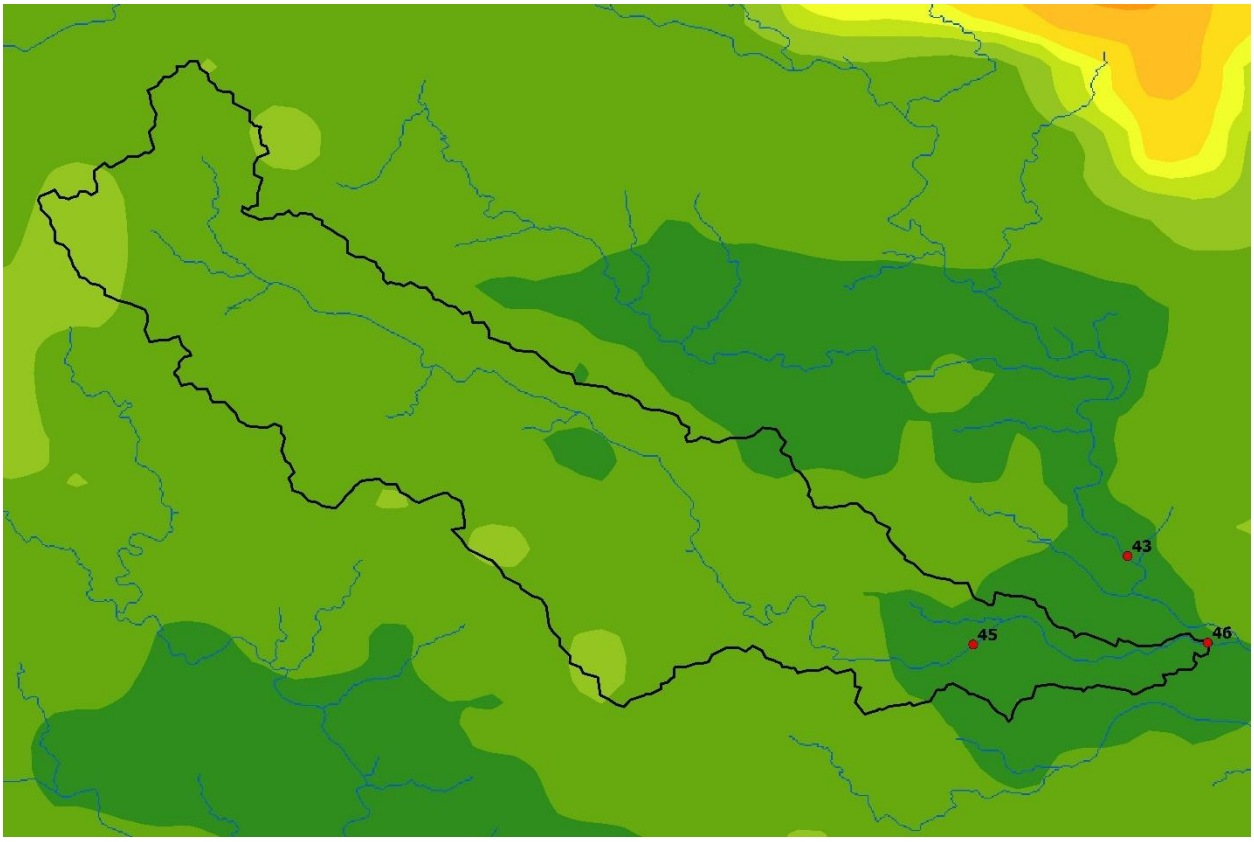

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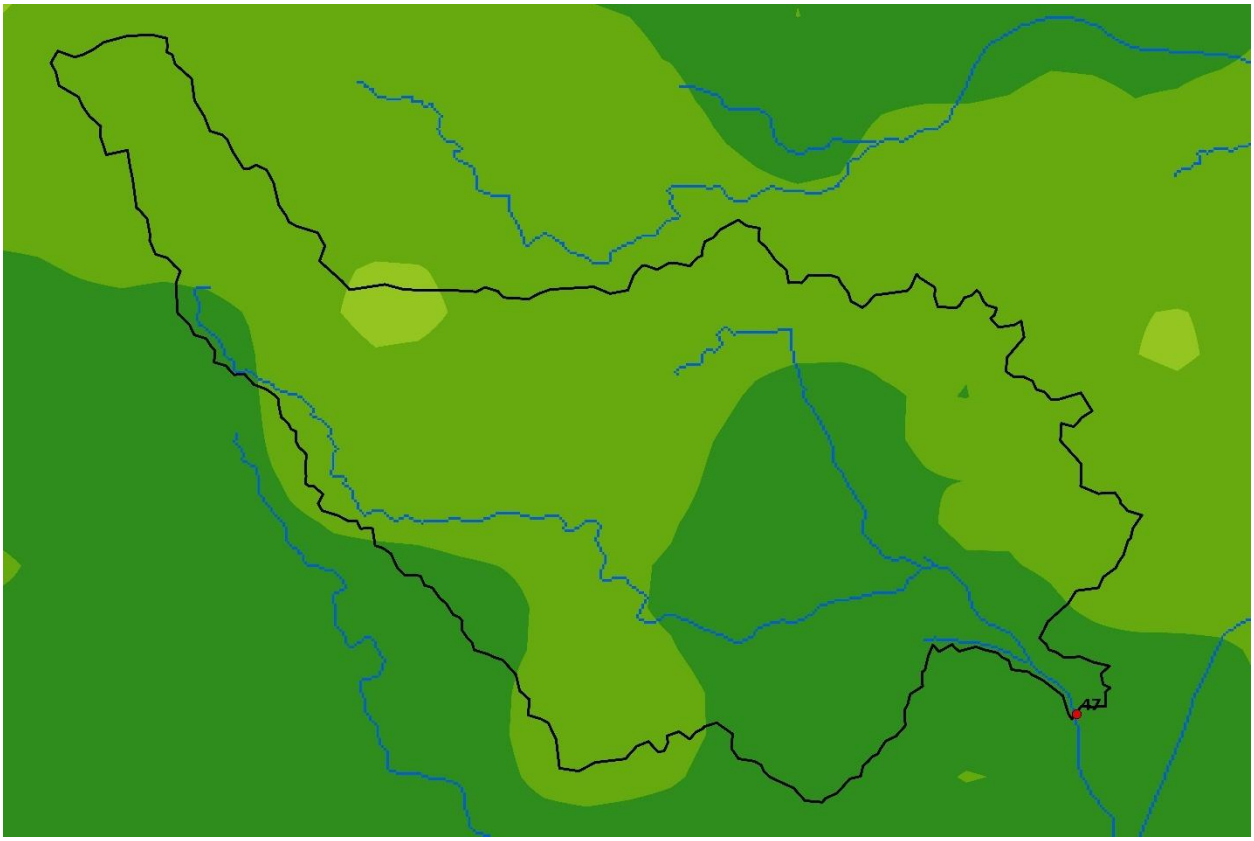

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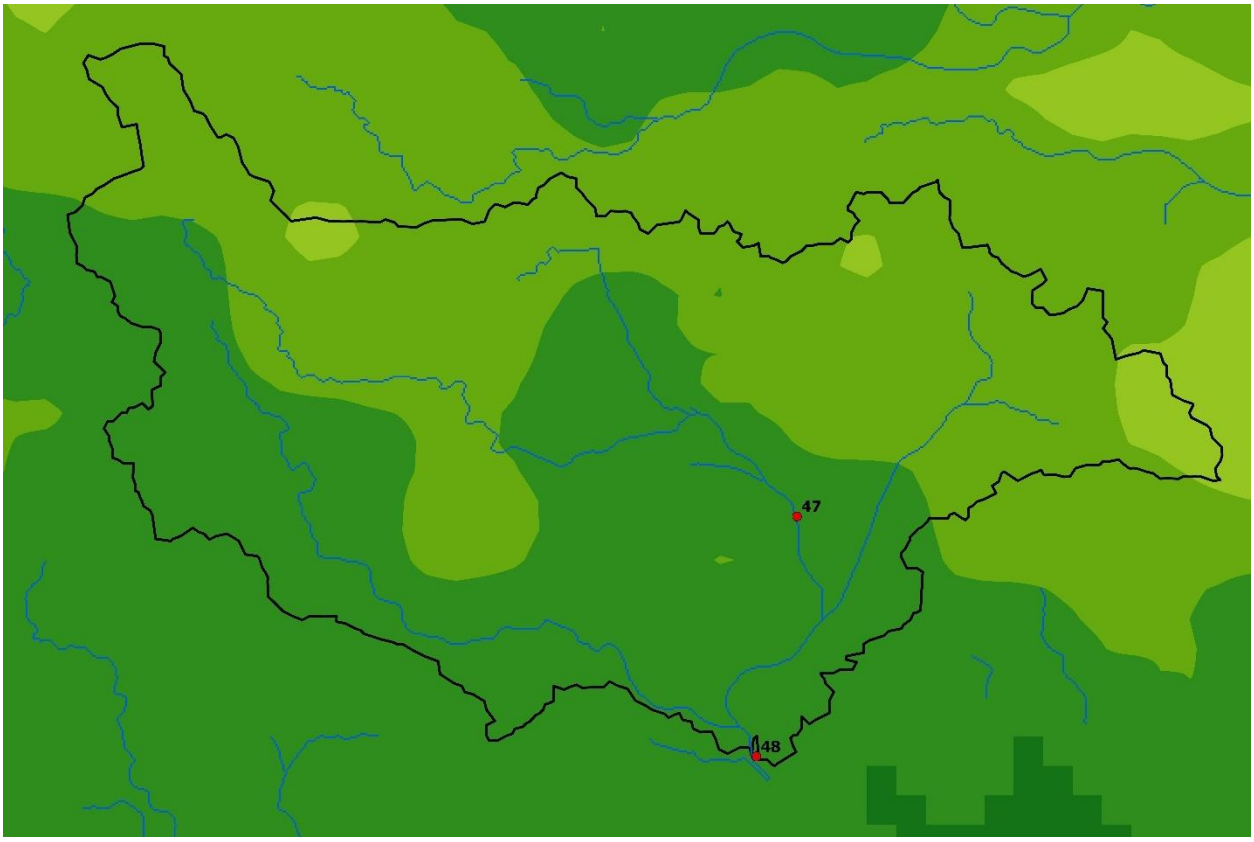

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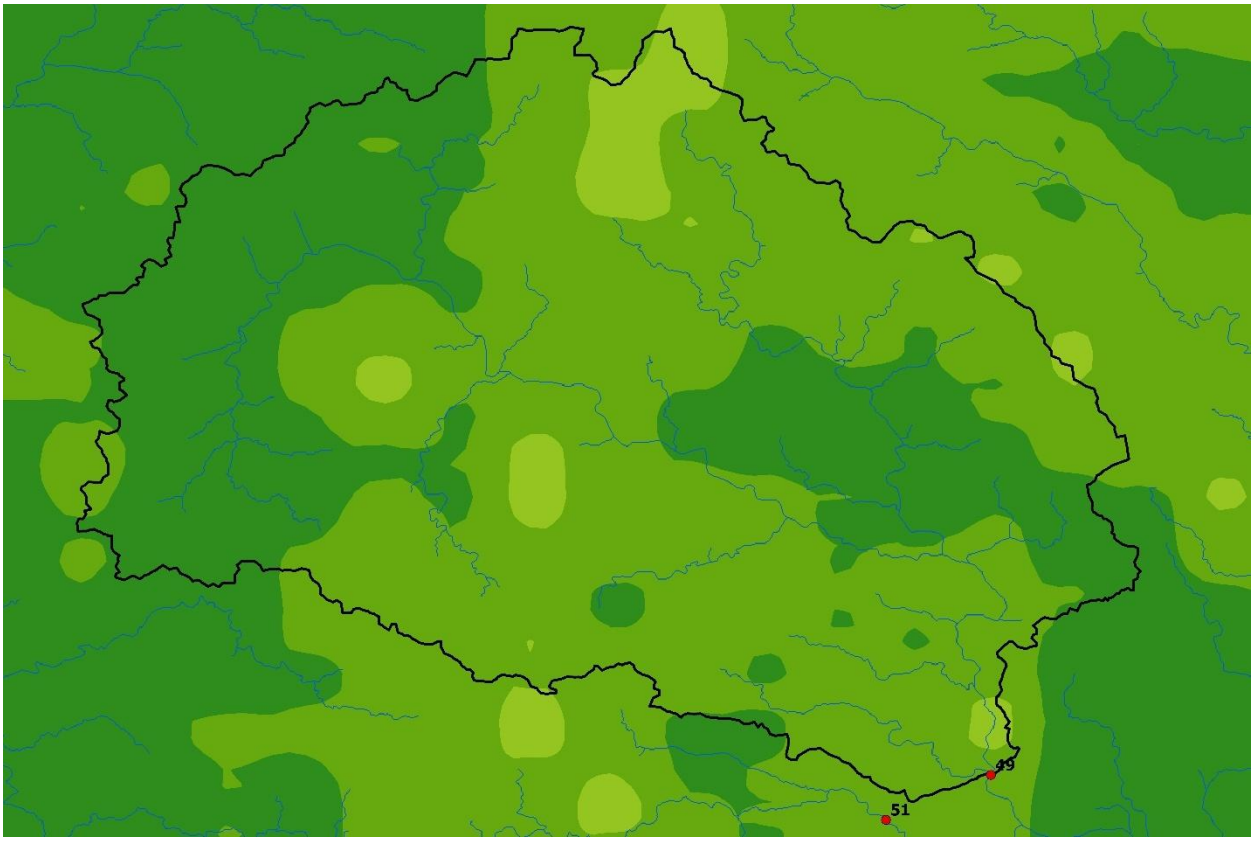

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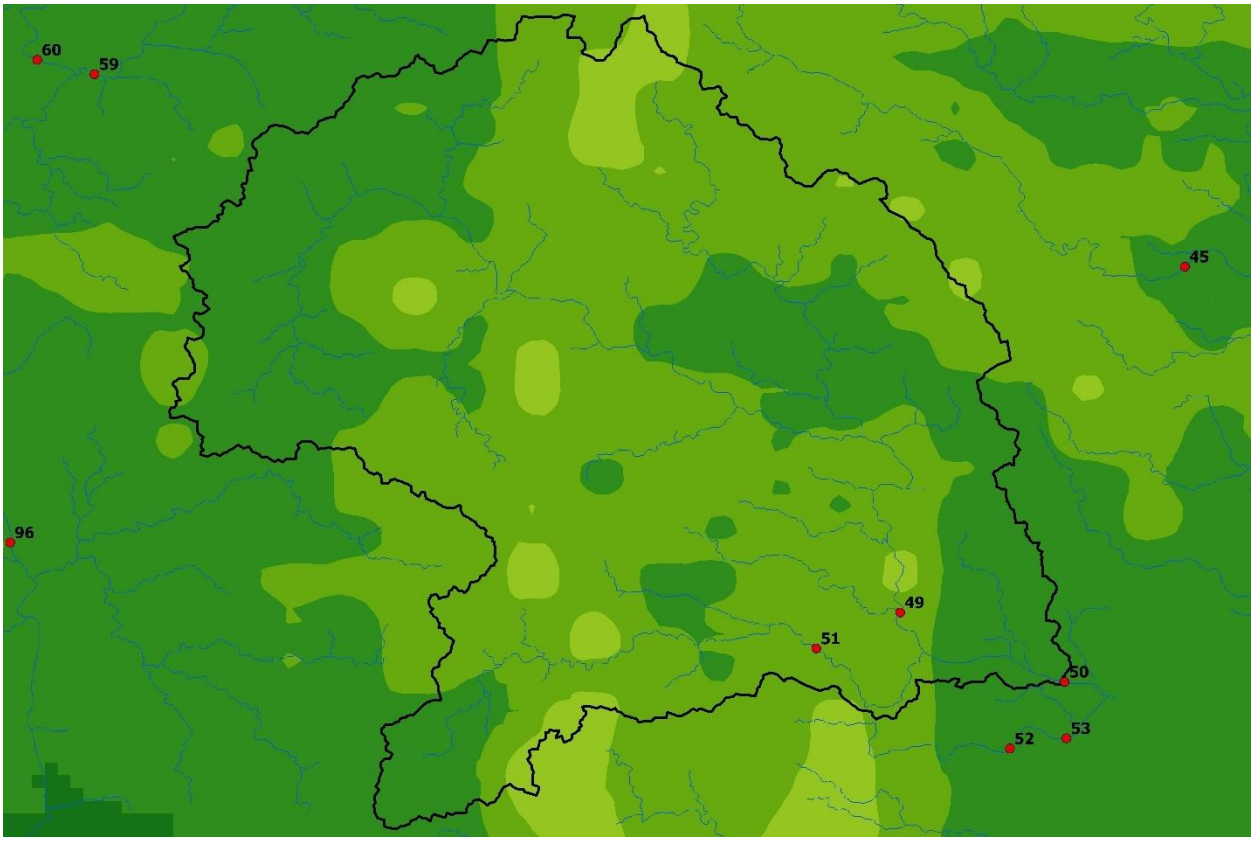

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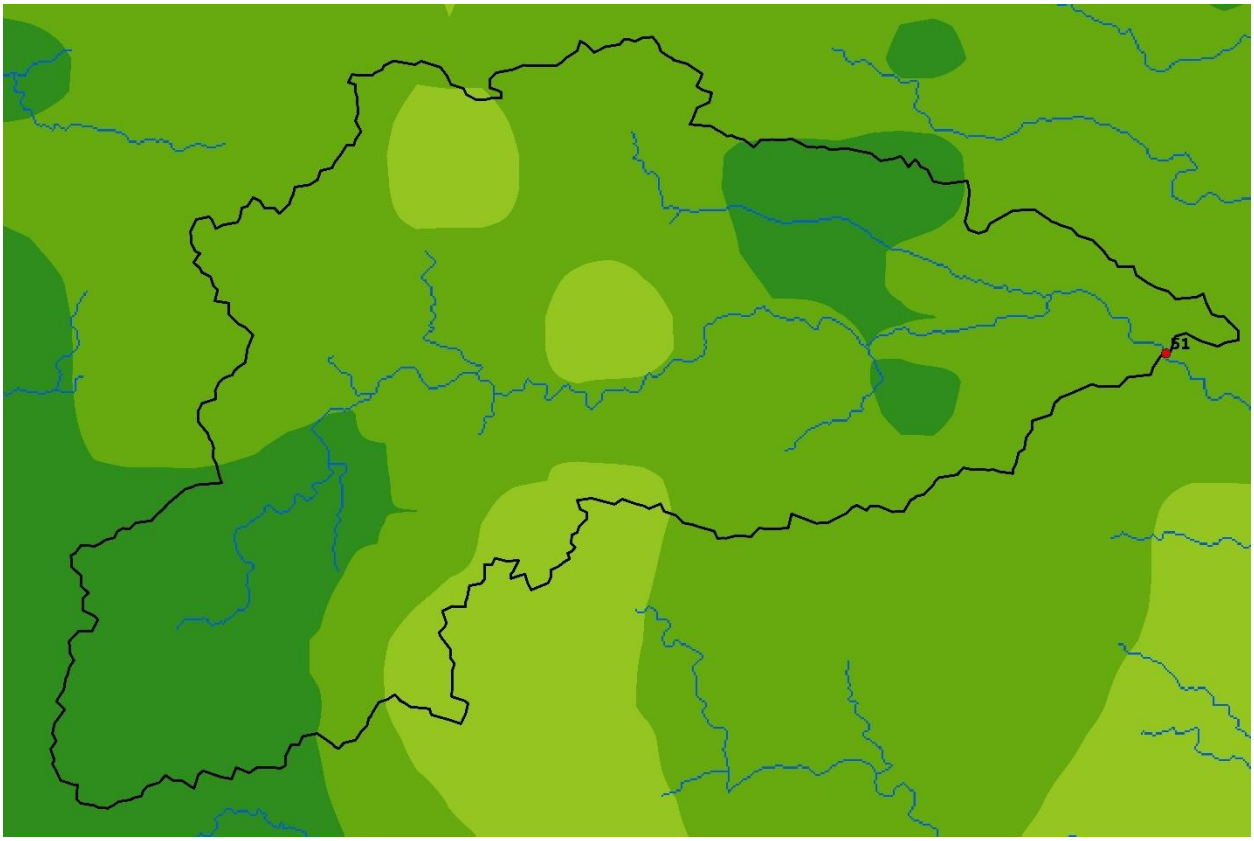

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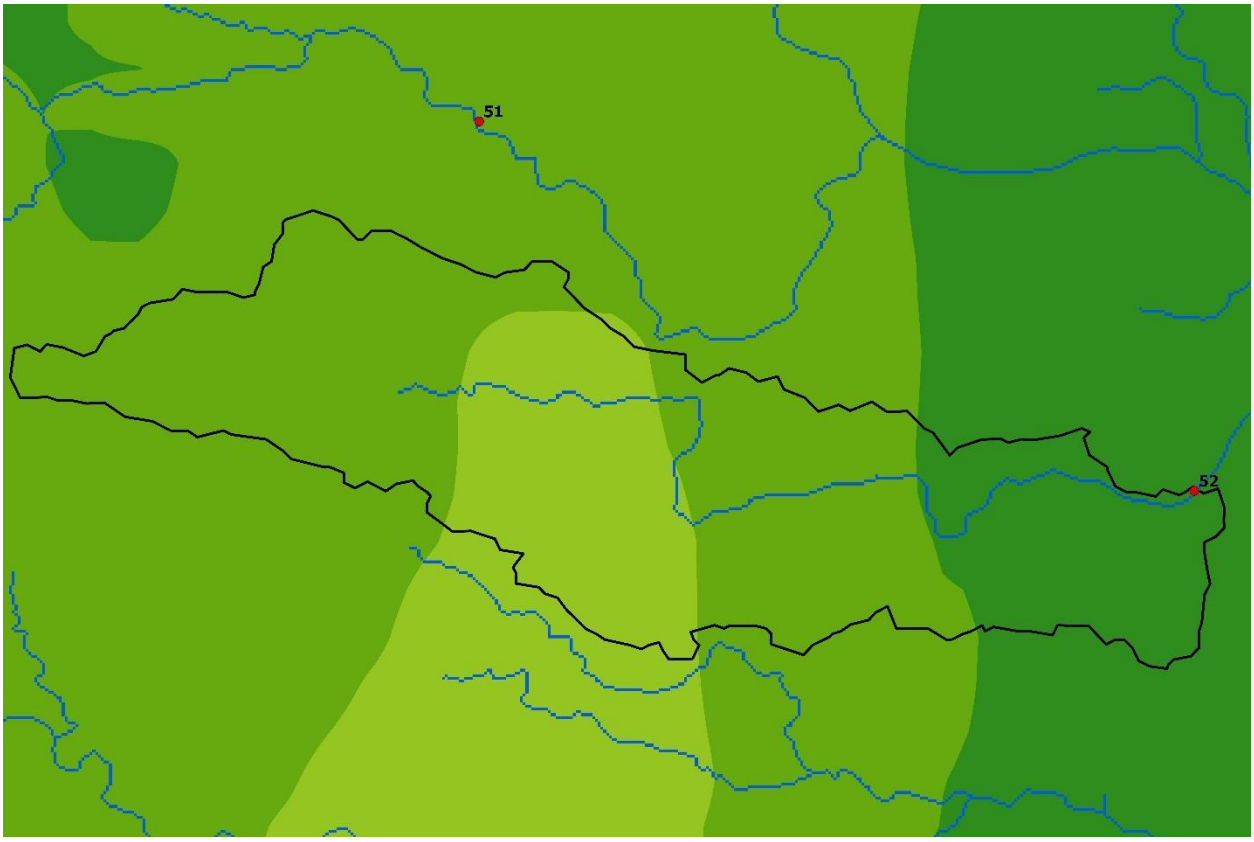

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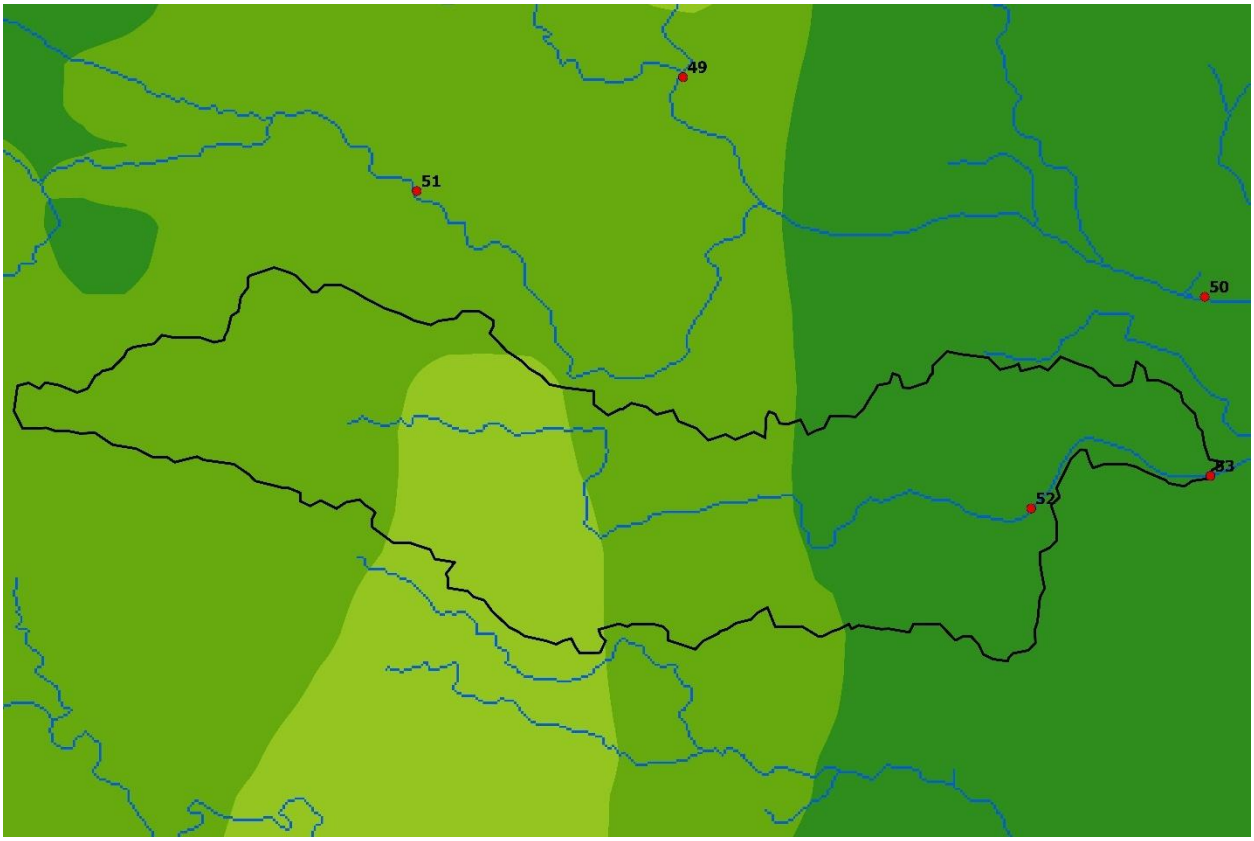

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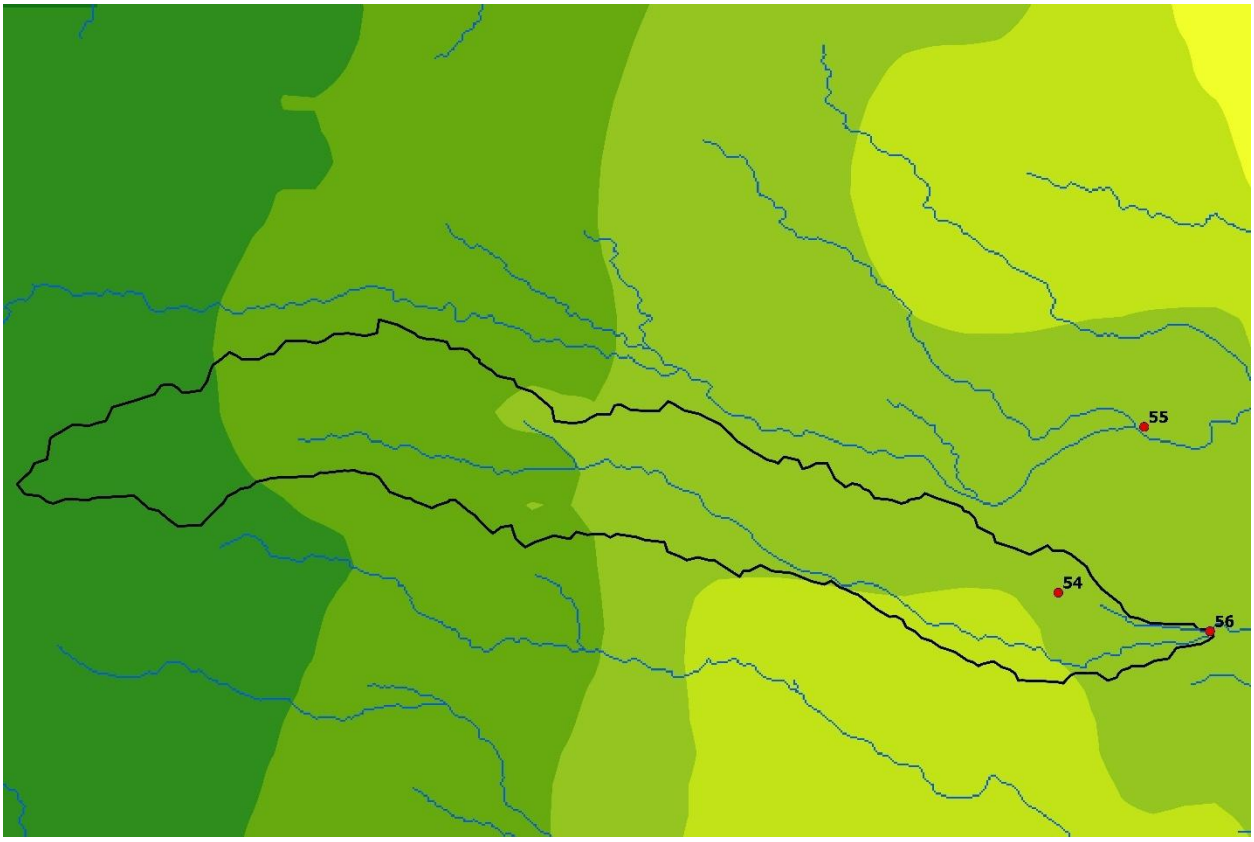

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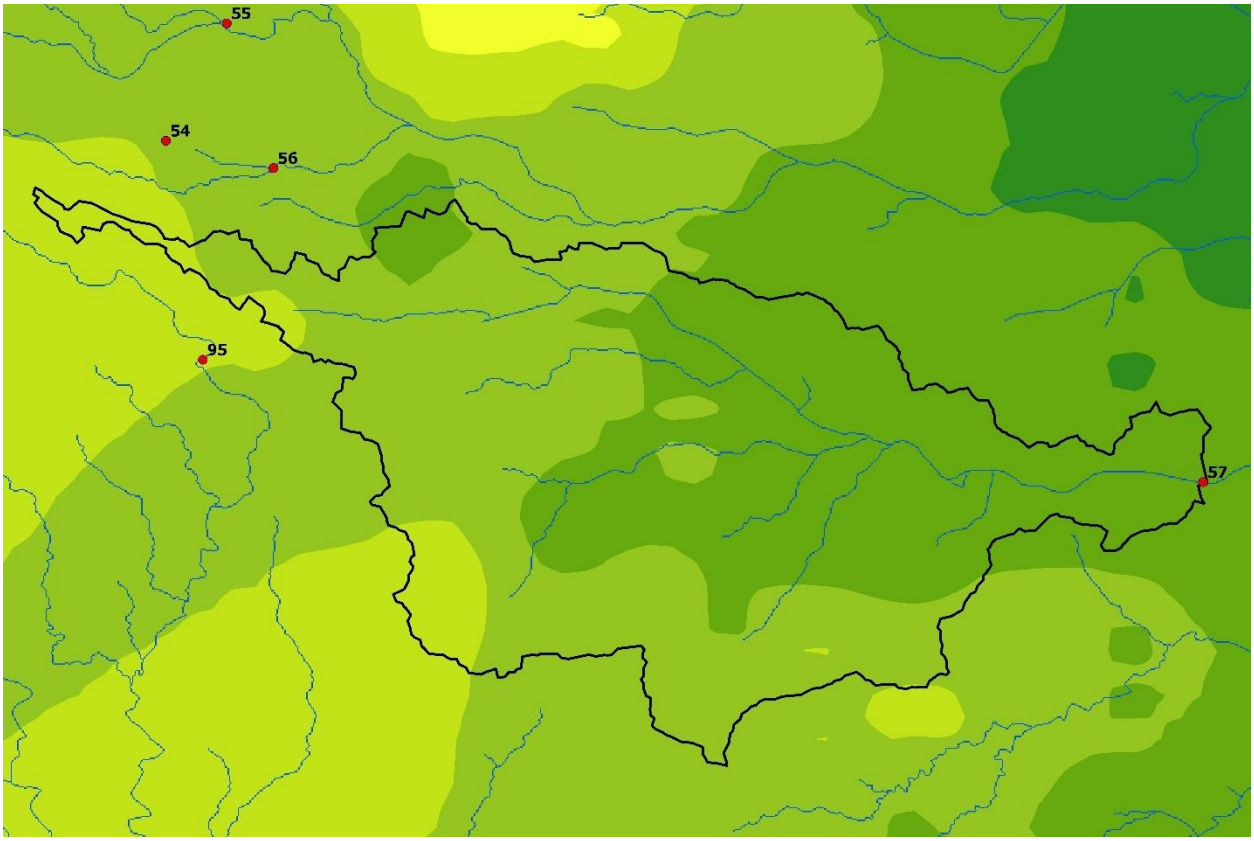

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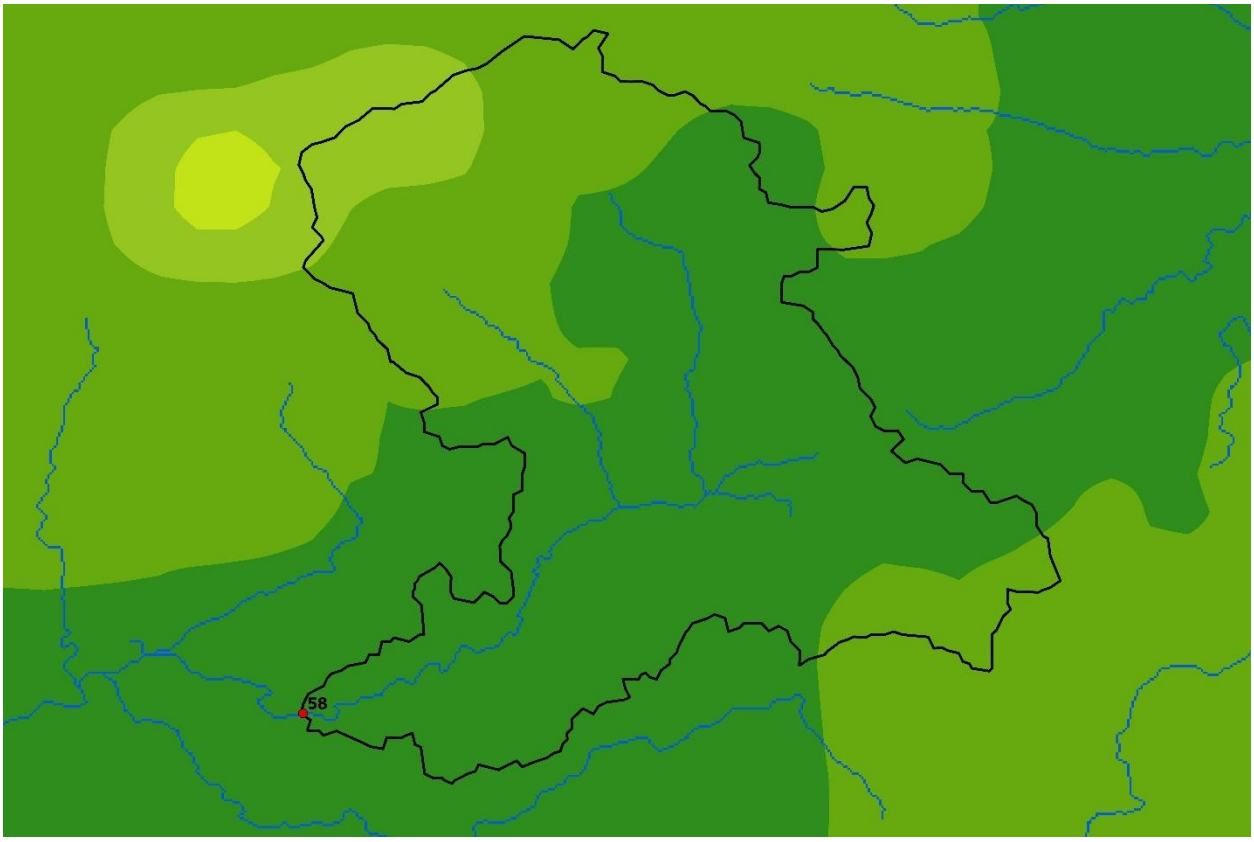

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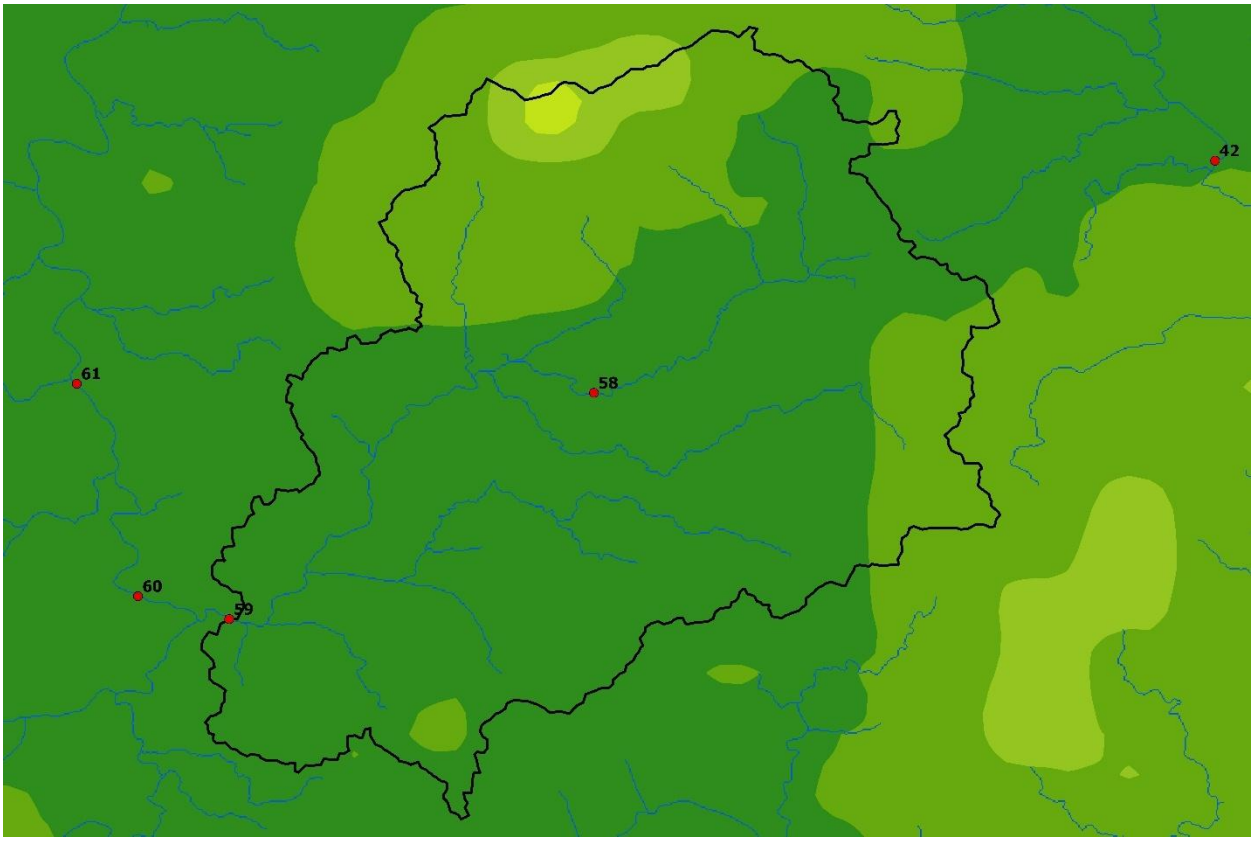

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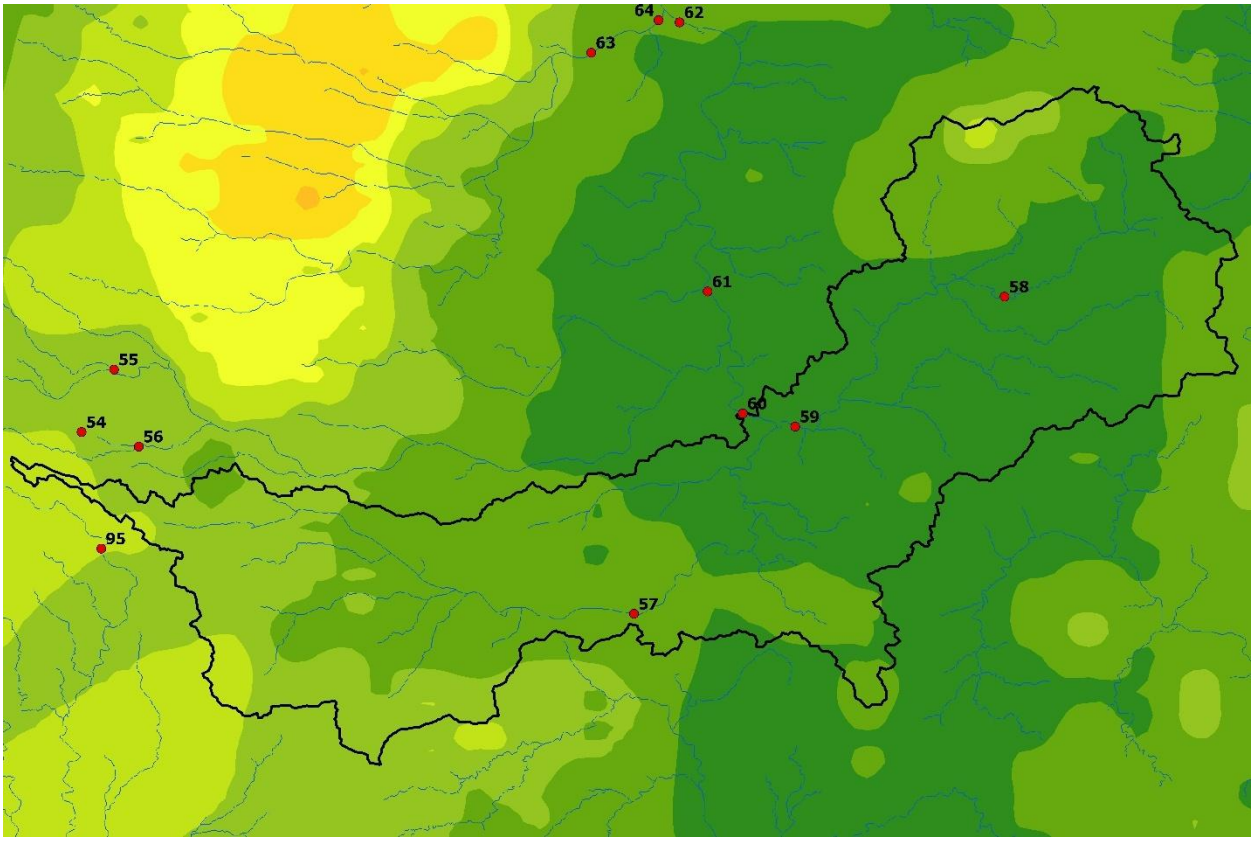

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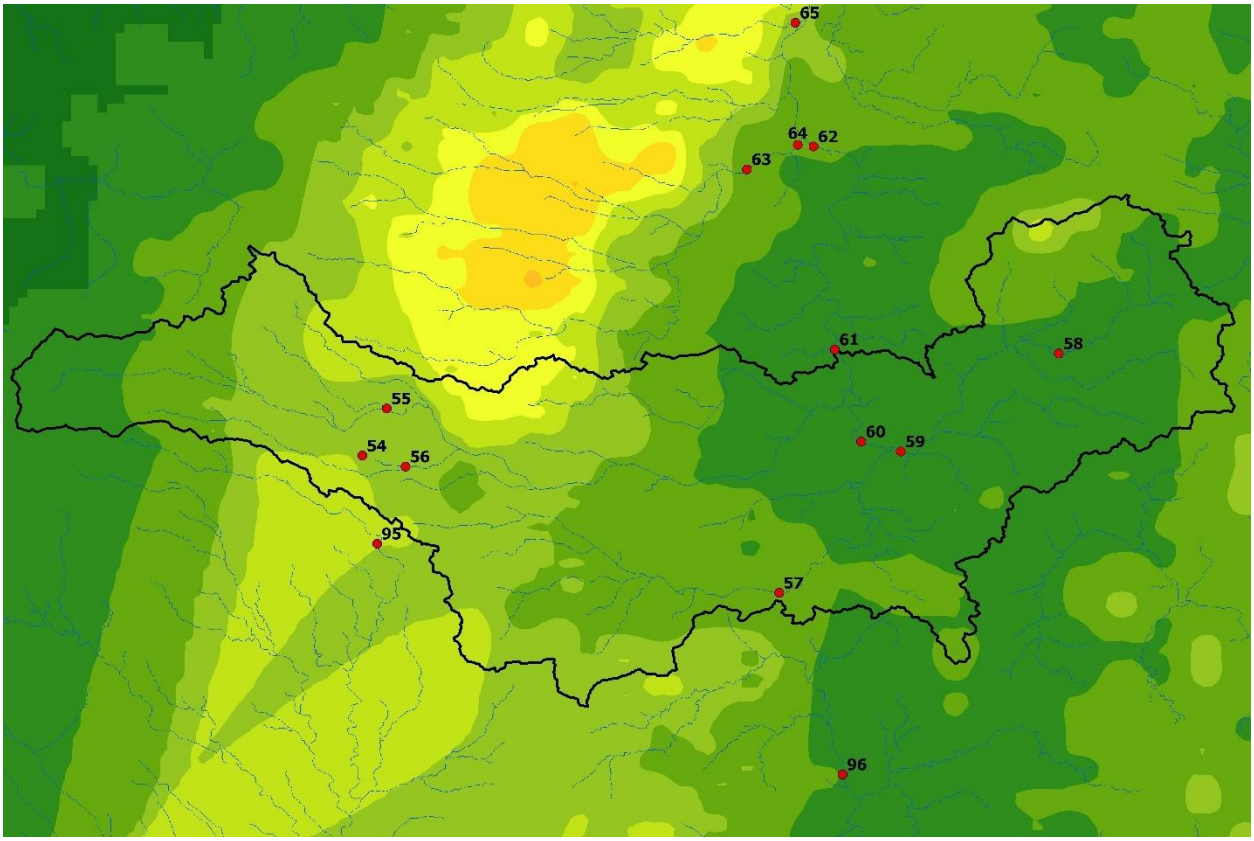

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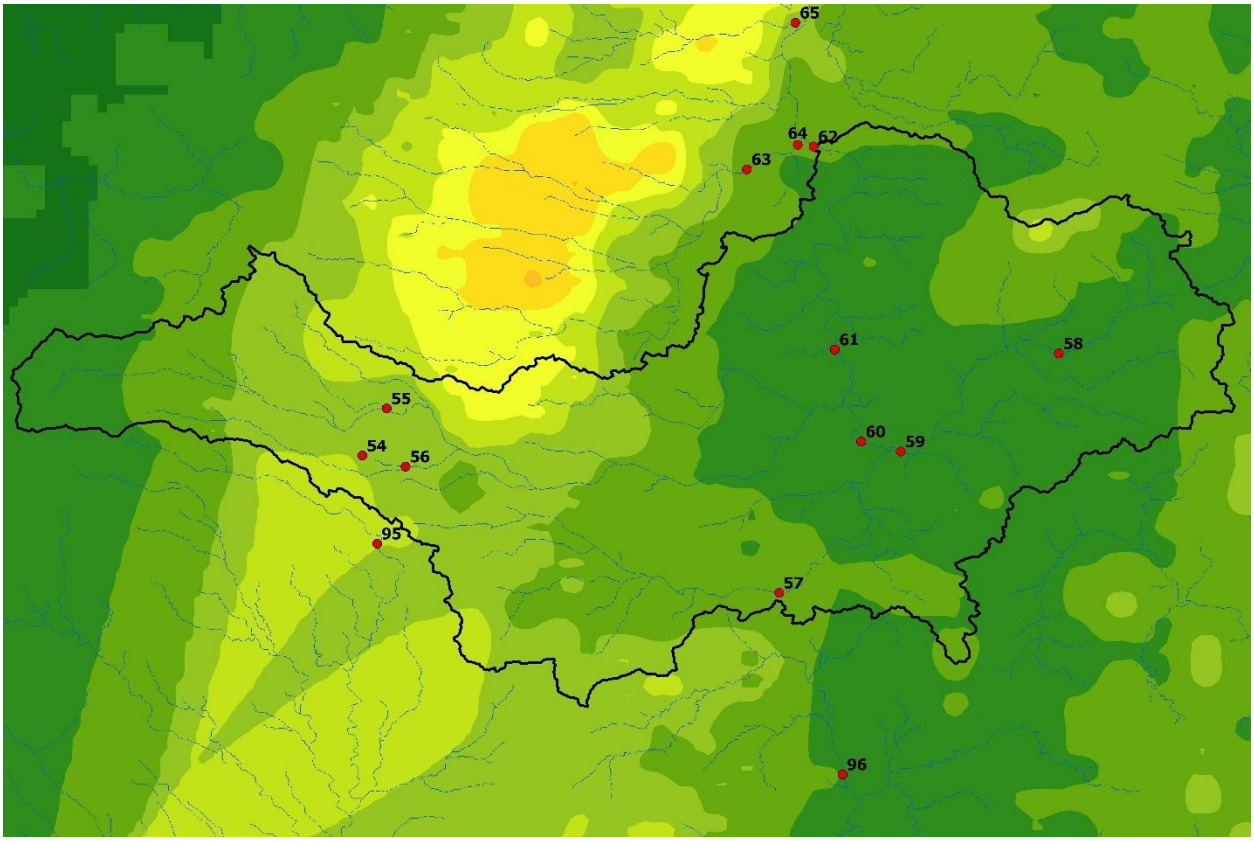

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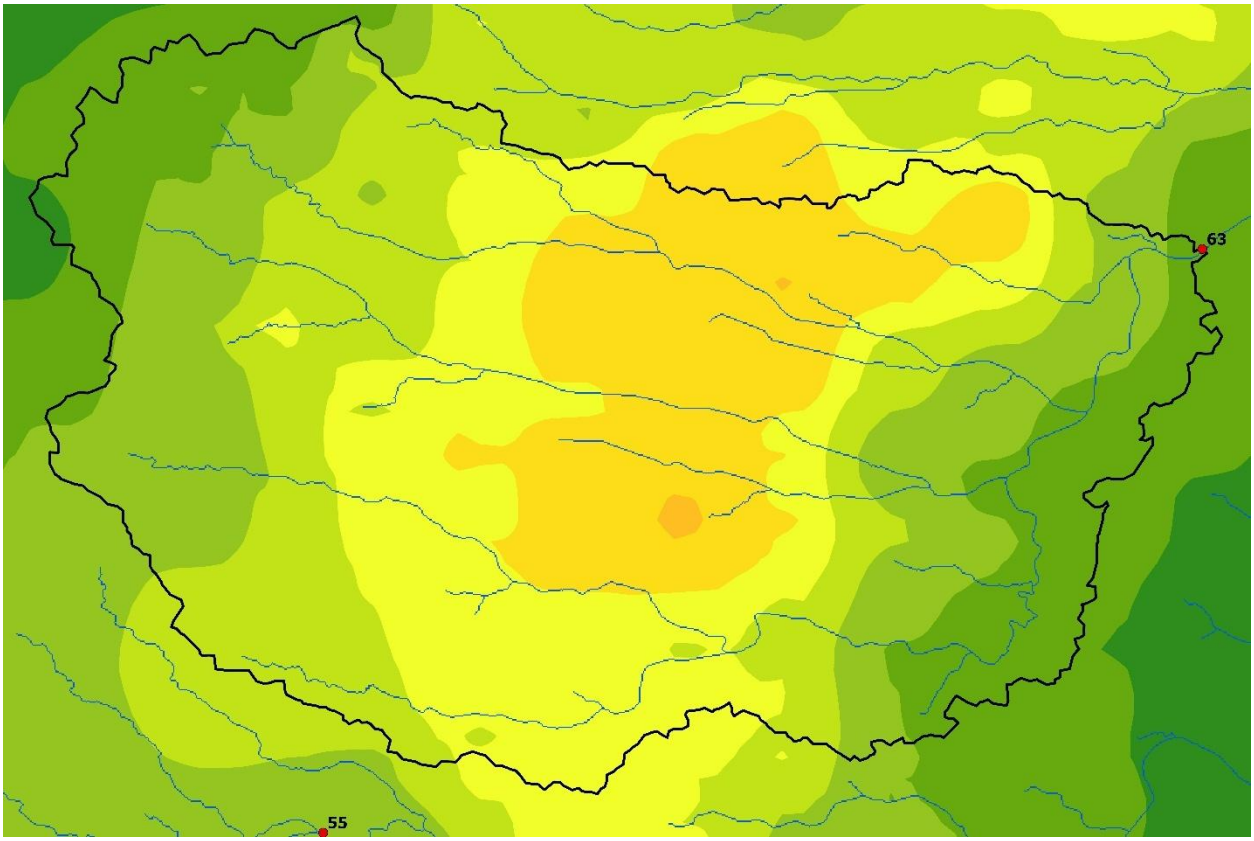

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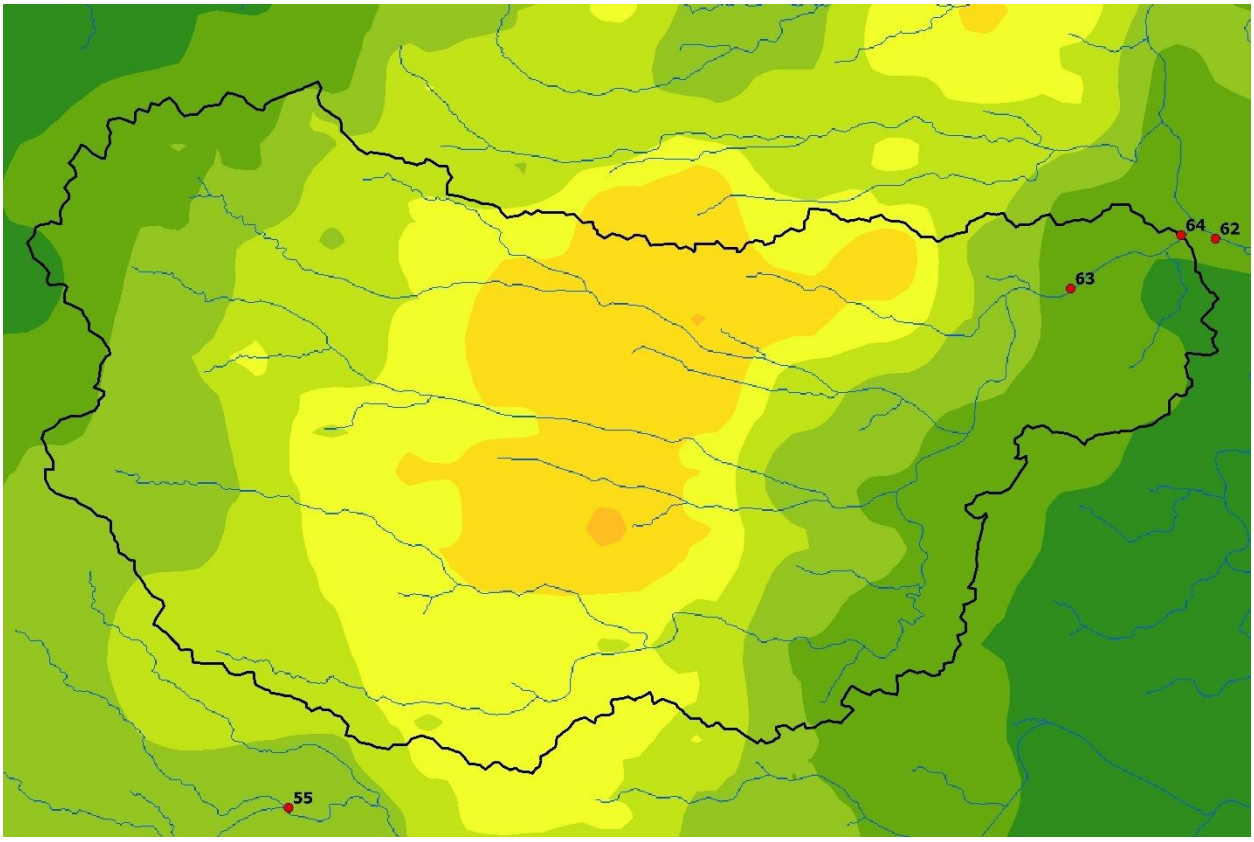

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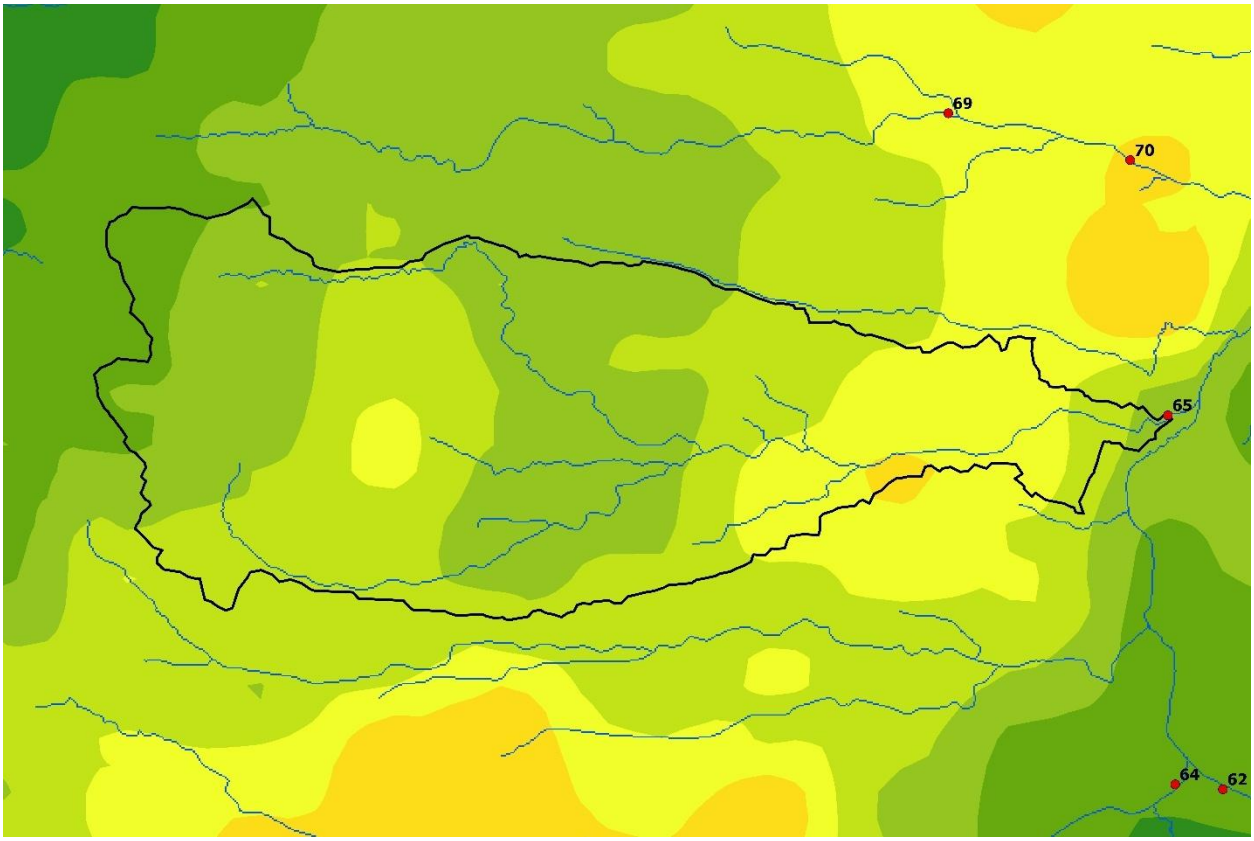

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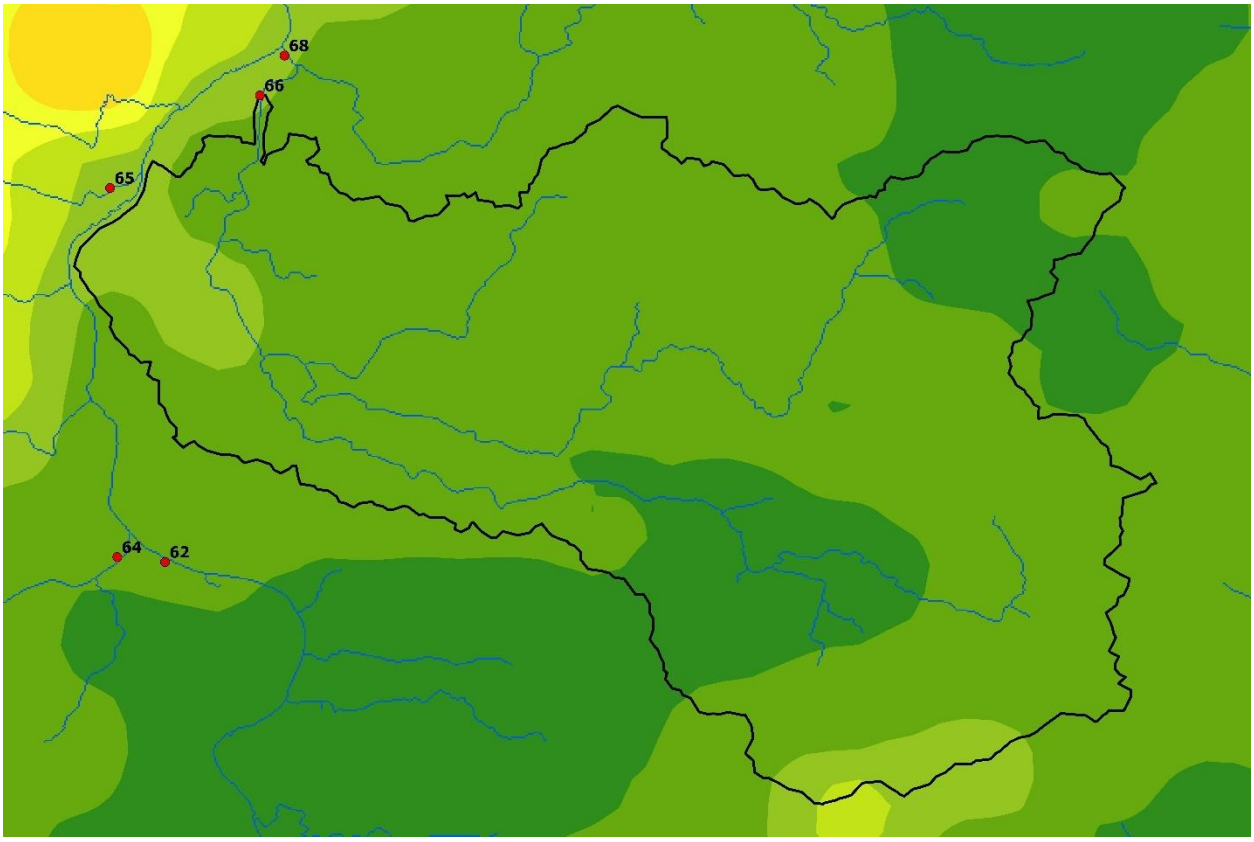

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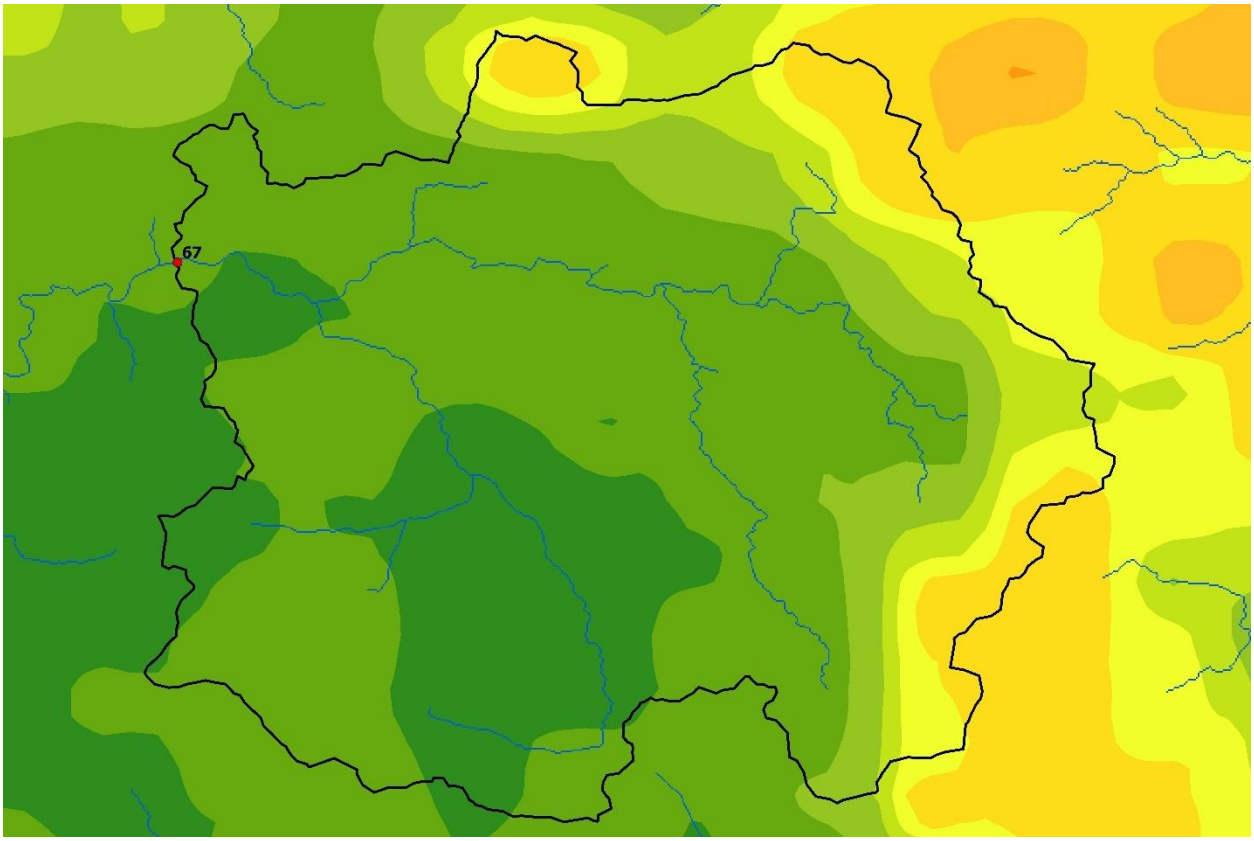

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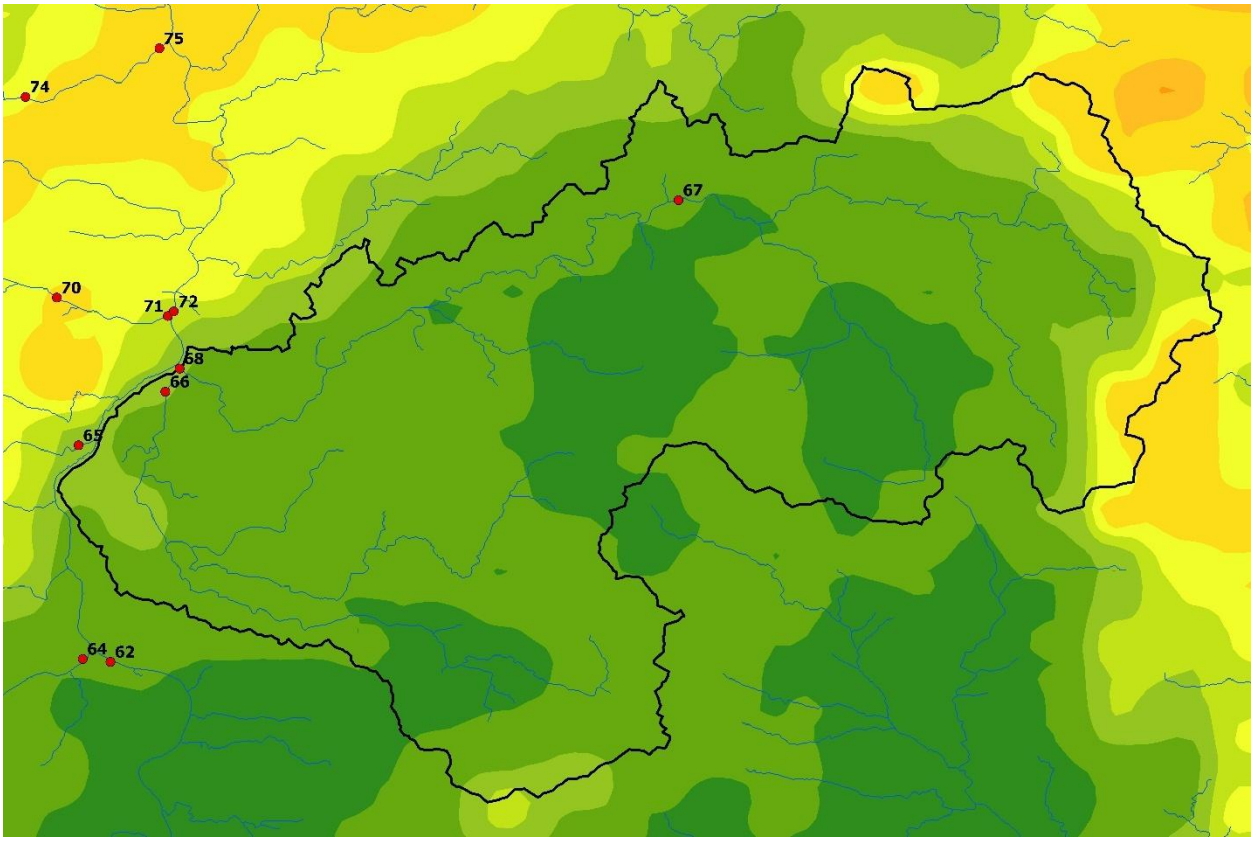

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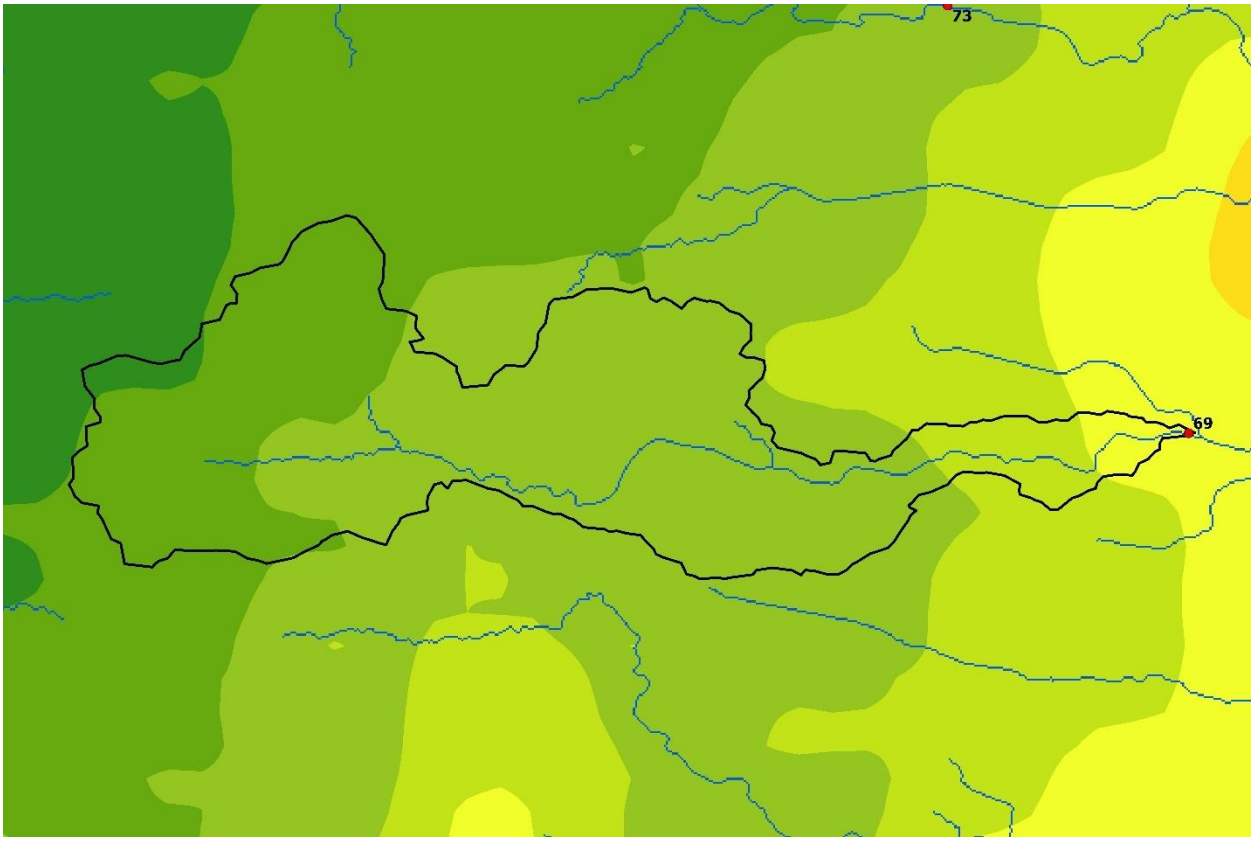

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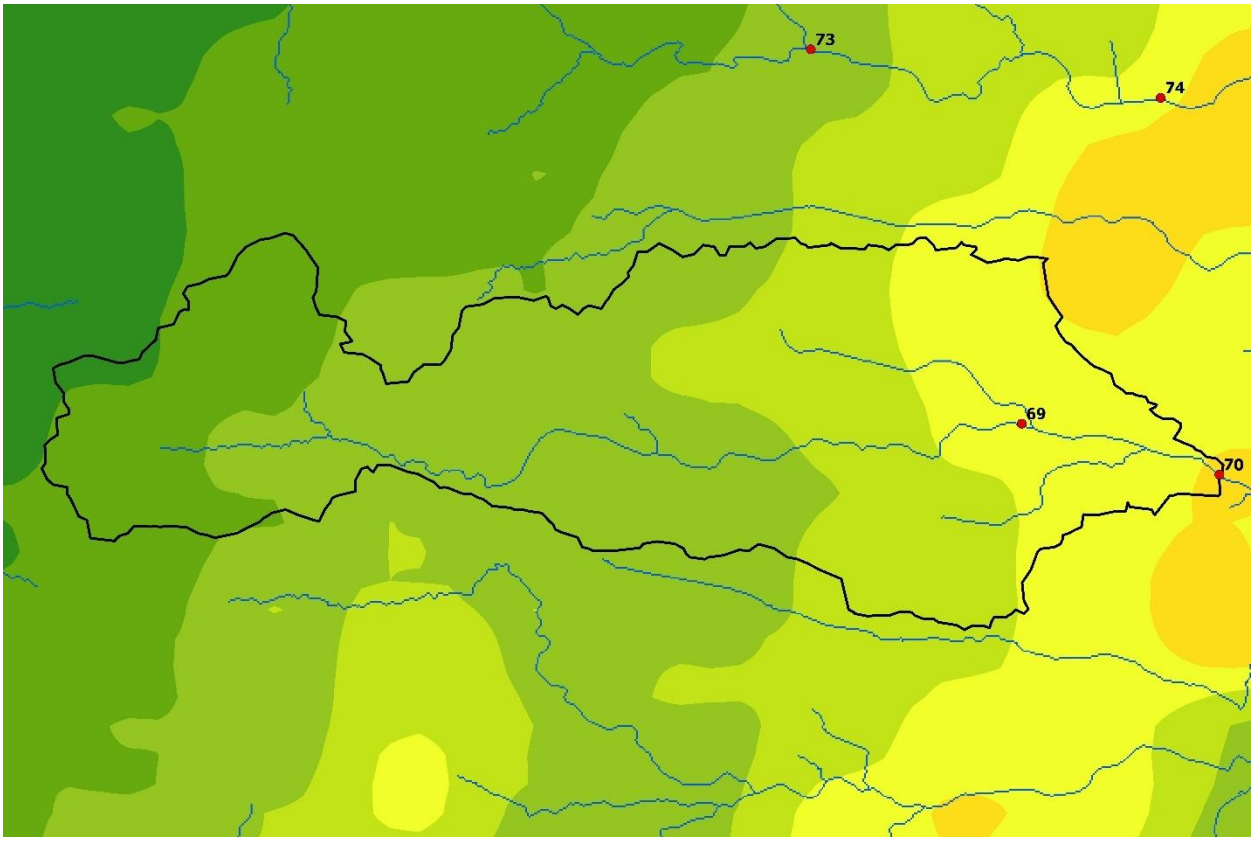

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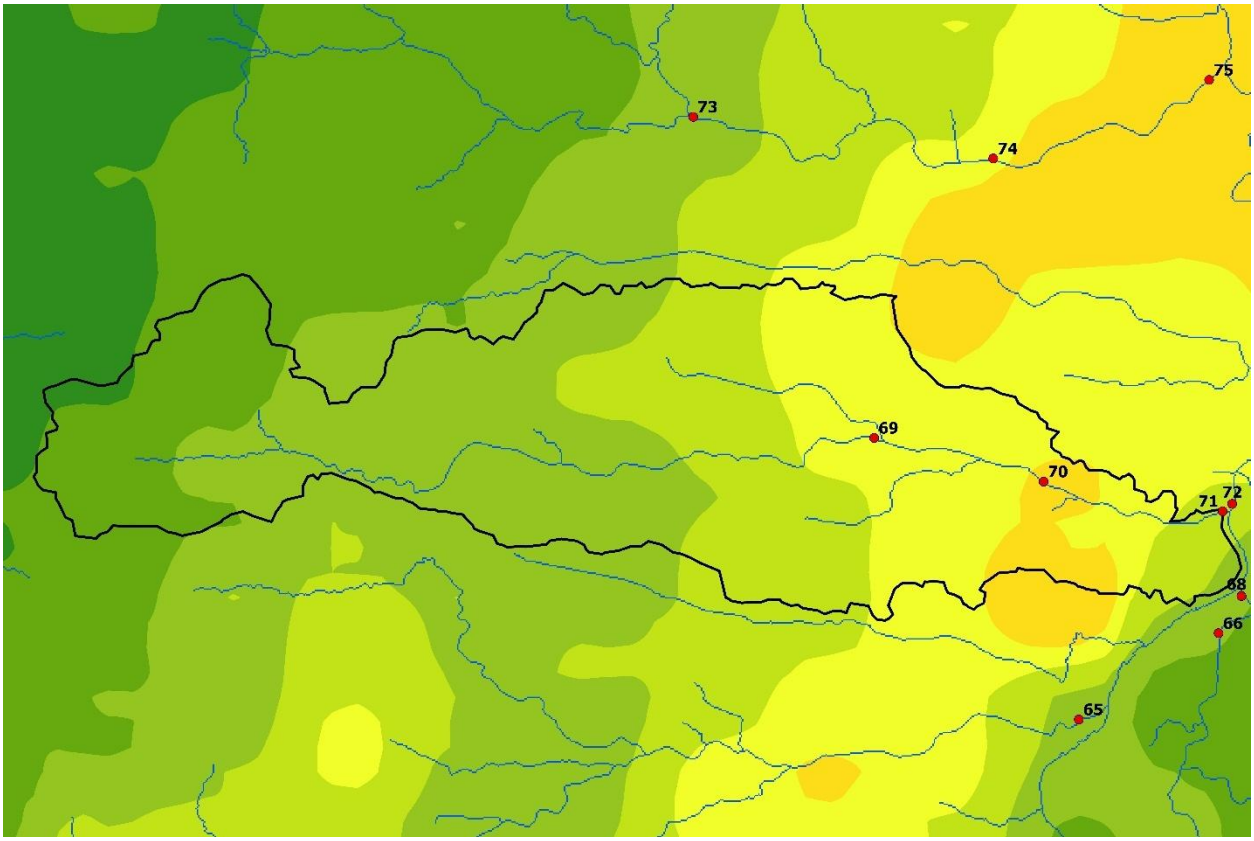

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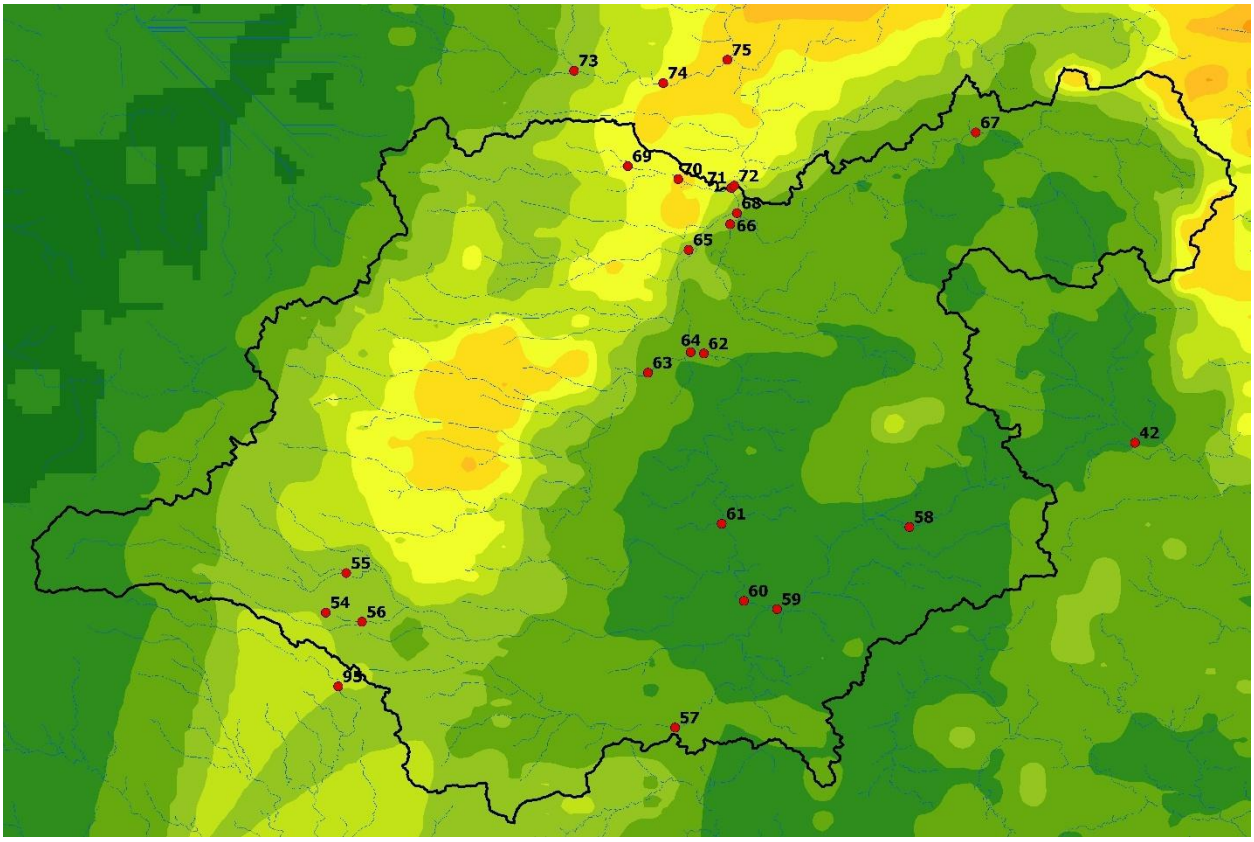

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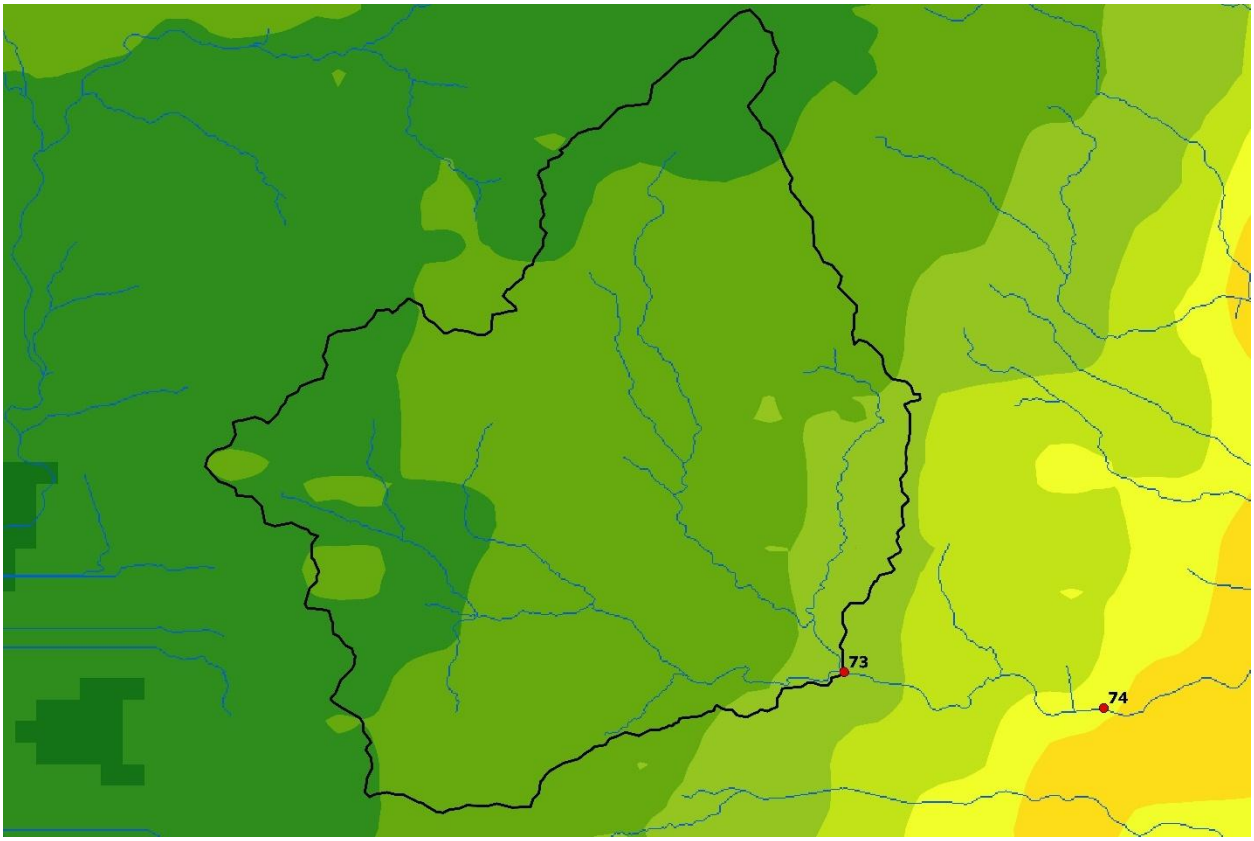

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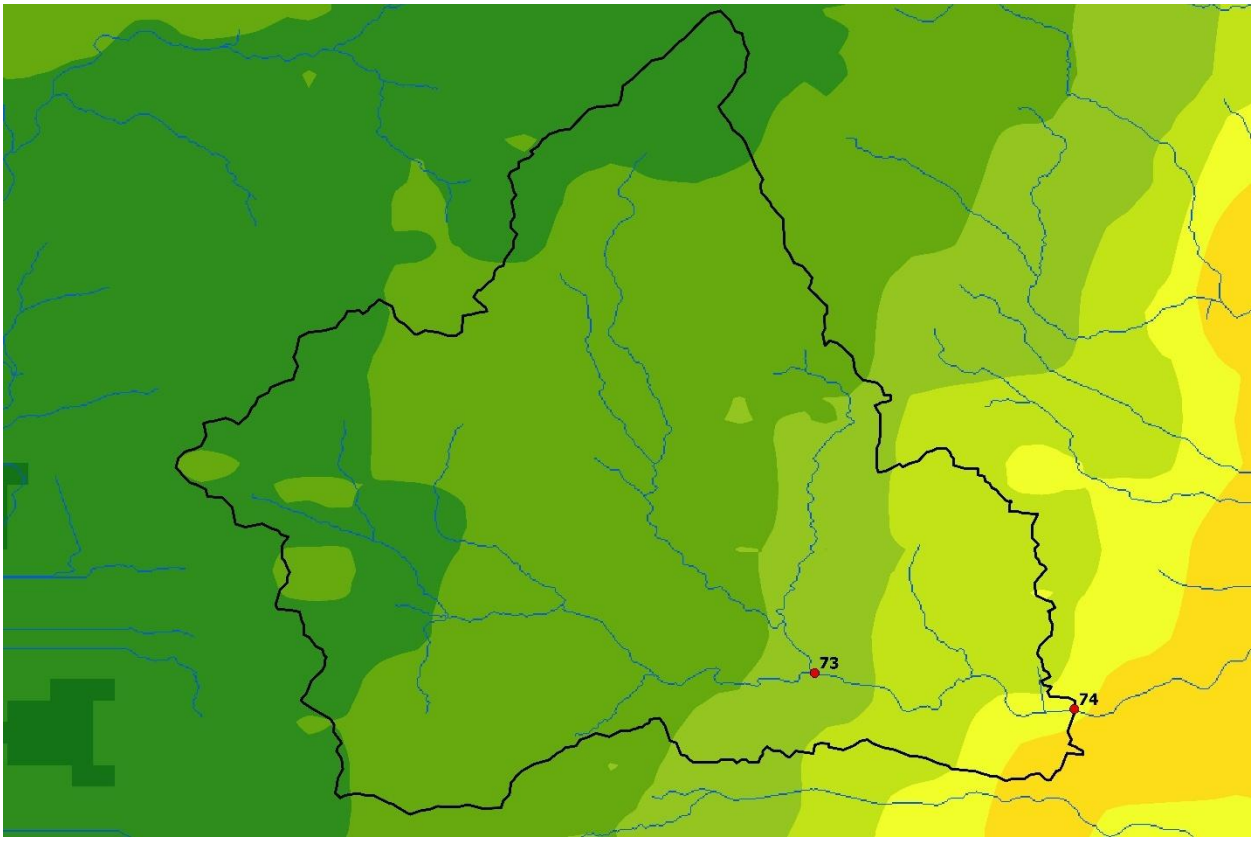

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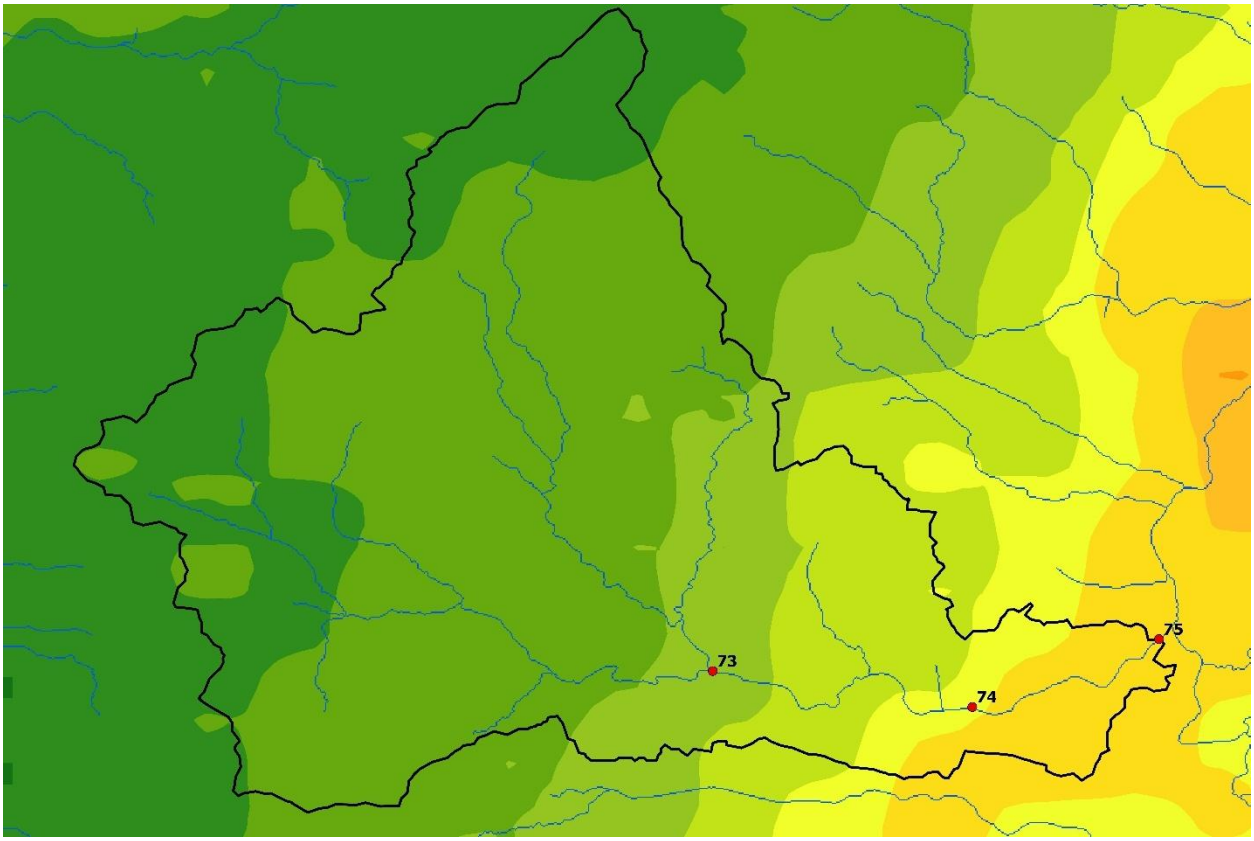

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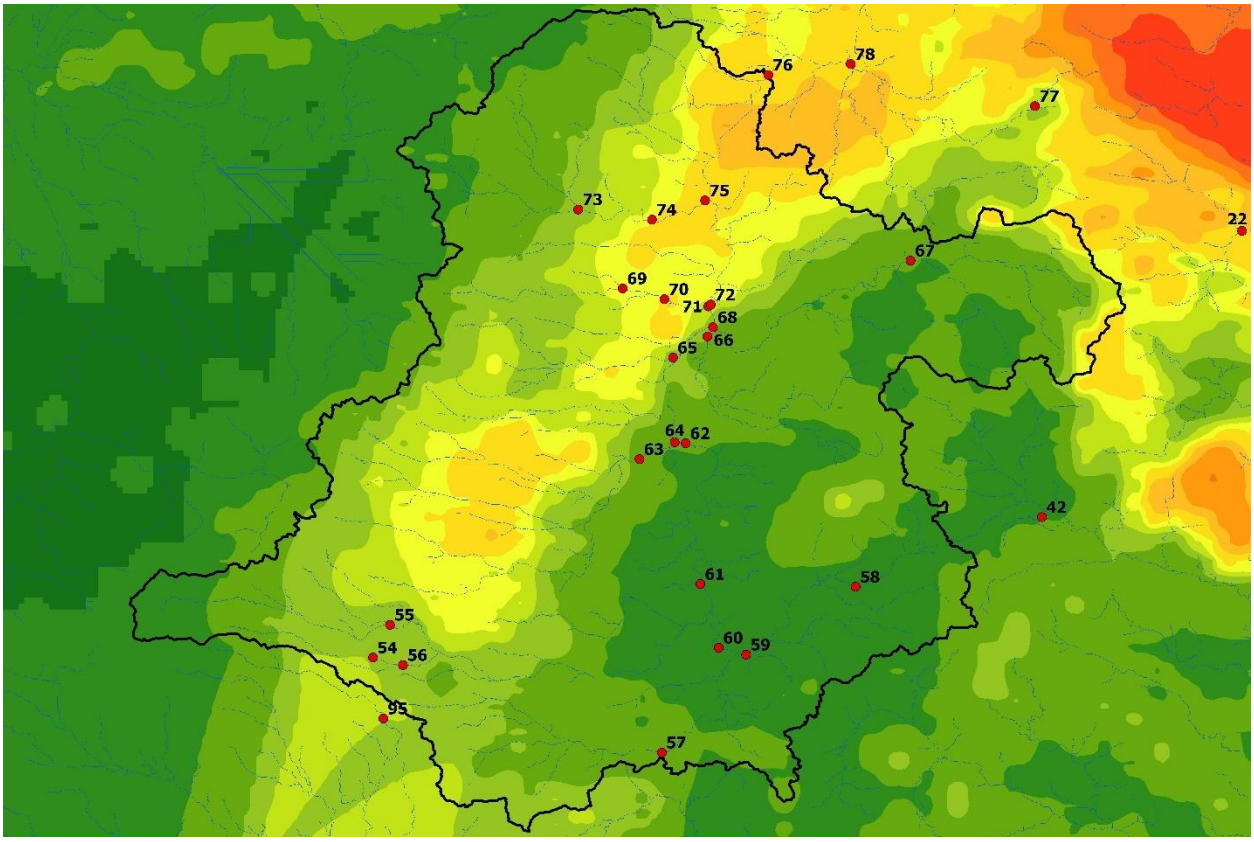

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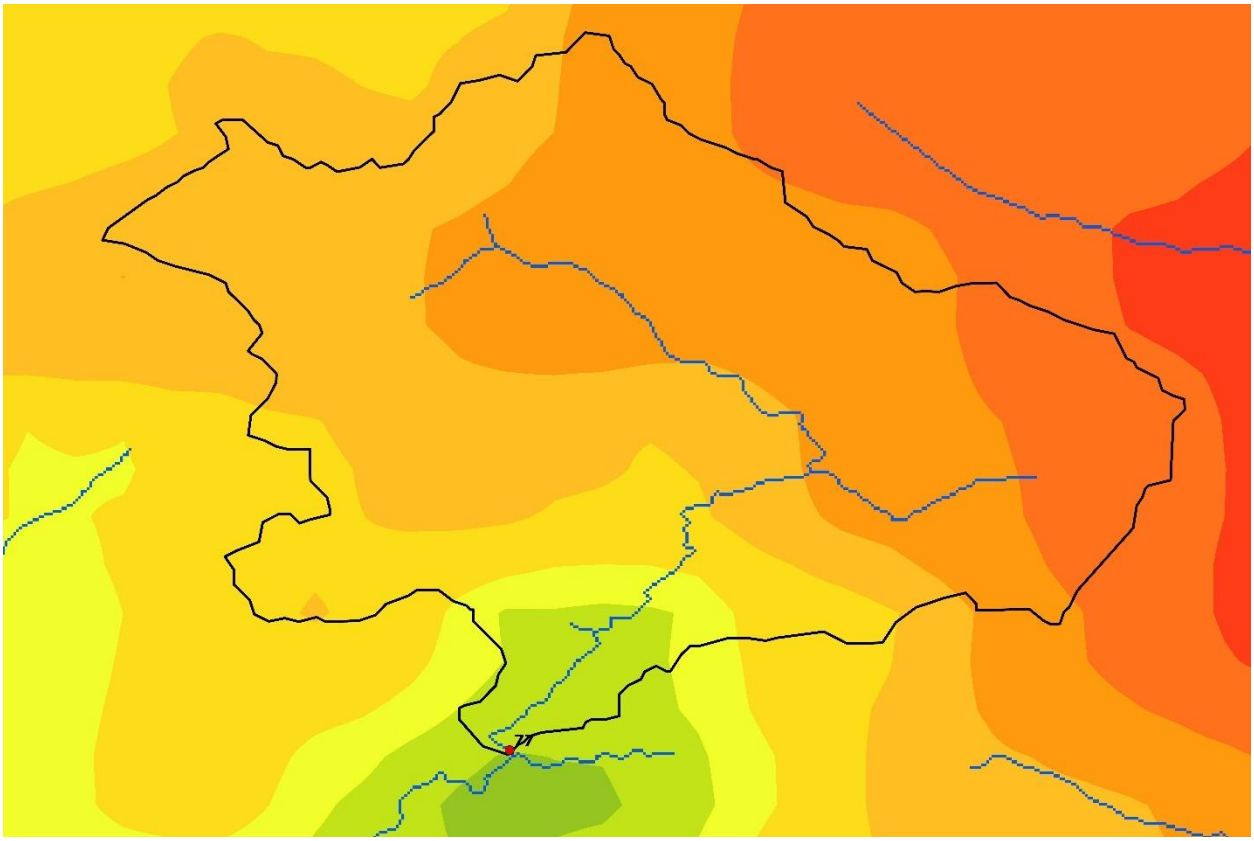

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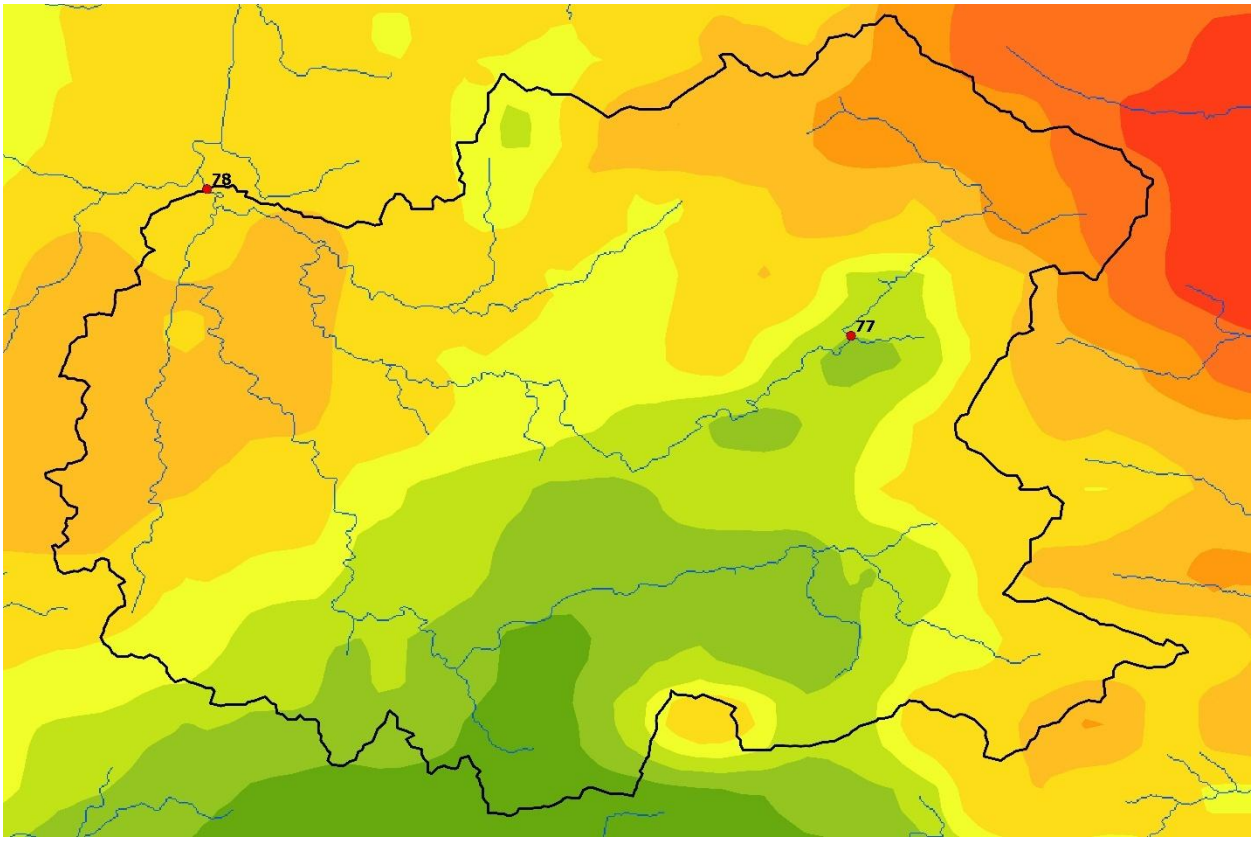

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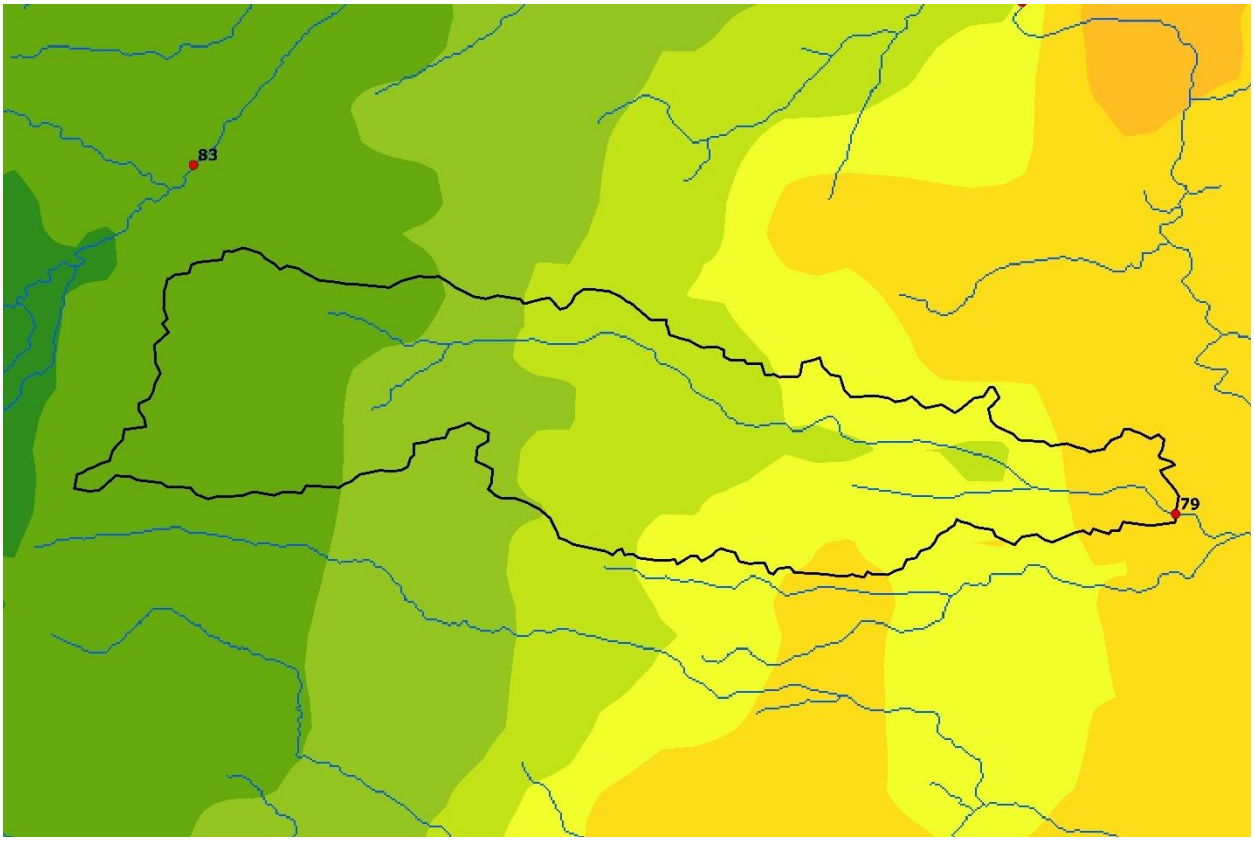

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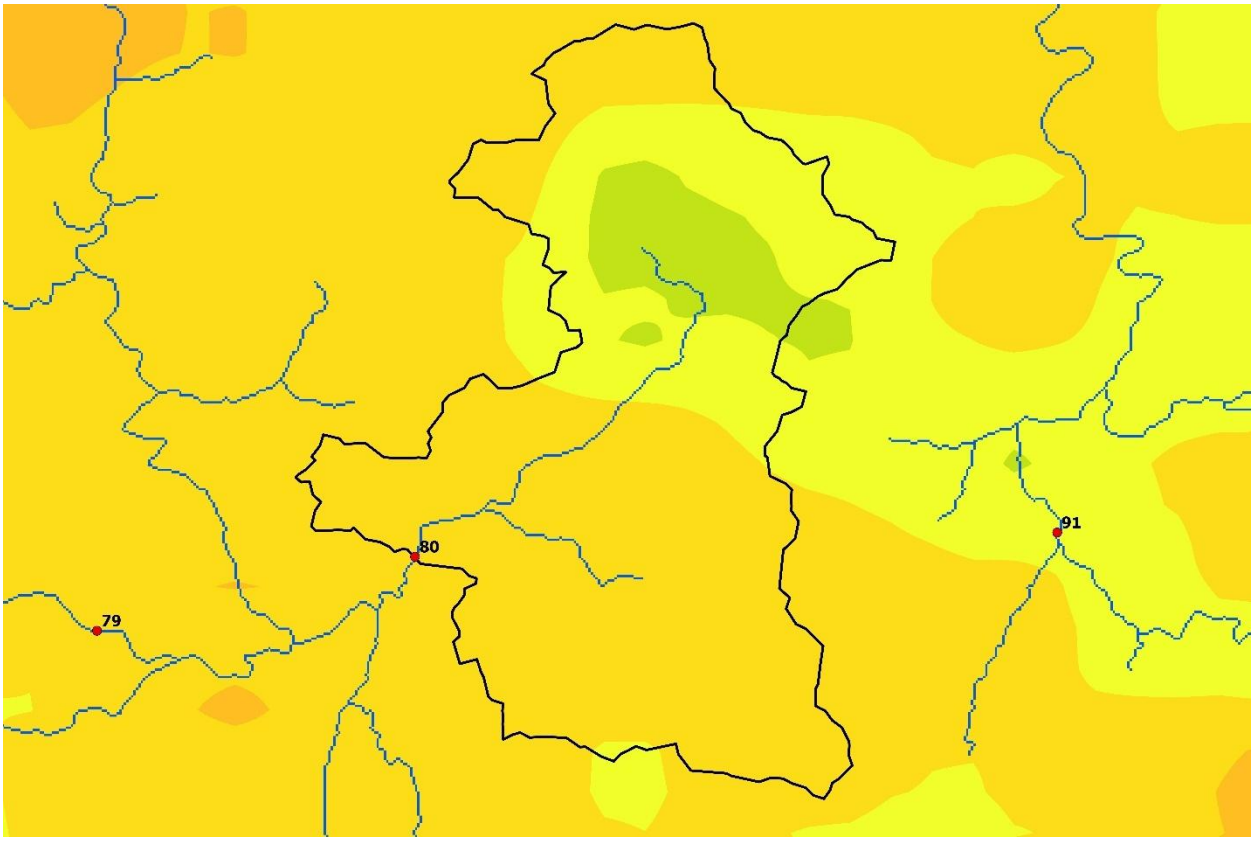

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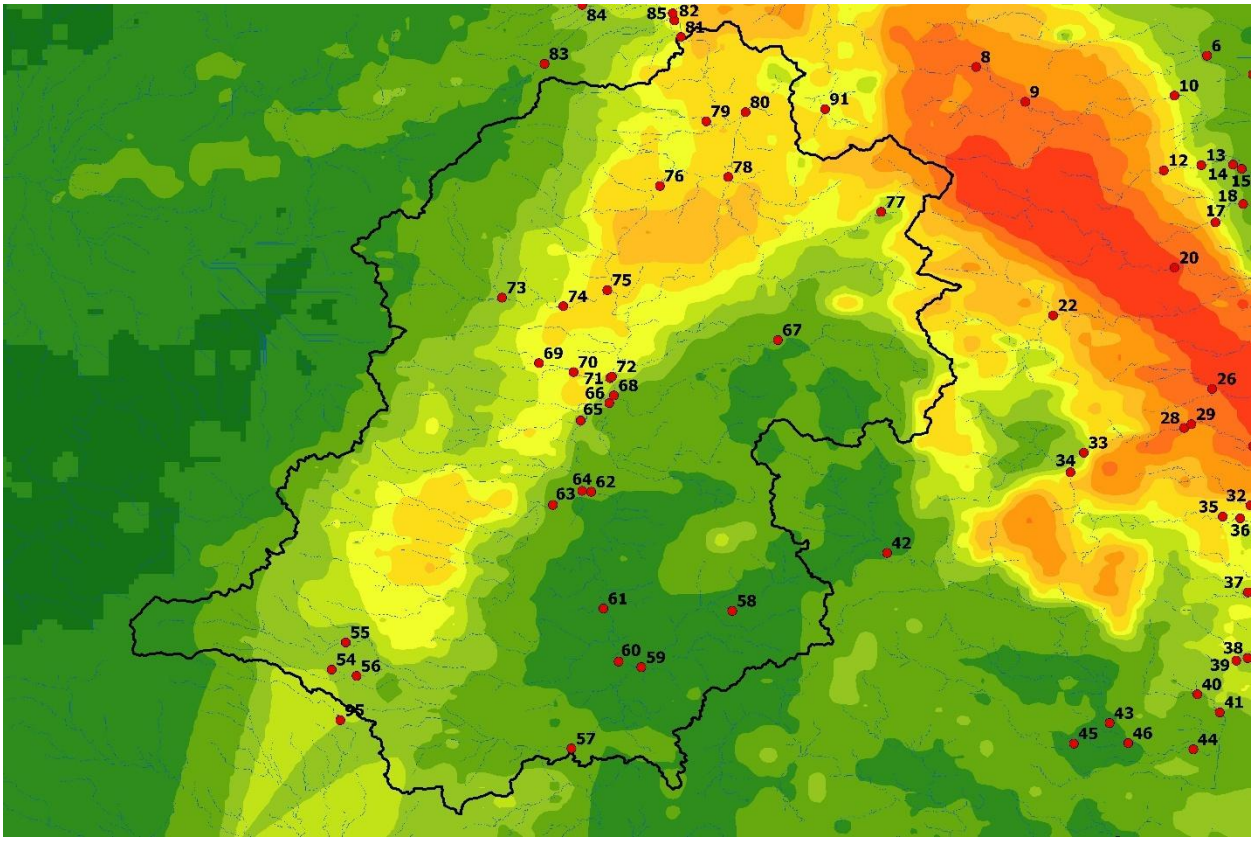

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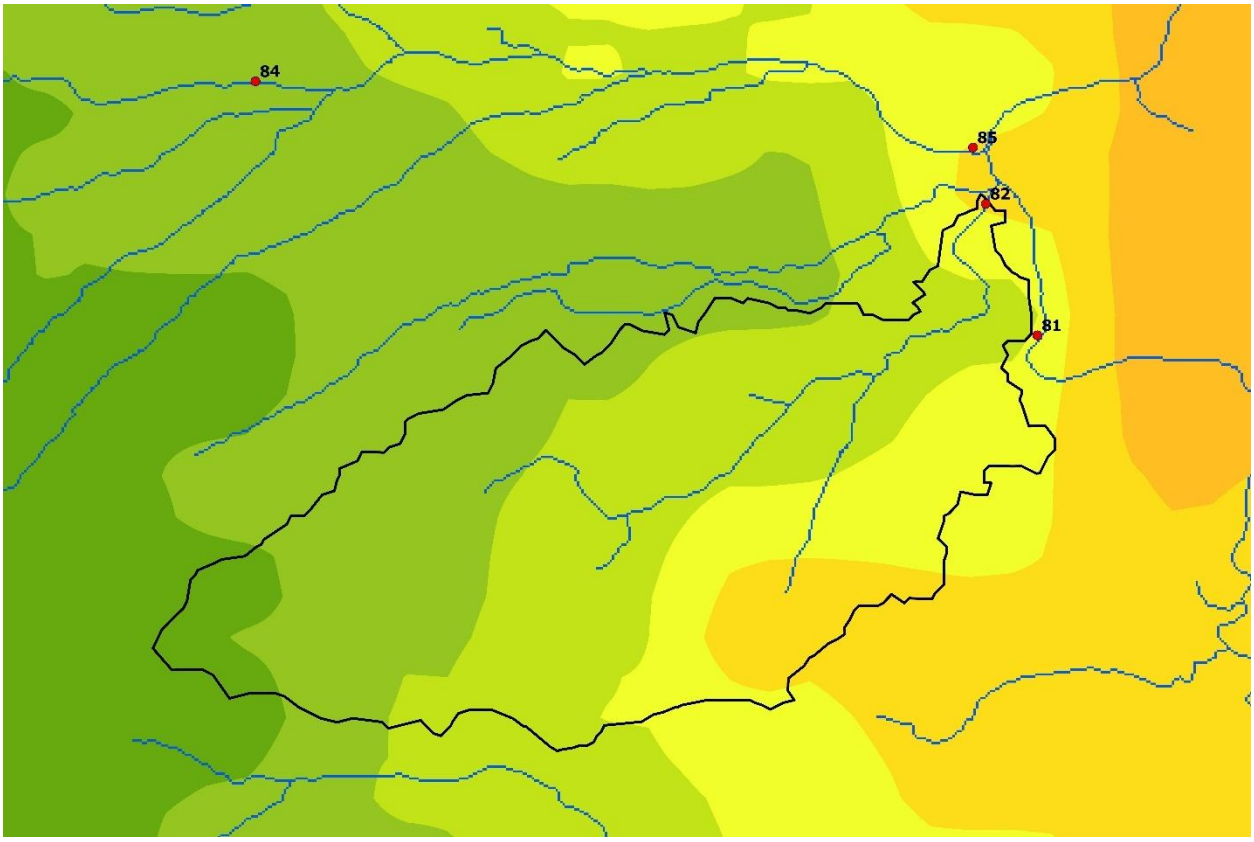


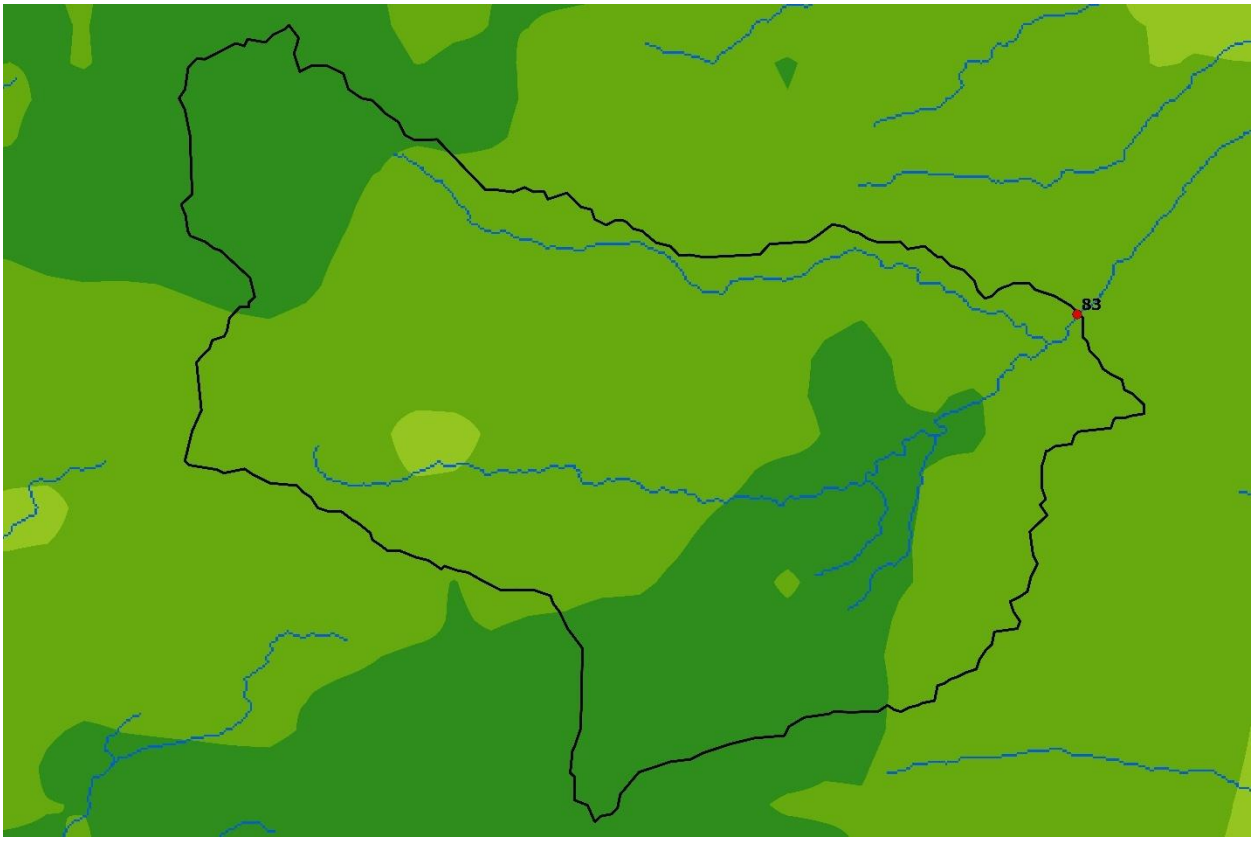

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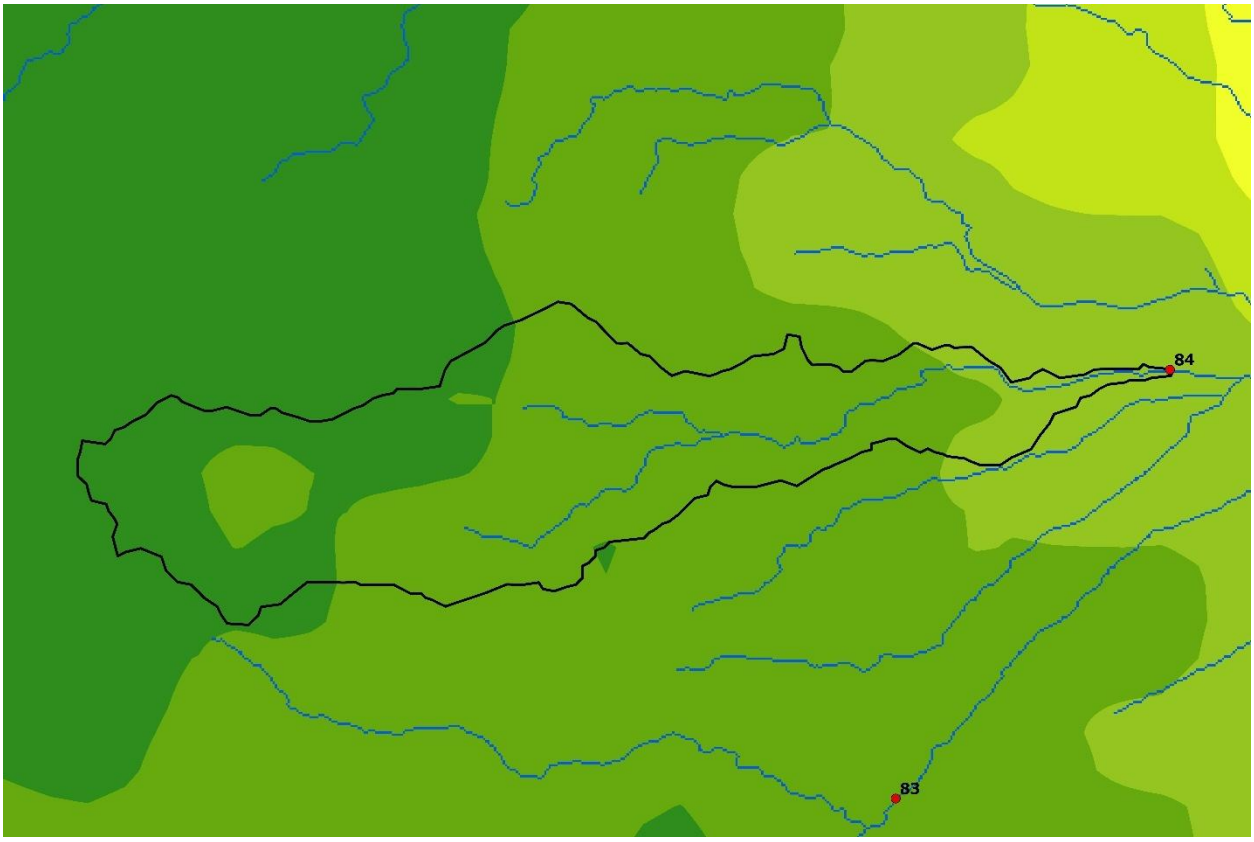

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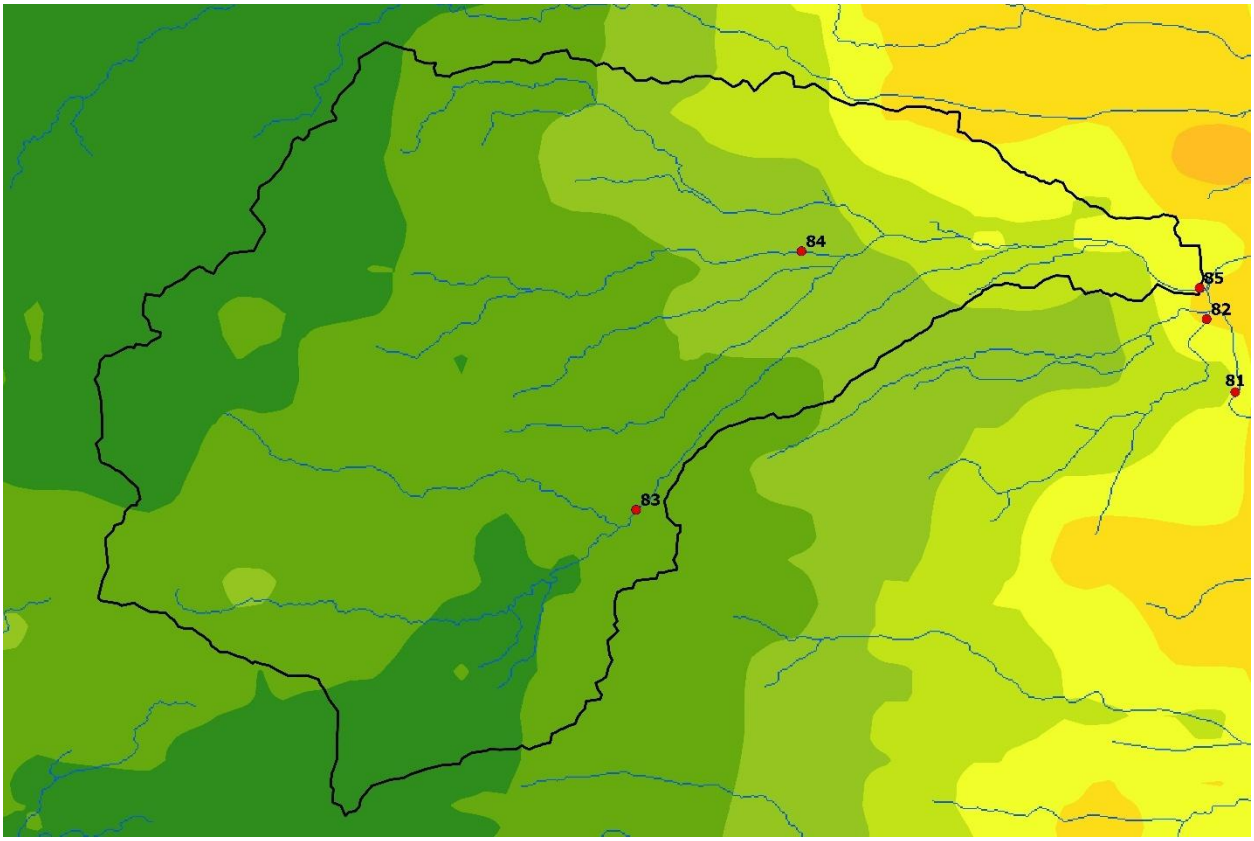

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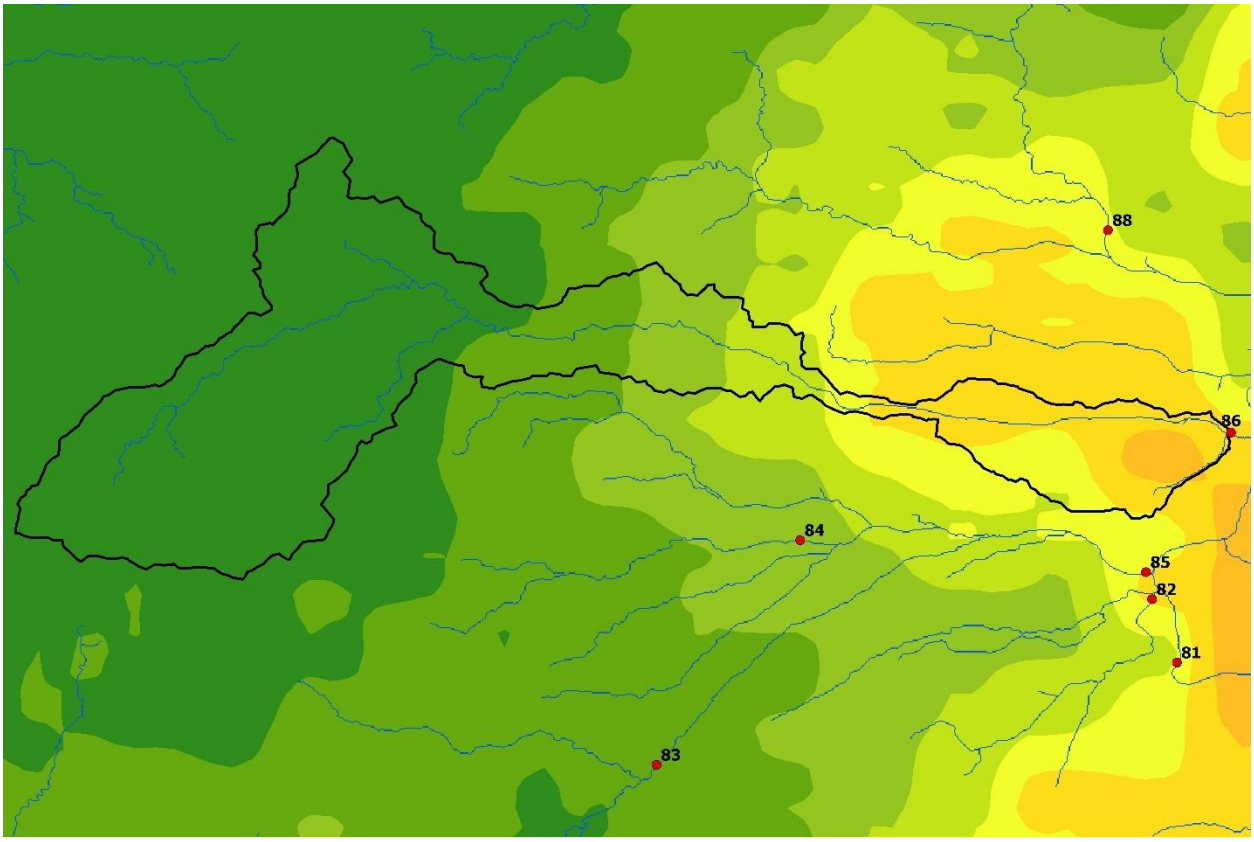

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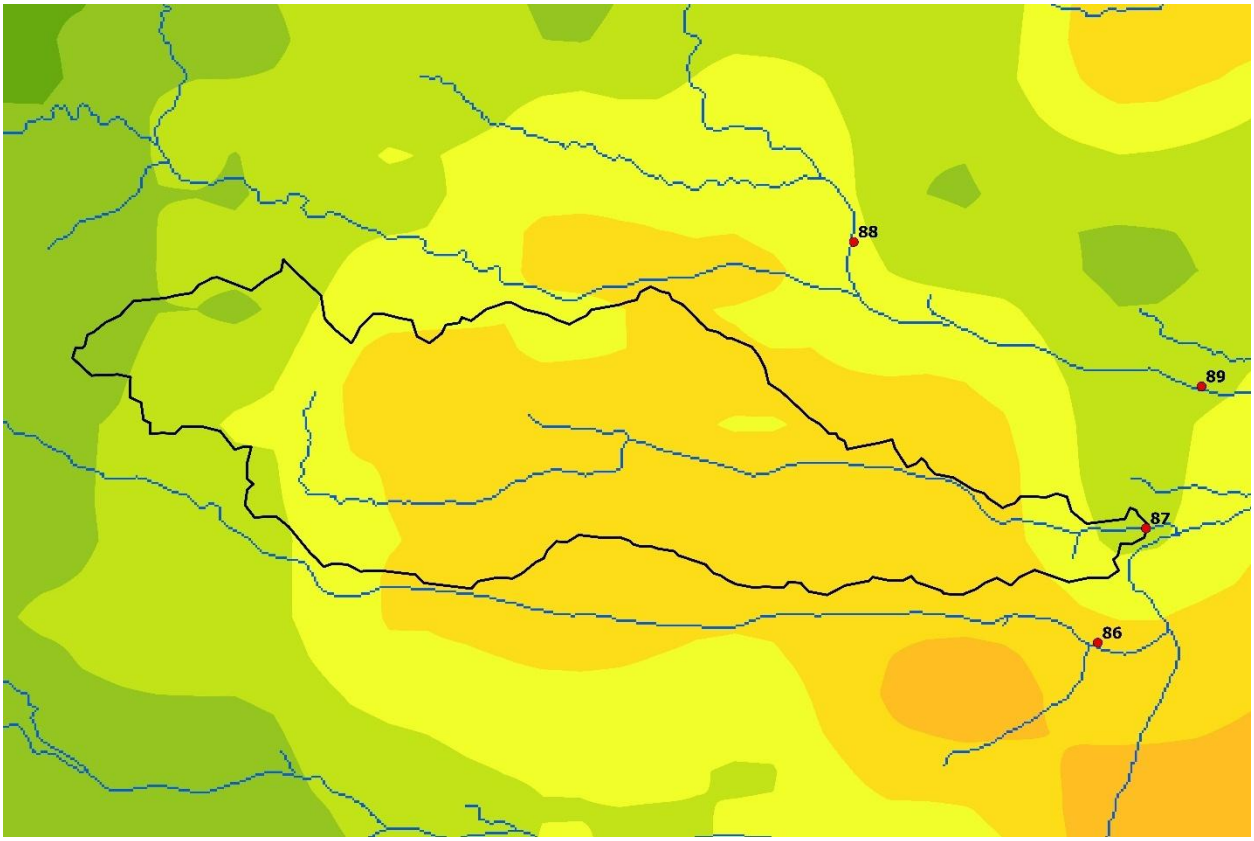

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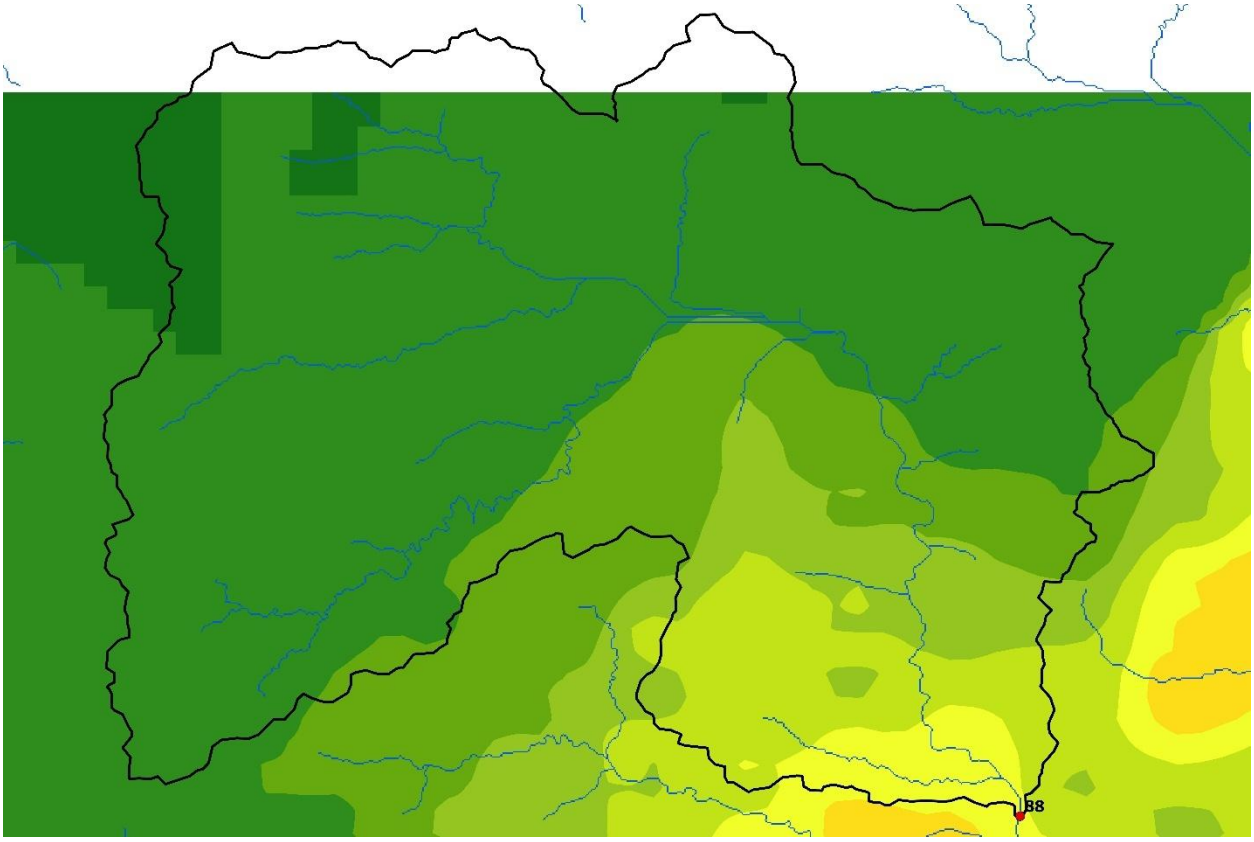

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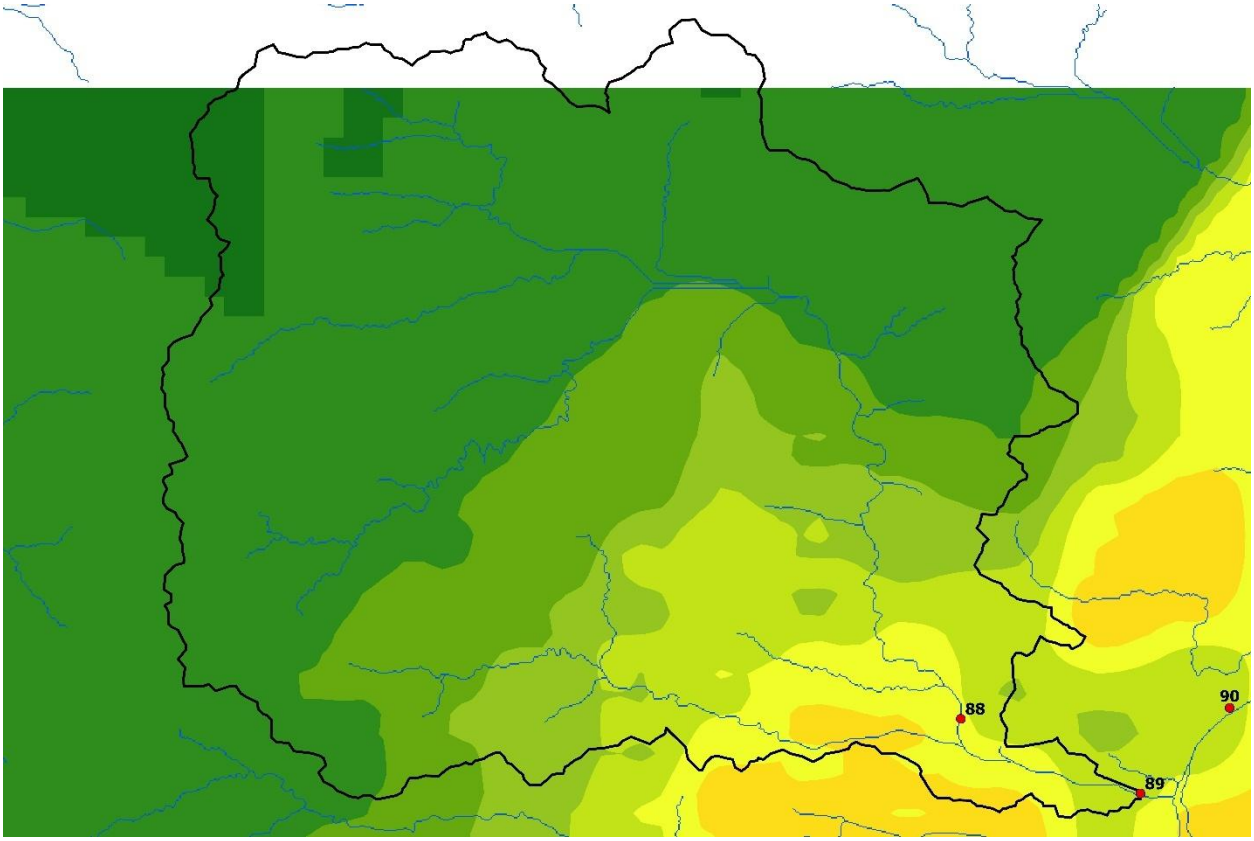

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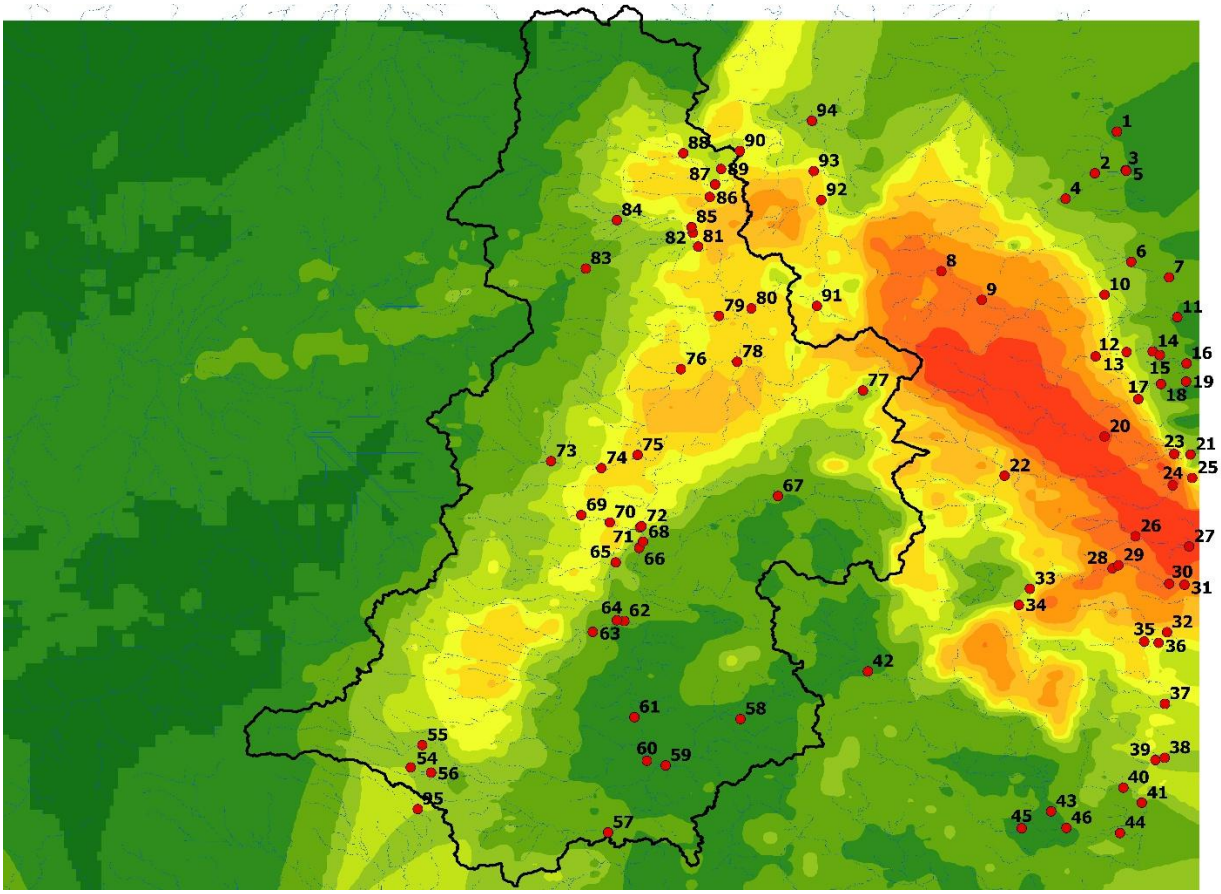

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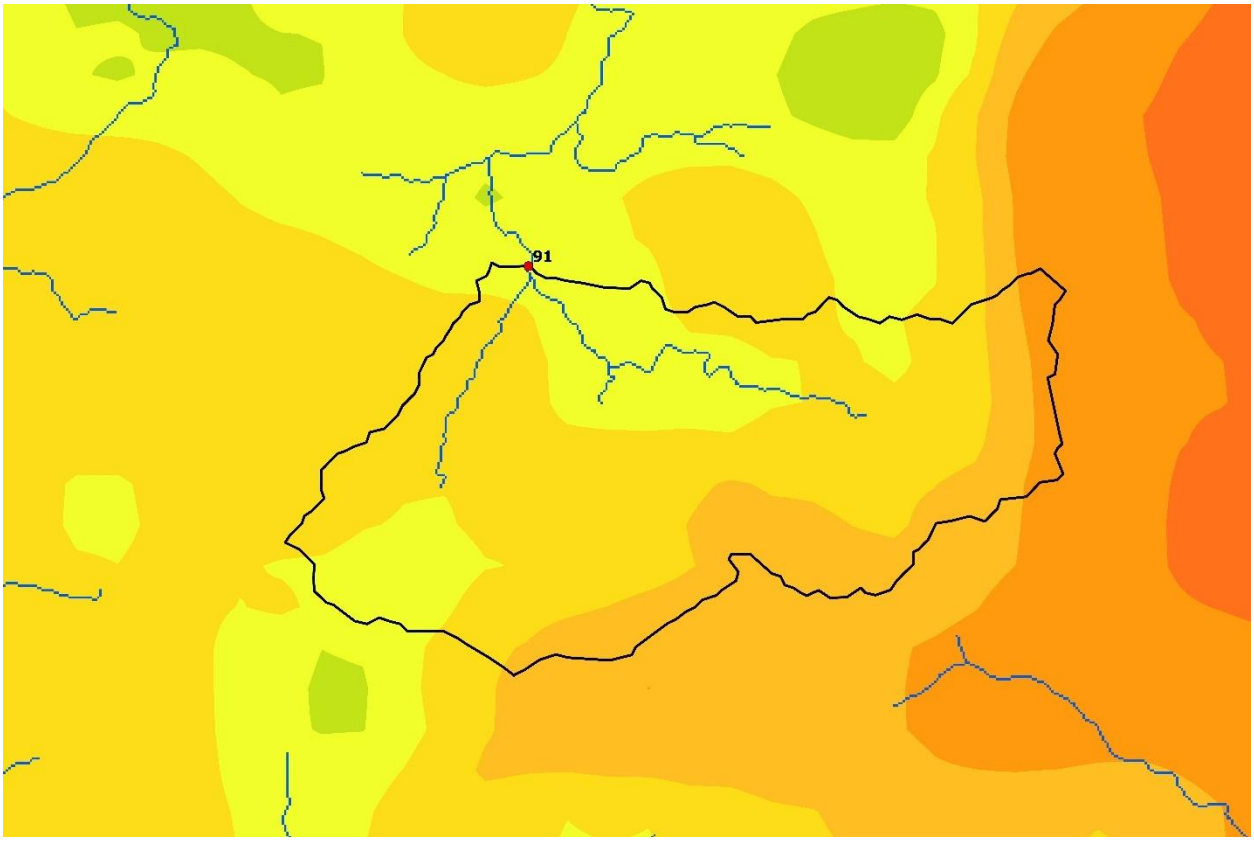

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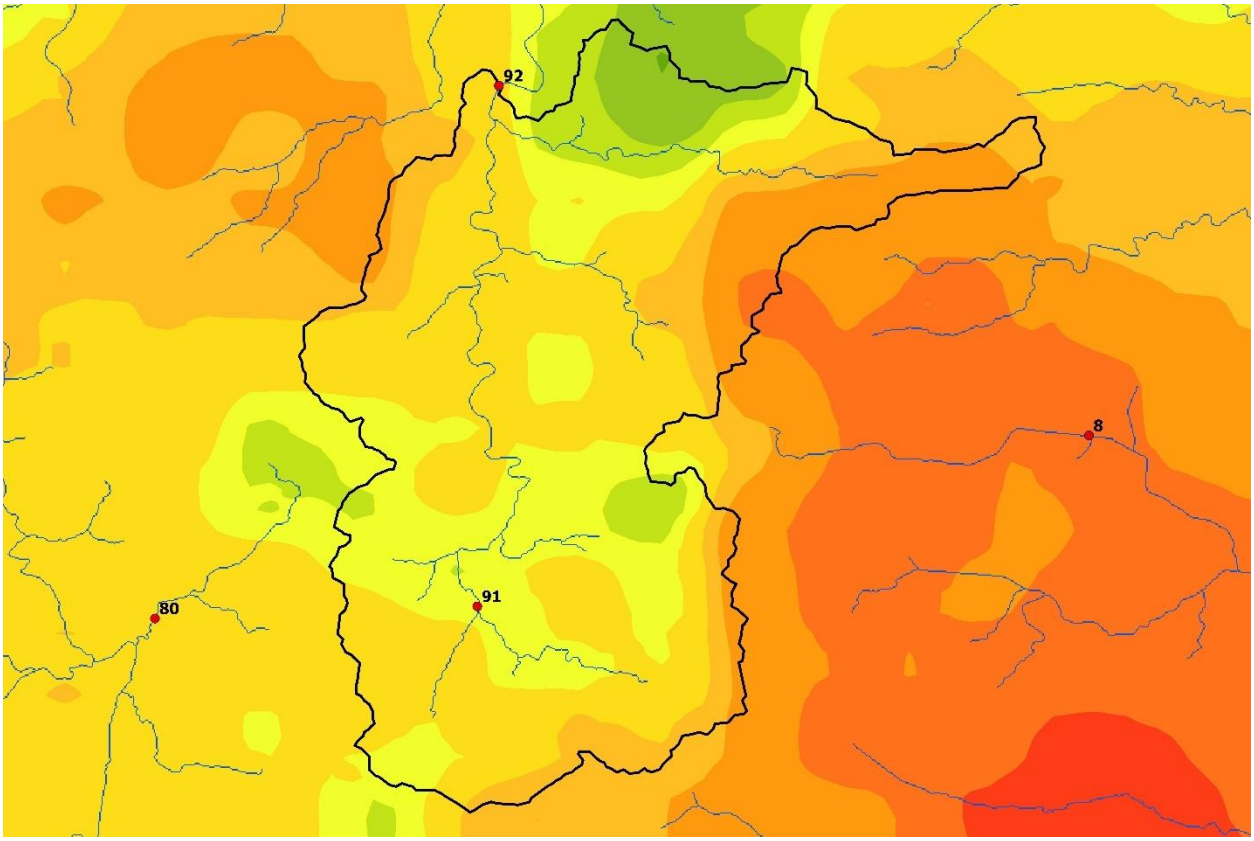

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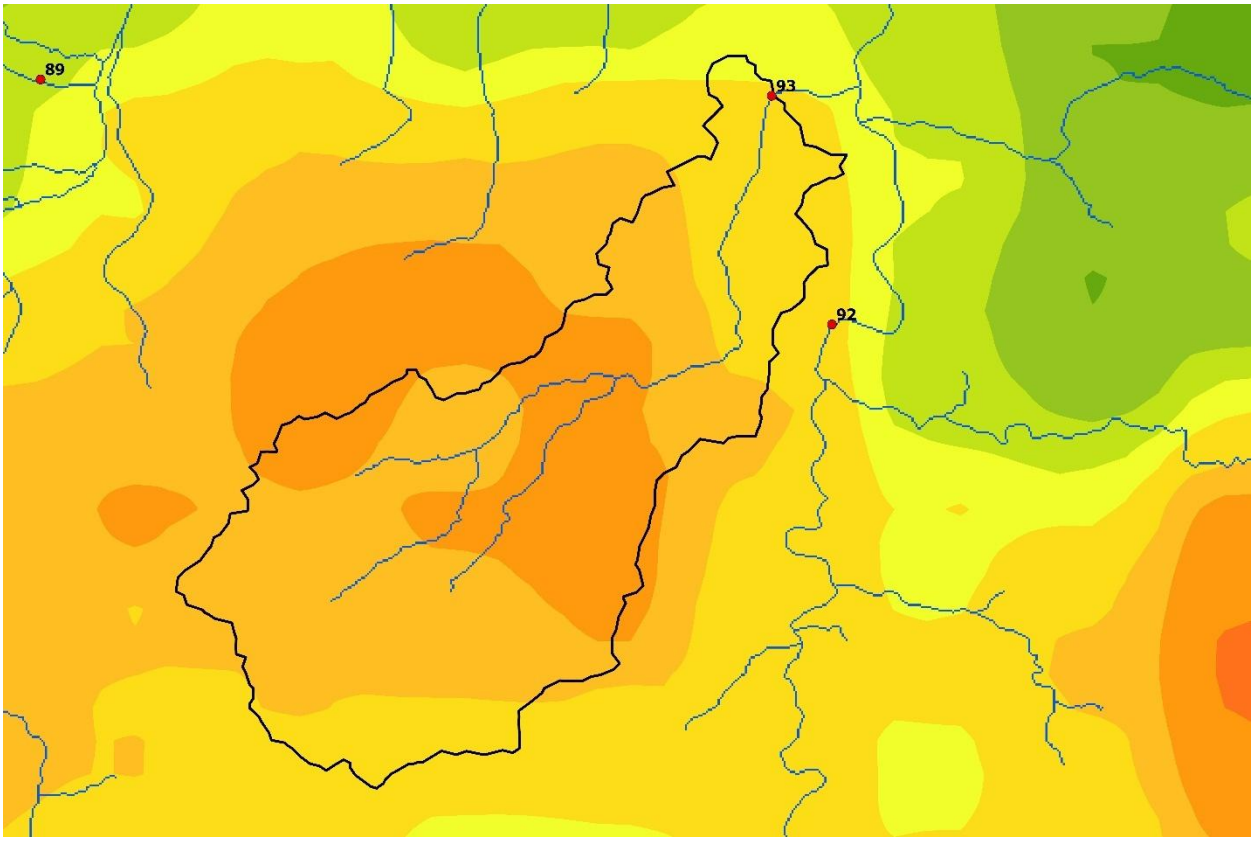

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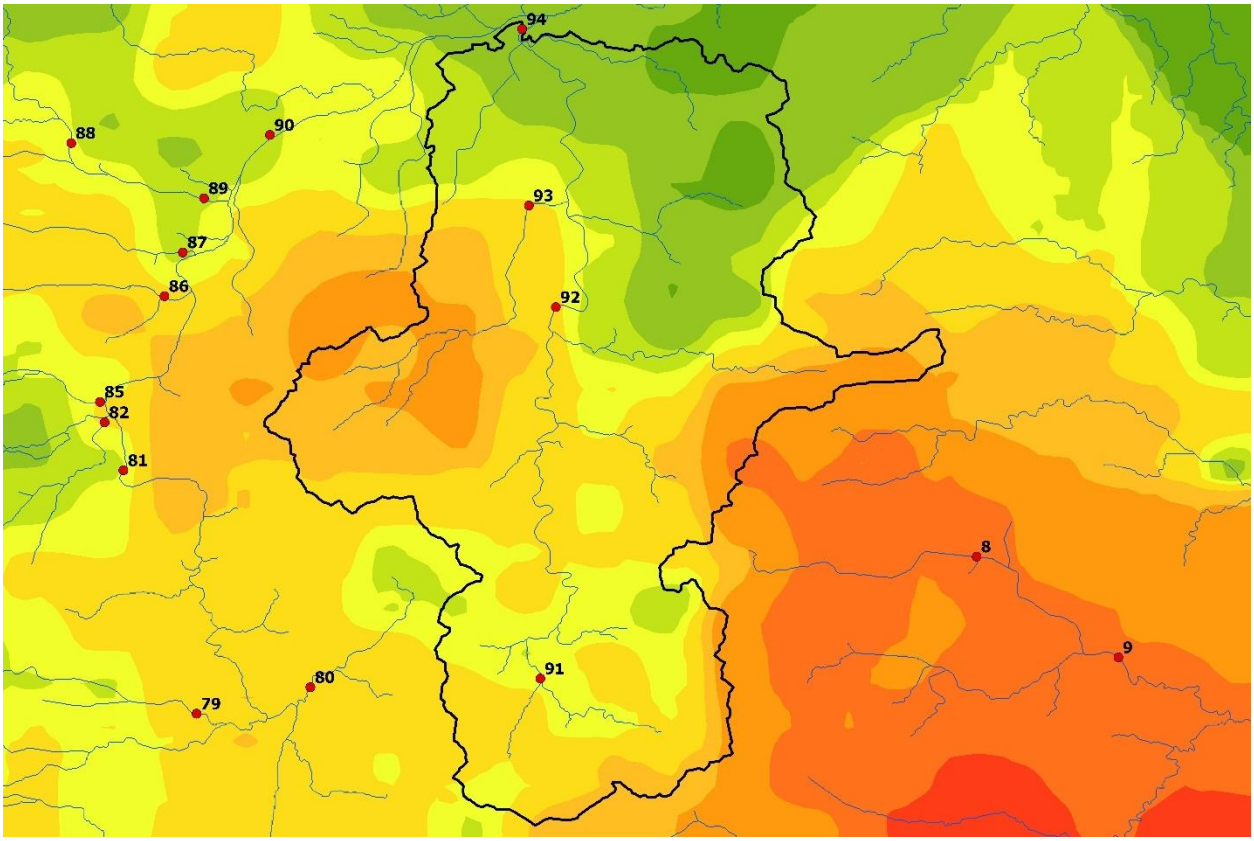

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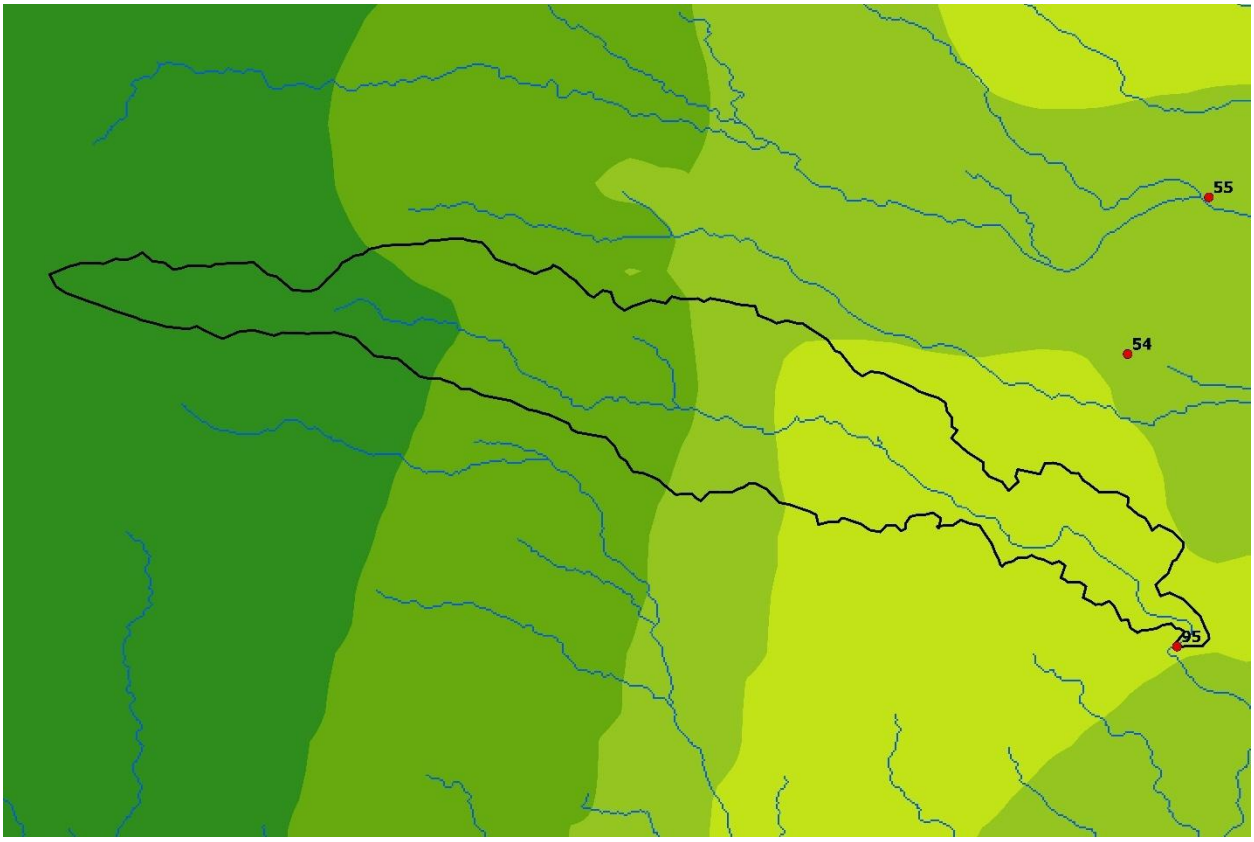

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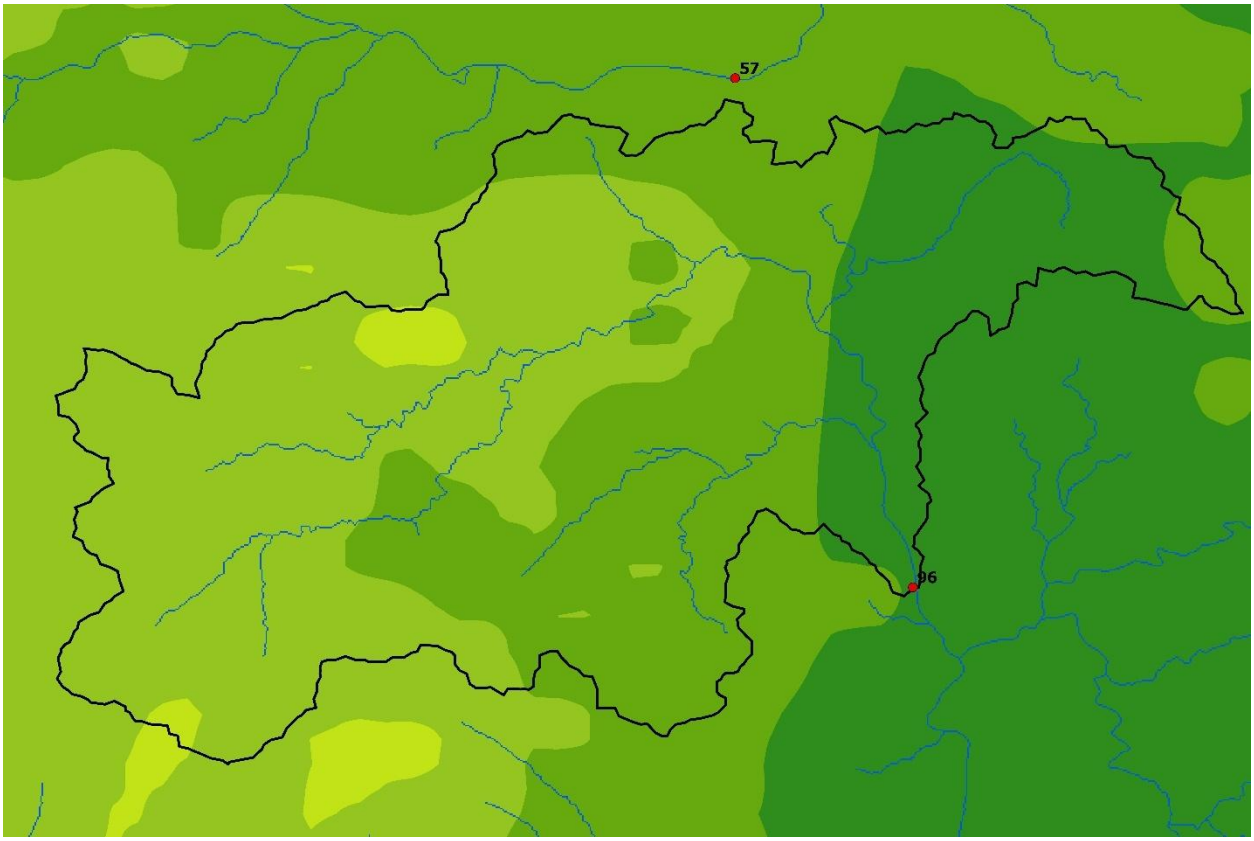

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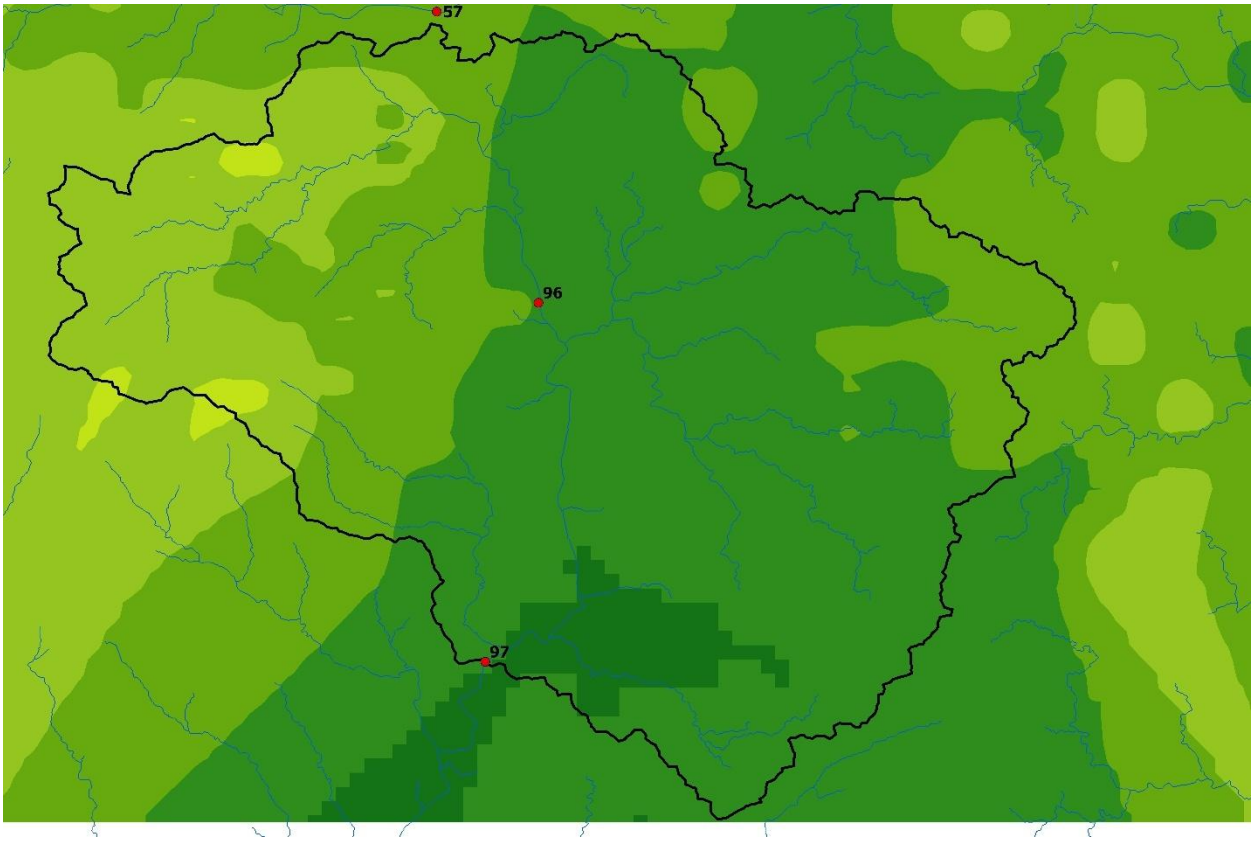

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I: Ratio Analysis Tables for Sites 1-97:

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/Pl
1_1	11/23/11	1500	1900	3400	0.28	590	770	1360	0.22	0.25	254	0.791368	0.98415	1.000985	0.250246	0.999016
1_2	1/6/12	560	760	1320	0.33	1300	1800	3100	0.22	0.275	298	0.759932	0.98143	0.989106	0.247277	1.112115
1_3	3/1/12	1000	1400	2400	0.38	900	1200	2100	0.25	0.315	353	0.722387	0.978041	0.974811	0.243703	1.292558
1_4	5/21/12	9.3	390	570	0.25	7.8	300	440	0.21	0.23	434	0.670445	0.973071	0.954819	0.238705	0.963534
1_5	7/19/12	9.1	530	800	0.28	12	890	1400	0.2	0.24	493	0.634977	0.969466	0.941006	0.235252	1.020185
1_6	8/31/12	9.2	520	790	0.2	13	800	1300	0.15	0.175	536	0.610315	0.966848	0.931316	0.232829	0.751625
1_7	11/8/12	14	950	1600	0.21	13	1000	1700	0.16	0.185	605	0.572728	0.96266	0.916396	0.229099	0.807511
1_8	12/18/12	8.5	450	800	0.27	12	590	1100	0.26	0.265	645	0.552008	0.960241	0.908086	0.227022	1.16729
1_9	5/14/13	540	1100	1640	0.218	360	750	1110	0.154	0.186	792	0.482095	0.951404	0.879531	0.219883	0.845905
1_10	6/24/13	490	1000	1490	0.17	650	1300	1950	0.14	0.155	833	0.464226	0.948953	0.872085	0.218021	0.710939
1_11	8/6/13	410	880	1290	0.18	740	1600	2340	0.11	0.145	876	0.446196	0.94639	0.864504	0.216126	0.670905
1_12	10/3/13	350	770	1120	0.188	360	880	1240	0.114	0.151	934	0.422981	0.942944	0.854629	0.213657	0.706739
1_13	12/3/13	380	930	1310	0.172	200	440	640	0.12	0.146	995	0.399867	0.939333	0.84466	0.211165	0.691402
1_14	2/4/14	470	1200	1670	0.192	410	1000	1410	0.138	0.165	1058	0.37732	0.935618	0.834788	0.208697	0.79062
1_15	5/9/14	360	920	1280	0.16	310	780	1090	0.15	0.155	1152	0.346021	0.930102	0.820809	0.205202	0.755352
1_16	6/2/14	310	860	1170	0.15	360	990	1350	0.13	0.14	1176	0.338454	0.928699	0.817376	0.204344	0.685119
1_17	8/19/14	460	1400	1860	0.16	190	610	800	0.1	0.13	1254	0.314987	0.924154	0.806581	0.201645	0.644697
1_18	10/22/14	300	950	1250	0.16	190	680	870	0.11	0.135	1318	0.296953	0.920441	0.798116	0.199529	0.676593
1_19	12/11/14	380	1200	1580	0.16	560	1900	2460	0.09	0.125	1368	0.283585	0.917551	0.791736	0.197934	0.631523
1_20	2/12/15	360	1200	1560	0.15	210	710	920	0.09	0.12	1431	0.267595	0.913922	0.783973	0.195993	0.612266
1_21	5/8/15	400	1600	2000	0.14	300	1100	1400	0.11	0.125	1516	0.247441	0.909049	0.773958	0.19349	0.64603
1_22	6/20/15	500	1900	2400	0.11	500	1900	2400	0.09	0.1	1559	0.23783	0.906594	0.769082	0.19227	0.520101
1_23	8/6/15	270	1200	1470	0.14	310	1300	1610	0.11	0.125	1606	0.227753	0.903917	0.763891	0.190973	0.654544
1_24	10/16/15	230	1100	1330	0.13	160	700	860	0.1	0.115	1677	0.213333	0.89989	0.756311	0.189078	0.608216
1_25	12/9/15	270	1100	1370	0.13	230	1100	1330	0.09	0.11	1731	0.20298	0.896838	0.750746	0.187687	0.586084
1_26	2/8/16	240	1300	1540	0.1	190	880	1070	0.07	0.085	1792	0.191888	0.893404	0.744658	0.186164	0.456586
1_27	5/2/16	180	990	1170	0.12	170	880	1050	0.08	0.1	1876	0.177599	0.888696	0.736597	0.184149	0.543038
1_28	6/21/16	230	1400	1630	0.11	190	970	1160	0.07	0.09	1926	0.169604	0.885905	0.731967	0.182992	0.491825
1_29	8/2/16	180	1100	1280	0.1	73	410	483	0.08	0.09	1968	0.163167	0.883568	0.72817	0.182043	0.49439
1_30	10/4/16	120	700	820	0.11	67	390	457	0.07	0.09	2031	0.153967	0.880073	0.722625	0.180656	0.498184
1_31	12/8/16	120	900	1020	0.1	130	730	860	0.08	0.09	2096	0.145018	0.876483	0.717084	0.179271	0.502033
1_32	2/1/17	160	1100	1260	0.09	74	470	544	0.07	0.08	2151	0.137853	0.873456	0.712532	0.178133	0.449103
1_33	5/4/17	110	770	880	0.08	20	180	200	0.05	0.065	2243	0.126651	0.868416	0.705178	0.176295	0.368701
1_34	6/13/17	72	580	652	0.1	22	140	162	0.06	0.08	2283	0.122069	0.866234	0.702078	0.17552	0.45579
1_35	8/4/17	61	550	611	0.1	13	98	111	0.06	0.08	2335	0.116359	0.863405	0.698131	0.174533	0.458367
1_36	10/4/17	95	800	895	0.09	13	110	123	0.06	0.075	2396	0.110001	0.860098	0.693615	0.173404	0.432516
1_37	12/7/17	100	880	980	0.09	11	120	131	0.06	0.075	2460	0.103703	0.856643	0.689004	0.172251	0.435411
1_38	2/18/18	150	1400	1550	0.07	10	110	120	0.05	0.06	2533	0.096958	0.852719	0.683895	0.170974	0.350931
1_39	5/3/18	65	530	595	0.09	7.7	30	30	0.05	0.07	2607	0.090569	0.848759	0.678868	0.169717	0.412451
1_40	6/13/18	100	980	1080	0.07	5.9	38	38	0.05	0.06	2648	0.087212	0.846573	0.676147	0.169037	0.354952
1_41	8/6/18	51	530	581	0.07	6.4	36	36	0.05	0.06	2702	0.082979	0.843702	0.672628	0.168157	0.35681
1_42	10/6/18	76	840	916	0.11	4.9	24	24	0.06	0.085	2763	0.078445	0.840471	0.668738	0.167185	0.50842
1_43	11/10/18	37	480	517	0.1	6.8	39	39	0.06	0.08	2798	0.075956	0.838623	0.666546	0.166636	0.480087
1_44	12/5/18	120	1400	1520	0.08	5.1	17	17	0.05	0.065	2823	0.074227	0.837305	0.664997	0.166249	0.390979
1_45	5/4/19	46	580	626	0.1	4.1	40	40	0.05	0.075	2973	0.064647	0.829442	0.655985	0.163996	0.457328
1_46	6/2/19	76	1000	1076	0.09	6.1	45	45	0.06	0.075	3002	0.062943	0.827931	0.654295	0.163574	0.458509
1_47	8/14/19	48	650	698	0.11	5.4	34	34	0.06	0.085	3075	0.058849	0.824138	0.650112	0.162528	0.522987
1_48	10/10/19	40	510	550	0.06	5.7	26	26	0.06	0.06	3132	0.055838	0.821188	0.646913	0.161728	0.370992
1_49	11/10/19	38	640	678	0.06	5.3	87	92.3	0.05	0.055	3163	0.054266	0.819589	0.645197	0.161299	0.340981
1_50	12/2/19	5.8	61	66.8	0.06	7.1	75	75	0.06	0.06	3185	0.053178	0.818455	0.643989	0.160997	0.372677
1_51	8/16/20	4.3	8.5	8.5	0.04	4.9	23	23	0.04	0.04	3443	0.041928	0.80528	0.630385	0.157596	0.253813
1_52	10/4/20	4.8	7.2	7.2	0.05	5	28	28	0.05	0.05	3492	0.040078	0.802802	0.627909	0.156977	0.318518
1_53	11/19/20	5.5	9.7	9.7	0.05	6.3	34	34	0.06	0.055	3538	0.038415	0.800483	0.625613	0.156403	0.351655
1_54	12/4/20	4.7	7.2	7.2	0.05	6.6	120	120	0.07	0.06	3553	0.037888	0.799728	0.62487	0.156217	0.38408
1_55	5/20/21	7.6	18	18	0.04	9	36	36	0.04	0.04	3720	0.032485	0.791371	0.61678	0.154195	0.259412
1_56	6/1/21	6.1	11	11	0.05	9.3	55	55	0.06	0.055	3732	0.032128	0.790774	0.616211	0.154053	0.35702
1_57	8/7/21	5.5	15	15	0.05	8.3	40	40	0.05	0.05	3799	0.030205	0.787449	0.613063	0.153266	0.326231
1_58	10/16/21	7.8	12	12	0.05	8.8	29	29	0.06	0.055	3869	0.028319	0.783989	0.609823	0.152456	0.36076
1_59	11/11/21	7.5	16	16	0.04	6.3	21	21	0.05	0.045	3895	0.027648	0.782708	0.608632	0.152158	0.295745
1_60	12/3/21	8.7	14	14	0.05	7.7	56	56	0.05	0.05	3917	0.027094	0.781626	0.60763	0.151907	0.329148
1_61	5/9/22	7.4	23	23	0.05	8.3	16	16	0.05	0.05	4074	0.023445	0.773945	0.600605	0.150151	0.332997
1_62	6/6/22	5.5	16	16	0.04	7.5	9.6	9.6	0.03	0.035	4102	0.022848	0.772583	0.599375	0.149844	0.233577
1_63	8/1/22	6.5	26	26	0.04	5.4	46	46	0.05	0.045	4158	0.021699	0.769866	0.596935	0.149234	0.301541
1_64	10/3/22	5.7	7.3		0.04	5.9	22	22	0.04	0.04	4221	0.020476	0.766822	0.594219	0.148555	0.269261
1_65	11/3/22	5.7	11	11	0.05	8.7	10	10	0.06	0.055	4252	0.019899	0.765328	0.592895	0.148224	0.371061
1_66	12/5/22	5.2	13	13	0.06	7	29	29	0.05	0.055	4284	0.019321	0.763789	0.591535	0.147884	0.371914
1_67	5/2/23	5.4	8.2	8.2	0.04	8.1	20	20	0.05	0.045	4432	0.016859	0.756712	0.585342	0.146336	0.307512
1_68	6/14/23	9	8.1		0.04	6.8	21	21	0.05	0.045	4475	0.016204	0.754668	0.583572	0.145893	0.308445
1_69	8/14/23	7	7.6	7.6	0.04	5.5	24	24	0.05	0.045	4536	0.015318	0.751778	0.58108	0.14527	0.309768
1_70	10/3/23	5.5	9.6	9.6	0.05	7.1	26	26	0.05	0.05	4586	0.014629	0.749417	0.579056	0.144764	0.34539
1_71	11/11/23	5.1	9.3	9.3	0.05	6	19	19	0.05	0.05	4625	0.014113	0.747581	0.577487	0.144372	0.346328
1_72	12/25/23	7.8	9.4	9.4	0.05	9	20	20	0.06	0.055	4669	0.013552	0.745515	0.575729	0.143932	0.382124
1_73	5/1/24	7.2	8.2	8.2	0.05	8.8	18	18	0.06	0.055	4797	0.012045	0.739537	0.570676	0.142669	0.385507
1_74	6/5/24	7.6	9.4	9.4	0.05	6.9	22	22	0.05	0.05	4832	0.011662	0.73791	0.569311	0.142328	0.351302
1_75	8/15/24	5.9	12	12	0.04	8.5	28	28	0.05	0.045	4903	0.010924	0.734622	0.56656	0.14164	0.317707

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
2_1	11/24/11	1200	1600	2800	0.34	1300	1600	2900	0.35	0.345	255	0.790639	0.984088	1.00071	0.345245	0.99929
2_2	1/16/12	1200	1500	2700	0.33	2000	2700	4700	0.35	0.34	308	0.752963	0.980813	0.986462	0.340329	0.999032
2_3	3/1/12	1100	1400	2500	0.35	750	990	1740	0.34	0.345	353	0.722387	0.978041	0.974811	0.33631	1.02584
2_4	5/22/12	15	970	1500	0.24	16	1100	1600	0.3	0.27	435	0.669828	0.973009	0.95458	0.32933	0.819846
2_5	7/19/12	20	1500	2500	0.33	14	580	930	0.31	0.32	493	0.634977	0.969466	0.941006	0.324647	0.985686
2_6	8/27/12	16	1400	2200	0.24	14	1100	1800	0.25	0.245	532	0.612569	0.967091	0.932204	0.32161	0.761791
2_7	11/8/12	14	700	1200	0.27	14	720	1300	0.26	0.265	605	0.572728	0.96266	0.916396	0.316157	0.838192
2_8	12/17/12	15	710	1300	0.31	8.8	290	540	0.33	0.32	644	0.552516	0.960302	0.908291	0.31336	1.021188
2_9	5/15/13	840	1700	2540	0.214	550	1100	1650	0.234	0.224	793	0.481651	0.951344	0.879347	0.303375	0.738361
2_10	6/24/13	860	1700	2560	0.214	740	1500	2240	0.2275	0.22075	833	0.464226	0.948953	0.872085	0.300869	0.733707
2_11	8/6/13	1200	2300	3500	0.25	650	1400	2050	0.21	0.23	876	0.446196	0.94639	0.864504	0.298254	0.771155
2_12	10/3/13	720	1600	2320	0.244	670	1600	2270	0.206	0.225	934	0.422981	0.942944	0.854629	0.294847	0.763107
2_13	12/3/13	550	1300	1850	0.25	760	1800	2560	0.21	0.23	995	0.399867	0.939333	0.84466	0.291408	0.789272
2_14	2/4/14	790	2000	2790	0.228	720	1800	2520	0.182	0.205	1058	0.37732	0.935618	0.834788	0.288002	0.711801
2_15	5/9/14	550	1500	2050	0.2	350	940	1290	0.22	0.21	1152	0.346021	0.930102	0.820809	0.283179	0.74158
2_16	6/2/14	560	1600	2160	0.2	490	1400	1890	0.17	0.185	1176	0.338454	0.928699	0.817376	0.281995	0.656041
2_17	8/19/14	540	1700	2240	0.16	460	1500	1960	0.17	0.165	1254	0.314987	0.924154	0.806581	0.27827	0.592948
2_18	10/22/14	470	1300	1770	0.19	340	1000	1340	0.19	0.19	1318	0.296953	0.920441	0.798116	0.27535	0.69003
2_19	12/11/14	550	1600	2150	0.17	670	2200	2870	0.22	0.195	1368	0.283585	0.917551	0.791736	0.273149	0.713896
2_20	2/12/15	450	1700	2150	0.15	460	1600	2060	0.17	0.16	1431	0.267595	0.913922	0.783973	0.270471	0.591561
2_21	5/25/15	360	1400	1760	0.13	520	1900	2420	0.19	0.16	1533	0.243596	0.908077	0.772016	0.266345	0.600724
2_22	6/25/15	450	1500	1950	0.14	330	1300	1630	0.14	0.14	1564	0.236737	0.906308	0.768523	0.26514	0.528022
2_23	8/4/15	410	1500	1910	0.14	390	1400	1790	0.17	0.155	1604	0.228173	0.904031	0.764109	0.263618	0.587973
2_24	10/18/15	250	1100	1350	0.15	400	1700	2100	0.15	0.15	1679	0.21294	0.899776	0.756102	0.260855	0.575032
2_25	12/9/15	240	1100	1340	0.15	350	1600	1950	0.15	0.15	1731	0.20298	0.896838	0.750746	0.259007	0.579134
2_26	2/9/16	370	1700	2070	0.11	270	1200	1470	0.13	0.12	1793	0.191711	0.893347	0.74456	0.256873	0.467157
2_27	5/2/16	160	900	1060	0.11	280	1400	1680	0.14	0.125	1876	0.177599	0.888696	0.736597	0.254126	0.491882
2_28	6/14/16	93	570	663	0.09	140	860	1000	0.11	0.1	1919	0.170701	0.886295	0.732608	0.25275	0.395648
2_29	8/2/16	150	860	1010	0.09	300	1600	1900	0.1	0.095	1968	0.163167	0.883568	0.72817	0.251219	0.378157
2_30	10/4/16	160	930	1090	0.09	250	1500	1750	0.11	0.1	2031	0.153967	0.880073	0.722625	0.249306	0.401114
2_31	12/5/16	110	660	770	0.09	240	1500	1740	0.1	0.095	2093	0.145419	0.876648	0.717336	0.247481	0.383868
2_32	2/3/17	61	390	451	0.09	95	660	755	0.08	0.085	2153	0.137599	0.873346	0.712369	0.245767	0.345856
2_33	5/4/17	69	560	629	0.09	150	920	1070	0.12	0.105	2243	0.126651	0.868416	0.705178	0.243287	0.43159
2_34	6/13/17	49	440	489	0.09	190	1300	1490	0.06	0.075	2283	0.122069	0.866234	0.702078	0.242217	0.30964
2_35	8/13/17	60	610	670	0.09	130	920	1050	0.09	0.09	2344	0.115399	0.862916	0.697457	0.240623	0.37403
2_36	10/10/17	51	430	481	0.08	300	2500	2800	0.09	0.085	2402	0.109395	0.859774	0.693178	0.239146	0.355431
2_37	12/7/17	66	590	656	0.07	110	950	1060	0.1	0.085	2460	0.103703	0.856643	0.689004	0.237706	0.357584
2_38	2/14/18	98	1000	1098	0.08	88	830	918	0.09	0.085	2529	0.097316	0.852933	0.684171	0.236039	0.36011
2_39	5/14/18	62	570	632	0.07	73	800	873	0.09	0.08	2618	0.089656	0.848172	0.678134	0.233956	0.341944
2_40	6/13/18	64	640	704	0.07	73	830	903	0.08	0.075	2648	0.087212	0.846573	0.676147	0.233271	0.321515
2_41	8/6/18	68	660	728	0.06	140	1200	1340	0.07	0.065	2702	0.082979	0.843702	0.672628	0.232057	0.280104
2_42	10/4/18	60	700	760	0.1	150	1500	1650	0.12	0.11	2761	0.07859	0.840577	0.668864	0.230758	0.476689
2_43	11/10/18	53	650	703	0.09	94	1200	1294	0.09	0.09	2798	0.075956	0.838623	0.666546	0.229958	0.391375
2_44	12/14/18	51	560	611	0.11	39	490	529	0.1	0.105	2832	0.073614	0.836831	0.664443	0.229233	0.45805
2_45	5/14/19	30	300	330	0.08	40	560	600	0.09	0.085	2983	0.064054	0.828921	0.6554	0.226113	0.375918
2_46	6/3/19	26	350	376	0.11	56	790	846	0.1	0.105	3003	0.062885	0.827879	0.654237	0.225712	0.465195
2_47	8/24/19	30	330	360	0.08	63	970	1033	0.09	0.085	3085	0.058309	0.82362	0.649547	0.224094	0.379306
2_48	10/3/19	31	420	451	0.09	50	770	820	0.1	0.095	3125	0.0562	0.82155	0.647303	0.22332	0.425399
2_49	11/15/19	32	540	572	0.08	11	180	191	0.09	0.085	3168	0.054017	0.819331	0.644922	0.222498	0.382026
2_50	12/2/19	21	360	381	0.1	18	350	368	0.09	0.095	3185	0.053178	0.818455	0.643989	0.222176	0.427588
2_51	8/17/20	8.3	140	140	0.05	13	230	243	0.05	0.05	3444	0.04189	0.80523	0.630334	0.217465	0.229922
2_52	10/2/20	7.7	150	157.7	0.08	37	720	757	0.08	0.08	3490	0.040152	0.802903	0.628009	0.216663	0.369237
2_53	11/19/20	9.4	150	150	0.07	36	610	646	0.09	0.08	3538	0.038415	0.800483	0.625613	0.215836	0.370651
2_54	12/4/20	5.6	120	125.6	0.09	24	550	574	0.09	0.09	3553	0.037888	0.799728	0.62487	0.21558	0.417478
2_55	5/20/21	8.7	170	178.7	0.08	14	510	524	0.09	0.085	3720	0.032485	0.791371	0.61678	0.212789	0.399456
2_56	6/1/21	8.5	150	150	0.06	10	290	300	0.08	0.07	3732	0.032128	0.790774	0.616211	0.212593	0.329268
2_57	8/7/21	16	380	396	0.07	19	580	599	0.08	0.075	3799	0.030205	0.787449	0.613063	0.211507	0.354599
2_58	10/19/21	6.9	200	200	0.07	27	530	557	0.08	0.075	3872	0.02824	0.783841	0.609685	0.210341	0.356563
2_59	11/15/21	5.8	150	155.8	0.08	16	630	646	0.08	0.08	3899	0.027547	0.782511	0.60845	0.209915	0.381106
2_60	12/7/21	9.9	170	170	0.08	15	490	505	0.08	0.08	3921	0.026994	0.781429	0.607448	0.20957	0.381735
2_61	5/9/22	6.7	130	130	0.07	6.9	270	270	0.08	0.075	4074	0.023445	0.773945	0.600605	0.207209	0.361954
2_62	6/6/22	7.5	140	140	0.05	18	620	638	0.05	0.05	4102	0.022848	0.772583	0.599375	0.206784	0.241798
2_63	8/1/22	9.1	230	230	0.06	13	410	423	0.07	0.065	4158	0.021699	0.769866	0.596935	0.205942	0.315622
2_64	10/3/22	9.8	150	150	0.05	14	670	684	0.05	0.05	4221	0.020476	0.766822	0.594219	0.205006	0.243896
2_65	11/3/22	7.8	370	377.8	0.06	15	540	555	0.07	0.065	4252	0.019899	0.765328	0.592895	0.204549	0.317773
2_66	12/5/22					31	990	1021	0.08	0.08	4284	0.019321	0.763789	0.591535	0.20408	0.392004
2_67	5/29/23				0.07	10	270	270	0.07	0.07	4459	0.016444	0.755428	0.584229	0.201559	0.347293
2_68	6/28/23					6.9	100	100	0.07	0.07	4489	0.015996	0.754004	0.582998	0.201134	0.348026
2_69	8/15/23					7.6	300	307.6	0.06	0.06	4537	0.015304	0.751731	0.58104	0.200459	0.299314
2_70	5/1/24				0						4797	0.012045	0.739537	0.570676	0.196883	0
2_71	8/17/24				0.06	9.1	230	230	0.07	0.065	4905	0.010904	0.73453	0.566483	0.195437	0.332589

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
3_1	11/28/11	1400	2000	3400	0.38	1600	2000	3600	0.35	0.365	259	0.787731	0.983841	0.999614	0.364859	1.000386
3_2	1/7/12	830	1000	1830	0.4	1000	1400	2400	0.38	0.39	299	0.759232	0.981369	0.988841	0.360927	1.080551
3_3	3/1/12	1600	2200	3800	0.36	380	500	880	0.32	0.34	353	0.722387	0.978041	0.974811	0.355806	0.955577
3_4	5/22/12	8.4	320	490	0.33	14	660	1000	0.24	0.285	435	0.669828	0.973009	0.95458	0.348422	0.817975
3_5	7/19/12	14	870	1400	0.36	12	570	920	0.34	0.35	493	0.634977	0.969466	0.941006	0.343467	1.01902
3_6	8/27/12	11	520	790	0.17	6.6	160	270	0.3	0.235	532	0.612569	0.967091	0.932204	0.340255	0.690659
3_7	11/8/12	13	910	1600	0.29	14	990	1700	0.3	0.295	605	0.572728	0.96266	0.916396	0.334485	0.881954
3_8	12/17/12	12	670	1200	0.32	20	1600	2900	0.32	0.32	644	0.552516	0.960302	0.908291	0.331526	0.965233
3_9	5/14/13	1600	3200	4800	0.246	590	1200	1790	0.22	0.233	792	0.482095	0.951404	0.879531	0.321029	0.725792
3_10	6/21/13	690	1500	2190	0.234	1100	2400	3500	0.24	0.237	830	0.46551	0.949132	0.872623	0.318507	0.744096
3_11	8/6/13	850	1800	2650	0.23	280	580	860	0.21	0.22	876	0.446196	0.94639	0.864504	0.315544	0.697209
3_12	10/3/13	730	1700	2430	0.23	1100	2500	3600	0.22	0.225	934	0.422981	0.942944	0.854629	0.31194	0.721293
3_13	12/3/13	660	1600	2260	0.24	550	1400	1950	0.224	0.232	995	0.399867	0.939333	0.84466	0.308301	0.752511
3_14	2/4/14	380	1000	1380	0.206	600	1500	2100	0.204	0.205	1058	0.37732	0.935618	0.834788	0.304698	0.672798
3_15	5/9/14	890	2700	3590	0.2	560	1800	2360	0.22	0.21	1152	0.346021	0.930102	0.820809	0.299595	0.700946
3_16	6/2/14	730	1900	2630	0.21	1100	2900	4000	0.2	0.205	1176	0.338454	0.928699	0.817376	0.298342	0.68713
3_17	8/19/14	490	1600	2090	0.22	260	810	1070	0.18	0.2	1254	0.314987	0.924154	0.806581	0.294402	0.679343
3_18	10/22/14	150	520	670	0.2	330	970	1300	0.17	0.185	1318	0.296953	0.920441	0.798116	0.291312	0.635057
3_19	12/11/14	400	1300	1700	0.2	490	1600	2090	0.18	0.19	1368	0.283585	0.917551	0.791736	0.288984	0.657477
3_20	2/12/15	290	1000	1290	0.18	410	1500	1910	0.14	0.16	1431	0.267595	0.913922	0.783973	0.28615	0.559147
3_21	5/25/15	540	2000	2540	0.19	540	1900	2440	0.16	0.175	1533	0.243596	0.908077	0.772016	0.281786	0.621039
3_22	6/24/15	960	3700	4660	0.18	820	3200	4020	0.16	0.17	1563	0.236956	0.906365	0.768635	0.280552	0.605949
3_23	8/4/15	480	1900	2380	0.14	250	1200	1450	0.15	0.145	1604	0.228173	0.904031	0.764109	0.2789	0.5199
3_24	10/18/15	410	1700	2110	0.15	360	1500	1860	0.14	0.145	1679	0.21294	0.899776	0.756102	0.275977	0.525406
3_25	12/6/15	440	1900	2340	0.15	480	2200	2680	0.13	0.14	1728	0.203541	0.897007	0.751051	0.274134	0.5107
3_26	2/11/16	200	1000	1200	0.11	150	750	900	0.11	0.11	1795	0.191358	0.893235	0.744364	0.271693	0.404869
3_27	5/3/16	160	830	990	0.12	370	1900	2270	0.13	0.125	1877	0.177435	0.88864	0.736503	0.268824	0.464989
3_28	6/5/16	210	1000	1210	0.12	150	930	1080	0.12	0.12	1910	0.172122	0.886797	0.733436	0.267704	0.448256
3_29	8/3/16	120	680	800	0.11	480	2900	3380	0.1	0.105	1969	0.163017	0.883512	0.728081	0.265749	0.395109
3_30	10/9/16	61	350	411	0.1	93	650	743	0.08	0.08	2036	0.153259	0.879797	0.722193	0.2636	0.30349
3_31	12/11/16	140	840	980	0.1	16	95	111	0.11	0.105	2099	0.144618	0.876317	0.716833	0.261644	0.401309
3_32	2/12/17	140	910	1050	0.09	310	2000	2310	0.09	0.09	2162	0.136463	0.872852	0.711636	0.259747	0.346491
3_33	5/4/17	100	720	820	0.1	190	1300	1490	0.08	0.09	2243	0.126651	0.868416	0.705178	0.25739	0.349664
3_34	6/1/17	87	650	737	0.11	140	1200	1340	0.11	0.11	2271	0.123426	0.866888	0.703002	0.256596	0.42869
3_35	8/5/17	61	520	581	0.09	310	2600	2910	0.11	0.1	2336	0.116252	0.863351	0.698056	0.25479	0.392479
3_36	10/4/17	81	860	941	0.11	260	2000	2260	0.11	0.11	2396	0.110001	0.860098	0.693615	0.25317	0.434491
3_37	12/6/17	150	1300	1450	0.1	210	1700	1910	0.09	0.095	2459	0.103798	0.856697	0.689075	0.251513	0.377715
3_38	2/18/18	84	810	894	0.09	180	1600	1780	0.1	0.095	2533	0.096958	0.852719	0.683895	0.249622	0.380576
3_39	5/3/18	59	640	699	0.1	110	1100	1210	0.12	0.11	2607	0.090569	0.848759	0.678868	0.247787	0.44393
3_40	6/1/18	140	1400	1540	0.06	190	2100	2290	0.09	0.075	2636	0.088181	0.847212	0.676939	0.247083	0.303542
3_41	8/13/18	82	880	962	0.1	96	1000	1096	0.1	0.1	2709	0.082446	0.843331	0.672177	0.245345	0.40759
3_42	10/6/18	140	1500	1640	0.12	160	1800	1960	0.16	0.14	2763	0.078445	0.840471	0.668738	0.244089	0.57356
3_43	11/5/18	29	360	389	0.13	180	2200	2380	0.12	0.125	2793	0.076307	0.838887	0.666857	0.243403	0.513552
3_44	12/5/18	50	610	660	0.09	75	950	1025	0.11	0.1	2823	0.074227	0.837305	0.664997	0.242724	0.411991
3_45	5/4/19	38	470	508	0.1	92	1200	1292	0.1	0.1	2973	0.064647	0.829442	0.655985	0.239435	0.417651
3_46	6/2/19	42	620	662	0.1	150	2000	2150	0.12	0.11	3002	0.062943	0.827931	0.654295	0.238818	0.460602
3_47	8/15/19	66	1000	1066	0.11	84	1200	1284	0.1	0.105	3076	0.058795	0.824086	0.650056	0.23727	0.442533
3_48	10/18/19	48	840	888	0.09	55	720	775	0.09	0.09	3140	0.055428	0.820775	0.646469	0.235961	0.381419
3_49	11/9/19	17	270	287	0.09	51	820	871	0.1	0.095	3162	0.054316	0.81964	0.645252	0.235517	0.403368
3_50	12/3/19	25	420	445	0.1	38	520	558	0.1	0.1	3186	0.053129	0.818404	0.643935	0.235036	0.425467
3_51	8/5/20	46	800	846	0.09	22	270	292	0.06	0.075	3432	0.042355	0.805838	0.630945	0.230295	0.325669
3_52	10/2/20	13	250	263	0.07	21	350	371	0.08	0.075	3490	0.040152	0.802903	0.628009	0.229223	0.327192
3_53	11/15/20	13	230	243	0.08	19	330	349	0.07	0.075	3534	0.038557	0.800684	0.625811	0.228421	0.328341
3_54	12/3/20	9.4	170	170	0.09	15	370	385	0.08	0.085	3552	0.037923	0.799778	0.624919	0.228095	0.372651
3_55	5/20/21	35	960	995	0.08	13	330	343	0.06	0.07	3720	0.032485	0.791371	0.61678	0.225125	0.310939
3_56	6/1/21	8.2	24	24	0.05	7.4	28	28	0.06	0.055	3732	0.032128	0.790774	0.616211	0.224917	0.244534
3_57	8/7/21	6.5	48	48	0.07	8.8	23	23	0.06	0.065	3799	0.030205	0.787449	0.613063	0.223768	0.290479
3_58	10/16/21	6.4	7.7		0.07	7.3	19	19	0.06	0.065	3869	0.028319	0.783989	0.609823	0.222585	0.292023
3_59	11/11/21	7.1	14	14	0.07	9.3	19	19	0.05	0.06	3895	0.027648	0.782708	0.608632	0.222151	0.270087
3_60	12/3/21	7.8	15	15	0.07	8.2	27	27	0.05	0.06	3917	0.027094	0.781626	0.60763	0.221785	0.270532
3_61	5/31/22				0.04				0.04	0.04	4096	0.022975	0.772875	0.599638	0.218868	0.182759
3_62	6/15/22				0.05				0.05	0.05	4111	0.022659	0.772146	0.598981	0.218628	0.228699
3_63	8/1/22				0.06				0.06	0.06	4158	0.021699	0.769866	0.596935	0.217881	0.275379
3_64	10/3/22				0.05				0.05	0.05	4221	0.020476	0.766822	0.594219	0.21689	0.230531
3_65	11/25/22				0.07				0.07	0.07	4274	0.0195	0.76427	0.591959	0.216065	0.323976
3_66	12/12/22				0.07				0.05	0.06	4291	0.019197	0.763453	0.591239	0.215802	0.278033
3_67	5/2/23	6.3	7.9	7.9	0.08	8.3	36	36	0.05	0.065	4432	0.016859	0.756712	0.585342	0.21365	0.304236
3_68	6/14/23	8.2	8.3		0.06	7.6	22	22	0.05	0.055	4475	0.016204	0.754668	0.583572	0.213004	0.258212
3_69	8/14/23	7.5	8.1		0.06	8.9	20	20	0.05	0.055	4536	0.015318	0.751778	0.58108	0.212094	0.259319
3_70	10/3/23	6.2	8		0.06	8.5	25	25	0.05	0.055	4586	0.014629	0.749417	0.579056	0.211355	0.260225
3_71	11/11/23	7	8		0.07	8.7	20	20	0.06	0.065	4625	0.014113	0.747581	0.577487	0.210783	0.308374
3_72	12/25/23	7	6.8		0.07	9.2	27	27	0.05	0.06	4669	0.013552	0.745515	0.575729	0.210141	0.285523
3_73	5/1/24	7.9	7		0.07	6.8	25	25	0.06	0.065	4797	0.012045	0.739537	0.570676	0.208297	0.312055
3_74	6/24/24	6.7	5.7		0.07	7.3	23	23	0.04	0.055	4851	0.01146	0.737029	0.568572	0.207529	0.265024
3_75	8/17/24	8	8.6		0.05	9.3	19	19	0.04	0.045	4905	0.010904	0.73453	0.566483	0.206766	0.217637

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
4_1	11/24/11	840	1000	1840	0.41					0.41	255	0.790639	0.984088	1.00071	0.410291	0.99929
4_2	1/16/12	770	1000	1770	0.41					0.41	308	0.752963	0.980813	0.986462	0.404449	1.013724
4_3	3/4/12	1200	1700	2900	0.35					0.35	356	0.720393	0.977856	0.974049	0.39936	0.876402
4_4	5/22/12	13	880	1300	0.34					0.34	435	0.669828	0.973009	0.95458	0.391378	0.868726
4_5	7/19/12	11	510	830	0.33					0.33	493	0.634977	0.969466	0.941006	0.385813	0.855338
4_6	8/27/12	9.1	490	780	0.27					0.27	532	0.612569	0.967091	0.932204	0.382204	0.70643
4_7	11/8/12	25	2000	3500	0.29	9.7	700	1200	0.37	0.33	605	0.572728	0.96266	0.916396	0.375722	0.878308
4_8	12/17/12	11	760	1300	0.31	7.5	160	280	0.32	0.315	644	0.552516	0.960302	0.908291	0.372399	0.845866
4_9	5/15/13	1000	2100	3100	0.214	440	910	1350	0.246	0.23	793	0.481651	0.951344	0.879347	0.360532	0.637946
4_10	6/24/13	670	1400	2070	0.238	560	1100	1660	0.278	0.258	833	0.464226	0.948953	0.872085	0.357555	0.721567
4_11	8/6/13	1000	2200	3200	0.23	890	1900	2790	0.26	0.245	876	0.446196	0.94639	0.864504	0.354446	0.691219
4_12	10/3/13	470	1100	1570	0.25	810	1800	2610	0.256	0.253	934	0.422981	0.942944	0.854629	0.350398	0.722036
4_13	12/3/13	940	2300	3240	0.23	720	1800	2520	0.3	0.265	995	0.399867	0.939333	0.84466	0.346311	0.765209
4_14	2/4/14	1600	4100	5700	0.234	530	1300	1830	0.296	0.265	1058	0.37732	0.935618	0.834788	0.342263	0.774258
4_15	5/9/14	560	1600	2160	0.22	350	1000	1350	0.29	0.255	1157	0.346021	0.930102	0.820809	0.336532	0.75773
4_16	6/2/14	620	1600	2220	0.19	45	170	215	0.21	0.2	1176	0.338454	0.928699	0.817376	0.335124	0.596794
4_17	8/19/14	1200	3600	4800	0.21	51	120	171	0.24	0.225	1254	0.314987	0.924154	0.806581	0.330698	0.680379
4_18	10/22/14	680	2100	2780	0.19	180	640	820	0.26	0.225	1318	0.296953	0.920441	0.798116	0.327228	0.687595
4_19	12/11/14	530	1700	2230	0.18	380	1300	1680	0.18	0.18	1368	0.283585	0.917551	0.791736	0.324612	0.554508
4_20	2/12/15	570	2000	2570	0.17	610	2100	2710	0.23	0.2	1431	0.267595	0.913922	0.783973	0.321429	0.622222
4_21	5/25/15	480	1800	2280	0.17	220	830	1050	0.19	0.18	1533	0.243596	0.908077	0.772016	0.316526	0.568673
4_22	6/22/15	780	2900	3680	0.16	120	430	550	0.19	0.175	1561	0.237393	0.906479	0.768858	0.315232	0.555147
4_23	8/6/15	880	3600	4480	0.14	68	240	308	0.16	0.15	1606	0.227753	0.903917	0.763891	0.313195	0.478935
4_24	10/18/15	830	3600	4430	0.11	190	830	1020	0.14	0.125	1679	0.21294	0.899776	0.756102	0.310002	0.403224
4_25	12/6/15	520	2300	2820	0.12	170	790	960	0.15	0.135	1728	0.203541	0.897007	0.751051	0.307931	0.43841
4_26	2/12/16	460	2300	2760	0.1	230	1100	1330	0.15	0.125	1796	0.191182	0.893179	0.744266	0.305149	0.409636
4_27	5/2/16	330	1700	2030	0.11	130	660	790	0.15	0.13	1876	0.177599	0.888696	0.736597	0.302005	0.430457
4_28	6/14/16	140	730	870	0.1	180	1100	1280	0.17	0.135	1919	0.170701	0.886295	0.732608	0.300369	0.449447
4_29	8/28/16	390	2200	2590	0.11	120	740	860	0.19	0.15	1994	0.159305	0.882124	0.72586	0.297603	0.504028
4_30	10/11/16	420	2400	2820	0.1	98	680	778	0.15	0.125	2038	0.152977	0.879686	0.72202	0.296028	0.422257
4_31	12/5/16	420	2500	2920	0.1	200	1300	1500	0.16	0.13	2093	0.145419	0.876648	0.717336	0.294108	0.442015
4_32	2/3/17	460	3100	3560	0.09	100	600	700	0.17	0.13	2153	0.137599	0.873346	0.712369	0.292071	0.445097
4_33	5/4/17	100	690	790	0.1	98	800	898	0.13	0.115	2243	0.126651	0.868416	0.705178	0.289123	0.397754
4_34	6/5/17	120	810	930	0.09	130	1000	1130	0.17	0.13	2275	0.122972	0.86667	0.702694	0.288104	0.451225
4_35	8/4/17	120	880	1000	0.09	220	1700	1920	0.15	0.12	2335	0.116359	0.863405	0.698131	0.286234	0.419238
4_36	10/10/17	290	2200	2490	0.09	74	630	704	0.15	0.12	2402	0.109395	0.859774	0.693178	0.284203	0.422234
4_37	12/11/17	170	1400	1570	0.08	110	870	980	0.15	0.115	2464	0.103321	0.856428	0.68872	0.282375	0.407259
4_38	2/14/18	170	1500	1670	0.09	47	460	507	0.13	0.11	2529	0.097316	0.852933	0.684171	0.28051	0.392143
4_39	5/3/18	100	970	1070	0.1	51	380	431	0.16	0.13	2607	0.090569	0.848759	0.678868	0.278336	0.467061
4_40	6/6/18	170	1600	1770	0.1	79	700	779	0.14	0.12	2641	0.087776	0.846946	0.676608	0.277409	0.432574
4_41	8/6/18	140	1500	1640	0.08	57	550	607	0.16	0.12	2702	0.082979	0.843702	0.672628	0.275777	0.435134
4_42	10/4/18	160	1700	1860	0.1	50	630	680	0.17	0.135	2761	0.07859	0.840577	0.668864	0.274234	0.49228
4_43	11/5/18	99	1200	1299	0.1	52	560	612	0.15	0.125	2793	0.076307	0.838887	0.666857	0.273412	0.457186
4_44	12/14/18	81	970	1051	0.12	40	500	540	0.17	0.145	2832	0.073614	0.836831	0.664443	0.272422	0.532263
4_45	5/4/19	79	960	1039	0.09	30	440	470	0.14	0.115	2973	0.064647	0.829442	0.655985	0.268954	0.427583
4_46	6/4/19	84	1300	1384	0.1	45	600	645	0.17	0.135	3004	0.062827	0.827827	0.654179	0.268214	0.50333
4_47	8/7/19	80	1300	1380	0.09	32	530	562	0.16	0.125	3068	0.05923	0.824501	0.650509	0.266709	0.468676
4_48	11/6/19	83	1200	1283	0.1	16	220	236	0.11	0.105	3159	0.054467	0.819795	0.645418	0.264621	0.396793
4_49	12/2/19	100	1500	1600	0.09	22	250	272	0.1	0.095	3185	0.053178	0.818455	0.643989	0.264036	0.3598
4_50	8/17/20	47	970	1017	0.06	9.5	200	209.5	0.1	0.08	3444	0.04189	0.80523	0.630334	0.258437	0.309553
4_51	10/7/20	27	590	617	0.08	9.9	180	189.9	0.11	0.095	3495	0.039967	0.802651	0.627758	0.257381	0.369103
4_52	11/19/20	28	630	658	0.09	8	150	150	0.13	0.11	3538	0.038415	0.800483	0.625613	0.256501	0.428848
4_53	12/4/20	20	490	510	0.1	8.4	150	158.4	0.13	0.115	3553	0.037888	0.799728	0.62487	0.256197	0.448874
4_54	5/20/21	42	940	982	0.08	7.6	240	247.6	0.11	0.095	3720	0.032485	0.791371	0.61678	0.25288	0.375672
4_55	6/1/21	29	580	609	0.09	9.7	170	179.7	0.1	0.095	3732	0.032128	0.790774	0.616211	0.252647	0.376019
4_56	8/7/21	29	900	929	0.08	8	140	140	0.13	0.105	3799	0.030205	0.787449	0.613063	0.251356	0.417735
4_57	10/29/21	31	850	881	0.08	8.1	180	180	0.11	0.095	3882	0.027981	0.783348	0.609227	0.249783	0.38033
4_58	11/25/21	31	880	911	0.08	9.5	180	180	0.1	0.09	3909	0.027294	0.782019	0.607994	0.249277	0.361043
4_59	12/25/21	22	750	772	0.06	7.8	200	200	0.1	0.08	3939	0.02655	0.780545	0.606632	0.248719	0.321648
4_60	5/9/22	6.9	260	260	0.07	9.1	210	219.1	0.11	0.09	4074	0.023445	0.773945	0.600605	0.246248	0.365485
4_61	6/6/22	7.2	170	177.2	0.06	9.9	140	140	0.06	0.06	4102	0.022848	0.772583	0.599375	0.245744	0.244157
4_62	8/1/22	32	1100	1132	0.08	8	180	180	0.1	0.09	4158	0.021699	0.769866	0.596935	0.244743	0.367732
4_63	10/3/22	38	1400	1438	0.06	7	130	137	0.1	0.08	4221	0.020476	0.766822	0.594219	0.24363	0.328367
4_64	11/3/22	15	600	615	0.09	6.7	170	170	0.09	0.09	4252	0.019899	0.765328	0.592895	0.243087	0.370238
4_65	12/12/22	30	990	1020	0.06	7.8	180	180	0.08	0.07	4291	0.019197	0.763453	0.591239	0.242408	0.28877
4_66	5/2/23	23	1100	1123	0.08	7.8	180	180	0.1	0.09	4432	0.016859	0.756712	0.585342	0.23999	0.375015
4_67	6/28/23	13	740	753	0.07	6.8	160	160	0.09	0.08	4489	0.015996	0.754004	0.582998	0.239029	0.334687
4_68	8/15/23	8.3	540	548.3	0.07	8.1	220	228.1	0.08	0.075	4537	0.015304	0.751731	0.58104	0.238226	0.314827
4_69	10/12/23	40	1800	1840	0.07	7.9	190	190	0.09	0.08	4595	0.014508	0.748993	0.578693	0.237264	0.337177
4_70	11/11/23	16	780	796	0.07	8.8	180	180	0.09	0.08	4625	0.014113	0.747581	0.577487	0.23677	0.337881
4_71	12/14/23	10	750	760	0.09	9.3	200	200	0.1	0.095	4658	0.01369	0.746031	0.576167	0.236229	0.402153
4_72	5/1/24	11	830	841	0.07	9	210	210	0.11	0.09	4797	0.012045	0.739537	0.570676	0.233977	0.384653
4_73	6/17/24	11	840	851	0.08	8.2	190	190	0.09	0.085	4844	0.011534	0.737354	0.568844	0.233226	0.364453
4_74	8/15/24	25	2300	2325	0.07	9	150	150	0.09	0.08	4903	0.010924	0.734622	0.56656	0.23229	0.344398

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
5_1	11/28/11	1200	1400	2600	0.4	1400	1800	3200	0.32	0.36	259	0.787731	0.983841	0.999614	0.359861	1.000386
5_2	1/7/12	3000	4100	7100	0.46	960	1200	2160	0.37	0.415	299	0.759232	0.981369	0.988841	0.355983	1.165787
5_3	2/29/12	1900	2700	4600	0.39	470	630	1100	0.33	0.36	352	0.723053	0.978103	0.975066	0.351024	1.025572
5_4	5/22/12	11	590	880	0.31	11	540	840	0.28	0.295	435	0.669828	0.973009	0.95458	0.343649	0.858435
5_5	7/19/12	14	980	1500	0.39	12	670	1100	0.32	0.355	493	0.634977	0.969466	0.941006	0.338762	1.047933
5_6	8/27/12	15	930	1500	0.28	9.2	370	590	0.28	0.28	532	0.612569	0.967091	0.932204	0.335594	0.834343
5_7	11/8/12	12	630	1100	0.28	9.9	530	890	0.24	0.26	605	0.572728	0.96266	0.916396	0.329903	0.788111
5_8	12/17/12	8.9	460	820	0.38	12	640	1200	0.38	0.38	644	0.552516	0.960302	0.908291	0.326985	1.162133
5_9	2/11/13	15	890	1700	0.23	9.2	400	710	0.18	0.205	700	0.524735	0.956925	0.897048	0.322937	0.634798
5_10	5/14/13	690	1500	2190	0.266	370	770	1140	0.218	0.242	792	0.482095	0.951404	0.879531	0.316631	0.764296
5_11	6/21/13	570	1200	1770	0.258	630	1400	2030	0.234	0.246	830	0.46551	0.949132	0.872623	0.314144	0.78308
5_12	8/6/13	1200	2700	3900	0.21	430	950	1380	0.22	0.215	876	0.446196	0.94639	0.864504	0.311221	0.690827
5_13	10/3/13	950	2000	2950	0.182	600	1400	2000	0.18	0.181	934	0.422981	0.942944	0.854629	0.307667	0.588299
5_14	12/3/13	1200	2700	3900	0.218	220	540	760	0.204	0.211	995	0.399867	0.939333	0.84466	0.304078	0.693902
5_15	2/4/14	570	1500	2070	0.218	240	570	810	0.194	0.206	1058	0.37732	0.935618	0.834788	0.300524	0.68547
5_16	5/9/14	580	1700	2280	0.22	150	450	600	0.2	0.21	1152	0.346021	0.930102	0.820809	0.295491	0.710681
5_17	6/2/14	590	1600	2190	0.18	170	520	690	0.18	0.18	1176	0.338454	0.928699	0.817376	0.294255	0.611713
5_18	8/19/14	430	1300	1730	0.21	480	1400	1880	0.19	0.2	1254	0.314987	0.924154	0.806581	0.290369	0.688778
5_19	10/22/14	250	810	1060	0.21	370	1200	1570	0.2	0.205	1318	0.296953	0.920441	0.798116	0.287322	0.713485
5_20	12/11/14	650	2300	2950	0.18	490	1600	2090	0.18	0.18	1368	0.283585	0.917551	0.791736	0.285025	0.631523
5_21	2/12/15	450	1600	2050	0.14	450	1600	2050	0.17	0.155	1431	0.267595	0.913922	0.783973	0.28223	0.549197
5_22	5/25/15	480	1900	2380	0.17	530	2000	2530	0.16	0.165	1533	0.243596	0.908077	0.772016	0.277926	0.593684
5_23	6/24/15	380	1500	1880	0.14	300	1300	1600	0.14	0.14	1563	0.236956	0.906365	0.768635	0.276708	0.505948
5_24	8/4/15	270	1100	1370	0.13	320	1300	1620	0.16	0.145	1604	0.228173	0.904031	0.764109	0.275079	0.527121
5_25	10/18/15	240	1000	1240	0.15	500	2000	2500	0.12	0.135	1679	0.21294	0.899776	0.756102	0.272197	0.495965
5_26	12/6/15	190	880	1070	0.14	280	1300	1580	0.14	0.14	1728	0.203541	0.897007	0.751051	0.270378	0.517793
5_27	2/11/16	230	1000	1230	0.11	270	1300	1570	0.12	0.115	1795	0.191358	0.893235	0.744364	0.267971	0.429151
5_28	5/3/16	110	640	750	0.13	190	1100	1290	0.14	0.135	1877	0.177435	0.88864	0.736503	0.265141	0.509163
5_29	6/5/16	33	170	203	0.1	100	550	650	0.14	0.12	1910	0.172122	0.886797	0.733436	0.264037	0.454482
5_30	8/3/16	160	810	970	0.1	110	660	770	0.09	0.095	1969	0.163017	0.883512	0.728081	0.262109	0.362445
5_31	10/9/16	50	330	380	0.11	240	1400	1640	0.11	0.11	2036	0.153259	0.879797	0.722193	0.259989	0.423094
5_32	12/11/16	86	570	656	0.08	180	1200	1380	0.1	0.09	2099	0.144618	0.876317	0.716833	0.25806	0.348756
5_33	2/12/17	140	780	920	0.09	160	1100	1260	0.11	0.1	2162	0.136463	0.872852	0.711636	0.256189	0.390337
5_34	5/4/17	48	400	448	0.08	170	1200	1370	0.1	0.09	2243	0.126651	0.868416	0.705178	0.253864	0.35452
5_35	6/1/17	76	580	656	0.09	210	1500	1710	0.11	0.1	2271	0.123426	0.866888	0.703002	0.253081	0.395131
5_36	8/5/17	82	630	712	0.08	140	1100	1240	0.08	0.08	2336	0.116252	0.863351	0.698056	0.2513	0.318344
5_37	10/4/17	62	480	542	0.08	130	990	1120	0.09	0.085	2396	0.110001	0.860098	0.693615	0.249702	0.340406
5_38	12/6/17	51	410	461	0.09	140	1200	1340	0.09	0.09	2459	0.103798	0.856697	0.689075	0.248067	0.362805
5_39	2/18/18	98	880	978	0.07	140	1300	1440	0.1	0.085	2533	0.096958	0.852719	0.683895	0.246202	0.345245
5_40	5/3/18	69	640	709	0.1	130	1400	1530	0.11	0.105	2607	0.090569	0.848759	0.678868	0.244393	0.429636
5_41	6/1/18	79	690	769	0.08	140	1500	1640	0.08	0.08	2636	0.088181	0.847212	0.676939	0.243698	0.328275
5_42	8/13/18	52	560	612	0.08	85	820	905	0.09	0.085	2709	0.082446	0.843331	0.672177	0.241984	0.351263
5_43	10/6/18	59	600	659	0.13	100	1100	1200	0.12	0.125	2763	0.078445	0.840471	0.668738	0.240746	0.51922
5_44	11/5/18	87	1100	1187	0.09	110	1100	1210	0.12	0.105	2793	0.076307	0.838887	0.666857	0.240069	0.437375
5_45	12/5/18	54	680	734	0.09	85	1100	1185	0.12	0.105	2823	0.074227	0.837305	0.664997	0.239399	0.438598
5_46	5/4/19	61	660	721	0.08	78	970	1048	0.09	0.085	2973	0.064647	0.829442	0.655985	0.236155	0.359934
5_47	6/2/19	50	590	640	0.12	92	1200	1292	0.12	0.12	3002	0.062943	0.827931	0.654295	0.235546	0.509454
5_48	8/15/19	36	580	616	0.08	92	1300	1392	0.09	0.085	3076	0.058795	0.824086	0.650056	0.23402	0.363217
5_49	11/9/19	34	600	634	0.09	33	500	533	0.1	0.095	3162	0.054316	0.81964	0.645252	0.232291	0.40897
5_50	12/3/19	37	570	607	0.1	31	440	471	0.09	0.095	3186	0.053129	0.818404	0.643935	0.231816	0.409807
5_51	8/5/20	27	430	457	0.09	16	260	276	0.08	0.085	3432	0.042355	0.805838	0.630945	0.22714	0.374218
5_52	10/2/20	21	370	391	0.08	12	230	242	0.09	0.085	3490	0.040152	0.802903	0.628009	0.226083	0.375968
5_53	11/15/20	29	510	539	0.09	19	390	409	0.12	0.105	3534	0.038557	0.800684	0.625811	0.225292	0.466062
5_54	12/3/20	25	600	625	0.08	16	380	396	0.1	0.09	3552	0.037923	0.799778	0.624919	0.224971	0.400052
5_55	5/20/21	5.7	26	26	0.07	6.2	19	19	0.06	0.065	3720	0.032485	0.791371	0.61678	0.222041	0.292739
5_56	6/1/21	17	230	247	0.06	7.8	27	27	0.07	0.065	3732	0.032128	0.790774	0.616211	0.221836	0.293009
5_57	8/7/21	5.6	30	30	0.08	8.7	36	36	0.08	0.08	3799	0.030205	0.787449	0.613063	0.220703	0.362479
5_58	10/16/21	9.4	160	169.4	0.08	8.7	33	33	0.08	0.08	3869	0.028319	0.783989	0.609823	0.219536	0.364404
5_59	11/11/21	8.4	36	36	0.07	5.5	38	38	0.07	0.07	3895	0.027648	0.782708	0.608632	0.219108	0.319478
5_60	12/3/21	15	300	315	0.08	8.2	32	32	0.07	0.075	3917	0.027094	0.781626	0.60763	0.218747	0.342862
5_61	5/31/22	8.3	76	76	0.05	7	11	11	0.04	0.045	4096	0.022975	0.772875	0.599638	0.21587	0.208459
5_62	6/15/22	2.7	52	52	0.06	3.8	64	64	0.07	0.065	4111	0.022659	0.772146	0.598981	0.215633	0.301438
5_63	8/1/22	7.4	220	220	0.08	9.8	440	449.8	0.08	0.08	4158	0.021699	0.769866	0.596935	0.214897	0.372272
5_64	10/3/22	13	320	333	0.06	9.4	14	14	0.07	0.065	4221	0.020476	0.766822	0.594219	0.213919	0.303853
5_65	11/25/22	9.4	50	50	0.08	9.3	18	18	0.07	0.075	4274	0.0195	0.76427	0.591959	0.213105	0.351939
5_66	12/12/22	9.3	56	56	0.07	8.3	19	19	0.06	0.065	4291	0.019197	0.763453	0.591239	0.212846	0.305385
5_67	5/2/23	6.7	57	57	0.07	7.5	33	33	0.07	0.07	4432	0.016859	0.756712	0.585342	0.210723	0.332189
5_68	6/14/23	6.8	43	43	0.07	9.7	14	14	0.06	0.065	4475	0.016204	0.754668	0.583572	0.210086	0.309397
5_69	8/14/23	7.5	40	40	0.07	8.6	17	17	0.05	0.06	4536	0.015318	0.751778	0.58108	0.209189	0.286822
5_70	10/12/23	6.4	60	60	0.07	7.1	16	16	0.06	0.065	4595	0.014508	0.748993	0.578693	0.208329	0.312006
5_71	11/11/23	6.9	56	56	0.05	8.5	25	25	0.06	0.055	4625	0.014113	0.747581	0.577487	0.207895	0.264556
5_72	12/25/23	9.5	45	45	0.07	8.9	23	23	0.06	0.065	4669	0.013552	0.745515	0.575729	0.207262	0.313612
5_73	5/1/24	7.9	120	120	0.07	9.4	19	19	0.06	0.065	4797	0.012045	0.739537	0.570676	0.205443	0.316389
5_74	6/24/24	6.6	52	52	0.06	8.8	15	15	0.05	0.055	4851	0.01146	0.737029	0.568572	0.204686	0.268704
5_75	8/29/24	9.3	300	300	0.05	10	39	39	0.04	0.045	4917	0.010784	0.733976	0.566021	0.203767	0.22084

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
6_1	11/29/11	750	930	1680	0.57	1100	1400	2500	0.96	0.765	260	0.787006	0.983779	0.999341	0.764496	1.000659
6_2	1/20/12	360	490	850	0.55	3700	4800	8500	0.96	0.755	312	0.750194	0.980567	0.98541	0.753839	1.001541
6_3	5/22/12	8.1	440	650	0.47	27	2400	3500	0.73	0.6	435	0.669828	0.973009	0.95458	0.730253	0.821633
6_4	7/19/12	11	520	820	0.56	34	4300	6800	0.88	0.72	493	0.634977	0.969466	0.941006	0.71987	1.000181
6_5	8/21/12	15	1200	1900	0.47	15	670	1100	0.43	0.45	526	0.615964	0.967456	0.933542	0.714159	0.630111
6_6	11/7/12	15	1000	1800	0.45	22	2000	3400	0.67	0.51	604	0.573256	0.962721	0.916607	0.701204	0.72732
6_7	12/17/12	8.1	330	600	0.52	13	540	1000	0.52	0.52	644	0.552516	0.960302	0.908291	0.694843	0.748371
6_8	5/13/13	370	760	1130	0.41	1700	3300	5000	0.678	0.544	791	0.482539	0.951464	0.879715	0.672982	0.808342
6_9	6/24/13	270	550	820	0.376	590	1300	1890	0.414	0.395	833	0.464226	0.948953	0.872085	0.667145	0.592075
6_10	8/2/13	530	1200	1730	0.36	1700	3600	5300	0.65	0.505	872	0.447843	0.946628	0.865199	0.661877	0.762981
6_11	10/3/13	450	1000	1450	0.368	2000	4600	6600	0.656	0.512	934	0.422981	0.942944	0.854629	0.653791	0.783124
6_12	12/4/13	360	860	1220	0.34	1400	3300	4700	0.61	0.475	996	0.399499	0.939274	0.8445	0.646043	0.735246
6_13	2/5/14	380	970	1350	0.32	1600	3900	5500	0.662	0.491	1059	0.376973	0.935559	0.834635	0.638496	0.768995
6_14	5/9/14	620	1700	2320	0.34	1300	3700	5000	0.58	0.46	1152	0.346021	0.930102	0.820809	0.627919	0.732579
6_15	6/2/14	470	1300	1770	0.3	1100	3400	4500	0.61	0.455	1176	0.338454	0.928699	0.817376	0.625293	0.727659
6_16	8/19/14	320	890	1210	0.32	1200	3300	4500	0.55	0.435	1254	0.314987	0.924154	0.806581	0.617034	0.704985
6_17	10/22/14	320	1000	1320	0.3	1100	3500	4600	0.52	0.41	1318	0.296953	0.920441	0.798116	0.610559	0.671516
6_18	12/10/14	270	890	1160	0.29	930	3100	4030	0.55	0.42	1367	0.283847	0.917609	0.791862	0.605774	0.693328
6_19	2/12/15	370	1300	1670	0.27	970	3500	4470	0.52	0.395	1431	0.267595	0.913922	0.783973	0.599739	0.65862
6_20	5/25/15	240	1100	1340	0.26	1500	5600	7100	0.4	0.33	1533	0.243596	0.908077	0.772016	0.590592	0.558761
6_21	6/22/15	590	2100	2690	0.24	1200	4400	5600	0.38	0.31	1561	0.237393	0.906479	0.768858	0.588176	0.527053
6_22	8/5/15	400	1500	1900	0.26	530	2300	2830	0.31	0.285	1605	0.227962	0.903974	0.764	0.58446	0.48763
6_23	10/4/15	360	1500	1860	0.28	310	1200	1510	0.39	0.335	1665	0.215704	0.900569	0.75757	0.579541	0.578043
6_24	10/4/15	380	1700	2080	0.26	510	2000	2510	0.38	0.32	1665	0.215704	0.900569	0.75757	0.579541	0.552161
6_25	10/4/15	540	2200	2740	0.26	2000	8300	10300	0.39	0.325	1665	0.215704	0.900569	0.75757	0.579541	0.560788
6_26	11/7/15	380	1600	1980	0.25	320	1400	1720	0.35	0.3	1699	0.209053	0.898645	0.754023	0.576828	0.520086
6_27	12/8/15	300	1300	1600	0.25	330	1500	1830	0.33	0.29	1730	0.203167	0.896895	0.750848	0.574399	0.504876
6_28	1/11/16	410	1800	2210	0.24	430	2000	2430	0.34	0.29	1764	0.196902	0.894978	0.747427	0.571782	0.507187
6_29	2/14/16	310	1400	1710	0.22	650	2900	3550	0.3	0.26	1798	0.19083	0.893067	0.74407	0.569213	0.456771
6_30	5/5/16	280	1400	1680	0.21	470	2400	2870	0.31	0.26	1879	0.177109	0.888528	0.736316	0.563282	0.461581
6_31	6/16/16	270	1300	1570	0.21	650	3400	4050	0.28	0.245	1921	0.170387	0.886184	0.732425	0.560305	0.437262
6_32	9/6/16	290	1600	1890	0.19	470	2400	2870	0.28	0.235	2003	0.15799	0.881625	0.725068	0.554677	0.42367
6_33	10/11/16	100	670	770	0.18	300	1900	2200	0.29	0.235	2038	0.152977	0.879686	0.72202	0.552345	0.425459
6_34	12/7/16	230	1300	1530	0.16	430	2500	2930	0.3	0.23	2095	0.145152	0.876538	0.717168	0.548634	0.419223
6_35	2/7/17	160	910	1070	0.17	270	1800	2070	0.27	0.22	2157	0.137093	0.873126	0.712043	0.544713	0.403883
6_36	5/9/17	120	920	1040	0.16	340	2600	2940	0.32	0.24	2248	0.126069	0.868143	0.704788	0.539163	0.445135
6_37	6/15/17	110	840	950	0.16	330	2400	2730	0.27	0.215	2285	0.121844	0.866125	0.701925	0.536972	0.400393
6_38	8/2/17	110	790	900	0.16	270	2000	2270	0.24	0.2	2333	0.116574	0.863514	0.698281	0.534185	0.374402
6_39	10/29/17	120	1000	1120	0.17	310	2400	2710	0.22	0.195	2421	0.107496	0.858747	0.691799	0.529226	0.368462
6_40	12/8/17	120	1100	1220	0.15	260	2300	2560	0.23	0.19	2461	0.103607	0.856589	0.688933	0.527034	0.360508
6_41	2/14/18	140	1200	1340	0.18	250	2300	2550	0.23	0.205	2529	0.097316	0.852933	0.684171	0.523391	0.391677
6_42	5/2/18	130	1300	1430	0.19	220	2100	2320	0.3	0.245	2606	0.090652	0.848812	0.678935	0.519386	0.471711
6_43	6/18/18	140	1300	1440	0.15	250	2500	2750	0.22	0.185	2653	0.086811	0.846306	0.675818	0.517001	0.357833
6_44	8/13/18	150	1500	1650	0.16	160	1700	1860	0.23	0.195	2709	0.082446	0.843331	0.672177	0.514215	0.379219
6_45	10/16/18	73	710	783	0.22	210	2200	2410	0.31	0.265	2773	0.077726	0.839943	0.668109	0.511103	0.518486
6_46	11/12/18	100	1300	1400	0.17	170	2000	2170	0.28	0.225	2800	0.075816	0.838517	0.666422	0.509812	0.441339
6_47	12/14/18	120	1400	1520	0.19	150	1800	1950	0.29	0.24	2832	0.073614	0.836831	0.664443	0.508299	0.472163
6_48	5/12/19	130	1700	1830	0.2	140	1900	2040	0.25	0.225	2981	0.064172	0.829025	0.655517	0.501471	0.44868
6_49	6/4/19	220	2800	3020	0.19	150	2000	2150	0.28	0.235	3004	0.062827	0.827827	0.654179	0.500447	0.46958
6_50	8/7/19	99	1500	1599	0.2	150	2100	2250	0.27	0.235	3068	0.05923	0.824501	0.650509	0.49764	0.472229
6_51	11/5/19	70	1000	1070	0.15	53	860	913	0.13	0.14	3158	0.054517	0.819846	0.645473	0.493787	0.283523
6_52	12/17/19	47	800	847	0.17	140	2400	2540	0.14	0.155	3200	0.052448	0.817683	0.64317	0.492025	0.315024
6_53	8/24/20	38	690	728	0.13	19	340	359	0.12	0.125	3451	0.04162	0.804875	0.629978	0.481934	0.259372
6_54	10/2/20	45	900	945	0.15	11	230	241	0.13	0.14	3490	0.040152	0.802903	0.628009	0.480427	0.291407
6_55	11/18/20	32	750	782	0.15	7.9	180	187.9	0.15	0.15	3537	0.03845	0.800533	0.625662	0.478632	0.313393
6_56	12/4/20	23	510	533	0.15	7.4	190	197.4	0.15	0.15	3553	0.037888	0.799728	0.62487	0.478025	0.313791
6_57	5/20/21	39	900	939	0.13	16	340	356	0.13	0.13	3720	0.032485	0.791371	0.61678	0.471837	0.275519
6_58	6/1/21	24	690	714	0.12	29	490	519	0.11	0.115	3732	0.032128	0.790774	0.616211	0.471402	0.243953
6_59	8/7/21	24	670	694	0.15	8.1	170	170	0.13	0.14	3799	0.030205	0.787449	0.613063	0.468993	0.298512
6_60	10/29/21	25	760	785	0.14	8	280	288	0.12	0.13	3882	0.027981	0.783348	0.609227	0.466059	0.278935
6_61	11/25/21	42	960	1002	0.14	12	350	362	0.14	0.14	3909	0.027294	0.782019	0.607994	0.465115	0.301001
6_62	12/25/21	36	1300	1336	0.14	7.5	210	210	0.15	0.145	3939	0.02655	0.780545	0.606632	0.464073	0.312451
6_63	5/9/22	38	1100	1138	0.14	86	3100	3186	0.13	0.135	4074	0.023445	0.773945	0.600605	0.459463	0.293821
6_64	6/6/22	11	430	441	0.1	46	1500	1546	0.1	0.1	4102	0.022848	0.772583	0.599375	0.458522	0.218092
6_65	8/1/22	32	1300	1332	0.13	51	2000	2051	0.13	0.13	4158	0.021699	0.769866	0.596935	0.456655	0.284679
6_66	10/3/22	22	760	782	0.14	45	1600	1645	0.12	0.13	4221	0.020476	0.766822	0.594219	0.454578	0.28598
6_67	11/3/22	20	750	770	0.13	160	7000	7160	0.13	0.13	4252	0.019899	0.765328	0.592895	0.453565	0.286619
6_68	12/19/22	19	710	729	0.11	140	6100	6240	0.12	0.115	4298	0.019074	0.763117	0.590942	0.452071	0.254385
6_69	5/2/23	12	590	602	0.13	46	2600	2646	0.11	0.12	4432	0.016859	0.756712	0.585342	0.447787	0.267985
6_70	6/14/23	16	810	826	0.14	46	2500	2546	0.13	0.135	4475	0.016204	0.754668	0.583572	0.446432	0.302398
6_71	8/28/23	23	810	833	0.11	34	1700	1734	0.12	0.115	4550	0.015122	0.751116	0.580512	0.444092	0.258956
6_72	10/12/23	17	610	627	0.13	63	3100	3163	0.11	0.12	4595	0.014508	0.748993	0.578693	0.4427	0.271064
6_73	11/11/23	11	700	711	0.13	69	3800	3869	0.13	0.13	4625	0.014113	0.747581	0.577487	0.441778	0.294266
6_74	12/25/23	17	860	877	0.15	72	3900	3972	0.13	0.14	4669	0.013552	0.745515	0.575729	0.440433	0.317869
6_75	5/2/24	12	680	692	0.13	63	3200	3263	0.13	0.13	4798	0.012033	0.73949	0.570637	0.436537	0.297798
6_76	6/24/24	13	900	913	0.11	22	1300	1322	0.11	0.11	4851	0.01146	0.737029	0.568572	0.434958	0.252898
6_77	8/29/24	12	560	572	0.11	9.9	770	770	0.1	0.105	4917	0.010784	0.733976	0.566021	0.433006	0.242491

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
7_1	11/29/11	520	660	1180	0.32	450	640	1090	0.29	0.305	260	0.787006	0.983779	0.999341	0.304799	1.000659
7_2	1/21/12	720	1000	1720	0.33	280	390	670	0.31	0.32	313	0.749503	0.980505	0.985148	0.30047	1.064998
7_3	6/13/12	7.7	280	440	0.23	14	700	1100	0.26	0.245	457	0.656389	0.971664	0.949361	0.289555	0.846125
7_4	7/5/12	4.9	120	190	0.2	14	910	1500	0.28	0.24	479	0.64322	0.97032	0.944229	0.28799	0.833363
7_5	8/21/12	14	910	1400	0.33	9.2	500	810	0.26	0.295	526	0.615964	0.967456	0.933542	0.28473	1.036068
7_6	11/12/12	8	220	380	0.17	16	1200	2200	0.2	0.185	609	0.570622	0.962418	0.915554	0.279244	0.662503
7_7	12/20/12	8.7	320	630	0.27	15	980	1800	0.26	0.265	647	0.550992	0.960121	0.907677	0.276842	0.957226
7_8	5/13/13	210	420	630	0.21	630	1300	1930	0.234	0.222	791	0.482539	0.951464	0.879715	0.268313	0.827391
7_9	6/24/13	530	1100	1630	0.38	520	1100	1620	0.206	0.293	833	0.464226	0.948953	0.872085	0.265986	1.101561
7_10	8/5/13	390	910	1300	0.19	960	2100	3060	0.2	0.195	875	0.446607	0.94645	0.864677	0.263727	0.739402
7_11	10/15/13	670	1500	2170	0.074	290	690	980	0.168	0.121	946	0.41833	0.942232	0.852635	0.260054	0.465288
7_12	12/4/13	450	1100	1550	0.182	420	990	1410	0.192	0.187	996	0.399499	0.939274	0.8445	0.257573	0.726009
7_13	2/5/14	490	1200	1690	0.148	430	1100	1530	0.162	0.155	1059	0.376973	0.935559	0.834635	0.254564	0.608885
7_14	5/8/14	390	1100	1490	0.2	230	710	940	0.2	0.2	1151	0.34634	0.930161	0.820953	0.250391	0.798752
7_15	6/3/14	300	850	1150	0.17	280	810	1090	0.19	0.18	1177	0.338143	0.928641	0.817234	0.249256	0.722148
7_16	8/18/14	330	1000	1330	0.18	290	850	1140	0.16	0.17	1253	0.315278	0.924212	0.806716	0.246048	0.690921
7_17	10/21/14	410	1300	1710	0.16	110	350	460	0.18	0.17	1317	0.297227	0.920499	0.798246	0.243465	0.698252
7_18	12/9/14	320	1100	1420	0.17	260	870	1130	0.15	0.16	1366	0.284108	0.917666	0.791988	0.241556	0.662372
7_19	2/12/15	470	1600	2070	0.14	200	660	860	0.15	0.145	1431	0.267595	0.913922	0.783973	0.239112	0.606411
7_20	5/26/15	380	1400	1780	0.12	150	680	830	0.11	0.115	1534	0.243371	0.90802	0.771902	0.23543	0.488468
7_21	6/22/15	330	1300	1630	0.11	230	890	1120	0.09	0.1	1561	0.237393	0.906479	0.768858	0.234502	0.426436
7_22	8/26/15	270	1200	1470	0.11	100	440	540	0.11	0.11	1626	0.223595	0.902781	0.761724	0.232326	0.473473
7_23	10/4/15	370	1500	1870	0.12	110	480	590	0.14	0.13	1665	0.215704	0.900569	0.75757	0.231059	0.562627
7_24	10/4/15	300	1100	1400	0.13	140	520	660	0.12	0.125	1665	0.215704	0.900569	0.75757	0.231059	0.540987
7_25	10/4/15					230	1000	1230	0.17	0.17	1665	0.215704	0.900569	0.75757	0.231059	0.735743
7_26	11/11/15	280	1200	1480	0.11	260	1100	1360	0.14	0.125	1703	0.208284	0.898419	0.75361	0.229851	0.54383
7_27	12/6/15	190	970	1160	0.12	280	1200	1480	0.15	0.135	1728	0.203541	0.897007	0.751051	0.229071	0.589338
7_28	1/11/16	290	1200	1490	0.13	340	1500	1840	0.18	0.155	1764	0.196902	0.894978	0.747427	0.227965	0.679928
7_29	2/7/16	210	970	1180	0.11	240	1000	1240	0.13	0.12	1791	0.192065	0.89346	0.744756	0.227151	0.528284
7_30	5/3/16	130	630	760	0.09	190	970	1160	0.1	0.095	1877	0.177435	0.88864	0.736503	0.224634	0.422911
7_31	6/5/16	160	800	960	0.08	120	680	800	0.13	0.105	1910	0.172122	0.886797	0.733436	0.223698	0.469383
7_32	8/28/16	45	290	335	0.07	6.2	47	53.2	0.07	0.07	1994	0.159305	0.882124	0.72586	0.221387	0.316188
7_33	10/9/16	3.1	21	21	0.06	9.9	78	87.9	0.06	0.06	2036	0.153259	0.879797	0.722193	0.220269	0.272395
7_34	12/11/16	82	550	632	0.06	5.2	33	38.2	0.06	0.06	2099	0.144618	0.876317	0.716833	0.218634	0.274431
7_35	2/5/17	100	690	790	0.06	7.8	38	45.8	0.06	0.06	2155	0.137346	0.873236	0.712206	0.217223	0.276214
7_36	5/5/17	79	560	639	0.06	3.8	30	30	0.06	0.06	2244	0.126535	0.868361	0.7051	0.215056	0.278998
7_37	6/7/17	40	330	370	0.06	6.9	50	56.9	0.08	0.07	2277	0.122746	0.866561	0.70254	0.214275	0.326684
7_38	8/5/17	4.8	18	18	0.07	10	58	68	0.06	0.065	2336	0.116252	0.863351	0.698056	0.212907	0.305298
7_39	10/5/17	7.6	18	18	0.06	6.7	40	40	0.06	0.06	2397	0.1099	0.860044	0.693542	0.21153	0.283647
7_40	12/4/17	8.1	26	26	0.06	7.4	46	53.4	0.06	0.06	2457	0.10399	0.856805	0.689218	0.210211	0.285427
7_41	2/19/18	8.3	19	19	0.06	5.6	45	45	0.06	0.06	2534	0.096869	0.852665	0.683826	0.208567	0.287678
7_42	5/2/18	5.7	21	21	0.06	5.3	45	45	0.06	0.06	2606	0.090652	0.848812	0.678935	0.207075	0.28975
7_43	6/1/18	6.4	18	18	0.09	5.8	46	46	0.06	0.075	2636	0.088181	0.847212	0.676939	0.206466	0.363255
7_44	8/13/18	6	24	24	0.05	7.4	51	51	0.06	0.055	2709	0.082446	0.843331	0.672177	0.205014	0.268274
7_45	10/6/18	6.1	28	28	0.07	5.8	50	50	0.07	0.07	2763	0.078445	0.840471	0.668738	0.203965	0.343196
7_46	11/6/18	11	27	27	0.07	5.3	55	60.3	0.07	0.07	2794	0.076236	0.838834	0.666795	0.203372	0.344196
7_47	12/3/18	8	22	22	0.06	7.3	68	68	0.06	0.06	2821	0.074364	0.83741	0.66512	0.202862	0.295768
7_48	5/5/19	6	34	34	0.07	13	170	183	0.08	0.075	2974	0.064587	0.82939	0.655926	0.200058	0.374892
7_49	6/3/19	5.1	30	30	0.07	5.9	91	96.9	0.08	0.075	3003	0.062885	0.827879	0.654237	0.199542	0.37586
7_50	8/16/19	7.8	22	22	0.06	6.4	100	100	0.08	0.07	3077	0.058741	0.824034	0.649999	0.19825	0.35309
7_51	10/31/19	5.3	17	17	0.06	11	180	191	0.1	0.08	3153	0.054769	0.820104	0.645749	0.196953	0.406187
7_52	11/15/19	4	30	30	0.07	51	600	651	0.07	0.07	3168	0.054017	0.819331	0.644922	0.196701	0.35587
7_53	12/4/19	6.9	20	20	0.07	29	440	469	0.08	0.075	3187	0.05308	0.818352	0.64388	0.196383	0.381906
7_54	8/5/20	4.3	20	20	0.07	44	800	844	0.09	0.08	3432	0.042355	0.805838	0.630945	0.192438	0.415718
7_55	10/3/20	7.8	28	28	0.06	30	530	560	0.08	0.07	3491	0.040115	0.802853	0.627959	0.191527	0.365483
7_56	11/17/20	10	200	210	0.08	51	1000	1051	0.11	0.095	3536	0.038486	0.800584	0.625712	0.190842	0.497794
7_57	12/3/20	7.6	28	28	0.06	38	840	878	0.12	0.09	3552	0.037923	0.799778	0.624919	0.1906	0.472192
7_58	5/20/21	13	310	323	0.06	9.5	26	26	0.07	0.065	3720	0.032485	0.791371	0.61678	0.188118	0.345528
7_59	6/1/21	11	380	391	0.05	8	120	120	0.06	0.055	3732	0.032128	0.790774	0.616211	0.187944	0.29264
7_60	8/6/21	7	69	69	0.06	38	1000	1038	0.08	0.07	3798	0.030233	0.787498	0.61311	0.186998	0.374335
7_61	10/22/21	7.9	25	25	0.06	9	23	23	0.06	0.06	3875	0.028162	0.783693	0.609548	0.185912	0.322733
7_62	11/25/21	9.5	44	44	0.06	9.1	26	26	0.05	0.055	3909	0.027294	0.782019	0.607994	0.185438	0.296595
7_63	12/25/21	8.4	38	38	0.08	7.6	23	23	0.11	0.095	3939	0.02655	0.780545	0.606632	0.185023	0.51345
7_64	5/31/22	7.8	30	30	0.04	9.2	41	41	0.04	0.04	4096	0.022975	0.772875	0.599638	0.18289	0.218711
7_65	6/15/22	3.6	11	11	0.05	5.8	20	20	0.05	0.05	4111	0.022659	0.772146	0.598981	0.182689	0.273689
7_66	8/1/22	6.1	13	13	0.06	8.4	18	18	0.07	0.065	4158	0.021699	0.769866	0.596935	0.182065	0.357015
7_67	10/3/22	7.3	14	14	0.05	6.2	47	47	0.05	0.05	4221	0.020476	0.766822	0.594219	0.181237	0.275882
7_68	11/3/22	8.6	11	11	0.06	7.5	36	36	0.06	0.06	4252	0.019899	0.765328	0.592895	0.180833	0.331798
7_69	12/12/22	9.1	20	20	0.06	7	49	49	0.08	0.07	4291	0.019197	0.763453	0.591239	0.180328	0.388182
7_70	5/22/23	6.2	14	14	0.05	9.4	15	15	0.06	0.055	4452	0.016551	0.75576	0.584517	0.178278	0.308507
7_71	6/14/23	9.3	62	62	0.06	8.3	34	34	0.05	0.055	4475	0.016204	0.754668	0.583572	0.177989	0.309007
7_72	8/28/23	8.6	32	32	0.06	8.9	70	70	0.05	0.055	4550	0.015122	0.751116	0.580512	0.177056	0.310636
7_73	10/17/23	8.7	42	42	0.07	7.3	210	210	0.06	0.065	4600	0.014441	0.748758	0.578492	0.17644	0.368397
7_74	11/24/23	5.8	14	14	0.06	6.9	32	32	0.08	0.07	4638	0.013945	0.74697	0.576967	0.175975	0.397784
7_75	12/25/23	7.8	15	15	0.07	6.7	44	44	0.08	0.075	4669	0.013552	0.745515	0.575729	0.175597	0.427114
7_76	5/2/24	7.3	15	15	0.06	8.2	24	24	0.06	0.06	4798	0.012033	0.73949	0.570637	0.174044	0.34474
7_77	6/25/24	8	320	320	0.06	9.4	310	310	0.05	0.055	4852	0.01145	0.736983	0.568533	0.173403	0.317181
7_78	8/29/24	8.8	21	21	0.06	8.7	160	160	0.05	0.055	4917	0.010784	0.733976	0.566021	0.172636	0.318589

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
8_1	11/25/11	8500	10000	18500	4.48	13000	16000	29000	4.37	4.425	256	0.789911	0.984027	1.000436	4.426929	0.999564
8_2	1/18/12	3400	4400	7800	3.07	30000	40000	70000	4.32	3.695	310	0.751577	0.98069	0.985936	4.362765	0.84694
8_3	6/14/12	40	3600	5400	2.13	37	10000	15000	3.23	2.68	458	0.655784	0.971603	0.949126	4.199884	0.638113
8_4	7/3/12	16	1500	2400	2.01	53	16000	24000	2.98	2.495	477	0.644406	0.970442	0.944692	4.180262	0.596853
8_5	8/7/12	27	4900	7800	2.19	58	20000	32000	2.82	2.505	512	0.62396	0.968308	0.936686	4.144836	0.604366
8_6	11/6/12	16	1500	2400	2.1	58	13000	23000	3.01	2.555	603	0.573784	0.962782	0.916818	4.056919	0.629788
8_7	12/25/12	20	2900	5200	2.03	34	8200	15000	2.96	2.495	652	0.548459	0.959819	0.906657	4.011957	0.621891
8_8	2/11/13	14	1400	2500	1.31	27	6000	11000	1.91	1.61	700	0.524735	0.956925	0.897048	3.969437	0.405599
8_9	5/15/13	5000	10000	15000	2.066	4700	9400	14100	2.496	2.281	793	0.481651	0.951344	0.879347	3.891109	0.586208
8_10	6/26/13	3700	7800	11500	1.662	3200	6800	10000	2.49	2.076	835	0.463371	0.948834	0.871728	3.857395	0.538187
8_11	8/5/13	2400	5000	7400	1.366	4100	9100	13200	2.092	1.729	875	0.446607	0.94645	0.864677	3.826197	0.451885
8_12	10/15/13	1700	3900	5600	1.184	4600	11000	15600	1.484	1.334	946	0.41833	0.942232	0.852635	3.77291	0.353573
8_13	12/2/13	2000	4900	6900	1.396	1600	3900	5500	2.264	1.83	994	0.400235	0.939392	0.84482	3.73833	0.489523
8_14	2/4/14	550	1300	1850	1.178	4300	11000	15300	1.828	1.503	1058	0.37732	0.935618	0.834788	3.693938	0.406883
8_15	5/8/14	1200	3500	4700	1.3	2500	7100	9600	2.1	1.7	1151	0.34634	0.930161	0.820953	3.632718	0.467969
8_16	6/3/14	1600	4300	5900	1.31	3300	9100	12400	2.05	1.68	1177	0.338143	0.928641	0.817234	3.616262	0.464568
8_17	8/18/14	21000	62000	83000	1.26	3000	8900	11900	1.91	1.585	1253	0.315278	0.924212	0.806716	3.569719	0.444013
8_18	10/21/14	1000	3200	4200	1.22	3100	9600	12700	1.86	1.54	1317	0.297227	0.920499	0.798246	3.532239	0.435984
8_19	12/10/14	1600	5000	6600	1.09	2700	8600	11300	1.66	1.375	1367	0.283847	0.917609	0.791862	3.503989	0.39241
8_20	2/11/15	1100	4000	5100	1.04					1.04	1430	0.267842	0.91398	0.784094	3.469615	0.299745
8_21	5/18/15	1900	6700	8600	1	5300	19000	24300	1.36	1.18	1526	0.245172	0.908477	0.772813	3.419698	0.34506
8_22	6/30/15	1400	5500	6900	0.78	3100	12000	15100	1.34	1.06	1569	0.235649	0.906023	0.767965	3.398247	0.311926
8_23	8/19/15	1200	4800	6000	0.75	3300	13000	16300	1.23	0.99	1619	0.225041	0.903178	0.76248	3.373973	0.293423
8_24	10/7/15	760	3000	3760	1.01	4600	18000	22600	1.47	1.24	1668	0.215109	0.900399	0.757255	3.350852	0.370055
8_25	10/7/15	2000	8000	10000	1.27	9200	36000	45200	1.28	1.275	1668	0.215109	0.900399	0.757255	3.350852	0.3805
8_26	10/7/15	860	3500	4360	0.77	3600	14000	17600	1.27	1.02	1668	0.215109	0.900399	0.757255	3.350852	0.3044
8_27	12/18/15	1600	6900	8500	0.69	1900	8300	10200	1.1	0.895	1740	0.201304	0.896331	0.749835	3.31802	0.269739
8_28	2/12/16	1500	7300	8800	0.66	3400	16000	19400	0.63	0.645	1796	0.191182	0.893179	0.744266	3.293375	0.195848
8_29	5/6/16	970	5100	6070	0.69	1800	9400	11200	1.17	0.93	1880	0.176946	0.888472	0.736222	3.257784	0.28547
8_30	6/15/16	1000	5200	6200	0.51	1100	5600	6700	1.09	0.8	1920	0.170544	0.88624	0.732516	3.241385	0.246808
8_31	8/27/16	1900	10000	11900	0.54	2600	14000	16600	0.95	0.745	1993	0.159452	0.88218	0.725948	3.212322	0.231919
8_32	10/5/16	1400	8400	9800	0.65	2300	14000	16300	1.01	0.83	2032	0.153825	0.880018	0.722538	3.197233	0.259599
8_33	12/3/16	950	5600	6550	0.51	1700	10000	11700	0.91	0.71	2091	0.145687	0.876758	0.717504	3.174957	0.223625
8_34	2/6/17	1100	7400	8500	0.4	1300	7800	9100	0.9	0.65	2156	0.13722	0.873181	0.712124	3.151149	0.206274
8_35	5/10/17	840	5800	6640	0.39	2200	15000	17200	0.92	0.655	2249	0.125953	0.868088	0.70471	3.118341	0.210048
8_36	6/3/17	590	4000	4590	0.3	870	6100	6970	0.82	0.56	2273	0.123199	0.866779	0.702848	3.110102	0.180058
8_37	8/28/17	790	6100	6890	0.28	910	7000	7910	0.8	0.54	2359	0.113815	0.862103	0.69634	3.081304	0.17525
8_38	10/21/17	840	6700	7540	0.29	730	5800	6530	0.76	0.525	2413	0.108292	0.859179	0.692378	3.063773	0.171357
8_39	12/10/17	52	510	562	0.27	1200	9100	10300	0.7	0.485	2463	0.103417	0.856481	0.688791	3.047901	0.159126
8_40	2/2/18	81	740	821	0.21	380	3600	3980	0.53	0.37	2517	0.098398	0.853577	0.685001	3.031131	0.122067
8_41	5/8/18	58	580	638	0.24	1100	9900	11000	0.71	0.475	2612	0.090152	0.848492	0.678534	3.002514	0.158201
8_42	6/7/18	76	760	836	0.3	1200	11000	12200	0.7	0.5	2642	0.087695	0.846892	0.676542	2.9937	0.167017
8_43	8/23/18	69	660	729	0.31	1600	16000	17600	0.81	0.56	2719	0.08169	0.8428	0.671535	2.971542	0.188454
8_44	10/9/18	50	590	640	0.33	1100	11000	12100	0.95	0.64	2766	0.078228	0.840313	0.668549	2.95833	0.216338
8_45	11/18/18	61	750	811	0.3	2000	21000	23000	0.99	0.645	2806	0.075398	0.838201	0.666049	2.947266	0.218847
8_46	12/13/18	46	500	546	0.24	920	10000	10920	0.57	0.405	2831	0.073682	0.836884	0.664504	2.940432	0.137735
8_47	5/5/19	57	700	757	0.3	1800	22000	23800	0.87	0.585	2974	0.064587	0.82939	0.655926	2.902475	0.201552
8_48	6/12/19	89	1300	1389	0.29	550	7300	7850	0.94	0.615	3012	0.062365	0.82741	0.653716	2.892695	0.212605
8_49	8/26/19	32	450	482	0.31	580	8200	8780	0.91	0.61	3087	0.058202	0.823516	0.649434	2.873746	0.212267
8_50	10/16/19	29	460	489	0.27	820	12000	12820	0.82	0.545	3138	0.055531	0.820878	0.64658	2.861116	0.190485
8_51	11/2/19	30	510	540	0.27	640	9300	9940	0.82	0.545	3155	0.054668	0.820001	0.645639	2.856951	0.190763
8_52	12/1/19	190	3600	3790	0.22	1000	16000	17000	0.51	0.365	3184	0.053227	0.818507	0.644044	2.849895	0.128075
8_53	8/21/20	27	510	537	0.17	1200	22000	23200	0.58	0.375	3448	0.041736	0.805027	0.630131	2.788329	0.134489
8_54	10/15/20	38	620	658	0.21	650	13000	13650	0.55	0.38	3503	0.039674	0.802247	0.627357	2.776055	0.136885
8_55	11/22/20	260	5200	5460	0.28	370	8000	8370	0.66	0.47	3541	0.038309	0.800332	0.625464	2.767677	0.169818
8_56	12/14/20	77	1500	1577	0.32	610	13000	13610	0.6	0.46	3563	0.03754	0.799225	0.624376	2.762863	0.166494
8_57	5/17/21	37	1600	1637	0.21	110	2700	2810	0.39	0.3	3717	0.032575	0.791521	0.616923	2.729884	0.109895
8_58	6/2/21	150	4000	4150	0.18	160	4100	4260	0.54	0.36	3733	0.032098	0.790724	0.616164	2.726526	0.132036
8_59	8/10/21	340	8600	8940	0.22	21	640	661	0.6	0.41	3802	0.030121	0.7873	0.612923	2.712185	0.15117
8_60	10/15/21	12	500	512	0.27	310	9300	9610	0.41	0.34	3868	0.028345	0.784038	0.609869	2.698671	0.125988
8_61	11/12/21	19	530	549	0.21	260	7900	8160	0.55	0.38	3896	0.027623	0.782659	0.608587	2.692996	0.141107
8_62	12/4/21	10	400	410	0.27	270	7100	7370	0.55	0.41	3918	0.027069	0.781577	0.607584	2.688561	0.152498
8_63	5/9/22	6.5	170	170	0.24	270	9400	9670	0.54	0.39	4074	0.023445	0.773945	0.600605	2.657678	0.146745
8_64	6/6/22	18	460	478	0.17	32	980	1012	0.46	0.315	4102	0.022848	0.772583	0.599375	2.652235	0.118768
8_65	8/2/22	220	7600	7820	0.16	48	1400	1448	0.45	0.305	4159	0.021679	0.769818	0.596891	2.641244	0.115476
8_66	10/3/22	15	540	555	0.16	420	15000	15420	0.45	0.305	4221	0.020476	0.766822	0.594219	2.629421	0.115995
8_67	11/3/22	12	450	462	0.31	230	9200	9430	0.47	0.39	4252	0.019899	0.765328	0.592895	2.623559	0.148653
8_68	12/8/22	21	600	621	0.23	430	18000	18430	0.43	0.33	4287	0.019268	0.763645	0.591408	2.61698	0.1261
8_69	5/12/23	200	8600	8800	0.51	8.1	40	40	0.41	0.46	4442	0.016704	0.756236	0.584929	2.588313	0.177722
8_70	6/12/23	180	7900	8080	0.45	51	2800	2851	0.34	0.395	4473	0.016234	0.754763	0.583654	2.582667	0.152943
8_71	8/3/23	220	9800	10020	0.45	9.9	190	190	0.33	0.39	4525	0.015474	0.752298	0.581528	2.57326	0.151559
8_72	10/5/23	120	6900	7020	0.48	9.8	16	16	0.32	0.4	4588	0.014602	0.749323	0.578975	2.561965	0.15613
8_73	11/9/23	99	5800	5899	0.38	8.2	47	47	0.29	0.335	4623	0.014139	0.747675	0.577568	2.555736	0.131078
8_74	12/5/23	230	12000	12230	0.59	210	12000	12210	0.41	0.5	4649	0.013804	0.746453	0.576527	2.551131	0.195992
8_75	5/1/24	150	10000	10150	0.47	130	7400	7530	0.34	0.405	4797	0.012045	0.739537	0.570676	2.525243	0.160381
8_76	6/6/24	98	5700	5798	0.44	19	1700	1719	0.28	0.36	4833	0.011652	0.737864	0.569272	2.519027	0.142912
8_77	8/15/24	69	4300	4369	0.28	22	1700	1722	0.25	0.265	4903	0.010924	0.734622	0.56656	2.507028	0.105703

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
9_1	11/25/11	8900	11000	19900	4.7	8100	10000	18100	4.96	4.83	256	0.789911	0.984027	1.000436	4.832106	0.999564
9_2	1/18/12	67000	87000	154000	4.62	11000	15000	26000	4.9	4.76	310	0.751577	0.98069	0.985936	4.762069	0.999566
9_3	6/14/12	30	4200	6200	4.1	48	8500	13000	4.04	4.07	458	0.655784	0.971603	0.949126	4.58428	0.887817
9_4	7/3/12	27	4400	6800	3.57	21	2800	4300	3.2	3.385	477	0.644406	0.970442	0.944692	4.562862	0.741859
9_5	8/8/12	29	5400	8700	3.55	45	8000	13000	3.82	3.685	513	0.623385	0.968247	0.93646	4.523104	0.814706
9_6	11/6/12	30	4800	8100	3.49	19	1900	3200	3.51	3.5	603	0.573784	0.962782	0.916818	4.42823	0.790383
9_7	12/25/12	41	7900	14000	3.46	29	3800	6800	3.62	3.54	652	0.548459	0.959819	0.906657	4.379153	0.808375
9_8	5/15/13	4500	9200	13700	3.118	3100	6400	9500	3.268	3.193	793	0.481651	0.951344	0.879347	4.247245	0.751781
9_9	6/26/13	2500	5000	7500	2.982	6000	12000	18000	2.96	2.971	835	0.463371	0.948834	0.871728	4.210445	0.705626
9_10	8/8/13	7500	16000	23500	2.502	1000	2200	3200	3.046	2.774	878	0.445374	0.946271	0.864156	4.173876	0.66461
9_11	10/15/13	4700	11000	15700	2.298	3000	6800	9800	3.022	2.66	946	0.41833	0.942232	0.852635	4.118228	0.645909
9_12	12/2/13	2200	5500	7700	2.448	2600	6300	8900	3.182	2.815	994	0.400235	0.939392	0.84482	4.080482	0.689869
9_13	2/4/14	5400	13000	18400	2.286	4000	10000	14000	2.434	2.36	1058	0.37732	0.935618	0.834788	4.032027	0.585314
9_14	5/8/14	3500	9800	13300	2.54	2700	7400	10100	3	2.77	1151	0.34634	0.930161	0.820953	3.965204	0.698577
9_15	6/3/14	2800	7400	10200	2.51	3900	11000	14900	2.77	2.64	1177	0.338143	0.928641	0.817234	3.947242	0.668821
9_16	8/18/14	2400	7000	9400	2.14	780	2200	2980	2.57	2.355	1253	0.315278	0.924212	0.806716	3.896439	0.604398
9_17	10/21/14	1600	5100	6700	2.16	1500	4600	6100	2.71	2.435	1317	0.297227	0.920499	0.798246	3.855529	0.631561
9_18	12/10/14	2700	8400	11100	2.07	3100	9800	12900	2.43	2.25	1367	0.283847	0.917609	0.791862	3.824693	0.588283
9_19	5/18/15	3100	11000	14100	1.74	1300	4700	6000	2.03	1.885	1526	0.245172	0.908477	0.772813	3.732687	0.504998
9_20	6/30/15	3200	12000	15200	0.68	1300	4800	6100	1.98	1.33	1569	0.235649	0.906023	0.767965	3.709273	0.358561
9_21	8/19/15	2800	11000	13800	1.55	2900	11000	13900	1.88	1.715	1619	0.225041	0.903178	0.76248	3.682777	0.465681
9_22	10/2/15	2200	8700	10900	1.24	3900	16000	19900	1.4	1.32	1663	0.216102	0.900682	0.757781	3.660083	0.360648
9_23	10/2/15	3400	14000	17400	1.07	2700	10000	12700	1.41	1.24	1663	0.216102	0.900682	0.757781	3.660083	0.33879
9_24	10/2/15	2200	8700	10900	1.42	3200	13000	16200	1.45	1.435	1663	0.216102	0.900682	0.757781	3.660083	0.392068
9_25	12/18/15	2500	10000	12500	1.06	2100	9600	11700	1.22	1.14	1740	0.201304	0.896331	0.749835	3.621703	0.314769
9_26	2/1/16				0.51				0.62	0.565	1785	0.193129	0.893797	0.745346	3.600022	0.156943
9_27	5/6/16	2500	12000	14500	1.12	3000	14000	17000	1.21	1.165	1880	0.176946	0.888472	0.736222	3.555954	0.32762
9_28	6/8/16	2400	11000	13400	1.08	3400	17000	20400	1.27	1.175	1913	0.171647	0.88663	0.733159	3.54116	0.331812
9_29	8/27/16	2000	11000	13000	0.72	2300	13000	15300	1.05	0.885	1993	0.159452	0.88218	0.725948	3.506331	0.252401
9_30	10/5/16	1800	11000	12800	0.84	1900	10000	11900	1.25	1.045	2032	0.153825	0.880018	0.722538	3.489861	0.299439
9_31	12/3/16	760	4600	5360	0.68	1100	6500	7600	1.16	0.92	2091	0.145687	0.876758	0.717504	3.465546	0.26547
9_32	2/6/17	2400	15000	17400	0.51	720	4300	5020	0.59	0.55	2156	0.13722	0.873181	0.712124	3.439559	0.159904
9_33	5/10/17	1700	11000	12700	0.68	530	3500	4030	1.08	0.88	2249	0.125953	0.868088	0.70471	3.403748	0.258539
9_34	6/19/17	890	6400	7290	0.64	1600	11000	12600	1.02	0.83	2289	0.121396	0.865907	0.701618	3.388815	0.244923
9_35	8/29/17	1000	7400	8400	0.51	2700	20000	22700	0.93	0.72	2360	0.11371	0.862048	0.696266	3.362963	0.214097
9_36	10/12/17	930	7500	8430	0.53	880	6600	7480	0.89	0.71	2404	0.109193	0.859666	0.693032	3.347344	0.212108
9_37	12/10/17	1100	8400	9500	0.5	1300	11000	12300	0.77	0.635	2463	0.103417	0.856481	0.688791	3.326862	0.190871
9_38	2/2/18				0.33				0.44	0.385	2517	0.098398	0.853577	0.685001	3.308557	0.116365
9_39	5/8/18	760	7400	8160	0.42	1300	12000	13300	0.92	0.67	2612	0.090152	0.848492	0.678534	3.27732	0.204435
9_40	6/7/18	350	3600	3950	0.51	3200	30000	33200	0.89	0.7	2642	0.087695	0.846892	0.676542	3.2677	0.214218
9_41	8/23/18	320	2800	3120	0.55	2700	27000	29700	1.09	0.82	2719	0.08169	0.8428	0.671535	3.243513	0.252812
9_42	10/9/18	15	160	175	0.64	2000	20000	22000	1.22	0.93	2766	0.078228	0.840313	0.668549	3.229093	0.288007
9_43	11/18/18	34	360	394	0.59	1200	13000	14200	1.16	0.875	2806	0.075398	0.838201	0.666049	3.217016	0.271991
9_44	12/13/18	500	5100	5600	0.36	690	7400	8090	0.57	0.465	2831	0.073682	0.836884	0.664504	3.209556	0.14488
9_45	5/5/19	270	3100	3370	0.54	1600	21000	22600	1.06	0.8	2974	0.064587	0.82939	0.655926	3.168125	0.252515
9_46	6/12/19	55	730	785	0.56	1300	17000	18300	1.11	0.835	3012	0.062365	0.82741	0.653716	3.15745	0.264454
9_47	8/6/19	51	760	811	0.53	1500	21000	22500	1.12	0.825	3067	0.059284	0.824553	0.650566	3.142233	0.262552
9_48	10/9/19	36	540	576	0.51	740	10000	10740	1.1	0.805	3131	0.05589	0.82124	0.646969	3.12486	0.257612
9_49	11/2/19	52	770	822	0.48	490	8200	8690	0.6	0.54	3155	0.054668	0.820001	0.645639	3.118435	0.173164
9_50	12/1/19	34	620	654	0.29	2300	35000	37300	1.37	0.83	3184	0.053227	0.818507	0.644044	3.110733	0.266818
9_51	8/11/20	130	2900	3030	0.45	150	2900	3050	0.29	0.37	3438	0.042122	0.805534	0.630639	3.045988	0.121471
9_52	10/11/20	110	2300	2410	0.45	470	9300	9770	0.23	0.34	3499	0.03982	0.802449	0.627558	3.031103	0.11217
9_53	11/22/20	160	3800	3960	0.51	530	12000	12530	0.32	0.415	3541	0.038309	0.800332	0.625464	3.02099	0.137372
9_54	12/14/20	170	3700	3870	0.46	120	2700	2820	0.31	0.385	3563	0.03754	0.799225	0.624376	3.015736	0.127664
9_55	5/17/21	8.6	210	218.6	0.28	1500	37000	38500	0.21	0.245	3717	0.032575	0.791521	0.616923	2.979737	0.082222
9_56	6/2/21	170	4900	5070	0.4	49	1600	1649	0.29	0.345	3733	0.032098	0.790724	0.616164	2.976072	0.115925
9_57	8/10/21	31	620	651	0.39	68	1700	1768	0.31	0.35	3802	0.030121	0.7873	0.612923	2.960418	0.118227
9_58	10/15/21	82	2600	2682	0.37	33	830	863	0.28	0.325	3868	0.028345	0.784038	0.609869	2.945668	0.110332
9_59	11/12/21	73	2000	2073	0.44	26	700	726	0.29	0.365	3896	0.027623	0.782659	0.608587	2.939474	0.124172
9_60	12/4/21	67	2600	2667	0.32	11	350	361	0.32	0.32	3918	0.027069	0.781577	0.607584	2.934632	0.109043
9_61	5/9/22	24	680	704	0.42	430	15000	15430	0.29	0.355	4074	0.023445	0.773945	0.600605	2.900923	0.122375
9_62	6/6/22	35	1400	1435	0.4	7.9	330	337.9	0.26	0.33	4102	0.022848	0.772583	0.599375	2.894982	0.11399
9_63	8/2/22	82	2300	2382	0.41	39	1600	1639	0.26	0.335	4159	0.021679	0.769818	0.596891	2.882985	0.116199
9_64	10/3/22	62	2300	2362	0.39	57	2700	2757	0.25	0.32	4221	0.020476	0.766822	0.594219	2.87008	0.111495
9_65	11/3/22	21	820	841	0.48	55	2500	2555	0.29	0.385	4252	0.019899	0.765328	0.592895	2.863682	0.134442
9_66	12/8/22	22	980	1002	0.36	23	930	953	0.27	0.315	4287	0.019268	0.763645	0.591408	2.8565	0.110275
9_67	5/2/23	26	1300	1326	0.38	57	2500	2557	0.28	0.33	4432	0.016859	0.756712	0.585342	2.827204	0.116723
9_68	6/28/23	8.8	350	358.8	0.41	20	800	820	0.27	0.34	4489	0.015996	0.754004	0.582998	2.815879	0.120744
9_69	8/28/23	16	1100	1116	0.33	22	1200	1222	0.28	0.305	4550	0.015122	0.751116	0.580512	2.803872	0.108778
9_70	10/11/23	41	3800	3841	0.4	63	2900	2963	0.28	0.34	4594	0.014521	0.74904	0.578733	2.795282	0.121634
9_71	11/9/23	110	5400	5510	0.28	18	850	868	0.25	0.265	4623	0.014139	0.747675	0.577568	2.789651	0.094994
9_72	12/5/23	19	1000	1019	0.38	29	1400	1429	0.27	0.325	4649	0.013804	0.746453	0.576527	2.784624	0.116712
9_73	5/2/24	40	3200	3240	0.36	33	1700	1733	0.25	0.305	4798	0.012033	0.73949	0.570637	2.756178	0.11066
9_74	6/6/24	21	930	951	0.3	21	1600	1621	0.23	0.265	4833	0.011652	0.737864	0.569272	2.749582	0.096378
9_75	8/15/24	19	1500	1519	0.29	59	4300	4359	0.22	0.255	4903	0.010924	0.734622	0.56656	2.736484	0.093185

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
10_1	11/29/11	3000	3800	6800	1.17	1200	1500	2700	1.36	1.265	260	0.787006	0.983779	0.999341	1.264166	1.000659
10_2	1/20/12	3800	5000	8800	1.27	7900	10000	17900	1.14	1.205	312	0.750194	0.980567	0.98541	1.246544	0.966673
10_3	3/1/12	4600	6300	10900	1.08	11000	15000	26000	1.31	1.195	353	0.722387	0.978041	0.974811	1.233136	0.969074
10_4	6/13/12	22	3000	4600	1.01	26	3000	4600	1.2	1.105	457	0.656389	0.971664	0.949361	1.200942	0.920111
10_5	7/3/12	19	2300	3700	1	14	920	1400	1.24	1.12	477	0.644406	0.970442	0.944692	1.195035	0.937211
10_6	7/24/12	18	2200	3600	0.89	42	6000	9500	1.16	1.025	498	0.632059	0.969161	0.939863	1.188927	0.862122
10_7	8/21/12	28	4100	6700	1.01	34	5100	8000	1.2	1.105	526	0.615964	0.967456	0.933542	1.18093	0.935703
10_8	11/7/12	23	2300	3900	0.87	26	2900	4900	1.1	0.985	604	0.573256	0.962721	0.916607	1.159508	0.849498
10_9	12/20/12	17	2200	4000	0.98	26	2400	4400	1.09	1.035	647	0.550992	0.960121	0.907677	1.148212	0.901402
10_10	5/14/13	1800	3600	5400	0.744	2600	5300	7900	0.942	0.843	792	0.482095	0.951404	0.879531	1.112607	0.75768
10_11	6/24/13	830	1800	2630	0.812	4800	10000	14800	1.234	1.023	833	0.464226	0.948953	0.872085	1.103188	0.927312
10_12	8/5/13	1300	2800	4100	0.6	1900	4100	6000	0.806	0.703	875	0.446607	0.94645	0.864677	1.093817	0.642704
10_13	10/15/13	2000	4700	6700	0.612	3000	6600	9600	0.84	0.726	946	0.41833	0.942232	0.852635	1.078583	0.673105
10_14	12/2/13	2300	5400	7700	0.728	2700	6300	9000	0.882	0.805	994	0.400235	0.939392	0.84482	1.068698	0.753253
10_15	2/3/14	2600	6300	8900	0.716	1100	2700	3800	0.876	0.796	1057	0.377668	0.935677	0.834942	1.056201	0.753644
10_16	5/8/14	3700	9700	13400	0.71	3000	8200	11200	0.88	0.795	1151	0.34634	0.930161	0.820953	1.038506	0.765523
10_17	6/3/14	1400	3800	5200	0.7	2200	6000	8200	0.85	0.775	1177	0.338143	0.928641	0.817234	1.033801	0.74966
10_18	8/18/14	3100	9400	12500	0.63	2200	6500	8700	0.78	0.705	1253	0.315278	0.924212	0.806716	1.020496	0.690841
10_19	10/21/14	1100	3400	4500	0.62	1200	3500	4700	0.79	0.705	1317	0.297227	0.920499	0.798246	1.009781	0.698171
10_20	12/10/14	2600	8300	10900	0.63	2600	8500	11100	0.74	0.685	1367	0.283847	0.917609	0.791862	1.001705	0.683834
10_21	2/10/15	2100	7000	9100	0.59	2000	7000	9000	0.74	0.665	1429	0.268089	0.914037	0.784215	0.992032	0.670342
10_22	5/25/15	1500	5300	6800	0.51	4000	15000	19000	0.64	0.575	1533	0.243596	0.908077	0.772016	0.9766	0.588778
10_23	6/26/15	2300	8500	10800	0.48	2200	8400	10600	0.59	0.535	1565	0.236519	0.906251	0.768411	0.97204	0.550389
10_24	8/5/15	2200	8500	10700	0.43	2800	11000	13800	0.65	0.54	1605	0.227962	0.903974	0.764	0.96646	0.55874
10_25	10/5/15	1400	5400	6800	0.49	430	1800	2230	0.64	0.565	1666	0.215505	0.900512	0.757465	0.958193	0.589651
10_26	10/5/15	1000	4300	5300	0.54	370	1500	1870	0.51	0.525	1666	0.215505	0.900512	0.757465	0.958193	0.547906
10_27	10/5/15	820	3200	4020	0.56	710	2900	3610	0.63	0.595	1666	0.215505	0.900512	0.757465	0.958193	0.62096
10_28	12/7/15	1100	4300	5400	0.45	290	1400	1690	0.36	0.405	1729	0.203354	0.896951	0.750949	0.949951	0.426338
10_29	2/17/16	620	3100	3720	0.42	470	2100	2570	0.26	0.34	1801	0.190303	0.892898	0.743777	0.940877	0.361365
10_30	5/7/16	700	3400	4100	0.38	170	900	1070	0.4	0.39	1881	0.176783	0.888416	0.736129	0.931203	0.418813
10_31	6/16/16	1800	9100	10900	0.4	500	2500	3000	0.46	0.43	1921	0.170387	0.886184	0.732425	0.926517	0.464104
10_32	9/15/16	780	4300	5080	0.35	370	2200	2570	0.33	0.34	2012	0.156685	0.881126	0.724279	0.916213	0.371093
10_33	10/13/16	1200	6300	7500	0.33	550	3000	3550	0.34	0.335	2040	0.152696	0.879575	0.721847	0.913137	0.366867
10_34	12/3/16	960	5600	6560	0.36	590	3700	4290	0.34	0.35	2091	0.145687	0.876758	0.717504	0.907643	0.385614
10_35	2/17/17	900	5500	6400	0.32	340	2200	2540	0.33	0.325	2167	0.135836	0.872577	0.71123	0.899706	0.361229
10_36	5/7/17	700	5000	5700	0.33	340	2500	2840	0.35	0.34	2246	0.126302	0.868252	0.704944	0.891754	0.381271
10_37	6/19/17	420	3300	3720	0.33	270	1900	2170	0.34	0.335	2289	0.121396	0.865907	0.701618	0.887547	0.377445
10_38	8/2/17	600	4200	4800	0.27	490	3300	3790	0.24	0.255	2333	0.116574	0.863514	0.698281	0.883326	0.288682
10_39	10/29/17	740	5600	6340	0.29	330	2700	3030	0.26	0.275	2421	0.107496	0.858747	0.691799	0.875126	0.314241
10_40	12/4/17	520	4300	4820	0.28	450	3400	3850	0.3	0.29	2457	0.10399	0.856805	0.689218	0.87186	0.332622
10_41	2/19/18	810	7400	8210	0.27	440	4200	4640	0.29	0.28	2534	0.096869	0.852665	0.683826	0.86504	0.323685
10_42	5/2/18	610	5600	6210	0.35	360	3400	3760	0.38	0.365	2606	0.090652	0.848812	0.678935	0.858853	0.424985
10_43	6/18/18	820	7500	8320	0.26	270	2500	2770	0.26	0.26	2653	0.086811	0.846306	0.675818	0.85491	0.304126
10_44	8/16/18	310	3400	3710	0.24	250	2300	2550	0.28	0.26	2712	0.082218	0.843172	0.671984	0.85006	0.305861
10_45	10/4/18	500	5700	6200	0.34	440	4600	5040	0.3	0.32	2761	0.07859	0.840577	0.668864	0.846113	0.3782
10_46	11/6/18	630	7100	7730	0.37	320	3600	3920	0.27	0.32	2794	0.076236	0.838834	0.666795	0.843496	0.379374
10_47	12/3/18	570	6500	7070	0.35	210	2500	2710	0.33	0.34	2821	0.074364	0.83741	0.66512	0.841377	0.404099
10_48	5/14/19	370	5000	5370	0.29	300	3700	4000	0.27	0.28	2983	0.064054	0.828921	0.6554	0.829082	0.337723
10_49	6/5/19	490	5800	6290	0.34	210	3000	3210	0.3	0.32	3005	0.062769	0.827775	0.654121	0.827464	0.386724
10_50	8/19/19	320	4600	4920	0.33	260	3600	3860	0.25	0.29	3080	0.058578	0.823879	0.649829	0.822034	0.352783
10_51	10/8/19	340	5300	5640	0.3	300	4200	4500	0.21	0.255	3130	0.055941	0.821292	0.647025	0.818486	0.311551
10_52	11/5/19	350	5100	5450	0.27	41	690	731	0.1	0.185	3158	0.054517	0.819846	0.645473	0.816523	0.22657
10_53	12/17/19	430	6700	7130	0.32	340	5300	5640	0.18	0.25	3200	0.052448	0.817683	0.64317	0.81361	0.307272
10_54	8/24/20	170	3600	3770	0.18	22	440	462	0.1	0.14	3451	0.04162	0.804875	0.629978	0.796923	0.175676
10_55	10/12/20	170	3500	3670	0.2	5.4	78	78	0.1	0.15	3500	0.039783	0.802398	0.627507	0.793797	0.188965
10_56	11/19/20	180	3800	3980	0.27	37	690	727	0.1	0.185	3538	0.038415	0.800483	0.625613	0.7914	0.233763
10_57	12/4/20	190	3900	4090	0.34	31	660	691	0.12	0.23	3553	0.037888	0.799728	0.62487	0.79046	0.29097
10_58	5/17/21	170	3800	3970	0.2	250	6400	6650	0.09	0.145	3717	0.032575	0.791521	0.616923	0.780407	0.1858
10_59	6/2/21	120	3200	3320	0.24	30	960	990	0.2	0.22	3733	0.032098	0.790724	0.616164	0.779447	0.282251
10_60	8/28/21	130	3800	3930	0.27	77	2000	2077	0.1	0.185	3820	0.029626	0.786409	0.612086	0.774289	0.238929
10_61	10/16/21	200	5300	5500	0.2	24	840	864	0.12	0.16	3869	0.028319	0.783989	0.609823	0.771426	0.207408
10_62	11/11/21	140	3900	4040	0.2	16	490	506	0.12	0.16	3895	0.027648	0.782708	0.608632	0.76992	0.207814
10_63	12/3/21	110	2800	2910	0.24	11	390	401	0.1	0.17	3917	0.027094	0.781626	0.60763	0.768652	0.221166
10_64	5/9/22	140	4300	4440	0.24	9.6	360	360	0.11	0.175	4074	0.023445	0.773945	0.600605	0.759765	0.230334
10_65	6/6/22	89	3400	3489	0.24	7.1	66	66	0.11	0.175	4102	0.022848	0.772583	0.599375	0.75821	0.230807
10_66	8/2/22	69	2100	2169	0.24	7.8	72	72	0.11	0.175	4159	0.021679	0.769818	0.596891	0.755088	0.231767
10_67	10/3/22	97	3500	3597	0.24	7.9	110	110	0.09	0.165	4221	0.020476	0.766822	0.594219	0.751688	0.219506
10_68	11/3/22	81	3300	3381	0.2	9.2	94	94	0.09	0.145	4252	0.019899	0.765328	0.592895	0.750012	0.19333
10_69	12/5/22	100	4500	4600	0.25	8.7	170	170	0.09	0.17	4284	0.019321	0.763789	0.591535	0.748292	0.227184
10_70	5/2/23	79	3100	3179	0.22	9	100	100	0.1	0.16	4432	0.016859	0.756712	0.585342	0.740458	0.216082
10_71	6/14/23	49	3100	3149	0.21	6	81	81	0.1	0.155	4475	0.016204	0.754668	0.583572	0.738218	0.209965
10_72	8/28/23	66	3200	3266	0.21	8.5	130	130	0.09	0.15	4550	0.015122	0.751116	0.580512	0.734347	0.204263
10_73	10/17/23	35	2100	2135	0.2	5	110	110	0.07	0.135	4600	0.014441	0.748758	0.578492	0.731792	0.184479
10_74	11/11/23	97	5300	5397	0.24	6.9	150	150	0.11	0.175	4625	0.014113	0.747581	0.577487	0.730521	0.239555
10_75	12/25/23	44	2400	2444	0.21	7.9	180	180	0.09	0.15	4669	0.013552	0.745515	0.575729	0.728297	0.20596
10_76	5/2/24	45	2500	2545	0.22	7.8	140	140	0.08	0.15	4798	0.012033	0.73949	0.570637	0.721856	0.207798
10_77	6/24/24	55	2900	2955	0.16	8.6	63	63	0.07	0.115	4851	0.01146	0.737029	0.568572	0.719243	0.15989
10_78	8/29/24	28	2400	2428	0.17	9.4	210	210	0.1	0.135	4917	0.010784	0.733976	0.566021	0.716016	0.188543

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
11_1	11/29/11	100	140	240	0.22	390	460	850	0.36	0.29	260	0.787006	0.983779	0.999341	0.289809	1.000659
11_2	1/21/12	120	160	280	0.19	390	520	910	0.41	0.3	313	0.749503	0.980505	0.985148	0.285693	1.050079
11_3	6/13/12	5.5	120	180	0.16	24	3200	5100	0.62	0.39	457	0.656389	0.971664	0.949361	0.275315	1.41656
11_4	7/3/12	4.2	22	30	0.15	12	570	900	0.5	0.325	477	0.644406	0.970442	0.944692	0.273961	1.186302
11_5	7/24/12	11	560	890	0.25	31	4400	7100	0.89	0.57	498	0.632059	0.969161	0.939863	0.27256	2.09128
11_6	8/21/12	6.8	210	330	0.18	15	1600	2500	0.3	0.24	526	0.615964	0.967456	0.933542	0.270727	0.886502
11_7	11/12/12	4	20	34	0.58	17	1500	2600	0.6	0.59	609	0.570622	0.962418	0.915554	0.265511	2.222133
11_8	12/20/12	9.2	260	500	0.2	16	1500	2700	0.8	0.5	647	0.550992	0.960121	0.907677	0.263226	1.899506
11_9	5/13/13	28	61	89	0.14	3000	6000	9000	0.56	0.35	791	0.482539	0.951464	0.879715	0.255117	1.371917
11_10	6/24/13	13	28	41	0.14	430	890	1320	0.386	0.263	833	0.464226	0.948953	0.872085	0.252905	1.039917
11_11	8/2/13	31	54	85	0.1	700	1600	2300	0.386	0.243	872	0.447843	0.946628	0.865199	0.250908	0.968483
11_12	10/23/13	49	96	145	0.23	760	1800	2560	0.32	0.275	954	0.415259	0.941758	0.851315	0.246881	1.113896
11_13	12/2/13	180	450	630	0.14	1100	2600	3700	0.552	0.346	994	0.400235	0.939392	0.84482	0.244998	1.412257
11_14	2/3/14	52	140	192	0.11	1100	2700	3800	0.63	0.37	1057	0.377668	0.935677	0.834942	0.242133	1.528085
11_15	5/8/14	24	78	102	0.13	260	710	970	0.23	0.18	1151	0.34634	0.930161	0.820953	0.238076	0.75606
11_16	6/3/14	540	1500	2040	0.19	83	240	323	0.2	0.195	1177	0.338143	0.928641	0.817234	0.236998	0.822792
11_17	8/18/14	590	1700	2290	0.16	130	380	510	0.17	0.165	1253	0.315278	0.924212	0.806716	0.233948	0.705286
11_18	10/21/14	460	1400	1860	0.17	81	270	351	0.18	0.175	1317	0.297227	0.920499	0.798246	0.231491	0.755968
11_19	12/10/14	660	2100	2760	0.17	62	200	262	0.14	0.155	1367	0.283847	0.917609	0.791862	0.22964	0.67497
11_20	2/10/15	370	1200	1570	0.18	51	160	211	0.15	0.165	1429	0.268089	0.914037	0.784215	0.227422	0.725523
11_21	5/26/15	41	140	181	0.12	68	270	338	0.13	0.125	1534	0.243371	0.90802	0.771902	0.223852	0.558406
11_22	6/25/15	64	220	284	0.1	72	240	312	0.13	0.115	1564	0.236737	0.906308	0.768523	0.222872	0.515992
11_23	8/26/15	26	120	146	0.11	64	240	304	0.13	0.12	1626	0.223595	0.902781	0.761724	0.2209	0.543232
11_24	10/3/15	150	630	780	0.18	58	270	328	0.14	0.16	1664	0.215903	0.900626	0.757676	0.219726	0.72818
11_25	10/3/15	550	2300	2850	0.23	73	370	443	0.16	0.195	1664	0.215903	0.900626	0.757676	0.219726	0.887469
11_26	10/3/15	170	640	810	0.15	50	200	250	0.13	0.14	1664	0.215903	0.900626	0.757676	0.219726	0.637157
11_27	12/13/15	13	87	100	0.09	50	180	230	0.12	0.105	1735	0.202233	0.896613	0.750341	0.217599	0.482539
11_28	2/14/16	14	120	134	0.11	44	250	294	0.11	0.11	1798	0.19083	0.893067	0.74407	0.21578	0.509778
11_29	5/5/16	21	120	141	0.11	38	220	258	0.11	0.11	1879	0.177109	0.888528	0.736316	0.213532	0.515146
11_30	6/5/16	15	110	125	0.13	57	310	367	0.1	0.115	1910	0.172122	0.886797	0.733436	0.212696	0.540677
11_31	8/28/16	27	140	167	0.13	41	250	291	0.13	0.13	1994	0.159305	0.882124	0.72586	0.210499	0.617579
11_32	10/9/16	32	160	192	0.09	26	180	206	0.1	0.095	2036	0.153259	0.879797	0.722193	0.209436	0.4536
11_33	12/11/16	18	79	97	0.08	49	250	299	0.1	0.09	2099	0.144618	0.876317	0.716833	0.207882	0.432939
11_34	2/12/17	22	140	162	0.1	58	470	528	0.09	0.095	2162	0.136463	0.872852	0.711636	0.206374	0.460328
11_35	5/5/17	14	110	124	0.09	28	210	238	0.09	0.09	2244	0.126535	0.868361	0.7051	0.204479	0.440143
11_36	6/1/17	18	110	128	0.1	17	140	157	0.1	0.1	2271	0.123426	0.866888	0.703002	0.203871	0.490507
11_37	8/5/17	10	80	90	0.09	18	150	168	0.1	0.095	2336	0.116252	0.863351	0.698056	0.202436	0.469284
11_38	10/6/17	11	86	97	0.1	20	130	150	0.1	0.1	2398	0.109798	0.85999	0.693469	0.201106	0.49725
11_39	12/6/17	15	130	145	0.08	8.5	69	77.5	0.09	0.085	2459	0.103798	0.856697	0.689075	0.199832	0.425358
11_40	2/19/18	9.5	94	103.5	0.09	7.8	53	53	0.08	0.085	2534	0.096869	0.852665	0.683826	0.198309	0.428623
11_41	5/2/18	15	120	135	0.11	8.3	71	79.3	0.1	0.105	2606	0.090652	0.848812	0.678935	0.196891	0.533289
11_42	6/1/18	11	110	121	0.09	13	91	104	0.09	0.09	2636	0.088181	0.847212	0.676939	0.196312	0.458453
11_43	8/13/18	8.7	83	91.7	0.09	8.5	58	58	0.1	0.095	2709	0.082446	0.843331	0.672177	0.194931	0.487351
11_44	10/10/18	15	130	145	0.12	12	130	142	0.13	0.125	2767	0.078156	0.84026	0.668486	0.193861	0.644792
11_45	11/6/18	10	73	73	0.11	12	130	142	0.11	0.11	2794	0.076236	0.838834	0.666795	0.193371	0.568856
11_46	12/3/18	8.5	99	99	0.09	11	130	141	0.1	0.095	2821	0.074364	0.83741	0.66512	0.192885	0.492522
11_47	5/5/19	11	150	161	0.11	7.3	89	96.3	0.11	0.11	2974	0.064587	0.82939	0.655926	0.190219	0.578282
11_48	6/3/19	10	110	120	0.1	3.9	53	53	0.12	0.11	3003	0.062885	0.827879	0.654237	0.189729	0.579775
11_49	8/16/19	8.4	120	128.4	0.1	11	140	151	0.1	0.1	3077	0.058741	0.824034	0.649999	0.1885	0.530505
11_50	10/18/19	14	240	254	0.11	6.4	100	100	0.11	0.11	3140	0.055428	0.820775	0.646469	0.187476	0.586742
11_51	11/9/19	15	170	185	0.11	9.3	140	149.3	0.09	0.1	3162	0.054316	0.81964	0.645252	0.187123	0.534407
11_52	12/4/19	9.5	160	169.5	0.11	7	72	72	0.09	0.1	3187	0.05308	0.818352	0.64388	0.186725	0.535546
11_53	8/6/20	7.5	110	117.5	0.09	9.5	73	73	0.1	0.095	3433	0.042316	0.805787	0.630894	0.182959	0.519241
11_54	10/3/20	8.9	120	128.9	0.09	8.7	31	31	0.07	0.08	3491	0.040115	0.802853	0.627959	0.182108	0.4393
11_55	11/20/20	7.7	140	147.7	0.1	7.2	37	37	0.08	0.09	3539	0.038379	0.800432	0.625563	0.181413	0.496105
11_56	12/10/20	6.4	110	110	0.12	8.5	67	67	0.11	0.115	3559	0.037679	0.799426	0.624573	0.181126	0.634916
11_57	5/17/21	7.9	130	130	0.08	8.2	9	9	0.08	0.08	3717	0.032575	0.791521	0.616923	0.178908	0.447158
11_58	6/1/21	7	84	84	0.1	10	47	47	0.1	0.1	3732	0.032128	0.790774	0.616211	0.178701	0.559593
11_59	8/6/21	8.3	41	41	0.09	6.4	14	14	0.08	0.085	3798	0.030233	0.787498	0.61311	0.177802	0.47806
11_60	10/17/21	6.5	73	73	0.09	7.8	63	63	0.09	0.09	3870	0.028292	0.78394	0.609777	0.176835	0.508948
11_61	11/12/21	8.8	74	74	0.09	7.6	58	58	0.08	0.085	3896	0.027623	0.782659	0.608587	0.17649	0.481613
11_62	12/4/21	8.8	52	52	0.11	7.3	51	51	0.09	0.1	3918	0.027069	0.781577	0.607584	0.176199	0.567539
11_63	5/31/22	9.6	100	100	0.05	9.1	130	130	0.04	0.045	4096	0.022975	0.772875	0.599638	0.173895	0.258777
11_64	6/15/22	4.1	180	180	0.07	4.9	120	120	0.06	0.065	4111	0.022659	0.772146	0.598981	0.173705	0.374199
11_65	8/2/22	9.4	62	62	0.07	9.8	70	70	0.06	0.065	4159	0.021679	0.769818	0.596891	0.173099	0.375509
11_66	10/4/22	8.2	190	190	0.08	9.4	270	279.4	0.07	0.075	4222	0.020457	0.766774	0.594177	0.172311	0.435259
11_67	11/3/22	8.4	53	53	0.08	8.5	300	300	0.08	0.08	4252	0.019899	0.765328	0.592895	0.171939	0.46528
11_68	12/5/22	7.3	64	64	0.09	8.2	240	240	0.09	0.09	4284	0.019321	0.763789	0.591535	0.171545	0.524643
11_69	5/22/23	7.5	29	29	0.07	6.3	54	54	0.08	0.075	4452	0.016551	0.75576	0.584517	0.16951	0.442452
11_70	6/26/23	5.8	44	44	0.07	9.7	210	210	0.07	0.07	4487	0.016026	0.754098	0.58308	0.169093	0.413973
11_71	8/25/23	8.5	41	41	0.06	8.2	76	76	0.06	0.06	4547	0.015164	0.751258	0.580634	0.168384	0.356329
11_72	10/17/23	8.2	88	88	0.07	9.6	110	110	0.08	0.075	4600	0.014441	0.748758	0.578492	0.167763	0.44706
11_73	11/24/23	48	2800	2848	0.1	8.7	200	200	0.09	0.095	4638	0.013945	0.74697	0.576967	0.16732	0.567773
11_74	12/25/23	8.8	25	25	0.09	9.6	93	93	0.1	0.095	4669	0.013552	0.745515	0.575729	0.166961	0.568994
11_75	5/2/24	7.1	53	53	0.1	9.4	140	140	0.09	0.095	4798	0.012033	0.73949	0.570637	0.165485	0.574071
11_76	6/25/24	8.1	170	170	0.08	8.8	31	31	0.07	0.075	4852	0.01145	0.736983	0.568533	0.164875	0.454891
11_77	8/16/24	8.6	150	150	0.07	9.5	340	340	0.08	0.075	4904	0.010914	0.734576	0.566521	0.164291	0.456507

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
12_1	11/28/11	4300	5500	9800	2.1	2500	3300	5800	2.23	2.165	259	0.787731	0.983841	0.999614	2.164165	1.000386
12_2	1/16/12	2200	2800	5000	2.21	4900	6700	11600	2.65	2.43	308	0.752963	0.980813	0.986462	2.13569	1.137805
12_3	6/13/12	22	2300	3600	1.8	19	2600	3900	1.63	1.715	457	0.656389	0.971664	0.949361	2.055368	0.834401
12_4	7/4/12	25	3500	5600	1.6	15	1400	2200	1.5	1.55	478	0.643812	0.970381	0.94446	2.044756	0.758037
12_5	7/25/12	23	3400	5500	1.67	32	5600	9100	1.58	1.625	499	0.631477	0.9691	0.939635	2.03431	0.798796
12_6	8/22/12	30	5400	8700	1.76	18	2000	3300	1.7	1.73	527	0.615397	0.967395	0.933318	2.020634	0.856167
12_7	11/7/12	33	6000	10000	1.6	30	5400	9200	1.7	1.65	604	0.573256	0.962721	0.916607	1.984454	0.831463
12_8	12/20/12	30	4500	8200	1.66	23	3500	6400	1.44	1.55	647	0.550992	0.960121	0.907677	1.965121	0.788755
12_9	5/14/13	6600	13000	19600	1.32	2600	5400	8000	1.236	1.278	792	0.482095	0.951404	0.879531	1.904184	0.671153
12_10	6/25/13	3200	6800	10000	1.338	800	1700	2500	1.234	1.286	834	0.463798	0.948894	0.871907	1.887678	0.68126
12_11	8/1/13	3000	6900	9900	0.906	4100	9400	13500	1.164	1.035	871	0.448256	0.946688	0.865374	1.873534	0.552432
12_12	10/22/13	2400	5700	8100	0.166	2200	5100	7300	0.924	0.545	953	0.415641	0.941818	0.851479	1.843453	0.295641
12_13	12/4/13	3500	8500	12000	1.034	1600	4000	5600	1.638	1.336	996	0.399499	0.939274	0.8445	1.828343	0.730716
12_14	2/5/14	1700	4300	6000	0.954	1600	4100	5700	1.118	1.036	1059	0.376973	0.935559	0.834635	1.806984	0.573331
12_15	5/12/14	2700	7300	10000	0.93	1300	3500	4800	2.24	1.585	1155	0.345066	0.929927	0.820377	1.776116	0.892397
12_16	6/4/14	2200	6500	8700	1	2100	6000	8100	1.83	1.415	1178	0.337831	0.928582	0.817093	1.769005	0.799885
12_17	8/12/14	2900	8600	11500	0.89	2200	6700	8900	1.6	1.245	1247	0.317025	0.924561	0.807528	1.748298	0.712121
12_18	10/20/14	1600	5000	6600	0.89	440	1400	1840	1.46	1.175	1316	0.297501	0.920557	0.798376	1.728484	0.679787
12_19	12/9/14	3200	11000	14200	0.78	1200	4100	5300	1.61	1.195	1366	0.284108	0.917666	0.791988	1.714653	0.696934
12_20	2/11/15	4600	16000	20600	0.81	1200	4000	5200	1.47	1.14	1430	0.267842	0.91398	0.784094	1.697563	0.671551
12_21	5/22/15	1200	4500	5700	0.79	1400	4700	6100	0.76	0.775	1530	0.24427	0.908249	0.772357	1.672153	0.463474
12_22	6/26/15	4300	16000	20300	0.68	3800	15000	18800	0.76	0.72	1565	0.236519	0.906251	0.768411	1.66361	0.432794
12_23	8/26/15	1300	5100	6400	0.74	1500	5800	7300	0.69	0.715	1626	0.223595	0.902781	0.761724	1.649133	0.433561
12_24	10/3/15	1200	5500	6700	0.67	3500	14000	17500	0.6	0.635	1664	0.215903	0.900626	0.757676	1.640368	0.387108
12_25	10/3/15	1700	6800	8500	0.69	1700	7000	8700	0.59	0.64	1664	0.215903	0.900626	0.757676	1.640368	0.390156
12_26	10/3/15	1600	6400	8000	0.75	3800	16000	19800	0.7	0.725	1664	0.215903	0.900626	0.757676	1.640368	0.441974
12_27	12/15/15	1900	7800	9700	0.69	1100	4600	5700	0.68	0.685	1737	0.201861	0.8965	0.750138	1.624049	0.421785
12_28	2/15/16	1500	7600	9100	0.67	1100	5400	6500	0.65	0.66	1799	0.190654	0.89301	0.743972	1.610699	0.40976
12_29	5/7/16	570	2900	3470	0.64	660	3300	3960	0.55	0.595	1881	0.176783	0.888416	0.736129	1.593719	0.373341
12_30	6/2/16	1500	7000	8500	0.53	820	4100	4920	0.6	0.565	1907	0.172599	0.886965	0.733712	1.588487	0.355684
12_31	9/15/16	1500	8600	10100	0.57	600	3300	3900	0.53	0.55	2012	0.156685	0.881126	0.724279	1.568064	0.350751
12_32	10/22/16	1400	7900	9300	0.57	4900	27000	31900	0.75	0.66	2049	0.151435	0.879078	0.721073	1.561123	0.422773
12_33	12/16/16	1200	7000	8200	0.57	3600	21000	24600	0.74	0.655	2104	0.143953	0.876042	0.716415	1.551038	0.422298
12_34	2/13/17	1100	6200	7300	0.58	740	4900	5640	0.75	0.665	2163	0.136338	0.872797	0.711555	1.540516	0.431674
12_35	5/9/17	920	6500	7420	0.54	2000	14000	16000	0.75	0.645	2248	0.126069	0.868143	0.704788	1.525866	0.422711
12_36	6/6/17	900	5800	6700	0.53	1300	8900	10200	0.64	0.585	2276	0.122859	0.866615	0.702617	1.521165	0.384574
12_37	8/2/17	860	5800	6660	0.5	330	2600	2930	0.68	0.59	2333	0.116574	0.863514	0.698281	1.511778	0.390269
12_38	10/15/17	890	6900	7790	0.48	1400	11000	12400	0.65	0.565	2407	0.108892	0.859504	0.692814	1.499942	0.376681
12_39	12/12/17	810	7000	7810	0.48	450	3800	4250	0.65	0.565	2465	0.103226	0.856374	0.688649	1.490926	0.378959
12_40	2/5/18	1000	8900	9900	0.49	330	2900	3230	0.53	0.51	2520	0.098126	0.853416	0.684793	1.482578	0.343996
12_41	5/11/18	850	8000	8850	0.44	350	3400	3750	0.58	0.51	2615	0.089904	0.848332	0.678334	1.468593	0.347271
12_42	6/4/18	700	6400	7100	0.45	430	4100	4530	0.67	0.56	2639	0.087938	0.847052	0.676741	1.465143	0.382215
12_43	8/21/18	630	6500	7130	0.51	320	3500	3820	0.64	0.575	2717	0.081841	0.842906	0.671663	1.45415	0.39542
12_44	10/15/18	830	7700	8530	0.61	660	6800	7460	0.64	0.625	2772	0.077797	0.839995	0.668172	1.446592	0.43205
12_45	11/13/18	590	7000	7590	0.54	220	2600	2820	0.74	0.64	2801	0.075746	0.838465	0.666359	1.442668	0.443623
12_46	12/4/18	770	9100	9870	0.56	390	4600	4990	0.66	0.61	2822	0.074295	0.837358	0.665059	1.439852	0.423655
12_47	5/9/19		5500	5910	0.54	360	4100	4460	0.75	0.645	2978	0.06435	0.829182	0.655692	1.419574	0.454362
12_48	6/5/19	360	5500	5860	0.57	260	3100	3360	0.7	0.635	3005	0.062769	0.827775	0.654121	1.416173	0.448392
12_49	8/21/19	410	5800	6210	0.5	290	4300	4590	0.74	0.62	3082	0.058471	0.823775	0.649716	1.406636	0.440768
12_50	10/10/19	350	5000	5350	0.49	110	1900	2010	0.64	0.565	3132	0.055838	0.821188	0.646913	1.400567	0.403408
12_51	11/22/19	110	1900	2010	0.19	200	3400	3600	0.64	0.415	3175	0.05367	0.81897	0.644537	1.395423	0.297401
12_52	12/16/19	130	2200	2330	0.19	160	2700	2860	0.54	0.365	3199	0.052496	0.817735	0.643225	1.392582	0.262103
12_53	8/13/20	440	8500	8940	0.23	110	2200	2310	0.35	0.29	3440	0.042044	0.805432	0.630538	1.365114	0.212436
12_54	10/13/20	6.1	42	42	0.13	140	3200	3340	0.4	0.265	3501	0.039747	0.802348	0.627457	1.358445	0.195076
12_55	11/8/20	85	1800	1885	0.26	31	650	681	0.36	0.31	3527	0.038806	0.801037	0.626159	1.355635	0.228675
12_56	12/6/20	170	4200	4370	0.31	150	3300	3450	0.43	0.37	3555	0.037818	0.799627	0.624771	1.352629	0.273541
12_57	5/18/21	13	260	273	0.1	96	2400	2496	0.52	0.31	3718	0.032545	0.791471	0.616875	1.335535	0.232117
12_58	6/3/21	15	350	365	0.14	71	2100	2171	0.5	0.32	3734	0.032069	0.790675	0.616117	1.333893	0.239899
12_59	8/6/21	9	210	210	0.31	72	1900	1972	0.19	0.25	3798	0.030233	0.787498	0.61311	1.327382	0.188341
12_60	10/17/21	15	480	495	0.23	77	2200	2277	0.25	0.24	3870	0.028292	0.78394	0.609777	1.320168	0.181795
12_61	11/11/21	7	130	130	0.23	38	1200	1238	0.26	0.245	3895	0.027648	0.782708	0.608632	1.317689	0.185932
12_62	12/3/21	8.9	270	270	0.39	55	1700	1755	0.23	0.31	3917	0.027094	0.781626	0.60763	1.315519	0.235649
12_63	5/10/22	90	3000	3090	0.26	160	5300	5460	0.31	0.285	4075	0.023424	0.773896	0.600561	1.300215	0.219195
12_64	6/6/22	120	4300	4420	0.25	42	1700	1742	0.3	0.275	4102	0.022848	0.772583	0.599375	1.297647	0.211922
12_65	8/3/22	220	6800	7020	0.24	51	1700	1751	0.38	0.31	4160	0.021659	0.76977	0.596848	1.292176	0.239905
12_66	10/4/22	150	5700	5850	0.28	110	4300	4410	0.29	0.285	4222	0.020457	0.766774	0.594177	1.286392	0.22155
12_67	11/3/22	98	4800	4898	0.29	69	2500	2569	0.29	0.29	4252	0.019899	0.765328	0.592895	1.283617	0.225924
12_68	12/12/22	140	5000	5140	0.29	37	1300	1337	0.46	0.375	4291	0.019197	0.763453	0.591239	1.280031	0.292962
12_69	5/8/23	70	3100	3170	0.27	79	3100	3179	0.38	0.325	4438	0.016766	0.756426	0.585095	1.26873	0.256566
12_70	6/19/23	140	6900	7040	0.27	16	780	796	0.34	0.305	4480	0.016129	0.754431	0.583366	1.262988	0.241491
12_71	8/25/23	99	4700	4799	0.28	320	17000	17320	0.34	0.31	4547	0.015164	0.751258	0.580634	1.257072	0.246605
12_72	10/13/23	150	7700	7850	0.27	83	3900	3983	0.35	0.31	4596	0.014495	0.748946	0.578653	1.252783	0.247449
12_73	11/10/23	96	5600	5696	0.25	54	2900	2954	0.44	0.345	4624	0.014126	0.747628	0.577527	1.250347	0.275923
12_74	12/25/23	57	3600	3657	0.29	76	4900	4976	0.35	0.32	4669	0.013552	0.745515	0.575729	1.246453	0.256729
12_75	5/1/24	56	3200	3256	0.28	52	3200	3252	0.29	0.285	4797	0.012045	0.739537	0.570676	1.235514	0.230673
12_76	6/25/24	71	3900	3971	0.26	49	3100	3149	0.35	0.305	4852	0.01145	0.736983	0.568533	1.230874	0.247791
12_77	8/16/24	99	6300	6399	0.27	62	4300	4362	0.29	0.28	4904	0.010914	0.734576	0.566521	1.226519	0.228288

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
13_1	11/29/11	2600	3400	6000	1.09	2900	3800	6700	1.12	1.105	260	0.787006	0.983779	0.999341	1.104272	1.000659
13_2	1/20/12	2200	2800	5000	1.05	2400	3200	5600	1.12	1.085	312	0.750194	0.980567	0.98541	1.088878	0.996438
13_3	3/1/12	3100	4300	7400	0.95	980	1300	2280	1.06	1.005	353	0.722387	0.978041	0.974811	1.077166	0.933004
13_4	6/13/12	19	1800	2800	0.88	22	2700	4200	0.72	0.8	457	0.656389	0.971664	0.949361	1.049044	0.762599
13_5	7/4/12	16	1400	2200	0.85	18	1400	2200	0.69	0.77	478	0.643812	0.970381	0.94446	1.043629	0.73781
13_6	7/25/12	18	1800	3000	0.87	26	4400	7000	0.76	0.815	499	0.631477	0.9691	0.939635	1.038297	0.784939
13_7	8/22/12	16	1400	2300	0.85	18	1600	2600	0.63	0.74	527	0.615397	0.967395	0.933318	1.031317	0.717529
13_8	11/7/12	21	2000	3400	0.78	24	3200	5600	0.72	0.75	604	0.573256	0.962721	0.916607	1.012851	0.740484
13_9	12/20/12	22	1800	3300	0.78	18	1500	2700	0.74	0.76	647	0.550992	0.960121	0.907677	1.002983	0.757739
13_10	5/14/13	920	1800	2720	0.722	860	1700	2560	0.576	0.649	792	0.482095	0.951404	0.879531	0.971882	0.667777
13_11	6/25/13	1300	2700	4000	0.678	590	1200	1790	0.576	0.627	834	0.463798	0.948894	0.871907	0.963457	0.650782
13_12	8/2/13	800	1800	2600	0.602	980	2100	3080	0.45	0.526	872	0.447843	0.946628	0.865199	0.956045	0.550183
13_13	10/22/13	1400	3200	4600	0.49	570	1300	1870	0.38	0.435	953	0.415641	0.941818	0.851479	0.940885	0.462331
13_14	12/4/13	1100	2700	3800	0.732	750	1900	2650	0.532	0.632	996	0.399499	0.939274	0.8445	0.933173	0.677259
13_15	2/5/14	1100	2700	3800	0.624	560	1600	2160	0.414	0.519	1059	0.376973	0.935559	0.834635	0.922271	0.562741
13_16	5/12/14	560	1500	2060	0.68	740	2000	2740	0.54	0.61	1155	0.345066	0.929927	0.820377	0.906516	0.672906
13_17	6/4/14	700	2100	2800	0.62	500	1400	1900	0.55	0.585	1178	0.337831	0.928582	0.817093	0.902887	0.647921
13_18	8/12/14	850	2600	3450	0.55	730	2000	2730	0.45	0.5	1247	0.317025	0.924561	0.807528	0.892318	0.560338
13_19	10/20/14	1000	3100	4100	0.56	390	1300	1690	0.48	0.52	1316	0.297501	0.920557	0.798376	0.882205	0.589432
13_20	12/9/14	800	2800	3600	0.5	690	2400	3090	0.46	0.48	1366	0.284108	0.917666	0.791988	0.875146	0.54848
13_21	2/11/15	460	1600	2060	0.54	600	2300	2900	0.41	0.475	1430	0.267842	0.91398	0.784094	0.866424	0.548231
13_22	5/21/15	390	1500	1890	0.51	400	1600	2000	0.31	0.41	1529	0.244495	0.908306	0.772471	0.85358	0.48033
13_23	6/26/15	650	2400	3050	0.57	410	1600	2010	0.31	0.44	1565	0.236519	0.906251	0.768411	0.849094	0.518199
13_24	8/7/15	570	2100	2670	0.5	190	730	920	0.33	0.415	1607	0.227543	0.90386	0.763782	0.843979	0.491718
13_25	10/3/15	1300	5300	6600	0.47	220	960	1180	0.27	0.37	1664	0.215903	0.900626	0.757676	0.837232	0.441933
13_26	10/3/15	960	3800	4760	0.42	170	750	920	0.31	0.365	1664	0.215903	0.900626	0.757676	0.837232	0.435961
13_27	10/3/15	990	4100	5090	0.48	180	680	860	0.27	0.375	1664	0.215903	0.900626	0.757676	0.837232	0.447905
13_28	12/18/15	560	2700	3260	0.41	620	2700	3320	0.34	0.375	1740	0.201304	0.896331	0.749835	0.828568	0.452588
13_29	2/17/16	750	3500	4250	0.42	480	2200	2680	0.31	0.365	1801	0.190303	0.892898	0.743777	0.821873	0.444107
13_30	5/7/16	380	1800	2180	0.39	760	4000	4760	0.28	0.335	1881	0.176783	0.888416	0.736129	0.813422	0.41184
13_31	6/2/16	670	3200	3870	0.41	270	1500	1770	0.27	0.34	1907	0.172599	0.886965	0.733712	0.810752	0.419364
13_32	8/27/16	740	4200	4940	0.4	350	2100	2450	0.32	0.36	1993	0.159452	0.88218	0.725948	0.802173	0.448781
13_33	10/22/16	780	4500	5280	0.34	320	1900	2220	0.2	0.27	2049	0.151435	0.879078	0.721073	0.796786	0.338862
13_34	12/4/16	350	2200	2550	0.33	180	1100	1280	0.22	0.275	2092	0.145553	0.876703	0.71742	0.792749	0.346894
13_35	2/13/17	480	3400	3880	0.3	190	1500	1690	0.18	0.24	2163	0.136338	0.872797	0.711555	0.786268	0.30524
13_36	5/5/17	580	4300	4880	0.36	170	1200	1370	0.18	0.27	2244	0.126535	0.868361	0.7051	0.779136	0.346538
13_37	6/16/17	420	3300	3720	0.31	150	1100	1250	0.2	0.255	2286	0.121732	0.86607	0.701848	0.775542	0.328802
13_38	8/30/17	420	3000	3420	0.24	220	1500	1720	0.18	0.21	2361	0.113605	0.861994	0.696191	0.769292	0.272978
13_39	10/19/17	240	2100	2340	0.25	400	3500	3900	0.19	0.22	2411	0.108491	0.859287	0.692523	0.765238	0.287492
13_40	12/12/17	380	3200	3580	0.26	250	2100	2350	0.18	0.22	2465	0.103226	0.856374	0.688649	0.760958	0.289109
13_41	2/16/18	210	1900	2110	0.28	190	1700	1890	0.18	0.23	2531	0.097137	0.852826	0.684033	0.755856	0.304291
13_42	5/28/18	240	2600	2840	0.2	190	2000	2190	0.16	0.18	2632	0.088507	0.847425	0.677204	0.74831	0.240542
13_43	6/19/18	330	3400	3730	0.2	280	2800	3080	0.16	0.18	2654	0.086731	0.846253	0.675752	0.746706	0.241059
13_44	8/8/18	310	3000	3310	0.25	230	2300	2530	0.18	0.215	2704	0.082827	0.843596	0.672499	0.743111	0.289324
13_45	10/3/18	310	3500	3810	0.3	230	2700	2930	0.21	0.255	2760	0.078662	0.84063	0.668927	0.739165	0.344984
13_46	11/15/18	350	3900	4250	0.3	190	2000	2190	0.22	0.26	2803	0.075607	0.838359	0.666235	0.73619	0.35317
13_47	12/16/18	240	2600	2840	0.28	180	2000	2180	0.2	0.24	2834	0.073478	0.836726	0.66432	0.734074	0.326943
13_48	5/9/19	110	1500	1610	0.29	150	2000	2150	0.21	0.25	2978	0.06435	0.829182	0.655692	0.72454	0.345046
13_49	6/13/19	260	3700	3960	0.28	110	1700	1810	0.23	0.255	3013	0.062308	0.827358	0.653659	0.722293	0.353042
13_50	8/16/19	130	1900	2030	0.29	120	1600	1720	0.2	0.245	3077	0.058741	0.824034	0.649999	0.718249	0.341107
13_51	10/11/19	240	3800	4040	0.28	56	840	896	0.17	0.225	3133	0.055787	0.821137	0.646858	0.714778	0.314783
13_52	11/28/19	230	3700	3930	0.26	100	1700	1800	0.18	0.22	3181	0.053374	0.818661	0.644208	0.71185	0.309054
13_53	12/17/19	130	2200	2330	0.27	67	980	1047	0.19	0.23	3200	0.052448	0.817683	0.64317	0.710703	0.323623
13_54	8/24/20	99	2000	2099	0.2	100	1900	2000	0.15	0.175	3451	0.04162	0.804875	0.629978	0.696126	0.251391
13_55	10/21/20	230	4900	5130	0.18	65	1400	1465	0.13	0.155	3509	0.039455	0.801944	0.627057	0.692898	0.223698
13_56	11/26/20	160	3800	3960	0.25	65	1500	1565	0.18	0.215	3545	0.038168	0.80013	0.625265	0.690918	0.31118
13_57	12/19/20	110	2400	2510	0.32	77	1800	1877	0.18	0.25	3568	0.037368	0.798974	0.624129	0.689663	0.362496
13_58	5/18/21	22	580	602	0.17	58	1100	1158	0.12	0.145	3718	0.032545	0.791471	0.616875	0.681647	0.21272
13_59	6/2/21	69	1700	1769	0.23	11	370	381	0.15	0.19	3733	0.032098	0.790724	0.616164	0.680861	0.279058
13_60	8/6/21	83	2500	2583	0.18	35	880	915	0.15	0.165	3798	0.030233	0.787498	0.61311	0.677486	0.243547
13_61	10/17/21	72	2200	2272	0.18	47	1500	1547	0.15	0.165	3870	0.028292	0.78394	0.609777	0.673804	0.244878
13_62	11/12/21	100	2800	2900	0.2	35	1000	1035	0.15	0.175	3896	0.027623	0.782659	0.608587	0.672488	0.260228
13_63	12/4/21	72	2800	2872	0.23	35	1200	1235	0.17	0.2	3918	0.027069	0.781577	0.607584	0.671381	0.297894
13_64	5/10/22	250	8400	8650	0.21	54	2000	2054	0.15	0.18	4075	0.023424	0.773896	0.600561	0.66362	0.27124
13_65	6/6/22	34	1200	1234	0.2	34	1100	1134	0.14	0.17	4102	0.022848	0.772583	0.599375	0.66231	0.256678
13_66	8/2/22	220	8000	8220	0.2	73	2200	2273	0.14	0.17	4159	0.021679	0.769818	0.596891	0.659565	0.257746
13_67	10/4/22	140	6100	6240	0.23	20	950	970	0.17	0.2	4222	0.020457	0.766774	0.594177	0.656565	0.304616
13_68	11/3/22	70	2500	2570	0.24	27	1200	1227	0.13	0.185	4252	0.019899	0.765328	0.592895	0.655149	0.282379
13_69	12/5/22	130	5400	5530	0.25	43	1900	1943	0.16	0.205	4284	0.019321	0.763789	0.591535	0.653646	0.313625
13_70	5/9/23	130	7600	7730	0.24	24	1200	1224	0.16	0.2	4439	0.01675	0.756379	0.585053	0.646484	0.309366
13_71	6/26/23	150	7600	7750	0.23	33	1500	1533	0.18	0.205	4487	0.016026	0.754098	0.58308	0.644303	0.318173
13_72	8/25/23	29	1200	1229	0.23	33	1300	1333	0.17	0.2	4547	0.015164	0.751258	0.580634	0.6416	0.311721
13_73	10/13/23	180	8800	8980	0.2	30	1500	1530	0.14	0.17	4596	0.014495	0.748946	0.578653	0.639411	0.26587
13_74	11/24/23	120	7300	7420	0.2	18	1200	1218	0.15	0.175	4638	0.013945	0.74697	0.576967	0.637548	0.274489
13_75	12/25/23	81	4900	4981	0.2	24	1500	1524	0.13	0.165	4669	0.013552	0.745515	0.575729	0.63618	0.25936
13_76	5/1/24	38	2500	2538	0.22	23	1400	1423	0.14	0.18	4797	0.012045	0.739537	0.570676	0.630597	0.285444
13_77	6/25/24	58	3700	3758	0.23	26	1600	1626	0.15	0.19	4852	0.01145	0.736983	0.568533	0.628229	0.302437
13_78	8/16/24	28	2300	2328	0.21	14	790	804	0.13	0.17	4904	0.010914	0.734576	0.566521	0.626006	0.271563

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
14_1	11/29/11	1400	1800	3200	0.5	600	780	1380	0.47	0.485	260	0.787006	0.983779	0.999341	0.48468	1.000659
14_2	1/20/12	490	630	1120	0.47	1300	1900	3200	0.48	0.475	312	0.750194	0.980567	0.98541	0.477924	0.993882
14_3	3/2/12	1100	1600	2700	0.34	900	1300	2200	0.43	0.385	354	0.721722	0.977979	0.974557	0.47266	0.814539
14_4	6/12/12	12	520	830	0.35	13	880	1300	0.4	0.375	456	0.656994	0.971725	0.949597	0.460554	0.814236
14_5	7/4/12	13	760	1200	0.3	14	790	1300	0.34	0.32	478	0.643812	0.970381	0.94446	0.458063	0.698594
14_6	7/24/12	16	990	1600	0.32	24	1800	3000	0.37	0.345	498	0.632059	0.969161	0.939863	0.455834	0.756855
14_7	8/22/12	13	720	1200	0.24	13	900	1500	0.39	0.315	527	0.615397	0.967395	0.933318	0.452659	0.695887
14_8	11/7/12	14	800	1400	0.31	18	1600	2700	0.35	0.33	604	0.573256	0.962721	0.916607	0.444554	0.742316
14_9	12/20/12	9.5	340	640	0.32	17	1100	2000	0.35	0.335	647	0.550992	0.960121	0.907677	0.440223	0.760977
14_10	5/14/13	320	700	1020	0.292	480	1000	1480	0.376	0.334	792	0.482095	0.951404	0.879531	0.426573	0.782985
14_11	6/25/13	500	1000	1500	0.396	840	1700	2540	0.298	0.347	834	0.463798	0.948894	0.871907	0.422875	0.820574
14_12	8/1/13	43	94	137	0.158	560	1300	1860	0.28	0.219	871	0.448256	0.946688	0.865374	0.419706	0.521794
14_13	10/22/13	46	120	166	0.14	650	1600	2250	0.24	0.19	953	0.415641	0.941818	0.851479	0.412968	0.460085
14_14	12/4/13	120	290	410	0.2	420	1100	1520	0.266	0.233	996	0.399499	0.939274	0.8445	0.409583	0.568872
14_15	2/5/14	72	190	262	0.166	260	710	970	0.274	0.22	1059	0.376973	0.935559	0.834635	0.404798	0.543481
14_16	5/12/14	81	260	341	0.17	520	1400	1920	0.27	0.22	1155	0.345066	0.929927	0.820377	0.397883	0.552927
14_17	6/4/14	91	210	301	0.18	400	1100	1500	0.27	0.225	1178	0.337831	0.928582	0.817093	0.39629	0.567766
14_18	8/12/14	12	31	43	0.15	390	1200	1590	0.26	0.205	1247	0.317025	0.924561	0.807528	0.391651	0.523425
14_19	10/20/14	65	220	285	0.16	310	880	1190	0.26	0.21	1316	0.297501	0.920557	0.798376	0.387212	0.542338
14_20	12/9/14	270	800	1070	0.21	280	970	1250	0.21	0.21	1366	0.284108	0.917666	0.791988	0.384114	0.546713
14_21	2/11/15	21	82	103	0.16	350	1100	1450	0.26	0.21	1430	0.267842	0.91398	0.784094	0.380285	0.552217
14_22	5/22/15	20	73	93	0.15	420	1600	2020	0.23	0.19	1530	0.24427	0.908249	0.772357	0.374593	0.507217
14_23	6/24/15	49	190	239	0.15	720	2700	3420	0.19	0.17	1563	0.236956	0.906365	0.768635	0.372788	0.456024
14_24	8/28/15	67	290	357	0.12	320	1400	1720	0.18	0.15	1628	0.223183	0.902667	0.761509	0.369332	0.406139
14_25	10/8/15	18	89	107	0.15	390	1800	2190	0.2	0.175	1669	0.214911	0.900342	0.75715	0.367218	0.476557
14_26	10/8/15	21	82	103	0.14	270	1300	1570	0.21	0.175	1669	0.214911	0.900342	0.75715	0.367218	0.476557
14_27	10/8/15	39	200	239	0.15	530	2300	2830	0.25	0.2	1669	0.214911	0.900342	0.75715	0.367218	0.544636
14_28	12/17/15	14	91	105	0.15	280	1200	1480	0.18	0.165	1739	0.201489	0.896387	0.749936	0.363719	0.453647
14_29	2/13/16	42	270	312	0.12	190	970	1160	0.17	0.145	1797	0.191006	0.893123	0.744168	0.360921	0.40175
14_30	5/14/16	110	640	750	0.14	180	880	1060	0.18	0.16	1888	0.175646	0.888025	0.735475	0.356705	0.44855
14_31	6/3/16	16	100	116	0.13	240	1200	1440	0.17	0.15	1908	0.17244	0.886909	0.73362	0.355806	0.421578
14_32	8/27/16	11	71	82	0.13	170	930	1100	0.17	0.15	1993	0.159452	0.88218	0.725948	0.352085	0.426033
14_33	10/22/16	77	480	557	0.12	130	780	910	0.17	0.145	2049	0.151435	0.879078	0.721073	0.34972	0.414617
14_34	12/7/16	52	290	342	0.12	110	600	710	0.16	0.14	2095	0.145152	0.876538	0.717168	0.347827	0.402499
14_35	2/20/17	44	290	334	0.12	57	370	427	0.16	0.14	2170	0.135461	0.872412	0.710987	0.344829	0.405999
14_36	5/19/17	15	150	165	0.12	130	990	1120	0.14	0.13	2258	0.124913	0.867597	0.704009	0.341444	0.380735
14_37	6/21/17	21	200	221	0.11	160	1100	1260	0.16	0.135	2291	0.121173	0.865798	0.701465	0.34021	0.396813
14_38	8/15/17	34	300	334	0.11	130	920	1050	0.15	0.13	2346	0.115186	0.862808	0.697308	0.338194	0.384395
14_39	10/19/17	130	990	1120	0.1	12	78	90	0.14	0.12	2411	0.108491	0.859287	0.692523	0.335874	0.357277
14_40	12/21/17	21	180	201	0.12	210	1900	2110	0.14	0.13	2474	0.102374	0.855889	0.688012	0.333686	0.389588
14_41	2/15/18	6.1	65	65	0.11	130	1200	1330	0.13	0.12	2530	0.097227	0.85288	0.684102	0.331789	0.361675
14_42	5/29/18	13	110	123	0.11	140	1400	1540	0.13	0.12	2633	0.088425	0.847372	0.677137	0.328412	0.365395
14_43	6/20/18	7.7	97	104.7	0.12	170	1800	1970	0.15	0.135	2655	0.086651	0.8462	0.675687	0.327708	0.411952
14_44	8/27/18	13	110	123	0.11	120	1200	1320	0.14	0.125	2723	0.081389	0.842588	0.671279	0.32557	0.383942
14_45	10/20/18	16	160	176	0.14	110	1200	1310	0.17	0.155	2777	0.07744	0.839731	0.667858	0.323911	0.478526
14_46	11/13/18	7.7	72	79.7	0.14	130	1600	1730	0.18	0.16	2801	0.075746	0.838465	0.666359	0.323184	0.495074
14_47	12/7/18	12	140	152	0.13	78	1000	1078	0.15	0.14	2825	0.07409	0.8372	0.664874	0.322464	0.434157
14_48	5/17/19	21	240	261	0.13	56	740	796	0.15	0.14	2986	0.063877	0.828764	0.655226	0.317784	0.44055
14_49	6/18/19	8	83	91	0.14	84	1300	1384	0.17	0.155	3018	0.062022	0.827098	0.65337	0.316884	0.489137
14_50	8/9/19	5.6	66	66	0.14	83	1200	1283	0.16	0.15	3070	0.059121	0.824397	0.650396	0.315442	0.475523
14_51	10/11/19	5.2	86	91.2	0.13	100	1600	1700	0.15	0.14	3133	0.055787	0.821137	0.646858	0.313726	0.446249
14_52	11/27/19	16	190	206	0.12	57	880	937	0.15	0.135	3180	0.053423	0.818713	0.644263	0.312468	0.432045
14_53	12/19/19	10	180	190	0.13	73	1100	1173	0.15	0.14	3202	0.052351	0.817581	0.643061	0.311885	0.448884
14_54	8/26/20	6.3	49	49	0.08	72	1500	1572	0.08	0.08	3453	0.041544	0.804774	0.629877	0.30549	0.261874
14_55	10/5/20	7.7	110	117.7	0.11	61	1200	1261	0.15	0.13	3493	0.040041	0.802752	0.627858	0.304511	0.426913
14_56	11/27/20	8.9	210	218.9	0.12	74	1600	1674	0.15	0.135	3546	0.038133	0.80008	0.625216	0.30323	0.445207
14_57	12/18/20	5.6	120	125.6	0.15	48	1100	1148	0.15	0.15	3567	0.037402	0.799024	0.624179	0.302727	0.495496
14_58	5/18/21	9.5	37	37	0.07	29	510	539	0.07	0.07	3718	0.032545	0.791471	0.616875	0.299185	0.233969
14_59	6/2/21	8.2	59	59	0.11	20	770	790	0.11	0.11	3733	0.032098	0.790724	0.616164	0.29884	0.36809
14_60	8/6/21	34	830	864	0.12	7.5	130	130	0.15	0.135	3798	0.030233	0.787498	0.61311	0.297358	0.453998
14_61	10/17/21	7.9	96	96	0.11	21	600	621	0.15	0.13	3870	0.028292	0.78394	0.609777	0.295742	0.439572
14_62	11/11/21	9.2	62	62	0.11	24	930	954	0.11	0.11	3895	0.027648	0.782708	0.608632	0.295187	0.372646
14_63	12/4/21	8.8	110	110	0.13	36	730	766	0.14	0.135	3918	0.027069	0.781577	0.607584	0.294678	0.458127
14_64	5/10/22	4.8	160	160	0.12	27	810	837	0.13	0.125	4075	0.023424	0.773896	0.600561	0.291272	0.429152
14_65	6/6/22	9.3	94	94	0.11	12	210	222	0.1	0.105	4102	0.022848	0.772583	0.599375	0.290697	0.361201
14_66	8/2/22	7.8	280	280	0.11	17	580	597	0.12	0.115	4159	0.021679	0.769818	0.596891	0.289492	0.397247
14_67	10/4/22	9.3	130	130	0.11	22	850	872	0.1	0.105	4222	0.020457	0.766774	0.594177	0.288176	0.364361
14_68	11/3/22	8.3	420	420	0.13	18	600	618	0.11	0.12	4252	0.019899	0.765328	0.592895	0.287554	0.417313
14_69	12/5/22	7.6	320	320	0.09	40	1700	1740	0.14	0.115	4284	0.019321	0.763789	0.591535	0.286894	0.400844
14_70	5/22/23	8	210	210	0.1	18	680	698	0.11	0.105	4452	0.016551	0.75576	0.584517	0.283491	0.370382
14_71	6/19/23	7.4	120	120	0.11	14	580	594	0.12	0.115	4480	0.016129	0.754431	0.583366	0.282933	0.406457
14_72	8/25/23	15	670	685	0.1	16	650	666	0.11	0.105	4547	0.015164	0.751258	0.580634	0.281607	0.37286
14_73	10/17/23	10	560	560	0.1	7.6	570	570	0.12	0.11	4600	0.014441	0.748758	0.578492	0.280568	0.392061
14_74	11/24/23	9.3	380	389.3	0.12	12	890	902	0.11	0.115	4638	0.013945	0.74697	0.576967	0.279829	0.410966
14_75	12/25/23	6.3	350	350	0.11	21	880	901	0.12	0.115	4669	0.013552	0.745515	0.575729	0.279228	0.411849
14_76	5/1/24	9.1	490	490	0.11	13	760	773	0.11	0.11	4797	0.012045	0.739537	0.570676	0.276778	0.39743
14_77	6/25/24	7.4	400	407.4	0.11	7.3	700	700	0.12	0.115	4852	0.01145	0.736983	0.568533	0.275739	0.417062
14_78	8/16/24	11	470	481	0.08	11	950	961	0.09	0.085	4904	0.010914	0.734576	0.566521	0.274763	0.309358

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
15_1	11/29/11	1000	1300	2300	0.41	2000	2500	4500	0.48	0.445	260	0.787006	0.983779	0.999341	0.444707	1.000659
15_2	1/20/12	840	1100	1940	0.42	660	860	1520	0.48	0.45	312	0.750194	0.980567	0.98541	0.438507	1.026208
15_3	3/2/12	1100	1500	2600	0.38	920	1300	2220	0.43	0.405	354	0.721722	0.977979	0.974557	0.433678	0.933873
15_4	6/12/12	15	810	1300	0.43	12	910	1400	0.41	0.42	456	0.656994	0.971725	0.949597	0.422571	0.993917
15_5	7/3/12	8	310	470	0.38	8.9	270	410	0.37	0.375	477	0.644406	0.970442	0.944692	0.420388	0.892033
15_6	7/24/12	18	1200	2000	0.4	13	670	1100	0.36	0.38	498	0.632059	0.969161	0.939863	0.418239	0.908571
15_7	8/22/12	13	580	960	0.36	9.4	380	640	0.33	0.345	527	0.615397	0.967395	0.933318	0.415327	0.830671
15_8	11/7/12	10	480	830	0.36	13	640	1100	0.35	0.355	604	0.573256	0.962721	0.916607	0.40789	0.870333
15_9	12/20/12	16	1200	2100	0.37	18	960	1800	0.39	0.38	647	0.550992	0.960121	0.907677	0.403916	0.940789
15_10	5/14/13	260	500	760	0.356	400	790	1190	0.288	0.322	792	0.482095	0.951404	0.879531	0.391391	0.822706
15_11	6/25/13	630	1300	1930	0.338	170	370	540	0.332	0.335	834	0.463798	0.948894	0.871907	0.387998	0.863406
15_12	8/2/13	420	940	1360	0.3	370	860	1230	0.3	0.3	872	0.447843	0.946628	0.865199	0.385014	0.779193
15_13	10/22/13	970	2300	3270	0.23	520	1200	1720	0.18	0.205	953	0.415641	0.941818	0.851479	0.378908	0.541028
15_14	12/5/13	530	1300	1830	0.302	260	600	860	0.282	0.292	997	0.399131	0.939215	0.84434	0.375731	0.777151
15_15	2/6/14	330	900	1230	0.318	450	1100	1550	0.29	0.304	1060	0.376626	0.9355	0.834482	0.371344	0.818647
15_16	5/12/14	330	910	1240	0.28	370	1000	1370	0.3	0.29	1155	0.345066	0.929927	0.820377	0.365068	0.794373
15_17	6/4/14	450	1200	1650	0.33	390	1100	1490	0.29	0.31	1178	0.337831	0.928582	0.817093	0.363606	0.852571
15_18	8/12/14	160	450	610	0.3	310	930	1240	0.26	0.28	1247	0.317025	0.924561	0.807528	0.35935	0.779185
15_19	10/20/14	220	770	990	0.29	280	780	1060	0.25	0.27	1316	0.297501	0.920557	0.798376	0.355277	0.75997
15_20	12/9/14	620	2100	2720	0.26	180	620	800	0.26	0.26	1366	0.284108	0.917666	0.791988	0.352434	0.737726
15_21	2/11/15	390	1300	1690	0.23	410	1500	1910	0.2	0.215	1430	0.267842	0.91398	0.784094	0.348922	0.616184
15_22	5/22/15	280	1100	1380	0.25	400	1500	1900	0.23	0.24	1530	0.24427	0.908249	0.772357	0.343699	0.698286
15_23	6/23/15	490	1900	2390	0.26	410	1600	2010	0.24	0.25	1562	0.237174	0.906422	0.768746	0.342092	0.730797
15_24	8/31/15	250	1100	1350	0.19	320	1500	1820	0.19	0.19	1631	0.222567	0.902497	0.761187	0.338728	0.560922
15_25	10/5/15	790	3400	4190	0.36	520	2000	2520	0.24	0.3	1666	0.215505	0.900512	0.757465	0.337072	0.890018
15_26	10/5/15	550	2600	3150	0.32	520	2200	2720	0.21	0.265	1666	0.215505	0.900512	0.757465	0.337072	0.786182
15_27	10/5/15	1100	4200	5300	0.34	470	2000	2470	0.21	0.275	1666	0.215505	0.900512	0.757465	0.337072	0.81585
15_28	12/17/15	430	2000	2430	0.35	290	1400	1690	0.23	0.29	1739	0.201489	0.896387	0.749936	0.333722	0.868988
15_29	2/13/16	630	3200	3830	0.26	180	970	1150	0.17	0.215	1797	0.191006	0.893123	0.744168	0.331155	0.649244
15_30	5/13/16	620	3400	4020	0.31	120	670	790	0.2	0.255	1887	0.175808	0.888081	0.735568	0.327328	0.779036
15_31	6/3/16	460	2600	3060	0.33	230	1400	1630	0.22	0.275	1908	0.17244	0.886909	0.73362	0.326461	0.842367
15_32	9/5/16	540	2900	3440	0.25	280	1600	1880	0.18	0.215	2002	0.158136	0.88168	0.725156	0.322694	0.666265
15_33	10/28/16	240	1500	1740	0.22	170	950	1120	0.2	0.21	2055	0.1506	0.878746	0.720559	0.320649	0.654923
15_34	12/6/16	540	3400	3940	0.27	130	690	820	0.15	0.21	2094	0.145285	0.876593	0.717252	0.319177	0.657942
15_35	2/20/17	510	3200	3710	0.26	110	690	800	0.17	0.215	2170	0.135461	0.872412	0.710987	0.316389	0.679543
15_36	5/17/17	180	1400	1580	0.23	92	680	772	0.15	0.19	2256	0.125143	0.867706	0.704165	0.313353	0.606344
15_37	6/21/17	210	1600	1810	0.21	79	730	809	0.17	0.19	2291	0.121173	0.865798	0.701465	0.312152	0.608678
15_38	8/15/17	390	2800	3190	0.22	86	630	716	0.15	0.185	2346	0.115186	0.862808	0.697308	0.310302	0.596194
15_39	10/19/17	210	1700	1910	0.26	69	620	689	0.16	0.21	2411	0.108491	0.859287	0.692523	0.308173	0.681436
15_40	12/21/17	410	3500	3910	0.27	110	1000	1110	0.17	0.22	2474	0.102374	0.855889	0.688012	0.306165	0.718566
15_41	2/15/18	250	2400	2650	0.19	150	1200	1350	0.16	0.175	2530	0.097227	0.85288	0.684102	0.304425	0.574854
15_42	5/29/18	17	140	157	0.1	130	1400	1530	0.1	0.1	2633	0.088425	0.847372	0.677137	0.301326	0.331866
15_43	6/20/18	14	120	134	0.1	140	1600	1740	0.12	0.11	2655	0.086651	0.8462	0.675687	0.30068	0.365837
15_44	8/27/18	15	160	175	0.11	68	780	848	0.11	0.11	2723	0.081389	0.842588	0.671279	0.298719	0.368239
15_45	10/20/18	12	150	162	0.11	66	740	806	0.15	0.13	2777	0.07744	0.839731	0.667858	0.297197	0.437421
15_46	11/13/18	10	130	140	0.11	52	630	682	0.14	0.125	2801	0.075746	0.838465	0.666359	0.29653	0.421543
15_47	12/7/18	18	190	208	0.11	68	870	938	0.12	0.115	2825	0.07409	0.8372	0.664874	0.295869	0.388686
15_48	5/17/19	14	170	184	0.12	71	830	901	0.12	0.12	2986	0.063877	0.828764	0.655226	0.291575	0.411557
15_49	6/18/19	12	120	132	0.12	59	820	879	0.13	0.125	3018	0.062022	0.827098	0.65337	0.29075	0.429923
15_50	8/9/19	25	270	295	0.11	55	740	795	0.14	0.125	3070	0.059121	0.824397	0.650396	0.289426	0.431889
15_51	10/11/19	54	720	774	0.12	72	960	1032	0.13	0.125	3133	0.055787	0.821137	0.646858	0.287852	0.434251
15_52	11/27/19	13	210	223	0.15	30	400	430	0.13	0.14	3180	0.053423	0.818713	0.644263	0.286697	0.48832
15_53	12/19/19	14	190	204	0.15	20	340	360	0.13	0.14	3202	0.052351	0.817581	0.643061	0.286162	0.489233
15_54	8/25/20	24	510	534	0.12	45	870	915	0.12	0.12	3452	0.041582	0.804825	0.629928	0.280318	0.428085
15_55	10/5/20	20	370	390	0.13	33	610	643	0.13	0.13	3493	0.040041	0.802752	0.627858	0.279397	0.465288
15_56	11/27/20	25	480	505	0.15	14	320	334	0.15	0.15	3546	0.038133	0.80008	0.625216	0.278221	0.53914
15_57	12/19/20	25	440	465	0.16	20	500	520	0.15	0.155	3568	0.037368	0.798974	0.624129	0.277738	0.558081
15_58	5/18/21	25	670	695	0.11	31	750	781	0.1	0.105	3718	0.032545	0.791471	0.616875	0.27451	0.3825
15_59	6/2/21	22	530	552	0.14	17	650	667	0.12	0.13	3733	0.032098	0.790724	0.616164	0.274193	0.474119
15_60	8/6/21	15	300	315	0.15	9.5	220	229.5	0.13	0.14	3798	0.030233	0.787498	0.61311	0.272834	0.513133
15_61	10/17/21	13	360	373	0.13	33	970	1003	0.13	0.13	3870	0.028292	0.78394	0.609777	0.271351	0.479084
15_62	11/12/21	9.6	320	320	0.13	23	600	623	0.15	0.14	3896	0.027623	0.782659	0.608587	0.270821	0.516946
15_63	12/4/21	17	360	377	0.15	26	740	766	0.12	0.135	3918	0.027069	0.781577	0.607584	0.270375	0.499306
15_64	5/10/22	12	570	582	0.12	25	680	705	0.13	0.125	4075	0.023424	0.773896	0.600561	0.26725	0.467727
15_65	6/8/22	7.2	26	26	0.11	5.6	160	160	0.1	0.105	4104	0.022806	0.772486	0.599288	0.266683	0.393726
15_66	8/2/22	11	410	421	0.13	8.1	190	190	0.12	0.125	4159	0.021679	0.769818	0.596891	0.265617	0.470603
15_67	10/4/22	11	280	291	0.1	9.4	310	310	0.1	0.1	4222	0.020457	0.766774	0.594177	0.264409	0.378203
15_68	11/4/22	20	900	920	0.13	17	620	637	0.12	0.125	4253	0.019881	0.76528	0.592852	0.263819	0.473809
15_69	12/5/22	8.6	260	268.6	0.11	22	690	712	0.11	0.11	4284	0.019321	0.763789	0.591535	0.263233	0.417881
15_70	5/10/23	7.9	130	130	0.11	9.2	440	449.2	0.1	0.105	4440	0.016735	0.756331	0.585012	0.26033	0.403334
15_71	6/19/23	6.5	540	540	0.12	9.6	97	97	0.11	0.115	4480	0.016129	0.754431	0.583366	0.259598	0.442993
15_72	8/28/23	9.3	33	33	0.11	27	1100	1127	0.11	0.11	4550	0.015122	0.751116	0.580512	0.258328	0.425816
15_73	10/17/23	11	550	561	0.12	12	750	762	0.12	0.12	4600	0.014441	0.748758	0.578492	0.257429	0.466148
15_74	11/24/23	15	720	735	0.13	8.7	320	320	0.14	0.135	4638	0.013945	0.74697	0.576967	0.25675	0.525803
15_75	12/25/23	10	440	450	0.12	9.1	160	160	0.11	0.115	4669	0.013552	0.745515	0.575729	0.256199	0.448869
15_76	5/1/24	13	980	993	0.11	11	610	621	0.12	0.115	4797	0.012045	0.739537	0.570676	0.253951	0.452843
15_77	6/25/24	12	770	782	0.13	7.5	330	330	0.16	0.145	4852	0.01145	0.736983	0.568533	0.252997	0.573129
15_78	8/16/24	8	390	390	0.09	20	950	970	0.1	0.095	4904	0.010914	0.734576	0.566521	0.252102	0.376832

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamn	Physical De	Observed/P
16_1	11/21/11	320	450	770	0.16					0.16	252	0.792827	0.984274	1.001534	0.160245	0.998468
16_2	1/6/12	850	1100	1950	0.37					0.37	298	0.759932	0.98143	0.989106	0.158257	2.33797
16_3	3/4/12	530	840	1370	0.2					0.2	356	0.720393	0.977856	0.974049	0.155848	1.283304
16_4	6/12/12	15	1100	1700	0.21					0.21	456	0.656994	0.971725	0.949597	0.151935	1.382166
16_5	7/3/12	6.4	170	270	0.16					0.16	477	0.644406	0.970442	0.944692	0.151151	1.058546
16_6	7/24/12	9	550	880	0.18					0.18	498	0.632059	0.969161	0.939863	0.150378	1.196982
16_7	8/21/12	11	520	830	0.16	7.6	320	530	0.11	0.135	526	0.615964	0.967456	0.933542	0.149367	0.903816
16_8	11/6/12	11	660	1100	0.18	6.1	110	190	0.13	0.155	603	0.573784	0.962782	0.916818	0.146691	1.056644
16_9	12/20/12	12	730	1400	0.16	5.5	35	49	0.11	0.135	647	0.550992	0.960121	0.907677	0.145228	0.929571
16_10	5/14/13	280	540	820	0.14	16	41	57	0.088	0.114	792	0.482095	0.951404	0.879531	0.140725	0.810091
16_11	6/25/13	140	300	440	0.156	27	51	78	0.09	0.123	834	0.463798	0.948894	0.871907	0.139505	0.881689
16_12	8/2/13	87	180	267	0.13	130	280	410	0.11	0.12	872	0.447843	0.946628	0.865199	0.138432	0.866852
16_13	10/28/13	52	150	202	0.11	91	220	311	0.088	0.099	959	0.41335	0.941462	0.850493	0.136079	0.727519
16_14	12/5/13	410	930	1340	0.14	94	200	294	0.11	0.125	997	0.399131	0.939215	0.84434	0.135094	0.925279
16_15	2/6/14	400	1000	1400	0.124	21	59	80	0.118	0.121	1060	0.376626	0.9355	0.834482	0.133517	0.906251
16_16	5/12/14	300	830	1130	0.11	150	460	610	0.11	0.11	1155	0.345066	0.929927	0.820377	0.13126	0.838029
16_17	6/4/14	120	330	450	0.12	220	560	780	0.12	0.12	1178	0.337831	0.928582	0.817093	0.130735	0.917889
16_18	8/12/14	190	560	750	0.13	21	56	77	0.1	0.115	1247	0.317025	0.924561	0.807528	0.129204	0.890062
16_19	10/20/14	59	190	249	0.11	140	430	570	0.12	0.115	1316	0.297501	0.920557	0.798376	0.12774	0.900265
16_20	12/9/14	79	280	359	0.11	83	340	423	0.1	0.105	1366	0.284108	0.917666	0.791988	0.126718	0.828611
16_21	2/11/15	160	550	710	0.1	36	140	176	0.07	0.085	1430	0.267842	0.91398	0.784094	0.125455	0.677534
16_22	5/22/15	9.9	43	52.9	0.1	81	310	391	0.11	0.105	1530	0.24427	0.908249	0.772357	0.123577	0.849672
16_23	6/24/15	200	840	1040	0.08	30	110	140	0.09	0.085	1563	0.236956	0.906365	0.768635	0.122982	0.691161
16_24	8/26/15	130	530	660	0.08	42	170	212	0.08	0.08	1626	0.223595	0.902781	0.761724	0.121876	0.656406
16_25	10/4/15	33	170	203	0.08	46	220	266	0.08	0.08	1665	0.215704	0.900569	0.75757	0.121211	0.660005
16_26	10/4/15	78	330	408	0.09	130	550	680	0.09	0.09	1665	0.215704	0.900569	0.75757	0.121211	0.742505
16_27	10/4/15	130	600	730	0.1	95	440	535	0.11	0.105	1665	0.215704	0.900569	0.75757	0.121211	0.866256
16_28	12/13/15	110	530	640	0.08	200	1000	1200	0.09	0.085	1735	0.202233	0.896613	0.750341	0.120055	0.708012
16_29	2/14/16	28	150	178	0.06	50	290	340	0.07	0.065	1798	0.19083	0.893067	0.74407	0.119051	0.545984
16_30	5/5/16	28	110	138	0.06	58	360	418	0.08	0.07	1879	0.177109	0.888528	0.736316	0.117811	0.594174
16_31	6/12/16	28	170	198	0.07	33	160	193	0.07	0.07	1917	0.171016	0.886407	0.732792	0.117247	0.597032
16_32	8/28/16	130	770	900	0.08	21	180	201	0.09	0.085	1994	0.159305	0.882124	0.72586	0.116138	0.73189
16_33	10/10/16	130	770	900	0.07	12	62	74	0.08	0.075	2037	0.153118	0.879741	0.722106	0.115537	0.649143
16_34	12/4/16	69	360	429	0.07	140	830	970	0.1	0.085	2092	0.145553	0.876703	0.71742	0.114787	0.7405
16_35	2/5/17	8.5	65	73.5	0.07	93	570	663	0.09	0.08	2155	0.137346	0.873236	0.712206	0.113953	0.702045
16_36	5/5/17	16	140	156	0.07	90	620	710	0.1	0.085	2244	0.126535	0.868361	0.7051	0.112816	0.753439
16_37	6/4/17	28	170	198	0.07	90	620	710	0.08	0.075	2274	0.123085	0.866724	0.702771	0.112443	0.667003
16_38	8/6/17	5.1	36	41.1	0.06	8.2	50	58.2	0.08	0.07	2337	0.116145	0.863296	0.697981	0.111677	0.626808
16_39	10/8/17	29	250	279	0.06	48	380	428	0.09	0.075	2400	0.109596	0.859882	0.693323	0.110932	0.676091
16_40	12/3/17	38	250	288	0.07	36	340	376	0.1	0.085	2456	0.104086	0.856859	0.689289	0.110286	0.770722
16_41	2/11/18	9.6	60	69.6	0.06	89	890	979	0.09	0.075	2526	0.097585	0.853094	0.684378	0.1095	0.684929
16_42	5/5/18	10	96	106	0.05	7	24	24	0.1	0.075	2609	0.090402	0.848652	0.678735	0.108598	0.690623
16_43	6/3/18	13	100	113	0.05	6.1	29	29	0.07	0.06	2638	0.088019	0.847105	0.676807	0.108289	0.554073
16_44	8/12/18	7.8	80	80	0.06	6.5	35	35	0.07	0.065	2708	0.082522	0.843384	0.672241	0.107559	0.604322
16_45	10/18/18	8.1	74	82.1	0.08	8.6	60	60	0.09	0.085	2775	0.077583	0.839837	0.667983	0.106877	0.795304
16_46	11/11/18	3.8	74	74	0.07	8.2	58	58	0.1	0.085	2799	0.075886	0.83857	0.666484	0.106637	0.797094
16_47	12/2/18	7.4	90	97.4	0.06	6.8	47	47	0.08	0.07	2820	0.074432	0.837463	0.665182	0.106429	0.657715
16_48	5/3/19	8.2	77	77	0.06	6.5	49	49	0.08	0.07	2972	0.064706	0.829494	0.656044	0.104967	0.666876
16_49	6/2/19	7.3	75	82.3	0.06	5.8	84	84	0.08	0.07	3002	0.062943	0.827931	0.654295	0.104687	0.668658
16_50	8/15/19	8.3	74	74	0.05	8.5	25	25	0.11	0.08	3076	0.058795	0.824086	0.650056	0.104009	0.769165
16_51	10/5/19	5.6	32	32	0.06	6	20	20	0.1	0.08	3127	0.056096	0.821447	0.647192	0.103551	0.772569
16_52	11/13/19	5.1	54	54	0.06	6.4	88	94.4	0.08	0.07	3166	0.054117	0.819434	0.645032	0.103205	0.678261
16_53	12/16/19	6.4	66	66	0.06	6.8	96	102.8	0.1	0.08	3199	0.052496	0.817735	0.643225	0.102916	0.777333
16_54	8/22/20	7.4	100	100	0.04	6.6	34	34	0.04	0.04	3449	0.041697	0.804977	0.63008	0.100813	0.396775
16_55	10/3/20	5.4	80	80	0.05	5.2	49	49	0.08	0.065	3491	0.040115	0.802853	0.627959	0.100473	0.646937
16_56	11/11/20	8.1	88	88	0.05	6.2	34	34	0.07	0.06	3530	0.038699	0.800886	0.62601	0.100162	0.599032
16_57	12/3/20	5.3	47	47	0.06	7.9	43	43	0.08	0.07	3552	0.037923	0.799778	0.624919	0.099987	0.700091
16_58	5/17/21	5.8	29	29	0.05	7.2	25	25	0.02	0.035	3717	0.032575	0.791521	0.616923	0.098708	0.354582
16_59	6/3/21	9.4	55	55	0.06	5.5	6.4	6.4	0.05	0.055	3734	0.032069	0.790675	0.616117	0.098579	0.55793
16_60	8/6/21	7.4	170	170	0.05	5.9	21	21	0.08	0.065	3798	0.030233	0.787498	0.61311	0.098098	0.662606
16_61	10/19/21	5.8	55	55	0.05	7	53	53	0.08	0.065	3872	0.02824	0.783841	0.609685	0.09755	0.666327
16_62	11/12/21	9.2	34	34	0.04	7.8	23	23	0.08	0.06	3896	0.027623	0.782659	0.608587	0.097374	0.616182
16_63	12/4/21	8.3	62	62	0.05	8.6	81	81	0.08	0.065	3918	0.027069	0.781577	0.607584	0.097213	0.668631
16_64	5/10/22	5.9	63	63	0.05	8	60	60	0.07	0.06	4075	0.023424	0.773896	0.600561	0.09609	0.624416
16_65	6/6/22	8.4	84	84	0.04	7.6	34	34	0.05	0.045	4102	0.022848	0.772583	0.599375	0.0959	0.469239
16_66	8/2/22	9.9	110	110	0.05	7.9	43	43	0.06	0.055	4159	0.021679	0.769818	0.596891	0.095503	0.5759
16_67	10/4/22	6.3	98	98	0.04	8.5	14	14	0.05	0.045	4222	0.020457	0.766774	0.594177	0.095068	0.473344
16_68	11/4/22	8.5	22	22	0.04	7.5	8.4		0.07	0.055	4253	0.019881	0.76528	0.592852	0.094856	0.579824
16_69	12/6/22	9.1	47	47	0.06	6.2	15	15	0.06	0.06	4285	0.019303	0.763741	0.591493	0.094639	0.633989
16_70	5/29/23	9.5	56	56	0.06	8	37	37	0.06	0.06	4459	0.016444	0.755428	0.584229	0.093477	0.641872
16_71	6/26/23	7.8	42	42	0.05	5.8	8.1		0.06	0.055	4487	0.016026	0.754098	0.58308	0.093293	0.589542
16_72	8/28/23	8.9	55	55	0.05	8.7	14	14	0.06	0.055	4550	0.015122	0.751116	0.580512	0.092882	0.59215
16_73	10/17/23	8.1	71	71	0.04	6.3	41	41	0.08	0.06	4600	0.014441	0.748758	0.578492	0.092559	0.648238
16_74	11/24/23	10	44	44	0.05	6.1	26	26	0.07	0.06	4638	0.013945	0.74697	0.576967	0.092315	0.649951
16_75	12/25/23	9.7	52	52	0.05	9.4	15	15	0.07	0.06	4669	0.013552	0.745515	0.575729	0.092117	0.651348
16_76	5/1/24	8.5	53	53	0.06	7.2	20	20	0.07	0.065	4797	0.012045	0.739537	0.570676	0.091308	0.711875
16_77	6/25/24	6.8	270	270	0.04	6.2	7.6	7.6	0.05	0.045	4852	0.01145	0.736983	0.568533	0.090965	0.494694
16_78	8/15/24	7.6	130	130	0.05	5.5	16	16	0.06	0.055	4903	0.010924	0.734622	0.56656	0.09065	0.606732

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/Pl
17_1	6/13/12	24	3400	5500	1.04	14	1300	2000	0.93	0.985	457	0.656389	0.971664	0.949361	0.935121	1.05334
17_2	7/5/12	38	7300	12000	1.61	13	930	1500	0.82	1.215	479	0.64322	0.97032	0.944229	0.930065	1.30636
17_3	8/23/12	20	2200	3600	0.92	14	1100	2000	0.85	0.885	528	0.61483	0.967334	0.933095	0.919099	0.9629
17_4	11/6/12	15	1200	2100	0.84	19	2200	3800	0.84	0.84	603	0.573784	0.962782	0.916818	0.903066	0.930165
17_5	12/17/12	29	3700	6800	0.51	15	1100	2100	0.52	0.515	644	0.552516	0.960302	0.908291	0.894667	0.575633
17_6	5/13/13	5700	12000	17700	1.702	1300	2600	3900	0.756	1.229	791	0.482539	0.951464	0.879715	0.86652	1.418318
17_7	6/26/13	6800	14000	20800	1.234	1800	3800	5600	0.68	0.957	835	0.463371	0.948834	0.871728	0.858652	1.114538
17_8	8/7/13	4900	11000	15900	1.368	1400	3100	4500	0.68	1.024	877	0.445785	0.946331	0.86433	0.851365	1.202774
17_9	10/23/13	1500	3500	5000	0.53	1200	2900	4100	0.48	0.505	954	0.415259	0.941758	0.851315	0.838545	0.602234
17_10	12/5/13	2700	6700	9400	1.298	1000	2500	3500	0.674	0.986	997	0.399131	0.939215	0.84434	0.831675	1.185559
17_11	2/6/14	2800	7200	10000	1.326	620	1700	2320	0.666	0.996	1060	0.376626	0.9355	0.834482	0.821964	1.211731
17_12	5/13/14	4700	13000	17700	1.41	710	2200	2910	0.68	1.045	1156	0.344748	0.929868	0.820233	0.80793	1.29343
17_13	6/5/14	3700	10000	13700	1.48	1300	3700	5000	0.64	1.06	1179	0.33752	0.928524	0.816951	0.804697	1.317267
17_14	8/11/14	2700	8600	11300	1.21	1100	3700	4800	0.56	0.885	1246	0.317317	0.924619	0.807664	0.795549	1.11244
17_15	10/8/14	2800	9300	12100	1.13	760	2500	3260	0.56	0.845	1304	0.300808	0.921252	0.799939	0.78794	1.072417
17_16	12/12/14	3600	12000	15600	1.25	610	2100	2710	0.55	0.9	1369	0.283324	0.917493	0.791611	0.779736	1.154236
17_17	2/9/15	2900	10000	12900	1.14	900	3300	4200	0.54	0.84	1428	0.268336	0.914095	0.784336	0.772571	1.087279
17_18	5/17/15	2900	11000	13900	1.13	750	3100	3850	0.5	0.815	1525	0.245398	0.908534	0.772927	0.761333	1.07049
17_19	6/23/15	3300	13000	16300	0.99	440	1900	2340	0.46	0.725	1562	0.237174	0.906422	0.768746	0.757215	0.957456
17_20	9/1/15	2900	12000	14900	0.93	810	3300	4110	0.36	0.645	1632	0.222362	0.90244	0.761079	0.749663	0.860387
17_21	10/8/15	2300	9700	12000	1.04	1700	7400	9100	0.4	0.72	1669	0.214911	0.900342	0.75715	0.745792	0.965416
17_22	10/8/15	2800	11000	13800	0.99	1700	7100	8800	0.4	0.695	1669	0.214911	0.900342	0.75715	0.745792	0.931895
17_23	10/8/15	2300	9500	11800	1.06	770	3400	4170	0.41	0.735	1669	0.214911	0.900342	0.75715	0.745792	0.985529
17_24	12/17/15	2300	10000	12300	0.91	480	2200	2680	0.37	0.64	1739	0.201489	0.896387	0.749936	0.738687	0.866402
17_25	2/16/16	2500	13000	15500	0.81	460	2400	2860	0.35	0.58	1800	0.190479	0.892954	0.743874	0.732716	0.791575
17_26	5/7/16	2100	11000	13100	0.86	480	2600	3080	0.4	0.63	1881	0.176783	0.888416	0.736129	0.725087	0.868862
17_27	6/3/16	2500	12000	14500	0.9	260	1400	1660	0.4	0.65	1908	0.17244	0.886909	0.73362	0.722616	0.89951
17_28	8/25/16	2100	11000	13100	0.91	770	4100	4870	0.37	0.64	1991	0.159746	0.882291	0.726125	0.715233	0.894813
17_29	10/7/16	2000	11000	13000	0.74	440	2600	3040	0.33	0.535	2034	0.153542	0.879907	0.722365	0.71153	0.751901
17_30	12/19/16	1700	10000	11700	0.76	380	2300	2680	0.32	0.54	2107	0.143556	0.875876	0.716164	0.705422	0.7655
17_31	2/18/17	1800	11000	12800	0.76	310	2100	2410	0.34	0.55	2168	0.135711	0.872522	0.711149	0.700482	0.785174
17_32	5/6/17	1300	9200	10500	0.71	240	1700	1940	0.31	0.51	2245	0.126418	0.868307	0.705022	0.694447	0.734398
17_33	6/5/17	1600	12000	13600	0.68	270	2100	2370	0.31	0.495	2275	0.122972	0.86667	0.702694	0.692153	0.715159
17_34	8/3/17	1400	12000	13400	0.62	270	2200	2470	0.29	0.455	2334	0.116467	0.863459	0.698206	0.687733	0.661594
17_35	10/26/17	890	7000	7890	0.5	120	1000	1120	0.26	0.38	2418	0.107794	0.858909	0.692016	0.681636	0.557482
17_36	12/10/17	1400	12000	13400	0.65	280	2600	2880	0.31	0.48	2463	0.103417	0.856481	0.688791	0.678459	0.707485
17_37	2/16/18	1000	9100	10100	0.69	290	2700	2990	0.3	0.495	2531	0.097137	0.852826	0.684033	0.673772	0.73467
17_38	5/17/18	1100	9800	10900	0.62	190	2000	2190	0.25	0.435	2621	0.089408	0.848012	0.677934	0.667765	0.651427
17_39	6/18/18	830	8100	8930	0.64	290	3000	3290	0.27	0.455	2653	0.086811	0.846306	0.675818	0.665681	0.683511
17_40	8/20/18	600	6400	7000	0.64	300	3300	3600	0.31	0.475	2716	0.081916	0.842959	0.671727	0.661651	0.717901
17_41	10/3/18	800	8200	9000	0.72	320	3900	4220	0.33	0.525	2760	0.078662	0.84063	0.668927	0.658894	0.79679
17_42	11/11/18	560	5900	6460	0.7	320	3700	4020	0.3	0.5	2799	0.075886	0.83857	0.666484	0.656486	0.76163
17_43	12/8/18	590	6300	6890	0.73	210	2600	2810	0.33	0.53	2826	0.074022	0.837147	0.664812	0.65484	0.809358
17_44	5/17/19	600	8500	9100	0.68	200	2800	3000	0.32	0.5	2986	0.063877	0.828764	0.655226	0.645397	0.774717
17_45	6/13/19	750	9900	10650	0.76	180	2400	2580	0.33	0.545	3013	0.062308	0.827358	0.653659	0.643854	0.846466
17_46	8/22/19	550	7700	8250	0.72	100	1600	1700	0.31	0.515	3083	0.058417	0.823723	0.64966	0.639915	0.804794
17_47	10/5/19	420	6400	6820	0.74	190	3000	3190	0.31	0.525	3127	0.056096	0.821447	0.647192	0.637484	0.82355
17_48	11/14/19	420	6900	7320	0.51	190	3100	3290	0.28	0.395	3167	0.054067	0.819382	0.644977	0.635302	0.621751
17_49	12/3/19	640	10000	10640	0.47	170	2800	2970	0.27	0.37	3186	0.053129	0.818404	0.643935	0.634276	0.583343
17_50	8/22/20	180	3400	3580	0.32	160	2900	3060	0.18	0.25	3449	0.041697	0.804977	0.63008	0.620629	0.402817
17_51	10/16/20	43	870	913	0.28	190	4100	4290	0.19	0.235	3504	0.039637	0.802197	0.627307	0.617897	0.380322
17_52	11/11/20	42	1100	1142	0.31	150	3300	3450	0.2	0.255	3530	0.038699	0.800886	0.62601	0.61662	0.413545
17_53	12/2/20	39	860	899	0.33	110	2500	2610	0.26	0.295	3551	0.037958	0.799829	0.624969	0.615594	0.479212
17_54	5/18/21	18	570	588	0.15	77	1900	1977	0.11	0.13	3718	0.032545	0.791471	0.616875	0.607622	0.213949
17_55	6/3/21	17	510	527	0.12	20	550	570	0.19	0.155	3734	0.032069	0.790675	0.616117	0.606875	0.255407
17_56	8/5/21	64	1500	1564	0.18	180	5200	5380	0.32	0.25	3797	0.030261	0.787548	0.613156	0.603959	0.413935
17_57	10/17/21	89	2500	2589	0.26	41	1400	1441	0.28	0.27	3870	0.028292	0.78394	0.609777	0.600631	0.449528
17_58	11/12/21	68	2300	2368	0.28	85	2700	2785	0.18	0.23	3896	0.027623	0.782659	0.608587	0.599458	0.38368
17_59	12/4/21	150	4700	4850	0.31	27	1000	1027	0.18	0.245	3918	0.027069	0.781577	0.607584	0.598471	0.409377
17_60	5/10/22	53	1800	1853	0.3	64	2100	2164	0.21	0.255	4075	0.023424	0.773896	0.600561	0.591553	0.431069
17_61	6/8/22	57	2400	2457	0.28	61	2500	2561	0.22	0.25	4104	0.022806	0.772486	0.599288	0.590298	0.423515
17_62	8/2/22	28	1200	1228	0.28	82	2900	2982	0.19	0.235	4159	0.021679	0.769818	0.596891	0.587938	0.399702
17_63	10/4/22	49	1600	1649	0.26	61	2700	2761	0.19	0.225	4222	0.020457	0.766774	0.594177	0.585264	0.384442
17_64	11/4/22	52	2200	2252	0.31	120	4200	4320	0.18	0.245	4253	0.019881	0.76528	0.592852	0.583959	0.41955
17_65	12/6/22	26	1300	1326	0.3	51	2300	2351	0.21	0.255	4285	0.019303	0.763741	0.591493	0.58262	0.437678
17_66	5/10/23	31	1400	1431	0.28	110	5600	5710	0.19	0.235	4440	0.016735	0.756331	0.585012	0.576237	0.407818
17_67	6/27/23	51	2500	2551	0.28	37	1600	1637	0.21	0.245	4488	0.016011	0.754051	0.583039	0.574293	0.426611
17_68	8/28/23	16	830	846	0.27	53	3200	3253	0.19	0.23	4550	0.015122	0.751116	0.580512	0.571804	0.402236
17_69	10/24/23	27	1600	1627	0.33	51	2400	2451	0.19	0.26	4607	0.014349	0.748428	0.57821	0.569537	0.456511
17_70	11/24/23	21	1100	1121	0.29	36	2600	2636	0.19	0.24	4638	0.013945	0.74697	0.576967	0.568312	0.422303
17_71	12/25/23	24	1600	1624	0.35	37	2900	2937	0.18	0.265	4669	0.013552	0.745515	0.575729	0.567093	0.467296
17_72	5/2/24	28	2100	2128	0.29	40	2200	2240	0.18	0.235	4798	0.012033	0.73949	0.570637	0.562078	0.418092
17_73	6/25/24	29	2000	2029	0.29	31	1800	1831	0.16	0.225	4852	0.01145	0.736983	0.568533	0.560005	0.401782
17_74	8/15/24	32	1900	1932	0.27	41	2600	2641	0.17	0.22	4903	0.010924	0.734622	0.56656	0.558062	0.394222

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
18_1	11/21/11					1000	1200	2200	0.45	0.45	252	0.792827	0.984274	1.001534	0.45069	0.998468
18_2	1/6/12					2400	3400	5800	1.28	1.28	298	0.759932	0.98143	0.989106	0.445098	2.875773
18_3	3/4/12					950	1300	2250	0.51	0.51	356	0.720393	0.977856	0.974049	0.438322	1.163529
18_4	6/13/12					14	870	1400	0.59	0.59	457	0.656389	0.971664	0.949361	0.427213	1.381045
18_5	7/5/12					19	1200	2000	0.57	0.57	479	0.64322	0.97032	0.944229	0.424903	1.341483
18_6	8/23/12	12	890	1400	0.42	17	1400	2300	0.63	0.525	528	0.61483	0.967334	0.933095	0.419893	1.250319
18_7	11/6/12	11	680	1200	0.37	15	720	1300	0.58	0.475	603	0.573784	0.962782	0.916818	0.412568	1.151325
18_8	12/17/12	9.4	460	830	0.39	15	960	1700	0.36	0.375	644	0.552516	0.960302	0.908291	0.408731	0.917474
18_9	5/13/13	480	990	1470	0.408	570	1100	1670	0.46	0.434	791	0.482539	0.951464	0.879715	0.395872	1.096314
18_10	6/25/13	410	880	1290	0.384	570	1200	1770	0.414	0.399	834	0.463798	0.948894	0.871907	0.392358	1.016929
18_11	8/7/13	430	950	1380	0.302	740	1700	2440	0.424	0.363	877	0.445785	0.946331	0.86433	0.388948	0.933286
18_12	10/23/13	310	780	1090	0.27	940	2400	3340	0.36	0.315	954	0.415259	0.941758	0.851315	0.383092	0.822258
18_13	12/5/13	460	1100	1560	0.26	630	1500	2130	0.396	0.328	997	0.399131	0.939215	0.84434	0.379953	0.863264
18_14	2/6/14	190	510	700	0.214	400	1100	1500	0.436	0.325	1060	0.376626	0.9355	0.834482	0.375517	0.865474
18_15	5/13/14	83	290	373	0.21	620	1900	2520	0.42	0.315	1156	0.344748	0.929868	0.820233	0.369105	0.853416
18_16	6/5/14	170	490	660	0.23	750	2200	2950	0.39	0.31	1179	0.33752	0.928524	0.816951	0.367628	0.843244
18_17	8/13/14	130	360	490	0.19	520	1800	2320	0.35	0.27	1248	0.316733	0.924503	0.807392	0.363327	0.743133
18_18	10/8/14	150	460	610	0.19	830	2600	3430	0.31	0.25	1304	0.300808	0.921252	0.799939	0.359973	0.694497
18_19	12/8/14	190	710	900	0.18	740	2600	3340	0.32	0.25	1365	0.28437	0.917724	0.792113	0.356451	0.701359
18_20	2/10/15	270	940	1210	0.17	690	2500	3190	0.31	0.24	1429	0.268089	0.914037	0.784215	0.352897	0.680086
18_21	5/17/15	170	730	900	0.19	460	1700	2160	0.31	0.25	1525	0.245398	0.908534	0.772927	0.347817	0.718768
18_22	6/20/15	68	230	298	0.16	610	2200	2810	0.29	0.225	1559	0.23783	0.906594	0.769082	0.346087	0.650126
18_23	9/1/15	71	280	351	0.13	600	2500	3100	0.23	0.18	1632	0.222362	0.90244	0.761079	0.342486	0.52557
18_24	10/8/15	180	790	970	0.14	720	3200	3920	0.25	0.195	1669	0.214911	0.900342	0.75715	0.340717	0.572322
18_25	10/8/15	110	490	600	0.13	580	2500	3080	0.26	0.195	1669	0.214911	0.900342	0.75715	0.340717	0.572322
18_26	10/8/15	80	360	440	0.14	730	3100	3830	0.24	0.19	1669	0.214911	0.900342	0.75715	0.340717	0.557647
18_27	12/17/15	250	1200	1450	0.17	530	2600	3130	0.21	0.19	1739	0.201489	0.896387	0.749936	0.337471	0.563011
18_28	2/13/16	290	1500	1790	0.15	400	1800	2200	0.19	0.17	1797	0.191006	0.893123	0.744168	0.334875	0.507651
18_29	5/3/16	190	940	1130	0.13	370	2100	2470	0.24	0.185	1877	0.177435	0.88864	0.736503	0.331427	0.558193
18_30	6/1/16	110	610	720	0.16	430	2200	2630	0.21	0.185	1906	0.172758	0.88702	0.733805	0.330212	0.560246
18_31	8/25/16	390	2500	2890	0.15	410	2500	2910	0.21	0.18	1991	0.159746	0.882291	0.726125	0.326756	0.550869
18_32	10/7/16	150	860	1010	0.12	460	2700	3160	0.2	0.16	2034	0.153542	0.879907	0.722365	0.325064	0.49221
18_33	12/21/16	72	410	482	0.14	250	1600	1850	0.17	0.155	2109	0.143292	0.875766	0.715997	0.322199	0.481069
18_34	2/18/17	140	1100	1240	0.14	150	1100	1250	0.18	0.16	2168	0.135711	0.872522	0.711149	0.320017	0.499973
18_35	5/6/17	120	800	920	0.12	100	820	920	0.17	0.145	2245	0.126418	0.868307	0.705022	0.31726	0.457038
18_36	6/10/17	74	580	654	0.12	210	1500	1710	0.16	0.14	2280	0.122407	0.866397	0.702309	0.316039	0.442983
18_37	8/3/17	88	710	798	0.09	250	2000	2250	0.12	0.105	2334	0.116467	0.863459	0.698206	0.314193	0.33419
18_38	10/24/17	76	760	836	0.09	110	1000	1110	0.13	0.11	2416	0.107993	0.859017	0.692161	0.311472	0.353161
18_39	12/10/17	85	1100	1185	0.1	170	1500	1670	0.16	0.13	2463	0.103417	0.856481	0.688791	0.309956	0.419414
18_40	2/16/18	58	580	638	0.16	260	2300	2560	0.1	0.13	2531	0.097137	0.852826	0.684033	0.307815	0.422332
18_41	5/19/18	62	630	692	0.12	210	2000	2210	0.17	0.145	2623	0.089244	0.847905	0.677801	0.305011	0.475393
18_42	6/17/18	110	1200	1310	0.08	160	1800	1960	0.12	0.1	2652	0.086891	0.84636	0.675884	0.304148	0.328788
18_43	8/20/18	59	700	759	0.11	220	2300	2520	0.16	0.135	2716	0.081916	0.842959	0.671727	0.302277	0.44661
18_44	10/2/18	43	510	553	0.1	180	2000	2180	0.2	0.15	2759	0.078735	0.840683	0.668991	0.301046	0.498263
18_45	11/11/18	49	480	529	0.11	130	1400	1530	0.17	0.14	2799	0.075886	0.83857	0.666484	0.299918	0.466795
18_46	12/9/18	44	490	534	0.1	130	1700	1830	0.17	0.135	2827	0.073954	0.837095	0.664751	0.299138	0.451297
18_47	5/17/19	140	1800	1940	0.11	39	600	639	0.16	0.135	2986	0.063877	0.828764	0.655226	0.294851	0.457858
18_48	6/13/19	41	450	491	0.12	140	2000	2140	0.17	0.145	3013	0.062308	0.827358	0.653659	0.294146	0.492952
18_49	8/24/19	32	480	512	0.09	150	2100	2250	0.14	0.115	3085	0.058309	0.82362	0.649547	0.292296	0.393437
18_50	10/15/19	4.4	51	51	0.09	68	1200	1268	0.16	0.125	3137	0.055582	0.82093	0.646635	0.290986	0.429574
18_51	11/13/19	20	300	320	0.08	120	1900	2020	0.16	0.12	3166	0.054117	0.819434	0.645032	0.290264	0.413416
18_52	12/18/19	42	690	732	0.1	110	1600	1710	0.16	0.13	3201	0.0524	0.817632	0.643116	0.289402	0.449202
18_53	8/19/20	25	420	445	0.09	85	1600	1685	0.09	0.09	3446	0.041813	0.805128	0.630232	0.283605	0.317343
18_54	10/21/20	42	880	922	0.08	87	1700	1787	0.08	0.08	3509	0.039455	0.801944	0.627057	0.282176	0.283511
18_55	11/26/20	16	370	386	0.1	39	810	849	0.13	0.115	3545	0.038168	0.80013	0.625265	0.281369	0.408715
18_56	12/18/20	23	540	563	0.1	60	1300	1360	0.15	0.125	3567	0.037402	0.799024	0.624179	0.28088	0.445029
18_57	5/18/21	14	640	654	0.08	85	2100	2185	0.12	0.1	3718	0.032545	0.791471	0.616875	0.277594	0.360238
18_58	6/3/21	43	1200	1243	0.12	21	600	621	0.07	0.095	3734	0.032069	0.790675	0.616117	0.277253	0.342648
18_59	8/5/21	21	540	561	0.1	79	1700	1779	0.09	0.095	3797	0.030261	0.787548	0.613156	0.27592	0.344302
18_60	10/17/21	21	550	571	0.1	54	1500	1554	0.15	0.125	3870	0.028292	0.78394	0.609777	0.2744	0.45554
18_61	11/12/21	26	540	566	0.1	56	1600	1656	0.11	0.105	3896	0.027623	0.782659	0.608587	0.273864	0.383402
18_62	12/4/21	19	620	639	0.1	29	1100	1129	0.15	0.125	3918	0.027069	0.781577	0.607584	0.273413	0.457184
18_63	5/10/22	4.5	76	76	0.1	56	1800	1856	0.11	0.105	4075	0.023424	0.773896	0.600561	0.270252	0.388526
18_64	6/8/22	18	760	778	0.09	19	970	989	0.1	0.095	4104	0.022806	0.772486	0.599288	0.269679	0.35227
18_65	8/2/22	16	680	696	0.1	44	1800	1844	0.11	0.105	4159	0.021679	0.769818	0.596891	0.268601	0.390914
18_66	10/4/22	9.9	440	440	0.07	21	1000	1021	0.11	0.09	4222	0.020457	0.766774	0.594177	0.267379	0.3366
18_67	11/4/22	18	810	828	0.1	35	1300	1335	0.1	0.1	4253	0.019881	0.76528	0.592852	0.266783	0.374836
18_68	12/6/22	24	560	584	0.09	27	1100	1127	0.08	0.085	4285	0.019303	0.763741	0.591493	0.266172	0.319343
18_69	5/29/23	13	630	643	0.09	25	1800	1825	0.09	0.09	4459	0.016444	0.755428	0.584229	0.262903	0.342331
18_70	6/27/23	13	590	603	0.1	53	2400	2453	0.1	0.1	4488	0.016011	0.754051	0.583039	0.262367	0.381145
18_71	8/28/23	8.1	200	200	0.08	34	1700	1734	0.09	0.085	4550	0.015122	0.751116	0.580512	0.26123	0.325383
18_72	10/11/23	12	380	392	0.08	35	1900	1935	0.11	0.095	4594	0.014521	0.74904	0.578733	0.26043	0.364781
18_73	11/24/23	11	490	501	0.12	25	1400	1425	0.13	0.125	4638	0.013945	0.74697	0.576967	0.259635	0.481445
18_74	12/25/23	9.2	350	350	0.09	26	2300	2326	0.1	0.095	4669	0.013552	0.745515	0.575729	0.259078	0.366685
18_75	5/1/24	10	430	440	0.09	24	1700	1724	0.11	0.1	4797	0.012045	0.739537	0.570676	0.256804	0.389401
18_76	6/25/24	7.8	540	540	0.08	25	1500	1525	0.11	0.095	4852	0.01145	0.736983	0.568533	0.25584	0.371326
18_77	8/15/24	8.3	490	498.3	0.08	28	1800	1828	0.09	0.085	4903	0.010924	0.734622	0.56656	0.254952	0.333396

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
19_1	11/21/11	44	54	98	0.08					0.08	252	0.792827	0.984274	1.001534	0.080123	0.998468
19_2	1/6/12	59	77	136	0.28					0.28	298	0.759932	0.98143	0.989106	0.079128	3.538549
19_3	3/4/12	55	85	140	0.11					0.11	356	0.720393	0.977856	0.974049	0.077924	1.411634
19_4	6/12/12	4.2	6.3	15	0.1					0.1	456	0.656994	0.971725	0.949597	0.075968	1.316348
19_5	7/4/12	4.9	12	22	0.1					0.1	478	0.643812	0.970381	0.94446	0.075557	1.323507
19_6	7/25/12	3.8	21	36	0.12					0.12	499	0.631477	0.9691	0.939635	0.075171	1.596364
19_7	8/22/12	3.1	23	30	0.12					0.12	527	0.615397	0.967395	0.933318	0.074665	1.607169
19_8	11/6/12	4.4	14	24	0.1	3.8	41	65	0.13	0.115	603	0.573784	0.962782	0.916818	0.073345	1.567923
19_9	12/17/12	3.7	8.9	14	0.11	3.6	6.1	12	0.11	0.11	644	0.552516	0.960302	0.908291	0.072663	1.513832
19_10	5/13/13	12	22	34	0.076	230	440	670	0.208	0.142	791	0.482539	0.951464	0.879715	0.070377	2.017698
19_11	6/25/13	11	36	47	0.076	15	20	35	0.106	0.091	834	0.463798	0.948894	0.871907	0.069753	1.304612
19_12	8/7/13	13	27	40	0.08	390	850	1240	0.14	0.11	877	0.445785	0.946331	0.86433	0.069146	1.590828
19_13	10/28/13	10	26	36	0.06	30	63	93	0.08	0.07	959	0.41335	0.941462	0.850493	0.068039	1.028815
19_14	12/5/13	14	30	44	0.07	89	230	319	0.09	0.08	997	0.399131	0.939215	0.84434	0.067547	1.184357
19_15	2/6/14	8.2	23	23	0.054	120	320	440	0.128	0.091	1060	0.376626	0.9355	0.834482	0.066759	1.363122
19_16	5/13/14	12	42	54	0.06	59	190	249	0.1	0.08	1156	0.344748	0.929868	0.820233	0.065619	1.219186
19_17	6/5/14	7.3	23	30.3	0.06	88	200	288	0.08	0.07	1179	0.33752	0.928524	0.816951	0.065356	1.071056
19_18	8/13/14	7	22	29	0.05	24	83	107	0.07	0.06	1248	0.316733	0.924503	0.807392	0.064591	0.928916
19_19	10/8/14	8.5	17	25.5	0.05	51	150	201	0.08	0.065	1304	0.300808	0.921252	0.799939	0.063995	1.015703
19_20	12/8/14	5.6	19	19	0.06	48	130	178	0.07	0.065	1365	0.28437	0.917724	0.792113	0.063369	1.025737
19_21	2/10/15	6.2	21	27.2	0.05	110	360	470	0.09	0.07	1429	0.268089	0.914037	0.784215	0.062737	1.115766
19_22	5/17/15	21	73	94	0.05	5.3	23	28.3	0.06	0.055	1525	0.245398	0.908534	0.772927	0.061834	0.889476
19_23	6/23/15	6.1	19	25.1	0.05	8.9	33	41.9	0.07	0.06	1562	0.237174	0.906422	0.768746	0.0615	0.975614
19_24	8/31/15	7.1	19	19	0.07	11	55	66	0.06	0.065	1631	0.222567	0.902497	0.761187	0.060895	1.067413
19_25	10/4/15	4.3	15	15	0.05	11	43	54	0.07	0.06	1665	0.215704	0.900569	0.75757	0.060606	0.990007
19_26	10/4/15	4.2	14	14	0.05	24	100	124	0.06	0.055	1665	0.215704	0.900569	0.75757	0.060606	0.907506
19_27	10/4/15	4.4	14	14	0.06	8.5	33	41.5	0.05	0.055	1665	0.215704	0.900569	0.75757	0.060606	0.907506
19_28	12/13/15	5	21	26	0.06	30	130	160	0.08	0.07	1735	0.202233	0.896613	0.750341	0.060027	1.166137
19_29	2/7/16	3.8	9.5	9.5	0.05	11	73	84	0.07	0.06	1791	0.192065	0.89346	0.744756	0.05958	1.007041
19_30	5/5/16	3.4	17	17	0.05	7.4	51	58.4	0.06	0.055	1879	0.177109	0.888528	0.736316	0.058905	0.933702
19_31	6/12/16	4.3	21	21	0.06	10	42	52	0.06	0.06	1917	0.171016	0.886407	0.732792	0.058623	1.023483
19_32	8/28/16	4.2	8.3	8.3	0.06	3.8	15	15	0.06	0.06	1994	0.159305	0.882124	0.72586	0.058069	1.033257
19_33	10/16/16	4.3	18	18	0.05	5.9	34	34	0.06	0.055	2043	0.152274	0.879409	0.721589	0.057727	0.952759
19_34	12/4/16	4.6	13	13	0.06	5.2	23	23	0.06	0.06	2092	0.145553	0.876703	0.71742	0.057394	1.045412
19_35	2/5/17	5.2	11	11	0.06	5.4	16	16	0.06	0.06	2155	0.137346	0.873236	0.712206	0.056976	1.053067
19_36	5/3/17	3.7	11	11	0.06	4.6	30	34.6	0.06	0.06	2242	0.126768	0.86847	0.705257	0.056421	1.063443
19_37	6/4/17	4.2	6.6	6.6	0.06	4.3	29	29	0.06	0.06	2274	0.123085	0.866724	0.702771	0.056222	1.067204
19_38	8/6/17	4.1	6.1	6.1	0.06	13	94	107	0.07	0.065	2337	0.116145	0.863296	0.697981	0.055838	1.164072
19_39	10/8/17	8.1	12	12	0.05	12	83	95	0.05	0.05	2400	0.109596	0.859882	0.693323	0.055466	0.901455
19_40	12/3/17	4.7	7.4	7.4	0.06	4.9	31	31	0.05	0.055	2456	0.104086	0.856859	0.689289	0.055143	0.997405
19_41	2/11/18	4.1	4.7	4.7	0.05	5.4	52	52	0.05	0.05	2526	0.097585	0.853094	0.684378	0.05475	0.913238
19_42	5/5/18	3.8	5.5	5.5	0.05	7.2	39	39	0.04	0.045	2609	0.090402	0.848652	0.678735	0.054299	0.828748
19_43	6/3/18	4.7	7.7	7.7	0.05	7.4	46	46	0.06	0.055	2638	0.088019	0.847105	0.676807	0.054145	1.0158
19_44	8/12/18	4.7	7.5	7.5	0.05	5.5	12	12	0.05	0.05	2708	0.082522	0.843384	0.672241	0.053779	0.929726
19_45	10/7/18	4.4	12	12	0.07	4.9	13	13	0.05	0.06	2764	0.078373	0.840418	0.668675	0.053494	1.121621
19_46	11/11/18	6	7.6	7.6	0.07	8	14	14	0.06	0.065	2799	0.075886	0.83857	0.666484	0.053319	1.219085
19_47	12/2/18	4.7	13	13	0.06	4.7	27	27	0.06	0.06	2820	0.074432	0.837463	0.665182	0.053215	1.127511
19_48	5/3/19	5.1	12	12	0.06	4.2	11	11	0.06	0.06	2972	0.064706	0.829494	0.656044	0.052483	1.143217
19_49	6/9/19	3.5	20	20	0.07	5	64	69	0.07	0.07	3009	0.062538	0.827566	0.65389	0.052311	1.338146
19_50	8/27/19	5.7	17	17	0.06	5.3	17	17	0.06	0.06	3088	0.058148	0.823464	0.649378	0.05195	1.154952
19_51	10/5/19	3.7	38	38	0.06	4.7	12	12	0.05	0.055	3127	0.056096	0.821447	0.647192	0.051775	1.062282
19_52	11/14/19	4.4	21	21	0.06	4.3	13	13	0.07	0.065	3167	0.054067	0.819382	0.644977	0.051598	1.259735
19_53	12/16/19	4.5	12	12	0.06	4.2	12	12	0.05	0.055	3199	0.052496	0.817735	0.643225	0.051458	1.068833
19_54	8/6/20	5.2	9.1	9.1	0.06	7.6	12	12	0.06	0.06	3433	0.042316	0.805787	0.630894	0.050472	1.188789
19_55	10/3/20	5.7	17	17	0.06	5.1	14	14	0.04	0.05	3491	0.040115	0.802853	0.627959	0.050237	0.995288
19_56	11/20/20	5	8	8	0.07	6.7	11	11	0.05	0.06	3539	0.038379	0.800432	0.625563	0.050045	1.19892
19_57	12/7/20	4.8	6	6	0.06	5	12	12	0.05	0.055	3556	0.037783	0.799577	0.624721	0.049978	1.100491
19_58	5/17/21	5.6	7.3	7.3	0.04	9	14	14	0.04	0.04	3717	0.032575	0.791521	0.616923	0.049354	0.810474
19_59	6/3/21	7.5	7	7	0.05	6.3	10	10	0.04	0.045	3734	0.032069	0.790675	0.616117	0.049289	0.912976
19_60	8/5/21	7.5	9.3		0.07	7.8	7.6	7.6	0.05	0.06	3797	0.030261	0.787548	0.613156	0.049052	1.223179
19_61	10/17/21	5.6	7.8	7.8	0.06	7.4	13	13	0.05	0.055	3870	0.028292	0.78394	0.609777	0.048782	1.127461
19_62	11/12/21	6.2	8.2		0.06	7.3	8.1		0.04	0.05	3896	0.027623	0.782659	0.608587	0.048687	1.02697
19_63	12/4/21	7	9	9	0.06	6.7	8.8		0.05	0.055	3918	0.027069	0.781577	0.607584	0.048607	1.13153
19_64	5/10/22	2.5	13	13	0.06	2.7	12	12	0.05	0.055	4075	0.023424	0.773896	0.600561	0.048045	1.144763
19_65	6/8/22	6.9	13	13	0.03	8.8	16	16	0.03	0.03	4104	0.022806	0.772486	0.599288	0.047943	0.625743
19_66	8/2/22	8.2	10	10	0.06	8	8.7		0.05	0.055	4159	0.021679	0.769818	0.596891	0.047751	1.151801
19_67	10/4/22	7.6	18	18	0.04	7.2	9.8	9.8	0.04	0.04	4222	0.020457	0.766774	0.594177	0.047534	0.841501
19_68	11/4/22	7.8	10	10	0.05	5.5	12	12	0.03	0.04	4253	0.019881	0.76528	0.592852	0.047428	0.843381
19_69	12/6/22	5.9	6.7	6.7	0.06	7.7	17	17	0.04	0.05	4285	0.019303	0.763741	0.591493	0.047319	1.056649
19_70	5/10/23	8.1	20	20	0.05	8.8	11	11	0.05	0.05	4440	0.016735	0.756331	0.585012	0.046801	1.068354
19_71	6/26/23	8.2	7.8	7.8	0.05	5.7	9.9	9.9	0.04	0.045	4487	0.016026	0.754098	0.58308	0.046646	0.964705
19_72	8/29/23	4.7	7.1	7.1	0.04	7.7	9.2	9.2	0.04	0.04	4551	0.015108	0.751069	0.580471	0.046438	0.861369
19_73	10/17/23	3.5	7.3	7.3	0.05	6.2	8	8	0.04	0.045	4600	0.014441	0.748758	0.578492	0.046279	0.972356
19_74	11/24/23	7.4	30	30	0.05	6	11	11	0.05	0.05	4638	0.013945	0.74697	0.576967	0.046157	1.083252
19_75	12/25/23	9.2	26	26	0.05	6.4	27	27	0.05	0.05	4669	0.013552	0.745515	0.575729	0.046058	1.085581
19_76	5/1/24	7.2	58	58	0.05	6.7	8.8		0.05	0.05	4797	0.012045	0.739537	0.570676	0.045654	1.095192
19_77	6/25/24	8.8	16	16	0.05	5.8	9.1	9.1	0.05	0.05	4852	0.01145	0.736983	0.568533	0.045483	1.09932
19_78	8/15/24	7	91	91	0.05	5.9	12	12	0.05	0.05	4903	0.010924	0.734622	0.56656	0.045325	1.103149

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
20_1	11/21/11	49000	65000	114000	10.64					10.64	252	0.792827	0.984274	1.001534	10.65832	0.998468
20_2	1/6/12	14000	18000	32000	11.63					11.63	298	0.759932	0.98143	0.989106	10.52409	1.105084
20_3	3/4/12	22000	33000	55000	9.34					9.34	356	0.720393	0.977856	0.974049	10.36388	0.901207
20_4	6/14/12	98	44000	69000	9.4					9.4	458	0.655784	0.971603	0.949126	10.0987	0.930812
20_5	7/3/12	59	24000	39000	7.902					7.902	477	0.644406	0.970442	0.944692	10.05152	0.78615
20_6	7/26/12	63	25000	42000	7.84					7.84	500	0.630896	0.969039	0.939407	9.995295	0.784369
20_7	8/28/12	72	31000	51000	10.4					10.4	533	0.612005	0.96703	0.931982	9.916287	1.04878
20_8	9/19/12	77	28000	48000	8.26					8.26	555	0.599726	0.965693	0.927131	9.864678	0.837331
20_9	10/23/12	70	28000	50000	8.97	65	24000	42000	8.31	8.64	589	0.581232	0.96363	0.919789	9.78655	0.882844
20_10	11/15/12	63	21000	36000	7.98	84	26000	46000	9.1	8.54	612	0.569047	0.962237	0.914924	9.734794	0.877266
20_11	12/4/12	37	9600	18000	8.04	59	18000	34000	7.78	7.91	631	0.559173	0.961087	0.910967	9.692891	0.816079
20_12	12/27/12	68	26000	54000	6.76	71	28000	54000	7.42	7.09	654	0.54745	0.959698	0.90625	9.642499	0.735287
20_13	2/5/13	67	26000	50000	8.31	97	33000	62000	7.18	7.745	694	0.527644	0.957286	0.898231	9.557176	0.810386
20_14	5/20/13	9400	20000	29400	7.106	17000	36000	53000	7.054	7.08	798	0.479438	0.951045	0.878428	9.346472	0.757505
20_15	6/25/13	54000	120000	174000	6.672	31000	67000	98000	7.346	7.009	834	0.463798	0.948894	0.871907	9.277086	0.755517
20_16	7/11/13	24000	52000	76000	5.996	18000	41000	59000	6.5	6.248	850	0.457012	0.947939	0.869061	9.246806	0.675693
20_17	8/27/13	15000	35000	50000	5.458	17000	39000	56000	6.866	6.162	897	0.437647	0.945141	0.860883	9.15979	0.672723
20_18	9/19/13	38000	88000	126000	5.192	34000	81000	115000	6.208	5.7	920	0.428471	0.943775	0.856977	9.118231	0.625121
20_19	10/5/13	59000	140000	199000	5.942	45000	110000	155000	6.182	6.062	936	0.422202	0.942825	0.854296	9.089707	0.666908
20_20	11/1/13	57000	130000	187000	6.094	18000	42000	60000	5.796	5.945	963	0.41183	0.941225	0.849838	9.042277	0.657467
20_21	12/6/13	20000	51000	71000	6.082	16000	39000	55000	5.592	5.837	998	0.398763	0.939156	0.84418	8.98208	0.649849
20_22	1/6/14	58000	140000	198000	5.636	11000	28000	39000	6.272	5.954	1029	0.387536	0.937326	0.83928	8.929944	0.666746
20_23	2/7/14	11000	28000	39000	5.938	13000	33000	46000	5.23	5.584	1061	0.376279	0.935441	0.834328	8.877254	0.629023
20_24	5/14/14	19000	55000	74000	5.46	14000	40000	54000	5.73	5.595	1157	0.34443	0.92981	0.820089	8.725751	0.641206
20_25	6/6/14	26000	77000	103000	5.56	11000	33000	44000	5.53	5.545	1180	0.337709	0.928466	0.816809	8.69085	0.638027
20_26	7/15/14	14000	40000	54000	5.17	15000	44000	59000	4.8	4.985	1219	0.325309	0.926191	0.811358	8.632849	0.577446
20_27	8/11/14	27000	84000	111000	6.14	18000	55000	73000	4.69	5.415	1246	0.317317	0.924619	0.807664	8.59354	0.630125
20_28	9/2/14	34000	110000	144000	5.57	18000	57000	75000	4.77	5.17	1268	0.310951	0.923341	0.8047	8.562008	0.60383
20_29	10/24/14	12000	40000	52000	5.96	13000	45000	58000	4.74	5.35	1320	0.296406	0.920325	0.797857	8.489203	0.630212
20_30	11/18/14	20000	67000	87000	6.2	15000	51000	66000	4.56	5.38	1345	0.289658	0.918879	0.794646	8.455038	0.636307
20_31	12/12/14	38000	130000	168000	6.15	20000	71000	91000	4.75	5.45	1369	0.283324	0.917493	0.791611	8.422737	0.647058
20_32	1/6/15	31000	110000	141000	6.62	13000	46000	59000	4.66	5.64	1394	0.276873	0.916052	0.788496	8.389596	0.672261
20_33	2/9/15	27000	98000	125000	6.17	8800	32000	40800	3.97	5.07	1428	0.268336	0.914095	0.784336	8.345333	0.607525
20_34	5/19/15	11000	41000	52000	4.42	14000	53000	67000	3.97	4.195	1527	0.244946	0.90842	0.772699	8.221517	0.510246
20_35	6/11/15	16000	61000	77000	4.36	13000	47000	60000	3.6	3.98	1550	0.23981	0.907107	0.770092	8.193782	0.485734
20_36	7/15/15	23000	89000	112000	4.63	11000	44000	55000	3.65	4.14	1584	0.232416	0.905169	0.766303	8.153464	0.50776
20_37	8/14/15	14000	58000	72000	4.08	12000	46000	58000	3.71	3.895	1614	0.22608	0.903463	0.763021	8.118545	0.479766
20_38	9/30/15	29000	120000	149000	4.05	14000	58000	72000	3.02	3.535	1661	0.2165	0.900796	0.757992	8.065037	0.438312
20_39	10/19/15	19000	76000	95000	4	11000	47000	58000	3.4	3.7	1680	0.212744	0.89972	0.755997	8.043809	0.459981
20_40	11/7/15	21000	88000	109000	3.82	11000	47000	58000	3.2	3.51	1699	0.209053	0.898645	0.754023	8.022808	0.437503
20_41	12/16/15	18000	79000	97000	3.8	13000	55000	68000	3.28	3.54	1738	0.201675	0.896443	0.750037	7.980394	0.443587
20_42	1/9/16	11000	48000	59000	3.52	9000	39000	48000	3.15	3.335	1762	0.197265	0.895091	0.747627	7.954747	0.419247
20_43	2/2/16	14000	61000	75000	3.3	11000	49000	60000	2.6	2.95	1786	0.192951	0.893741	0.745248	7.929435	0.372032
20_44	5/15/16	11000	57000	68000	3.51	9100	47000	56100	2.96	3.235	1889	0.175485	0.887969	0.735382	7.824461	0.413447
20_45	6/10/16	22000	110000	132000	3.07	9200	49000	58200	2.67	2.87	1915	0.171331	0.886518	0.732975	7.798858	0.368003
20_46	7/16/16	13000	69000	82000	3.07	11000	59000	70000	2.68	2.875	1951	0.165743	0.884513	0.729697	7.763977	0.3703
20_47	8/6/16	13000	68000	81000	3.11	7500	41000	48500	2.75	2.93	1972	0.162567	0.883346	0.727813	7.743927	0.378361
20_48	9/9/16	13000	72000	85000	2.86	5300	28000	33300	2.4	2.63	2006	0.157554	0.881458	0.724804	7.711918	0.341031
20_49	10/16/16	23000	130000	153000	3.19	5900	34000	39900	2.58	2.885	2043	0.152274	0.879409	0.721589	7.677704	0.375763
20_50	11/3/16	6700	38000	44700	3.33	5300	31000	36300	2.64	2.985	2061	0.14977	0.878414	0.720046	7.661286	0.389621
20_51	12/17/16	2500	15000	17500	2.83	3900	24000	27900	2.19	2.51	2105	0.143821	0.875987	0.716331	7.621764	0.32932
20_52	1/22/17	11000	70000	81000	2.82	3600	23000	26600	2.47	2.645	2141	0.139129	0.874005	0.713351	7.590052	0.348482
20_53	2/11/17	8900	58000	66900	2.65	3900	25000	28900	2.39	2.52	2161	0.136589	0.872906	0.711717	7.57267	0.332776
20_54	5/27/17	4000	28000	32000	2.55	3000	22000	25000	2.07	2.31	2266	0.123996	0.86716	0.703389	7.484058	0.308656
20_55	6/20/17	6700	47000	53700	2.65	5000	35000	40000	2.14	2.395	2290	0.121284	0.865652	0.701541	7.4644	0.320656
20_56	7/10/17	9000	64000	73000	2.63	3200	22000	25200	2.23	2.43	2310	0.11907	0.864764	0.700017	7.448182	0.326254
20_57	8/11/17	8000	59000	67000	2.43	2600	20000	22600	2.05	2.24	2342	0.115611	0.863025	0.697607	7.422534	0.301784
20_58	9/10/17	6000	45000	51000	2.39	3500	27000	30500	2.05	2.22	2372	0.11246	0.861398	0.695378	7.398817	0.300048
20_59	10/15/17	6000	49000	55000	3.21	3100	25000	28100	1.9	2.555	2407	0.108892	0.859504	0.692814	7.371538	0.346603
20_60	11/5/17	7700	60000	67700	2.35	3700	31000	34700	1.86	2.105	2428	0.106805	0.858369	0.691294	7.355368	0.286186
20_61	12/19/17	18000	150000	168000	2.49	2700	22000	24700	2	2.245	2472	0.102563	0.855997	0.688154	7.321955	0.306612
20_62	1/18/18	10000	90000	100000	2.44	3800	33000	36800	2.08	2.25	2502	0.099767	0.854383	0.686046	7.299525	0.308239
20_63	2/4/18	11000	96000	107000	2.45	4000	35000	39000	1.96	2.205	2519	0.098217	0.85347	0.684863	7.286938	0.302596
20_64	5/16/18	7300	70000	77300	2.23	3400	33000	36400	1.88	2.055	2620	0.089491	0.848065	0.678001	7.213928	0.284866
20_65	6/9/18	6800	67000	73800	2.27	3900	39000	42900	1.91	2.09	2644	0.087534	0.846786	0.67641	7.197007	0.290398
20_66	7/10/18	6900	67000	73900	2.94	4100	39000	43100	2.4	2.67	2675	0.085069	0.845136	0.674378	7.175384	0.372106
20_67	8/18/18	6100	62000	68100	2.71	2900	30000	32900	2.36	2.535	2714	0.082067	0.843066	0.671856	7.148543	0.354618
20_68	9/10/18	10000	110000	120000	2.77	2900	30000	32900	2.24	2.505	2737	0.080347	0.841847	0.670385	7.132898	0.35119
20_69	10/13/18	11000	110000	121000	2.98	4500	47000	51500	2.08	2.53	2770	0.077941	0.840101	0.668298	7.110886	0.355803
20_70	11/15/18	8000	88000	96000	2.99	2500	27000	29500	2.22	2.605	2803	0.075607	0.838359	0.666235	7.088741	0.367484
20_71	12/15/18	7200	81000	88200	2.88	2800	31000	33800	2.3	2.59	2833	0.073546	0.836779	0.664381	7.069018	0.366388
20_72	1/18/19	4500	53000	57500	3.08	2600	32000	34600	2.46	2.77	2867	0.071278	0.834991	0.662304	7.04692	0.39308
20_73	2/12/19	6400	73000	79400	2.85	1400	17000	18400	2.45	2.65	2892	0.069655	0.833679	0.660793	7.030839	0.376911
20_74	5/12/19	4100	53000	57100	2.7	3000	37000	40000	2.36	2.53	2981	0.064172	0.829025	0.655517	6.974703	0.362739
20_75	6/9/19	5800	77000	82800	2.87	2400	35000	37400	2.39	2.63	3009	0.062538	0.827566	0.65389	6.957388	0.378015
20_76	7/7/19	3100	42000	45100	2.72	1700	24000	25700	2.19	2.455	3037	0.060945	0.82611	0.652277	6.940231	0.353735
20_77	8/11/19	4400	63000	67400	3.09	1900	26000	27900	2.23	2.66	3072	0.059012	0.824293	0.650282	6.919003	0.384448
20_78	9/8/19	8500	120000	128500	2.65	1400	20000	21400	2.22	2.435	3100	0.057509	0.822843	0.648702	6.902192	0.352787
20_79	11/26/19	3300	52000	55300	2.66	2100	32000	34100	1.81	2.235	3179	0.053472	0.818764	0.644318	6.855543	0.326014
20_80	12/14/19	8800	140000	148800	2.9	2000	32000	34000	1.79	2.345	3197	0.052593	0.817838	0.643334	6.845071	0.342582
20_81	1/12/20	9100	140000	149100	2.79	1600	27000	28600	1.89	2.34	3226	0.051207	0.816347	0.641759	6.828319	0.342691
20_82	2/2/20	5500	88000	93500	2.74	1700	27000	28700	1.75	2.245	3247	0.050225	0.81527	0.640628	6.816277	0.329359
20_83	7/10/20	1800	32000	33800	2.65	3400	65000	68400	1.64	2.145	3406	0.043382	0.807157	0.632276	6.727419	0.318844
20_84	8/14/20	4200	80000	84200	2.43	1200	24000	25200	1.58	2.005	3441	0.042006	0.805382	0.630487	6.708378	0.29888
20_85	9/5/20	3700	72000	75700	2.33	2400	46000	48400	1.34	1.835	3463	0.041163	0.804268	0.62937	6.696501	0.274024
20_86	10/18/20	3000	60000	63000	2.41	1500	30000	31500	1.45	1.93	3506	0.039564	0.802096	0.627207	6.673482	0.289204
20_87	11/24/20	5400	110000	115400	2.63	1600	33000	34600	1.72	2.175	3543	0.038238	0.800231	0.625365	6.653879	0.326877
20_88	12/13/20	3100	71000	74100	2.57	1500	30000	31500	1.67	2.12	3562	0.037575	0.799275	0.624425	6.643884	0.31909
20_89	1/22/21	4300	98000	102300	2.48	1700	37000	38700	1.57	2.025	3602	0.036215	0.797267	0.622462	6.622996	0.305753
20_90	2/5/21	3100	71000	74100	2.49	1100	25000	26100	1.57	2.03	3616	0.035751	0.796565	0.621779	6.615734	0.308844
20_91	5/19/21	700	19000	19700	1.57	270	7600	7870	1.14	1.355	3719	0.032515	0.791421	0.616828	6.563048	0.206459
20_92	6/3/21	1400	37000	38400	1.31	1500	38000	39500	1.77	1.54	3734	0.032069	0.790675	0.616117	6.555482	0.234918
20_93	7/20/21	1600	46000	47600	2.33	1000	28000	29000	1.34	1.835	3781	0.03071	0.788341	0.613904	6.53194	0.280927
20_94	8/29/21	1200	33000	34200	2.32	980	28000	28980	1.34	1.83	3821	0.029599	0.78636	0.612039	6.512099	0.281015
20_95	9/16/21	370	11000	11370	2.28	820	24000	24820	1.33	1.805	3839	0.029112	0.78547	0.611206	6.503228	0.277554
20_96	10/17/21	1000	30000	31000	2.41	860	26000	26860	1.57	1.99	3870	0.028292	0.78394	0.609777	6.48803	0.306719
20_97	11/13/21	460	15000	15460	2.32	797	21000	21710	1.57	1.945	3897	0.027597	0.78261	0.608541	6.474676	0.300392
20_98	12/6/21	610	20000	20610	2.12	1000	31000	32000	1.33	1.725	3920	0.027019	0.781478	0.607493	6.46373	0.266874
20_99	1/14/22	580	18000	18580	1.78	680	23000	23680	1.33	1.555	3959	0.026065	0.779564	0.605729	6.444952	0.241274
20_100	2/16/22	230	7500	7730	1.78	810	27000	27810	1.52	1.65	3992	0.025285	0.777947	0.604246	6.429181	0.256642
20_101	5/10/22	2400	85000	87400	2.37	1100	40000	41100	1.49	1.93	4075	0.023424	0.773896	0.600561	6.38997	0.302036
20_102	6/8/22	1100	41000	42100	1.68	460	17000	17460	1.25	1.465	4104	0.022806	0.772486	0.599288	6.376419	0.229753
20_103	7/12/22	1300	48000	49300	1.78	860	32000	32860	1.33	1.555	4138	0.022103	0.770836	0.597803	6.360828	0.244473
20_104	8/2/22	1100	41000	42100	1.74	760	28000	28760	1.64	1.69	4159	0.021679	0.769818	0.596891	6.350924	0.266103
20_105	9/15/22	720	29000	29720	2.28	810	35000	35810	1.46	1.87	4203	0.020818	0.76769	0.594992	6.330716	0.295385
20_106	10/4/22	1200	48000	49200	1.76	800	33000	33800	1.21	1.485	4222	0.020457	0.766774	0.594177	6.32204	0.234893
20_107	11/5/22	1200	46000	47200	2.05	850	34000	34850	1.27	1.66	4254	0.019863	0.765232	0.59281	6.307494	0.263179
20_108	12/6/22	890	37000	37890	1.85	820	35000	35820	1.39	1.62	4285	0.019303	0.763741	0.591493	6.293481	0.257409
20_109	1/11/23	1800	76000	77800	1.9	210	9000	9210	1.36	1.63	4321	0.018674	0.762014	0.589972	6.277304	0.259666
20_110	2/2/23	1100	49000	50100	1.83	370	17000	17370	1.32	1.575	4343	0.018299	0.76096	0.589048	6.267467	0.251298
20_111	5/31/23	810	42000	42810	1.77	460	24000	24460	1.15	1.46	4461	0.016414	0.755333	0.584147	6.215322	0.234903
20_112	6/30/23	520	28000	28520	1.71	770	39000	39770	1.22	1.465	4491	0.015967	0.753909	0.582916	6.202224	0.236206
20_113	7/14/23	1200	60000	61200	1.68	670	33000	33670	1.22	1.45	4505	0.015762	0.753245	0.582343	6.196133	0.234017
20_114	8/29/23	3500	180000	183500	1.87	280	15000	15280	1.28	1.575	4551	0.015108	0.751069	0.580471	6.176214	0.255011
20_115	9/19/23	1100	55000	56100	1.78	670	38000	38670	1.07	1.425	4572	0.014819	0.750077	0.579621	6.167168	0.231062
20_116	10/11/23	1700	96000	97700	1.93	410	22000	22410	0.8	1.365	4594	0.014521	0.74904	0.578733	6.157722	0.221673
20_117	11/17/23	760	42000	42760	1.7	430	26000	26430	1.22	1.46	4631	0.014035	0.747299	0.577247	6.141907	0.237711
20_118	12/19/23	1500	88000	89500	1.94	390	24000	24390	1.22	1.58	4663	0.013627	0.745796	0.575968	6.128299	0.25782
20_119	1/25/24	1800	110000	111800	1.72	450	24000	24450	1.21	1.465	4700	0.01317	0.744063	0.574497	6.112644	0.239667
20_120	2/8/24	460	29000	29460	1.53	180	11000	11180	0.95	1.24	4714	0.013002	0.743408	0.573942	6.106743	0.203054
20_121	5/16/24	550	38000	38550	1.42	410	26000	26410	1	1.21	4812	0.011879	0.738839	0.57009	6.06576	0.19948
20_122	6/19/24	520	37000	37520	1.47	280	20000	20280	0.83	1.15	4846	0.011513	0.737261	0.568766	6.051671	0.19003
20_123	7/8/24	470	34000	34470	1.53	290	21000	21290	0.86	1.195	4865	0.011313	0.73638	0.568029	6.043827	0.197722
20_124	8/15/24	1000	69000	70000	1.57	360	25000	25360	0.94	1.255	4903	0.010924	0.734622	0.56656	6.028198	0.208188
20_125	9/24/24	760	56000	56760	1.47	340	23000	23340	0.87	1.17	4943	0.010529	0.732776	0.565022	6.011831	0.194616

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
21_1	11/21/11	3200	4100	7300	1.43					1.43	252	0.792827	0.984274	1.001534	1.432194	0.998468
21_2	1/6/12	4300	5700	10000	2.57					2.57	298	0.759932	0.98143	0.989106	1.414422	1.816997
21_3	3/4/12	1300	1900	3200	1.16					1.16	356	0.720393	0.977856	0.974049	1.392889	0.832801
21_4	6/13/12	19	3200	4900	1.99					1.99	457	0.656389	0.971664	0.949361	1.357587	1.465836
21_5	7/3/12	11	550	900	0.87					0.87	477	0.644406	0.970442	0.944692	1.350909	0.644011
21_6	7/26/12	14	730	1200	0.92					0.92	500	0.630896	0.969039	0.939407	1.343353	0.684854
21_7	8/28/12	19	2800	4600	1.66					1.66	533	0.612005	0.96703	0.931982	1.332734	1.24556
21_8	9/19/12	14	1300	2200	1.6					1.6	555	0.599726	0.965693	0.927131	1.325798	1.20682
21_9	11/15/12	14	1500	2600	1.67	7.4	200	360	0.67	1.17	612	0.569047	0.962237	0.914924	1.308342	0.894262
21_10	12/5/12	12	810	1400	1.28	11	400	720	0.6	0.94	632	0.558658	0.961027	0.91076	1.302387	0.721751
21_11	12/26/12	6.7	160	280	1.32	17	1300	2500	0.58	0.95	653	0.547954	0.959758	0.906453	1.296228	0.732896
21_12	2/5/13	17	1300	2500	1.59	17	1700	3100	0.6	1.095	694	0.527644	0.957286	0.898231	1.284447	0.852492
21_13	5/20/13	190	390	580	1.17	290	580	870	0.824	0.897	798	0.479438	0.951045	0.878428	1.256152	0.714086
21_14	6/24/13	600	1300	1900	0.784	340	760	1100	0.562	0.673	833	0.464226	0.948953	0.872085	1.247082	0.531641
21_15	7/11/13	350	780	1130	0.87	300	660	960	0.562	0.716	850	0.457012	0.947939	0.869061	1.242757	0.576138
21_16	8/27/13	840	1900	2740	0.676	860	2000	2860	0.486	0.581	897	0.437647	0.945141	0.860883	1.231062	0.47195
21_17	9/19/13	590	1400	1990	0.702	1000	2300	3300	0.464	0.583	920	0.428471	0.943775	0.856977	1.225477	0.475733
21_18	10/1/13	560	1300	1860	0.724	2300	5100	7400	0.488	0.606	932	0.423761	0.943062	0.854963	1.222597	0.495666
21_19	11/1/13	650	1500	2150	0.752	410	910	1320	0.556	0.654	963	0.41183	0.941225	0.849838	1.215268	0.538153
21_20	12/6/13	1600	3900	5500	0.782	270	740	1010	0.568	0.675	998	0.398763	0.939156	0.84418	1.207178	0.559155
21_21	1/6/14	1600	4000	5600	0.714	900	2200	3100	0.512	0.613	1029	0.387536	0.937326	0.83928	1.200171	0.510761
21_22	2/7/14	1000	2500	3500	0.562	670	1700	2370	0.404	0.483	1061	0.376279	0.935441	0.834328	1.19309	0.404831
21_23	5/13/14	560	1500	2060	0.8	350	1000	1350	0.54	0.67	1156	0.344748	0.929868	0.820233	1.172933	0.571217
21_24	6/6/14	870	2500	3370	0.73	430	1200	1630	0.55	0.64	1180	0.337209	0.928466	0.816809	1.168037	0.547928
21_25	7/15/14	1300	3600	4900	0.72	680	2000	2680	0.49	0.605	1219	0.325309	0.926191	0.811358	1.160242	0.521443
21_26	8/11/14	530	1700	2230	0.65	210	600	810	0.49	0.57	1246	0.317317	0.924619	0.807664	1.154959	0.493524
21_27	9/2/14	910	2700	3610	0.71	590	1800	2390	0.46	0.585	1268	0.310951	0.923341	0.8047	1.150721	0.508377
21_28	10/10/14	860	2800	3660	0.65	120	330	450	0.49	0.57	1306	0.300254	0.921136	0.799678	1.143539	0.498453
21_29	11/18/14	410	1400	1810	0.75	100	340	440	0.45	0.6	1345	0.289658	0.918879	0.794646	1.136344	0.528009
21_30	12/12/14	940	3000	3940	0.64	110	330	440	0.49	0.565	1369	0.283324	0.917493	0.791611	1.132003	0.499115
21_31	1/6/15	910	3100	4010	0.65	330	1100	1430	0.5	0.575	1394	0.276873	0.916052	0.788496	1.127549	0.509956
21_32	2/9/15	1000	3600	4600	0.79	350	1200	1550	0.49	0.64	1428	0.268336	0.914095	0.784336	1.1216	0.570613
21_33	5/19/15	1900	7200	9100	0.5	520	1900	2420	0.42	0.46	1527	0.244946	0.90842	0.772699	1.104959	0.416305
21_34	6/11/15	1200	4500	5700	0.7	490	1800	2290	0.4	0.55	1550	0.23981	0.907107	0.770092	1.101232	0.499441
21_35	7/9/15	690	2700	3390	0.49	790	3200	3990	0.4	0.445	1578	0.233704	0.905511	0.766966	1.096762	0.40574
21_36	8/8/15	1100	4400	5500	0.46	240	930	1170	0.41	0.435	1608	0.227333	0.903804	0.763673	1.092052	0.398333
21_37	9/30/15	670	2900	3570	0.31	570	2600	3170	0.29	0.3	1661	0.2165	0.900796	0.757992	1.083929	0.276771
21_38	10/19/15	680	2700	3380	0.3	290	1300	1590	0.27	0.285	1680	0.212744	0.89972	0.755997	1.081076	0.263626
21_39	11/10/15	460	2100	2560	0.34	230	960	1190	0.26	0.3	1702	0.208476	0.898476	0.753714	1.07781	0.278342
21_40	12/15/15	1000	4700	5700	0.28	480	2400	2880	0.26	0.27	1737	0.201861	0.8965	0.750138	1.072698	0.251702
21_41	1/9/16	530	2400	2930	0.42	56	250	306	0.26	0.34	1762	0.197265	0.895091	0.747627	1.069106	0.318023
21_42	2/6/16	1100	4700	5800	0.31	430	2200	2630	0.23	0.27	1790	0.192242	0.893516	0.744854	1.065141	0.253487
21_43	5/14/16	530	2800	3330	0.28	71	360	431	0.25	0.265	1888	0.175646	0.888025	0.735475	1.051729	0.251966
21_44	6/20/16	800	4300	5100	0.24	660	3500	4160	0.22	0.23	1925	0.16976	0.885961	0.732059	1.046844	0.219708
21_45	7/16/16	570	3100	3670	0.28	250	1500	1750	0.26	0.27	1951	0.165743	0.884513	0.729697	1.043467	0.258753
21_46	8/5/16	630	3500	4130	0.35	490	2700	3190	0.24	0.295	1971	0.162717	0.883401	0.727902	1.0409	0.283409
21_47	9/7/16	350	2100	2450	0.26	160	810	970	0.16	0.21	2004	0.157844	0.881569	0.72498	1.036721	0.202562
21_48	10/10/16	340	2100	2440	0.23	85	450	535	0.14	0.185	2037	0.153118	0.879741	0.722106	1.032612	0.179157
21_49	11/3/16	980	5600	6580	0.27	210	1200	1410	0.15	0.21	2061	0.14977	0.878414	0.720046	1.029665	0.20395
21_50	12/18/16	560	3600	4160	0.26	200	1100	1300	0.2	0.23	2106	0.143688	0.875931	0.716248	1.024234	0.224558
21_51	1/23/17	570	3600	4170	0.34	1600	10000	11600	0.35	0.345	2142	0.139001	0.87395	0.713269	1.019974	0.338244
21_52	2/19/17	530	3300	3830	0.25	1800	11000	12800	0.38	0.315	2169	0.135586	0.872467	0.711068	1.016827	0.309787
21_53	5/7/17	610	4300	4910	0.25	1700	12000	13700	0.32	0.285	2246	0.126302	0.868252	0.704944	1.00807	0.282718
21_54	6/4/17	390	3000	3390	0.3	230	1700	1930	0.35	0.325	2274	0.123085	0.866724	0.702771	1.004962	0.323395
21_55	7/4/17	360	2800	3160	0.18	1400	10000	11400	0.18	0.18	2304	0.11973	0.86509	0.700473	1.001676	0.179699
21_56	8/6/17	290	1700	1990	0.12	370	2000	2370	0.27	0.195	2337	0.116145	0.863296	0.697981	0.998113	0.195369
21_57	9/6/17	3.6	39	42.6	0.12	930	7700	8630	0.33	0.225	2368	0.112875	0.861615	0.695673	0.994812	0.226173
21_58	10/8/17	10	49	49	0.13	370	3100	3470	0.3	0.215	2400	0.109596	0.859682	0.693323	0.991452	0.216854
21_59	11/6/17	32	250	282	0.13	890	7400	8290	0.24	0.185	2429	0.106707	0.858315	0.691222	0.988447	0.187162
21_60	12/2/17	520	4600	5120	0.14	21	150	171	0.24	0.19	2455	0.104182	0.856912	0.68936	0.985785	0.19274
21_61	1/19/18	52	410	462	0.11	36	260	296	0.18	0.145	2503	0.099675	0.854329	0.685976	0.980945	0.147817
21_62	2/10/18	120	1000	1120	0.14	440	4000	4440	0.24	0.19	2525	0.097675	0.853148	0.684447	0.978759	0.194123
21_63	5/5/18	81	670	751	0.15	930	9000	9930	0.19	0.17	2609	0.090402	0.848652	0.678735	0.970591	0.175151
21_64	6/3/18	110	1200	1310	0.1	160	1700	1860	0.15	0.125	2638	0.088019	0.847105	0.676807	0.967833	0.129154
21_65	7/5/18	98	1000	1098	0.15	100	1200	1300	0.18	0.165	2670	0.085462	0.845402	0.674704	0.964827	0.160651
21_66	8/12/18	100	1000	1100	0.13	160	1600	1760	0.11	0.12	2708	0.082522	0.843384	0.672241	0.961305	0.12483
21_67	9/10/18	39	460	499	0.14	390	4400	4790	0.15	0.145	2737	0.080347	0.841847	0.670385	0.958851	0.151254
21_68	10/5/18	110	1200	1310	0.2	250	2800	3050	0.18	0.19	2762	0.078517	0.840524	0.668801	0.956386	0.198665
21_69	11/7/18	150	1500	1650	0.17	110	1200	1310	0.16	0.165	2795	0.076166	0.838781	0.666733	0.953428	0.17306
21_70	12/2/18	94	1100	1194	0.16	120	1400	1520	0.17	0.165	2820	0.074432	0.837463	0.665182	0.951211	0.173463
21_71	1/16/19	90	1200	1290	0.13	160	2000	2160	0.13	0.13	2865	0.07141	0.835096	0.662426	0.947269	0.137237
21_72	2/11/19	75	960	1035	0.15	40	470	510	0.18	0.165	2891	0.069719	0.833731	0.660853	0.94502	0.174599
21_73	5/3/19	70	860	930	0.14	66	800	866	0.16	0.15	2972	0.064706	0.829494	0.656044	0.938142	0.15989
21_74	6/7/19	52	750	802	0.17	57	770	827	0.18	0.175	3007	0.062653	0.82767	0.654006	0.935228	0.18712
21_75	7/7/19	97	1300	1397	0.15	85	1200	1285	0.17	0.16	3037	0.060945	0.82611	0.652277	0.932757	0.171535
21_76	8/8/19	82	1200	1282	0.16	150	2300	2450	0.13	0.145	3069	0.059175	0.824449	0.650452	0.930147	0.155889
21_77	9/4/19	72	1100	1172	0.14	110	1700	1810	0.16	0.15	3096	0.057721	0.82305	0.648927	0.927966	0.161644
21_78	10/4/19	73	970	1043	0.14	86	1300	1386	0.14	0.14	3126	0.056148	0.821498	0.647247	0.925564	0.151259
21_79	11/7/19	45	780	825	0.15	110	1700	1810	0.2	0.175	3160	0.054417	0.819743	0.645363	0.922869	0.189626
21_80	12/3/19	44	680	724	0.16	74	1200	1274	0.2	0.18	3186	0.053129	0.818404	0.643935	0.920826	0.195477
21_81	1/13/20	55	840	895	0.15	240	3600	3840	0.21	0.18	3227	0.051159	0.816296	0.641705	0.917638	0.196156
21_82	2/1/20	43	710	753	0.15	150	2600	2750	0.21	0.18	3246	0.050272	0.815321	0.640681	0.916174	0.196469
21_83	7/7/20	19	320	339	0.11	79	1500	1579	0.15	0.13	3403	0.043502	0.807309	0.63243	0.904375	0.143746
21_84	8/7/20	79	1500	1579	0.12	220	4100	4320	0.19	0.155	3434	0.042277	0.805736	0.630843	0.902106	0.17182
21_85	9/3/20	57	1100	1157	0.11	90	1800	1890	0.17	0.14	3461	0.041239	0.804369	0.629472	0.900144	0.155531
21_86	10/9/20	39	820	859	0.12	160	3400	3560	0.23	0.175	3497	0.039894	0.80255	0.627658	0.897551	0.194975
21_87	11/20/20	45	1100	1145	0.12	150	3100	3250	0.21	0.165	3539	0.038379	0.800432	0.625563	0.894555	0.184449
21_88	12/7/20	35	780	815	0.12	100	2400	2500	0.18	0.15	3556	0.037783	0.799577	0.624721	0.893352	0.167907
21_89	1/12/21	25	580	605	0.13	160	3800	3960	0.2	0.165	3592	0.036551	0.797769	0.622951	0.89082	0.185223
21_90	2/2/21	23	470	493	0.12	150	3600	3750	0.2	0.16	3613	0.03585	0.796715	0.621926	0.889354	0.179906
21_91	5/18/21	60	1100	1160	0.05	55	1100	1155	0.06	0.055	3718	0.032545	0.791471	0.616875	0.882132	0.062349
21_92	6/5/21	20	520	540	0.12	9.9	240	249.9	0.2	0.16	3736	0.03201	0.790575	0.616022	0.880912	0.18163
21_93	7/20/21	13	350	363	0.12	25	610	635	0.2	0.16	3781	0.03071	0.788341	0.613904	0.877883	0.182257
21_94	8/29/21	37	1200	1237	0.12	31	830	861	0.18	0.15	3821	0.029599	0.78636	0.612039	0.875216	0.171386
21_95	9/16/21	26	930	956	0.12	27	880	907	0.19	0.155	3839	0.029112	0.78547	0.611206	0.874024	0.177341
21_96	10/18/21	33	1200	1233	0.13	39	1000	1039	0.15	0.14	3871	0.028266	0.783891	0.609731	0.871916	0.160566
21_97	11/15/21	40	1300	1340	0.11	30	730	760	0.2	0.155	3898	0.027547	0.782511	0.60845	0.870083	0.178144
21_98	12/7/21	43	1200	1243	0.12	28	740	768	0.21	0.165	3921	0.026994	0.781429	0.607448	0.868651	0.18995
21_99	1/14/22	26	660	686	0.13	36	1300	1336	0.2	0.165	3959	0.026065	0.779564	0.605729	0.866192	0.190489
21_100	2/16/22	16	580	596	0.11	35	860	895	0.21	0.16	3992	0.025285	0.777947	0.604246	0.864072	0.18517
21_101	5/10/22	17	700	717	0.12	31	980	1011	0.19	0.155	4075	0.023424	0.773896	0.600561	0.858802	0.180484
21_102	6/8/22	10	480	490	0.09	12	450	462	0.11	0.1	4104	0.022806	0.772486	0.599288	0.856981	0.116689
21_103	7/12/22	29	870	899	0.11	27	1000	1027	0.15	0.13	4138	0.022103	0.770836	0.597803	0.854859	0.152072
21_104	8/3/22	30	1200	1230	0.11	20	890	910	0.17	0.14	4160	0.021659	0.76977	0.596848	0.853493	0.164032
21_105	9/15/22	13	520	533	0.11	15	550	565	0.18	0.145	4203	0.020818	0.76769	0.594992	0.850839	0.17042
21_106	10/5/22	18	720	738	0.1	30	1200	1230	0.11	0.105	4223	0.020438	0.766725	0.594134	0.849611	0.123586
21_107	11/4/22	11	590	601	0.11	19	670	689	0.13	0.12	4253	0.019881	0.76528	0.592852	0.847779	0.141546
21_108	12/6/22	29	1200	1229	0.1	30	1400	1430	0.12	0.11	4285	0.019303	0.763741	0.591493	0.845834	0.130049
21_109	1/11/23	19	830	849	0.12	28	1200	1228	0.23	0.175	4321	0.018674	0.762014	0.589972	0.84366	0.207429
21_110	2/2/23	14	660	674	0.13	39	1800	1839	0.25	0.19	4343	0.018299	0.76096	0.589048	0.842338	0.225563
21_111	5/29/23	16	530	546	0.12	12	700	712	0.19	0.155	4459	0.016444	0.755428	0.584229	0.835448	0.185529
21_112	6/19/23	13	730	743	0.13	9.8	780	780	0.16	0.145	4480	0.016129	0.754431	0.583366	0.834214	0.173816
21_113	7/10/23	28	1500	1528	0.11	15	850	865	0.18	0.145	4501	0.01582	0.753435	0.582507	0.832985	0.174073
21_114	8/29/23	26	1400	1426	0.12	11	690	701	0.21	0.165	4551	0.015108	0.751069	0.580471	0.830074	0.198777
21_115	9/19/23	15	640	655	0.12	12	730	742	0.22	0.17	4572	0.014819	0.750077	0.579621	0.828858	0.205101
21_116	10/24/23	15	650	665	0.14	27	1400	1427	0.22	0.18	4607	0.014349	0.748428	0.57821	0.82684	0.217696
21_117	11/27/23	9.6	460	469.6	0.11	17	1300	1317	0.22	0.165	4641	0.013906	0.746829	0.576847	0.824891	0.200027
21_118	12/25/23	8.6	120	120	0.13	14	690	704	0.25	0.19	4669	0.013552	0.745515	0.575729	0.823292	0.230781
21_119	1/25/24	16	1200	1216	0.11	35	1800	1835	0.24	0.175	4700	0.01317	0.744063	0.574497	0.82153	0.213017
21_120	2/8/24	9.2	500	509.2	0.09	8.8	580	580	0.2	0.145	4714	0.013002	0.743408	0.573942	0.820737	0.17667
21_121	5/17/24	16	1200	1216	0.12	14	1100	1114	0.2	0.16	4813	0.011868	0.738793	0.570051	0.815173	0.196277
21_122	6/26/24	22	1300	1322	0.08	14	1100	1114	0.19	0.135	4853	0.011439	0.736936	0.568494	0.812947	0.166063
21_123	7/8/24	24	1800	1824	0.1	15	650	665	0.18	0.14	4865	0.011313	0.73638	0.568029	0.812281	0.172354
21_124	8/16/24	6.3	390	390	0.1	25	1400	1425	0.2	0.15	4904	0.010914	0.734576	0.566521	0.810126	0.185156
21_125	9/24/24	30	1600	1630	0.08	17	1400	1417	0.18	0.13	4943	0.010529	0.732776	0.565022	0.807981	0.160895

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
22_1	6/14/12	22	2500	3800	0.63	14	990	1500	0.57	0.6	458	0.655784	0.971603	0.949126	0.569476	1.053601
22_2	7/3/12	26	3200	5000	0.49	15	890	1400	0.6	0.545	477	0.644406	0.970442	0.944692	0.566815	0.961513
22_3	7/26/12	18	1700	2700	0.55	14	900	1400	0.45	0.5	500	0.630896	0.969039	0.939407	0.563644	0.887084
22_4	9/20/12	23	2500	4200	0.54	22	2200	3700	0.5	0.52	556	0.599174	0.965632	0.926913	0.556148	0.935003
22_5	11/9/12	23	2400	4000	0.49	14	950	1600	0.54	0.515	606	0.572201	0.9626	0.916185	0.549711	0.936856
22_6	12/26/12	15	980	1800	0.43	12	730	1300	0.49	0.46	653	0.547954	0.959758	0.906453	0.543872	0.845787
22_7	5/22/13	2300	4700	7000	0.426	950	2000	2950	0.47	0.448	800	0.478555	0.950925	0.878061	0.526837	0.850358
22_8	6/25/13	21	36	57	0.28	360	770	1130	0.27	0.275	834	0.463798	0.948894	0.871907	0.523144	0.525668
22_9	8/28/13	1700	3800	5500	0.474	1400	3100	4500	0.37	0.422	898	0.437244	0.945081	0.860711	0.516427	0.817153
22_10	10/5/13	1800	4300	6100	0.544	110	230	340	0.276	0.41	936	0.422202	0.942825	0.854296	0.512577	0.799879
22_11	12/10/13	760	1900	2660	0.406	910	2100	3010	0.404	0.405	1002	0.397296	0.938919	0.843542	0.506125	0.800197
22_12	5/30/14	670	1900	2570	0.48	410	1200	1610	0.39	0.435	1173	0.339391	0.928874	0.817802	0.490681	0.886522
22_13	6/23/14	490	1500	1990	0.37	1400	3900	5300	0.31	0.34	1197	0.331969	0.927473	0.814416	0.48865	0.695795
22_14	8/12/14	280	800	1080	0.44	430	1200	1630	0.4	0.42	1247	0.317025	0.924561	0.807528	0.484517	0.866843
22_15	10/1/14	340	950	1290	0.44	620	2000	2620	0.37	0.405	1297	0.302754	0.921658	0.800856	0.480514	0.842848
22_16	12/3/14	200	720	920	0.42	450	1500	1950	0.37	0.395	1360	0.285683	0.918013	0.792744	0.475646	0.830449
22_17	5/18/15	190	710	900	0.35	470	1700	2170	0.26	0.305	1526	0.245172	0.908477	0.772813	0.463688	0.65777
22_18	6/15/15	220	840	1060	0.39	220	970	1190	0.36	0.375	1554	0.238928	0.906879	0.769643	0.461786	0.812085
22_19	8/25/15	88	360	448	0.28	280	1200	1480	0.26	0.27	1625	0.223801	0.902838	0.761832	0.457099	0.590681
22_20	10/10/15	140	650	790	0.27	190	1000	1190	0.26	0.265	1671	0.214515	0.900229	0.756939	0.454164	0.58349
22_21	12/2/15	360	1600	1960	0.29	230	1100	1330	0.26	0.275	1724	0.204293	0.897233	0.751458	0.450875	0.609925
22_22	2/8/16	390	1800	2190	0.21				0.13	0.17	1792	0.191888	0.893404	0.744658	0.446795	0.380488
22_23	5/12/16	160	770	930	0.23	730	3700	4430	0.24	0.235	1886	0.17597	0.888137	0.735661	0.441397	0.532401
22_24	6/11/16	190	990	1180	0.25	330	1800	2130	0.23	0.24	1916	0.171174	0.886463	0.732884	0.43973	0.545789
22_25	8/26/16	250	1300	1550	0.25	230	1300	1530	0.24	0.245	1992	0.159599	0.882235	0.726037	0.435622	0.562414
22_26	10/12/16	250	1600	1850	0.21	330	2000	2330	0.22	0.215	2039	0.152836	0.879631	0.721933	0.43316	0.496352
22_27	12/10/16	110	610	720	0.25	290	1800	2090	0.22	0.235	2098	0.144751	0.876372	0.716917	0.43015	0.546321
22_28	2/21/17	180	1200	1380	0.22	260	1600	1860	0.2	0.21	2171	0.135337	0.872358	0.710906	0.426544	0.492329
22_29	5/11/17	100	870	970	0.21	170	1100	1270	0.22	0.215	2250	0.125837	0.868033	0.704632	0.422779	0.50854
22_30	6/11/17	140	1000	1140	0.21	160	1200	1360	0.23	0.22	2281	0.122294	0.866343	0.702232	0.421339	0.522145
22_31	8/21/17	85	690	775	0.21	210	1800	2010	0.21	0.21	2352	0.114551	0.862482	0.69686	0.418116	0.502253
22_32	10/11/17	120	790	910	0.18	180	1400	1580	0.21	0.195	2403	0.109294	0.85972	0.693105	0.415863	0.468905
22_33	12/18/17	86	790	876	0.17	130	920	1050	0.18	0.175	2471	0.102657	0.856051	0.688224	0.412935	0.423796
22_34	2/19/18				0.14				0.12	0.13	2534	0.096869	0.852665	0.683826	0.410295	0.316845
22_35	5/1/18	110	990	1100	0.25	100	1000	1100	0.26	0.255	2605	0.090736	0.848866	0.679002	0.407401	0.625918
22_36	6/2/18	120	1200	1320	0.15	96	1000	1096	0.16	0.155	2637	0.0881	0.847159	0.676873	0.406124	0.381657
22_37	8/7/18	74	780	854	0.17	110	1200	1310	0.19	0.18	2703	0.082903	0.843649	0.672563	0.403538	0.446055
22_38	10/5/18	94	1000	1094	0.15	130	1600	1730	0.16	0.155	2762	0.078517	0.840524	0.668801	0.401281	0.386263
22_39	11/8/18	63	750	813	0.24	130	1400	1530	0.25	0.245	2796	0.076096	0.838728	0.66667	0.400002	0.612497
22_40	12/15/18	43	530	573	0.14	180	2200	2380	0.15	0.145	2833	0.073546	0.836779	0.664381	0.398629	0.363747
22_41	5/1/19	75	940	1015	0.21	120	1500	1620	0.19	0.2	2970	0.064826	0.829599	0.656161	0.393696	0.508006
22_42	6/3/19	39	460	499	0.13	59	850	909	0.14	0.135	3003	0.062885	0.827879	0.654237	0.392542	0.343912
22_43	8/25/19	62	910	972	0.23	180	2800	2980	0.21	0.22	3086	0.058256	0.823568	0.64949	0.389694	0.564545
22_44	10/28/19	37	560	597	0.12	44	820	864	0.14	0.13	3150	0.05492	0.820259	0.645915	0.387549	0.335441
22_45	11/18/19	27	340	367	0.2	68	1100	1168	0.22	0.21	3171	0.053868	0.819176	0.644757	0.386854	0.54284
22_46	12/9/19	51	770	821	0.12	45	640	685	0.13	0.125	3192	0.052836	0.818095	0.643607	0.386164	0.323697
22_47	8/10/20	46	820	866	0.17	7.2	120	120	0.09	0.13	3437	0.042161	0.805584	0.63069	0.378414	0.343539
22_48	10/19/20	34	770	804	0.19	7.8	130	130	0.12	0.155	3507	0.039528	0.802045	0.627157	0.376294	0.411912
22_49	11/6/20	50	1000	1050	0.18	8.6	120	120	0.15	0.165	3525	0.038878	0.801138	0.626259	0.375755	0.439116
22_50	12/22/20	32	810	842	0.17	15	270	285	0.13	0.15	3571	0.037265	0.798823	0.623982	0.374389	0.400653
22_51	5/19/21	8.3	150	150	0.12	43	940	983	0.09	0.105	3719	0.032515	0.791421	0.616828	0.370097	0.28371
22_52	6/4/21	5.4	110	110	0.18	34	990	1024	0.13	0.155	3735	0.032039	0.790625	0.616069	0.369642	0.419325
22_53	8/28/21	31	540	571	0.17	8.1	120	120	0.12	0.145	3820	0.029626	0.786409	0.612086	0.367251	0.394825
22_54	10/15/21	38	990	1028	0.15	7.1	99	99	0.11	0.13	3868	0.028345	0.784038	0.609869	0.365921	0.355267
22_55	11/13/21	16	370	386	0.17	6.3	110	110	0.12	0.145	3897	0.027597	0.78261	0.608541	0.365125	0.397125
22_56	12/6/21	24	720	744	0.18	8.6	130	130	0.12	0.15	3920	0.027019	0.781478	0.607493	0.364496	0.411527
22_57	5/11/22	36	1400	1436	0.17	7.6	220	220	0.12	0.145	4076	0.023402	0.773848	0.600517	0.36031	0.402431
22_58	6/8/22	14	550	564	0.1	8.4	95	103.4	0.14	0.12	4104	0.022806	0.772486	0.599288	0.359573	0.33373
22_59	8/3/22	31	840	871	0.16	8.7	140	140	0.12	0.14	4160	0.021659	0.76977	0.596848	0.358109	0.390943
22_60	10/5/22	48	1500	1548	0.11	9.7	110	110	0.12	0.115	4223	0.020438	0.766725	0.594134	0.35648	0.322598
22_61	11/4/22	35	1300	1335	0.19	9.6	86	86	0.12	0.155	4253	0.019881	0.76528	0.592852	0.355711	0.435747
22_62	12/7/22	21	790	811	0.17	7.3	230	230	0.11	0.14	4286	0.019286	0.763693	0.59145	0.35487	0.39451
22_63	5/15/23	11	600	611	0.11	7.7	84	84	0.14	0.125	4445	0.016658	0.756093	0.584806	0.350883	0.356244
22_64	6/23/23	30	1300	1330	0.14	7.6	150	150	0.12	0.13	4484	0.01607	0.754241	0.583202	0.349921	0.371512
22_65	8/29/23	22	1500	1522	0.13	9.6	100	100	0.11	0.12	4551	0.015108	0.751069	0.580471	0.348283	0.344548
22_66	10/24/23	22	1100	1122	0.13	7.6	120	120	0.1	0.115	4607	0.014349	0.748428	0.57821	0.346926	0.331483
22_67	11/29/23	16	920	936	0.17	7.8	130	130	0.11	0.14	4643	0.01388	0.746735	0.576767	0.34606	0.404554
22_68	12/26/23	8.9	690	690	0.14	8.2	140	140	0.12	0.13	4670	0.013539	0.745468	0.575689	0.345413	0.376361
22_69	5/21/24	13	720	733	0.13	7.8	110	110	0.12	0.125	4817	0.011825	0.738607	0.569895	0.341937	0.365564
22_70	6/19/24	8.1	590	590	0.12	7.4	130	130	0.12	0.12	4846	0.011513	0.737261	0.568766	0.34126	0.351638
22_71	8/15/24	13	1000	1013	0.14	6.9	230	230	0.1	0.12	4903	0.010924	0.734622	0.56656	0.339936	0.353008

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
23_1	11/21/11	16000	20000	36000	1.75					1.75	252	0.792827	0.984274	1.001534	1.752685	0.998468
23_2	1/6/12	1700	2200	3900	1.68					1.68	298	0.759932	0.98143	0.989106	1.730936	0.970573
23_3	3/4/12	790	1000	1790	1.12					1.12	356	0.720393	0.977856	0.974049	1.704585	0.657051
23_4	6/13/12	18	1600	2500	1.69					1.69	457	0.656389	0.971664	0.949361	1.661383	1.017225
23_5	7/3/12	16	1200	2000	1.8					1.8	477	0.644406	0.970442	0.944692	1.653211	1.08879
23_6	7/26/12	18	1500	2400	1.73					1.73	500	0.630896	0.969039	0.939407	1.643963	1.052335
23_7	10/18/12	14	960	1700	1.683					1.683	584	0.583916	0.963933	0.920857	1.6115	1.044369
23_8	11/15/12	19	1400	2500	1.28	23	2000	3500	1.02	1.15	612	0.569047	0.962237	0.914924	1.601117	0.718248
23_9	12/26/12	14	990	1800	1.24	20	1900	3600	0.99	1.115	653	0.547954	0.959758	0.906453	1.586293	0.702896
23_10	2/5/13	15	1100	2000	1.17	19	1300	2500	0.89	1.03	694	0.527644	0.957286	0.898231	1.571904	0.655256
23_11	5/20/13	910	1900	2810	1.148	580	1100	1680	0.814	0.981	798	0.479438	0.951045	0.878428	1.537249	0.638153
23_12	6/24/13	820	1600	2420	0.814	570	1200	1770	0.806	0.81	833	0.464226	0.948953	0.872085	1.52615	0.530747
23_13	8/27/13	860	1900	2760	0.9	1300	2800	4100	0.73	0.815	897	0.437647	0.945141	0.860883	1.506544	0.540973
23_14	10/1/13	1400	3300	4700	0.916	1000	2400	3400	0.674	0.795	932	0.423761	0.943062	0.854963	1.496186	0.531351
23_15	12/6/13	1200	2900	4100	0.858	1300	2900	4200	0.732	0.795	998	0.398763	0.939156	0.84418	1.477316	0.538138
23_16	2/7/14	260	650	910	0.86	500	1300	1800	0.656	0.758	1061	0.376279	0.935441	0.834328	1.460075	0.519152
23_17	5/13/14	1100	3000	4100	0.89	910	2500	3410	0.74	0.815	1156	0.344748	0.929868	0.820233	1.435408	0.567783
23_18	6/6/14	500	1400	1900	0.91	1400	4100	5500	0.66	0.785	1180	0.337209	0.928466	0.816809	1.429416	0.549175
23_19	8/13/14	790	2400	3190	0.79	730	2300	3030	0.61	0.7	1248	0.316733	0.924503	0.807392	1.412937	0.495422
23_20	10/10/14	380	1400	1780	0.8	1100	3300	4400	0.61	0.705	1306	0.300254	0.921136	0.799678	1.399436	0.503774
23_21	12/12/14	1100	3500	4600	0.75	1300	4500	5800	0.61	0.68	1369	0.283324	0.917493	0.791611	1.385319	0.490862
23_22	2/10/15	640	2300	2940	0.75	780	2700	3480	0.55	0.65	1429	0.268089	0.914037	0.784215	1.372376	0.473631
23_23	5/19/15	3100	11000	14100	0.6	3800	14000	17800	0.47	0.535	1527	0.244946	0.90842	0.772699	1.352223	0.395645
23_24	6/11/15	960	3700	4660	0.62	1800	6600	8400	0.51	0.565	1550	0.23981	0.907107	0.770092	1.347662	0.419245
23_25	8/8/15	1300	5400	6700	0.59	490	2000	2490	0.49	0.54	1608	0.227333	0.903804	0.763673	1.336428	0.404062
23_26	10/13/15	570	2300	2870	0.32	740	3000	3740	0.34	0.33	1674	0.213923	0.900059	0.756625	1.324093	0.249227
23_27	12/18/15	760	3400	4160	0.31	820	3800	4620	0.31	0.31	1740	0.201304	0.896331	0.749835	1.312211	0.236242
23_28	2/13/16	720	3500	4220	0.31	730	3600	4330	0.29	0.3	1797	0.191006	0.893123	0.744168	1.302293	0.230363
23_29	5/20/16	180	840	1020	0.3	210	1200	1410	0.29	0.295	1894	0.174678	0.88769	0.734916	1.286104	0.229375
23_30	6/20/16	500	2800	3300	0.25	470	2600	3070	0.24	0.245	1925	0.16976	0.885961	0.732059	1.281103	0.191242
23_31	8/25/16	580	3400	3980	0.29	350	2200	2550	0.27	0.28	1991	0.159746	0.882291	0.726125	1.270719	0.220348
23_32	10/10/16	310	1700	2010	0.23	260	1800	2060	0.22	0.225	2037	0.153118	0.879741	0.722106	1.263686	0.178051
23_33	12/18/16	210	1500	1710	0.27	120	800	920	0.22	0.245	2106	0.143688	0.875931	0.716248	1.253433	0.195463
23_34	2/21/17	150	1100	1250	0.25	160	1200	1360	0.23	0.24	2171	0.135337	0.872358	0.710906	1.244086	0.192913
23_35	5/7/17	140	960	1100	0.25	91	670	761	0.26	0.255	2246	0.126302	0.868252	0.704944	1.233652	0.206703
23_36	6/14/17	190	1400	1590	0.23	140	1000	1140	0.22	0.225	2284	0.121957	0.866179	0.702001	1.228502	0.18315
23_37	8/1/17	360	2800	3160	0.19	410	3100	3510	0.22	0.205	2332	0.116681	0.863568	0.698356	1.222123	0.167741
23_38	10/9/17	94	760	854	0.19	69	650	719	0.21	0.2	2401	0.109495	0.859828	0.69325	1.213188	0.164855
23_39	12/2/17	34	370	404	0.22	190	1500	1690	0.24	0.23	2455	0.104182	0.856912	0.68936	1.20638	0.190653
23_40	2/10/18	47	410	457	0.22	140	1400	1540	0.22	0.22	2525	0.097675	0.853148	0.684447	1.197782	0.183673
23_41	5/6/18	180	1800	1980	0.2	210	2000	2210	0.22	0.21	2610	0.090319	0.848599	0.678668	1.187669	0.176817
23_42	6/3/18	190	1900	2090	0.15	200	2000	2200	0.17	0.16	2638	0.088019	0.847105	0.676807	1.184412	0.135088
23_43	8/12/18	260	3000	3260	0.17	250	2700	2950	0.19	0.18	2708	0.082522	0.843384	0.672241	1.176422	0.153006
23_44	10/2/18	110	1300	1410	0.22	200	2400	2600	0.23	0.225	2759	0.078735	0.840683	0.668991	1.170733	0.192187
23_45	11/8/18	92	1000	1092	0.19	160	1800	1960	0.24	0.215	2796	0.076096	0.838728	0.66667	1.166673	0.184285
23_46	12/2/18	30	320	350	0.14	240	2800	3040	0.21	0.175	2820	0.074432	0.837463	0.665182	1.164069	0.150335
23_47	5/3/19	110	1500	1610	0.19	160	2300	2460	0.19	0.19	2972	0.064706	0.829494	0.656044	1.148076	0.165494
23_48	6/7/19	130	1400	1530	0.22	140	2100	2240	0.26	0.24	3007	0.062653	0.82767	0.654006	1.14451	0.209697
23_49	8/8/19	82	1400	1482	0.18	130	1900	2030	0.2	0.19	3069	0.059175	0.824449	0.650452	1.138292	0.166917
23_50	10/5/19	55	760	815	0.19	53	760	813	0.22	0.205	3127	0.056096	0.821447	0.647192	1.132586	0.181002
23_51	11/7/19	87	1300	1387	0.18	120	1900	2020	0.22	0.2	3160	0.054417	0.819743	0.645363	1.129385	0.177088
23_52	12/3/19	66	1100	1166	0.18	69	1100	1169	0.24	0.21	3186	0.053129	0.818404	0.643935	1.126886	0.186354
23_53	8/7/20	39	750	789	0.17	7.7	140	147.7	0.15	0.16	3434	0.042277	0.805736	0.630843	1.103976	0.144931
23_54	10/9/20	26	550	576	0.14	52	1100	1152	0.16	0.15	3497	0.039894	0.80255	0.627658	1.098401	0.136562
23_55	11/23/20	14	290	304	0.15	7.3	89	89	0.18	0.165	3542	0.038274	0.800281	0.625414	1.094475	0.150757
23_56	12/17/20	29	590	619	0.16	52	1300	1352	0.21	0.185	3566	0.037437	0.799074	0.624228	1.092399	0.169352
23_57	5/19/21	8.2	23	23	0.09	77	1500	1577	0.1	0.095	3719	0.032515	0.791421	0.616828	1.079449	0.088008
23_58	6/5/21	6.7	19	19	0.16	8.8	160	160	0.17	0.165	3736	0.03201	0.790575	0.616022	1.078039	0.153056
23_59	8/4/21	45	1300	1345	0.15	65	2000	2065	0.18	0.165	3796	0.030288	0.787597	0.613203	1.073105	0.153759
23_60	10/18/21	40	1200	1240	0.14	6.1	59	59	0.15	0.145	3871	0.028266	0.783891	0.609731	1.06703	0.135891
23_61	11/13/21	26	690	716	0.15	56	1600	1656	0.15	0.15	3897	0.027597	0.78261	0.608541	1.064947	0.140852
23_62	12/6/21	31	860	891	0.15	8.8	54	54	0.16	0.155	3920	0.027019	0.781478	0.607493	1.063114	0.145798
23_63	5/10/22	55	1900	1955	0.13	76	2500	2576	0.17	0.15	4075	0.023424	0.773896	0.600561	1.050982	0.142724
23_64	6/8/22	13	600	613	0.1	14	540	554	0.13	0.115	4104	0.022806	0.772486	0.599288	1.048753	0.109654
23_65	8/3/22	37	1300	1337	0.14	8.6	140	140	0.17	0.155	4160	0.021659	0.76977	0.596848	1.044484	0.148399
23_66	10/5/22	41	1500	1541	0.16	8.3	190	190	0.14	0.15	4223	0.020438	0.766725	0.594134	1.039734	0.144268
23_67	11/4/22	25	1200	1225	0.16	41	1300	1341	0.16	0.16	4253	0.019881	0.76528	0.592852	1.037491	0.154218
23_68	12/6/22	72	2400	2472	0.1	50	1800	1850	0.15	0.125	4285	0.019303	0.763741	0.591493	1.035112	0.12076
23_69	5/29/23	42	1700	1742	0.12	19	670	689	0.16	0.14	4459	0.016444	0.755428	0.584229	1.022401	0.136933
23_70	6/30/23	9.4	110	110	0.13	8.8	200	200	0.14	0.135	4491	0.015967	0.753909	0.582916	1.020103	0.13234
23_71	8/29/23	23	1100	1123	0.12	21	1300	1321	0.17	0.145	4551	0.015108	0.751069	0.580471	1.015825	0.142741
23_72	10/24/23	23	920	943	0.15	17	960	977	0.17	0.16	4607	0.014349	0.748428	0.57821	1.011868	0.158123
23_73	11/27/23	9.2	57	57	0.15	8.4	160	160	0.16	0.155	4641	0.013906	0.746829	0.576847	1.009481	0.153544
23_74	12/25/23	8.6	130	130	0.15	9.3	270	270	0.2	0.175	4669	0.013552	0.745515	0.575729	1.007525	0.173693
23_75	5/17/24	8.3	380	380	0.15	8.9	330	330	0.16	0.155	4813	0.011868	0.738793	0.570051	0.99759	0.155375
23_76	6/26/24	8.7	380	380	0.13	9.3	850	859.3	0.15	0.14	4853	0.011439	0.736936	0.568494	0.994865	0.140723
23_77	8/16/24	8.5	160	160	0.14	8.7	110	110	0.14	0.14	4904	0.010914	0.734576	0.566521	0.991412	0.141213

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
24_1	11/21/11	21000	29000	50000	5.72					5.72	252	0.792827	0.984274	1.001534	5.728776	0.998468
24_2	1/6/12	20000	29000	49000	5.92					5.92	298	0.759932	0.98143	0.989106	5.657687	1.046364
24_3	3/4/12	5700	8600	14300	4.95					4.95	356	0.720393	0.977856	0.974049	5.571558	0.888441
24_4	6/14/12	51	13000	21000	5.05					5.05	458	0.655784	0.971603	0.949126	5.429003	0.930189
24_5	7/4/12	44	11000	19000	3.81					3.81	478	0.643812	0.970381	0.94446	5.402312	0.705254
24_6	10/23/12	59	18000	33000	4.17	83	33000	61000	10.04	7.105	589	0.581232	0.96363	0.919789	5.26119	1.350455
24_7	11/20/12	61	18000	34000	3.92	86	43000	83000	8.97	6.445	617	0.566432	0.961934	0.913878	5.22738	1.232931
24_8	12/18/12	38	6700	13000	3.88	80	40000	81000	8.99	6.435	645	0.552008	0.960241	0.908086	5.194254	1.238869
24_9	5/20/13	21000	47000	68000	6.98	17000	37000	54000	7.08	7.03	798	0.479438	0.951045	0.878428	5.024607	1.399114
24_10	6/25/13	6800	16000	22800	2.72	26000	60000	86000	8.002	5.361	834	0.463798	0.948894	0.871907	4.987305	1.074929
24_11	8/27/13	26000	62000	88000	5.812	26000	63000	89000	6.44	6.126	897	0.437647	0.945141	0.860883	4.924248	1.244048
24_12	10/1/13	17000	43000	60000	6.056	19000	47000	66000	7.186	6.621	932	0.423761	0.943062	0.854963	4.890389	1.35388
24_13	12/6/13	25000	66000	91000	5.746	16000	42000	58000	6.818	6.282	998	0.398763	0.939156	0.84418	4.828712	1.300968
24_14	5/14/14	14000	42000	56000	5.01	28000	88000	116000	6.47	5.74	1157	0.34443	0.92981	0.820089	4.690911	1.223643
24_15	6/10/14	13000	38000	51000	5.15	11000	33000	44000	6.36	5.755	1184	0.335969	0.928232	0.816244	4.668914	1.232621
24_16	8/8/14	31000	100000	131000	5.38	11000	36000	47000	6.5	5.94	1243	0.318196	0.924794	0.808071	4.622165	1.285112
24_17	10/10/14	12000	41000	53000	5.25	20000	69000	89000	6.04	5.645	1306	0.300254	0.921136	0.799678	4.574156	1.234107
24_18	12/5/14	14000	49000	63000	5.34	15000	53000	68000	5.72	5.53	1362	0.285157	0.917897	0.792491	4.533051	1.219929
24_19	2/5/15	23000	89000	112000	4.82	13000	51000	64000	5.47	5.145	1424	0.269326	0.914325	0.784821	4.489175	1.14609
24_20	5/21/15	9100	34000	43100	4.2	5500	22000	27500	4.64	4.42	1529	0.244495	0.908306	0.772471	4.418533	1.000332
24_21	6/12/15	23000	91000	114000	4.25	18000	70000	88000	4.37	4.31	1551	0.23959	0.90705	0.76998	4.404284	0.978593
24_22	8/26/15	25000	100000	125000	3.6	8600	36000	44600	4.33	3.965	1626	0.223595	0.902781	0.761724	4.357063	0.910017
24_23	10/13/15	16000	66000	82000	3.78	13000	57000	70000	4.13	3.955	1674	0.213923	0.900059	0.756625	4.327894	0.913839
24_24	12/18/15	10000	49000	59000	3.52	15000	71000	86000	4.43	3.975	1740	0.201304	0.896331	0.749835	4.289056	0.926777
24_25	2/13/16	9700	48000	57700	3.43	14000	70000	84000	4.19	3.81	1797	0.191006	0.893123	0.744168	4.256639	0.895072
24_26	5/20/16	10000	54000	64000	3.42	10000	56000	66000	3.97	3.695	1894	0.174678	0.88769	0.734916	4.203722	0.878983
24_27	6/20/16	180000	990000	1170000	2.81	18000	100000	118000	3.69	3.25	1925	0.16976	0.885961	0.732059	4.187375	0.776143
24_28	8/5/16	8200	47000	55200	2.86	15000	84000	99000	3.82	3.34	1971	0.162717	0.883401	0.727902	4.163599	0.802191
24_29	10/23/16	10000	64000	74000	2.94	6700	42000	48700	3.41	3.175	2050	0.151295	0.879022	0.720987	4.124046	0.769875
24_30	12/19/16	4700	31000	35700	2.93	5800	37000	42800	3.24	3.085	2107	0.143556	0.875876	0.716164	4.096459	0.753089
24_31	2/6/17	8800	60000	68800	2.67	5400	37000	42400	3.17	2.92	2156	0.13722	0.873181	0.712124	4.073349	0.716855
24_32	5/12/17	3400	24000	27400	2.29	5800	43000	48800	3.12	2.705	2251	0.125721	0.867979	0.704554	4.030048	0.671208
24_33	6/20/17	2400	17000	19400	2.07	5000	36000	41000	2.66	2.365	2290	0.121284	0.865852	0.701541	4.012817	0.589362
24_34	8/24/17	2300	19000	21300	1.89	5200	43000	48200	2.79	2.34	2355	0.114235	0.862319	0.696637	3.984784	0.587237
24_35	10/28/17	3000	26000	29000	2.01	4800	41000	45800	2.57	2.29	2420	0.107595	0.858801	0.691871	3.957504	0.578648
24_36	12/14/17	2900	27000	29900	2.2	7800	69000	76800	2.83	2.515	2467	0.103036	0.856266	0.688508	3.938263	0.638606
24_37	2/13/18	8600	77000	85600	2.42	5500	49000	54500	2.67	2.545	2528	0.097406	0.852987	0.68424	3.913851	0.650255
24_38	5/28/18	3300	36000	39300	2.32	5500	62000	67500	2.33	2.325	2632	0.088507	0.847425	0.677204	3.873605	0.600216
24_39	6/17/18	4000	42000	46000	1.71	5400	59000	64400	2.35	2.03	2652	0.086891	0.84636	0.675884	3.866054	0.525083
24_40	8/24/18	7100	79000	86100	2.23	4300	46000	50300	2.28	2.255	2720	0.081615	0.842747	0.671471	3.840813	0.587115
24_41	10/17/18	3600	38000	41600	2.39	5400	62000	67400	3.21	2.8	2774	0.077654	0.83989	0.668046	3.821224	0.732749
24_42	11/16/18	2500	32000	34500	2.31	4100	48000	52100	3.04	2.675	2804	0.075537	0.838306	0.666173	3.810509	0.702006
24_43	12/16/18	2800	34000	36800	2.28	3500	42000	45500	3.17	2.725	2834	0.073478	0.836726	0.66432	3.79991	0.717122
24_44	5/12/19	1800	25000	26800	2.17	3200	43000	46200	2.8	2.485	2981	0.064172	0.829025	0.655517	3.749559	0.662745
24_45	6/9/19	1800	26000	27800	2.03	4400	62000	66400	2.75	2.39	3009	0.062538	0.827566	0.65389	3.74025	0.638995
24_46	8/17/19	780	12000	12780	1.62	3600	55000	58600	2.87	2.245	3078	0.058686	0.823982	0.649943	3.717671	0.603873
24_47	10/30/19	500	7900	8400	1.29	2000	31000	33000	1.67	1.48	3152	0.054819	0.820156	0.645804	3.694001	0.40065
24_48	11/17/19	2600	41000	43600	1.25	1100	20000	21100	1.87	1.56	3170	0.053918	0.819228	0.644812	3.688325	0.422956
24_49	12/15/19	1400	23000	24400	1.21	1300	21000	22300	1.88	1.545	3198	0.052545	0.817786	0.643279	3.679557	0.419887
24_50	8/18/20	20	440	460	0.56	200	3500	3700	1.3	0.93	3445	0.041851	0.805179	0.630283	3.60522	0.257959
24_51	10/19/20	140	3500	3640	0.59	180	4300	4480	1.4	0.995	3507	0.039528	0.802045	0.627157	3.587338	0.277364
24_52	11/25/20	650	16000	16650	0.61	72	1500	1572	1.51	1.06	3544	0.038203	0.800181	0.625315	3.576802	0.296354
24_53	12/16/20	88	1900	1988	0.61	120	3000	3120	1.65	1.13	3565	0.037471	0.799125	0.624277	3.570866	0.31645
24_54	5/19/21	110	2800	2910	0.36	54	1400	1454	1.07	0.715	3719	0.032515	0.791421	0.616828	3.528255	0.20265
24_55	6/5/21	53	1700	1753	0.59	48	1700	1748	1.52	1.055	3736	0.03201	0.790575	0.616022	3.523646	0.299406
24_56	8/4/21	67	2100	2167	0.5	590	18000	18590	1.31	0.905	3796	0.030288	0.787597	0.613203	3.507521	0.258017
24_57	10/18/21	45	1200	1245	0.55	140	4800	4940	1.51	1.03	3871	0.028266	0.783891	0.609731	3.487664	0.295327
24_58	11/15/21	14	560	574	0.55	640	21000	21640	1.58	1.065	3899	0.027547	0.782511	0.60845	3.480332	0.306005
24_59	12/7/21	19	510	529	0.51	320	11000	11320	1.49	1	3921	0.026994	0.781429	0.607448	3.474603	0.287803
24_60	5/11/22	39	1500	1539	0.55	67	1900	1967	1.47	1.01	4076	0.023402	0.773848	0.600517	3.434958	0.294036
24_61	6/9/22	38	2000	2038	0.54	73	3400	3473	1.48	1.01	4105	0.022785	0.772437	0.599244	3.427674	0.29466
24_62	8/3/22	320	13000	13320	0.55	66	2700	2766	1.39	0.97	4160	0.021659	0.76977	0.596848	3.413971	0.284127
24_63	10/5/22	79	3100	3179	0.52	920	37000	37920	1.48	1	4223	0.020438	0.766725	0.594134	3.398445	0.294252
24_64	11/25/22	59	2200	2259	0.5	130	5900	6030	1.4	0.95	4274	0.0195	0.76427	0.591959	3.386006	0.280567
24_65	12/12/22	42	2100	2142	0.44	270	13000	13270	0.91	0.675	4291	0.019197	0.763453	0.591239	3.381885	0.199593
24_66	5/29/23	39	2400	2439	0.47	100	5000	5100	1.2	0.835	4459	0.016444	0.755428	0.584229	3.34179	0.249866
24_67	6/19/23	140	6700	6840	0.46	370	20000	20370	1.11	0.785	4480	0.016129	0.754431	0.583366	3.336856	0.235251
24_68	8/29/23	41	2500	2541	0.33	380	22000	22380	0.93	0.63	4551	0.015108	0.751069	0.580471	3.320296	0.189742
24_69	10/24/23	86	5300	5386	0.43	310	19000	19310	1.23	0.83	4607	0.014349	0.748428	0.57821	3.307362	0.250955
24_70	11/27/23	15	910	925	0.42	230	13000	13230	1.33	0.875	4641	0.013906	0.746829	0.576847	3.299562	0.265187
24_71	12/25/23	34	2800	2834	0.45	290	18000	18290	1.37	0.91	4669	0.013552	0.745515	0.575729	3.293169	0.27633
24_72	5/9/24	59	4600	4659	0.36	370	24000	24370	1.27	0.815	4805	0.011956	0.739165	0.570364	3.26248	0.24981
24_73	6/26/24	6.9	650	650	0.3	330	27000	27330	1.06	0.68	4853	0.011439	0.736936	0.568494	3.251787	0.209116
24_74	8/16/24	23	1300	1323	0.3	770	61000	61770	0.84	0.57	4904	0.010914	0.734576	0.566521	3.240502	0.175899

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
25_1	11/21/11					2200	2900	5100	0.88	0.88	252	0.792827	0.984274	1.001534	0.88135	0.998468
25_2	1/6/12					2300	3100	5400	0.84	0.84	298	0.759932	0.98143	0.989106	0.870413	0.965059
25_3	3/4/12					880	1200	2080	0.71	0.71	356	0.720393	0.977856	0.974049	0.857163	0.828314
25_4	6/14/12					20	2400	3700	1.01	1.01	458	0.655784	0.971603	0.949126	0.835231	1.209246
25_5	7/3/12					18	2100	3200	0.85	0.85	477	0.644406	0.970442	0.944692	0.831329	1.022459
25_6	7/26/12					14	1300	2100	0.65	0.65	500	0.630896	0.969039	0.939407	0.826679	0.786279
25_7	8/28/12					14	940	1500	0.65	0.65	533	0.612005	0.96703	0.931982	0.820144	0.792544
25_8	9/19/12					13	890	1600	0.57	0.57	555	0.599726	0.965693	0.927131	0.815876	0.698636
25_9	11/15/12	16	1300	2400	0.67	15	950	1700	0.65	0.66	612	0.569047	0.962237	0.914924	0.805133	0.81974
25_10	12/26/12	12	580	1100	0.68	9.7	420	720	0.65	0.665	653	0.547954	0.959758	0.906453	0.797679	0.833669
25_11	5/20/13	9300	19000	28300	3.736	600	1300	1900	7.08	5.408	798	0.479438	0.951045	0.878428	0.773017	6.99597
25_12	6/25/13	2700	5600	8300	0.662	770	1700	2470	0.636	0.649	834	0.463798	0.948894	0.871907	0.767278	0.845848
25_13	8/30/13	5600	13000	18600	0.494	610	1300	1910	1.496	0.995	900	0.436439	0.944963	0.86037	0.757125	1.314182
25_14	10/1/13	3600	8100	11700	1.532	670	1600	2270	0.528	1.03	932	0.423761	0.943062	0.854963	0.752368	1.369012
25_15	12/6/13	5000	12000	17000	1.544	920	2300	3220	0.57	1.057	998	0.398763	0.939156	0.84418	0.742879	1.422843
25_16	5/14/14	580	1700	2280	0.69	560	1600	2160	0.48	0.585	1157	0.34443	0.92981	0.820089	0.721679	0.81061
25_17	6/10/14	4200	12000	16200	1.2	920	2600	3520	0.56	0.88	1184	0.335969	0.928232	0.816244	0.718295	1.225124
25_18	8/8/14	3700	11000	14700	3	230	700	930	0.58	1.79	1243	0.318196	0.924794	0.808071	0.711102	2.517219
25_19	10/10/14	5200	17000	22200	3.21	1100	3500	4600	0.55	1.88	1306	0.300254	0.921136	0.799678	0.703716	2.671531
25_20	12/5/14	5000	16000	21000	3.05	810	2700	3510	0.49	1.77	1362	0.285157	0.917897	0.792491	0.697392	2.538026
25_21	2/6/15	3500	12000	15500	2.53	450	1500	1950	0.53	1.53	1425	0.269078	0.914267	0.784699	0.690535	2.215672
25_22	5/21/15	400	1500	1900	0.41	400	1600	2000	0.43	0.42	1529	0.244495	0.908306	0.772471	0.679774	0.617852
25_23	6/12/15	480	1700	2180	0.34	160	570	730	0.41	0.375	1551	0.23959	0.90705	0.76998	0.677582	0.553438
25_24	8/26/15	500	2100	2600	0.26	86	390	476	0.35	0.305	1626	0.223595	0.902781	0.761724	0.670317	0.455008
25_25	10/15/15	700	3000	3700	0.27	380	1700	2080	0.35	0.31	1676	0.213529	0.899946	0.756415	0.665645	0.465713
25_26	12/15/15	580	2600	3180	0.28	180	740	920	0.34	0.31	1737	0.201861	0.8965	0.750138	0.660122	0.46961
25_27	2/13/16	610	2900	3510	0.29	350	1600	1950	0.31	0.3	1797	0.191006	0.893123	0.744168	0.654868	0.458108
25_28	5/14/16	220	980	1200	0.3	460	2500	2960	0.31	0.305	1888	0.175646	0.888025	0.735475	0.647218	0.471248
25_29	6/21/16	310	1800	2110	0.19	130	780	910	0.3	0.245	1926	0.169604	0.885905	0.731967	0.644131	0.380357
25_30	8/26/16	590	3200	3790	0.24	150	840	990	0.25	0.245	1992	0.159599	0.882235	0.726037	0.638912	0.383464
25_31	10/10/16	400	2200	2600	0.24	220	1300	1520	0.2	0.22	2037	0.153118	0.879741	0.722106	0.635453	0.346209
25_32	12/18/16	370	2300	2670	0.26	180	1200	1380	0.21	0.235	2106	0.143688	0.875931	0.716248	0.630298	0.37284
25_33	2/19/17	98	550	648	0.23	140	980	1120	0.26	0.245	2169	0.135586	0.872467	0.711068	0.62574	0.391537
25_34	5/7/17	54	440	494	0.22	220	1700	1920	0.25	0.235	2246	0.126302	0.868252	0.704944	0.620351	0.378818
25_35	6/14/17	140	1100	1240	0.22	220	1700	1920	0.21	0.215	2284	0.121957	0.866179	0.702001	0.617761	0.348031
25_36	8/3/17	190	1500	1690	0.2	100	920	1020	0.19	0.195	2334	0.116467	0.863459	0.698206	0.614421	0.317372
25_37	10/9/17	240	2000	2240	0.2	120	1100	1220	0.19	0.195	2401	0.109495	0.859828	0.69325	0.61006	0.31964
25_38	12/2/17	490	4200	4690	0.21	66	590	656	0.24	0.225	2455	0.104182	0.856912	0.68936	0.606637	0.370897
25_39	2/10/18	430	3800	4230	0.22	44	470	514	0.19	0.205	2525	0.097675	0.853148	0.684447	0.602313	0.340354
25_40	5/5/18	290	2700	2990	0.24	60	610	670	0.25	0.245	2609	0.090402	0.848652	0.678735	0.597287	0.410188
25_41	6/3/18	430	4500	4930	0.19	190	2300	2490	0.2	0.195	2638	0.088019	0.847105	0.676807	0.59559	0.327407
25_42	8/12/18	200	2000	2200	0.2	120	1400	1520	0.21	0.205	2708	0.082522	0.843384	0.672241	0.591572	0.346534
25_43	10/5/18	260	2800	3060	0.23	110	1300	1410	0.26	0.245	2762	0.078517	0.840524	0.668801	0.588545	0.416281
25_44	11/7/18	230	2500	2730	0.22	64	730	794	0.26	0.24	2795	0.076166	0.838781	0.666733	0.586725	0.40905
25_45	12/2/18	300	3700	4000	0.23	57	740	797	0.25	0.24	2820	0.074432	0.837463	0.665182	0.58536	0.410004
25_46	5/3/19	150	1900	2050	0.2	5.8	89	94.8	0.15	0.175	2972	0.064706	0.829494	0.656044	0.577318	0.303126
25_47	6/7/19	220	2800	3020	0.19	5.6	62	67.6	0.16	0.175	3007	0.062653	0.82767	0.654006	0.575525	0.30407
25_48	8/14/19	31	400	431	0.14	7	72	72	0.15	0.145	3075	0.058849	0.824138	0.650112	0.572099	0.253453
25_49	10/6/19	92	1400	1492	0.25	6.7	83	89.7	0.09	0.17	3128	0.056045	0.821395	0.647136	0.56948	0.298518
25_50	11/10/19	40	650	690	0.3	240	3700	3940	0.14	0.22	3163	0.054266	0.819589	0.645197	0.567774	0.387478
25_51	12/1/19	420	6800	7220	0.33	140	2500	2640	0.14	0.235	3184	0.053227	0.818507	0.644044	0.566759	0.414638
25_52	8/9/20	140	2700	2840	0.3	130	2600	2730	0.09	0.195	3436	0.0422	0.805635	0.630741	0.555052	0.351318
25_53	10/4/20	72	1500	1572	0.36	140	2800	2940	0.12	0.24	3492	0.040078	0.802802	0.627909	0.55256	0.434342
25_54	11/8/20	69	1400	1469	0.31	7.3	54	54	0.06	0.185	3527	0.038806	0.801037	0.626159	0.55102	0.335741
25_55	12/6/20	34	820	854	0.35	6	59	59	0.08	0.215	3555	0.037818	0.799627	0.624771	0.549798	0.391053
25_56	5/18/21	20	570	590	0.06	9.2	49	49	0.06	0.06	3718	0.032545	0.791471	0.616875	0.54285	0.110528
25_57	6/5/21	31	630	661	0.33	6.7	63	63	0.1	0.215	3736	0.03201	0.790575	0.616022	0.542099	0.396606
25_58	8/5/21	9.5	110	110	0.1	13	300	313	0.08	0.09	3797	0.030261	0.787548	0.613156	0.539577	0.166797
25_59	10/22/21	30	850	880	0.15	60	1900	1960	0.19	0.17	3875	0.028162	0.783693	0.609548	0.536402	0.316926
25_60	11/15/21	19	570	589	0.15	58	1700	1758	0.19	0.17	3899	0.027547	0.782511	0.60845	0.535436	0.317498
25_61	12/7/21	31	670	701	0.27	59	1900	1959	0.18	0.225	3921	0.026994	0.781429	0.607448	0.534554	0.420911
25_62	5/11/22	69	2000	2069	0.28	63	1900	1963	0.13	0.205	4076	0.023402	0.773848	0.600517	0.528455	0.387923
25_63	6/8/22	5.5	190	195.5	0.1	9.9	410	410	0.06	0.08	4104	0.022806	0.772486	0.599288	0.527373	0.151695
25_64	8/3/22	12	420	432	0.22	83	2700	2783	0.1	0.16	4160	0.021659	0.76977	0.596848	0.525226	0.304631
25_65	10/5/22	11	480	491	0.11	58	2000	2058	0.08	0.095	4223	0.020438	0.766725	0.594134	0.522838	0.181701
25_66	11/4/22	7.8	200	200	0.09	24	920	944	0.14	0.115	4253	0.019881	0.76528	0.592852	0.52171	0.220429
25_67	12/12/22	8.8	310	310	0.17	29	1400	1429	0.18	0.175	4291	0.019197	0.763453	0.591239	0.52029	0.336351
25_68	5/31/23	35	1800	1835	0.18	5.5	120	125.5	0.08	0.13	4461	0.016414	0.755333	0.584147	0.514049	0.252894
25_69	6/19/23	14	910	924	0.16	36	1200	1236	0.15	0.155	4480	0.016129	0.754431	0.583366	0.513362	0.301931
25_70	8/29/23	48	2100	2148	0.15	33	1600	1633	0.15	0.15	4551	0.015108	0.751069	0.580471	0.510815	0.293649
25_71	10/24/23	22	1800	1822	0.23	23	1100	1123	0.18	0.205	4607	0.014349	0.748428	0.57821	0.508825	0.402889
25_72	11/27/23	24	1800	1824	0.23	22	1000	1022	0.16	0.195	4641	0.013906	0.746829	0.576847	0.507625	0.384142
25_73	12/25/23	70	3900	3970	0.25	17	910	927	0.18	0.215	4669	0.013552	0.745515	0.575729	0.506641	0.424363
25_74	5/9/24	32	1800	1832	0.19	21	1600	1621	0.15	0.17	4805	0.011956	0.739165	0.570364	0.50192	0.338699
25_75	6/26/24	46	2800	2846	0.18	11	590	601	0.07	0.125	4853	0.011439	0.736936	0.568494	0.500275	0.249863
25_76	8/16/24	52	3300	3352	0.2	5.7	140	140	0.07	0.135	4904	0.010914	0.734576	0.566521	0.498539	0.270791

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
26_1	11/21/11					6400	7900	14300	4.71	4.71	252	0.792827	0.984274	1.001534	4.717226	0.998468
26_2	1/6/12					16000	20000	36000	4.67	4.67	298	0.759932	0.98143	0.989106	4.65869	1.002428
26_3	3/4/12					9200	12000	21200	4.41	4.41	356	0.720393	0.977856	0.974049	4.587769	0.961252
26_4	6/14/12					56	17000	25000	4.85	4.85	458	0.655784	0.971603	0.949126	4.470385	1.084918
26_5	7/5/12					42	12000	19000	4.93	4.93	479	0.64322	0.97032	0.944229	4.447317	1.108533
26_6	10/17/12					70	23000	38000	6.07	6.07	583	0.584454	0.963994	0.921071	4.338244	1.399183
26_7	11/21/12	55	16000	27000	3.35	50	13000	22000	4.39	3.87	618	0.56591	0.961874	0.913669	4.30338	0.899293
26_8	12/18/12	44	9300	17000	3.3	59	16000	29000	4.11	3.705	645	0.552008	0.960241	0.908086	4.277087	0.866244
26_9	5/21/13	11000	23000	34000	2.932	8800	18000	26800	3.962	3.447	799	0.478996	0.950985	0.878244	4.136531	0.833307
26_10	6/25/13	13000	26000	39000	3.106	27000	57000	84000	5.334	4.22	834	0.463798	0.948894	0.871907	4.10668	1.027594
26_11	8/30/13	6400	14000	20400	2.426	25000	55000	80000	3.866	3.146	900	0.436439	0.944963	0.86037	4.052341	0.776341
26_12	10/3/13	7500	17000	24500	2.586	10000	23000	33000	3.226	2.906	934	0.422981	0.942944	0.854629	4.025304	0.721933
26_13	12/12/13	11000	26000	37000	2.794	9500	23000	32500	2.502	2.648	1004	0.396565	0.938801	0.843224	3.971585	0.666736
26_14	5/14/14	11000	31000	42000	2.39	4100	11000	15100	2.41	2.4	1157	0.34443	0.92981	0.820089	3.862621	0.62134
26_15	6/10/14	9200	26000	35200	2.26	6800	19000	25800	2.4	2.33	1184	0.335969	0.928232	0.816244	3.844508	0.606059
26_16	8/6/14	4500	13000	17500	2.22	7900	23000	30900	2.33	2.275	1241	0.318782	0.92491	0.808343	3.807295	0.597537
26_17	10/3/14	6100	19000	25100	2.23	3300	10000	13300	2.23	2.23	1299	0.302197	0.921542	0.800594	3.770796	0.591387
26_18	12/3/14	5400	18000	23400	2.12	4200	13000	17200	2.19	2.155	1360	0.285683	0.918013	0.792744	3.733823	0.577156
26_19	2/4/15	2700	9100	11800	1.61	6200	22000	28200	1.67	1.64	1423	0.269575	0.914382	0.784942	3.697078	0.443594
26_20	5/20/15	2000	7400	9400	1.6	2200	8000	10200	2.03	1.815	1528	0.24472	0.908363	0.772585	3.638875	0.498781
26_21	6/12/15	4200	16000	20200	1.57	4100	14000	18100	2.17	1.87	1551	0.23959	0.90705	0.76998	3.626605	0.515634
26_22	8/26/15	9700	36000	45700	1.6	5200	21000	26200	2	1.8	1626	0.223595	0.902781	0.761724	3.587721	0.501711
26_23	10/5/15	4400	18000	22400	1.31	12000	47000	59000	1.97	1.64	1666	0.215505	0.900512	0.757465	3.56786	0.459685
26_24	12/3/15	3600	16000	19600	1.29	4600	19000	23600	2.06	1.675	1725	0.204105	0.897177	0.751356	3.538888	0.473313
26_25	2/6/16	4000	18000	22000	1.24	5400	23000	28400	1.66	1.45	1790	0.192242	0.893516	0.744854	3.508263	0.41331
26_26	5/19/16	2500	13000	15500	1.18	7900	38000	45900	1.52	1.35	1893	0.174839	0.887746	0.735009	3.461894	0.38996
26_27	6/19/16	4200	21000	25200	1.11	6900	35000	41900	1.73	1.42	1924	0.169917	0.886017	0.73215	3.448427	0.411782
26_28	8/29/16	4300	23000	27300	0.99	6600	35000	41600	1.62	1.305	1995	0.159159	0.882069	0.725772	3.418386	0.381759
26_29	10/25/16	2800	15000	17800	1.06	3800	22000	25800	1.67	1.365	2052	0.151017	0.878912	0.720815	3.395041	0.402057
26_30	12/15/16	1400	7500	8900	1.04	2400	15000	17400	1.61	1.325	2103	0.144086	0.876097	0.716498	3.374707	0.392627
26_31	2/2/17	2400	15000	17400	1.33	2700	17000	19700	1.9	1.615	2152	0.137726	0.873401	0.71245	3.355641	0.481279
26_32	5/16/17	1800	12000	13800	0.89	3300	22000	25300	1.53	1.21	2255	0.125259	0.867761	0.704242	3.316982	0.364789
26_33	6/12/17	3100	22000	25100	0.92	3200	20000	23200	1.47	1.195	2282	0.122182	0.866288	0.702155	3.30715	0.361338
26_34	8/22/17	1800	13000	14800	0.92	4700	35000	39700	1.64	1.28	2353	0.114446	0.862428	0.696786	3.281861	0.390023
26_35	10/27/17	2000	15000	17000	0.76	1900	15000	16900	1.32	1.04	2419	0.107695	0.858855	0.691944	3.259055	0.319111
26_36	12/13/17	2200	18000	20200	0.79	3800	30000	33800	1.5	1.145	2466	0.103131	0.85632	0.688578	3.243204	0.353046
26_37	2/3/18	1400	12000	13400	0.82	1700	14000	15700	1.36	1.09	2518	0.098307	0.853524	0.684932	3.22603	0.337877
26_38	5/10/18	1500	14000	15500	0.71	2000	18000	20000	1.3	1.005	2614	0.089987	0.848385	0.678401	3.195267	0.314528
26_39	6/5/18	1700	15000	16700	0.7	3000	27000	30000	1.43	1.065	2640	0.087857	0.846999	0.676674	3.187137	0.334156
26_40	8/15/18	870	8200	9070	0.81	4500	44000	48500	1.5	1.155	2711	0.082294	0.843225	0.672048	3.165347	0.364889
26_41	10/11/18	1800	19000	20800	0.94	3100	34000	37100	1.82	1.38	2768	0.078084	0.840207	0.668423	3.148274	0.438335
26_42	11/14/18	1200	13000	14200	0.92	3400	37000	40400	1.64	1.28	2802	0.075677	0.838412	0.666297	3.13826	0.407869
26_43	12/11/18	1300	14000	15300	0.89	2400	26000	28400	1.83	1.36	2829	0.073817	0.836989	0.664627	3.130395	0.43445
26_44	5/10/19	1200	15000	16200	0.84	1900	24000	25900	1.55	1.195	2979	0.06429	0.829129	0.655634	3.088036	0.386977
26_45	6/6/19	1300	18000	19300	0.36	3200	39000	42200	1.74	1.05	3006	0.062711	0.827722	0.654063	3.080639	0.340838
26_46	8/22/19	1200	16000	17200	0.78	1800	25000	26800	1.55	1.165	3083	0.058417	0.823723	0.64966	3.059898	0.380732
26_47	10/4/19	840	12000	12840	0.83	1100	16000	17100	1.63	1.23	3126	0.056148	0.821498	0.647247	3.048535	0.403472
26_48	11/12/19	770	12000	12770	0.71	920	14000	14920	1.53	1.12	3165	0.054166	0.819486	0.645087	3.038361	0.36862
26_49	12/8/19	580	9200	9780	0.75	1100	17000	18100	1.56	1.155	3191	0.052885	0.818146	0.643661	3.031644	0.380981
26_50	8/19/20	1200	22000	23200	0.62	1700	33000	34700	1.51	1.065	3446	0.041813	0.805128	0.630232	2.968395	0.35878
26_51	10/14/20	430	8600	9030	0.58	1100	23000	24100	1.63	1.105	3502	0.03971	0.802297	0.627407	2.955088	0.373931
26_52	11/12/20	550	11000	11550	0.66	1100	21000	22100	1.58	1.12	3531	0.038663	0.800835	0.62596	2.948273	0.379883
26_53	12/2/20	620	13000	13620	0.74	1600	36000	37600	1.67	1.205	3551	0.037958	0.799829	0.624969	2.943602	0.409362
26_54	5/19/21	260	6900	7160	0.5	780	19000	19780	1.14	0.82	3719	0.032515	0.791421	0.616828	2.905259	0.282247
26_55	6/4/21	430	11000	11430	0.6	380	9500	9880	1.22	0.91	3735	0.032039	0.790625	0.616069	2.901687	0.313611
26_56	8/4/21	350	9700	10050	0.6	490	13000	13490	1.58	1.09	3796	0.030288	0.787597	0.613203	2.888186	0.3774
26_57	10/18/21	490	14000	14490	0.58	860	25000	25860	1.51	1.045	3871	0.028266	0.783891	0.609731	2.871835	0.363879
26_58	11/13/21	290	8000	8290	0.58	900	25000	25900	1.51	1.045	3897	0.027597	0.78261	0.608541	2.866228	0.364591
26_59	12/6/21	290	7900	8190	0.62	520	14000	14520	1.49	1.055	3920	0.027019	0.781478	0.607493	2.861294	0.368714
26_60	5/11/22	180	5700	5880	0.61	1600	51000	52600	1.48	1.045	4076	0.023402	0.773848	0.600517	2.828435	0.369462
26_61	6/9/22	530	18000	18530	0.58	1900	66000	67900	1.38	0.98	4105	0.022785	0.772437	0.599244	2.822438	0.347218
26_62	8/3/22	410	16000	16410	0.52	830	31000	31830	1.43	0.975	4160	0.021659	0.76977	0.596848	2.811154	0.346833
26_63	10/5/22	300	12000	12300	0.52	480	18000	18480	1.21	0.865	4223	0.020438	0.766725	0.594134	2.79837	0.309108
26_64	11/4/22	210	7800	8010	0.43	320	12000	12320	1.13	0.78	4253	0.019881	0.76528	0.592852	2.792334	0.279336
26_65	12/12/22	210	9100	9310	0.48	630	26000	26630	1.15	0.815	4291	0.019197	0.763453	0.591239	2.784734	0.292667
26_66	5/30/23	850	40000	40850	0.52	890	40000	40890	1.31	0.915	4460	0.016429	0.75538	0.584188	2.751525	0.332543
26_67	6/22/23	140	7200	7340	0.42	590	30000	30590	1.15	0.785	4483	0.016085	0.754288	0.583243	2.747077	0.285758
26_68	8/25/23	230	11000	11230	0.44	340	17000	17340	0.95	0.695	4547	0.015164	0.751258	0.580634	2.734784	0.254133
26_69	10/25/23	160	8300	8460	0.49	580	28000	28580	1.14	0.815	4608	0.014335	0.748381	0.57817	2.72318	0.299282
26_70	11/27/23	86	4800	4886	0.37	530	30000	30530	0.94	0.655	4641	0.013906	0.746829	0.576847	2.716947	0.241079
26_71	12/18/23	200	11000	11200	0.36	460	26000	26460	0.99	0.675	4662	0.01364	0.745843	0.576008	2.712997	0.248802
26_72	5/2/24	120	9100	9220	0.42	410	27000	27410	1.05	0.735	4798	0.012033	0.73949	0.570637	2.687701	0.273468
26_73	6/17/24	110	7000	7110	0.39	370	25000	25370	0.95	0.67	4844	0.011534	0.737354	0.568844	2.679254	0.25007
26_74	8/17/24	99	6600	6699	0.36	260	18000	18260	0.83	0.595	4905	0.010904	0.73453	0.566483	2.668134	0.223002

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
27_1	11/21/11					26000	33000	59000	8.51	8.51	252	0.792827	0.984274	1.001534	8.523057	0.998468
27_2	1/6/12					37000	52000	89000	8.06	8.06	298	0.759932	0.98143	0.989106	8.417293	0.957553
27_3	3/4/12					10000	14000	24000	8.22	8.22	356	0.720393	0.977856	0.974049	8.289153	0.991657
27_4	6/14/12					31	4600	7100	6.25	6.25	458	0.655784	0.971603	0.949126	8.077065	0.773796
27_5	7/5/12					44	10000	16000	11.9	11.9	479	0.64322	0.97032	0.944229	8.035387	1.480949
27_6	10/17/12					46	13000	22000	6.68	6.68	583	0.584454	0.963994	0.921071	7.838314	0.852224
27_7	11/20/12	27	4800	8200	10.89	88	55000	96000	5.18	8.035	617	0.566432	0.961934	0.913878	7.777098	1.033162
27_8	12/18/12	69	31000	57000	11.12	36	7900	14000	5.72	8.42	645	0.552008	0.960241	0.908086	7.727815	1.089571
27_9	5/21/13	16000	33000	49000	9.502	27000	55000	82000	8.138	8.82	799	0.478996	0.950985	0.878244	7.47386	1.180113
27_10	6/25/13	4000	8300	12300	9.766	47000	99000	146000	10.22	9.993	834	0.463798	0.948894	0.871907	7.419925	1.346779
27_11	8/30/13	14000	30000	44000	7.568	17000	39000	56000	8.036	7.802	900	0.436439	0.944963	0.86037	7.321745	1.065593
27_12	10/3/13	9000	20000	29000	7.066	27000	59000	86000	9.876	8.471	934	0.422981	0.942944	0.854629	7.272895	1.164736
27_13	12/12/13	4600	11000	15600	7.716	27000	66000	93000	7.726	7.721	1004	0.396565	0.938801	0.843224	7.175837	1.075972
27_14	5/14/14	5700	16000	21700	7.4	26000	72000	98000	7.64	7.52	1157	0.34443	0.92981	0.820089	6.97896	1.077524
27_15	6/10/14	44000	120000	164000	7.19	18000	51000	69000	8.62	7.905	1184	0.335969	0.928232	0.816244	6.946235	1.138027
27_16	8/6/14	12000	36000	48000	7.62	16000	46000	62000	6.64	7.13	1241	0.318782	0.92491	0.808343	6.878998	1.036488
27_17	10/3/14	25000	76000	101000	7.54	24000	74000	98000	6.75	7.145	1299	0.302197	0.921542	0.800594	6.813053	1.048722
27_18	12/3/14	11000	36000	47000	6.72	18000	58000	76000	6.51	6.615	1360	0.285683	0.918013	0.792744	6.746249	0.980545
27_19	2/5/15	14000	50000	64000	6.85	19000	67000	86000	7.11	6.98	1424	0.269326	0.914325	0.784821	6.678824	1.045094
27_20	5/20/15	15000	53000	68000	5.31	14000	51000	65000	5.61	5.46	1528	0.24472	0.908363	0.772585	6.574697	0.830456
27_21	6/18/15	14000	50000	64000	5	15000	54000	69000	5.14	5.07	1557	0.238269	0.906708	0.769306	6.546794	0.774425
27_22	9/1/15	12000	45000	57000	4.64	15000	56000	71000	4.56	4.6	1632	0.222362	0.90244	0.761079	6.476784	0.710229
27_23	10/15/15	7700	32000	39700	4.8	16000	68000	84000	5.45	5.125	1676	0.213529	0.899946	0.756415	6.437094	0.796167
27_24	12/5/15	19000	81000	100000	4.73	14000	60000	74000	4.15	4.44	1727	0.203729	0.897064	0.751153	6.392309	0.694585
27_25	2/6/16	13000	58000	71000	4.4	13000	59000	72000	3.9	4.15	1790	0.192242	0.893516	0.744854	6.338709	0.654707
27_26	5/14/16	3800	19000	22800	4.11	12000	57000	69000	3.64	3.875	1888	0.175646	0.888025	0.735475	6.258891	0.619119
27_27	6/18/16	10000	51000	61000	4.01	9100	46000	55100	3.56	3.785	1923	0.170073	0.886072	0.732242	6.231376	0.60741
27_28	8/29/16	8800	48000	56800	3.75	5300	28000	33300	3.08	3.415	1995	0.159159	0.882069	0.725772	6.17632	0.552918
27_29	10/23/16	15000	81000	96000	3.26	10000	54000	64000	3.71	3.485	2050	0.151295	0.879022	0.720987	6.1356	0.567997
27_30	12/19/16	5000	30000	35000	3.16	4200	24000	28200	3.31	3.235	2107	0.143556	0.875876	0.716164	6.094557	0.530801
27_31	2/2/17	2100	13000	15100	3.52	6200	39000	45200	4.47	3.995	2152	0.137726	0.873401	0.71245	6.062952	0.65892
27_32	5/27/17	3300	21000	24300	3.3	7600	50000	57600	3.16	3.23	2266	0.123996	0.86716	0.703389	5.985839	0.539607
27_33	6/20/17	5200	34000	39200	3.26	5600	37000	42600	2.74	3	2290	0.121284	0.865852	0.701541	5.970117	0.502503
27_34	8/27/17	4100	31000	35100	2.75	5700	42000	47700	2.73	2.74	2358	0.11392	0.862157	0.696414	5.926484	0.462331
27_35	10/28/17	4200	34000	38200	2.81	7500	59000	66500	2.31	2.56	2420	0.107595	0.858801	0.691871	5.887825	0.434796
27_36	12/20/17	5700	48000	53700	2.96	5400	44000	49400	2.95	2.955	2473	0.102468	0.855943	0.688083	5.855586	0.504646
27_37	2/12/18	5100	43000	48100	2.96	6300	54000	60300	2.98	2.97	2527	0.097496	0.85304	0.684309	5.823468	0.510005
27_38	5/25/18	8300	79000	87300	2.25	4900	47000	51900	2.54	2.395	2629	0.088752	0.847585	0.677403	5.764697	0.41546
27_39	6/17/18	1600	15000	16600	2.51	5800	54000	59800	2.29	2.4	2652	0.086891	0.84636	0.675884	5.75177	0.417263
27_40	8/26/18	4100	41000	45100	3.14	4100	40000	44100	2.7	2.92	2722	0.081464	0.842641	0.671343	5.713126	0.511104
27_41	10/17/18	3600	38000	41600	3.19	4000	40000	44000	2.76	2.975	2774	0.077654	0.83989	0.668046	5.685073	0.5233
27_42	11/16/18	2000	22000	24000	3.41	4700	50000	54700	2.79	3.1	2804	0.075537	0.838306	0.666173	5.669132	0.546821
27_43	12/16/18	5400	57000	62400	3.23	5200	55000	60200	3.13	3.18	2834	0.073478	0.836726	0.66432	5.653363	0.562497
27_44	5/6/19	2200	26000	28200	3.09	3600	46000	49600	2.78	2.935	2975	0.064528	0.829338	0.655868	5.581436	0.52585
27_45	6/9/19	2200	28000	30200	3.53	3400	42000	45400	2.81	3.17	3009	0.062538	0.827566	0.65389	5.564602	0.569672
27_46	8/18/19	2000	28000	30000	2.95	2200	31000	33200	2.31	2.63	3079	0.058632	0.82393	0.649886	5.530529	0.475542
27_47	11/17/19	640	9400	10040	2.57	2100	31000	33100	2.01	2.29	3170	0.053918	0.819228	0.644812	5.487351	0.417323
27_48	12/15/19	1900	29000	30900	2.87	2800	41000	43800	2.02	2.445	3198	0.052545	0.817786	0.643279	5.474306	0.446632
27_49	8/18/20	2100	37000	39100	2.27	1300	23000	24300	2.18	2.225	3445	0.041851	0.805179	0.630283	5.36371	0.414825
27_50	10/18/20	2900	57000	59900	2.61	1600	32000	33600	1.6	2.105	3506	0.039564	0.802096	0.627207	5.337532	0.394377
27_51	11/15/20	2400	50000	52400	2.7	1600	34000	35600	2	2.35	3534	0.038557	0.800684	0.625811	5.325653	0.44126
27_52	12/6/20	3000	60000	63000	2.83	1100	22000	23100	1.88	2.355	3555	0.037818	0.799627	0.624771	5.316799	0.442936
27_53	5/19/21	470	12000	12470	0.62	810	21000	21810	1.82	1.22	3719	0.032515	0.791421	0.616828	5.249205	0.232416
27_54	6/5/21	2500	63000	65500	2.65	500	13000	13500	1.94	2.295	3736	0.03201	0.790575	0.616022	5.242348	0.437781
27_55	8/4/21	750	20000	20750	2.21	900	24000	24900	1.61	1.91	3796	0.030288	0.787597	0.613203	5.218357	0.366016
27_56	10/18/21	93	2500	2593	2.21	1200	37000	38200	1.6	1.905	3871	0.028266	0.783891	0.609731	5.188814	0.367136
27_57	11/25/21	69	1700	1769	2.26	640	19000	19640	1.6	1.93	3909	0.027294	0.782019	0.607994	5.174027	0.373017
27_58	12/25/21	110	3400	3510	2.09	640	20000	20640	1.89	1.99	3939	0.02655	0.780545	0.606632	5.162437	0.385477
27_59	5/31/22	740	25000	25740	1.01	750	29000	29750	0.67	0.84	4096	0.022975	0.772875	0.599638	5.102921	0.164612
27_60	6/27/22	1600	56000	57600	2.6	1600	53000	54600	1.6	2.1	4123	0.02241	0.771563	0.598457	5.092869	0.412341
27_61	8/3/22	2300	83000	85300	2.79	710	26000	26710	1.5	2.145	4160	0.021659	0.76977	0.596848	5.079177	0.422313
27_62	10/20/22	2700	110000	112700	3.68	960	36000	36960	1.35	2.515	4238	0.020158	0.766002	0.593492	5.050618	0.497959
27_63	11/30/22	980	40000	40980	2.54	720	30000	30720	1.6	2.07	4279	0.01941	0.764029	0.591747	5.035767	0.41106
27_64	12/20/22	1200	50000	51200	2.53	1600	64000	65600	1.97	2.25	4299	0.019056	0.763069	0.5909	5.028561	0.447444
27_65	5/30/23	1200	57000	58200	2.69	440	19000	19440	1.52	2.105	4460	0.016429	0.75538	0.584188	4.971439	0.423419
27_66	6/22/23	660	32000	32660	2.71	560	28000	28560	1.18	1.945	4483	0.016085	0.754288	0.583243	4.963402	0.391868
27_67	8/25/23	2400	120000	122400	2.11	1000	54000	55000	1.41	1.76	4547	0.015164	0.751258	0.580634	4.941191	0.356189
27_68	10/25/23	760	40000	40760	3.07	430	25000	25430	1.47	2.27	4608	0.014335	0.748381	0.57817	4.920226	0.461361
27_69	11/27/23	240	13000	13240	2.89	420	22000	22420	1.58	2.235	4641	0.013906	0.746829	0.576847	4.908964	0.45529
27_70	12/19/23	100	6400	6500	1.21	860	46000	46860	1.48	1.345	4663	0.013627	0.745796	0.575968	4.901487	0.274407
27_71	5/2/24	62	4600	4662	1.13	510	34000	34510	1.58	1.355	4798	0.012033	0.73949	0.570637	4.856123	0.279029
27_72	6/20/24	54	3300	3354	0.84	500	32000	32500	1.61	1.225	4847	0.011502	0.737215	0.568727	4.839869	0.253106
27_73	8/30/24	63	4100	4163	0.76	560	38000	38560	1.59	1.175	4918	0.010774	0.73393	0.565982	4.816508	0.243953

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
28_1	8/30/12	17	1200	1900	0.64	23	3100	5000	0.94	0.79	535	0.610878	0.966908	0.931538	0.735915	1.073494
28_2	10/16/12	19	1900	3200	0.66	20	1800	3000	0.77	0.715	582	0.584993	0.964054	0.921285	0.727815	0.982392
28_3	11/20/12	13	860	1500	0.61	16	1200	2100	0.75	0.68	617	0.566432	0.961934	0.913878	0.721963	0.941876
28_4	12/27/12	17	1500	2700	0.58	18	1500	2800	0.73	0.655	654	0.54745	0.959698	0.90625	0.715937	0.914884
28_5	3/7/13	17	1600	3200	0.57	17	1300	2600	0.72	0.645	724	0.513261	0.955482	0.892367	0.70497	0.914933
28_6	5/31/13	1100	2300	3400	0.474	1300	2600	3900	0.556	0.515	809	0.474604	0.950387	0.876418	0.69237	0.743822
28_7	6/27/13	820	1700	2520	0.426	650	1300	1950	0.534	0.48	836	0.462944	0.948774	0.871549	0.688524	0.697144
28_8	8/29/13	1700	3700	5400	0.38	990	2200	3190	0.48	0.43	899	0.436841	0.945022	0.86054	0.679827	0.632514
28_9	10/3/13	1300	2800	4100	0.356	1000	2400	3400	0.45	0.403	934	0.422981	0.942944	0.854629	0.675157	0.596898
28_10	12/13/13	1400	3400	4800	0.4	1600	3700	5300	0.492	0.446	1005	0.3962	0.938742	0.843065	0.666021	0.669648
28_11	5/15/14	840	2300	3140	0.42	930	2600	3530	0.51	0.465	1158	0.344113	0.929751	0.819946	0.647757	0.717862
28_12	6/16/14	400	1300	1700	0.4	890	2500	3390	0.47	0.435	1190	0.334117	0.927882	0.815398	0.644165	0.675293
28_13	8/7/14	540	1500	2040	0.41	1200	3500	4700	0.48	0.445	1242	0.318489	0.924852	0.808207	0.638483	0.696964
28_14	10/9/14	770	2500	3270	0.36	680	2200	2880	0.44	0.4	1305	0.300531	0.921194	0.799808	0.631848	0.633063
28_15	12/4/14	1200	3800	5000	0.37	930	2900	3830	0.38	0.375	1361	0.28542	0.917955	0.792618	0.626168	0.598881
28_16	5/18/15	910	3200	4110	0.32	660	2400	3060	0.37	0.345	1526	0.245172	0.908477	0.772813	0.610522	0.56509
28_17	6/9/15	610	2300	2910	0.32	1100	4000	5100	0.37	0.345	1548	0.240253	0.907221	0.770318	0.608551	0.566921
28_18	8/12/15	170	750	920	0.23	900	3700	4600	0.3	0.265	1612	0.226497	0.903576	0.763238	0.602958	0.4395
28_19	10/4/15	410	1600	2010	0.26	510	2000	2510	0.36	0.31	1665	0.215704	0.900569	0.75757	0.598481	0.517978
28_20	12/10/15	350	1400	1750	0.24	950	4200	5150	0.33	0.285	1732	0.202793	0.896782	0.750645	0.593009	0.4806
28_21	2/15/16	390	1900	2290	0.22	750	3300	4050	0.33	0.275	1799	0.190654	0.89301	0.743972	0.587738	0.467896
28_22	5/5/16	240	1200	1440	0.27	580	2900	3480	0.34	0.305	1879	0.177109	0.888528	0.736316	0.58169	0.524335
28_23	6/4/16	240	1300	1540	0.24	590	3400	3990	0.33	0.285	1909	0.172281	0.886853	0.733528	0.579487	0.491814
28_24	8/23/16	330	1800	2130	0.24	630	3300	3930	0.3	0.27	1989	0.160041	0.882402	0.726302	0.573779	0.470565
28_25	10/15/16	540	2900	3440	0.22	650	3600	4250	0.31	0.265	2042	0.152414	0.879465	0.721675	0.570123	0.464812
28_26	12/2/16	390	2600	2990	0.24	420	2600	3020	0.31	0.275	2090	0.145822	0.876813	0.717588	0.566895	0.485099
28_27	2/12/17	180	1200	1380	0.21	300	1900	2200	0.25	0.23	2162	0.136463	0.872852	0.711636	0.562192	0.409113
28_28	5/24/17	310	2000	2310	0.25	440	3000	3440	0.3	0.275	2263	0.124339	0.867324	0.703621	0.555861	0.494728
28_29	6/22/17	77	700	777	0.21	310	2400	2710	0.27	0.24	2292	0.121061	0.865743	0.701388	0.554097	0.433137
28_30	8/20/17	420	3000	3420	0.19	290	2400	2690	0.23	0.21	2351	0.114657	0.862536	0.696935	0.550578	0.381417
28_31	10/28/17	220	1700	1920	0.21	240	1900	2140	0.24	0.225	2420	0.107595	0.858801	0.691871	0.546578	0.411652
28_32	12/19/17	170	1600	1770	0.2	310	2700	3010	0.25	0.225	2472	0.102563	0.855997	0.688154	0.543641	0.413876
28_33	2/11/18	270	2500	2770	0.16	190	1800	1990	0.21	0.185	2526	0.097585	0.853094	0.684378	0.540659	0.342175
28_34	5/20/18	150	1400	1550	0.22	270	2500	2770	0.28	0.25	2624	0.089161	0.847852	0.677735	0.53541	0.466932
28_35	6/19/18	170	1800	1970	0.21	410	4300	4710	0.26	0.235	2654	0.086731	0.846253	0.675752	0.533844	0.440203
28_36	8/23/18	99	1200	1299	0.21	210	2000	2210	0.25	0.23	2719	0.08169	0.8428	0.671535	0.530512	0.433543
28_37	10/20/18	200	2200	2400	0.2	240	2400	2640	0.25	0.225	2777	0.07744	0.839731	0.667858	0.527608	0.426453
28_38	11/20/18	150	1600	1750	0.22	220	2400	2620	0.24	0.23	2808	0.075259	0.838096	0.665925	0.526081	0.437195
28_39	12/19/18	300	3600	3900	0.19	200	2500	2700	0.25	0.22	2837	0.073275	0.836568	0.664136	0.524667	0.419313
28_40	5/3/19	270	3400	3670	0.2	260	3100	3360	0.25	0.225	2972	0.064706	0.829494	0.656044	0.518274	0.434133
28_41	6/20/19	140	1700	1840	0.19	160	2200	2360	0.22	0.205	3020	0.061907	0.826994	0.653255	0.516071	0.397232
28_42	8/19/19	220	2800	3020	0.18	210	2800	3010	0.22	0.2	3080	0.058578	0.823879	0.649829	0.513365	0.389586
28_43	10/17/19	120	1800	1920	0.18	200	3000	3200	0.18	0.18	3139	0.05548	0.820827	0.646524	0.510754	0.35242
28_44	11/17/19	64	1000	1064	0.19	75	1100	1175	0.19	0.19	3170	0.053918	0.819228	0.644812	0.509402	0.372987
28_45	12/8/19	62	1000	1062	0.19	89	1300	1389	0.18	0.185	3191	0.052885	0.818146	0.643661	0.508492	0.363821
28_46	8/1/20	100	1900	2000	0.15	74	1400	1474	0.14	0.145	3428	0.042512	0.806041	0.631149	0.498608	0.29081
28_47	10/21/20	91	1900	1991	0.17	59	1200	1259	0.16	0.165	3509	0.039455	0.801944	0.627057	0.495375	0.333081
28_48	11/22/20	31	680	711	0.16	29	570	599	0.16	0.16	3541	0.038309	0.800332	0.625464	0.494116	0.32381
28_49	12/17/20	90	1900	1990	0.15	43	950	993	0.15	0.15	3566	0.037437	0.799074	0.624228	0.49314	0.304173
28_50	5/20/21	22	740	762	0.12	31	910	941	0.15	0.135	3720	0.032485	0.791371	0.61678	0.487256	0.277061
28_51	6/4/21	21	500	521	0.15	52	1200	1252	0.17	0.16	3735	0.032039	0.790625	0.616069	0.486695	0.328748
28_52	8/28/21	78	2100	2178	0.15	39	1000	1039	0.16	0.155	3820	0.029626	0.786409	0.612086	0.483548	0.320547
28_53	10/15/21	41	1100	1141	0.15	44	1100	1144	0.15	0.15	3868	0.028345	0.784038	0.609869	0.481797	0.311335
28_54	11/13/21	42	1300	1342	0.15	28	720	748	0.15	0.15	3897	0.027597	0.78261	0.608541	0.480747	0.312014
28_55	12/6/21	61	1700	1761	0.17	42	1300	1342	0.18	0.175	3920	0.027019	0.781478	0.607493	0.47992	0.364644
28_56	5/11/22	29	1000	1029	0.15	41	1400	1441	0.16	0.155	4076	0.023402	0.773848	0.600517	0.474408	0.326723
28_57	6/8/22	13	390	403	0.14	40	1300	1340	0.15	0.145	4104	0.022806	0.772486	0.599288	0.473437	0.306271
28_58	8/3/22	24	750	774	0.11	52	1800	1852	0.14	0.125	4160	0.021659	0.76977	0.596848	0.47151	0.265106
28_59	10/5/22	20	810	830	0.14	14	840	854	0.13	0.135	4223	0.020438	0.766725	0.594134	0.469366	0.287622
28_60	11/4/22	69	2500	2569	0.13	56	1700	1756	0.2	0.165	4253	0.019881	0.76528	0.592852	0.468353	0.352298
28_61	12/7/22	75	2500	2575	0.14	18	610	628	0.16	0.15	4286	0.019286	0.763693	0.59145	0.467246	0.32103
28_62	5/11/23	20	1200	1220	0.14	16	540	556	0.17	0.155	4441	0.016719	0.756284	0.584971	0.462127	0.335406
28_63	6/29/23	31	1800	1831	0.12	35	2100	2135	0.14	0.13	4490	0.015982	0.753956	0.582957	0.460536	0.28228
28_64	8/29/23	42	2100	2142	0.14	47	2500	2547	0.16	0.15	4551	0.015108	0.751069	0.580471	0.458572	0.327102
28_65	10/24/23	32	1700	1732	0.15	23	1200	1223	0.16	0.155	4607	0.014349	0.748428	0.57821	0.456786	0.339327
28_66	11/29/23	21	1000	1021	0.14	39	2100	2139	0.15	0.145	4643	0.01388	0.746735	0.576767	0.455646	0.31823
28_67	12/22/23	16	1000	1016	0.14	18	1200	1218	0.16	0.15	4666	0.013589	0.745656	0.575848	0.45492	0.329728
28_68	5/17/24	25	1700	1725	0.13	22	1600	1622	0.14	0.135	4813	0.011868	0.738793	0.570051	0.45034	0.299773
28_69	6/26/24	21	1700	1721	0.14	30	1700	1730	0.15	0.145	4853	0.011439	0.736936	0.568494	0.44911	0.32286
28_70	8/17/24	11	520	531	0.13	10	850	860	0.15	0.14	4905	0.010904	0.73453	0.566483	0.447521	0.312834

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/Pl
29_1	8/29/12	49	16000	26000	5.08	53	18000	30000	4.92	5	534	0.611441	0.966969	0.93176	4.658798	1.073238
29_2	11/14/12	59	15000	26000	4.28	57	15000	25000	4.77	4.525	611	0.569571	0.962297	0.915134	4.57567	0.988926
29_3	12/5/12	150	73000	130000	8.24	43	11000	20000	3.85	6.045	632	0.558658	0.961027	0.91076	4.553802	1.327462
29_4	12/26/12	160	73000	130000	7.24	20	2200	4000	3.83	5.535	653	0.547954	0.959758	0.906453	4.532267	1.221243
29_5	2/27/13	44	13000	25000	4.7	110	31000	57000	4.19	4.445	716	0.517058	0.955963	0.893918	4.46959	0.994498
29_6	5/31/13	18000	37000	55000	4.618	16000	32000	48000	4.696	4.657	809	0.474604	0.950387	0.876418	4.382088	1.062735
29_7	6/27/13	6400	13000	19400	3.434	4000	8100	12100	3.626	3.53	836	0.462944	0.948774	0.871549	4.357745	0.810052
29_8	8/29/13	5000	11000	16000	3.086	12000	27000	39000	3.178	3.132	899	0.436841	0.945022	0.86054	4.302702	0.727915
29_9	10/3/13	7000	15000	22000	3.032	11000	25000	36000	3.182	3.107	934	0.422981	0.942944	0.854629	4.273146	0.727099
29_10	12/13/13	7500	18000	25500	2.422	20000	48000	68000	3.842	3.132	1005	0.3962	0.938742	0.843065	4.215325	0.743003
29_11	5/15/14	7900	23000	30900	2.56	2200	6200	8400	3.86	3.21	1158	0.344113	0.929751	0.819946	4.099729	0.782979
29_12	6/16/14	8200	23000	31200	2.78	7100	20000	27100	3.46	3.12	1190	0.334117	0.927882	0.815398	4.076992	0.76527
29_13	8/7/14	5700	17000	22700	0.45	5200	15000	20200	3.51	1.98	1242	0.318489	0.924852	0.808207	4.041034	0.489974
29_14	10/9/14	6700	21000	27700	2.47	5900	18000	23900	3.46	2.965	1305	0.300531	0.921194	0.799808	3.999041	0.741428
29_15	12/4/14	8300	27000	35300	2.4	27000	88000	115000	3.16	2.78	1361	0.28542	0.917955	0.792618	3.963088	0.701473
29_16	5/18/15	4400	16000	20400	1.69	5000	19000	24000	2.06	1.875	1526	0.245172	0.908477	0.772813	3.864065	0.48524
29_17	6/9/15	6100	21000	27100	1.7	11000	38000	49000	2.05	1.875	1548	0.240253	0.907221	0.770318	3.851588	0.486812
29_18	8/12/15	6400	25000	31400	1.61	6100	23000	29100	1.82	1.715	1612	0.226497	0.903576	0.763238	3.816191	0.449401
29_19	10/5/15	4900	20000	24900	1.55	3600	15000	18600	1.67	1.61	1666	0.215505	0.900512	0.757465	3.787325	0.425102
29_20	12/10/15	4200	18000	22200	1.36	4500	19000	23500	1.35	1.355	1732	0.202793	0.896782	0.750645	3.753224	0.361023
29_21	2/15/16	4000	19000	23000	1.45	3600	17000	20600	1.37	1.41	1799	0.190654	0.89301	0.743972	3.71986	0.379047
29_22	5/5/16	5000	25000	30000	1.67	5600	27000	32600	1.48	1.575	1879	0.177109	0.888528	0.736316	3.68158	0.427806
29_23	6/4/16	3100	15000	18100	1.55	4700	22000	26700	1.48	1.515	1909	0.172281	0.886853	0.733528	3.667639	0.413072
29_24	8/8/16	2400	13000	15400	1.44	3200	17000	20200	1.24	1.34	1974	0.162268	0.883234	0.727634	3.638172	0.368317
29_25	10/19/16	1600	9100	10700	1.22	5000	28000	33000	1.49	1.355	2046	0.151854	0.879244	0.721331	3.606653	0.375695
29_26	12/15/16	2800	16000	18800	1.37	2300	13000	15300	1.27	1.32	2103	0.144086	0.876097	0.716498	3.582491	0.368459
29_27	2/4/17	4300	27000	31300	1.23	2300	15000	17300	1.36	1.295	2154	0.137473	0.873291	0.712287	3.561435	0.363617
29_28	5/18/17	1100	8000	9100	0.91	2300	16000	18300	1.28	1.095	2257	0.125028	0.867651	0.704087	3.520435	0.311041
29_29	6/9/17	660	4900	5560	1.03	3400	22000	25400	1.01	1.02	2279	0.12252	0.866452	0.702386	3.511928	0.290439
29_30	8/16/17	1100	7100	8200	0.92	3200	23000	26200	1.06	0.99	2347	0.11508	0.862753	0.697233	3.486165	0.28398
29_31	10/14/17	1700	13000	14700	0.86	1300	10000	11300	1.07	0.965	2406	0.108992	0.859558	0.692886	3.464432	0.278545
29_32	12/16/17	1800	15000	16800	0.9	1300	11000	12300	1.17	1.035	2469	0.102847	0.856158	0.688366	3.44183	0.300712
29_33	2/11/18	1500	13000	14500	0.97	2100	18000	20100	0.89	0.93	2526	0.097585	0.853094	0.684378	3.42189	0.27178
29_34	5/4/18	780	7100	7880	1.05	2000	18000	20000	1.21	1.13	2608	0.090485	0.848705	0.678802	3.394008	0.33294
29_35	6/5/18	830	7300	8130	0.75	2200	20000	22200	0.75	0.75	2640	0.087857	0.846999	0.676674	3.383372	0.221672
29_36	8/7/18	790	7900	8690	1.01	1600	17000	18600	1.22	1.115	2703	0.082903	0.843649	0.672563	3.362816	0.331567
29_37	10/7/18	1400	14000	15400	1.03	860	9200	10060	1.16	1.095	2764	0.078373	0.840418	0.668675	3.343376	0.327513
29_38	11/4/18	820	9200	10020	0.92	2100	22000	24100	1.25	1.085	2792	0.076377	0.838939	0.66692	3.334599	0.325376
29_39	12/19/18	1100	13000	14100	0.84	960	11000	11960	1.02	0.93	2837	0.073275	0.836568	0.664136	3.320679	0.280063
29_40	5/2/19	320	3800	4120	0.88	1300	16000	17300	1.16	1.02	2971	0.064766	0.829547	0.656102	3.280511	0.310927
29_41	6/1/19	440	5400	5840	0.99	1700	22000	23700	0.98	0.985	3001	0.063001	0.827983	0.654353	3.271766	0.301061
29_42	8/9/19	140	2000	2140	0.8	590	8900	9490	1.02	0.91	3070	0.059121	0.824397	0.650396	3.251978	0.27983
29_43	10/2/19	460	6300	6760	0.81	470	7200	7670	1.14	0.975	3124	0.056252	0.821602	0.647359	3.236795	0.301224
29_44	11/4/19	470	6800	7270	0.8	760	11000	11760	0.87	0.835	3157	0.054567	0.819898	0.645528	3.227641	0.258703
29_45	12/8/19	180	2900	3080	0.68	640	9800	10440	0.85	0.765	3191	0.052885	0.818146	0.643661	3.218306	0.237703
29_46	8/10/20	480	8800	9280	0.73	800	16000	16800	0.79	0.76	3437	0.042161	0.805584	0.63069	3.153452	0.241006
29_47	10/1/20	220	4300	4520	0.77	160	3400	3560	0.89	0.83	3489	0.040189	0.802954	0.628059	3.140297	0.264306
29_48	11/13/20	500	11000	11500	0.82	320	6800	7120	0.95	0.885	3532	0.038628	0.800785	0.625911	3.129553	0.282788
29_49	12/1/20	710	16000	16710	0.84	280	6600	6880	1.01	0.925	3550	0.037993	0.799879	0.625018	3.12509	0.295991
29_50	5/20/21	190	4900	5090	0.63	750	20000	20750	0.63	0.63	3720	0.032485	0.791371	0.61678	3.083902	0.204287
29_51	6/4/21	49	1300	1349	0.69	440	11000	11440	0.78	0.735	3735	0.032039	0.790625	0.616069	3.080347	0.238609
29_52	8/28/21	120	3000	3120	0.74	59	1500	1559	0.79	0.765	3820	0.029626	0.786409	0.612086	3.060429	0.249965
29_53	10/15/21	130	3500	3630	0.7	250	7700	7950	0.79	0.745	3868	0.028345	0.784038	0.609869	3.049346	0.244315
29_54	11/13/21	220	6600	6820	0.73	200	5500	5700	0.79	0.76	3897	0.027597	0.78261	0.608541	3.042705	0.249778
29_55	12/6/21	170	5100	5270	0.72	240	7800	8040	0.79	0.755	3920	0.027019	0.781478	0.607493	3.037467	0.248562
29_56	5/11/22	100	3700	3800	0.75	160	4700	4860	0.84	0.795	4076	0.023402	0.773848	0.600517	3.002585	0.264772
29_57	6/8/22	89	3100	3189	0.69	140	4900	5040	0.79	0.74	4104	0.022806	0.772486	0.599288	2.996438	0.24696
29_58	8/3/22	120	4200	4320	0.68	120	4100	4220	0.78	0.73	4160	0.021659	0.76977	0.596848	2.98424	0.244618
29_59	10/5/22	180	6000	6180	0.69	34	1500	1534	0.77	0.73	4223	0.020438	0.766725	0.594134	2.970669	0.245736
29_60	11/4/22	140	5800	5940	0.63	120	4500	4620	0.83	0.73	4253	0.019881	0.76528	0.592852	2.964261	0.246267
29_61	12/7/22	110	4200	4310	0.64	55	2400	2455	0.71	0.675	4286	0.019286	0.763693	0.59145	2.957251	0.228253
29_62	5/11/23	110	5100	5210	0.67	170	7800	7970	0.8	0.735	4441	0.016719	0.756284	0.584971	2.924854	0.251295
29_63	6/29/23	97	5600	5697	0.5	210	9700	9910	0.71	0.605	4490	0.015982	0.753956	0.582957	2.914784	0.207563
29_64	8/29/23	98	4600	4698	0.66	37	1700	1737	0.73	0.695	4551	0.015108	0.751069	0.580471	2.902356	0.239461
29_65	10/24/23	75	4300	4375	0.69	120	5800	5920	0.83	0.76	4607	0.014349	0.748428	0.57821	2.89105	0.26288
29_66	11/29/23	130	6400	6530	0.65	71	3900	3971	0.71	0.68	4643	0.01388	0.746735	0.576767	2.883833	0.235797
29_67	12/22/23	120	6400	6520	0.64	140	7300	7440	0.75	0.695	4666	0.013589	0.745656	0.575848	2.879242	0.241383
29_68	5/17/24	150	8000	8150	0.58	140	10000	10140	0.71	0.645	4813	0.011868	0.738793	0.570051	2.850256	0.226295
29_69	6/26/24	34	2500	2534	0.51	96	6500	6596	0.7	0.605	4853	0.011439	0.736936	0.568494	2.842471	0.212843
29_70	8/16/24	46	3200	3246	0.61	240	15000	15240	0.8	0.705	4904	0.010914	0.734576	0.566521	2.832607	0.248887

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
30_1	11/21/11	41000	52000	93000	6.67					6.67	252	0.792827	0.984274	1.001534	6.680233	0.998468
30_2	1/6/12	32000	42000	74000	6.77					6.77	298	0.759932	0.98143	0.989106	6.597337	1.026172
30_3	3/4/12	29000	40000	69000	6.31					6.31	356	0.720393	0.977856	0.974049	6.496904	0.971232
30_4	6/13/12	68	17000	26000	4.92					4.92	457	0.656389	0.971664	0.949361	6.332241	0.776976
30_5	7/3/12	30	5300	8300	5.22					5.22	477	0.644406	0.970442	0.944692	6.301095	0.828427
30_6	9/19/12	58	18000	29000	5.41					5.41	555	0.599726	0.965693	0.927131	6.183966	0.874843
30_7	11/14/12	39	8700	15000	4.91	46	9100	16000	3.68	4.295	611	0.569571	0.962297	0.915134	6.103944	0.703643
30_8	12/26/12	44	7900	14000	4.44	36	6200	11000	3.28	3.86	653	0.547954	0.959758	0.906453	6.046044	0.638434
30_9	5/22/13	11000	22000	33000	4.116	6800	14000	20800	3.312	3.714	800	0.478555	0.950925	0.878061	5.856668	0.634149
30_10	6/25/13	9100	19000	28100	3.696	8900	19000	27900	2.972	3.334	834	0.463798	0.948894	0.871907	5.815617	0.573284
30_11	8/29/13	15000	33000	48000	3.622	4200	9300	13500	2.818	3.22	899	0.436841	0.945022	0.86054	5.739805	0.560995
30_12	10/4/13	16000	36000	52000	3.742	3200	7400	10600	3.478	3.61	935	0.422591	0.942884	0.854462	5.699264	0.633415
30_13	12/11/13	8400	20000	28400	3.818	6700	16000	22700	3.01	3.414	1003	0.396931	0.93886	0.843383	5.625366	0.606894
30_14	2/7/14	9200	23000	32200	3.324	2700	6700	9400	2.124	2.724	1061	0.376279	0.935441	0.834328	5.564971	0.48949
30_15	5/16/14	7800	22000	29800	3.69	3300	9300	12600	2.4	3.045	1159	0.343796	0.929693	0.819802	5.46808	0.556868
30_16	6/11/14	24000	68000	92000	3.62	3800	10000	13800	3.08	3.35	1185	0.33566	0.928174	0.816103	5.443405	0.615424
30_17	8/5/14	8500	25000	33500	3.52	3900	11000	14900	3.03	3.275	1240	0.319076	0.924968	0.808479	5.392555	0.607319
30_18	10/2/14	9900	31000	40900	3.63	6000	19000	25000	3.28	3.455	1298	0.302475	0.9216	0.800725	5.340835	0.646903
30_19	12/2/14	11000	36000	47000	3.43	5100	16000	21100	2.45	2.94	1359	0.285946	0.91807	0.79287	5.288443	0.555929
30_20	2/3/15	11000	39000	50000	3.12	2300	8100	10400	2.33	2.725	1422	0.269823	0.91444	0.785064	5.236375	0.520398
30_21	5/20/15	6600	23000	29600	2.51	2000	6600	8600	1.94	2.225	1528	0.24472	0.908363	0.772585	5.153141	0.431775
30_22	6/16/15	6800	26000	32800	2.67	2500	9100	11600	1.66	2.165	1555	0.238708	0.906822	0.76953	5.132767	0.4218
30_23	9/2/15	9800	39000	48800	2.32	3400	13000	16400	1.68	2	1633	0.222158	0.902383	0.760972	5.075682	0.394036
30_24	10/5/15	8100	31000	39100	2.35	5500	22000	27500	1.82	2.085	1666	0.215505	0.900512	0.757465	5.052292	0.412684
30_25	12/5/15	8000	34000	42000	2.33	2200	8900	11100	1.82	2.075	1727	0.203729	0.897064	0.751153	5.010188	0.414156
30_26	2/6/16	6000	26000	32000	2.03	1700	7700	9400	1.4	1.715	1790	0.192242	0.893516	0.744854	4.968177	0.345197
30_27	5/11/16	2500	13000	15500	2.04	2700	13000	15700	1.47	1.755	1885	0.176133	0.888193	0.735755	4.907484	0.357617
30_28	6/18/16	4100	20000	24100	2.01	2800	14000	16800	1.57	1.79	1923	0.170073	0.886072	0.732242	4.884051	0.366499
30_29	8/7/16	5600	29000	34600	2.01	1500	8000	9500	1.28	1.645	1973	0.162417	0.88329	0.727724	4.853916	0.338902
30_30	10/25/16	7500	41000	48500	1.93	1400	8500	9900	1.27	1.6	2052	0.151017	0.878912	0.720815	4.807839	0.33279
30_31	12/20/16	5000	30000	35000	2.27	1900	12000	13900	1.64	1.955	2108	0.143424	0.875821	0.716081	4.776259	0.409316
30_32	2/15/17	4600	28000	32600	2.23	8300	53000	61300	1.6	1.915	2165	0.136087	0.872687	0.711392	4.744986	0.403584
30_33	5/30/17	2200	15000	17200	1.57	1100	7200	8300	1.28	1.425	2269	0.123654	0.866997	0.703157	4.690056	0.303834
30_34	6/18/17	1700	12000	13700	1.66	1400	9700	11100	1.09	1.375	2288	0.121508	0.865961	0.701695	4.680303	0.293784
30_35	8/22/17	5600	41000	46600	1.76	2500	18000	20500	1.31	1.535	2353	0.114446	0.862428	0.696786	4.647561	0.330281
30_36	10/27/17	3100	24000	27100	1.54	840	6400	7240	1.16	1.35	2419	0.107695	0.858855	0.691944	4.615264	0.292508
30_37	12/3/17	1300	10000	11300	1.55	3700	28000	31700	1.07	1.31	2456	0.104086	0.856859	0.689289	4.597556	0.284934
30_38	2/16/18	1700	15000	16700	1.67	1000	8500	9500	1.23	1.45	2531	0.097137	0.852826	0.684033	4.562497	0.317808
30_39	5/6/18	2100	19000	21100	1.42	900	7700	8600	1.55	1.485	2610	0.090319	0.848599	0.678668	4.526715	0.328052
30_40	6/10/18	1900	17000	18900	1.09	1800	16000	17800	1.13	1.11	2645	0.087453	0.846732	0.676345	4.511218	0.246053
30_41	8/11/18	1400	13000	14400	1.31	8000	79000	87000	1.12	1.215	2707	0.082598	0.843437	0.672306	4.484278	0.270947
30_42	10/12/18	2900	29000	31900	1.39	2500	27000	29500	1.18	1.285	2769	0.078013	0.840154	0.66836	4.457964	0.288248
30_43	11/4/18	2500	29000	31500	1.45	1600	17000	18600	1.42	1.435	2792	0.076377	0.838939	0.66692	4.448355	0.322591
30_44	12/1/18	1800	22000	23800	1.38	2200	25000	27200	1.08	1.23	2819	0.074501	0.837516	0.665244	4.437177	0.277203
30_45	5/2/19	2000	25000	27000	1.31	2800	35000	37800	1.3	1.305	2971	0.064766	0.829547	0.656102	4.376201	0.298204
30_46	6/1/19	1900	24000	25900	1.39	1700	23000	24700	1.3	1.345	3001	0.063001	0.827983	0.654353	4.364536	0.308166
30_47	8/10/19	1600	21000	22600	1.32	2000	28000	30000	1.29	1.305	3071	0.059066	0.824345	0.650339	4.337761	0.300846
30_48	10/1/19	1100	16000	17100	1.15	3200	45000	48200	1.01	1.08	3123	0.056303	0.821653	0.647415	4.318256	0.250101
30_49	11/12/19	900	13000	13900	0.97	360	5200	5560	0.68	0.825	3165	0.054166	0.819486	0.645087	4.302731	0.191739
30_50	12/8/19	910	14000	14910	0.96	410	6600	7010	0.77	0.865	3191	0.052885	0.818146	0.643661	4.293221	0.20148
30_51	8/9/20	320	6000	6320	0.8	89	1700	1789	0.61	0.705	3436	0.0422	0.805635	0.630741	4.207045	0.167576
30_52	10/9/20	30	510	540	0.48	140	2800	2940	0.58	0.53	3497	0.039894	0.80255	0.627658	4.186477	0.126598
30_53	11/13/20	370	7700	8070	0.91	240	5400	5640	0.65	0.78	3532	0.038628	0.800785	0.625911	4.174823	0.186834
30_54	12/2/20	25	560	585	0.64	150	3400	3550	0.71	0.675	3551	0.037958	0.799829	0.624969	4.16854	0.161927
30_55	5/19/21	62	1300	1362	0.75	25	670	695	0.62	0.685	3719	0.032515	0.791421	0.616828	4.114242	0.166495
30_56	6/5/21	18	470	488	0.71	46	1300	1346	0.64	0.675	3736	0.03201	0.790575	0.616022	4.108867	0.164279
30_57	8/4/21	21	550	571	0.71	200	4700	4900	0.61	0.66	3796	0.030288	0.787597	0.613203	4.090083	0.161367
30_58	10/18/21	20	560	580	0.68	300	9100	9400	0.58	0.63	3871	0.028266	0.783891	0.609731	4.066908	0.154909
30_59	11/13/21	28	870	898	0.67	200	6400	6600	0.58	0.625	3897	0.027597	0.78261	0.608541	4.058969	0.15398
30_60	12/6/21	44	1700	1744	0.55	130	4000	4130	0.6	0.575	3920	0.027019	0.781478	0.607493	4.051981	0.141906
30_61	5/11/22	34	880	914	0.68	75	2600	2675	0.61	0.645	4076	0.023402	0.773848	0.600517	4.005449	0.161031
30_62	6/8/22	82	2600	2682	0.59	73	2900	2973	0.6	0.595	4104	0.022806	0.772486	0.599288	3.997248	0.148852
30_63	8/3/22	300	12000	12300	0.48	120	4700	4820	0.58	0.53	4160	0.021659	0.76977	0.596848	3.980976	0.133133
30_64	10/6/22	11	580	591	0.48	100	4100	4200	0.52	0.5	4224	0.020419	0.766677	0.594091	3.962587	0.12618
30_65	11/5/22	16	600	616	0.42	130	5800	5930	0.4	0.41	4254	0.019863	0.765232	0.59281	3.95404	0.103691
30_66	12/7/22	15	570	585	0.57	150	5500	5650	0.51	0.54	4286	0.019286	0.763693	0.59145	3.944973	0.136883
30_67	5/12/23	12	570	582	0.42	69	3200	3269	0.52	0.47	4442	0.016704	0.756236	0.584929	3.90148	0.120467
30_68	6/20/23	30	2000	2030	0.6	60	2200	2260	0.5	0.55	4481	0.016115	0.754383	0.583325	3.890781	0.14136
30_69	8/28/23	110	6000	6110	0.34	150	7300	7450	0.5	0.42	4550	0.015122	0.751116	0.580512	3.872014	0.108471
30_70	10/24/23	18	890	908	0.43	150	8200	8350	0.64	0.535	4607	0.014349	0.748428	0.57821	3.856661	0.138721
30_71	11/28/23	16	790	806	0.49	290	16000	16290	0.55	0.52	4642	0.013893	0.746782	0.576807	3.8473	0.13516
30_72	12/26/23	11	640	651	0.38	19	1100	1119	0.49	0.435	4670	0.013539	0.745468	0.575689	3.839845	0.113286
30_73	5/2/24	18	1400	1418	0.38	140	7600	7740	0.57	0.475	4798	0.012033	0.73949	0.570637	3.80615	0.124798
30_74	6/26/24	24	1300	1324	0.34	78	5400	5478	0.52	0.43	4853	0.011439	0.736936	0.568494	3.791857	0.113401
30_75	8/16/24	11	770	781	0.34	50	3100	3150	0.49	0.415	4904	0.010914	0.734576	0.566521	3.778697	0.109826

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
31_1	11/21/11	3300	4100	7400	3.01					3.01	252	0.792827	0.984274	1.001534	3.014618	0.998468
31_2	1/6/12	6100	8000	14100	3.01					3.01	298	0.759932	0.98143	0.989106	2.977209	1.011014
31_3	3/4/12	9300	13000	22300	2.72					2.72	356	0.720393	0.977856	0.974049	2.931886	0.92773
31_4	6/13/12	23	3600	5600	2.27					2.27	457	0.656389	0.971664	0.949361	2.857578	0.794379
31_5	7/3/12	45	14000	22000	2.4					2.4	477	0.644406	0.970442	0.944692	2.843523	0.844024
31_6	9/19/12	35	10000	17000	2.16					2.16	555	0.599726	0.965693	0.927131	2.790666	0.774009
31_7	11/14/12	30	5000	8600	2.2	17	1900	3400	1.02	1.61	611	0.569571	0.962297	0.915134	2.754553	0.584487
31_8	12/26/12	29	4000	7200	2.04	20	2100	4000	0.93	1.485	653	0.547954	0.959758	0.906453	2.728425	0.54427
31_9	5/22/13	2800	5700	8500	1.768	1000	2200	3200	1.112	1.44	800	0.478555	0.950925	0.878061	2.642964	0.544843
31_10	6/25/13	5800	12000	17800	0.696	2100	4500	6600	1.044	0.87	834	0.463798	0.948894	0.871907	2.624439	0.331499
31_11	8/29/13	4900	11000	15900	1.48	1600	3500	5100	0.856	1.168	899	0.436841	0.945022	0.86054	2.590227	0.450926
31_12	10/4/13	1800	4100	5900	1.602	1600	3600	5200	0.87	1.236	935	0.422591	0.942884	0.854462	2.571932	0.480573
31_13	12/11/13	3800	9100	12900	1.652	1200	2900	4100	1.008	1.33	1003	0.396931	0.93886	0.843383	2.538583	0.523914
31_14	2/7/14	3400	8600	12000	1.382	1500	3700	5200	0.922	1.152	1061	0.376279	0.935441	0.834328	2.511329	0.458721
31_15	5/16/14	1900	5500	7400	1.44	1800	5000	6800	0.92	1.18	1159	0.343796	0.929693	0.819802	2.467605	0.478197
31_16	6/11/14	3600	10000	13600	1.4	1200	3400	4600	0.81	1.105	1185	0.33566	0.928174	0.816103	2.456469	0.449833
31_17	8/5/14	2500	7500	10000	1.33	1700	5000	6700	0.73	1.03	1240	0.319076	0.924968	0.808479	2.433522	0.423255
31_18	10/2/14	2000	6100	8100	1.41	1400	4300	5700	0.74	1.075	1298	0.302475	0.9216	0.800725	2.410182	0.446024
31_19	12/2/14	4300	14000	18300	1.3	1700	5600	7300	1.27	1.285	1359	0.285946	0.91807	0.79287	2.386539	0.538437
31_20	2/3/15	4100	15000	19100	1.24	590	2100	2690	0.7	0.97	1422	0.269823	0.91444	0.785064	2.363042	0.410488
31_21	5/20/15	1200	4100	5300	1.02	530	1900	2430	0.47	0.745	1528	0.24472	0.908363	0.772585	2.32548	0.320364
31_22	6/16/15	1300	4900	6200	1.01	660	2500	3160	0.41	0.71	1555	0.238708	0.906822	0.76953	2.316286	0.306525
31_23	9/2/15	1500	6400	7900	0.88	690	2800	3490	0.39	0.635	1633	0.222158	0.902383	0.760972	2.290525	0.277229
31_24	10/5/15	1500	6300	7800	0.89	570	2500	3070	0.53	0.71	1666	0.215505	0.900512	0.757465	2.27997	0.311408
31_25	12/5/15	1200	5500	6700	0.89	670	2700	3370	0.38	0.635	1727	0.203729	0.897064	0.751153	2.260969	0.280853
31_26	2/6/16	1200	5700	6900	0.82	690	3100	3790	0.39	0.605	1790	0.192242	0.893516	0.744854	2.242011	0.269847
31_27	5/11/16	1800	9500	11300	0.8	460	2500	2960	0.33	0.565	1885	0.176133	0.888193	0.735755	2.214622	0.255123
31_28	6/18/16	1600	8200	9800	0.85	190	940	1130	0.27	0.56	1923	0.170073	0.886072	0.732242	2.204047	0.254078
31_29	8/7/16	1500	8100	9600	1	370	2100	2470	0.31	0.655	1973	0.162417	0.88329	0.727724	2.190448	0.299026
31_30	10/25/16	1600	8800	10400	0.63	390	2100	2490	0.28	0.455	2052	0.151017	0.878912	0.720815	2.169655	0.209711
31_31	12/4/16	740	4500	5240	0.63	380	2500	2880	0.32	0.475	2092	0.145553	0.876703	0.71742	2.159435	0.219965
31_32	2/15/17	5800	37000	42800	0.8	420	2600	3020	0.32	0.56	2165	0.136087	0.872687	0.711392	2.141291	0.261525
31_33	5/30/17	850	6000	6850	0.33	350	2200	2550	0.23	0.28	2269	0.123654	0.866997	0.703157	2.116502	0.132294
31_34	6/18/17	750	4900	5650	0.35	76	570	646	0.22	0.285	2288	0.121508	0.865961	0.701695	2.112101	0.134937
31_35	8/22/17	740	5600	6340	0.22	390	3100	3490	0.39	0.305	2353	0.114446	0.862428	0.696786	2.097325	0.145423
31_36	10/27/17	77	550	627	0.23	480	4100	4580	0.25	0.24	2419	0.107695	0.858855	0.691944	2.08275	0.115232
31_37	12/3/17	260	2100	2360	0.24	92	820	912	0.18	0.21	2456	0.104086	0.856859	0.689289	2.074759	0.101217
31_38	2/16/18	69	570	639	0.19	330	3100	3430	0.31	0.25	2531	0.097137	0.852826	0.684033	2.058938	0.121422
31_39	5/4/18	53	650	703	0.16	11	150	161	0.09	0.125	2608	0.090485	0.848705	0.678802	2.043193	0.061179
31_40	6/10/18	18	210	228	0.12	16	130	146	0.09	0.105	2645	0.087453	0.846732	0.676345	2.035797	0.051577
31_41	8/11/18	100	1000	1100	0.13	16	190	206	0.07	0.1	2707	0.082598	0.843437	0.672306	2.02364	0.049416
31_42	10/7/18	55	640	695	0.13	15	140	155	0.11	0.12	2764	0.078373	0.840418	0.668675	2.012712	0.059621
31_43	11/4/18	91	960	1051	0.17	28	290	318	0.13	0.15	2792	0.076377	0.838939	0.66692	2.007429	0.074722
31_44	12/1/18	37	450	487	0.14	8.8	87	95.8	0.1	0.12	2819	0.074501	0.837516	0.665244	2.002384	0.059929
31_45	5/2/19	30	370	400	0.2	16	160	176	0.09	0.145	2971	0.064766	0.829547	0.656102	1.974867	0.073423
31_46	6/2/19	30	420	450	0.21	16	180	196	0.08	0.145	3002	0.062943	0.827931	0.654295	1.969429	0.073625
31_47	8/14/19	17	310	327	0.21	130	1600	1730	0.1	0.155	3075	0.058849	0.824138	0.650112	1.956838	0.079209
31_48	10/2/19	12	200	212	0.19	17	200	217	0.09	0.14	3124	0.056252	0.821602	0.647359	1.94855	0.071848
31_49	11/4/19	30	420	450	0.19	46	750	796	0.09	0.14	3157	0.054567	0.819898	0.645528	1.94304	0.072052
31_50	12/1/19	10	170	180	0.2	74	1300	1374	0.11	0.155	3184	0.053227	0.818507	0.644044	1.938573	0.079956
31_51	8/9/20	7.4	81	81	0.12	6.6	57	57	0.09	0.105	3436	0.0422	0.805635	0.630741	1.898531	0.055306
31_52	10/4/20	7.4	120	127.4	0.12	8.7	97	97	0.11	0.115	3492	0.040078	0.802802	0.627909	1.890005	0.060846
31_53	11/8/20	6.9	100	100	0.11	7.8	75	75	0.07	0.09	3527	0.038806	0.801037	0.626159	1.884739	0.047752
31_54	12/1/20	8	50	50	0.14	8.2	110	110	0.1	0.12	3550	0.037993	0.799879	0.625018	1.881304	0.063786
31_55	5/19/21	9.3	130	130	0.11	35	960	995	0.03	0.07	3719	0.032515	0.791421	0.616828	1.856652	0.037702
31_56	6/5/21	11	360	371	0.12	32	860	892	0.09	0.105	3736	0.03201	0.790575	0.616022	1.854226	0.056627
31_57	8/4/21	9.2	30	30	0.1	7.6	92	92	0.1	0.1	3796	0.030288	0.787597	0.613203	1.845741	0.054179
31_58	10/18/21	8.2	17	17	0.12	7.7	140	140	0.09	0.105	3871	0.028266	0.783891	0.609731	1.835291	0.057212
31_59	11/13/21	6.1	19	19	0.11	8.1	140	140	0.09	0.1	3897	0.027597	0.78261	0.608541	1.831708	0.054594
31_60	12/6/21	8.3	38	38	0.12	7.7	120	120	0.1	0.11	3920	0.027019	0.781478	0.607493	1.828555	0.060157
31_61	5/11/22	7.9	61	61	0.12	8.7	300	300	0.09	0.105	4076	0.023402	0.773848	0.600517	1.807556	0.058089
31_62	6/8/22	7.4	38	38	0.09	6.3	170	170	0.08	0.085	4104	0.022806	0.772486	0.599288	1.803855	0.047121
31_63	8/3/22	8.9	54	54	0.1	7.8	200	200	0.07	0.085	4160	0.021659	0.76977	0.596848	1.796513	0.047314
31_64	10/6/22	6.5	45	45	0.1	9	210	210	0.07	0.085	4224	0.020419	0.766677	0.594091	1.788214	0.047533
31_65	11/5/22	6.6	25	25	0.11	7.5	260	260	0.11	0.11	4254	0.019863	0.765232	0.59281	1.784357	0.061647
31_66	12/7/22	5.8	160	160	0.14	9.5	230	230	0.08	0.11	4286	0.019286	0.763693	0.59145	1.780265	0.061789
31_67	5/12/23	8.4	220	220	0.11	7.6	12	12	0.09	0.1	4442	0.016704	0.756236	0.584929	1.760638	0.056798
31_68	6/20/23	8.4	56	56	0.11	9.1	150	150	0.08	0.095	4481	0.016115	0.754383	0.583325	1.75581	0.054106
31_69	8/25/23	9.4	100	100	0.08	8.8	190	190	0.07	0.075	4547	0.015164	0.751258	0.580634	1.747707	0.042913
31_70	10/24/23	6.3	75	75	0.12	8.6	200	200	0.11	0.115	4607	0.014349	0.748428	0.57821	1.740412	0.066076
31_71	11/28/23	9.2	33	33	0.1	9.4	320	329.4	0.1	0.1	4642	0.013893	0.746782	0.576807	1.736188	0.057597
31_72	12/26/23	8.9	29	29	0.12	9.5	210	210	0.11	0.115	4670	0.013539	0.745468	0.575689	1.732824	0.066366
31_73	5/2/24	8.2	79	79	0.1	7.9	210	210	0.1	0.1	4798	0.012033	0.73949	0.570637	1.717618	0.05822
31_74	6/26/24	10	110	110	0.11	9	240	240	0.1	0.105	4853	0.011439	0.736936	0.568494	1.711168	0.061362
31_75	8/16/24	7.7	60	60	0.09	7.2	200	200	0.08	0.085	4904	0.010914	0.734576	0.566521	1.705229	0.049847

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
32_1	11/21/11					3700	4700	8400	0.93	0.93	252	0.792827	0.984274	1.001534	0.931427	0.998468
32_2	1/6/12					1200	1700	2900	0.82	0.82	298	0.759932	0.98143	0.989106	0.919869	0.891432
32_3	3/4/12					5700	7800	13500	0.76	0.76	356	0.720393	0.977856	0.974049	0.905865	0.838977
32_4	6/12/12					13	930	1400	0.77	0.77	456	0.656994	0.971725	0.949597	0.883125	0.871904
32_5	7/3/12					14	1200	1900	0.68	0.68	477	0.644406	0.970442	0.944692	0.878563	0.773991
32_6	8/23/12					9.2	390	610	0.7	0.7	528	0.61483	0.967334	0.933095	0.867779	0.806657
32_7	11/19/12	8.4	330	560	1.06	20	1900	3400	0.77	0.915	616	0.566954	0.961995	0.914087	0.850101	1.076343
32_8	12/18/12	7.3	300	530	1.02	18	1600	2800	0.67	0.845	645	0.552008	0.960241	0.908086	0.84452	1.000568
32_9	5/31/13	1600	3200	4800	0.864	2100	4300	6400	0.742	0.803	809	0.474604	0.950387	0.876418	0.815088	0.985193
32_10	6/25/13	560	1100	1660	0.99	1800	3800	5600	0.628	0.809	834	0.463798	0.948894	0.871907	0.810873	0.99769
32_11	8/28/13	4700	10000	14700	0.628	1900	4300	6200	0.594	0.611	898	0.437244	0.945081	0.860711	0.800462	0.76331
32_12	10/4/13	4700	11000	15700	0.736	850	2100	2950	0.58	0.658	935	0.422591	0.942884	0.854462	0.79465	0.828037
32_13	12/11/13	5300	13000	18300	0.698	2300	5500	7800	0.646	0.672	1003	0.396931	0.93886	0.843383	0.784346	0.856764
32_14	2/13/14	2300	5700	8000	0.634	1400	3500	4900	0.436	0.535	1067	0.374205	0.935088	0.833412	0.775073	0.690258
32_15	5/16/14	4300	12000	16300	0.71	2000	5700	7700	0.54	0.625	1159	0.343796	0.929693	0.819802	0.762416	0.819762
32_16	6/11/14	6000	16000	22000	0.76	1600	4200	5800	0.44	0.6	1185	0.33566	0.928174	0.816103	0.758975	0.790539
32_17	8/4/14	12000	35000	47000	0.64	1200	3200	4400	0.45	0.545	1239	0.31937	0.925026	0.808615	0.752012	0.724722
32_18	10/1/14	1200	3900	5100	0.91	1500	4900	6400	0.45	0.68	1297	0.302754	0.921658	0.800856	0.744796	0.913001
32_19	12/1/14	2600	8900	11500	0.85	1400	4500	5900	0.44	0.645	1358	0.28621	0.918128	0.792996	0.737487	0.874592
32_20	2/2/15	1000	3500	4500	0.82	3500	12000	15500	0.43	0.625	1421	0.270072	0.914497	0.785185	0.730222	0.855904
32_21	5/16/15	1400	4800	6200	0.5	600	2100	2700	0.36	0.43	1524	0.245624	0.908592	0.773042	0.718929	0.598112
32_22	6/15/15	3600	13000	16600	0.44	1500	5200	6700	0.33	0.385	1554	0.238928	0.906879	0.769643	0.715768	0.537884
32_23	8/13/15	2200	8800	11000	0.4	1500	6100	7600	0.3	0.35	1613	0.226289	0.903519	0.76313	0.709711	0.493159
32_24	10/8/15	3700	15000	18700	0.48	2000	8100	10100	0.32	0.4	1669	0.214911	0.900342	0.75715	0.704149	0.568082
32_25	12/12/15	3200	13000	16200	0.41	1200	4900	6100	0.29	0.35	1734	0.20242	0.896669	0.750442	0.697911	0.501497
32_26	2/8/16	2800	12000	14800	0.51	1100	5100	6200	0.28	0.395	1792	0.191888	0.893404	0.744658	0.692532	0.570371
32_27	5/25/16	330	1800	2130	0.54	680	3600	4280	0.3	0.42	1899	0.173875	0.887411	0.734452	0.683041	0.614898
32_28	6/15/16	590	3200	3790	0.55	490	2600	3090	0.29	0.42	1920	0.170544	0.88624	0.732516	0.68124	0.616523
32_29	8/24/16	1500	8200	9700	0.56	730	4100	4830	0.3	0.43	1990	0.159893	0.882346	0.726214	0.675379	0.63668
32_30	10/10/16	730	3900	4630	0.55	910	5300	6210	0.32	0.435	2037	0.153118	0.879741	0.722106	0.671559	0.647747
32_31	12/20/16	1100	6700	7800	0.48	730	4200	4930	0.32	0.4	2108	0.143424	0.875821	0.716081	0.665955	0.600641
32_32	2/19/17	760	4900	5660	0.44	720	4500	5220	0.29	0.365	2169	0.135586	0.872467	0.711068	0.661293	0.551949
32_33	5/24/17	1300	8100	9400	0.51	570	4000	4570	0.28	0.395	2263	0.124339	0.867324	0.703621	0.654368	0.603636
32_34	6/19/17	820	5600	6420	0.46	450	3100	3550	0.24	0.35	2289	0.121396	0.865907	0.701618	0.652505	0.536395
32_35	8/26/17	890	6700	7590	0.3	550	4200	4750	0.22	0.26	2357	0.114025	0.862211	0.696488	0.647734	0.401399
32_36	10/28/17	890	6900	7790	0.3	570	4500	5070	0.23	0.265	2420	0.107595	0.858801	0.691871	0.64344	0.411849
32_37	12/11/17	300	2600	2900	0.28	190	1600	1790	0.23	0.255	2464	0.103321	0.856428	0.68872	0.64051	0.39812
32_38	2/16/18	530	4500	5030	0.37	330	2800	3130	0.22	0.295	2531	0.097137	0.852826	0.684033	0.63615	0.463727
32_39	5/20/18	280	2900	3180	0.38	370	3600	3970	0.21	0.295	2624	0.089161	0.847852	0.677735	0.630293	0.468036
32_40	6/18/18	810	7500	8310	0.32	430	4300	4730	0.24	0.28	2653	0.086811	0.846306	0.675818	0.628511	0.445498
32_41	8/18/18	740	7800	8540	0.35	390	3800	4190	0.24	0.295	2714	0.082067	0.843066	0.671856	0.624826	0.472132
32_42	10/9/18	750	7500	8250	0.34	390	4300	4690	0.24	0.29	2766	0.078228	0.840313	0.668549	0.621751	0.466425
32_43	11/11/18	640	6800	7440	0.29	450	4700	5150	0.23	0.26	2799	0.075886	0.83857	0.666484	0.61983	0.41947
32_44	12/10/18	870	9800	10670	0.28	430	4500	4930	0.22	0.25	2828	0.073886	0.837042	0.664689	0.618161	0.404426
32_45	5/3/19	390	5000	5390	0.29	310	3900	4210	0.23	0.26	2972	0.064706	0.829494	0.656044	0.61012	0.426145
32_46	6/12/19	540	7500	8040	0.25	170	2300	2470	0.22	0.235	3012	0.062365	0.82741	0.653716	0.607956	0.386541
32_47	8/3/19	510	7100	7610	0.28	380	5200	5580	0.21	0.245	3064	0.059448	0.824708	0.650736	0.605185	0.404835
32_48	10/17/19	560	8900	9460	0.3	260	4200	4460	0.2	0.25	3139	0.05548	0.820827	0.646524	0.601268	0.415788
32_49	11/12/19	470	7200	7670	0.33	220	3300	3520	0.22	0.275	3165	0.054166	0.819486	0.645087	0.599931	0.458386
32_50	12/10/19	410	6700	7110	0.3	170	2500	2670	0.2	0.25	3193	0.052787	0.818044	0.643552	0.598503	0.417709
32_51	8/1/20	230	4200	4430	0.29	180	3400	3580	0.18	0.235	3428	0.042512	0.806041	0.631149	0.586969	0.400362
32_52	10/11/20	240	4900	5140	0.26	140	3000	3140	0.19	0.225	3499	0.03982	0.802449	0.627558	0.583628	0.385519
32_53	11/11/20	490	10000	10490	0.32	150	3500	3650	0.2	0.26	3530	0.038699	0.800886	0.62601	0.582189	0.44659
32_54	12/7/20	370	8500	8870	0.31	120	2500	2620	0.19	0.25	3556	0.037783	0.799577	0.624721	0.580991	0.430299
32_55	5/20/21	130	3400	3530	0.23	310	7400	7710	0.14	0.185	3720	0.032485	0.791371	0.61678	0.573606	0.322521
32_56	6/5/21	74	2200	2274	0.3	210	5500	5710	0.19	0.245	3736	0.03201	0.790575	0.616022	0.572901	0.427648
32_57	8/3/21	83	2300	2383	0.26	150	4300	4450	0.19	0.225	3795	0.030316	0.787647	0.61325	0.570322	0.394514
32_58	10/18/21	190	5300	5490	0.26	120	3300	3420	0.19	0.225	3871	0.028266	0.783891	0.609731	0.56705	0.39679
32_59	11/15/21	200	5500	5700	0.25	75	2700	2775	0.18	0.215	3899	0.027547	0.782511	0.60845	0.565858	0.379954
32_60	12/7/21	220	6700	6920	0.23	87	2200	2287	0.21	0.22	3921	0.026994	0.781429	0.607448	0.564927	0.389431
32_61	5/11/22	23	970	993	0.27	70	2500	2570	0.19	0.23	4076	0.023402	0.773848	0.600517	0.558481	0.411831
32_62	6/8/22	160	6100	6260	0.25	76	2800	2876	0.18	0.215	4104	0.022806	0.772486	0.599288	0.557337	0.385763
32_63	8/3/22	370	13000	13370	0.23	50	2800	2850	0.18	0.205	4160	0.021659	0.76977	0.596848	0.555069	0.369324
32_64	10/6/22	45	1600	1645	0.22	110	4300	4410	0.18	0.2	4224	0.020419	0.766677	0.594091	0.552505	0.361988
32_65	11/5/22	130	5100	5230	0.22	100	4700	4800	0.13	0.175	4254	0.019863	0.765232	0.59281	0.551313	0.317424
32_66	12/8/22	120	4300	4420	0.27	77	3500	3577	0.15	0.21	4287	0.019268	0.763645	0.591408	0.550009	0.381812
32_67	5/12/23	170	8300	8470	0.24	110	4900	5010	0.17	0.205	4442	0.016704	0.756236	0.584929	0.543984	0.376849
32_68	6/20/23	110	6100	6210	0.22	58	2700	2758	0.16	0.19	4481	0.016115	0.754383	0.583325	0.542493	0.350235
32_69	8/25/23	99	5000	5099	0.21	48	2900	2948	0.17	0.19	4547	0.015164	0.751258	0.580634	0.539989	0.351859
32_70	10/20/23	84	4400	4484	0.25	23	1600	1623	0.15	0.2	4603	0.014402	0.748616	0.578371	0.537885	0.371827
32_71	11/28/23	180	10000	10180	0.25	25	1500	1525	0.17	0.21	4642	0.013893	0.746782	0.576807	0.53643	0.391477
32_72	12/27/23	200	9900	10100	0.24	50	3700	3750	0.2	0.22	4671	0.013527	0.745421	0.575649	0.535354	0.410943
32_73	5/22/24	89	7300	7389	0.25	42	2800	2842	0.18	0.215	4818	0.011814	0.738561	0.569856	0.529966	0.405686
32_74	6/26/24	120	6600	6720	0.21	26	2000	2026	0.17	0.19	4853	0.011439	0.736936	0.568494	0.5287	0.359372
32_75	8/16/24	18	1000	1018	0.21	23	1700	1723	0.16	0.185	4904	0.010914	0.734576	0.566521	0.526885	0.351134

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
33_1	8/30/12	13	990	1600	0.92	16	1400	2300	0.72	0.82	535	0.610878	0.966908	0.931538	0.763861	1.073494
33_2	9/20/12	20	1500	2500	1.01	16	1100	2000	0.65	0.83	556	0.599174	0.965632	0.926913	0.760068	1.092007
33_3	10/16/12	17	1600	2600	0.68	13	680	1100	0.7	0.69	582	0.584993	0.964054	0.921285	0.755454	0.913358
33_4	11/19/12	22	2400	4100	0.76	17	1600	2700	0.7	0.73	616	0.566954	0.961995	0.914087	0.749551	0.973916
33_5	12/26/12	17	1100	2000	0.75	15	1200	2300	0.55	0.65	653	0.547954	0.959758	0.906453	0.743292	0.874488
33_6	5/31/13	830	1700	2530	0.624	440	920	1360	0.416	0.52	809	0.474604	0.950387	0.876418	0.718662	0.723566
33_7	6/27/13	510	1000	1510	0.526	870	1900	2770	0.394	0.46	836	0.462944	0.948774	0.871549	0.71467	0.643654
33_8	8/29/13	1000	2100	3100	0.524	250	540	790	0.314	0.419	899	0.436841	0.945022	0.86054	0.705643	0.593785
33_9	10/3/13	900	2100	3000	0.56	100	230	330	0.314	0.437	934	0.422981	0.942944	0.854629	0.700796	0.623577
33_10	12/13/13	740	1800	2540	0.58	190	420	610	0.35	0.465	1005	0.3962	0.938742	0.843065	0.691313	0.672633
33_11	5/15/14	790	2100	2890	0.58	140	400	540	0.32	0.45	1158	0.344113	0.929751	0.819946	0.672355	0.669289
33_12	6/16/14	1100	3400	4500	0.57	54	180	234	0.34	0.455	1190	0.334117	0.927882	0.815398	0.668627	0.680499
33_13	8/7/14	820	2400	3220	0.47	54	180	234	0.35	0.41	1242	0.318489	0.924852	0.808207	0.66273	0.618654
33_14	10/9/14	850	2700	3550	0.47	210	730	940	0.33	0.4	1305	0.300531	0.921194	0.799808	0.655843	0.609902
33_15	12/4/14	750	2400	3150	0.51	190	570	760	0.32	0.415	1361	0.28542	0.917955	0.792618	0.649946	0.638514
33_16	5/18/15	510	2000	2510	0.47	300	1100	1400	0.28	0.375	1526	0.245172	0.908477	0.772813	0.633707	0.591756
33_17	6/8/15	1100	4100	5200	0.45	65	260	325	0.28	0.365	1547	0.240474	0.907278	0.77043	0.631753	0.577758
33_18	8/12/15	400	1600	2000	0.38	130	430	560	0.2	0.29	1612	0.226497	0.903576	0.763238	0.625855	0.463366
33_19	10/4/15	660	2600	3260	0.36	8.6	32	40.6	0.25	0.305	1665	0.215704	0.900569	0.75757	0.621208	0.490979
33_20	12/10/15	710	3200	3910	0.36	120	480	600	0.21	0.285	1732	0.202793	0.896782	0.750645	0.615529	0.463017
33_21	2/1/16	400	1700	2100	0.2	160	780	940	0.15	0.175	1785	0.193129	0.893797	0.745346	0.611184	0.28633
33_22	5/5/16	370	1800	2170	0.4	120	620	740	0.21	0.305	1879	0.177109	0.888528	0.736316	0.603779	0.505152
33_23	6/4/16	500	2800	3300	0.37	91	500	591	0.25	0.31	1909	0.172281	0.886853	0.733528	0.601493	0.515384
33_24	8/23/16	620	3200	3820	0.33	78	430	508	0.23	0.28	1989	0.160041	0.882402	0.726302	0.595568	0.47014
33_25	10/15/16	470	2800	3270	0.36	87	530	617	0.16	0.26	2042	0.152414	0.879465	0.721675	0.591773	0.439357
33_26	12/2/16	330	2000	2330	0.34	86	570	656	0.23	0.285	2090	0.145822	0.876813	0.717588	0.588423	0.484346
33_27	2/12/17	260	1700	1960	0.29	140	1000	1140	0.2	0.245	2162	0.136463	0.872852	0.711636	0.583541	0.41985
33_28	5/24/17	510	3600	4110	0.31	99	780	879	0.24	0.275	2263	0.124339	0.867324	0.703621	0.576969	0.476628
33_29	6/22/17	260	1800	2060	0.31	120	920	1040	0.21	0.26	2292	0.121061	0.865743	0.701388	0.575138	0.452065
33_30	8/20/17	320	2300	2620	0.27	88	680	768	0.18	0.225	2351	0.114657	0.862536	0.696935	0.571486	0.39371
33_31	10/28/17	170	1400	1570	0.27	59	440	499	0.2	0.235	2420	0.107595	0.858801	0.691871	0.567335	0.414218
33_32	12/19/17	110	1100	1210	0.26	44	390	434	0.19	0.225	2472	0.102563	0.855997	0.688154	0.564286	0.398734
33_33	2/11/18	150	1300	1450	0.24	85	870	955	0.18	0.21	2526	0.097585	0.853094	0.684378	0.56119	0.374205
33_34	5/20/18	220	2300	2520	0.31	43	430	473	0.24	0.275	2624	0.089161	0.847852	0.677735	0.555742	0.494834
33_35	6/19/18	120	1100	1220	0.29	87	830	917	0.21	0.25	2654	0.086731	0.846253	0.675752	0.554117	0.451168
33_36	8/23/18	280	2700	2980	0.29	88	990	1078	0.21	0.25	2719	0.08169	0.8428	0.671535	0.550659	0.454002
33_37	10/20/18	200	2300	2500	0.29	54	610	664	0.2	0.245	2777	0.07744	0.839731	0.667858	0.547644	0.447371
33_38	11/20/18	220	2600	2820	0.29	67	670	737	0.21	0.25	2808	0.075259	0.838096	0.665925	0.546058	0.457827
33_39	12/19/18	170	2000	2170	0.29	52	580	632	0.2	0.245	2837	0.073275	0.836568	0.664136	0.544591	0.449879
33_40	5/3/19	270	3500	3770	0.27	43	550	593	0.18	0.225	2972	0.064706	0.829494	0.656044	0.537956	0.41825
33_41	6/20/19	130	1700	1830	0.27	52	740	792	0.17	0.22	3020	0.061907	0.826994	0.653255	0.535669	0.410702
33_42	8/19/19	170	2400	2570	0.25	64	1000	1064	0.19	0.22	3080	0.058578	0.823879	0.649829	0.53286	0.412866
33_43	10/17/19	170	2700	2870	0.24	63	810	873	0.17	0.205	3139	0.05548	0.820827	0.646524	0.53015	0.386683
33_44	11/17/19	100	1600	1700	0.27	49	760	809	0.18	0.225	3170	0.053918	0.819228	0.644812	0.528746	0.425535
33_45	12/8/19	140	2000	2140	0.25	43	640	683	0.18	0.215	3191	0.052885	0.818146	0.643661	0.527802	0.40735
33_46	8/1/20	92	1700	1792	0.21	26	490	516	0.14	0.175	3428	0.042512	0.806041	0.631149	0.517543	0.338136
33_47	10/21/20	97	2000	2097	0.23	34	720	754	0.16	0.195	3509	0.039455	0.801944	0.627057	0.514187	0.37924
33_48	11/22/20	86	1800	1886	0.22	51	1000	1051	0.16	0.19	3541	0.038309	0.800332	0.625464	0.51288	0.370457
33_49	12/17/20	45	960	1005	0.21	30	630	660	0.15	0.18	3566	0.037437	0.799074	0.624228	0.511867	0.351654
33_50	5/20/21	110	2500	2610	0.14	7.5	100	107.5	0.13	0.135	3720	0.032485	0.791371	0.61678	0.50576	0.266925
33_51	6/4/21	58	1300	1358	0.24	6.9	74	74	0.04	0.14	3735	0.032039	0.790625	0.616069	0.505177	0.277131
33_52	8/28/21	40	1400	1440	0.23	10	250	260	0.15	0.19	3820	0.029626	0.786409	0.612086	0.50191	0.378554
33_53	10/15/21	47	1500	1547	0.22	9.2	250	259.2	0.14	0.18	3868	0.028345	0.784038	0.609869	0.500093	0.359933
33_54	11/13/21	51	1100	1151	0.22	9	370	379	0.15	0.185	3897	0.027597	0.78261	0.608541	0.499004	0.370739
33_55	12/6/21	39	1300	1339	0.24	15	380	395	0.16	0.2	3920	0.027019	0.781478	0.607493	0.498145	0.40149
33_56	5/11/22	54	2200	2254	0.22	7.2	79	79	0.15	0.185	4076	0.023402	0.773848	0.600517	0.492424	0.375693
33_57	6/8/22	34	1300	1334	0.22	7.5	120	120	0.13	0.175	4104	0.022806	0.772486	0.599288	0.491416	0.356114
33_58	8/3/22	52	2200	2252	0.21	9.2	420	420	0.13	0.17	4160	0.021659	0.76977	0.596848	0.489415	0.347353
33_59	10/5/22	28	1300	1328	0.2	8.3	97	97	0.13	0.165	4223	0.020438	0.766725	0.594134	0.48719	0.338677
33_60	11/4/22	47	1700	1747	0.17	8.3	220	220	0.18	0.175	4253	0.019881	0.76528	0.592852	0.486139	0.35998
33_61	12/7/22	23	1300	1323	0.21	8.8	110	110	0.15	0.18	4286	0.019286	0.763693	0.59145	0.484989	0.371142
33_62	5/11/23	65	2900	2965	0.21	9.4	290	290	0.16	0.185	4441	0.016719	0.756284	0.584971	0.479676	0.385677
33_63	6/29/23	45	1600	1645	0.2	17	690	707	0.13	0.165	4490	0.015982	0.753956	0.582957	0.478025	0.345171
33_64	8/29/23	30	1400	1430	0.2	8.6	220	220	0.14	0.17	4551	0.015108	0.751069	0.580471	0.475986	0.357153
33_65	10/25/23	29	1400	1429	0.21	8.9	260	260	0.14	0.175	4608	0.014335	0.748381	0.57817	0.474099	0.369121
33_66	11/29/23	27	2100	2127	0.21	8.4	430	438.4	0.14	0.175	4643	0.01388	0.746735	0.576767	0.472949	0.370019
33_67	12/22/23	33	1900	1933	0.21	11	620	631	0.15	0.18	4666	0.013589	0.745656	0.575848	0.472196	0.381198
33_68	5/17/24	32	2200	2232	0.2	18	1100	1118	0.15	0.175	4813	0.011868	0.738793	0.570051	0.467442	0.374378
33_69	6/26/24	51	2900	2951	0.22	12	600	612	0.14	0.18	4853	0.011439	0.736936	0.568494	0.466165	0.386129
33_70	8/16/24	29	1800	1829	0.2	9.7	520	520	0.18	0.19	4904	0.010914	0.734576	0.566521	0.464548	0.409

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
34_1	11/17/11	730	940	1670	0.82	1000	1200	2200	0.68	0.75	248	0.795754	0.984522	1.002636	0.751977	0.997371
34_2	1/19/12	160	230	390	0.25	200	260	460	0.18	0.215	311	0.750885	0.980628	0.985673	0.739255	0.290834
34_3	6/12/12	7.8	310	480	0.45	8.6	360	550	0.41	0.43	456	0.656994	0.971725	0.949597	0.712198	0.603765
34_4	7/3/12	9.5	310	490	0.35	16	860	1400	0.53	0.44	477	0.644406	0.970442	0.944692	0.708519	0.621014
34_5	9/20/12	17	1000	1800	0.38	22	2300	3800	0.48	0.43	556	0.599174	0.965632	0.926913	0.695185	0.618541
34_6	11/19/12	9.8	410	700	0.37	21	1700	2900	0.47	0.42	616	0.566954	0.961995	0.914087	0.685565	0.612633
34_7	12/26/12	14	1000	1800	0.41	14	1000	1800	0.46	0.435	653	0.547954	0.959758	0.906453	0.67984	0.639856
34_8	5/31/13	450	920	1370	0.346	880	1800	2680	0.404	0.375	809	0.474604	0.950387	0.876418	0.657313	0.570504
34_9	6/27/13	320	630	950	0.28	920	1900	2820	0.328	0.304	836	0.462944	0.948774	0.871549	0.653662	0.465072
34_10	8/29/13	760	1700	2460	0.242	1100	2500	3600	0.346	0.294	899	0.436841	0.945022	0.86054	0.645405	0.455528
34_11	10/3/13	440	1000	1440	0.254	830	1800	2630	0.398	0.326	934	0.422981	0.942944	0.854629	0.640972	0.508603
34_12	12/13/13	1100	2700	3800	0.258	740	1800	2540	0.348	0.303	1005	0.3962	0.938742	0.843065	0.632299	0.479204
34_13	2/13/14	830	2000	2830	0.11	260	680	940	0.138	0.124	1067	0.374205	0.935088	0.833412	0.625059	0.198381
34_14	5/15/14	460	1300	1760	0.27	1000	3100	4100	0.39	0.33	1158	0.344113	0.929751	0.819946	0.614959	0.536621
34_15	6/16/14	790	2300	3090	0.24	480	1500	1980	0.32	0.28	1190	0.334117	0.927882	0.815398	0.611549	0.457854
34_16	8/7/14	270	760	1030	0.26	440	1400	1840	0.35	0.305	1242	0.318489	0.924852	0.808207	0.606155	0.503172
34_17	10/9/14	190	600	790	0.26	640	2000	2640	0.3	0.28	1305	0.300531	0.921194	0.799808	0.599856	0.466779
34_18	12/4/14	450	1600	2050	0.24	540	1800	2340	0.3	0.27	1361	0.28542	0.917955	0.792618	0.594463	0.454191
34_19	5/18/15	280	1100	1380	0.2	160	540	700	0.22	0.21	1526	0.245172	0.908477	0.772813	0.57961	0.362313
34_20	6/8/15	820	3000	3820	0.21	220	870	1090	0.21	0.21	1547	0.240474	0.907278	0.77043	0.577823	0.363433
34_21	8/12/15	470	1800	2270	0.17	150	610	760	0.2	0.185	1612	0.226497	0.903576	0.763238	0.572429	0.323184
34_22	10/4/15	670	2700	3370	0.17	140	520	660	0.18	0.175	1665	0.215704	0.900569	0.75757	0.568178	0.308002
34_23	12/10/15	670	2800	3470	0.16	92	440	532	0.18	0.17	1732	0.202793	0.896782	0.750645	0.562984	0.301963
34_24	2/1/16	270	1400	1670	0.11	91	470	561	0.12	0.115	1785	0.193129	0.893797	0.745346	0.55901	0.205721
34_25	5/5/16	230	1100	1330	0.17	110	490	600	0.19	0.18	1879	0.177109	0.888528	0.736316	0.552237	0.325947
34_26	6/4/16	89	440	529	0.17	77	390	467	0.15	0.16	1909	0.172281	0.886853	0.733528	0.550146	0.290832
34_27	8/28/16	82	450	532	0.17	410	2300	2710	0.18	0.175	1994	0.159305	0.882124	0.72586	0.544395	0.321458
34_28	10/15/16	340	1800	2140	0.15	98	500	598	0.19	0.17	2042	0.152414	0.879465	0.721675	0.541256	0.314084
34_29	12/2/16	200	1200	1400	0.17	94	570	664	0.18	0.175	2090	0.145822	0.876813	0.717588	0.538191	0.325163
34_30	2/12/17	250	1600	1850	0.16	200	1300	1500	0.18	0.17	2162	0.136463	0.872852	0.711636	0.533727	0.318515
34_31	5/24/17	150	1200	1350	0.16	200	1500	1700	0.21	0.185	2263	0.124339	0.867324	0.703621	0.527716	0.350567
34_32	6/19/17	480	3500	3980	0.15	210	1700	1910	0.19	0.17	2289	0.121396	0.865907	0.701618	0.526213	0.323063
34_33	8/19/17	270	2200	2470	0.11	270	2200	2470	0.14	0.125	2350	0.114763	0.862591	0.697009	0.522757	0.239117
34_34	10/28/17	51	480	531	0.14	100	830	930	0.19	0.165	2420	0.107595	0.858801	0.691871	0.518904	0.317978
34_35	12/19/17	53	510	563	0.13	52	470	522	0.17	0.15	2472	0.102563	0.855997	0.688154	0.516115	0.290833
34_36	2/13/18	110	970	1080	0.12	150	1400	1550	0.17	0.145	2528	0.097406	0.852987	0.68424	0.51318	0.282552
34_37	5/20/18	69	770	839	0.14	55	620	675	0.17	0.155	2624	0.089161	0.847852	0.677735	0.508301	0.304937
34_38	6/19/18	71	680	751	0.15	32	490	522	0.17	0.16	2654	0.086731	0.846253	0.675752	0.506814	0.315698
34_39	8/23/18	100	1200	1300	0.14	100	1000	1100	0.17	0.155	2719	0.08169	0.8428	0.671535	0.503651	0.307753
34_40	10/20/18	87	1000	1087	0.15	110	1300	1410	0.18	0.165	2777	0.07744	0.839731	0.667858	0.500893	0.329411
34_41	11/20/18	59	740	799	0.14	65	790	855	0.18	0.16	2808	0.075259	0.838096	0.665925	0.499444	0.320357
34_42	12/19/18	84	1100	1184	0.13	74	810	884	0.17	0.15	2837	0.073275	0.836568	0.664136	0.498102	0.301143
34_43	5/3/19	110	1400	1510	0.14	120	1600	1720	0.18	0.16	2972	0.064706	0.829494	0.656044	0.492033	0.325182
34_44	6/20/19	64	930	994	0.13	66	860	926	0.15	0.14	3020	0.061907	0.826994	0.653255	0.489941	0.285749
34_45	8/19/19	71	1000	1071	0.12	100	1500	1600	0.15	0.135	3080	0.058578	0.823879	0.649829	0.487372	0.276996
34_46	10/17/19	77	1400	1477	0.12	59	900	959	0.14	0.13	3139	0.05548	0.820827	0.646524	0.484893	0.2681
34_47	11/17/19	94	1400	1494	0.13	44	700	744	0.15	0.14	3170	0.053918	0.819228	0.644812	0.483609	0.28949
34_48	12/8/19	52	890	942	0.12	42	630	672	0.14	0.13	3191	0.052885	0.818146	0.643661	0.482746	0.269293
34_49	8/1/20	21	380	401	0.1	57	1100	1157	0.12	0.11	3428	0.042512	0.806041	0.631149	0.473362	0.23238
34_50	10/18/20	26	520	546	0.11	41	720	761	0.12	0.115	3506	0.039564	0.802096	0.627207	0.470405	0.24447
34_51	11/22/20	41	810	851	0.12	54	900	954	0.14	0.13	3541	0.038309	0.800332	0.625464	0.469098	0.277128
34_52	12/17/20	52	1100	1152	0.12	41	890	931	0.13	0.125	3566	0.037437	0.799074	0.624228	0.468171	0.266996
34_53	5/20/21	11	350	361	0.03	19	410	429	0.06	0.045	3720	0.032485	0.791371	0.61678	0.462585	0.097279
34_54	6/4/21	24	580	604	0.12	9.1	200	209.1	0.13	0.125	3735	0.032039	0.790625	0.616069	0.462052	0.270532
34_55	8/28/21	24	460	484	0.1	28	870	898	0.12	0.11	3820	0.029626	0.786409	0.612086	0.459084	0.239618
34_56	10/15/21	52	1500	1552	0.1	22	450	472	0.11	0.105	3868	0.028345	0.784038	0.609869	0.457402	0.229557
34_57	11/13/21	13	460	473	0.11	25	960	985	0.12	0.115	3897	0.027597	0.78261	0.608541	0.456406	0.251969
34_58	12/6/21	23	900	923	0.12	39	760	799	0.15	0.135	3920	0.027019	0.781478	0.607493	0.45562	0.296299
34_59	5/11/22	18	480	498	0.12	9.1	210	210	0.17	0.145	4076	0.023402	0.773848	0.600517	0.450388	0.321945
34_60	6/8/22	13	270	283	0.1	20	860	880	0.12	0.11	4104	0.022806	0.772486	0.599288	0.449466	0.244735
34_61	8/3/22	31	1000	1031	0.1	8.3	60	60	0.11	0.105	4160	0.021659	0.76977	0.596848	0.447636	0.234566
34_62	10/5/22	50	1800	1850	0.1	8.8	290	290	0.1	0.1	4223	0.020438	0.766725	0.594134	0.4456	0.224416
34_63	11/4/22	26	1000	1026	0.11	12	470	482	0.12	0.115	4253	0.019881	0.76528	0.592852	0.444639	0.258637
34_64	12/7/22	8.2	140	140	0.1	14	710	724	0.13	0.115	4286	0.019286	0.763693	0.59145	0.443588	0.25925
34_65	5/11/23	28	1500	1528	0.11	11	490	501	0.13	0.12	4441	0.016719	0.756284	0.584971	0.438728	0.273518
34_66	6/29/23	43	1700	1743	0.1	19	810	829	0.1	0.1	4490	0.015982	0.753956	0.582957	0.437218	0.228719
34_67	8/30/23	22	650	672	0.1	8.5	13	13	0.12	0.11	4552	0.015094	0.751022	0.580431	0.435323	0.252686
34_68	10/26/23	28	1500	1528	0.12	17	410	427	0.12	0.12	4609	0.014322	0.748334	0.57813	0.433597	0.276755
34_69	11/29/23	17	920	937	0.1	9.2	590	590	0.12	0.11	4643	0.01388	0.746735	0.576767	0.432575	0.254291
34_70	12/22/23	14	710	724	0.1	8.6	490	490	0.12	0.11	4666	0.013589	0.745656	0.575848	0.431886	0.254697
34_71	5/17/24	7.8	450	450	0.1	7.7	130	130	0.11	0.105	4813	0.011868	0.738793	0.570051	0.427538	0.245592
34_72	6/26/24	18	920	938	0.1	9.1	150	150	0.12	0.11	4853	0.011439	0.736936	0.568494	0.426371	0.257991
34_73	8/16/24	8.7	540	540	0.11	8.1	140	140	0.11	0.11	4904	0.010914	0.734576	0.566521	0.424891	0.25889

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
35_1	11/21/11	2500	3200	5700	0.92					0.92	252	0.792827	0.984274	1.001534	0.921412	0.998468
35_2	1/6/12	2700	3600	6300	0.98					0.98	298	0.759932	0.98143	0.989106	0.909978	1.07695
35_3	3/4/12	3100	4300	7400	0.78					0.78	356	0.720393	0.977856	0.974049	0.896125	0.870415
35_4	6/13/12	15	1100	1700	0.85					0.85	457	0.656389	0.971664	0.949361	0.873413	0.973194
35_5	7/3/12	20	2500	3800	0.66					0.66	477	0.644406	0.970442	0.944692	0.869117	0.759392
35_6	8/23/12	16	1600	2500	0.71					0.71	528	0.61483	0.967334	0.933095	0.858448	0.827074
35_7	11/19/12	17	980	1700	0.81	14	1100	1800	0.6	0.705	616	0.566954	0.961995	0.914087	0.84096	0.838328
35_8	12/19/12	17	1700	3000	0.58	22	1900	3300	0.56	0.57	646	0.551499	0.960181	0.907882	0.835251	0.682429
35_9	2/7/13	17	1300	2300	0.71	19	2000	3700	0.56	0.635	696	0.526673	0.957166	0.897836	0.826009	0.768757
35_10	5/31/13	1800	3700	5500	0.57	1200	2600	3800	0.35	0.46	809	0.474604	0.950387	0.876418	0.806304	0.570504
35_11	6/25/13	1900	4000	5900	0.584	1100	2400	3500	0.384	0.484	834	0.463798	0.948894	0.871907	0.802154	0.603375
35_12	8/28/13	1700	3700	5400	0.556	1200	2700	3900	0.39	0.473	898	0.437244	0.945081	0.860711	0.791855	0.597332
35_13	10/4/13	2000	4500	6500	0.626	2100	4700	6800	0.38	0.503	935	0.422591	0.942884	0.854462	0.786105	0.639863
35_14	12/11/13	1600	3800	5400	0.604	680	1700	2380	0.372	0.488	1003	0.396931	0.93886	0.843383	0.775913	0.628937
35_15	2/13/14	2100	5100	7200	0.382	1700	4300	6000	0.282	0.332	1067	0.374205	0.935088	0.833412	0.766739	0.433003
35_16	5/16/14	520	1500	2020	0.55	560	1600	2160	0.36	0.455	1159	0.343796	0.929693	0.819802	0.754218	0.603274
35_17	6/11/14	620	1700	2320	0.54	560	1700	2260	0.32	0.43	1185	0.33566	0.928174	0.816103	0.750814	0.572711
35_18	8/4/14	950	2900	3850	0.54	620	1800	2420	0.32	0.43	1239	0.31937	0.925026	0.808615	0.743926	0.578014
35_19	10/1/14	950	3000	3950	0.54	450	1400	1850	0.31	0.425	1297	0.302754	0.921658	0.800856	0.736788	0.576828
35_20	12/1/14	820	2800	3620	0.51	600	2000	2600	0.31	0.41	1358	0.28621	0.918128	0.792996	0.729557	0.561985
35_21	2/2/15	810	2900	3710	0.51	590	2200	2790	0.35	0.43	1421	0.270072	0.914497	0.785185	0.72237	0.595262
35_22	5/16/15	610	2200	2810	0.4	470	1600	2070	0.32	0.36	1524	0.245624	0.908592	0.773042	0.711198	0.506188
35_23	6/15/15	950	3700	4650	0.38	440	1700	2140	0.31	0.345	1554	0.238928	0.906879	0.769643	0.708071	0.487239
35_24	8/14/15	860	3300	4160	0.37	870	3600	4470	0.24	0.305	1614	0.22608	0.903463	0.763021	0.701979	0.434486
35_25	10/8/15	1200	5100	6300	0.36	460	2100	2560	0.21	0.285	1669	0.214911	0.900342	0.75715	0.696578	0.409143
35_26	12/12/15	840	3600	4440	0.33	520	2400	2920	0.22	0.275	1734	0.20242	0.896669	0.750442	0.690407	0.398316
35_27	2/9/16	660	3200	3860	0.36	440	2200	2640	0.23	0.295	1793	0.191711	0.893347	0.74456	0.684995	0.43066
35_28	5/8/16	600	2800	3400	0.38	650	3100	3750	0.36	0.37	1882	0.17662	0.88836	0.736035	0.677152	0.546406
35_29	6/6/16	1000	5200	6200	0.41	280	1400	1680	0.33	0.37	1911	0.171964	0.886741	0.733343	0.674676	0.548411
35_30	9/16/16	560	3200	3760	0.32	470	2800	3270	0.21	0.265	2013	0.156541	0.88107	0.724191	0.666256	0.397745
35_31	10/16/16	690	4000	4690	0.37	630	3600	4230	0.28	0.325	2043	0.152274	0.879409	0.721589	0.663862	0.48956
35_32	12/19/16	570	3200	3770	0.37	590	3600	4190	0.32	0.345	2107	0.143556	0.875876	0.716164	0.658871	0.523623
35_33	2/6/17	270	1600	1870	0.33	340	2200	2540	0.32	0.325	2156	0.13722	0.873181	0.712124	0.655154	0.496066
35_34	5/16/17	540	3800	4340	0.32	430	3000	3430	0.3	0.31	2255	0.125259	0.867761	0.704242	0.647903	0.478467
35_35	6/12/17	430	3000	3430	0.36	470	3300	3770	0.32	0.34	2282	0.122182	0.866288	0.702155	0.645983	0.52633
35_36	8/20/17	350	2800	3150	0.24	590	4400	4990	0.23	0.235	2351	0.114657	0.862536	0.696935	0.64118	0.366512
35_37	10/15/17	330	2700	3030	0.31	340	2900	3240	0.27	0.29	2407	0.108892	0.859504	0.692814	0.637389	0.454981
35_38	12/21/17	110	930	1040	0.27	290	2600	2890	0.23	0.25	2474	0.102374	0.855889	0.688012	0.632971	0.394963
35_39	2/15/18	400	3600	4000	0.29	510	4600	5110	0.23	0.26	2530	0.097227	0.85288	0.684102	0.629373	0.413109
35_40	5/22/18	180	1800	1980	0.33	87	940	1027	0.24	0.285	2626	0.088997	0.847745	0.677602	0.623394	0.457175
35_41	6/18/18	160	1700	1860	0.31	320	3200	3520	0.23	0.27	2653	0.086811	0.846306	0.675818	0.621752	0.434256
35_42	8/18/18	160	1600	1760	0.33	350	3600	3950	0.24	0.285	2714	0.082067	0.843066	0.671856	0.618107	0.461085
35_43	10/9/18	370	3700	4070	0.31	140	1500	1640	0.24	0.275	2766	0.078228	0.840313	0.668549	0.615065	0.447107
35_44	11/11/18	230	2500	2730	0.29	280	3200	3480	0.22	0.255	2799	0.075886	0.83857	0.666484	0.613165	0.415875
35_45	12/14/18	150	1700	1850	0.3	360	4200	4560	0.25	0.275	2832	0.073614	0.836831	0.664443	0.611287	0.44987
35_46	5/16/19	270	3800	4070	0.28	180	2200	2380	0.22	0.25	2985	0.063936	0.828816	0.655284	0.602861	0.414689
35_47	6/12/19	190	2800	2990	0.27	230	2800	3030	0.21	0.24	3012	0.062365	0.82741	0.653716	0.601419	0.399056
35_48	8/3/19	150	2100	2250	0.26	260	3500	3760	0.19	0.225	3064	0.059448	0.824708	0.650736	0.598677	0.375828
35_49	10/30/19	55	900	955	0.27	160	2500	2660	0.18	0.225	3152	0.054819	0.820156	0.645804	0.59414	0.378699
35_50	11/20/19	200	3000	3200	0.27	110	1500	1610	0.19	0.23	3173	0.053769	0.819073	0.644647	0.593075	0.387809
35_51	12/13/19	180	2600	2780	0.26	71	1000	1071	0.21	0.235	3196	0.052641	0.817889	0.643388	0.591917	0.397015
35_52	8/19/20	170	3200	3370	0.21	260	5100	5360	0.17	0.19	3446	0.041813	0.805128	0.630232	0.579814	0.327691
35_53	10/11/20	85	1800	1885	0.22	94	1900	1994	0.17	0.195	3499	0.03982	0.802449	0.627558	0.577353	0.337748
35_54	11/11/20	120	2700	2820	0.22	99	2400	2499	0.19	0.205	3530	0.038699	0.800886	0.62601	0.575929	0.355947
35_55	12/7/20	61	1500	1561	0.22	48	1100	1148	0.17	0.195	3556	0.037783	0.799577	0.624721	0.574744	0.339282
35_56	5/20/21	110	2600	2710	0.13	110	2700	2810	0.15	0.14	3720	0.032485	0.791371	0.61678	0.567438	0.246723
35_57	6/5/21	43	1400	1443	0.22	150	3500	3650	0.17	0.195	3736	0.03201	0.790575	0.616022	0.56674	0.344073
35_58	8/3/21	46	1200	1246	0.22	110	2800	2910	0.17	0.195	3795	0.030316	0.787647	0.61325	0.56419	0.345628
35_59	10/19/21	53	1500	1553	0.22	59	1800	1859	0.17	0.195	3872	0.02824	0.783841	0.609685	0.560911	0.347649
35_60	11/15/21	32	1100	1132	0.21	93	2800	2893	0.17	0.19	3899	0.027547	0.782511	0.60845	0.559774	0.339423
35_61	12/7/21	68	1900	1968	0.2	86	2100	2186	0.18	0.19	3921	0.026994	0.781429	0.607448	0.558852	0.339983
35_62	5/11/22	77	2300	2377	0.22	9.5	370	370	0.17	0.195	4076	0.023402	0.773848	0.600517	0.552476	0.352957
35_63	6/9/22	70	2300	2370	0.2	36	1200	1236	0.18	0.19	4105	0.022785	0.772437	0.599244	0.551304	0.344637
35_64	8/4/22	80	2500	2580	0.19	43	1500	1543	0.17	0.18	4161	0.021639	0.769721	0.596805	0.54906	0.327833
35_65	10/6/22	15	630	645	0.2	47	2000	2047	0.17	0.185	4224	0.020419	0.766677	0.594091	0.546564	0.338478
35_66	11/5/22	36	1800	1836	0.17	37	1400	1437	0.1	0.135	4254	0.019863	0.765232	0.59281	0.545385	0.247532
35_67	12/8/22	71	2600	2671	0.18	13	470	483	0.14	0.16	4287	0.019268	0.763645	0.591408	0.544095	0.294066
35_68	5/29/23	150	7200	7350	0.18	81	3100	3181	0.16	0.17	4459	0.016444	0.755428	0.584229	0.537491	0.316285
35_69	6/29/23	100	4700	4800	0.17	34	1800	1834	0.13	0.15	4490	0.015982	0.753956	0.582957	0.53632	0.279684
35_70	8/18/23	87	4400	4487	0.18	20	1300	1320	0.15	0.165	4540	0.015262	0.751589	0.580918	0.534444	0.308732
35_71	10/20/23	96	5600	5696	0.18	21	1300	1321	0.14	0.16	4603	0.014402	0.748616	0.578371	0.532101	0.300695
35_72	11/28/23	29	1300	1329	0.19	22	1200	1222	0.13	0.16	4642	0.013893	0.746782	0.576807	0.530662	0.30151
35_73	12/27/23	73	4000	4073	0.2	51	2100	2151	0.13	0.165	4671	0.013527	0.745421	0.575649	0.529597	0.311558
35_74	5/22/24	98	6700	6798	0.17	28	1900	1928	0.13	0.15	4818	0.011814	0.738561	0.569856	0.524268	0.286113
35_75	6/21/24	16	1100	1116	0.11	28	1600	1628	0.15	0.13	4848	0.011492	0.737168	0.568688	0.523193	0.248474
35_76	8/16/24	42	2100	2142	0.14	14	580	594	0.11	0.125	4904	0.010914	0.734576	0.566521	0.5212	0.239831

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
36_1	11/21/11					2000	2500	4500	0.93	0.93	252	0.792827	0.984274	1.001534	0.931427	0.998468
36_2	1/6/12					2100	2800	4900	0.87	0.87	298	0.759932	0.98143	0.989106	0.919869	0.945787
36_3	3/4/12					1700	2300	4000	0.83	0.83	356	0.720393	0.977856	0.974049	0.905865	0.916251
36_4	6/12/12					16	1200	1900	0.71	0.71	456	0.656994	0.971725	0.949597	0.883125	0.803963
36_5	7/3/12					18	1400	2300	0.73	0.73	477	0.644406	0.970442	0.944692	0.878563	0.830902
36_6	8/23/12					22	2400	3900	0.56	0.56	528	0.61483	0.967334	0.933095	0.867779	0.645326
36_7	11/19/12	15	1300	2300	0.63	16	1300	2300	0.69	0.66	616	0.566954	0.961995	0.914087	0.850101	0.776379
36_8	12/19/12	9.2	320	530	0.6	17	1500	2700	0.68	0.64	646	0.551499	0.960181	0.907882	0.84433	0.757997
36_9	5/31/13	790	1500	2290	0.466	770	1600	2370	0.448	0.457	809	0.474604	0.950387	0.876418	0.815088	0.560689
36_10	6/25/13	1200	2500	3700	0.476	1100	2300	3400	0.458	0.467	834	0.463798	0.948894	0.871907	0.810873	0.575922
36_11	8/28/13	700	1500	2200	0.412	1400	3100	4500	0.382	0.397	898	0.437244	0.945081	0.860711	0.800462	0.495964
36_12	10/4/13	760	1600	2360	0.544	1200	2700	3900	0.41	0.477	935	0.422591	0.942884	0.854462	0.79465	0.600264
36_13	12/11/13	760	1800	2560	0.464	960	2300	3260	0.436	0.45	1003	0.396931	0.93886	0.843383	0.784346	0.573726
36_14	2/13/14	1900	4900	6800	0.31	2300	5900	8200	0.268	0.289	1067	0.374205	0.935088	0.833412	0.775073	0.372868
36_15	5/16/14	390	1200	1590	0.4	680	1700	2380	0.42	0.41	1159	0.343796	0.929693	0.819802	0.762416	0.537764
36_16	6/11/14	1000	2600	3600	0.39	1900	5000	6900	0.36	0.375	1185	0.33566	0.928174	0.816103	0.758975	0.494087
36_17	8/4/14	620	1700	2320	0.38	1200	3500	4700	0.38	0.38	1239	0.31937	0.925026	0.808615	0.752012	0.505311
36_18	10/1/14	740	2300	3040	0.38	1300	4000	5300	0.4	0.39	1297	0.302754	0.921658	0.800856	0.744796	0.523633
36_19	12/1/14	1200	4000	5200	0.34	630	2100	2730	0.33	0.335	1358	0.28621	0.918128	0.792996	0.737487	0.454246
36_20	2/2/15	280	1000	1280	0.38	540	2000	2540	0.38	0.38	1421	0.270072	0.914497	0.785185	0.730222	0.52039
36_21	5/16/15	340	1200	1540	0.33	460	1700	2160	0.32	0.325	1524	0.245624	0.908592	0.773042	0.718929	0.452062
36_22	6/15/15	1200	4300	5500	0.33	1300	5200	6500	0.31	0.32	1554	0.238928	0.906879	0.769643	0.715768	0.447072
36_23	8/13/15	610	2500	3110	0.3	340	1300	1640	0.29	0.295	1613	0.226289	0.903519	0.76313	0.709711	0.415662
36_24	10/8/15	470	1900	2370	0.28	830	3500	4330	0.3	0.29	1669	0.214911	0.900342	0.75715	0.704149	0.411845
36_25	12/12/15	570	2500	3070	0.3	900	4000	4900	0.27	0.285	1734	0.20242	0.896669	0.750442	0.697911	0.408362
36_26	2/9/16	630	2800	3430	0.28	450	1900	2350	0.26	0.27	1793	0.191711	0.893347	0.74456	0.69244	0.389925
36_27	5/8/16	480	2500	2980	0.29	410	2200	2610	0.36	0.325	1882	0.17662	0.88836	0.736035	0.684513	0.47479
36_28	6/6/16	210	1200	1410	0.27	570	3100	3670	0.27	0.27	1911	0.171964	0.886741	0.733343	0.682009	0.395889
36_29	9/14/16	410	2300	2710	0.24	490	2900	3390	0.19	0.215	2011	0.15683	0.881181	0.724366	0.673661	0.319152
36_30	10/16/16	470	2500	2970	0.26	820	4900	5720	0.29	0.275	2043	0.152274	0.879409	0.721589	0.671078	0.409789
36_31	12/19/16	270	1900	2170	0.27	340	2000	2340	0.26	0.265	2107	0.143556	0.875876	0.716164	0.666033	0.397878
36_32	2/6/17	290	1800	2090	0.28	230	1500	1730	0.27	0.275	2156	0.13722	0.873181	0.712124	0.662275	0.415235
36_33	5/16/17	830	5700	6530	0.32	290	2200	2490	0.24	0.28	2255	0.125259	0.867761	0.704242	0.654945	0.427517
36_34	6/12/17	200	1400	1600	0.29	340	2500	2840	0.24	0.265	2282	0.122182	0.866288	0.702155	0.653004	0.405817
36_35	8/20/17	490	3500	3990	0.22	210	1700	1910	0.18	0.2	2351	0.114657	0.862536	0.696935	0.648149	0.308571
36_36	10/15/17	84	680	764	0.26	200	1700	1900	0.2	0.23	2407	0.108892	0.859504	0.692814	0.644317	0.356967
36_37	12/10/17	150	1300	1450	0.23	140	1200	1340	0.18	0.205	2463	0.103417	0.856481	0.688791	0.640576	0.320025
36_38	2/15/18	140	1300	1440	0.24	260	2400	2660	0.19	0.215	2530	0.097227	0.85288	0.684102	0.636214	0.337936
36_39	5/23/18	160	1400	1560	0.25	180	1800	1980	0.22	0.235	2627	0.088915	0.847692	0.677535	0.630108	0.372952
36_40	6/18/18	93	970	1063	0.24	140	1500	1640	0.21	0.225	2653	0.086811	0.846306	0.675818	0.628511	0.357989
36_41	8/18/18	250	2400	2650	0.24	240	2300	2540	0.2	0.22	2714	0.082067	0.843066	0.671856	0.624826	0.352098
36_42	10/9/18	260	2800	3060	0.24	240	2700	2940	0.19	0.215	2766	0.078228	0.840313	0.668549	0.621751	0.345798
36_43	11/11/18	190	2300	2490	0.24	160	1800	1960	0.2	0.22	2799	0.075886	0.83857	0.666484	0.61983	0.354936
36_44	12/14/18	260	3100	3360	0.25	190	2100	2290	0.2	0.225	2832	0.073614	0.836831	0.664443	0.617932	0.364118
36_45	5/16/19	160	2000	2160	0.25	180	2500	2680	0.2	0.225	2985	0.063936	0.828816	0.655284	0.609414	0.369207
36_46	6/12/19	730	10000	10730	0.21	190	2900	3090	0.19	0.2	3012	0.062365	0.82741	0.653716	0.607956	0.328971
36_47	8/3/19	150	2500	2650	0.23	130	1900	2030	0.18	0.205	3064	0.059448	0.824708	0.650736	0.605185	0.33874
36_48	10/30/19	58	870	928	0.21	74	1100	1174	0.17	0.19	3152	0.054819	0.820156	0.645804	0.600598	0.316351
36_49	11/20/19	82	1400	1482	0.18	98	1500	1598	0.17	0.175	3173	0.053769	0.819073	0.644647	0.599522	0.291899
36_50	12/10/19	110	1500	1610	0.18	89	1400	1489	0.18	0.18	3193	0.052787	0.818044	0.643552	0.598503	0.30075
36_51	8/19/20	66	1400	1466	0.19	99	2100	2199	0.15	0.17	3446	0.041813	0.805128	0.630232	0.586116	0.290045
36_52	10/11/20	47	800	847	0.15	69	1200	1269	0.13	0.14	3499	0.03982	0.802449	0.627558	0.583628	0.239879
36_53	11/20/20	42	960	1002	0.15	73	1400	1473	0.14	0.145	3539	0.038379	0.800432	0.625563	0.581774	0.249238
36_54	12/10/20	61	1500	1561	0.16	59	1200	1259	0.16	0.16	3559	0.037679	0.799426	0.624573	0.580853	0.275457
36_55	5/20/21	53	1000	1053	0.12	42	1300	1342	0.15	0.135	3720	0.032485	0.791371	0.61678	0.573606	0.235353
36_56	6/5/21	35	880	915	0.16	71	2400	2471	0.16	0.16	3736	0.03201	0.790575	0.616022	0.572901	0.279281
36_57	8/3/21	77	2100	2177	0.16	79	2300	2379	0.15	0.155	3795	0.030316	0.787647	0.61325	0.570322	0.271776
36_58	10/19/21	65	1900	1965	0.15	51	1400	1451	0.14	0.145	3872	0.02824	0.783841	0.609685	0.567007	0.255729
36_59	11/15/21	45	1500	1545	0.15	64	1800	1864	0.14	0.145	3899	0.027547	0.782511	0.60845	0.565858	0.256248
36_60	12/7/21	60	1800	1860	0.21	48	1400	1448	0.13	0.17	3921	0.026994	0.781429	0.607448	0.564927	0.300924
36_61	5/11/22	34	1500	1534	0.16	100	3300	3400	0.15	0.155	4076	0.023402	0.773848	0.600517	0.558481	0.277539
36_62	6/8/22	6.5	100	100	0.15	33	1000	1033	0.13	0.14	4104	0.022806	0.772486	0.599288	0.557337	0.251194
36_63	8/4/22	16	550	566	0.14	53	2000	2053	0.14	0.14	4161	0.021639	0.769721	0.596805	0.555028	0.252239
36_64	10/6/22	43	1100	1143	0.15	71	2800	2871	0.13	0.14	4224	0.020419	0.766677	0.594091	0.552505	0.253392
36_65	11/5/22	24	680	704	0.11	27	1200	1227	0.15	0.13	4254	0.019863	0.765232	0.59281	0.551313	0.235801
36_66	12/8/22	13	450	463	0.14	74	3000	3074	0.16	0.15	4287	0.019268	0.763645	0.591408	0.550009	0.272723
36_67	5/29/23	11	510	521	0.14	98	4000	4098	0.14	0.14	4459	0.016444	0.755428	0.584229	0.543333	0.257669
36_68	6/29/23	20	1100	1120	0.11	37	1900	1937	0.13	0.12	4490	0.015982	0.753956	0.582957	0.54215	0.221341
36_69	8/18/23	23	1200	1223	0.12	50	2200	2250	0.13	0.125	4540	0.015262	0.751589	0.580918	0.540253	0.231373
36_70	10/20/23	52	2600	2652	0.12	35	2200	2235	0.14	0.13	4603	0.014402	0.748616	0.578371	0.537885	0.241687
36_71	11/28/23	6.9	410	410	0.12	19	880	899	0.14	0.13	4642	0.013893	0.746782	0.576807	0.53643	0.242343
36_72	12/27/23	19	930	949	0.12	8	330	330	0.2	0.16	4671	0.013527	0.745421	0.575649	0.535354	0.298868
36_73	5/22/24	33	1400	1433	0.1	32	2000	2032	0.12	0.11	4818	0.011814	0.738561	0.569856	0.529966	0.20756
36_74	6/21/24	24	1300	1324	0.11	37	2300	2337	0.11	0.11	4848	0.011492	0.737168	0.568688	0.52888	0.207987
36_75	8/16/24	69	4900	4969	0.11	43	2700	2743	0.13	0.12	4904	0.010914	0.734576	0.566521	0.526885	0.227762

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
37_1	11/18/11	1200	1500	2700	1.33	1800	2200	4000	1.66	1.495	249	0.795021	0.98446	1.00236	1.498529	0.997645
37_2	1/19/12	1200	1500	2700	1.02	2000	2600	4600	1.25	1.135	311	0.750885	0.980628	0.985673	1.473581	0.770233
37_3	2/26/12	1000	1300	2300	0.34	880	1100	1980	0.47	0.405	349	0.725054	0.978287	0.975831	1.458867	0.277613
37_4	5/24/12	7.1	230	350	0.26	13	670	970	0.32	0.29	437	0.668595	0.972887	0.954102	1.426382	0.203312
37_5	7/10/12	13	740	1200	0.52	13	940	1400	0.56	0.54	484	0.640264	0.970015	0.943074	1.409896	0.383007
37_6	8/23/12	20	1800	2900	0.43	22	2600	4100	0.51	0.47	528	0.61483	0.967334	0.933095	1.394977	0.336923
37_7	11/11/12	20	1800	3200	0.39	20	1500	2500	0.48	0.435	608	0.571147	0.962479	0.915764	1.369088	0.317734
37_8	12/27/12	14	860	1500	0.46	17	1400	2400	0.53	0.495	654	0.54745	0.959698	0.90625	1.354844	0.365356
37_9	2/11/13	15	1000	1800	0.51	15	1100	2100	0.5	0.505	700	0.524735	0.956925	0.897048	1.341087	0.37656
37_10	6/3/13	1200	2400	3600	0.316	940	1900	2840	0.442	0.379	812	0.473294	0.950208	0.875872	1.309429	0.289439
37_11	7/10/13	720	1600	2320	0.26	1500	3400	4900	0.43	0.345	849	0.457433	0.947999	0.869238	1.29951	0.265485
37_12	8/14/13	820	1700	2520	0.36	2700	5600	8300	0.47	0.415	884	0.442919	0.945914	0.863118	1.290361	0.321615
37_13	10/5/13	520	1200	1720	0.35	1200	2800	4000	0.44	0.395	936	0.422202	0.942825	0.854296	1.277172	0.309277
37_14	12/8/13	630	1500	2130	0.37	1300	3100	4400	0.44	0.405	1000	0.398029	0.939037	0.843861	1.261573	0.321028
37_15	2/6/14	610	1600	2210	0.32	1000	2500	3500	0.414	0.367	1060	0.376626	0.9355	0.834482	1.24755	0.294177
37_16	5/20/14	600	1600	2200	0.35	1000	2900	3900	0.33	0.34	1163	0.342532	0.929459	0.819229	1.224747	0.277608
37_17	6/13/14	690	2000	2690	0.27	140	340	480	0.21	0.24	1187	0.335042	0.928057	0.815821	1.219652	0.196777
37_18	8/5/14	530	1500	2030	0.31	1100	3100	4200	0.26	0.285	1240	0.319076	0.924968	0.808479	1.208676	0.235795
37_19	10/18/14	530	1600	2130	0.27	440	1500	1940	0.26	0.265	1314	0.298049	0.920673	0.798636	1.19396	0.22195
37_20	12/12/14	580	1900	2480	0.27	650	2100	2750	0.24	0.255	1369	0.283324	0.917493	0.791611	1.183458	0.21547
37_21	2/4/15	560	2000	2560	0.26	820	2800	3620	0.25	0.255	1423	0.269575	0.914382	0.784942	1.173489	0.217301
37_22	5/16/15	220	860	1080	0.25	530	1900	2430	0.25	0.25	1524	0.245624	0.908592	0.773042	1.155697	0.21632
37_23	6/11/15	890	3300	4190	0.23	1100	3900	5000	0.23	0.23	1550	0.23981	0.907107	0.770092	1.151288	0.199776
37_24	8/11/15	390	1500	1890	0.21	620	2400	3020	0.19	0.2	1611	0.226706	0.903633	0.763347	1.141203	0.175254
37_25	10/9/15	390	1600	1990	0.2	450	1700	2150	0.18	0.19	1670	0.214713	0.900286	0.757044	1.131781	0.167877
37_26	12/13/15	480	2100	2580	0.19	450	2000	2450	0.24	0.215	1735	0.202233	0.896613	0.750341	1.121759	0.191663
37_27	2/2/16	370	1700	2070	0.19	540	2500	3040	0.2	0.195	1786	0.192951	0.893741	0.745248	1.114145	0.175022
37_28	5/8/16	230	1200	1430	0.18	650	3600	4250	0.25	0.215	1882	0.17662	0.88836	0.736035	1.100372	0.195388
37_29	6/5/16	190	1100	1290	0.18	170	1000	1170	0.2	0.19	1910	0.172122	0.886797	0.733436	1.096486	0.173281
37_30	8/2/16	110	540	650	0.16	270	1400	1670	0.17	0.165	1968	0.163167	0.883568	0.72817	1.088614	0.151569
37_31	10/12/16	140	830	970	0.17	280	1600	1880	0.19	0.18	2039	0.152836	0.879631	0.721933	1.079291	0.166776
37_32	12/18/16	200	1300	1500	0.18	470	2800	3270	0.2	0.19	2106	0.143688	0.875931	0.716248	1.07079	0.177439
37_33	2/5/17	160	910	1070	0.16	280	1800	2080	0.2	0.18	2155	0.137346	0.873236	0.712206	1.064747	0.169054
37_34	5/5/17	270	1800	2070	0.22	350	2400	2750	0.21	0.215	2244	0.126535	0.868361	0.7051	1.054125	0.203961
37_35	6/4/17	280	1900	2180	0.2	140	1000	1140	0.2	0.2	2274	0.123085	0.866724	0.702771	1.050642	0.19036
37_36	8/6/17	300	2200	2500	0.18	98	780	878	0.2	0.19	2337	0.116145	0.863296	0.697981	1.043482	0.182083
37_37	10/9/17	280	2300	2580	0.19	210	1700	1910	0.16	0.175	2401	0.109495	0.859828	0.69325	1.036409	0.168852
37_38	12/10/17	64	610	674	0.18	83	750	833	0.15	0.165	2463	0.103417	0.856481	0.688791	1.029743	0.160234
37_39	2/18/18	120	1100	1220	0.19	140	1500	1640	0.16	0.175	2533	0.096958	0.852719	0.683895	1.022422	0.171162
37_40	5/25/18	130	1000	1130	0.18	64	630	694	0.18	0.18	2629	0.088752	0.847585	0.677403	1.012717	0.17774
37_41	6/13/18	100	990	1090	0.18	91	1000	1091	0.17	0.175	2648	0.087212	0.846573	0.676147	1.01084	0.173123
37_42	8/5/18	130	1300	1430	0.21	140	1500	1640	0.19	0.2	2701	0.083056	0.843755	0.672692	1.005675	0.198871
37_43	10/18/18	49	580	629	0.17	60	620	680	0.16	0.165	2775	0.077583	0.839837	0.667983	0.998635	0.165225
37_44	11/21/18	130	1400	1530	0.2	94	1000	1094	0.18	0.19	2809	0.07519	0.838043	0.665863	0.995465	0.190866
37_45	12/9/18	73	840	913	0.2	89	1100	1189	0.16	0.18	2827	0.073954	0.837095	0.664751	0.993802	0.181123
37_46	5/19/19	100	1300	1400	0.18	64	900	964	0.15	0.165	2988	0.06376	0.82866	0.655109	0.979388	0.168473
37_47	6/9/19	150	1800	1950	0.18	68	960	1028	0.14	0.16	3009	0.062538	0.827566	0.65389	0.977565	0.163672
37_48	8/3/19	180	2500	2680	0.17	75	1000	1075	0.14	0.155	3064	0.059448	0.824708	0.650736	0.972851	0.159326
37_49	10/9/19	130	1900	2030	0.17	63	890	953	0.16	0.165	3131	0.05589	0.82124	0.646969	0.967219	0.170592
37_50	11/13/19	32	450	482	0.16	51	730	781	0.14	0.15	3166	0.054117	0.819434	0.645032	0.964323	0.15555
37_51	12/13/19	62	980	1042	0.17	70	1100	1170	0.15	0.16	3196	0.052641	0.817889	0.643388	0.961866	0.166343
37_52	8/4/20	86	1600	1686	0.13	26	450	476	0.11	0.12	3431	0.042394	0.805888	0.630996	0.943339	0.127208
37_53	10/13/20	66	1400	1466	0.14	52	970	1022	0.13	0.135	3501	0.039747	0.802348	0.627457	0.938049	0.143916
37_54	11/12/20	50	1200	1250	0.14	80	1600	1680	0.11	0.125	3531	0.038663	0.800835	0.62596	0.935811	0.133574
37_55	12/6/20	39	770	809	0.14	65	1500	1565	0.12	0.13	3555	0.037818	0.799627	0.624771	0.934032	0.139181
37_56	5/20/21	17	290	307	0.12	5.7	17	17	0.11	0.115	3720	0.032485	0.791371	0.61678	0.922087	0.124717
37_57	6/5/21	23	670	693	0.14	8.1	120	120	0.12	0.13	3736	0.03201	0.790575	0.616022	0.920953	0.141158
37_58	8/3/21	70	1700	1770	0.14	21	580	601	0.12	0.13	3795	0.030316	0.787647	0.61325	0.916808	0.141796
37_59	10/19/21	21	530	551	0.13	15	400	415	0.11	0.12	3872	0.02824	0.783841	0.609685	0.91148	0.131654
37_60	11/15/21	30	790	820	0.14	28	750	778	0.12	0.13	3899	0.027547	0.782511	0.60845	0.909632	0.142915
37_61	12/7/21	35	780	815	0.13	51	1300	1351	0.15	0.14	3921	0.026994	0.781429	0.607448	0.908135	0.154162
37_62	5/11/22	6.7	190	190	0.14	7.1	180	187.1	0.12	0.13	4076	0.023402	0.773848	0.600517	0.897773	0.144803
37_63	6/9/22	13	350	363	0.13	9.1	34	34	0.11	0.12	4105	0.022785	0.772437	0.599244	0.895869	0.133948
37_64	8/4/22	7.1	140	140	0.11	25	760	785	0.12	0.115	4161	0.021639	0.769721	0.596805	0.892223	0.128892
37_65	10/6/22	8.7	240	240	0.12	27	1100	1127	0.11	0.115	4224	0.020419	0.766677	0.594091	0.888166	0.12948
37_66	11/5/22	9.3	200	209.3	0.11	6.7	200	206.7	0.12	0.115	4254	0.019863	0.765232	0.59281	0.88625	0.12976
37_67	12/8/22	19	640	659	0.1	19	480	499	0.13	0.115	4287	0.019268	0.763645	0.591408	0.884155	0.130068
37_68	5/29/23	9.3	140	140	0.12	6.4	20	20	0.12	0.12	4459	0.016444	0.755428	0.584229	0.873422	0.137391
37_69	6/29/23	8.5	220	220	0.1	8.9	96	96	0.11	0.105	4490	0.015982	0.753956	0.582957	0.87152	0.120479
37_70	8/18/23	19	860	879	0.11	9.1	23	23	0.1	0.105	4540	0.015262	0.751589	0.580918	0.868472	0.120902
37_71	10/30/23	12	650	662	0.11	9.1	450	450	0.09	0.1	4613	0.014269	0.748146	0.577969	0.864084	0.115732
37_72	11/23/23	14	790	804	0.08	24	900	924	0.12	0.1	4637	0.013957	0.747017	0.577007	0.862625	0.115925
37_73	12/21/23	10	530	540	0.11	9.5	270	270	0.12	0.115	4665	0.013602	0.745703	0.575888	0.860953	0.133573
37_74	5/23/24	9.5	460	460	0.12	12	790	802	0.09	0.105	4819	0.011803	0.738514	0.569817	0.851877	0.123257
37_75	6/29/24	18	920	938	0.11	8.6	33	33	0.09	0.1	4856	0.011407	0.736797	0.568378	0.849725	0.117685
37_76	8/15/24	8	620	628	0.09	6	30	30	0.09	0.09	4903	0.010924	0.734622	0.56656	0.847007	0.106256

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
38_1	11/23/11					570	720	1290	0.41	0.41	254	0.791368	0.98415	1.000985	0.410404	0.999016
38_2	1/5/12					600	770	1370	0.39	0.39	297	0.760632	0.981492	0.989372	0.405642	0.961438
38_3	2/26/12					670	910	1580	0.36	0.36	349	0.725054	0.978287	0.975831	0.400091	0.899796
38_4	5/24/12					11	540	810	0.36	0.36	437	0.668595	0.972887	0.954102	0.391182	0.920288
38_5	7/10/12					8.4	460	710	0.28	0.28	484	0.640264	0.970015	0.943074	0.38666	0.72415
38_6	9/4/12					18	1800	3000	0.266	0.266	540	0.608071	0.966604	0.93043	0.381476	0.697291
38_7	11/7/12					14	1100	1800	0.27	0.27	604	0.573256	0.962721	0.916607	0.375809	0.71845
38_8	1/8/13				0.15	11	600	1100	0.24	0.195	666	0.541431	0.958974	0.90382	0.370566	0.526222
38_9	2/14/13				0.12	11	780	1400	0.24	0.18	703	0.523287	0.956745	0.896458	0.367548	0.489732
38_10	6/3/13				0.246	420	880	1300	0.204	0.225	812	0.473294	0.950208	0.875872	0.359108	0.626553
38_11	7/16/13				0.23	680	1400	2080	0.19	0.21	855	0.454912	0.947641	0.868178	0.355953	0.589966
38_12	8/14/13				0.21	640	1400	2040	0.19	0.2	884	0.442919	0.945914	0.863118	0.353878	0.565166
38_13	10/7/13				0.19	320	700	1020	0.17	0.18	938	0.421425	0.942707	0.853963	0.350125	0.514103
38_14	12/12/13				0.15	370	880	1250	0.15	0.15	1004	0.396565	0.938801	0.843224	0.345722	0.433875
38_15	2/8/14				0.13	240	580	820	0.166	0.148	1062	0.375932	0.935382	0.834175	0.342012	0.432733
38_16	5/20/14				0.12	160	480	640	0.16	0.14	1163	0.342532	0.929459	0.819229	0.335884	0.416811
38_17	6/14/14				0.13	140	420	560	0.16	0.145	1188	0.334733	0.927998	0.81568	0.334429	0.433575
38_18	8/5/14				0.09	210	530	740	0.17	0.13	1240	0.319076	0.924968	0.808479	0.331476	0.392185
38_19	10/18/14				0.07	190	580	770	0.16	0.115	1314	0.298049	0.920673	0.798636	0.327441	0.351209
38_20	12/12/14				0.11	130	410	540	0.17	0.14	1369	0.283324	0.917493	0.791611	0.32456	0.431353
38_21	2/4/15				0.09	110	390	500	0.16	0.125	1423	0.269575	0.914382	0.784942	0.321826	0.388408
38_22	5/18/15				0.09	0.84	1.5	1.5	0.09	0.09	1526	0.245172	0.908477	0.772813	0.316853	0.284043
38_23	6/11/15				0.09	33	120	153	0.08	0.085	1550	0.23981	0.907107	0.770092	0.315738	0.269211
38_24	8/10/15				0.04	48	190	238	0.07	0.055	1610	0.226915	0.90369	0.763455	0.313017	0.175709
38_25	10/13/15				0.07	50	200	250	0.11	0.09	1674	0.213923	0.900059	0.756625	0.310216	0.29012
38_26	12/13/15				0.1	74	320	394	0.1	0.1	1735	0.202233	0.896613	0.750341	0.30764	0.325056
38_27	2/9/16				0.09	47	250	297	0.1	0.095	1793	0.191711	0.893347	0.74456	0.305269	0.3112
38_28	5/22/16				0.07	78	440	518	0.11	0.09	1896	0.174357	0.887578	0.734731	0.30124	0.298766
38_29	6/5/16				0.1	150	880	1030	0.09	0.095	1910	0.172122	0.886797	0.733436	0.300709	0.31592
38_30	8/15/16				0.07	4.8	19	19	0.07	0.07	1981	0.161225	0.882846	0.727011	0.298075	0.234841
38_31	10/16/16				0.08	61	360	421	0.08	0.08	2043	0.152274	0.879409	0.721589	0.295851	0.270406
38_32	12/4/16				0.07	160	990	1150	0.08	0.075	2092	0.145553	0.876703	0.71742	0.294142	0.254979
38_33	2/5/17				0.07	270	1900	2170	0.11	0.09	2155	0.137346	0.873236	0.712206	0.292004	0.308215
38_34	5/5/17				0.07	85	590	675	0.1	0.085	2244	0.126535	0.868361	0.7051	0.289091	0.294025
38_35	6/4/17				0.06	16	110	126	0.1	0.08	2274	0.123085	0.866724	0.702771	0.288136	0.277647
38_36	8/6/17				0.07	50	350	400	0.08	0.075	2337	0.116145	0.863296	0.697981	0.286172	0.26208
38_37	10/15/17				0.07	81	600	681	0.08	0.075	2407	0.108892	0.859504	0.692814	0.284054	0.264035
38_38	12/10/17				0.07	47	370	417	0.09	0.08	2463	0.103417	0.856481	0.688791	0.282404	0.283282
38_39	2/18/18				0.06	41	430	471	0.09	0.075	2533	0.096958	0.852719	0.683895	0.280397	0.267478
38_40	5/5/18				0.07	35	330	365	0.07	0.07	2609	0.090402	0.848652	0.678735	0.278281	0.251544
38_41	6/13/18				0.08	67	620	687	0.07	0.075	2648	0.087212	0.846573	0.676147	0.27722	0.270543
38_42	8/5/18				0.08	60	640	700	0.08	0.08	2701	0.083056	0.843755	0.672692	0.275804	0.290061
38_43	10/18/18				0.07	39	400	439	0.09	0.08	2775	0.077583	0.839837	0.667983	0.273873	0.292106
38_44	11/11/18				0.08	57	700	757	0.08	0.08	2799	0.075886	0.83857	0.666484	0.273258	0.292763
38_45	12/9/18				0.08	27	330	357	0.08	0.08	2827	0.073954	0.837095	0.664751	0.272548	0.293527
38_46	5/19/19				0.08	38	390	428	0.08	0.08	2988	0.06376	0.82866	0.655109	0.268595	0.297847
38_47	6/9/19				0.09	31	430	461	0.09	0.09	3009	0.062538	0.827566	0.65389	0.268095	0.335702
38_48	8/5/19				0.07	13	160	173	0.08	0.075	3066	0.059339	0.824605	0.650623	0.266755	0.281157
38_49	10/11/19				0.08	49	730	779	0.07	0.075	3133	0.055787	0.821137	0.646858	0.265212	0.282793
38_50	11/13/19				0.08	47	820	867	0.08	0.08	3166	0.054117	0.819434	0.645032	0.264463	0.3025
38_51	12/14/19				0.08	37	680	717	0.07	0.075	3197	0.052593	0.817838	0.643334	0.263767	0.284342
38_52	8/4/20				0.06	43	700	743	0.06	0.06	3431	0.042394	0.805888	0.630996	0.258708	0.231921
38_53	10/11/20				0.08	12	250	262	0.05	0.065	3499	0.03982	0.802449	0.627558	0.257299	0.252625
38_54	11/12/20				0.08	59	1100	1159	0.06	0.07	3531	0.038663	0.800835	0.62596	0.256644	0.272752
38_55	12/8/20				0.07	38	910	948	0.06	0.065	3557	0.037748	0.799527	0.624672	0.256116	0.253792
38_56	5/21/21				0.06	8.8	8.1		0.06	0.06	3721	0.032455	0.791322	0.616733	0.25286	0.237285
38_57	6/8/21				0.07	7.2	9.7	9.7	0.07	0.07	3739	0.031921	0.790426	0.61588	0.252511	0.277216
38_58	8/29/21				0.07	8.8	9.9		0.06	0.065	3821	0.029599	0.78636	0.612039	0.250936	0.25903
38_59	10/19/21				0.08	4.8	16	16	0.06	0.07	3872	0.02824	0.783841	0.609685	0.249971	0.280032
38_60	11/16/21				0.08	7.8	8.8	8.8	0.06	0.07	3900	0.027521	0.782462	0.608404	0.249446	0.280622
38_61	12/24/21				0.07	9.5	45	45	0.08	0.075	3938	0.026574	0.780594	0.606677	0.248738	0.301523
38_62	5/11/22				0.07	6	11	11	0.06	0.065	4076	0.023402	0.773848	0.600517	0.246212	0.264
38_63	6/9/22				0.06	5	68	68	0.05	0.055	4105	0.022785	0.772437	0.599244	0.24569	0.223859
38_64	8/5/22				0.06	7.4	18	18	0.05	0.055	4162	0.02162	0.769673	0.596761	0.244672	0.224791
38_65	10/6/22				0.06	7.4	40	40	0.05	0.055	4224	0.020419	0.766677	0.594091	0.243577	0.225801
38_66	11/25/22				0.08	6.1	6.9		0.08	0.08	4274	0.0195	0.76427	0.591959	0.242703	0.329621
38_67	12/13/22				0.08	9	23	23	0.06	0.07	4292	0.019179	0.763405	0.591196	0.24239	0.28879
38_68	5/30/23				0.07	7.8	10	10	0.07	0.07	4460	0.016429	0.75538	0.584188	0.239517	0.292255
38_69	6/21/23				0.07	6.9	13	13	0.05	0.06	4482	0.0161	0.754336	0.583284	0.239147	0.250892
38_70	8/29/23				0.07	8.5	21	21	0.05	0.06	4551	0.015108	0.751069	0.580471	0.237993	0.252108
38_71	10/26/23				0.07	6.1	13	13	0.07	0.07	4609	0.014322	0.748334	0.57813	0.237033	0.295317
38_72	11/23/23				0.06	9	14	14	0.04	0.05	4637	0.013957	0.747017	0.577007	0.236573	0.211352
38_73	12/20/23				0.06	7.2	51	51	0.06	0.06	4664	0.013615	0.745749	0.575928	0.236131	0.254097
38_74	5/23/24				0.07	8.1	10	10	0.06	0.065	4819	0.011803	0.738514	0.569817	0.233625	0.278224
38_75	6/29/24				0.07	8.8	16	16	0.07	0.07	4856	0.011407	0.736797	0.568378	0.233035	0.300384
38_76	8/15/24				0.06	5.5	6.8		0.05	0.055	4903	0.010924	0.734622	0.56656	0.23229	0.236773

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
39_1	11/23/11	1500	1900	3400	0.62	2400	2900	5300	0.66	0.64	254	0.791368	0.98415	1.000985	0.64063	0.999016
39_2	1/5/12	2700	3500	6200	0.94	2600	3300	5900	0.61	0.775	297	0.760632	0.981492	0.989372	0.633198	1.223946
39_3	2/26/12	1500	2100	3600	0.44	560	780	1340	0.42	0.43	349	0.725054	0.978287	0.975831	0.624532	0.688516
39_4	5/24/12	11	670	1000	0.44	15	960	1400	0.43	0.435	437	0.668595	0.972887	0.954102	0.610625	0.712385
39_5	7/10/12	21	2400	3700	0.41	14	850	1300	0.41	0.41	484	0.640264	0.970015	0.943074	0.603567	0.679295
39_6	9/4/12	23	2500	4000	0.424	16	1200	1800	0.422	0.423	540	0.608071	0.966604	0.93043	0.595475	0.710357
39_7	11/7/12	17	1500	2500	0.45	14	760	1300	0.46	0.455	604	0.573256	0.962721	0.916607	0.586628	0.775619
39_8	1/8/13	18	1500	2800	0.38	13	920	1700	0.4	0.39	666	0.541431	0.958974	0.90382	0.578445	0.674222
39_9	2/14/13	15	1100	2000	0.35	15	920	1700	0.34	0.345	703	0.523287	0.956745	0.896458	0.573733	0.601325
39_10	6/3/13	1100	2300	3400	0.306	740	1500	2240	0.342	0.324	812	0.473294	0.950208	0.875872	0.560558	0.577995
39_11	7/10/13	980	2100	3080	0.3	890	1900	2790	0.27	0.285	849	0.457433	0.947999	0.869238	0.556312	0.512302
39_12	8/14/13	1300	2800	4100	0.31	900	1900	2800	0.29	0.3	884	0.442919	0.945914	0.863118	0.552395	0.543089
39_13	10/7/13	1400	3100	4500	0.3	860	1900	2760	0.27	0.285	938	0.421425	0.942707	0.853963	0.546536	0.521466
39_14	12/8/13	760	1800	2560	0.28	1700	3900	5600	0.28	0.28	1000	0.398029	0.939037	0.843861	0.540071	0.51845
39_15	2/8/14	990	2500	3490	0.248	660	1700	2360	0.258	0.253	1062	0.375932	0.935382	0.834175	0.533872	0.473896
39_16	5/20/14	720	2000	2720	0.29	590	1700	2290	0.26	0.275	1163	0.342532	0.929459	0.819229	0.524307	0.524502
39_17	6/14/14	750	2200	2950	0.26	580	1600	2180	0.24	0.25	1188	0.334733	0.927998	0.81568	0.522035	0.478895
39_18	8/5/14	1100	3000	4100	0.28	720	2100	2820	0.22	0.25	1240	0.319076	0.924968	0.808479	0.517427	0.48316
39_19	10/18/14	1800	5800	7600	0.24	540	1600	2140	0.24	0.24	1314	0.298049	0.920673	0.798636	0.511127	0.469551
39_20	12/12/14	610	2200	2810	0.24	660	1900	2560	0.22	0.23	1369	0.283324	0.917493	0.791611	0.506631	0.45398
39_21	2/8/15	590	2000	2590	0.24	540	1800	2340	0.2	0.22	1427	0.268583	0.914152	0.784457	0.502052	0.438201
39_22	5/18/15	260	1000	1260	0.22	530	1900	2430	0.23	0.225	1526	0.245172	0.908477	0.772813	0.4946	0.454913
39_23	6/15/15	800	3000	3800	0.21	400	1500	1900	0.21	0.21	1554	0.238928	0.906879	0.769643	0.492571	0.426334
39_24	8/10/15	380	1600	1980	0.22	340	1400	1740	0.21	0.215	1610	0.226915	0.90369	0.763455	0.488611	0.440022
39_25	10/13/15	770	3200	3970	0.22	380	1500	1880	0.22	0.22	1674	0.213923	0.900059	0.756625	0.48424	0.45432
39_26	12/13/15	480	2300	2780	0.19	510	2300	2810	0.19	0.19	1735	0.202233	0.896613	0.750341	0.480218	0.395654
39_27	2/9/16	260	1400	1660	0.19	340	1400	1740	0.19	0.19	1793	0.191711	0.893347	0.74456	0.476518	0.398726
39_28	5/22/16	150	800	950	0.2	290	1400	1690	0.19	0.195	1896	0.174357	0.887578	0.734731	0.470228	0.414693
39_29	6/16/16	230	1200	1430	0.18	270	1400	1670	0.19	0.185	1921	0.170387	0.886184	0.732425	0.468752	0.394665
39_30	8/21/16	400	2100	2500	0.2	270	1500	1770	0.18	0.19	1987	0.160336	0.882513	0.726479	0.464947	0.408649
39_31	10/16/16	310	1500	1810	0.2	310	1600	1910	0.19	0.195	2043	0.152274	0.879409	0.721589	0.461817	0.422245
39_32	12/4/16	240	1400	1640	0.2	260	1600	1860	0.17	0.185	2092	0.145553	0.876703	0.71742	0.459149	0.402919
39_33	2/17/17	180	1100	1280	0.2	190	1100	1290	0.17	0.185	2167	0.135836	0.872577	0.71123	0.455187	0.406426
39_34	5/5/17	180	1300	1480	0.18	270	1900	2170	0.17	0.175	2244	0.126535	0.868361	0.7051	0.451264	0.387799
39_35	6/3/17	140	920	1060	0.17	210	1400	1610	0.18	0.175	2273	0.123199	0.866779	0.702848	0.449823	0.389042
39_36	8/19/17	150	1300	1450	0.11	230	1800	2030	0.12	0.115	2350	0.114763	0.862591	0.697009	0.446086	0.257798
39_37	10/20/17	140	1200	1340	0.17	110	880	990	0.14	0.155	2412	0.108391	0.859233	0.692451	0.443168	0.349754
39_38	12/20/17	91	780	871	0.14	100	880	980	0.14	0.14	2473	0.102468	0.855943	0.688083	0.440373	0.317912
39_39	2/5/18	140	1400	1540	0.15	130	1100	1230	0.13	0.14	2520	0.098126	0.853416	0.684793	0.438268	0.319439
39_40	5/5/18	100	940	1040	0.17	150	1400	1550	0.17	0.17	2609	0.090402	0.848652	0.678735	0.43439	0.391353
39_41	6/17/18	89	870	959	0.16	89	850	939	0.13	0.145	2652	0.086891	0.84636	0.675884	0.432566	0.335209
39_42	8/5/18	110	1200	1310	0.16	100	1100	1200	0.17	0.165	2701	0.083056	0.843755	0.672692	0.430523	0.383255
39_43	10/18/18	100	1300	1400	0.16	140	1700	1840	0.15	0.155	2775	0.077583	0.839837	0.667983	0.427509	0.362565
39_44	11/19/18	91	960	1051	0.15	130	1400	1530	0.15	0.15	2807	0.075329	0.838148	0.665987	0.426232	0.351921
39_45	12/9/18	76	930	1006	0.17	140	1600	1740	0.16	0.165	2827	0.073954	0.837095	0.664751	0.42544	0.387833
39_46	5/19/19	120	1800	1920	0.15	110	1700	1810	0.14	0.145	2988	0.06376	0.82866	0.655109	0.41927	0.345839
39_47	6/9/19	140	2000	2140	0.15	54	760	814	0.14	0.145	3009	0.062538	0.827566	0.65389	0.418489	0.346484
39_48	8/19/19	180	2500	2680	0.14	45	720	765	0.15	0.145	3080	0.058578	0.823879	0.649829	0.415891	0.348649
39_49	10/11/19	110	1600	1710	0.14	73	1100	1173	0.13	0.135	3133	0.055787	0.821137	0.646858	0.413989	0.326096
39_50	11/20/19	64	990	1054	0.15	81	1300	1381	0.14	0.145	3173	0.053769	0.819073	0.644647	0.412574	0.351452
39_51	12/14/19	50	860	910	0.14	98	1500	1598	0.15	0.145	3197	0.052593	0.817838	0.643334	0.411734	0.352169
39_52	8/20/20	50	890	940	0.12	46	870	916	0.12	0.12	3447	0.041774	0.805078	0.630182	0.403316	0.297533
39_53	10/12/20	59	1200	1259	0.11	32	650	682	0.1	0.105	3500	0.039783	0.802398	0.627507	0.401605	0.261451
39_54	11/19/20	48	860	908	0.12	37	820	857	0.12	0.12	3538	0.038415	0.800483	0.625613	0.400392	0.299706
39_55	12/8/20	36	740	776	0.13	38	740	778	0.12	0.125	3557	0.037748	0.799527	0.624672	0.39979	0.312664
39_56	5/21/21	94	2200	2294	0.12	28	800	828	0.09	0.105	3721	0.032455	0.791322	0.616733	0.394709	0.266019
39_57	6/8/21	26	590	616	0.13	38	890	928	0.12	0.125	3739	0.031921	0.790426	0.61588	0.394163	0.317127
39_58	8/9/21	31	1400	1431	0.12	22	650	672	0.12	0.12	3801	0.030149	0.78735	0.61297	0.392301	0.305888
39_59	10/19/21	50	1600	1650	0.11	28	770	798	0.12	0.115	3872	0.02824	0.783841	0.609685	0.390199	0.294722
39_60	11/16/21	42	1200	1242	0.14	31	770	801	0.12	0.13	3900	0.027521	0.782462	0.608404	0.389379	0.333865
39_61	12/24/21	22	800	822	0.12	28	750	778	0.13	0.125	3938	0.026574	0.780594	0.606677	0.388273	0.321938
39_62	5/11/22	33	980	1013	0.12	19	700	719	0.12	0.12	4076	0.023402	0.773848	0.600517	0.384331	0.312231
39_63	6/9/22	22	710	732	0.09	68	2700	2768	0.09	0.09	4105	0.022785	0.772437	0.599244	0.383516	0.234671
39_64	8/5/22	24	900	924	0.11	13	520	533	0.09	0.1	4162	0.02162	0.769673	0.596761	0.381927	0.26183
39_65	10/6/22	47	1900	1947	0.1	24	1200	1224	0.09	0.095	4224	0.020419	0.766677	0.594091	0.380218	0.249857
39_66	11/5/22	40	1400	1440	0.13	19	780	799	0.13	0.13	4254	0.019863	0.765232	0.59281	0.379398	0.342648
39_67	12/8/22	25	850	875	0.12	21	1000	1021	0.11	0.115	4287	0.019268	0.763645	0.591408	0.378501	0.30383
39_68	5/30/23	34	1300	1334	0.12	25	1200	1225	0.12	0.12	4460	0.016429	0.75538	0.584188	0.37388	0.320958
39_69	6/21/23	36	1200	1236	0.12	18	1100	1118	0.11	0.115	4482	0.0161	0.754336	0.583284	0.373302	0.308062
39_70	8/29/23	23	1000	1023	0.11	21	1200	1221	0.1	0.105	4551	0.015108	0.751069	0.580471	0.371502	0.282637
39_71	10/26/23	20	850	870	0.13	18	1000	1018	0.11	0.12	4609	0.014322	0.748334	0.57813	0.370003	0.324322
39_72	11/23/23	23	970	993	0.11	17	1000	1017	0.12	0.115	4637	0.013957	0.747017	0.577007	0.369284	0.311413
39_73	12/20/23	14	620	634	0.11	16	990	1006	0.12	0.115	4664	0.013615	0.745749	0.575928	0.368594	0.311996
39_74	5/24/24	22	1000	1022	0.12	27	1100	1127	0.11	0.115	4820	0.011792	0.738468	0.569778	0.364658	0.315364
39_75	6/29/24	15	940	955	0.11	13	840	853	0.11	0.11	4856	0.011407	0.736797	0.568378	0.363762	0.302396
39_76	8/15/24	18	1300	1318	0.1	21	1100	1121	0.1	0.1	4903	0.010924	0.734622	0.56656	0.362598	0.275787

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
40_1	11/23/11	1300	1700	3000	0.28	1200	1400	2600	0.36	0.32	254	0.791368	0.98415	1.000985	0.320315	0.999016
40_2	1/6/12	3300	4200	7500	0.57	960	1200	2160	0.21	0.39	298	0.759932	0.98143	0.989106	0.316514	1.232173
40_3	2/25/12	470	660	1130	0.28	620	830	1450	0.29	0.285	348	0.725722	0.978349	0.976086	0.312348	0.912445
40_4	5/24/12	7.7	270	400	0.19	11	540	820	0.23	0.21	437	0.668595	0.972887	0.954102	0.305313	0.68782
40_5	7/10/12	6.9	200	340	0.16	12	590	960	0.2	0.18	484	0.640264	0.970015	0.943074	0.301784	0.596454
40_6	9/4/12	12	660	1100	0.19	14	940	1500	0.188	0.189	540	0.608071	0.966604	0.93043	0.297738	0.634787
40_7	11/7/12	15	900	1500	0.24	18	1700	3000	0.3	0.27	604	0.573256	0.962721	0.916607	0.293314	0.920515
40_8	12/28/12	16	980	1700	0.24	15	1100	1900	0.27	0.255	655	0.546946	0.959638	0.906047	0.289935	0.879508
40_9	2/14/13	9.7	470	930	0.16	14	740	1300	0.22	0.19	703	0.523287	0.956745	0.896458	0.286867	0.662329
40_10	6/2/13	700	1500	2200	0.168	870	1800	2670	0.168	0.168	811	0.47373	0.950267	0.876054	0.280337	0.599278
40_11	7/17/13	530	1100	1630	0.15	580	1200	1780	0.21	0.18	856	0.454493	0.947581	0.868002	0.277761	0.64804
40_12	8/14/13	600	1300	1900	0.14	790	1600	2390	0.14	0.14	884	0.442919	0.945914	0.863118	0.276198	0.506883
40_13	10/6/13	780	1800	2580	0.14	570	1200	1770	0.19	0.165	937	0.421813	0.942766	0.854129	0.273321	0.603685
40_14	12/7/13	530	1300	1830	0.14	810	1800	2610	0.19	0.165	999	0.398396	0.939096	0.844021	0.270087	0.610915
40_15	2/11/14	210	500	710	0.114	2400	6100	8500	0.126	0.12	1065	0.374895	0.935206	0.833717	0.266789	0.449793
40_16	5/20/14	1100	2800	3900	0.17	800	2200	3000	0.2	0.185	1163	0.342532	0.929459	0.819229	0.262153	0.705694
40_17	6/13/14	220	590	810	0.12	840	2300	3140	0.17	0.145	1187	0.335042	0.928057	0.815821	0.261063	0.555422
40_18	8/5/14	990	2800	3790	0.15	700	2100	2800	0.2	0.175	1240	0.319076	0.924968	0.808479	0.258713	0.676425
40_19	10/21/14	520	1600	2120	0.13	380	1200	1580	0.2	0.165	1317	0.297227	0.920499	0.798246	0.255439	0.645947
40_20	12/11/14	760	2400	3160	0.14	800	2600	3400	0.14	0.14	1368	0.283585	0.917551	0.791736	0.253356	0.552583
40_21	2/6/15	460	1700	2160	0.14	420	1400	1820	0.09	0.115	1425	0.269078	0.914267	0.784699	0.251104	0.457978
40_22	5/23/15	300	1100	1400	0.11	310	1100	1410	0.17	0.14	1531	0.244045	0.908192	0.772243	0.247118	0.566531
40_23	6/15/15	590	2200	2790	0.12	380	1400	1780	0.16	0.14	1554	0.238928	0.906879	0.769643	0.246286	0.568446
40_24	8/9/15	270	1100	1370	0.1	310	1200	1510	0.15	0.125	1609	0.227124	0.903747	0.763564	0.244341	0.511581
40_25	10/8/15	490	2000	2490	0.11	350	1600	1950	0.11	0.11	1669	0.214911	0.900342	0.75715	0.242288	0.454005
40_26	12/14/15	400	1700	2100	0.11	230	970	1200	0.11	0.11	1736	0.202047	0.896556	0.750239	0.240077	0.458187
40_27	2/11/16	450	1900	2350	0.11	260	1300	1560	0.14	0.125	1795	0.191358	0.893235	0.744364	0.238196	0.524777
40_28	5/20/16	190	1000	1190	0.11	280	1400	1680	0.13	0.12	1894	0.174678	0.88769	0.734916	0.235173	0.510262
40_29	6/19/16	93	550	643	0.13	220	1200	1420	0.14	0.135	1924	0.169917	0.886017	0.73215	0.234288	0.576214
40_30	8/15/16	170	890	1060	0.11	220	1000	1220	0.14	0.125	1981	0.161225	0.882846	0.727011	0.232644	0.537302
40_31	10/10/16	220	1200	1420	0.11	210	1200	1410	0.12	0.115	2037	0.153118	0.879741	0.722106	0.231074	0.497676
40_32	12/4/16	63	380	443	0.12	180	1300	1480	0.12	0.12	2092	0.145553	0.876703	0.71742	0.229575	0.522706
40_33	2/20/17	100	630	730	0.1	120	820	940	0.12	0.11	2170	0.135461	0.872412	0.710987	0.227516	0.483483
40_34	5/5/17	110	730	840	0.12	120	830	950	0.14	0.13	2244	0.126535	0.868361	0.7051	0.225632	0.576159
40_35	6/4/17	110	800	910	0.11	160	1200	1360	0.12	0.115	2274	0.123085	0.866724	0.702771	0.224887	0.511369
40_36	8/19/17	100	850	950	0.07	120	960	1080	0.11	0.09	2350	0.114763	0.862591	0.697009	0.223043	0.40351
40_37	10/20/17	140	1200	1340	0.1	110	860	970	0.11	0.105	2412	0.108391	0.859233	0.692451	0.221584	0.47386
40_38	12/20/17	55	560	615	0.1	110	1000	1110	0.11	0.105	2473	0.102468	0.855943	0.688083	0.220187	0.476868
40_39	2/5/18	140	1300	1440	0.09	120	1100	1220	0.1	0.095	2520	0.098126	0.853416	0.684793	0.219134	0.433525
40_40	5/5/18	91	950	1041	0.11	96	940	1036	0.11	0.11	2609	0.090402	0.848652	0.678735	0.217195	0.506457
40_41	6/17/18	120	1100	1220	0.08	100	900	1000	0.11	0.095	2652	0.086891	0.84636	0.675884	0.216283	0.43924
40_42	8/5/18	43	480	523	0.11	100	1100	1200	0.13	0.12	2701	0.083056	0.843755	0.672692	0.215262	0.557461
40_43	10/18/18	74	700	774	0.1	90	1100	1190	0.11	0.105	2775	0.077583	0.839837	0.667983	0.213755	0.491217
40_44	11/19/18	58	690	748	0.1	120	1300	1420	0.1	0.1	2807	0.075329	0.838148	0.665987	0.213116	0.469229
40_45	12/9/18	53	530	583	0.1	83	1000	1083	0.12	0.11	2827	0.073954	0.837095	0.664751	0.21272	0.517111
40_46	5/14/19	52	790	842	0.11	74	1100	1174	0.11	0.11	2983	0.064054	0.828921	0.6554	0.209728	0.524488
40_47	6/9/19	99	1400	1499	0.1	110	1400	1510	0.1	0.1	3009	0.062538	0.827566	0.65389	0.209245	0.477909
40_48	8/24/19	82	1300	1382	0.09	59	950	1009	0.1	0.095	3085	0.058309	0.82362	0.649547	0.207855	0.457049
40_49	10/11/19	120	2000	2120	0.09	63	820	883	0.09	0.09	3133	0.055787	0.821137	0.646858	0.206994	0.434794
40_50	11/20/19	38	570	608	0.09	63	1100	1163	0.11	0.1	3173	0.053769	0.819073	0.644647	0.206287	0.484761
40_51	12/14/19	39	570	609	0.09	61	1000	1061	0.11	0.1	3197	0.052593	0.817838	0.643334	0.205867	0.485751
40_52	8/20/20	40	670	710	0.08	35	590	625	0.1	0.09	3447	0.041774	0.805078	0.630182	0.201658	0.4463
40_53	10/12/20	43	770	813	0.08	24	500	524	0.09	0.085	3500	0.039783	0.802398	0.627507	0.200802	0.423302
40_54	11/19/20	17	370	387	0.08	36	720	756	0.09	0.085	3538	0.038415	0.800483	0.625613	0.200196	0.424584
40_55	12/6/20	22	380	402	0.09	46	980	1026	0.09	0.09	3555	0.037818	0.799627	0.624771	0.199927	0.450165
40_56	5/21/21	13	380	393	0.05	22	640	662	0.06	0.055	3721	0.032455	0.791322	0.616733	0.197355	0.278686
40_57	6/8/21	51	1100	1151	0.09	42	1300	1342	0.09	0.09	3739	0.031921	0.790426	0.61588	0.197082	0.456663
40_58	8/8/21	52	1500	1552	0.08	36	750	786	0.09	0.085	3800	0.030177	0.787399	0.613016	0.196165	0.433308
40_59	10/20/21	20	600	620	0.08	55	1700	1755	0.09	0.085	3873	0.028214	0.783792	0.60964	0.195085	0.435708
40_60	11/16/21	18	420	438	0.08	25	780	805	0.09	0.085	3900	0.027521	0.782462	0.608404	0.194689	0.436593
40_61	12/24/21	13	460	473	0.08	30	950	980	0.11	0.095	3938	0.026574	0.780594	0.606677	0.194137	0.489346
40_62	5/12/22	9	350	350	0.08	60	2300	2360	0.09	0.085	4077	0.02338	0.773799	0.600473	0.192151	0.44236
40_63	6/9/22	7.6	210	210	0.05	13	500	513	0.04	0.045	4105	0.022785	0.772437	0.599244	0.191758	0.234671
40_64	8/4/22	8.1	220	220	0.08	70	2400	2470	0.09	0.085	4161	0.021639	0.769721	0.596805	0.190978	0.445079
40_65	10/6/22	9.6	310	319.6	0.05	28	1200	1228	0.06	0.055	4224	0.020419	0.766677	0.594091	0.190109	0.289308
40_66	11/5/22	12	700	712	0.07	80	3000	3080	0.08	0.075	4254	0.019863	0.765232	0.59281	0.189699	0.395363
40_67	12/8/22	7.6	230	237.6	0.08	69	2700	2769	0.08	0.08	4287	0.019268	0.763645	0.591408	0.189251	0.42272
40_68	5/30/23	31	1200	1231	0.08	22	1000	1022	0.08	0.08	4460	0.016429	0.75538	0.584188	0.18694	0.427945
40_69	6/21/23	13	690	703	0.06	49	1700	1749	0.09	0.075	4482	0.0161	0.754336	0.583284	0.186651	0.401819
40_70	8/29/23	10	750	760	0.06	18	910	928	0.08	0.07	4551	0.015108	0.751069	0.580471	0.185751	0.376849
40_71	10/26/23	10	580	590	0.07	25	1400	1425	0.08	0.075	4609	0.014322	0.748334	0.57813	0.185001	0.405402
40_72	11/23/23	8.7	550	550	0.07	27	1500	1527	0.07	0.07	4637	0.013957	0.747017	0.577007	0.184642	0.379112
40_73	12/20/23	8.6	510	518.6	0.07	32	1600	1632	0.08	0.075	4664	0.013615	0.745749	0.575928	0.184297	0.406952
40_74	5/24/24	12	690	702	0.07	17	950	967	0.09	0.08	4820	0.011792	0.738468	0.569778	0.182329	0.438767
40_75	6/29/24	11	540	551	0.06	27	1500	1527	0.08	0.07	4856	0.011407	0.736797	0.568378	0.181881	0.384867
40_76	8/16/24	12	890	902	0.08	21	1300	1321	0.08	0.08	4904	0.010914	0.734576	0.566521	0.181287	0.44129

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
41_1	11/24/11	1300	1600	2900	0.36	1000	1300	2300	0.46	0.41	255	0.790639	0.984088	1.00071	0.410291	0.99929
41_2	1/6/12	1200	1600	2800	0.36	3500	4600	8100	0.39	0.375	298	0.759932	0.98143	0.989106	0.405533	0.924708
41_3	2/25/12	320	460	780	0.3	540	780	1320	0.37	0.335	348	0.725722	0.978349	0.976086	0.400195	0.837091
41_4	5/23/12	7.9	340	500	0.25	6.5	210	300	0.24	0.245	436	0.669211	0.972948	0.954341	0.39128	0.626151
41_5	7/10/12	13	650	980	0.26	14	910	1400	0.31	0.285	484	0.640264	0.970015	0.943074	0.38666	0.737081
41_6	9/4/12	14	1000	1600	0.258	14	1200	1900	0.318	0.288	540	0.608071	0.966604	0.93043	0.381476	0.754962
41_7	11/6/12	13	830	1400	0.33	12	800	1300	0.33	0.33	603	0.573784	0.962782	0.916818	0.375895	0.877904
41_8	12/28/12	13	560	1000	0.27	5.1	95	180	0.18	0.225	655	0.546946	0.959638	0.906047	0.371479	0.605687
41_9	2/14/13	8.5	340	610	0.2	5.6	110	220	0.2	0.2	703	0.523287	0.956745	0.896458	0.367548	0.544147
41_10	6/6/13	210	450	660	0.172	440	910	1350	0.278	0.225	815	0.471988	0.950028	0.875328	0.358884	0.626943
41_11	7/16/13	570	1300	1870	0.19	350	770	1120	0.25	0.22	855	0.454912	0.947641	0.868178	0.355953	0.618059
41_12	8/14/13	330	670	1000	0.14	830	1800	2630	0.24	0.19	884	0.442919	0.945914	0.863118	0.353878	0.536908
41_13	10/6/13	370	820	1190	0.18	360	790	1150	0.23	0.205	937	0.421813	0.942766	0.854129	0.350193	0.585392
41_14	12/7/13	870	2100	2970	0.18	370	830	1200	0.24	0.21	999	0.398396	0.939096	0.844021	0.346049	0.606851
41_15	2/11/14	720	1700	2420	0.172	70	210	280	0.216	0.194	1065	0.374895	0.935206	0.833717	0.341824	0.567544
41_16	5/20/14	590	1600	2190	0.18	53	210	263	0.16	0.17	1163	0.342532	0.929459	0.819229	0.335884	0.506127
41_17	6/14/14	200	630	830	0.13	74	210	284	0.13	0.13	1188	0.334733	0.927998	0.81568	0.334429	0.388723
41_18	8/5/14	520	1500	2020	0.17	67	220	287	0.15	0.16	1240	0.319076	0.924968	0.808479	0.331476	0.482689
41_19	10/18/14	640	2100	2740	0.16	130	420	550	0.17	0.165	1314	0.298049	0.920673	0.798636	0.327441	0.503908
41_20	12/14/14	570	1900	2470	0.14	78	260	338	0.15	0.145	1371	0.282803	0.917378	0.79136	0.324457	0.4469
41_21	2/8/15	320	1200	1520	0.17	81	290	371	0.16	0.165	1427	0.268583	0.914152	0.784457	0.321627	0.513016
41_22	5/23/15	130	530	660	0.16	25	110	135	0.12	0.14	1531	0.244045	0.908192	0.772243	0.31662	0.442171
41_23	6/10/15	810	2900	3710	0.14	67	280	347	0.11	0.125	1549	0.240031	0.907164	0.770205	0.315784	0.39584
41_24	8/9/15	230	990	1220	0.17	32	140	172	0.08	0.125	1609	0.227124	0.903747	0.763564	0.313061	0.399283
41_25	10/8/15	350	1500	1850	0.11	130	580	710	0.12	0.115	1669	0.214911	0.900342	0.75715	0.310431	0.370452
41_26	12/14/15	300	1400	1700	0.13	11	49	60	0.09	0.11	1736	0.202047	0.896556	0.750239	0.307598	0.357609
41_27	2/11/16	110	600	710	0.12	16	62	78	0.09	0.105	1795	0.191358	0.893235	0.744364	0.305189	0.344049
41_28	5/20/16	100	520	620	0.13	7.9	42	49.9	0.1	0.115	1894	0.174678	0.88769	0.734916	0.301316	0.381659
41_29	6/15/16	160	900	1060	0.13	7.7	44	51.7	0.1	0.115	1920	0.170544	0.88624	0.732516	0.300332	0.38291
41_30	8/3/16	260	1400	1660	0.14	7.1	44	51.1	0.11	0.125	1969	0.163017	0.883512	0.728081	0.298513	0.418742
41_31	10/12/16	180	980	1160	0.15	21	120	141	0.12	0.135	2039	0.152836	0.879631	0.721933	0.295993	0.456092
41_32	12/12/16	150	890	1040	0.13	8.8	65	73.8	0.12	0.125	2100	0.144485	0.876262	0.716749	0.293867	0.425362
41_33	2/13/17	130	840	970	0.13	11	84	95	0.11	0.12	2163	0.136338	0.872797	0.711555	0.291737	0.411329
41_34	5/4/17	170	1200	1370	0.14	7	52	59	0.1	0.12	2243	0.126651	0.868416	0.705178	0.289123	0.415048
41_35	6/19/17	180	1600	1780	0.12	6.5	58	64.5	0.11	0.115	2289	0.121396	0.865907	0.701618	0.287663	0.399773
41_36	8/17/17	140	1200	1340	0.11	6	42	48	0.1	0.105	2348	0.114974	0.862699	0.697158	0.285835	0.367345
41_37	10/11/17	83	660	743	0.12	9.1	71	80.1	0.11	0.115	2403	0.109794	0.85972	0.693105	0.284173	0.404683
41_38	12/20/17	59	540	599	0.1	7.3	49	56.3	0.11	0.105	2473	0.102468	0.855943	0.688083	0.282114	0.37219
41_39	2/20/18	120	1000	1120	0.12	5.3	49	49	0.09	0.105	2535	0.09678	0.852611	0.683757	0.28034	0.374545
41_40	5/21/18	19	290	309	0.11	5.2	39	44.2	0.1	0.105	2625	0.089079	0.847798	0.677668	0.277844	0.37791
41_41	6/14/18	100	1000	1100	0.12	5.4	40	40	0.11	0.115	2649	0.087131	0.846519	0.676081	0.277193	0.414873
41_42	8/18/18	47	580	627	0.11	7.7	36	36	0.1	0.105	2714	0.082067	0.843066	0.671856	0.275461	0.38118
41_43	10/11/18	72	850	922	0.12	5.1	49	54.1	0.09	0.105	2768	0.078084	0.840207	0.668423	0.274054	0.383137
41_44	11/19/18	67	760	827	0.1	5.8	48	48	0.1	0.1	2807	0.075329	0.838148	0.665987	0.273055	0.366227
41_45	12/20/18	49	590	639	0.12	6.6	48	48	0.1	0.11	2838	0.073208	0.836516	0.664074	0.27227	0.40401
41_46	5/14/19	87	990	1077	0.12	3.8	37	37	0.11	0.115	2983	0.064054	0.828921	0.6554	0.268714	0.427964
41_47	6/14/19	65	810	875	0.1	5	40	40	0.1	0.1	3014	0.062251	0.827306	0.653601	0.267976	0.373167
41_48	8/5/19	93	1100	1193	0.11	5	41	41	0.09	0.1	3066	0.059339	0.824605	0.650623	0.266755	0.374875
41_49	10/11/19	54	740	794	0.11	5.2	38	38	0.09	0.1	3133	0.055787	0.821137	0.646858	0.265212	0.377057
41_50	11/11/19	37	550	587	0.11	6.4	54	54	0.09	0.1	3164	0.054216	0.819537	0.645142	0.264508	0.37806
41_51	12/14/19	17	320	337	0.11	7.8	60	60	0.08	0.095	3197	0.052593	0.817838	0.643334	0.263767	0.360167
41_52	8/18/20	30	640	670	0.09	7.6	25	25	0.08	0.085	3445	0.041851	0.805179	0.630283	0.258416	0.328927
41_53	10/12/20	28	580	608	0.1	5.6	55	55	0.08	0.09	3500	0.039783	0.802398	0.627507	0.257278	0.349816
41_54	11/19/20	15	320	335	0.1	7.3	70	70	0.08	0.09	3538	0.038415	0.800483	0.625613	0.256501	0.350876
41_55	12/13/20	17	370	387	0.1	4.8	34	34	0.08	0.09	3562	0.037575	0.799275	0.624425	0.256014	0.351543
41_56	5/21/21	7.8	180	187.8	0.06	7.6	69	69	0.05	0.055	3721	0.032455	0.791322	0.616733	0.25286	0.217511
41_57	6/8/21	29	770	799	0.09	24	500	524	0.08	0.085	3739	0.031921	0.790426	0.61588	0.252511	0.336619
41_58	8/8/21	25	750	775	0.09	5.8	56	56	0.08	0.085	3800	0.030177	0.787399	0.613016	0.251337	0.338192
41_59	10/20/21	24	600	624	0.1	6.5	55	55	0.08	0.09	3873	0.028214	0.783792	0.60964	0.249952	0.360069
41_60	11/16/21	17	610	627	0.09	8.1	32	32	0.08	0.085	3900	0.027521	0.782462	0.608404	0.249446	0.340756
41_61	12/24/21	22	540	562	0.09	7.8	42	42	0.09	0.09	3938	0.026574	0.780594	0.606677	0.248738	0.361827
41_62	5/12/22	33	1000	1033	0.09	7.7	23	23	0.08	0.085	4077	0.02338	0.773799	0.600473	0.246194	0.345256
41_63	6/9/22	37	1300	1337	0.06	7.2	31	31	0.05	0.055	4105	0.022785	0.772437	0.599244	0.24569	0.223859
41_64	8/4/22	12	460	472	0.09	8.1	33	33	0.08	0.085	4161	0.021639	0.769721	0.596805	0.24469	0.347378
41_65	10/6/22	15	570	585	0.06	7.1	46	46	0.06	0.06	4224	0.020419	0.766677	0.594091	0.243577	0.246328
41_66	11/5/22	10	490	490	0.09	6.9	48	48	0.09	0.09	4254	0.019863	0.765232	0.59281	0.243052	0.370291
41_67	12/8/22	9	200	200	0.08	7.9	63	63	0.09	0.085	4287	0.019268	0.763645	0.591408	0.242477	0.350548
41_68	5/30/23	16	670	686	0.08	7.5	32	32	0.08	0.08	4460	0.016429	0.75538	0.584188	0.239517	0.334005
41_69	6/21/23	8.1	190	190	0.08	9.5	27	27	0.06	0.07	4482	0.0161	0.754336	0.583284	0.239147	0.292707
41_70	8/29/23	16	900	916	0.07	7.6	76	76	0.06	0.065	4551	0.015108	0.751069	0.580471	0.237993	0.273117
41_71	10/26/23	8.8	400	408.8	0.08	8.9	410	410	0.08	0.08	4609	0.014322	0.748334	0.57813	0.237033	0.337506
41_72	11/23/23	12	480	492	0.08	9.5	73	73	0.09	0.085	4637	0.013957	0.747017	0.577007	0.236573	0.359298
41_73	12/20/23	9.8	620	620	0.08	5.8	39	39	0.07	0.075	4664	0.013615	0.745749	0.575928	0.236131	0.317621
41_74	5/24/24	14	520	534	0.08	5.9	86	86	0.09	0.085	4820	0.011792	0.738468	0.569778	0.233609	0.363856
41_75	6/29/24	8.4	330	330	0.08	7.7	36	36	0.08	0.08	4856	0.011407	0.736797	0.568378	0.233035	0.343296
41_76	8/17/24	8.1	550	550	0.07	6.6	37	37	0.07	0.07	4905	0.010904	0.73453	0.566483	0.232258	0.301389

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
42_1	11/29/11	620	840	1460	0.23	390	540	930	0.2	0.215	260	0.787006	0.983779	0.999341	0.214858	1.000659
42_2	1/18/12	690	1000	1690	0.2	610	820	1430	0.22	0.21	310	0.751577	0.98069	0.985936	0.211976	0.990677
42_3	5/23/12	5.6	9.2	15	0.16	8.1	200	290	0.19	0.175	436	0.669211	0.972948	0.954341	0.205183	0.852896
42_4	7/12/12	11	450	710	0.19	11	310	500	0.21	0.2	486	0.639085	0.969893	0.942613	0.202662	0.986866
42_5	8/24/12	9.4	180	290	0.14	6.8	150	250	0.17	0.155	529	0.614264	0.967273	0.932872	0.200568	0.772807
42_6	11/5/12	14	510	900	0.17	6.8	130	230	0.17	0.17	602	0.574313	0.962842	0.917029	0.197161	0.862238
42_7	1/11/13	11	230	420	0.16	7.7	170	310	0.19	0.175	669	0.539937	0.958793	0.903216	0.194191	0.901173
42_8	2/11/13					12	490	900	0.2	0.2	700	0.524735	0.956925	0.897048	0.192865	1.036993
42_9	6/5/13	250	460	710	0.142	160	350	510	0.194	0.168	814	0.472423	0.950088	0.875509	0.188234	0.892504
42_10	7/8/13	35	71	106	0.15	150	320	470	0.14	0.145	847	0.458277	0.948118	0.869592	0.186962	0.775558
42_11	8/25/13	140	300	440	0.13	330	720	1050	0.15	0.14	895	0.438454	0.94526	0.861225	0.185183	0.756089
42_12	10/9/13	150	330	480	0.12	250	520	770	0.14	0.13	940	0.420649	0.942588	0.85363	0.18353	0.708329
42_13	12/11/13	100	280	380	0.12	300	710	1010	0.13	0.125	1003	0.396931	0.93886	0.843383	0.181327	0.689361
42_14	2/7/14	150	350	500	0.114	150	400	550	0.134	0.124	1061	0.376279	0.935441	0.834328	0.179381	0.691268
42_15	5/21/14	130	380	510	0.14	360	1000	1360	0.14	0.14	1164	0.342216	0.9294	0.819086	0.176103	0.794987
42_16	6/13/14	110	330	440	0.11	450	1300	1750	0.11	0.11	1187	0.335042	0.928057	0.815821	0.175401	0.627133
42_17	8/6/14	190	590	780	0.13	650	1800	2450	0.15	0.14	1241	0.318782	0.92491	0.808343	0.173794	0.805553
42_18	10/21/14	180	590	770	0.11	300	900	1200	0.13	0.12	1317	0.297227	0.920499	0.798246	0.171623	0.699207
42_19	12/11/14	180	550	730	0.11	740	2400	3140	0.14	0.125	1368	0.283585	0.917551	0.791736	0.170223	0.73433
42_20	2/5/15	160	540	700	0.09	110	400	510	0.13	0.11	1424	0.269326	0.914325	0.784821	0.168736	0.651904
42_21	5/14/15	79	310	389	0.12	110	320	430	0.13	0.125	1522	0.246077	0.908706	0.77327	0.166253	0.751866
42_22	6/12/15	94	310	404	0.13	88	240	328	0.12	0.125	1551	0.23959	0.90705	0.76998	0.165546	0.755079
42_23	8/4/15	120	510	630	0.11	140	550	690	0.12	0.115	1604	0.228173	0.904031	0.764109	0.164283	0.70001
42_24	10/20/15	120	530	650	0.1	160	700	860	0.1	0.1	1681	0.212548	0.899663	0.755893	0.162517	0.615321
42_25	12/7/15	51	250	301	0.08	140	660	800	0.1	0.09	1729	0.203354	0.896951	0.750949	0.161454	0.557434
42_26	2/2/16	57	270	327	0.17	260	1100	1360	0.18	0.175	1786	0.192951	0.893741	0.745248	0.160228	1.092192
42_27	5/4/16	54	280	334	0.09	250	1300	1550	0.12	0.105	1878	0.177272	0.888584	0.73641	0.158328	0.66318
42_28	6/9/16	100	570	670	0.1	60	330	390	0.13	0.115	1914	0.171489	0.886574	0.733067	0.157609	0.729652
42_29	8/10/16	65	350	415	0.09	340	1700	2040	0.11	0.1	1976	0.161969	0.883123	0.727456	0.156403	0.639374
42_30	10/20/16	51	240	291	0.09	130	950	1080	0.13	0.11	2047	0.151714	0.879188	0.721245	0.155068	0.709368
42_31	12/15/16	86	550	636	0.08	82	590	672	0.09	0.085	2103	0.144086	0.876097	0.716498	0.154047	0.551779
42_32	2/16/17	92	540	632	0.08	70	500	570	0.1	0.09	2166	0.135961	0.872632	0.711311	0.152932	0.588497
42_33	5/2/17	30	240	270	0.09	130	1100	1230	0.14	0.115	2241	0.126885	0.868525	0.705335	0.151647	0.75834
42_34	6/8/17	30	340	370	0.09	75	520	595	0.12	0.105	2278	0.122633	0.866506	0.702463	0.151029	0.695229
42_35	8/10/17	40	340	380	0.09	110	850	960	0.1	0.095	2341	0.115718	0.863079	0.697681	0.150001	0.633327
42_36	10/16/17	15	110	125	0.09	37	340	377	0.11	0.1	2408	0.108792	0.85945	0.692741	0.148939	0.671414
42_37	12/14/17	29	260	289	0.08	30	290	320	0.08	0.08	2467	0.103036	0.856266	0.688508	0.148029	0.540434
42_38	2/11/18				0.07	18	190	208	0.09	0.08	2526	0.097585	0.853094	0.684378	0.147141	0.543695
42_39	5/1/18	27	320	347	0.09	110	970	1080	0.11	0.1	2605	0.090736	0.848866	0.679002	0.145986	0.684999
42_40	6/6/18	26	300	326	0.09	79	590	669	0.12	0.105	2641	0.087776	0.846946	0.676608	0.145471	0.721794
42_41	8/16/18	21	250	271	0.09	120	1200	1320	0.1	0.095	2712	0.082218	0.843172	0.671984	0.144477	0.657546
42_42	10/15/18	18	230	248	0.11	28	350	378	0.11	0.11	2772	0.077797	0.839995	0.668172	0.143657	0.765713
42_43	11/8/18	13	140	153	0.09	50	540	590	0.11	0.1	2796	0.076096	0.838728	0.66667	0.143334	0.69767
42_44	12/18/18	88	1000	1088	0.08	60	630	690	0.08	0.08	2836	0.073343	0.836621	0.664197	0.142802	0.560215
42_45	5/1/19	28	340	368	0.09	80	950	1030	0.11	0.1	2970	0.064826	0.829599	0.656161	0.141075	0.708845
42_46	6/1/19	19	190	209	0.09	43	630	673	0.11	0.1	3001	0.063001	0.827983	0.654353	0.140686	0.710803
42_47	8/15/19	22	280	302	0.1	59	820	879	0.12	0.11	3076	0.058795	0.824086	0.650056	0.139762	0.787052
42_48	10/31/19	9.4	120	129.4	0.09	25	350	375	0.09	0.09	3153	0.054769	0.820104	0.645749	0.138836	0.648247
42_49	11/21/19	12	200	212	0.09	45	630	675	0.11	0.1	3174	0.053719	0.819022	0.644592	0.138587	0.721567
42_50	12/12/19	13	140	153	0.07	27	390	417	0.07	0.07	3195	0.05269	0.817941	0.643443	0.13834	0.505999
42_51	8/18/20	8.4	150	150	0.07	42	740	782	0.09	0.08	3445	0.041851	0.805179	0.630283	0.135511	0.590358
42_52	10/7/20	6.5	170	176.5	0.07	19	460	479	0.08	0.075	3495	0.039967	0.802651	0.627758	0.134968	0.555687
42_53	11/18/20	9	190	199	0.08	22	380	402	0.08	0.08	3537	0.03845	0.800533	0.625662	0.134517	0.594719
42_54	12/2/20	7.2	100	100	0.08	20	470	490	0.1	0.09	3551	0.037958	0.799829	0.624969	0.134368	0.669801
42_55	5/22/21	7.3	7		0.07	24	580	604	0.09	0.08	3722	0.032425	0.791272	0.616685	0.132587	0.603376
42_56	6/8/21	7.3	7.1		0.08	7.7	160	160	0.1	0.09	3739	0.031921	0.790426	0.61588	0.132414	0.679685
42_57	8/9/21	7.6	9.1		0.08	19	350	369	0.09	0.085	3801	0.030149	0.78735	0.61297	0.131788	0.644973
42_58	10/24/21	6.7	8.5		0.08	31	810	841	0.08	0.08	3877	0.028111	0.783595	0.609456	0.131033	0.610533
42_59	11/19/21	8.5	8.8		0.08	32	800	832	0.1	0.09	3903	0.027445	0.782314	0.608267	0.130777	0.688192
42_60	12/19/21	9.2	100	100	0.08	16	580	596	0.08	0.08	3933	0.026697	0.780839	0.606904	0.130484	0.613101
42_61	5/12/22	6.6	8.9		0.08	9.3	270	270	0.09	0.085	4077	0.02338	0.773799	0.600473	0.129102	0.658396
42_62	6/11/22	7.6	44	44	0.08	9.5	330	330	0.09	0.085	4107	0.022743	0.77234	0.599156	0.128819	0.659843
42_63	8/5/22	7.1	37	37	0.08	19	630	649	0.08	0.08	4162	0.02162	0.769673	0.596761	0.128304	0.623521
42_64	10/10/22	7.7	8.1		0.07	20	480	500	0.08	0.075	4228	0.020344	0.766484	0.59392	0.127693	0.587347
42_65	11/7/22	8.9	13	13	0.08	18	690	708	0.1	0.09	4256	0.019826	0.765135	0.592724	0.127436	0.706238
42_66	12/13/22	8.3	160	160	0.09	21	480	501	0.09	0.09	4292	0.019179	0.763405	0.591196	0.127107	0.708064
42_67	5/11/23	8.8	100	100	0.08	9.2	240	240	0.08	0.08	4441	0.016719	0.756284	0.584971	0.125769	0.636088
42_68	6/15/23	6.8	68	68	0.08	8.6	400	400	0.09	0.085	4476	0.016189	0.75462	0.583531	0.125459	0.677512
42_69	8/30/23	9.3	120	120	0.07	9.3	230	230	0.09	0.08	4552	0.015094	0.751022	0.580431	0.124793	0.641064
42_70	10/26/23	8.3	36	36	0.08	9.2	410	410	0.09	0.085	4609	0.014322	0.748334	0.57813	0.124298	0.683841
42_71	11/16/23	8.9	68	68	0.08	8.1	480	488.1	0.09	0.085	4630	0.014048	0.747346	0.577287	0.124117	0.684839
42_72	12/7/23	9.3	83	83	0.08	13	530	543	0.09	0.085	4651	0.013779	0.746359	0.576447	0.123936	0.685837
42_73	5/2/24	9.2	120	120	0.07	15	620	635	0.09	0.08	4798	0.012033	0.73949	0.570637	0.122687	0.652066
42_74	6/10/24	7.9	160	160	0.07	7.2	230	230	0.08	0.075	4837	0.011609	0.737678	0.569116	0.12236	0.612946
42_75	8/15/24	5.7	110	110	0.08	5.7	430	430	0.08	0.08	4903	0.010924	0.734622	0.56656	0.12181	0.656758

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
43_1	11/21/11	80	92	172	0.2	430	560	990	0.29	0.245	252	0.792827	0.984274	1.001534	0.245376	0.998468
43_2	1/18/12	68	93	161	0.18	570	770	1340	0.27	0.225	310	0.751577	0.98069	0.985936	0.241554	0.931468
43_3	2/27/12	110	170	280	0.12	140	180	320	0.14	0.13	350	0.724386	0.978226	0.975575	0.239016	0.543897
43_4	5/23/12	12	300	450	0.25	6.6	210	320	0.24	0.245	436	0.669211	0.972948	0.954341	0.233813	1.047844
43_5	7/10/12	8.1	190	290	0.21	6.3	84	140	0.17	0.19	484	0.640264	0.970015	0.943074	0.231053	0.822322
43_6	9/5/12	8.5	330	530	0.176	13	640	1100	0.17	0.173	541	0.607511	0.966544	0.930209	0.227901	0.759101
43_7	11/6/12	4.5	31	49	0.19	6.5	110	180	0.14	0.165	603	0.573784	0.962782	0.916818	0.22462	0.734573
43_8	1/8/13	9.7	250	460	0.23	9.7	420	780	0.23	0.23	666	0.541431	0.958974	0.90382	0.221436	1.038676
43_9	2/14/13	8.9	200	380	0.16	8.6	300	560	0.2	0.18	703	0.523287	0.956745	0.896458	0.219632	0.819552
43_10	6/5/13	150	310	460	0.188	280	570	850	0.182	0.185	814	0.472423	0.950088	0.875509	0.2145	0.862472
43_11	7/10/13	230	470	700	0.19	210	450	660	0.19	0.19	849	0.457433	0.947999	0.869238	0.212963	0.892173
43_12	8/16/13	200	450	650	0.15	300	620	920	0.12	0.135	886	0.442104	0.945795	0.862773	0.211379	0.638662
43_13	10/5/13	260	600	860	0.18	250	580	830	0.18	0.18	936	0.422202	0.942825	0.854296	0.209302	0.859999
43_14	12/5/13	210	490	700	0.19	220	540	760	0.18	0.185	997	0.399131	0.939215	0.84434	0.206863	0.89431
43_15	2/11/14	280	720	1000	0.174	260	660	920	0.134	0.154	1065	0.374895	0.935206	0.833717	0.204261	0.753939
43_16	5/21/14	140	420	560	0.15	270	760	1030	0.14	0.145	1164	0.342216	0.9294	0.819086	0.200676	0.722558
43_17	6/14/14	140	370	510	0.17	200	570	770	0.15	0.16	1188	0.334733	0.927998	0.81568	0.199842	0.800634
43_18	8/8/14	400	1100	1500	0.17	170	540	710	0.17	0.17	1243	0.318196	0.924794	0.808071	0.197977	0.858684
43_19	10/22/14	44	150	194	0.14	170	530	700	0.17	0.155	1318	0.296953	0.920441	0.798116	0.195539	0.792683
43_20	12/14/14	210	540	750	0.15	150	660	810	0.15	0.15	1371	0.282803	0.917378	0.79136	0.193883	0.773662
43_21	2/5/15	100	380	480	0.16	200	660	860	0.14	0.15	1424	0.269326	0.914325	0.784821	0.192281	0.780108
43_22	5/23/15	70	260	330	0.17	13	40	53	0.13	0.15	1531	0.244045	0.908192	0.772243	0.1892	0.792814
43_23	6/10/15	81	300	381	0.15	150	620	770	0.13	0.14	1549	0.240031	0.907164	0.770205	0.1887	0.741918
43_24	8/11/15	220	1000	1220	0.17	6	11	11	0.12	0.145	1611	0.226706	0.903633	0.763347	0.18702	0.775318
43_25	10/10/15	91	400	491	0.13	120	550	670	0.12	0.125	1671	0.214515	0.900229	0.756939	0.18545	0.674036
43_26	12/17/15	50	260	310	0.1	99	420	519	0.13	0.115	1739	0.201489	0.896387	0.749936	0.183734	0.625904
43_27	2/11/16	42	240	282	0.11	68	310	378	0.12	0.115	1795	0.191358	0.893235	0.744364	0.182369	0.630589
43_28	5/23/16	260	1300	1560	0.16	120	670	790	0.14	0.15	1897	0.174196	0.887523	0.734638	0.179986	0.833397
43_29	6/19/16	160	850	1010	0.17	100	500	600	0.13	0.15	1924	0.169917	0.886017	0.73215	0.179377	0.836229
43_30	8/21/16	150	730	880	0.14	100	590	690	0.12	0.13	1987	0.160336	0.882513	0.726479	0.177987	0.730389
43_31	10/7/16	100	680	780	0.15	84	530	614	0.14	0.145	2034	0.153542	0.879907	0.722365	0.17698	0.819304
43_32	12/6/16	93	800	893	0.15	61	450	511	0.13	0.14	2094	0.145285	0.876593	0.717252	0.175727	0.796691
43_33	2/1/17	110	640	750	0.16	40	310	350	0.13	0.145	2151	0.137853	0.873456	0.712532	0.17457	0.830611
43_34	5/4/17	70	440	510	0.16	48	420	468	0.14	0.15	2243	0.126651	0.868416	0.705178	0.172769	0.868213
43_35	6/18/17	72	540	612	0.14	69	580	649	0.13	0.135	2288	0.121508	0.865961	0.701695	0.171915	0.785271
43_36	8/3/17	88	690	778	0.14	52	420	472	0.11	0.125	2334	0.116467	0.863459	0.698206	0.17106	0.730736
43_37	10/21/17	56	420	476	0.14	39	310	349	0.11	0.125	2413	0.108292	0.859179	0.692378	0.169633	0.736886
43_38	12/14/17	31	260	291	0.13	35	370	405	0.12	0.125	2467	0.103036	0.856266	0.688508	0.168684	0.741029
43_39	2/19/18	86	700	786	0.13	64	520	584	0.11	0.12	2534	0.096869	0.852665	0.683826	0.167537	0.716258
43_40	5/4/18	53	480	533	0.13	45	450	495	0.12	0.125	2608	0.090485	0.848705	0.678802	0.166306	0.751625
43_41	6/8/18	22	280	302	0.13	42	350	392	0.11	0.12	2643	0.087614	0.846839	0.676476	0.165737	0.72404
43_42	8/22/18	27	270	297	0.12	30	370	400	0.12	0.12	2718	0.081765	0.842853	0.671599	0.164542	0.729298
43_43	10/17/18	51	550	601	0.13	30	330	360	0.11	0.12	2774	0.077654	0.83989	0.668046	0.163671	0.733177
43_44	11/14/18	41	460	501	0.13	37	420	457	0.13	0.13	2802	0.075677	0.838412	0.666297	0.163243	0.79636
43_45	12/14/18	47	580	627	0.13	48	490	538	0.11	0.12	2832	0.073614	0.836831	0.664443	0.162789	0.737153
43_46	5/1/19	33	430	463	0.13	31	360	391	0.12	0.125	2970	0.064826	0.829599	0.656161	0.160759	0.77756
43_47	6/17/19	28	410	438	0.13	28	440	468	0.12	0.125	3017	0.062079	0.82715	0.653428	0.16009	0.780812
43_48	8/16/19	28	450	478	0.14	36	520	556	0.12	0.13	3077	0.058741	0.824034	0.649999	0.15925	0.816328
43_49	10/29/19	6.9	69	69	0.12	20	330	350	0.11	0.115	3151	0.05487	0.820208	0.64586	0.158236	0.726764
43_50	11/17/19	27	330	357	0.12	28	400	428	0.11	0.115	3170	0.053918	0.819228	0.644812	0.157979	0.727945
43_51	12/18/19	31	400	431	0.12	26	320	346	0.1	0.11	3201	0.0524	0.817632	0.643116	0.157563	0.698132
43_52	8/17/20	14	320	334	0.12	9	110	110	0.1	0.11	3444	0.04189	0.80523	0.630334	0.154432	0.712288
43_53	10/9/20	16	400	416	0.1	8.8	140	140	0.1	0.1	3497	0.039894	0.80255	0.627658	0.153776	0.650296
43_54	11/16/20	15	320	335	0.1	7.7	80	80	0.1	0.1	3535	0.038521	0.800634	0.625761	0.153312	0.652267
43_55	12/10/20	13	350	363	0.12	8	120	120	0.11	0.115	3559	0.037679	0.799426	0.624573	0.15302	0.751534
43_56	5/21/21	6.7	44	44	0.09	9	88	88	0.09	0.09	3721	0.032455	0.791322	0.616733	0.1511	0.595634
43_57	6/7/21	7.2	82	82	0.11	7.2	140	140	0.11	0.11	3738	0.031951	0.790476	0.615927	0.150902	0.728949
43_58	8/29/21	8.7	120	120	0.1	8.6	52	52	0.1	0.1	3821	0.029599	0.78636	0.612039	0.14995	0.666891
43_59	10/21/21	8.4	100	100	0.12	14	380	394	0.1	0.11	3874	0.028188	0.783743	0.609594	0.14935	0.736523
43_60	11/16/21	8.3	73	81.3	0.1	14	290	304	0.11	0.105	3900	0.027521	0.782462	0.608404	0.149059	0.704419
43_61	12/24/21	8.6	42	42	0.1	14	420	434	0.12	0.11	3938	0.026574	0.780594	0.606677	0.148636	0.740063
43_62	5/12/22	9.6	44	44	0.09	16	480	496	0.08	0.085	4077	0.02338	0.773799	0.600473	0.147116	0.577776
43_63	6/9/22	5.5	26	26	0.09	27	700	727	0.08	0.085	4105	0.022785	0.772437	0.599244	0.146815	0.578961
43_64	8/4/22	9.2	230	230	0.1	25	660	685	0.09	0.095	4161	0.021639	0.769721	0.596805	0.146217	0.649719
43_65	10/7/22	8.6	110	110	0.09	15	660	675	0.09	0.09	4225	0.0204	0.766629	0.594048	0.145542	0.618379
43_66	11/5/22	6.7	79	79	0.09	39	1000	1039	0.08	0.085	4254	0.019863	0.765232	0.59281	0.145238	0.585245
43_67	12/9/22	7.2	160	160	0.1	35	920	955	0.08	0.09	4288	0.01925	0.763597	0.591366	0.144885	0.621184
43_68	5/26/23	8.6	28	28	0.09	12	460	472	0.08	0.085	4456	0.01649	0.75557	0.584353	0.143166	0.593715
43_69	6/26/23	11	740	751	0.08	7.8	110	110	0.08	0.08	4487	0.016026	0.754098	0.58308	0.142854	0.56001
43_70	8/21/23	8.8	220	220	0.09	8.6	220	220	0.08	0.085	4543	0.01522	0.751447	0.580796	0.142295	0.597351
43_71	10/23/23	7.4	130	130	0.08	7.8	86	86	0.07	0.075	4606	0.014362	0.748475	0.57825	0.141671	0.529394
43_72	11/22/23	6.6	26	26	0.1	8.2	300	300	0.09	0.095	4636	0.01397	0.747064	0.577047	0.141376	0.671965
43_73	12/20/23	9.2	340	340	0.09	9.2	160	160	0.08	0.085	4664	0.013615	0.745749	0.575928	0.141102	0.602399
43_74	5/24/24	8.6	34	34	0.09	6.2	10	10	0.08	0.085	4820	0.011792	0.738468	0.569778	0.139596	0.608902
43_75	6/18/24	6.1	69	69	0.07	9.3	440	440	0.07	0.07	4845	0.011524	0.737307	0.568805	0.139357	0.502306
43_76	8/17/24	8.5	490	490	0.09	8.9	160	160	0.07	0.08	4905	0.010904	0.73453	0.566483	0.138788	0.576418

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
44_1	11/24/11	1900	2400	4300	0.42	1800	2300	4100	0.41	0.415	255	0.790639	0.984088	1.00071	0.415295	0.99929
44_2	1/6/12	1200	1500	2700	0.4	2700	3500	6200	0.42	0.41	298	0.759932	0.98143	0.989106	0.410479	0.998833
44_3	2/27/12	780	1000	1780	0.37	960	1300	2260	0.38	0.375	350	0.724386	0.978226	0.975575	0.404864	0.926237
44_4	5/23/12	15	1200	1800	0.33	17	1100	1600	0.31	0.32	436	0.669211	0.972948	0.954341	0.396051	0.807976
44_5	7/10/12	14	990	1500	0.3	15	690	1100	0.32	0.31	484	0.640264	0.970015	0.943074	0.391376	0.792078
44_6	9/5/12	16	1000	1700	0.282	15	810	1300	0.348	0.315	541	0.607511	0.966544	0.930209	0.386037	0.815985
44_7	11/15/12	8.3	340	560	0.31	21	2100	3600	0.29	0.3	612	0.569047	0.962237	0.914924	0.379694	0.790111
44_8	1/8/13	13	580	1000	0.31	14	770	1400	0.34	0.325	666	0.541431	0.958974	0.90382	0.375085	0.86647
44_9	2/11/13	13	640	1100	0.26	14	720	1300	0.3	0.28	700	0.524735	0.956925	0.897048	0.372275	0.752132
44_10	6/1/13	380	720	1100	0.238	1200	2400	3600	0.296	0.267	810	0.474167	0.950327	0.876236	0.363638	0.734247
44_11	7/10/13	540	1300	1840	0.23	1100	2400	3500	0.29	0.26	849	0.457433	0.947999	0.869238	0.360734	0.720753
44_12	8/25/13	470	970	1440	0.24	880	1900	2780	0.26	0.25	895	0.438454	0.94526	0.861225	0.357408	0.69948
44_13	10/6/13	620	1400	2020	0.24	760	1700	2460	0.26	0.25	937	0.421813	0.942766	0.854129	0.354464	0.705291
44_14	12/7/13	530	1300	1830	0.25	960	2300	3260	0.25	0.25	999	0.398396	0.939096	0.844021	0.350269	0.713738
44_15	2/5/14	330	820	1150	0.22	580	1400	1980	0.248	0.234	1059	0.376973	0.935559	0.834635	0.346373	0.675571
44_16	5/20/14	300	870	1170	0.25	1500	4100	5600	0.22	0.235	1163	0.342532	0.929459	0.819229	0.33998	0.691217
44_17	6/14/14	340	1000	1340	0.2	2000	5700	7700	0.17	0.185	1188	0.334733	0.927998	0.81568	0.338507	0.546517
44_18	8/5/14	370	1300	1670	0.23	3700	11000	14700	0.21	0.22	1240	0.319076	0.924968	0.808479	0.335519	0.655701
44_19	10/19/14	330	1100	1430	0.21	4600	14000	18600	0.17	0.19	1315	0.297775	0.920615	0.798506	0.33138	0.57336
44_20	12/15/14	340	1100	1440	0.21	990	3200	4190	0.22	0.215	1372	0.282542	0.91732	0.791234	0.328362	0.654765
44_21	2/6/15	300	1100	1400	0.2	1800	5900	7700	0.2	0.2	1425	0.269078	0.914267	0.784699	0.32565	0.614156
44_22	5/23/15	230	960	1190	0.18	1800	6600	8400	0.21	0.195	1531	0.244045	0.908192	0.772243	0.320481	0.608461
44_23	6/10/15	310	1200	1510	0.17	870	2900	3770	0.2	0.185	1549	0.240031	0.907164	0.770205	0.319635	0.578785
44_24	8/7/15	250	870	1120	0.16	560	2300	2860	0.17	0.165	1607	0.227543	0.90386	0.763782	0.316969	0.520555
44_25	10/9/15	330	1500	1830	0.16	540	2300	2840	0.21	0.185	1670	0.214713	0.900286	0.757044	0.314173	0.588847
44_26	12/17/15	200	890	1090	0.16	570	2500	3070	0.19	0.175	1739	0.201489	0.896387	0.749936	0.311223	0.562297
44_27	2/11/16	280	1200	1480	0.16	590	2800	3390	0.18	0.17	1795	0.191358	0.893235	0.744364	0.308911	0.550321
44_28	5/11/16	310	1700	2010	0.14	1100	5900	7000	0.18	0.16	1885	0.176133	0.888193	0.735755	0.305338	0.524009
44_29	6/18/16	1300	6400	7700	0.17	230	1200	1430	0.17	0.17	1923	0.170073	0.886072	0.732242	0.30388	0.559431
44_30	8/26/16	240	1400	1640	0.14	540	3200	3740	0.16	0.15	1992	0.159599	0.882235	0.726037	0.301305	0.497834
44_31	10/6/16	220	1300	1520	0.16	520	3200	3720	0.19	0.175	2033	0.153683	0.879963	0.722452	0.299818	0.583688
44_32	12/18/16	150	1100	1250	0.16	270	1900	2170	0.17	0.165	2106	0.143688	0.875931	0.716248	0.297243	0.555102
44_33	2/13/17	160	920	1080	0.16	390	2500	2890	0.17	0.165	2163	0.136338	0.872797	0.711555	0.295295	0.558763
44_34	5/4/17	160	1100	1260	0.15	340	2500	2840	0.17	0.16	2243	0.126651	0.868416	0.705178	0.292649	0.54673
44_35	6/21/17	150	1100	1250	0.15	1100	8400	9500	0.15	0.15	2291	0.121173	0.865798	0.701465	0.291108	0.515273
44_36	8/3/17	150	1100	1250	0.13	1100	8000	9100	0.15	0.14	2334	0.116467	0.863459	0.698206	0.289755	0.483166
44_37	10/28/17	140	1100	1240	0.13	220	1800	2020	0.15	0.14	2420	0.107595	0.858801	0.691871	0.287127	0.48759
44_38	12/10/17	95	730	825	0.12	220	1800	2020	0.15	0.135	2463	0.103417	0.856481	0.688791	0.285848	0.472278
44_39	2/5/18	140	1100	1240	0.11	190	1800	1990	0.15	0.13	2520	0.098126	0.853416	0.684793	0.284189	0.457442
44_40	5/5/18	96	790	886	0.13	650	5900	6550	0.15	0.14	2609	0.090402	0.848652	0.678735	0.281675	0.497027
44_41	6/18/18	100	1100	1200	0.12	540	5400	5940	0.14	0.13	2653	0.086811	0.846306	0.675818	0.280464	0.463517
44_42	8/1/18	76	880	956	0.15	470	4900	5370	0.15	0.15	2697	0.083362	0.843967	0.672951	0.279274	0.537106
44_43	10/17/18	66	860	926	0.13	560	6100	6660	0.16	0.145	2774	0.077654	0.83989	0.668046	0.277239	0.523014
44_44	11/13/18	81	920	1001	0.13	500	5600	6100	0.15	0.14	2801	0.075746	0.838465	0.666359	0.276539	0.506257
44_45	12/11/18	84	930	1014	0.13	540	6400	6940	0.16	0.145	2829	0.073817	0.836989	0.664627	0.27582	0.525704
44_46	5/2/19	83	980	1063	0.12	420	5100	5520	0.14	0.13	2971	0.064766	0.829547	0.656102	0.272282	0.477446
44_47	6/19/19	74	860	934	0.12	460	5600	6060	0.13	0.125	3019	0.061965	0.827046	0.653312	0.271125	0.461043
44_48	8/15/19	93	1100	1193	0.13	340	4900	5240	0.14	0.135	3076	0.058795	0.824086	0.650056	0.269773	0.500421
44_49	10/30/19	27	380	407	0.09	83	1300	1383	0.12	0.105	3152	0.054819	0.820156	0.645804	0.268009	0.391778
44_50	11/18/19	27	350	377	0.11	140	2100	2240	0.11	0.11	3171	0.053868	0.819176	0.644757	0.267574	0.411101
44_51	12/18/19	43	630	673	0.11	110	1800	1910	0.12	0.115	3201	0.0524	0.817632	0.643116	0.266893	0.430884
44_52	8/15/20	14	220	234	0.09	120	2300	2420	0.12	0.105	3442	0.041967	0.805331	0.630436	0.261631	0.401329
44_53	10/12/20	38	730	768	0.1	91	1800	1891	0.11	0.105	3500	0.039783	0.802398	0.627507	0.260416	0.403202
44_54	11/19/20	17	260	277	0.1	130	2700	2830	0.11	0.105	3538	0.038415	0.800483	0.625613	0.259629	0.404423
44_55	12/14/20	25	500	525	0.1	90	1700	1790	0.11	0.105	3563	0.03754	0.799225	0.624376	0.259116	0.405224
44_56	5/21/21	14	340	354	0.07	64	1800	1864	0.08	0.075	3721	0.032455	0.791322	0.616733	0.255944	0.293033
44_57	6/7/21	28	930	958	0.1	31	640	671	0.11	0.105	3738	0.031951	0.790476	0.615927	0.25561	0.410782
44_58	8/8/21	16	270	286	0.09	54	1000	1054	0.12	0.105	3800	0.030177	0.787399	0.613016	0.254402	0.412733
44_59	10/21/21	12	310	322	0.1	37	900	937	0.11	0.105	3874	0.028188	0.783743	0.609594	0.252981	0.41505
44_60	11/16/21	17	410	427	0.09	15	540	555	0.11	0.1	3900	0.027521	0.782462	0.608404	0.252488	0.396059
44_61	12/24/21	26	620	646	0.09	36	750	786	0.14	0.115	3938	0.026574	0.780594	0.606677	0.251771	0.456764
44_62	5/12/22	16	510	526	0.09	21	610	631	0.11	0.1	4077	0.02338	0.773799	0.600473	0.249196	0.40129
44_63	6/9/22	42	910	952	0.07	18	580	598	0.07	0.07	4105	0.022785	0.772437	0.599244	0.248686	0.281479
44_64	8/5/22	13	300	313	0.08	35	1200	1235	0.09	0.085	4162	0.02162	0.769673	0.596761	0.247656	0.343218
44_65	10/7/22	10	320	330	0.07	38	1300	1338	0.07	0.07	4225	0.0204	0.766629	0.594048	0.24653	0.283941
44_66	11/5/22	11	350	361	0.09	24	750	774	0.11	0.1	4254	0.019863	0.765232	0.59281	0.246016	0.406478
44_67	12/9/22	8.3	120	120	0.11	17	720	737	0.09	0.1	4288	0.01925	0.763597	0.591366	0.245417	0.40747
44_68	5/22/23	13	460	473	0.08	31	1800	1831	0.1	0.09	4452	0.016551	0.75576	0.584517	0.242575	0.37102
44_69	6/29/23	10	420	430	0.1	44	1900	1944	0.11	0.105	4490	0.015982	0.753956	0.582957	0.241927	0.434015
44_70	8/30/23	61	3000	3061	0.08	21	1100	1121	0.09	0.085	4552	0.015094	0.751022	0.580431	0.240879	0.352875
44_71	10/26/23	9.9	350	350	0.08	24	1500	1524	0.11	0.095	4609	0.014322	0.748334	0.57813	0.239924	0.395959
44_72	11/23/23	9.2	370	370	0.11	34	1700	1734	0.1	0.105	4637	0.013957	0.747017	0.577007	0.239458	0.438491
44_73	12/20/23	13	530	543	0.1	14	730	744	0.1	0.1	4664	0.013615	0.745749	0.575928	0.23901	0.418392
44_74	5/24/24	8	390	390	0.08	14	1100	1114	0.1	0.09	4820	0.011792	0.738468	0.569778	0.236458	0.380617
44_75	6/28/24	11	470	481	0.08	33	2100	2133	0.09	0.085	4855	0.011418	0.736844	0.568417	0.235893	0.360333
44_76	8/17/24	8.5	470	470	0.07	25	1200	1225	0.1	0.085	4905	0.010904	0.73453	0.566483	0.23509	0.361563

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
45_1	11/23/11	1400	1800	3200	0.22	410	510	920	0.2	0.21	254	0.791368	0.98415	1.000985	0.210207	0.999016
45_2	1/6/12	630	850	1480	0.24	190	280	470	0.2	0.22	298	0.759932	0.98143	0.989106	0.207712	1.059157
45_3	2/27/12	970	1200	2170	0.14	480	670	1150	0.13	0.135	350	0.724386	0.978226	0.975575	0.204871	0.658952
45_4	5/23/12	12	680	990	0.19	11	260	370	0.2	0.195	436	0.669211	0.972948	0.954341	0.200412	0.972998
45_5	7/11/12	14	930	1400	0.19	7	110	180	0.17	0.18	485	0.639674	0.969954	0.942844	0.197997	0.909104
45_6	9/5/12	7.9	270	450	0.21	12	610	960	0.166	0.188	541	0.607511	0.966544	0.930209	0.195344	0.962405
45_7	11/9/12	11	550	920	0.23	25	930	1600	0.22	0.225	606	0.572201	0.9626	0.916185	0.192399	1.169445
45_8	1/8/13	14	620	1100	0.21	7.4	190	320	0.17	0.19	666	0.541431	0.958974	0.90382	0.189802	1.001042
45_9	2/15/13	14	540	990	0.2	14	650	1100	0.16	0.18	704	0.522805	0.956685	0.896262	0.188215	0.956353
45_10	6/2/13	640	1200	1840	0.186	340	710	1050	0.154	0.17	811	0.47373	0.950267	0.876054	0.183971	0.924057
45_11	7/8/13	610	1300	1910	0.15	340	690	1030	0.14	0.145	847	0.458277	0.948118	0.869592	0.182614	0.794023
45_12	8/16/13	800	1700	2500	0.13	320	640	960	0.12	0.125	886	0.442104	0.945795	0.862773	0.181182	0.689913
45_13	10/5/13	590	1300	1890	0.16	900	1900	2800	0.16	0.16	936	0.422202	0.942825	0.854296	0.179402	0.891851
45_14	12/11/13	700	1700	2400	0.16	460	1100	1560	0.13	0.145	1003	0.396931	0.93886	0.843383	0.17711	0.818698
45_15	2/5/14	1200	2900	4100	0.158	210	530	740	0.12	0.139	1059	0.376973	0.935559	0.834635	0.175273	0.793047
45_16	5/21/14	250	650	900	0.13	170	540	710	0.15	0.14	1164	0.342216	0.9294	0.819086	0.172008	0.813916
45_17	6/14/14	240	690	930	0.14	360	1100	1460	0.12	0.13	1188	0.334733	0.927998	0.81568	0.171293	0.758935
45_18	8/6/14	200	570	770	0.13	210	610	820	0.21	0.17	1241	0.318782	0.92491	0.808343	0.169752	1.001461
45_19	10/22/14	260	990	1250	0.15	220	760	980	0.12	0.135	1318	0.296953	0.920441	0.798116	0.167604	0.805468
45_20	12/14/14	160	490	650	0.13	240	890	1130	0.12	0.125	1371	0.282803	0.917378	0.79136	0.166186	0.752171
45_21	2/5/15	230	730	960	0.14	470	1500	1970	0.13	0.135	1424	0.269326	0.914325	0.784821	0.164812	0.819113
45_22	5/23/15	260	890	1150	0.12	59	230	289	0.12	0.12	1531	0.244045	0.908192	0.772243	0.162171	0.739959
45_23	6/10/15	420	1500	1920	0.11	230	850	1080	0.11	0.11	1549	0.240031	0.907164	0.770205	0.161743	0.680091
45_24	8/11/15	200	720	920	0.1	150	600	750	0.1	0.1	1611	0.226706	0.903633	0.763347	0.160303	0.623819
45_25	10/10/15	290	1200	1490	0.11	160	800	960	0.1	0.105	1671	0.214515	0.900229	0.756939	0.158957	0.660555
45_26	12/17/15	210	820	1030	0.11	290	1300	1590	0.09	0.1	1739	0.201489	0.896387	0.749936	0.157487	0.634975
45_27	2/14/16	110	540	650	0.12	97	410	507	0.1	0.11	1798	0.19083	0.893067	0.74407	0.156255	0.703979
45_28	5/10/16	150	710	860	0.1	110	540	650	0.1	0.1	1884	0.176295	0.888249	0.735848	0.154528	0.647131
45_29	6/14/16	200	1000	1200	0.11	93	470	563	0.11	0.11	1919	0.170701	0.886295	0.732608	0.153848	0.714993
45_30	8/21/16	210	1200	1410	0.11	440	2400	2840	0.09	0.1	1987	0.160336	0.882513	0.726479	0.152561	0.655477
45_31	10/6/16	150	880	1030	0.12	140	860	1000	0.09	0.105	2033	0.153683	0.879963	0.722452	0.151715	0.692088
45_32	12/21/16	140	810	950	0.12	180	970	1150	0.12	0.12	2109	0.143292	0.875766	0.715997	0.150359	0.798087
45_33	2/20/17	92	700	792	0.12	120	710	830	0.1	0.11	2170	0.135461	0.872412	0.710987	0.149307	0.736736
45_34	5/3/17	180	1300	1480	0.12	110	890	1000	0.11	0.115	2242	0.126768	0.86847	0.705257	0.148104	0.776482
45_35	6/3/17	160	1300	1460	0.11	150	970	1120	0.11	0.11	2273	0.123199	0.866779	0.702848	0.147598	0.745267
45_36	8/1/17	130	850	980	0.11	100	710	810	0.09	0.1	2332	0.116681	0.863568	0.698356	0.146655	0.681873
45_37	10/18/17	90	840	930	0.1	55	460	515	0.1	0.1	2410	0.108591	0.859341	0.692596	0.145445	0.687545
45_38	12/14/17	160	1300	1460	0.11	52	370	422	0.08	0.095	2467	0.103036	0.856266	0.688508	0.144587	0.657046
45_39	2/19/18	130	1200	1330	0.1	44	400	444	0.07	0.085	2534	0.096869	0.852665	0.683826	0.143603	0.591908
45_40	5/2/18	60	640	700	0.13	46	450	496	0.11	0.12	2606	0.090652	0.848812	0.678935	0.142576	0.841654
45_41	6/8/18	110	1200	1310	0.12	85	930	1015	0.08	0.1	2643	0.087614	0.846839	0.676476	0.14206	0.703928
45_42	8/16/18	51	520	571	0.1	60	540	600	0.08	0.09	2712	0.082218	0.843172	0.671984	0.141117	0.63777
45_43	10/15/18	92	910	1002	0.1	64	730	794	0.08	0.09	2772	0.077797	0.839995	0.668172	0.140316	0.641409
45_44	11/14/18	47	580	627	0.1	44	450	494	0.1	0.1	2802	0.075677	0.838412	0.666297	0.139922	0.714682
45_45	12/16/18	67	820	887	0.1	48	540	588	0.1	0.1	2834	0.073478	0.836726	0.66432	0.139507	0.716809
45_46	5/1/19	67	840	907	0.1	65	800	865	0.08	0.09	2970	0.064826	0.829599	0.656161	0.137794	0.65315
45_47	6/17/19	59	670	729	0.11	32	420	452	0.09	0.1	3017	0.062079	0.82715	0.653428	0.13722	0.728758
45_48	8/15/19	67	940	1007	0.11	32	530	562	0.08	0.095	3076	0.058795	0.824086	0.650056	0.136512	0.695911
45_49	10/16/19	82	1000	1082	0.08	51	670	721	0.08	0.08	3138	0.055531	0.820878	0.64658	0.135782	0.589181
45_50	11/18/19	39	580	619	0.1	21	320	341	0.09	0.095	3171	0.053868	0.819176	0.644757	0.135399	0.70163
45_51	12/17/19	40	660	700	0.11	19	300	319	0.08	0.095	3200	0.052448	0.817683	0.64317	0.135066	0.703361
45_52	8/15/20	45	730	775	0.08	13	240	253	0.1	0.09	3442	0.041967	0.805331	0.630436	0.132392	0.679802
45_53	10/7/20	29	630	659	0.08	13	270	283	0.07	0.075	3495	0.039967	0.802651	0.627758	0.131829	0.568918
45_54	11/18/20	22	470	492	0.09	36	540	576	0.08	0.085	3537	0.03845	0.800533	0.625662	0.131389	0.646934
45_55	12/13/20	33	650	683	0.09	14	280	294	0.08	0.085	3562	0.037575	0.799275	0.624425	0.131129	0.648215
45_56	5/21/21	29	870	899	0.08	18	450	468	0.07	0.075	3721	0.032455	0.791322	0.616733	0.129514	0.579088
45_57	6/7/21	21	590	611	0.09	8	130	138	0.08	0.085	3738	0.031951	0.790476	0.615927	0.129345	0.657158
45_58	8/29/21	25	660	685	0.09	20	410	430	0.07	0.08	3821	0.029599	0.78636	0.612039	0.128528	0.622431
45_59	10/21/21	29	810	839	0.09	20	440	460	0.08	0.085	3874	0.028188	0.783743	0.609594	0.128015	0.663986
45_60	11/16/21	13	290	303	0.09	24	790	814	0.08	0.085	3900	0.027521	0.782462	0.608404	0.127765	0.665285
45_61	12/24/21	16	380	396	0.09	14	350	364	0.07	0.08	3938	0.026574	0.780594	0.606677	0.127402	0.627933
45_62	5/12/22	19	540	559	0.09	8.8	260	268.8	0.08	0.085	4077	0.02338	0.773799	0.600473	0.126099	0.674072
45_63	6/9/22	7.2	160	160	0.08	8.7	180	180	0.07	0.075	4105	0.022785	0.772437	0.599244	0.125841	0.595989
45_64	8/4/22	26	910	936	0.08	25	640	665	0.08	0.08	4161	0.021639	0.769721	0.596805	0.125329	0.63832
45_65	10/7/22	24	830	854	0.08	20	730	750	0.08	0.08	4225	0.0204	0.766629	0.594048	0.12475	0.641282
45_66	11/5/22	19	780	799	0.09	9.5	320	320	0.07	0.08	4254	0.019863	0.765232	0.59281	0.12449	0.642622
45_67	12/9/22	13	720	733	0.09	9.7	320	320	0.08	0.085	4288	0.01925	0.763597	0.591366	0.124187	0.684453
45_68	5/26/23	12	770	782	0.1	14	720	734	0.07	0.085	4456	0.01649	0.75557	0.584353	0.122714	0.692667
45_69	6/26/23	14	700	714	0.09	13	790	803	0.07	0.08	4487	0.016026	0.754098	0.58308	0.122447	0.653345
45_70	8/21/23	11	530	541	0.08	9.5	460	460	0.08	0.08	4543	0.01522	0.751447	0.580796	0.121967	0.655914
45_71	10/23/23	21	810	831	0.07	14	880	894	0.07	0.07	4606	0.014362	0.748475	0.57825	0.121433	0.576452
45_72	11/22/23	18	750	768	0.09	9.9	300	300	0.08	0.085	4636	0.01397	0.747064	0.577047	0.12118	0.701437
45_73	12/20/23	9.4	630	639.4	0.09	16	690	706	0.08	0.085	4664	0.013615	0.745749	0.575928	0.120945	0.702799
45_74	5/28/24	9.6	570	579.6	0.08	9.3	440	440	0.08	0.08	4824	0.011749	0.738282	0.569622	0.119621	0.668781
45_75	6/18/24	7.6	450	450	0.08	8.1	350	350	0.07	0.075	4845	0.011524	0.737307	0.568805	0.119449	0.627883
45_76	8/17/24	9.3	350	359.3	0.09	8.4	440	448.4	0.07	0.08	4905	0.010904	0.73453	0.566483	0.118961	0.672487

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
46_1	11/23/11	440	480	920	0.21	650	850	1500	0.22	0.215	254	0.791368	0.98415	1.000985	0.215212	0.999016
46_2	1/6/12	400	520	920	0.21	400	550	950	0.22	0.215	298	0.759932	0.98143	0.989106	0.212658	1.011014
46_3	2/27/12	890	1100	1990	0.12	400	610	1010	0.13	0.125	350	0.724386	0.978226	0.975575	0.209749	0.595951
46_4	5/23/12	6.6	170	250	0.15	11	340	500	0.19	0.17	436	0.669211	0.972948	0.954341	0.205183	0.828528
46_5	7/11/12	8.1	140	220	0.19	8.2	220	340	0.19	0.19	485	0.639674	0.969954	0.942844	0.202711	0.937293
46_6	9/5/12	6.9	240	410	0.154	11	420	680	0.216	0.185	541	0.607511	0.966544	0.930209	0.199995	0.925024
46_7	11/15/12	8	270	490	0.17	9.7	340	550	0.21	0.19	612	0.569047	0.962237	0.914924	0.196709	0.965895
46_8	12/19/12	7.5	210	380	0.18	11	500	890	0.21	0.195	646	0.551499	0.960181	0.907882	0.195195	0.999003
46_9	1/21/13	8.7	300	500	0.18	11	290	560	0.18	0.18	679	0.534986	0.95819	0.901211	0.19376	0.928983
46_10	6/2/13	130	290	420	0.142	330	710	1040	0.162	0.152	811	0.47373	0.950267	0.876054	0.188352	0.807001
46_11	7/19/13	210	410	620	0.15	360	750	1110	0.15	0.15	858	0.453656	0.947462	0.86765	0.186545	0.804097
46_12	8/16/13	230	550	780	0.11	230	510	740	0.13	0.12	886	0.442104	0.945795	0.862773	0.185496	0.646914
46_13	10/9/13	120	270	390	0.12	170	370	540	0.13	0.125	940	0.420649	0.942588	0.85363	0.18353	0.681086
46_14	12/7/13	250	550	800	0.12	230	520	750	0.13	0.125	999	0.398396	0.939096	0.844021	0.181464	0.68884
46_15	2/5/14	230	510	740	0.116	120	360	480	0.136	0.126	1059	0.376973	0.935559	0.834635	0.179446	0.702159
46_16	5/20/14	390	970	1360	0.12	260	680	940	0.18	0.15	1163	0.342532	0.929459	0.819229	0.176134	0.851623
46_17	6/14/14	230	630	860	0.13	430	1300	1730	0.13	0.13	1188	0.334733	0.927998	0.81568	0.175371	0.741285
46_18	8/8/14	350	1000	1350	0.13	260	720	980	0.15	0.14	1243	0.318196	0.924794	0.808071	0.173735	0.805824
46_19	10/21/14	420	1400	1820	0.12	200	660	860	0.12	0.12	1317	0.297227	0.920499	0.798246	0.171623	0.699207
46_20	12/15/14	460	1500	1960	0.11	260	880	1140	0.13	0.12	1372	0.282542	0.91732	0.791234	0.170115	0.705404
46_21	2/5/15	170	540	710	0.11	160	550	710	0.12	0.115	1424	0.269326	0.914325	0.784821	0.168736	0.681536
46_22	5/22/15	110	430	540	0.1	140	580	720	0.12	0.11	1530	0.24427	0.908249	0.772357	0.166057	0.662424
46_23	6/10/15	170	650	820	0.11	120	420	540	0.11	0.11	1549	0.240031	0.907164	0.770205	0.165594	0.664275
46_24	8/11/15	100	430	530	0.08	120	530	650	0.09	0.085	1611	0.226706	0.903633	0.763347	0.16412	0.517915
46_25	10/10/15	150	640	790	0.11	240	1000	1240	0.1	0.105	1671	0.214515	0.900229	0.756939	0.162742	0.645193
46_26	12/17/15	100	550	650	0.1	91	430	521	0.1	0.1	1739	0.201489	0.896387	0.749936	0.161236	0.620208
46_27	2/11/16	89	520	609	0.1	110	450	560	0.1	0.1	1795	0.191358	0.893235	0.744364	0.160038	0.624851
46_28	5/10/16	70	400	470	0.09	96	480	576	0.11	0.1	1884	0.176295	0.888249	0.735848	0.158207	0.632082
46_29	6/19/16	90	370	460	0.09	68	350	418	0.11	0.1	1924	0.169917	0.886017	0.73215	0.157412	0.635274
46_30	8/20/16	81	620	701	0.1	150	800	950	0.1	0.1	1986	0.160484	0.882568	0.726568	0.156212	0.640155
46_31	10/6/16	62	340	402	0.1	84	470	554	0.11	0.105	2033	0.153683	0.879963	0.722452	0.155327	0.675993
46_32	12/6/16	39	270	309	0.1	58	370	428	0.1	0.1	2094	0.145285	0.876593	0.717252	0.154209	0.64847
46_33	2/20/17	61	370	431	0.11	59	400	459	0.11	0.11	2170	0.135461	0.872412	0.710987	0.152862	0.719602
46_34	5/4/17	57	370	427	0.1	53	430	483	0.1	0.1	2243	0.126651	0.868416	0.705178	0.151613	0.659572
46_35	6/4/17	66	520	586	0.1	33	240	273	0.11	0.105	2274	0.123085	0.866724	0.702771	0.151096	0.694924
46_36	8/3/17	79	530	609	0.09	66	440	506	0.11	0.1	2334	0.116467	0.863459	0.698206	0.150114	0.666159
46_37	10/16/17	31	290	321	0.1	38	290	328	0.1	0.1	2408	0.108792	0.85945	0.692741	0.148939	0.671414
46_38	12/20/17	17	170	187	0.08	23	150	173	0.1	0.09	2473	0.102468	0.855943	0.688083	0.147938	0.608364
46_39	2/20/18	31	310	341	0.09	22	210	232	0.09	0.09	2535	0.09678	0.852611	0.683757	0.147008	0.612213
46_40	5/2/18	33	280	313	0.1	22	220	242	0.1	0.1	2606	0.090652	0.848812	0.678935	0.145971	0.685067
46_41	6/8/18	41	350	391	0.1	37	320	357	0.14	0.12	2643	0.087614	0.846839	0.676476	0.145442	0.825069
46_42	8/14/18	71	750	821	0.09	23	200	223	0.09	0.09	2710	0.08237	0.843278	0.672113	0.144504	0.622819
46_43	10/17/18	27	250	277	0.09	18	190	208	0.1	0.095	2774	0.077654	0.83989	0.668046	0.14363	0.661422
46_44	11/13/18	29	340	369	0.1	37	450	487	0.1	0.1	2801	0.075746	0.838465	0.666359	0.143267	0.697996
46_45	12/13/18	24	260	284	0.08	33	420	453	0.1	0.09	2831	0.073682	0.836884	0.664504	0.142868	0.62995
46_46	5/1/19	38	460	498	0.08	34	430	464	0.1	0.09	2970	0.064826	0.829599	0.656161	0.141075	0.637961
46_47	6/19/19	46	560	606	0.1	17	260	277	0.1	0.1	3019	0.061965	0.827046	0.653312	0.140462	0.711936
46_48	8/16/19	14	190	204	0.1	35	440	475	0.12	0.11	3077	0.058741	0.824034	0.649999	0.13975	0.787121
46_49	10/30/19	27	340	367	0.08	22	270	292	0.09	0.085	3152	0.054819	0.820156	0.645804	0.138848	0.61218
46_50	11/21/19	28	450	478	0.08	11	160	171	0.09	0.085	3174	0.053719	0.819022	0.644592	0.138587	0.613332
46_51	12/20/19	18	230	248	0.08	21	220	241	0.09	0.085	3203	0.052303	0.817529	0.643007	0.138246	0.614844
46_52	8/17/20	16	270	286	0.06	19	280	299	0.07	0.065	3444	0.04189	0.80523	0.630334	0.135522	0.479628
46_53	10/9/20	27	530	557	0.07	12	240	252	0.08	0.075	3497	0.039894	0.80255	0.627658	0.134946	0.555776
46_54	11/24/20	13	200	213	0.07	5.9	120	125.9	0.08	0.075	3543	0.038238	0.800231	0.625365	0.134453	0.557814
46_55	12/14/20	13	290	303	0.08	9.2	200	209.2	0.08	0.08	3563	0.03754	0.799225	0.624376	0.134241	0.595944
46_56	5/21/21	17	390	407	0.08	15	390	405	0.07	0.075	3721	0.032455	0.791322	0.616733	0.132598	0.565621
46_57	6/7/21	12	220	232	0.08	13	290	303	0.09	0.085	3738	0.031951	0.790476	0.615927	0.132424	0.641876
46_58	8/29/21	8.8	86	86	0.07	18	360	378	0.07	0.07	3821	0.029599	0.78636	0.612039	0.131588	0.531962
46_59	10/21/21	7.6	100	100	0.07	26	760	786	0.08	0.075	3874	0.028188	0.783743	0.609594	0.131063	0.572245
46_60	11/16/21	8.3	190	190	0.06	16	480	496	0.08	0.07	3900	0.027521	0.782462	0.608404	0.130807	0.53514
46_61	12/25/21	9.2	280	280	0.08	8.5	240	240	0.08	0.08	3939	0.02655	0.780545	0.606632	0.130426	0.613375
46_62	5/12/22	7.8	8		0.07	18	520	538	0.09	0.08	4077	0.02338	0.773799	0.600473	0.129102	0.619667
46_63	6/9/22	7.2	120	120	0.06	18	650	668	0.06	0.06	4105	0.022785	0.772437	0.599244	0.128837	0.465703
46_64	8/4/22	8.6	82	82	0.07	17	500	517	0.08	0.075	4161	0.021639	0.769721	0.596805	0.128313	0.584508
46_65	10/7/22	9.4	300	300	0.07	7.9	190	190	0.08	0.075	4225	0.0204	0.766629	0.594048	0.12772	0.58722
46_66	11/5/22	7.6	150	150	0.07	14	490	504	0.06	0.065	4254	0.019863	0.765232	0.59281	0.127454	0.509988
46_67	12/9/22	6.9	170	170	0.08	14	410	424	0.07	0.075	4288	0.01925	0.763597	0.591366	0.127144	0.589884
46_68	5/26/23	9.6	260	260	0.07	7.1	150	150	0.07	0.07	4456	0.01649	0.75557	0.584353	0.125636	0.557166
46_69	6/26/23	8.4	79	79	0.06	8.5	310	310	0.08	0.07	4487	0.016026	0.754098	0.58308	0.125362	0.558382
46_70	8/21/23	8.2	19	19	0.08	8.9	240	240	0.08	0.08	4543	0.01522	0.751447	0.580796	0.124871	0.640661
46_71	10/23/23	8.3	26	26	0.06	13	490	503	0.07	0.065	4606	0.014362	0.748475	0.57825	0.124324	0.522828
46_72	11/23/23	8.4	81	81	0.07	9.4	350	350	0.07	0.07	4637	0.013957	0.747017	0.577007	0.124056	0.564259
46_73	12/20/23	9.6	59	59	0.09	7.6	280	280	0.09	0.09	4664	0.013615	0.745749	0.575928	0.123825	0.726835
46_74	5/28/24	9.6	72	72	0.08	8.1	250	250	0.08	0.08	4824	0.011749	0.738282	0.569622	0.122469	0.653228
46_75	6/28/24	7.5	84	84	0.08	8.6	300	300	0.08	0.08	4855	0.011418	0.736844	0.568417	0.12221	0.654613
46_76	8/16/24	8.4	79	79	0.06	7.8	280	280	0.07	0.065	4904	0.010914	0.734576	0.566521	0.121802	0.533653

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
47_1	11/25/11	810	1000	1810	0.23	150	190	340	0.12	0.175	256	0.789911	0.984027	1.000436	0.175076	0.999564
47_2	1/7/12	800	1100	1900	0.21	58	65	123	0.12	0.165	299	0.759232	0.981369	0.988841	0.173047	0.953497
47_3	2/28/12	590	830	1420	0.12	82	100	182	0.07	0.095	351	0.723719	0.978164	0.97532	0.170681	0.556594
47_4	5/24/12	8.6	310	440	0.17	5.1	72	110	0.086	0.128	437	0.668595	0.972887	0.954102	0.166968	0.766615
47_5	7/11/12	9.6	340	520	0.15	14	470	720	0.18	0.165	485	0.639674	0.969954	0.942844	0.164998	1.000014
47_6	9/5/12	14	700	1200	0.154	6	99	170	0.108	0.131	541	0.607511	0.966544	0.930209	0.162787	0.804735
47_7	10/19/12	11	640	1000	0.17	14	710	1200	0.14	0.155	585	0.583378	0.963872	0.920643	0.161113	0.962061
47_8	11/15/12	12	410	700	0.19	5.7	45	67	0.11	0.15	612	0.569047	0.962237	0.914924	0.160112	0.936846
47_9	1/9/13	12	370	700	0.18	8.2	390	730	0.17	0.175	667	0.540933	0.958914	0.903618	0.158133	1.106662
47_10	5/30/13	370	760	1130	0.148	250	500	750	0.138	0.143	808	0.475041	0.950447	0.8766	0.153405	0.932173
47_11	7/19/13	42	100	142	0.08	340	700	1040	0.13	0.105	858	0.453656	0.947462	0.86765	0.151839	0.691523
47_12	8/15/13	120	270	390	0.08	220	520	740	0.11	0.095	885	0.442512	0.945855	0.862945	0.151015	0.629075
47_13	10/3/13	140	340	480	0.07	230	550	780	0.09	0.08	934	0.422981	0.942944	0.854629	0.14956	0.534902
47_14	12/3/13	61	130	191	0.11	130	320	450	0.09	0.1	995	0.399867	0.939333	0.84466	0.147816	0.676519
47_15	2/5/14	210	440	650	0.116	63	150	213	0.108	0.112	1059	0.376973	0.935559	0.834635	0.146061	0.766802
47_16	5/22/14	54	170	224	0.1	38	110	148	0.09	0.095	1165	0.341901	0.929342	0.818943	0.143315	0.662875
47_17	6/15/14	67	160	227	0.09	16	44	60	0.1	0.095	1189	0.334425	0.92794	0.815539	0.142719	0.665642
47_18	8/8/14	10	30	40	0.07	29	72	101	0.09	0.08	1243	0.318196	0.924794	0.808071	0.141412	0.565721
47_19	10/19/14	88	240	328	0.07	58	140	198	0.06	0.065	1315	0.297775	0.920615	0.798506	0.139738	0.465155
47_20	12/14/14	37	130	167	0.08	55	210	265	0.07	0.075	1371	0.282803	0.917378	0.79136	0.138488	0.541563
47_21	2/6/15	14	43	57	0.07	150	540	690	0.1	0.085	1425	0.269078	0.914267	0.784699	0.137322	0.618981
47_22	5/22/15	35	140	175	0.06	19	65	84	0.07	0.065	1530	0.24427	0.908249	0.772357	0.135162	0.480903
47_23	6/13/15	35	140	175	0.06	32	130	162	0.06	0.06	1552	0.239369	0.906993	0.769867	0.134727	0.445346
47_24	8/4/15	6.6	38	44.6	0.06	6.1	40	46.1	0.06	0.06	1604	0.228173	0.904031	0.764109	0.133719	0.448702
47_25	10/10/15	22	96	118	0.08	25	150	175	0.1	0.09	1671	0.214515	0.900229	0.756939	0.132464	0.679428
47_26	12/18/15	29	130	159	0.06	27	140	167	0.06	0.06	1740	0.201304	0.896331	0.749835	0.131221	0.457243
47_27	2/14/16	17	88	105	0.07	15	76	91	0.07	0.07	1798	0.19083	0.893067	0.74407	0.130212	0.537584
47_28	5/23/16	26	140	166	0.07	33	170	203	0.06	0.065	1897	0.174196	0.887523	0.734638	0.128562	0.505594
47_29	6/18/16	39	170	209	0.07	15	67	82	0.05	0.06	1923	0.170073	0.886072	0.732242	0.128142	0.46823
47_30	8/4/16	25	140	165	0.07	22	130	152	0.09	0.08	1970	0.162867	0.883457	0.727991	0.127398	0.627951
47_31	10/14/16	28	160	188	0.07	21	170	191	0.07	0.07	2041	0.152555	0.87952	0.721761	0.126308	0.5542
47_32	12/18/16	29	140	169	0.06	24	150	174	0.07	0.065	2106	0.143688	0.875931	0.716248	0.125343	0.518576
47_33	2/16/17	28	190	218	0.08	14	120	134	0.06	0.07	2166	0.135961	0.872632	0.711311	0.124479	0.562342
47_34	5/21/17	39	260	299	0.07	30	230	260	0.08	0.075	2260	0.124683	0.867488	0.703854	0.123174	0.608893
47_35	6/18/17	26	220	246	0.06	32	190	222	0.07	0.065	2288	0.121508	0.865961	0.701695	0.122797	0.529331
47_36	8/18/17	32	240	272	0.06	30	220	250	0.05	0.055	2349	0.114868	0.862645	0.697084	0.12199	0.450858
47_37	10/21/17	44	300	344	0.08	9.3	56	56	0.08	0.08	2413	0.108292	0.859179	0.692378	0.121166	0.66025
47_38	12/17/17	15	150	165	0.06	18	100	118	0.05	0.055	2470	0.102752	0.856104	0.688295	0.120452	0.456615
47_39	2/19/18	23	200	223	0.05	12	150	162	0.06	0.055	2534	0.096869	0.852665	0.683826	0.119669	0.459599
47_40	5/4/18	13	100	113	0.07	5.9	52	52	0.06	0.065	2608	0.090485	0.848705	0.678802	0.11879	0.547183
47_41	6/17/18	24	220	244	0.06	7.3	73	80.3	0.07	0.065	2652	0.086891	0.84636	0.675884	0.11828	0.549545
47_42	8/15/18	24	210	234	0.05	8.9	120	128.9	0.06	0.055	2711	0.082294	0.843225	0.672048	0.117608	0.467853
47_43	10/14/18	15	190	205	0.07	11	140	151	0.06	0.065	2771	0.077869	0.840048	0.668235	0.116941	0.555836
47_44	11/16/18	17	200	217	0.06	14	160	174	0.07	0.065	2804	0.075537	0.838306	0.666173	0.11658	0.557556
47_45	12/16/18	16	170	186	0.07	14	150	164	0.06	0.065	2834	0.073478	0.836726	0.66432	0.116256	0.559111
47_46	5/2/19	23	240	263	0.06	13	150	163	0.06	0.06	2971	0.064766	0.829547	0.656102	0.114818	0.522567
47_47	6/16/19	12	190	202	0.06	11	140	151	0.06	0.06	3016	0.062136	0.827202	0.653485	0.11436	0.524659
47_48	8/18/19	11	170	181	0.06	14	180	194	0.07	0.065	3079	0.058632	0.82393	0.649886	0.11373	0.571529
47_49	10/16/19	10	160	170	0.06	6.6	99	99	0.06	0.06	3138	0.055531	0.820878	0.64658	0.113151	0.530263
47_50	11/14/19	9.3	130	139.3	0.07	10	160	170	0.06	0.065	3167	0.054067	0.819382	0.644977	0.112871	0.575879
47_51	12/11/19	10	170	180	0.06	16	160	176	0.06	0.06	3194	0.052739	0.817992	0.643497	0.112612	0.532803
47_52	8/23/20	6.6	130	136.6	0.05	12	180	192	0.06	0.055	3450	0.041659	0.804926	0.630029	0.110255	0.498843
47_53	10/15/20	6.5	130	136.5	0.05	10	210	220	0.05	0.05	3503	0.039674	0.802247	0.627357	0.109788	0.455425
47_54	11/23/20	8.4	130	138.4	0.06	12	190	202	0.06	0.06	3542	0.038274	0.800281	0.625414	0.109447	0.548208
47_55	12/9/20	7.9	99	99	0.05	12	270	282	0.06	0.055	3558	0.037714	0.799476	0.624623	0.109309	0.503161
47_56	5/22/21	6.9	78	78	0.05	9.3	120	120	0.05	0.05	3722	0.032425	0.791272	0.616685	0.10792	0.463306
47_57	6/7/21	8.2	180	188.2	0.06	9	45	45	0.06	0.06	3738	0.031951	0.790476	0.615927	0.107787	0.556652
47_58	8/29/21	7.8	190	190	0.05	7.7	180	180	0.06	0.055	3821	0.029599	0.78636	0.612039	0.107107	0.513506
47_59	10/20/21	9.9	160	160	0.05	7.5	110	110	0.06	0.055	3873	0.028214	0.783792	0.60964	0.106687	0.515527
47_60	11/16/21	8.6	190	190	0.05	8.9	110	110	0.06	0.055	3900	0.027521	0.782462	0.608404	0.106471	0.516574
47_61	12/24/21	8.2	190	190	0.06	7.9	110	110	0.05	0.055	3938	0.026574	0.780594	0.606677	0.106168	0.518044
47_62	5/12/22	9.5	170	170	0.05	7.8	100	100	0.06	0.055	4077	0.02338	0.773799	0.600473	0.105083	0.523397
47_63	6/9/22	8.2	170	170	0.05	6.8	74	74	0.05	0.05	4105	0.022785	0.772437	0.599244	0.104868	0.476791
47_64	8/4/22	10	180	180	0.05	7.6	79	79	0.06	0.055	4161	0.021639	0.769721	0.596805	0.104441	0.526614
47_65	10/7/22	9.1	220	220	0.05	8.9	83	83	0.05	0.05	4225	0.0204	0.766629	0.594048	0.103958	0.480961
47_66	11/7/22	7.5	190	190	0.06	8.7	45	45	0.07	0.065	4256	0.019826	0.765135	0.592724	0.103727	0.626646
47_67	12/12/22	9.6	190	190	0.05	8.4	100	100	0.06	0.055	4291	0.019197	0.763453	0.591239	0.103467	0.531572
47_68	5/24/23	8.3	180	180	0.06	8.4	84	84	0.06	0.06	4454	0.01652	0.755665	0.584435	0.102276	0.586647
47_69	6/29/23	8.6	160	160	0.06	8.8	69	69	0.05	0.055	4490	0.015982	0.753956	0.582957	0.102017	0.539124
47_70	8/30/23	7.2	98	98	0.05	9.1	200	200	0.06	0.055	4552	0.015094	0.751022	0.580431	0.101575	0.54147
47_71	10/26/23	7.3	140	140	0.06	7.7	62	62	0.06	0.06	4609	0.014322	0.748334	0.57813	0.101173	0.593045
47_72	11/23/23	9.1	150	150	0.06	8.5	120	120	0.06	0.06	4637	0.013957	0.747017	0.577007	0.100976	0.5942
47_73	12/20/23	8	190	190	0.06	9.2	120	120	0.05	0.055	4664	0.013615	0.745749	0.575928	0.100787	0.545703
47_74	5/20/24	6.6	61	61	0.06	7.4	170	170	0.06	0.06	4816	0.011836	0.738653	0.569934	0.099738	0.601573
47_75	6/28/24	7	99	99	0.06	8.1	70	70	0.05	0.055	4855	0.011418	0.736844	0.568417	0.099473	0.552914
47_76	8/16/24	8.7	140	140	0.06	9.4	110	110	0.06	0.06	4904	0.010914	0.734576	0.566521	0.099141	0.605197

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
48_1	11/26/11	430	530	960	0.15	600	810	1410	0.35	0.25	257	0.789184	0.983965	1.000162	0.25004	0.999838
48_2	1/19/12	300	430	730	0.09	780	1000	1780	0.2	0.145	311	0.750885	0.980628	0.985673	0.246418	0.588431
48_3	2/26/12	510	660	1170	0.16	530	740	1270	0.33	0.245	349	0.725054	0.978287	0.975831	0.243958	1.004273
48_4	5/22/12	5.6	78	120	0.13	15	440	650	0.24	0.185	435	0.669828	0.973009	0.95458	0.238645	0.77521
48_5	7/11/12	8.1	290	440	0.14	12	370	590	0.24	0.19	485	0.639674	0.969954	0.942844	0.235711	0.806072
48_6	9/6/12	8.1	290	430	0.126	15	840	1300	0.304	0.215	542	0.606951	0.966483	0.929988	0.232497	0.924743
48_7	10/19/12	7.6	240	430	0.17	15	580	990	0.14	0.155	585	0.583378	0.963872	0.920643	0.230161	0.673442
48_8	11/15/12	9.2	320	590	0.12	17	860	1500	0.26	0.19	612	0.569047	0.962237	0.914924	0.228731	0.83067
48_9	1/11/13	6.6	120	220	0.13	19	1100	2000	0.21	0.17	669	0.539937	0.958793	0.903216	0.225804	0.752866
48_10	2/5/13	6.7	140	250	0.12	23	1700	3000	0.22	0.17	694	0.527644	0.957286	0.898231	0.224558	0.757044
48_11	6/1/13	290	530	820	0.114	480	920	1400	0.202	0.158	810	0.474167	0.950327	0.876236	0.219059	0.721267
48_12	7/17/13	240	480	720	0.1	770	1700	2470	0.18	0.14	856	0.454493	0.947581	0.868002	0.217	0.64516
48_13	8/13/13	140	290	430	0.08	500	1100	1600	0.14	0.11	883	0.443328	0.945974	0.863291	0.215823	0.509678
48_14	10/3/13	170	370	540	0.09	780	1800	2580	0.16	0.125	934	0.422981	0.942944	0.854629	0.213657	0.585049
48_15	12/3/13	250	550	800	0.07	440	1100	1540	0.14	0.105	995	0.399867	0.939333	0.84466	0.211165	0.497241
48_16	2/4/14	100	260	360	0.102	530	1400	1930	0.182	0.142	1058	0.37732	0.935618	0.834788	0.208697	0.680412
48_17	5/22/14	140	380	520	0.09	310	820	1130	0.13	0.11	1165	0.341901	0.929342	0.818943	0.204736	0.537278
48_18	6/15/14	86	250	336	0.11	290	750	1040	0.18	0.145	1189	0.334425	0.92794	0.815539	0.203885	0.711186
48_19	8/8/14	200	500	700	0.1	380	1000	1380	0.15	0.125	1243	0.318196	0.924794	0.808071	0.202018	0.618758
48_20	10/19/14	360	1100	1460	0.1	340	1100	1440	0.14	0.12	1315	0.297775	0.920615	0.798506	0.199626	0.601123
48_21	12/14/14	300	920	1220	0.09	360	1200	1560	0.13	0.11	1371	0.282803	0.917378	0.79136	0.19784	0.556005
48_22	2/6/15	130	440	570	0.09	310	1100	1410	0.14	0.115	1425	0.269078	0.914267	0.784699	0.196175	0.586212
48_23	5/22/15	110	450	560	0.09	200	790	990	0.13	0.11	1530	0.24427	0.908249	0.772357	0.193089	0.569685
48_24	6/13/15	150	550	700	0.09	320	1300	1620	0.13	0.11	1552	0.239369	0.906993	0.769867	0.192467	0.571527
48_25	8/4/15	69	260	329	0.06	200	760	960	0.08	0.07	1604	0.228173	0.904031	0.764109	0.191027	0.36644
48_26	10/12/15	250	1000	1250	0.12	280	1200	1480	0.12	0.12	1673	0.21412	0.900116	0.75673	0.189182	0.634308
48_27	12/19/15	270	1300	1570	0.08	190	680	870	0.13	0.105	1741	0.201118	0.896274	0.749734	0.187434	0.560199
48_28	2/13/16	89	440	529	0.08	170	790	960	0.15	0.115	1797	0.191006	0.893123	0.744168	0.186042	0.61814
48_29	5/22/16	95	460	555	0.1	180	940	1120	0.13	0.115	1896	0.174357	0.887578	0.734731	0.183683	0.62608
48_30	6/18/16	120	820	940	0.08	160	910	1070	0.11	0.095	1923	0.170073	0.886072	0.732242	0.18306	0.518954
48_31	8/19/16	170	800	970	0.08	220	1400	1620	0.11	0.095	1985	0.160632	0.882624	0.726656	0.181664	0.522943
48_32	10/18/16	81	470	551	0.09	150	920	1070	0.12	0.105	2045	0.151994	0.879299	0.721417	0.180354	0.582188
48_33	12/17/16	48	260	308	0.08	170	940	1110	0.12	0.1	2105	0.143821	0.875987	0.716331	0.179083	0.558401
48_34	2/16/17	73	490	563	0.07	120	630	750	0.12	0.095	2166	0.135961	0.872632	0.711311	0.177828	0.534225
48_35	5/21/17	86	590	676	0.08	110	870	980	0.11	0.095	2260	0.124683	0.867488	0.703854	0.175963	0.539885
48_36	6/18/17	58	560	618	0.07	180	1400	1580	0.11	0.09	2288	0.121508	0.865961	0.701695	0.175424	0.513044
48_37	8/15/17	40	400	440	0.07	110	750	860	0.1	0.085	2346	0.115186	0.862808	0.697308	0.174327	0.48759
48_38	10/21/17	72	580	652	0.08	130	930	1060	0.1	0.09	2413	0.108292	0.859179	0.692378	0.173095	0.519947
48_39	12/8/17	33	290	323	0.09	84	580	664	0.11	0.1	2461	0.103607	0.856589	0.688933	0.172233	0.580608
48_40	2/4/18	34	330	364	0.07	96	780	876	0.1	0.085	2519	0.098217	0.85347	0.684863	0.171216	0.49645
48_41	5/4/18	39	400	439	0.09	82	880	962	0.12	0.105	2608	0.090485	0.848705	0.678802	0.1697	0.618738
48_42	6/17/18	100	740	840	0.11	45	450	495	0.11	0.11	2652	0.086891	0.84636	0.675884	0.168971	0.651
48_43	8/15/18	49	490	539	0.07	70	810	880	0.12	0.095	2711	0.082294	0.843225	0.672048	0.168012	0.565436
48_44	10/14/18	24	300	324	0.07	120	1100	1220	0.12	0.095	2771	0.077869	0.840048	0.668235	0.167059	0.568663
48_45	11/16/18	38	430	468	0.06	58	600	658	0.1	0.08	2804	0.075537	0.838306	0.666173	0.166543	0.480356
48_46	12/16/18	53	660	713	0.07	54	680	734	0.11	0.09	2834	0.073478	0.836726	0.66432	0.16608	0.541908
48_47	5/2/19	39	490	529	0.06	55	670	725	0.09	0.075	2971	0.064766	0.829547	0.656102	0.164026	0.457246
48_48	6/21/19	50	780	830	0.07	40	630	670	0.09	0.08	3021	0.06185	0.826942	0.653197	0.163299	0.489898
48_49	8/18/19	50	770	820	0.07	50	780	830	0.1	0.085	3079	0.058632	0.82393	0.649886	0.162471	0.523169
48_50	10/16/19	49	690	739	0.07	40	660	700	0.1	0.085	3138	0.055531	0.820878	0.64658	0.161645	0.525844
48_51	11/14/19	26	420	446	0.07	89	1300	1389	0.11	0.09	3167	0.054067	0.819382	0.644977	0.161244	0.558159
48_52	12/11/19	36	590	626	0.07	34	530	564	0.09	0.08	3194	0.052739	0.817992	0.643497	0.160874	0.497282
48_53	8/23/20	17	320	337	0.07	65	1200	1265	0.09	0.08	3450	0.041659	0.804926	0.630029	0.157507	0.507913
48_54	10/15/20	43	860	903	0.07	36	650	686	0.09	0.08	3503	0.039674	0.802247	0.627357	0.156839	0.510076
48_55	11/23/20	12	240	252	0.07	52	1000	1052	0.1	0.085	3542	0.038274	0.800281	0.625414	0.156354	0.54364
48_56	12/15/20	32	570	602	0.07	36	750	786	0.1	0.085	3564	0.037506	0.799175	0.624327	0.156082	0.544587
48_57	5/22/21	6.8	78	78	0.07	48	1100	1148	0.09	0.08	3722	0.032425	0.791272	0.616685	0.154171	0.518903
48_58	6/7/21	8.8	79	79	0.07	46	1200	1246	0.1	0.085	3738	0.031951	0.790476	0.615927	0.153982	0.552013
48_59	8/9/21	30	640	670	0.1	34	950	984	0.07	0.085	3801	0.030149	0.78735	0.61297	0.153242	0.554677
48_60	10/20/21	12	440	452	0.07	36	850	886	0.09	0.08	3873	0.028214	0.783792	0.60964	0.15241	0.5249
48_61	11/16/21	21	600	621	0.07	39	1300	1339	0.09	0.08	3900	0.027521	0.782462	0.608404	0.152101	0.525966
48_62	12/24/21	12	390	402	0.1	44	820	864	0.09	0.095	3938	0.026574	0.780594	0.606677	0.151669	0.626363
48_63	5/12/22	18	490	508	0.08	39	1100	1139	0.09	0.085	4077	0.02338	0.773799	0.600473	0.150118	0.56622
48_64	6/9/22	16	530	546	0.08	23	1000	1023	0.08	0.08	4105	0.022785	0.772437	0.599244	0.149811	0.534006
48_65	8/4/22	17	480	497	0.07	27	820	847	0.08	0.075	4161	0.021639	0.769721	0.596805	0.149201	0.502677
48_66	10/7/22	13	610	623	0.07	22	720	742	0.07	0.07	4225	0.0204	0.766629	0.594048	0.148512	0.471342
48_67	11/7/22	29	1000	1029	0.06	17	1100	1117	0.1	0.08	4256	0.019826	0.765135	0.592724	0.148181	0.53988
48_68	12/12/22	24	670	694	0.08	45	1500	1545	0.1	0.09	4291	0.019197	0.763453	0.591239	0.14781	0.608891
48_69	5/23/23	9.4	130	130	0.07	30	1200	1230	0.09	0.08	4453	0.016536	0.755713	0.584476	0.146119	0.547499
48_70	6/27/23	8.5	160	160	0.07	21	1400	1421	0.09	0.08	4488	0.016011	0.754051	0.583039	0.14576	0.548849
48_71	8/30/23	10	530	540	0.06	40	1500	1540	0.09	0.075	4552	0.015094	0.751022	0.580431	0.145108	0.516858
48_72	10/26/23	11	590	601	0.08	15	680	695	0.1	0.09	4609	0.014322	0.748334	0.57813	0.144532	0.622698
48_73	11/23/23	8.5	110	110	0.07	54	2500	2554	0.09	0.08	4637	0.013957	0.747017	0.577007	0.144252	0.554586
48_74	12/20/23	7.7	370	377.7	0.07	17	1000	1017	0.09	0.08	4664	0.013615	0.745749	0.575928	0.143982	0.555625
48_75	5/28/24	8.4	350	350	0.06	12	580	592	0.09	0.075	4824	0.011749	0.738282	0.569622	0.142406	0.526665
48_76	6/28/24	8.2	160	160	0.06	17	1100	1117	0.08	0.07	4855	0.011418	0.736844	0.568417	0.142104	0.492596
48_77	8/16/24	7	300	300	0.06	12	810	822	0.08	0.07	4904	0.010914	0.734576	0.566521	0.14163	0.494244

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
49_1	11/22/11	340	420	760	0.23					0.23	253	0.792097	0.984212	1.001259	0.23029	0.998742
49_2	1/7/12	680	900	1580	0.24					0.24	299	0.759232	0.981369	0.988841	0.227433	1.055254
49_3	2/27/12	70	97	167	0.15					0.15	350	0.724386	0.978226	0.975575	0.224382	0.668502
49_4	5/22/12	7.1	170	270	0.13					0.13	435	0.669828	0.973009	0.95458	0.219553	0.592111
49_5	7/9/12	6.1	110	170	0.13					0.13	483	0.640854	0.970076	0.943305	0.21696	0.599189
49_6	9/3/12	17	1500	2400	0.29					0.29	539	0.608631	0.966665	0.930651	0.21405	1.354825
49_7	11/9/12	38	4300	7100	0.32				0.24	0.28	606	0.572201	0.9626	0.916185	0.210723	1.328761
49_8	12/26/12	74	14000	25000	0.11					0.11	653	0.547954	0.959758	0.906453	0.208484	0.527618
49_9	2/5/13	16	1200	2200	0.23				0.15	0.19	694	0.527644	0.957286	0.898231	0.206593	0.919682
49_10	5/30/13	1800	3500	5300	0.216				0.146	0.181	808	0.475041	0.950447	0.8766	0.201618	0.897738
49_11	7/18/13	10000	22000	32000	0.24				0.13	0.185	857	0.454074	0.947522	0.867826	0.1996	0.926854
49_12	8/15/13	2400	5000	7400	0.21				0.13	0.17	885	0.442512	0.945855	0.862945	0.198477	0.856521
49_13	10/8/13	2900	6700	9600	0.2				0.11	0.155	939	0.421037	0.942647	0.853796	0.196373	0.789314
49_14	12/4/13	1700	4000	5700	0.19				0.13	0.16	996	0.399499	0.939274	0.8445	0.194235	0.823744
49_15	2/9/14	2100	5500	7600	0.178				0.092	0.135	1063	0.375586	0.935324	0.834022	0.191825	0.703766
49_16	5/19/14	7000	19000	26000	0.25				0.13	0.19	1162	0.342848	0.929517	0.819372	0.188456	1.008195
49_17	6/18/14	11000	32000	43000	0.27				0.12	0.195	1192	0.333502	0.927765	0.815117	0.187477	1.040128
49_18	8/8/14	11000	30000	41000	0.25				0.1	0.175	1243	0.318196	0.924794	0.808071	0.185856	0.941588
49_19	10/20/14	6900	21000	27900	0.19				0.12	0.155	1316	0.297501	0.920557	0.798376	0.183626	0.844105
49_20	12/10/14	8700	28000	36700	0.29				0.12	0.205	1367	0.283847	0.917609	0.791862	0.182128	1.125581
49_21	2/9/15	11000	37000	48000	0.27				0.13	0.2	1428	0.268336	0.914095	0.784336	0.180397	1.108664
49_22	5/20/15	5100	17000	22100	0.22				0.1	0.16	1528	0.24472	0.908363	0.772585	0.177695	0.900422
49_23	6/13/15	6500	23000	29500	0.21				0.09	0.15	1552	0.239369	0.906993	0.769867	0.177069	0.847125
49_24	8/6/15	5600	22000	27600	0.18				0.09	0.135	1606	0.227753	0.903917	0.763891	0.175695	0.768378
49_25	10/12/15	9600	38000	47600	0.2				0.08	0.14	1673	0.21412	0.900116	0.75673	0.174048	0.804377
49_26	12/20/15	9600	39000	48600	0.19				0.09	0.14	1742	0.200933	0.896218	0.749633	0.172416	0.811991
49_27	2/13/16	8100	37000	45100	0.19				0.1	0.145	1797	0.191006	0.893123	0.744168	0.171159	0.847168
49_28	5/7/16	8100	40000	48100	0.21				0.08	0.145	1881	0.176783	0.888416	0.736129	0.16931	0.856419
49_29	6/1/16	7400	39000	46400	0.19				0.09	0.14	1906	0.172758	0.88702	0.733805	0.168775	0.829506
49_30	8/26/16	7100	39000	46100	0.2				0.08	0.14	1992	0.159599	0.882235	0.726037	0.166988	0.838381
49_31	10/14/16	3100	18000	21100	0.21				0.09	0.15	2041	0.152555	0.87952	0.721761	0.166005	0.903587
49_32	12/17/16	5700	34000	39700	0.2				0.09	0.145	2105	0.143821	0.875987	0.716331	0.164756	0.880088
49_33	2/14/17	4500	28000	32500	0.19				0.06	0.125	2164	0.136212	0.872742	0.711473	0.163639	0.763877
49_34	5/7/17	5300	35000	40300	0.21				0.07	0.14	2246	0.126302	0.868252	0.704944	0.162137	0.863467
49_35	6/11/17	3400	23000	26400	0.19				0.07	0.13	2281	0.122294	0.866343	0.702232	0.161513	0.804887
49_36	8/5/17	4000	30000	34000	0.19				0.06	0.125	2336	0.116252	0.863351	0.698056	0.160553	0.77856
49_37	10/27/17	4000	31000	35000	0.13				0.08	0.105	2419	0.107695	0.858855	0.691944	0.159147	0.659767
49_38	12/8/17	4500	38000	42500	0.14				0.09	0.115	2461	0.103607	0.856589	0.688933	0.158455	0.72576
49_39	2/12/18	2100	19000	21100	0.13				0.09	0.11	2527	0.097496	0.85304	0.684309	0.157391	0.698896
49_40	5/19/18	3600	33000	36600	0.15				0.09	0.12	2623	0.089244	0.847905	0.677801	0.155894	0.769752
49_41	6/7/18	1400	14000	15400	0.18				0.1	0.14	2642	0.087695	0.846892	0.676542	0.155605	0.899715
49_42	8/19/18	2800	28000	30800	0.15				0.08	0.115	2715	0.081992	0.843012	0.671791	0.154512	0.744279
49_43	10/19/18	2100	23000	25100	0.16				0.09	0.125	2776	0.077511	0.839784	0.667921	0.153622	0.813687
49_44	11/18/18	1800	20000	21800	0.15				0.08	0.115	2806	0.075398	0.838201	0.666049	0.153191	0.750696
49_45	12/8/18	1300	16000	17300	0.15				0.1	0.125	2826	0.074022	0.837147	0.664812	0.152907	0.817491
49_46	5/5/19	980	12000	12980	0.17				0.1	0.135	2974	0.064587	0.82939	0.655926	0.150863	0.894851
49_47	6/21/19	1300	16000	17300	0.13				0.08	0.105	3021	0.06185	0.826942	0.653197	0.150235	0.698904
49_48	8/20/19	1200	18000	19200	0.14				0.06	0.1	3081	0.058525	0.823827	0.649773	0.149448	0.66913
49_49	10/31/19	1400	21000	22400	0.13				0.07	0.1	3153	0.054769	0.820104	0.645749	0.148522	0.6733
49_50	11/22/19	1300	20000	21300	0.15				0.1	0.125	3175	0.05367	0.81897	0.644537	0.148244	0.843207
49_51	12/15/19	1400	21000	22400	0.14				0.08	0.11	3198	0.052545	0.817786	0.643279	0.147954	0.743473
49_52	8/24/20	730	13000	13730	0.12				0.07	0.095	3451	0.04162	0.804875	0.629978	0.144895	0.655647
49_53	10/18/20	740	15000	15740	0.12				0.07	0.095	3506	0.039564	0.802096	0.627207	0.144258	0.658544
49_54	11/15/20	550	13000	13550	0.12				0.07	0.095	3534	0.038557	0.800684	0.625811	0.143937	0.660013
49_55	12/15/20	830	17000	17830	0.12				0.07	0.095	3564	0.037506	0.799175	0.624327	0.143595	0.661582
49_56	5/22/21	7.8	100	100	0.12				0.12	0.12	3722	0.032425	0.791272	0.616685	0.141838	0.846038
49_57	6/7/21	660	15000	15660	0.12				0.07	0.095	3738	0.031951	0.790476	0.615927	0.141663	0.670604
49_58	8/9/21	480	12000	12480	0.12				0.07	0.095	3801	0.030149	0.78735	0.61297	0.140983	0.67384
49_59	10/20/21	380	9700	10080	0.12				0.07	0.095	3873	0.028214	0.783792	0.60964	0.140217	0.677521
49_60	11/17/21	500	12000	12500	0.12				0.07	0.095	3901	0.027496	0.782413	0.608358	0.139922	0.678948
49_61	12/25/21	250	9000	9250	0.13				0.07	0.1	3939	0.02655	0.780545	0.606632	0.139525	0.716716
49_62	5/12/22	300	10000	10300	0.12				0.08	0.1	4077	0.02338	0.773799	0.600473	0.138109	0.724067
49_63	6/9/22	40	1100	1140	0.12				0.08	0.1	4105	0.022785	0.772437	0.599244	0.137826	0.725552
49_64	8/5/22	30	1100	1130	0.12				0.08	0.1	4162	0.02162	0.769673	0.596761	0.137255	0.72857
49_65	10/10/22	42	1200	1242	0.12				0.07	0.095	4228	0.020344	0.766484	0.59392	0.136602	0.695453
49_66	11/30/22	24	820	844	0.1				0.07	0.085	4279	0.01941	0.764029	0.591747	0.136102	0.624533
49_67	12/12/22	23	1200	1223	0.11				0.08	0.095	4291	0.019197	0.763453	0.591239	0.135985	0.698607
49_68	5/25/23	35	1600	1635	0.1				0.07	0.085	4455	0.016505	0.755618	0.584394	0.134411	0.632391
49_69	6/26/23	15	780	795	0.11				0.08	0.095	4487	0.016026	0.754098	0.58308	0.134108	0.708383
49_70	8/28/23	32	2000	2032	0.1				0.07	0.085	4550	0.015122	0.751116	0.580512	0.133518	0.63662
49_71	10/27/23	25	1500	1525	0.11				0.07	0.09	4610	0.014309	0.748287	0.578089	0.132961	0.676892
49_72	11/24/23	32	1600	1632	0.1				0.07	0.085	4638	0.013945	0.74697	0.576967	0.132702	0.640531
49_73	12/21/23	32	1600	1632	0.1				0.07	0.085	4665	0.013602	0.745703	0.575888	0.132454	0.641731
49_74	5/28/24	29	1700	1729	0.1				0.07	0.085	4824	0.011749	0.738282	0.569622	0.131013	0.64879
49_75	6/27/24	19	1100	1119	0.08				0.06	0.07	4854	0.011428	0.73689	0.568455	0.130745	0.535394
49_76	8/16/24	14	960	974	0.08				0.07	0.075	4904	0.010914	0.734576	0.566521	0.1303	0.575595

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
50_1	11/23/11	380	510	890	0.15	770	970	1740	0.14	0.145	254	0.791368	0.98415	1.000985	0.145143	0.999016
50_2	1/7/12	420	570	990	0.15	230	310	540	0.15	0.15	299	0.759232	0.981369	0.988841	0.143382	1.046157
50_3	2/27/12	240	330	570	0.14	200	250	450	0.15	0.145	350	0.724386	0.978226	0.975575	0.141458	1.025036
50_4	5/22/12	5.7	100	150	0.12	9.1	230	320	0.15	0.135	435	0.669828	0.973009	0.95458	0.138414	0.975335
50_5	7/11/12	5.8	99	150	0.13	7.3	200	310	0.13	0.13	485	0.639674	0.969954	0.942844	0.136712	0.950902
50_6	9/3/12	4.6	15	22	0.076	8.8	260	420	0.11	0.093	539	0.608631	0.966665	0.930651	0.134944	0.689173
50_7	11/16/12	5	19	34	0.07	7.7	180	320	0.11	0.09	613	0.568523	0.962176	0.914715	0.132634	0.678561
50_8	1/7/13	3.6	11	15	0.11	7.8	230	400	0.11	0.11	665	0.54193	0.959034	0.904021	0.131083	0.839162
50_9	5/30/13	220	450	670	0.114	97	220	317	0.106	0.11	808	0.475041	0.950447	0.8766	0.127107	0.865413
50_10	7/9/13	200	390	590	0.09	150	340	490	0.1	0.095	848	0.457855	0.948058	0.869415	0.126065	0.753579
50_11	8/15/13	210	460	670	0.09	110	230	340	0.11	0.1	885	0.442512	0.945855	0.862945	0.125127	0.799188
50_12	10/7/13	190	380	570	0.1	110	260	370	0.1	0.1	938	0.421425	0.942707	0.853963	0.123825	0.807594
50_13	12/4/13	190	430	620	0.09	120	280	400	0.1	0.095	996	0.399499	0.939274	0.8445	0.122453	0.775811
50_14	2/9/14	110	280	390	0.08	120	290	410	0.082	0.081	1063	0.375586	0.935324	0.834022	0.120933	0.669791
50_15	5/22/14	51	130	181	0.06	160	470	630	0.1	0.08	1165	0.341901	0.929342	0.818943	0.118747	0.673703
50_16	6/15/14	25	68	93	0.07	96	290	386	0.09	0.08	1189	0.334425	0.92794	0.815539	0.118253	0.676515
50_17	8/8/14	8.5	20	28.5	0.05	200	690	890	0.1	0.075	1243	0.318196	0.924794	0.808071	0.11717	0.640094
50_18	10/17/14	12	29	41	0.05	140	350	490	0.1	0.075	1313	0.298324	0.920731	0.798765	0.115821	0.647551
50_19	12/13/14	8.2	18	26.2	0.05	130	440	570	0.08	0.065	1370	0.283063	0.917436	0.791485	0.114765	0.566373
50_20	2/9/15	8.9	38	46.9	0.07	98	320	418	0.08	0.075	1428	0.268336	0.914095	0.784336	0.113729	0.659464
50_21	5/20/15	10	43	53	0.07	120	460	580	0.09	0.08	1528	0.24472	0.908363	0.772585	0.112025	0.714128
50_22	6/13/15	9	34	43	0.07	140	520	660	0.07	0.07	1552	0.239369	0.906993	0.769867	0.111631	0.627087
50_23	8/6/15	15	72	87	0.05	110	440	550	0.05	0.05	1606	0.227753	0.903917	0.763891	0.110764	0.45141
50_24	10/12/15	46	200	246	0.06	99	350	449	0.07	0.065	1673	0.21412	0.900116	0.75673	0.109726	0.592386
50_25	12/19/15	6.5	26	26	0.05	74	260	334	0.06	0.055	1741	0.201118	0.896274	0.749734	0.108711	0.505927
50_26	2/13/16	15	93	108	0.06	77	370	447	0.08	0.07	1797	0.191006	0.893123	0.744168	0.107904	0.648723
50_27	5/24/16	40	190	230	0.08	64	320	384	0.06	0.07	1898	0.174036	0.887467	0.734545	0.106509	0.657221
50_28	6/17/16	11	53	64	0.07	69	340	409	0.08	0.075	1922	0.17023	0.886128	0.732333	0.106188	0.706292
50_29	8/21/16	4.7	27	27	0.06	95	450	545	0.06	0.06	1987	0.160336	0.882513	0.726479	0.105339	0.569587
50_30	10/9/16	5	39	44	0.06	50	320	370	0.07	0.065	2036	0.153259	0.879797	0.722193	0.104718	0.620715
50_31	12/7/16	7.5	38	45.5	0.06	47	330	377	0.06	0.06	2095	0.145152	0.876538	0.717168	0.103989	0.576982
50_32	2/7/17	5.4	29	29	0.05	47	300	347	0.06	0.055	2157	0.137093	0.873126	0.712043	0.103246	0.532707
50_33	5/15/17	21	120	141	0.07	72	520	592	0.06	0.065	2254	0.125374	0.867815	0.70432	0.102126	0.636466
50_34	6/16/17	22	160	182	0.05	59	360	419	0.06	0.055	2286	0.121732	0.86607	0.701848	0.101768	0.540445
50_35	8/15/17	8.2	85	93.2	0.07	44	340	384	0.06	0.065	2346	0.115186	0.862808	0.697308	0.10111	0.642867
50_36	10/21/17	17	140	157	0.06	23	170	193	0.07	0.065	2413	0.108292	0.859179	0.692378	0.100395	0.647444
50_37	12/17/17	9.4	120	129.4	0.05	7.9	20	20	0.05	0.05	2470	0.102752	0.856104	0.688295	0.099803	0.500988
50_38	2/12/18	11	100	111	0.06	7.6	60	60	0.05	0.055	2527	0.097496	0.85304	0.684309	0.099225	0.554297
50_39	5/6/18	11	120	131	0.06	8	23	23	0.06	0.06	2610	0.090319	0.848599	0.678668	0.098407	0.609714
50_40	6/9/18	8.9	91	99.9	0.06	7.9	18	18	0.06	0.06	2644	0.087534	0.846786	0.67641	0.09808	0.611749
50_41	8/2/18	12	110	122	0.06	6	40	40	0.06	0.06	2698	0.083286	0.843914	0.672886	0.097568	0.614953
50_42	10/12/18	11	120	131	0.06	5	36	36	0.05	0.055	2769	0.078013	0.840154	0.66836	0.096912	0.567524
50_43	11/12/18	7.2	57	57	0.06	13	140	153	0.04	0.05	2800	0.075816	0.838517	0.666422	0.096631	0.517432
50_44	12/8/18	6.1	70	70	0.06	6.6	40	40	0.06	0.06	2826	0.074022	0.837147	0.664812	0.096398	0.622421
50_45	5/5/19	5.7	99	99	0.06	4.7	54	54	0.06	0.06	2974	0.064587	0.82939	0.655926	0.095109	0.630853
50_46	6/13/19	8.1	110	118.1	0.05	5.6	31	31	0.05	0.05	3013	0.062308	0.827358	0.653659	0.09478	0.527535
50_47	8/18/19	6.5	88	94.5	0.05	6.6	73	79.6	0.05	0.05	3079	0.058632	0.82393	0.649886	0.094233	0.530597
50_48	10/29/19	4.6	6.3	6.3	0.06	9.3	150	159.3	0.07	0.065	3151	0.05487	0.820208	0.64586	0.09365	0.694076
50_49	11/15/19	3.7	15	15	0.06	5.4	92	97.4	0.05	0.055	3168	0.054017	0.819331	0.644922	0.093514	0.588149
50_50	12/4/19	7.6	11	11	0.06	7.9	120	120	0.05	0.055	3187	0.05308	0.818352	0.64388	0.093363	0.589101
50_51	8/23/20	6.4	9.7	9.7	0.05	8.3	29	29	0.05	0.05	3450	0.041659	0.804926	0.630029	0.091354	0.54732
50_52	10/8/20	7.1	31	31	0.04	7	48	48	0.04	0.04	3496	0.03993	0.8026	0.627708	0.091018	0.439475
50_53	11/15/20	6.6	18	18	0.05	7.2	40	40	0.05	0.05	3534	0.038557	0.800684	0.625811	0.090743	0.551009
50_54	12/15/20	7.9	45	45	0.05	8.2	82	82	0.04	0.045	3564	0.037506	0.799175	0.624327	0.090527	0.497087
50_55	5/22/21	8.8	16	16	0.05	8.5	57	57	0.04	0.045	3722	0.032425	0.791272	0.616685	0.089419	0.503247
50_56	6/7/21	9.6	21	21	0.052	8.7	44	44	0.04	0.046	3738	0.031951	0.790476	0.615927	0.089309	0.515063
50_57	8/9/21	9.3	26	26	0.05	8.2	10	10	0.04	0.045	3801	0.030149	0.78735	0.61297	0.088881	0.506297
50_58	10/20/21	6.1	35	35	0.05	8.7	47	47	0.04	0.045	3873	0.028214	0.783792	0.60964	0.088398	0.509063
50_59	11/17/21	7.6	15	15	0.05	9	45	45	0.05	0.05	3901	0.027496	0.782413	0.608358	0.088212	0.566816
50_60	12/24/21	8.7	46	46	0.05	8	23	23	0.05	0.05	3938	0.026574	0.780594	0.606677	0.087968	0.568387
50_61	5/12/22	8.2	11	11	0.05	7.4	51	51	0.04	0.045	4077	0.02338	0.773799	0.600473	0.087069	0.516834
50_62	6/9/22	7.9	42	42	0.05	8.4	71	71	0.05	0.05	4105	0.022785	0.772437	0.599244	0.08689	0.575438
50_63	8/5/22	8.3	11	11	0.04	8.3	130	130	0.04	0.04	4162	0.02162	0.769673	0.596761	0.08653	0.462265
50_64	10/10/22	5.5	14	14	0.04	8.1	130	130	0.04	0.04	4228	0.020344	0.766484	0.59392	0.086118	0.464477
50_65	11/7/22	7.2	15	15	0.05	8.5	140	140	0.04	0.045	4256	0.019826	0.765135	0.592724	0.085945	0.52359
50_66	12/12/22	7.3	26	26	0.07	8.8	240	240	0.05	0.06	4291	0.019197	0.763453	0.591239	0.08573	0.699875
50_67	5/23/23	7	66	66	0.05	7.6	140	140	0.05	0.05	4453	0.016536	0.755713	0.584476	0.084749	0.589977
50_68	6/28/23	5.6	15	15	0.05	6.8	150	150	0.04	0.045	4489	0.015996	0.754004	0.582998	0.084535	0.532326
50_69	8/31/23	4.8	23	23	0.05	9.4	67	67	0.04	0.045	4553	0.01508	0.750974	0.58039	0.084157	0.534718
50_70	10/26/23	7.9	27	27	0.06	8.2	53	53	0.04	0.05	4609	0.014322	0.748334	0.57813	0.083829	0.596454
50_71	11/23/23	6	9.4	9.4	0.05	9.9	45	45	0.05	0.05	4637	0.013957	0.747017	0.577007	0.083666	0.597615
50_72	12/20/23	6.3	32	32	0.05	9.5	48	48	0.05	0.05	4664	0.013615	0.745749	0.575928	0.08351	0.598734
50_73	5/29/24	7	14	14	0.06	7.7	35	35	0.04	0.05	4825	0.011738	0.738235	0.569583	0.08259	0.605403
50_74	6/27/24	8.2	31	31	0.05	7.2	51	51	0.04	0.045	4854	0.011428	0.73689	0.568455	0.082426	0.545944
50_75	8/16/24	4.9	92	92	0.06	7.9	76	76	0.04	0.05	4904	0.010914	0.734576	0.566521	0.082146	0.608675

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
51_1	11/22/11	320	420	740	0.21	100	120	220	0.21	0.21	253	0.792097	0.984212	1.001259	0.210264	0.998742
51_2	1/7/12	110	140	250	0.23	79	85	164	0.21	0.22	299	0.759232	0.981369	0.988841	0.207657	1.059442
51_3	2/27/12	110	140	250	0.18	50	87	137	0.19	0.185	350	0.724386	0.978226	0.975575	0.204871	0.903008
51_4	5/22/12	4.5	33	53	0.13	5.8	65	110	0.17	0.15	435	0.669828	0.973009	0.95458	0.200462	0.748273
51_5	7/9/12	18	680	1100	0.14	13	760	1200	0.22	0.18	483	0.640854	0.970076	0.943305	0.198094	0.90866
51_6	9/3/12	10	480	780	0.24	25	2000	3300	0.186	0.213	539	0.608631	0.966665	0.930651	0.195437	1.089867
51_7	10/19/12	12	740	1300	0.22	22	1700	2900	0.26	0.24	585	0.583378	0.963872	0.920643	0.193335	1.241369
51_8	11/16/12	12	500	900	0.21	12	480	860	0.21	0.21	613	0.568523	0.962176	0.914715	0.19209	1.093237
51_9	12/26/12	15	770	1400	0.2	9.1	360	630	0.2	0.2	653	0.547954	0.959758	0.906453	0.190355	1.050667
51_10	5/31/13	460	910	1370	0.148	46	100	146	0.134	0.141	809	0.474604	0.950387	0.876418	0.184048	0.766106
51_11	7/23/13	470	1100	1570	0.14	65	140	205	0.18	0.16	862	0.451988	0.947224	0.866947	0.182059	0.878836
51_12	8/15/13	510	1200	1710	0.14	60	140	200	0.15	0.145	885	0.442512	0.945855	0.862945	0.181218	0.800139
51_13	10/4/13	440	1000	1440	0.14	52	130	182	0.14	0.14	935	0.422591	0.942884	0.854462	0.179437	0.780218
51_14	12/6/13	540	1300	1840	0.15	32	94	126	0.14	0.145	998	0.398763	0.939156	0.84418	0.177278	0.817925
51_15	2/10/14	1000	2500	3500	0.116	46	140	186	0.112	0.114	1064	0.37524	0.935265	0.83387	0.175113	0.65101
51_16	5/19/14	300	740	1040	0.17	78	190	268	0.13	0.15	1162	0.342848	0.929517	0.819372	0.172068	0.871748
51_17	6/18/14	270	730	1000	0.14	69	170	239	0.13	0.135	1192	0.333502	0.927765	0.815117	0.171175	0.788668
51_18	8/7/14	340	940	1280	0.13	100	310	410	0.12	0.125	1242	0.318489	0.924852	0.808207	0.169723	0.736492
51_19	10/20/14	330	1100	1430	0.12	88	250	338	0.11	0.115	1316	0.297501	0.920557	0.798376	0.167659	0.685916
51_20	12/10/14	330	1100	1430	0.14	99	280	379	0.12	0.13	1367	0.283847	0.917609	0.791862	0.166291	0.781762
51_21	2/9/15	280	1100	1380	0.14	23	110	133	0.11	0.125	1428	0.268336	0.914095	0.784336	0.164711	0.758907
51_22	5/20/15	250	890	1140	0.13	39	130	169	0.12	0.125	1528	0.24472	0.908363	0.772585	0.162243	0.77045
51_23	6/13/15	430	1600	2030	0.12	140	530	670	0.12	0.12	1552	0.239369	0.906993	0.769867	0.161672	0.742243
51_24	8/9/15	240	960	1200	0.12	110	520	630	0.04	0.08	1609	0.227124	0.903747	0.763564	0.160348	0.498913
51_25	10/12/15	180	790	970	0.12	94	420	514	0.09	0.105	1673	0.21412	0.900116	0.75673	0.158913	0.660738
51_26	12/20/15	270	1100	1370	0.11	85	340	425	0.09	0.1	1742	0.200933	0.896218	0.749633	0.157423	0.635231
51_27	2/13/16	220	1100	1320	0.13	85	430	515	0.1	0.115	1797	0.191006	0.893123	0.744168	0.156275	0.735881
51_28	5/7/16	130	670	800	0.13	81	420	501	0.11	0.12	1881	0.176783	0.888416	0.736129	0.154587	0.776262
51_29	6/1/16	260	1300	1560	0.14	87	450	537	0.11	0.125	1906	0.172758	0.88702	0.733805	0.154099	0.811167
51_30	8/26/16	190	1000	1190	0.11	77	380	457	0.11	0.11	1992	0.159599	0.882235	0.726037	0.152468	0.721464
51_31	10/19/16	160	940	1100	0.11	30	160	190	0.1	0.105	2046	0.151854	0.879244	0.721331	0.151479	0.693163
51_32	12/17/16	130	900	1030	0.11	47	390	437	0.09	0.1	2105	0.143821	0.875987	0.716331	0.15043	0.664783
51_33	2/14/17	180	1200	1380	0.11	58	300	358	0.09	0.1	2164	0.136212	0.872742	0.711473	0.149409	0.669302
51_34	5/7/17	62	460	522	0.1	42	260	302	0.11	0.105	2246	0.126302	0.868252	0.704944	0.148038	0.709276
51_35	6/11/17	170	980	1150	0.11	26	200	226	0.1	0.105	2281	0.122294	0.866343	0.702232	0.147469	0.712016
51_36	8/5/17	81	600	681	0.11	32	250	282	0.09	0.1	2336	0.116252	0.863351	0.698056	0.146592	0.682167
51_37	10/26/17	83	730	813	0.11	39	360	399	0.08	0.095	2418	0.107794	0.858909	0.692016	0.145323	0.653715
51_38	12/8/17	92	680	772	0.1	20	180	200	0.07	0.085	2461	0.103607	0.856589	0.688933	0.144676	0.58752
51_39	2/12/18	73	760	833	0.1	26	220	246	0.08	0.09	2527	0.097496	0.85304	0.684309	0.143705	0.626284
51_40	5/19/18	44	460	504	0.12	9.9	95	104.9	0.1	0.11	2623	0.089244	0.847905	0.677801	0.142338	0.772807
51_41	6/7/18	57	400	457	0.12	22	160	182	0.12	0.12	2642	0.087695	0.846892	0.676542	0.142074	0.844631
51_42	8/19/18	64	540	604	0.1	30	370	400	0.09	0.095	2715	0.081992	0.843012	0.671791	0.141076	0.673395
51_43	10/19/18	66	790	856	0.11	28	340	368	0.1	0.105	2776	0.077511	0.839784	0.667921	0.140263	0.748592
51_44	11/18/18	120	1300	1420	0.1	20	240	260	0.08	0.09	2806	0.075398	0.838201	0.666049	0.13987	0.643454
51_45	12/8/18	100	1200	1300	0.11	26	310	336	0.09	0.1	2826	0.074022	0.837147	0.664812	0.139611	0.716278
51_46	5/5/19	65	920	985	0.09	23	280	303	0.08	0.085	2974	0.064587	0.82939	0.655926	0.137745	0.617084
51_47	6/21/19	54	790	844	0.09	28	360	388	0.08	0.085	3021	0.06185	0.826942	0.653197	0.137171	0.619663
51_48	8/20/19	73	940	1013	0.09	19	250	269	0.08	0.085	3081	0.058525	0.823827	0.649773	0.136452	0.622928
51_49	10/31/19	48	620	668	0.09	10	150	160	0.08	0.085	3153	0.054769	0.820104	0.645749	0.135607	0.62681
51_50	11/22/19	51	830	881	0.09	20	350	370	0.08	0.085	3175	0.05367	0.81897	0.644537	0.135353	0.627988
51_51	12/15/19	30	610	640	0.09	21	380	401	0.07	0.08	3198	0.052545	0.817786	0.643279	0.135089	0.592204
51_52	8/24/20	30	570	600	0.07	25	500	525	0.07	0.07	3451	0.04162	0.804875	0.629978	0.132295	0.529119
51_53	10/18/20	32	690	722	0.07	27	600	627	0.08	0.075	3506	0.039564	0.802096	0.627207	0.131713	0.569418
51_54	11/15/20	38	810	848	0.08	9.7	180	189.7	0.07	0.075	3534	0.038557	0.800684	0.625811	0.13142	0.570688
51_55	12/11/20	20	510	530	0.07	14	370	384	0.07	0.07	3560	0.037644	0.799376	0.624524	0.13115	0.53374
51_56	5/22/21	18	470	488	0.08	8.5	26	26	0.07	0.075	3722	0.032425	0.791272	0.616685	0.129504	0.579133
51_57	6/7/21	9.2	230	230	0.07	7.5	27	27	0.07	0.07	3738	0.031951	0.790476	0.615927	0.129345	0.541189
51_58	8/9/21	15	520	535	0.07	7.2	36	36	0.07	0.07	3801	0.030149	0.78735	0.61297	0.128724	0.543801
51_59	10/20/21	35	1100	1135	0.08	14	360	374	0.07	0.075	3873	0.028214	0.783792	0.60964	0.128024	0.585826
51_60	11/17/21	24	650	674	0.07	13	370	383	0.07	0.07	3901	0.027496	0.782413	0.608358	0.127755	0.547923
51_61	12/25/21	17	720	737	0.07	15	390	405	0.08	0.075	3939	0.02655	0.780545	0.606632	0.127393	0.588731
51_62	5/12/22	16	520	536	0.07	25	630	655	0.07	0.07	4077	0.02338	0.773799	0.600473	0.126099	0.555118
51_63	6/9/22	26	820	846	0.07	12	360	372	0.07	0.07	4105	0.022785	0.772437	0.599244	0.125841	0.556257
51_64	8/5/22	9.9	320	329.9	0.07	11	510	521	0.07	0.07	4162	0.02162	0.769673	0.596761	0.12532	0.558571
51_65	10/10/22	27	700	727	0.07	17	450	467	0.07	0.07	4228	0.020344	0.766484	0.59392	0.124723	0.561243
51_66	11/7/22	16	490	506	0.08	18	560	578	0.07	0.075	4256	0.019826	0.765135	0.592724	0.124472	0.602545
51_67	12/12/22	21	980	1001	0.07	14	690	704	0.07	0.07	4291	0.019197	0.763453	0.591239	0.12416	0.563788
51_68	5/25/23	15	700	715	0.07	14	770	784	0.07	0.07	4455	0.016505	0.755618	0.584394	0.122723	0.570392
51_69	6/26/23	13	800	813	0.07	20	710	730	0.07	0.07	4487	0.016026	0.754098	0.58308	0.122447	0.571677
51_70	8/28/23	12	790	802	0.08	19	1000	1019	0.06	0.07	4550	0.015122	0.751116	0.580512	0.121907	0.574206
51_71	10/27/23	26	1400	1426	0.08	9.9	430	430	0.07	0.075	4610	0.014309	0.748287	0.578089	0.121399	0.617799
51_72	11/24/23	23	920	943	0.08	13	540	553	0.07	0.075	4638	0.013945	0.74697	0.576967	0.121163	0.619001
51_73	12/21/23	13	990	1003	0.08	17	610	627	0.07	0.075	4665	0.013602	0.745703	0.575888	0.120937	0.62016
51_74	5/20/24	17	680	697	0.07	12	810	822	0.07	0.07	4816	0.011836	0.738653	0.569934	0.119686	0.584863
51_75	6/18/24	9.8	800	800	0.07	17	1300	1317	0.07	0.07	4845	0.011524	0.737307	0.568805	0.119449	0.586024
51_76	8/16/24	10	660	670	0.06	7.9	430	430	0.07	0.065	4904	0.010914	0.734576	0.566521	0.118969	0.546359

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
52_1	11/26/11	340	460	800	0.19	570	800	1370	0.21	0.2	257	0.789184	0.983965	1.000162	0.200032	0.999838
52_2	1/20/12	290	380	670	0.11	790	1000	1790	0.12	0.115	312	0.750194	0.980567	0.98541	0.197082	0.583513
52_3	2/26/12	240	340	580	0.18	410	560	970	0.21	0.195	349	0.725054	0.978287	0.975831	0.195166	0.999149
52_4	5/22/12	11	400	580	0.17	12	540	780	0.16	0.165	435	0.669828	0.973009	0.95458	0.190916	0.864255
52_5	7/13/12	5.6	100	150	0.16	9.6	300	510	0.15	0.155	487	0.638497	0.969832	0.942383	0.188477	0.822383
52_6	9/6/12	14	920	1400	0.222	9.5	440	720	0.17	0.196	542	0.606951	0.966483	0.929988	0.185998	1.053777
52_7	11/9/12	12	660	1200	0.2	8.5	290	510	0.15	0.175	606	0.572201	0.9626	0.916185	0.183237	0.955047
52_8	12/26/12	6.4	130	240	0.17	8.8	260	490	0.19	0.18	653	0.547954	0.959758	0.906453	0.181291	0.992881
52_9	5/31/13	110	220	330	0.13	290	630	920	0.144	0.137	809	0.474604	0.950387	0.876418	0.175284	0.781591
52_10	7/9/13	780	1600	2380	0.18	310	610	920	0.08	0.13	848	0.457855	0.948058	0.869415	0.173883	0.747629
52_11	8/13/13	770	1600	2370	0.15	290	590	880	0.11	0.13	883	0.443328	0.945974	0.863291	0.172658	0.752933
52_12	10/4/13	720	1600	2320	0.2	230	500	730	0.13	0.165	935	0.422591	0.942884	0.854462	0.170892	0.965519
52_13	12/6/13	610	1500	2110	0.21	230	570	800	0.14	0.175	998	0.398763	0.939156	0.84418	0.168836	1.036508
52_14	2/9/14	1200	2900	4100	0.136	210	550	760	0.088	0.112	1063	0.375586	0.935324	0.834022	0.166804	0.671445
52_15	5/19/14	270	780	1050	0.12	140	450	590	0.09	0.105	1162	0.342848	0.929517	0.819372	0.163874	0.640735
52_16	6/15/14	170	490	660	0.12	130	400	530	0.08	0.1	1189	0.334425	0.92794	0.815539	0.163108	0.613091
52_17	8/7/14	170	540	710	0.14	190	570	760	0.09	0.115	1242	0.318489	0.924852	0.808207	0.161641	0.711452
52_18	10/17/14	150	500	650	0.11	160	480	640	0.08	0.095	1313	0.298324	0.920731	0.798765	0.159753	0.594668
52_19	12/13/14	160	550	710	0.12	160	540	700	0.07	0.095	1370	0.283063	0.917436	0.791485	0.158297	0.600138
52_20	2/10/15	120	450	570	0.11	110	380	490	0.1	0.105	1429	0.268089	0.914037	0.784215	0.156843	0.669459
52_21	5/20/15	150	610	760	0.11	130	440	570	0.09	0.1	1528	0.24472	0.908363	0.772585	0.154517	0.647178
52_22	6/12/15	210	760	970	0.1	130	520	650	0.09	0.095	1551	0.23959	0.90705	0.76998	0.153996	0.616899
52_23	8/6/15	120	500	620	0.09	110	370	480	0.07	0.08	1606	0.227753	0.903917	0.763891	0.152778	0.523635
52_24	10/15/15	100	450	550	0.08	100	450	550	0.07	0.075	1676	0.213529	0.899946	0.756415	0.151283	0.495759
52_25	12/19/15	98	520	618	0.08	120	470	590	0.08	0.08	1741	0.201118	0.896274	0.749734	0.149947	0.533523
52_26	2/13/16	94	480	574	0.1	67	410	477	0.09	0.095	1797	0.191006	0.893123	0.744168	0.148834	0.638297
52_27	5/7/16	86	420	506	0.1	75	430	505	0.1	0.1	1881	0.176783	0.888416	0.736129	0.147226	0.679229
52_28	6/1/16	100	490	590	0.1	63	330	393	0.08	0.09	1906	0.172758	0.88702	0.733805	0.146761	0.613242
52_29	8/15/16	88	450	538	0.09	98	520	618	0.09	0.09	1981	0.161225	0.882846	0.727011	0.145402	0.618972
52_30	10/9/16	65	360	425	0.08	74	450	524	0.09	0.085	2036	0.153259	0.879797	0.722193	0.144439	0.588486
52_31	12/13/16	75	450	525	0.08	60	330	390	0.07	0.075	2101	0.144351	0.876207	0.716666	0.143333	0.523257
52_32	2/14/17	59	340	399	0.08	48	300	348	0.08	0.08	2164	0.136212	0.872742	0.711473	0.142295	0.562214
52_33	5/21/17	45	330	375	0.08	73	560	633	0.09	0.085	2260	0.124683	0.867488	0.703854	0.140771	0.603818
52_34	6/13/17	57	330	387	0.07	52	420	472	0.07	0.07	2283	0.122069	0.866234	0.702078	0.140416	0.49852
52_35	8/18/17	52	320	372	0.06	67	430	497	0.06	0.06	2349	0.114868	0.862645	0.697084	0.139417	0.430364
52_36	10/24/17	38	310	348	0.08	44	400	444	0.07	0.075	2416	0.107993	0.859017	0.692161	0.138432	0.541782
52_37	12/13/17	33	310	343	0.08	28	250	278	0.08	0.08	2466	0.103131	0.85632	0.688578	0.137716	0.580907
52_38	2/4/18	48	360	408	0.07	39	300	339	0.07	0.07	2519	0.098217	0.85347	0.684863	0.136973	0.511051
52_39	5/19/18	36	360	396	0.08	34	320	354	0.08	0.08	2623	0.089244	0.847905	0.677801	0.13556	0.590144
52_40	6/9/18	21	300	321	0.08	41	360	401	0.08	0.08	2644	0.087534	0.846786	0.67641	0.135282	0.591357
52_41	8/19/18	27	340	367	0.09	28	340	368	0.07	0.08	2715	0.081992	0.843012	0.671791	0.134358	0.595423
52_42	10/14/18	18	240	258	0.08	29	290	319	0.07	0.075	2771	0.077869	0.840048	0.668235	0.133647	0.56118
52_43	11/18/18	29	300	329	0.07	26	290	316	0.08	0.075	2806	0.075398	0.838201	0.666049	0.13321	0.563022
52_44	12/8/18	20	220	240	0.08	23	250	273	0.09	0.085	2826	0.074022	0.837147	0.664812	0.132962	0.639278
52_45	5/5/19	24	340	364	0.07	27	410	437	0.07	0.07	2974	0.064587	0.82939	0.655926	0.131185	0.533596
52_46	6/16/19	25	280	305	0.06	21	310	331	0.07	0.065	3016	0.062136	0.827202	0.653485	0.130697	0.497333
52_47	8/20/19	16	300	316	0.05	31	340	371	0.07	0.06	3081	0.058525	0.823827	0.649773	0.129955	0.4617
52_48	10/18/19	16	280	296	0.08	26	430	456	0.07	0.075	3140	0.055428	0.820775	0.646469	0.129294	0.580074
52_49	11/15/19	25	320	345	0.07	19	310	329	0.07	0.07	3168	0.054017	0.819331	0.644922	0.128984	0.542701
52_50	12/4/19	18	270	288	0.07	17	250	267	0.06	0.065	3187	0.05308	0.818352	0.64388	0.128776	0.504753
52_51	8/23/20	15	290	305	0.06	16	240	256	0.07	0.065	3450	0.041659	0.804926	0.630029	0.126006	0.515849
52_52	10/14/20	14	230	244	0.06	10	210	220	0.07	0.065	3502	0.03971	0.802297	0.627407	0.125481	0.518005
52_53	11/13/20	12	280	292	0.06	13	260	273	0.06	0.06	3532	0.038628	0.800785	0.625911	0.125182	0.479302
52_54	12/16/20	14	270	284	0.06	17	310	327	0.06	0.06	3565	0.037471	0.799125	0.624277	0.124855	0.480556
52_55	5/22/21	13	270	283	0.16	9.5	190	199.5	0.09	0.125	3722	0.032425	0.791272	0.616685	0.123337	1.013483
52_56	6/7/21	14	280	294	0.06	15	280	295	0.06	0.06	3738	0.031951	0.790476	0.615927	0.123185	0.48707
52_57	8/9/21	13	330	343	0.06	16	330	346	0.07	0.065	3801	0.030149	0.78735	0.61297	0.122594	0.530206
52_58	10/21/21	9.8	250	259.8	0.06	8.6	250	258.6	0.06	0.06	3874	0.028188	0.783743	0.609594	0.121919	0.492131
52_59	11/17/21	9.8	240	249.8	0.05	10	280	290	0.05	0.05	3901	0.027496	0.782413	0.608358	0.121672	0.410942
52_60	12/25/21	12	290	302	0.08	7.7	200	200	0.08	0.08	3939	0.02655	0.780545	0.606632	0.121326	0.659378
52_61	5/12/22	10	320	330	0.06	9	240	240	0.07	0.065	4077	0.02338	0.773799	0.600473	0.120095	0.54124
52_62	6/9/22	8.7	250	250	0.06	9.9	280	280	0.06	0.06	4105	0.022785	0.772437	0.599244	0.119849	0.500631
52_63	8/5/22	7.1	210	217.1	0.06	9.7	320	320	0.06	0.06	4162	0.02162	0.769673	0.596761	0.119352	0.502713
52_64	10/10/22	9.9	330	330	0.05	9.1	230	230	0.05	0.05	4228	0.020344	0.766484	0.59392	0.118784	0.420932
52_65	11/7/22	19	540	559	0.07	9.2	32	32	0.06	0.065	4256	0.019826	0.765135	0.592724	0.118545	0.548316
52_66	12/12/22	9.4	240	240	0.06	8.6	230	230	0.07	0.065	4291	0.019197	0.763453	0.591239	0.118248	0.549694
52_67	5/24/23	7.3	240	240	0.06	9.4	220	220	0.06	0.06	4454	0.01652	0.755665	0.584435	0.116887	0.513316
52_68	6/28/23	7.6	330	337.6	0.07	6.2	290	290	0.06	0.065	4489	0.015996	0.754004	0.582998	0.1166	0.557464
52_69	8/31/23	9.4	360	360	0.05	9.2	250	250	0.06	0.055	4553	0.01508	0.750974	0.58039	0.116078	0.473819
52_70	10/26/23	8.1	160	160	0.07	9.9	210	210	0.06	0.065	4609	0.014322	0.748334	0.57813	0.115626	0.562158
52_71	11/23/23	9.6	190	190	0.06	7.3	240	240	0.06	0.06	4637	0.013957	0.747017	0.577007	0.115401	0.519925
52_72	12/21/23	9.2	220	220	0.06	8.4	230	230	0.07	0.065	4665	0.013602	0.745703	0.575888	0.115178	0.564346
52_73	5/29/24	8	60	60	0.05	8.7	230	230	0.06	0.055	4825	0.011738	0.738235	0.569583	0.113917	0.482809
52_74	6/27/24	7.6	230	230	0.06	7.6	260	260	0.05	0.055	4854	0.011428	0.73689	0.568455	0.113691	0.483767
52_75	8/16/24	7.2	96	96	0.05	9.6	230	230	0.06	0.055	4904	0.010914	0.734576	0.566521	0.113304	0.485419

UniqueID	Date of Collection	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Dose	Days Since	Cs-134	Cs-137	Total Gamm	Physical De	Observed/P
53_1	11/23/11	950	1100	2050	0.15	570	680	1250	0.2	0.175	254	0.791368	0.98415	1.000985	0.175172	0.999016
53_2	1/7/12	140	190	330	0.16	310	420	730	0.21	0.185	299	0.759232	0.981369	0.988841	0.173047	1.069073
53_3	2/27/12	240	310	550	0.16	340	520	860	0.22	0.19	350	0.724386	0.978226	0.975575	0.170726	1.112896
53_4	5/22/12	5.1	100	150	0.15	8.8	350	540	0.19	0.17	435	0.669828	0.973009	0.95458	0.167051	1.017651
53_5	7/13/12	6.4	140	200	0.14	8.4	370	570	0.14	0.14	487	0.638497	0.969832	0.942383	0.164917	0.848912
53_6	9/6/12	12	500	810	0.11	9.9	480	720	0.136	0.123	542	0.606951	0.966483	0.929988	0.162748	0.75577
53_7	11/16/12	9.2	350	600	0.11	9.2	390	630	0.21	0.16	613	0.568523	0.962176	0.914715	0.160075	0.999531
53_8	12/26/12	17	970	1700	0.15	10	420	760	0.23	0.19	653	0.547954	0.959758	0.906453	0.158629	1.197761
53_9	5/31/13	130	250	380	0.098	550	1100	1650	0.166	0.132	809	0.474604	0.950387	0.876418	0.153373	0.860646
53_10	7/9/13	380	760	1140	0.1	220	460	680	0.11	0.105	848	0.457855	0.948058	0.869415	0.152148	0.690119
53_11	8/15/13	260	570	830	0.08	820	1700	2520	0.14	0.11	885	0.442512	0.945855	0.862945	0.151015	0.728402
53_12	10/4/13	240	540	780	0.09	500	1000	1500	0.15	0.12	935	0.422591	0.942884	0.854462	0.149531	0.80251
53_13	12/6/13	270	610	880	0.09	400	1000	1400	0.14	0.115	998	0.398763	0.939156	0.84418	0.147732	0.778439
53_14	2/9/14	140	370	510	0.064	200	480	680	0.08	0.072	1063	0.375586	0.935324	0.834022	0.145954	0.493306
53_15	5/22/14	270	830	1100	0.09	400	1100	1500	0.18	0.135	1165	0.341901	0.929342	0.818943	0.143315	0.941981
53_16	6/12/14	200	670	870	0.07	130	410	540	0.07	0.07	1186	0.335351	0.928115	0.815962	0.142793	0.490219
53_17	8/7/14	12	52	64	0.04	510	1400	1910	0.07	0.055	1242	0.318489	0.924852	0.808207	0.141436	0.388868
53_18	10/17/14	22	71	93	0.05	280	910	1190	0.07	0.06	1313	0.298324	0.920731	0.798765	0.139784	0.429234
53_19	12/13/14	5.9	9.3	9.3	0.04	140	500	640	0.09	0.065	1370	0.283063	0.917436	0.791485	0.13851	0.469281
53_20	2/10/15	9.6	9.2		0.05	100	380	480	0.07	0.06	1429	0.268089	0.914037	0.784215	0.137238	0.437198
53_21	5/20/15	5.6	27	32.6	0.04	24	110	134	0.06	0.05	1528	0.24472	0.908363	0.772585	0.135202	0.369816
53_22	6/12/15	56	250	306	0.04	9.6	24	24	0.06	0.05	1551	0.23959	0.90705	0.76998	0.134746	0.371067
53_23	8/5/15	140	500	640	0.04	310	1200	1510	0.05	0.045	1605	0.227962	0.903974	0.764	0.1337	0.336575
53_24	10/13/15	20	74	94	0.04	5.5	8.5	8.5	0.03	0.035	1674	0.213923	0.900059	0.756625	0.132409	0.264332
53_25	12/19/15	1.1	3.6	4.7	0.04	17	55	72	0.04	0.04	1741	0.201118	0.896274	0.749734	0.131203	0.30487
53_26	2/13/16	21	150	171	0.07	98	550	648	0.09	0.08	1797	0.191006	0.893123	0.744168	0.130229	0.614301
53_27	5/22/16	20	100	120	0.07	100	580	680	0.09	0.08	1896	0.174357	0.887578	0.734731	0.128578	0.622191
53_28	6/5/16	17	98	115	0.06	82	450	532	0.08	0.07	1910	0.172122	0.886797	0.733436	0.128351	0.545378
53_29	8/15/16	70	370	440	0.06	100	570	670	0.07	0.065	1981	0.161225	0.882846	0.727011	0.127227	0.510898
53_30	10/9/16	16	110	126	0.07	99	690	789	0.09	0.08	2036	0.153259	0.879797	0.722193	0.126384	0.632993
53_31	12/11/16	39	280	319	0.06	110	800	910	0.09	0.075	2099	0.144618	0.876317	0.716833	0.125446	0.597868
53_32	2/5/17	71	520	591	0.07	15	150	165	0.07	0.07	2155	0.137346	0.873236	0.712206	0.124636	0.561636
53_33	5/7/17	21	120	141	0.06	14	77	91	0.07	0.065	2246	0.126302	0.868252	0.704944	0.123365	0.526891
53_34	6/18/17	8.7	46	54.7	0.05	4.9	23	27.9	0.05	0.05	2288	0.121508	0.865961	0.701695	0.122797	0.407178
53_35	8/15/17	6.5	53	59.5	0.06	6.9	42	48.9	0.06	0.06	2346	0.115186	0.862808	0.697308	0.122029	0.491687
53_36	10/22/17	24	190	214	0.06	7	32	32	0.07	0.065	2414	0.108192	0.859125	0.692306	0.121153	0.53651
53_37	12/17/17	18	220	238	0.05	7.9	37	37	0.05	0.05	2470	0.102752	0.856104	0.688295	0.120452	0.415104
53_38	2/4/18	0.53	1.5	1.5	0.05	5.2	25	25	0.05	0.05	2519	0.098217	0.85347	0.684863	0.119851	0.417185
53_39	5/6/18	0.7	1.8	1.8	0.04	8.1	35	35	0.05	0.045	2610	0.090319	0.848599	0.678668	0.118767	0.378894
53_40	6/17/18	0.56	1.7	1.7	0.04	5.5	23	23	0.05	0.045	2652	0.086891	0.84636	0.675884	0.11828	0.380454
53_41	8/15/18	3.6	4.8	4.8	0.05	5.5	17	17	0.05	0.05	2711	0.082294	0.843225	0.672048	0.117608	0.42514
53_42	10/14/18	6	22	22	0.04	6.7	13	13	0.05	0.045	2771	0.077869	0.840048	0.668235	0.116941	0.384809
53_43	11/18/18	6.5	8.5	8.5	0.05	7.2	23	23	0.04	0.045	2806	0.075398	0.838201	0.666049	0.116559	0.386072
53_44	12/16/18	0.87	1.6	1.6	0.04	4.8	15	15	0.05	0.045	2834	0.073478	0.836726	0.66432	0.116256	0.387077
53_45	5/17/19				0.05				0.05	0.05	2986	0.063877	0.828764	0.655226	0.114664	0.436055
53_46	6/13/19				0.05				0.05	0.05	3013	0.062308	0.827358	0.653659	0.11439	0.4371
53_47	8/18/19				0.05				0.05	0.05	3079	0.058632	0.82393	0.649886	0.11373	0.439638
53_48	10/18/19				0.06				0.05	0.055	3140	0.055428	0.820775	0.646469	0.113132	0.486157
53_49	11/24/19				0.06				0.05	0.055	3177	0.053571	0.818867	0.644428	0.112775	0.487697
53_50	12/15/19				0.06				0.06	0.06	3198	0.052545	0.817786	0.643279	0.112574	0.532983
53_51	8/24/20								0.05	0.05	3451	0.04162	0.804875	0.629978	0.110246	0.45353
53_52	10/8/20				0.04				0.04	0.04	3496	0.03993	0.8026	0.627708	0.109849	0.364137
53_53	11/15/20				0.05				0.05	0.05	3534	0.038557	0.800684	0.625811	0.109517	0.45655
53_54	12/16/20				0.05				0.05	0.05	3565	0.037471	0.799125	0.624277	0.109249	0.457672
53_55	5/22/21				0.09				0.08	0.085	3722	0.032425	0.791272	0.616685	0.10792	0.787621
53_56	6/7/21				0.05				0.05	0.05	3738	0.031951	0.790476	0.615927	0.107787	0.463877
53_57	8/9/21				0.05				0.04	0.045	3801	0.030149	0.78735	0.61297	0.10727	0.419503
53_58	10/21/21				0.05				0.05	0.05	3874	0.028188	0.783743	0.609594	0.106679	0.468696
53_59	11/17/21				0.04				0.05	0.045	3901	0.027496	0.782413	0.608358	0.106463	0.422683
53_60	12/24/21				0.06				0.06	0.06	3938	0.026574	0.780594	0.606677	0.106168	0.565139
53_61	5/12/22				0.05				0.04	0.045	4077	0.02338	0.773799	0.600473	0.105083	0.428234
53_62	6/9/22				0.04				0.04	0.04	4105	0.022785	0.772437	0.599244	0.104868	0.381433
53_63	8/5/22				0.04				0.05	0.045	4162	0.02162	0.769673	0.596761	0.104433	0.430897
53_64	10/10/22				0.05				0.04	0.045	4228	0.020344	0.766484	0.59392	0.103936	0.432959
53_65	11/30/22				0.04				0.05	0.045	4279	0.01941	0.764029	0.591747	0.103556	0.434549
53_66	12/12/22				0.06				0.07	0.065	4291	0.019197	0.763453	0.591239	0.103467	0.628221
53_67	5/23/23				0.05				0.05	0.05	4453	0.016536	0.755713	0.584476	0.102283	0.488838
53_68	6/28/23				0.05				0.05	0.05	4489	0.015996	0.754004	0.582998	0.102025	0.490078
53_69	8/31/23				0.04				0.05	0.045	4553	0.01508	0.750974	0.58039	0.101568	0.443052
53_70	10/26/23				0.04				0.05	0.045	4609	0.014322	0.748334	0.57813	0.101173	0.444784
53_71	11/23/23				0.05				0.05	0.05	4637	0.013957	0.747017	0.577007	0.100976	0.495166
53_72	12/21/23				0.05				0.06	0.055	4665	0.013602	0.745703	0.575888	0.10078	0.545741
53_73	5/29/24				0.04				0.05	0.045	4825	0.011738	0.738235	0.569583	0.099677	0.451458
53_74	6/27/24				0.04				0.04	0.04	4854	0.011428	0.73689	0.568455	0.09948	0.402092
53_75	8/16/24				0.04				0.05	0.045	4904	0.010914	0.734576	0.566521	0.099141	0.453898

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
54_1	11/22/11	2600	3100	5700	0.65	1100	1400	2500	0.79	0.72	253	0.79209718	0.98421225	1.00125936	0.72090674	0.99874222
54_2	1/20/12	1900	2600	4500	0.62	4000	5400	9400	0.67	0.645	312	0.75019376	0.98056651	0.98541003	0.70949522	0.90909703
54_3	3/2/12	2500	3400	5900	0.54					0.54	354	0.72172188	0.97797947	0.97455674	0.70168085	0.76958064
54_4	5/2/12	19	1600	2300	0.48	18	1500	2200	0.51	0.495	415	0.68228321	0.97423425	0.95939901	0.69076729	0.71659444
54_5	7/12/12	18	1800	2900	0.49	12	730	1200	0.59	0.54	486	0.63908502	0.96989312	0.94261323	0.67868153	0.79566038
54_6	10/9/12	16	1400	2300	0.43	20	1900	3400	0.533	0.4815	575	0.58877731	0.96447873	0.92278981	0.66440866	0.72470458
54_7	11/22/12	18	1800	3200	0.45	30	4500	7900	0.72	0.585	619	0.56538895	0.96181313	0.91346001	0.65769121	0.88947517
54_8	12/20/12	19	1900	3500	0.45	17	1500	2700	0.55	0.5	647	0.55099155	0.96012067	0.90767724	0.65352761	0.76507862
54_9	1/28/13	18	1600	2900	0.35					0.35	686	0.53154693	0.95776829	0.89981617	0.64786764	0.5402338
54_10	5/9/13	1100	2200	3300	0.51	380	810	1190	0.338	0.424	787	0.48432069	0.95170297	0.88045374	0.6339267	0.66884705
54_11	6/19/13	1300	2600	3900	0.338	1200	2600	3800	0.432	0.385	828	0.46636885	0.94925178	0.87298199	0.62854703	0.61252377
54_12	8/1/13	2300	5100	7400	0.47	830	1700	2530	0.304	0.387	871	0.44825575	0.94668781	0.86537354	0.62306895	0.62111906
54_13	10/1/13	2000	4500	6500	0.24	810	1800	2610	0.452	0.346	932	0.4237607	0.94306243	0.8549632	0.6155735	0.56207748
54_14	12/2/13	1800	4400	6200	0.342	950	2400	3350	0.422	0.382	994	0.40023531	0.93939183	0.84482028	0.6082706	0.62800997
54_15	2/3/14	2000	5000	7000	0.41	900	2200	3100	0.408	0.409	1057	0.37766787	0.93567667	0.83494163	0.60115798	0.68035361
54_16	5/15/15	560	2000	2560	0.29	900	3300	4200	0.32	0.305	1523	0.2458501	0.90864873	0.77315588	0.55667224	0.54789871
54_17	6/11/15	1000	3800	4800	0.31	1100	4100	5200	0.31	0.31	1550	0.23981044	0.90710688	0.77009233	0.55446648	0.55909602
54_18	8/17/15	1200	4800	6000	0.25	650	2600	3250	0.29	0.27	1617	0.2254563	0.9032921	0.76269608	0.54914118	0.49167684
54_19	10/7/15	650	2700	3350	0.24	880	3600	4480	0.24	0.24	1668	0.21510873	0.90039907	0.75725464	0.54522334	0.44018659
54_20	12/3/15	550	2400	2950	0.28	730	3200	3930	0.22	0.25	1725	0.20410479	0.89717665	0.7513562	0.54097646	0.46212732
54_21	1/11/16	520	2400	2920	0.25	460	2000	2460	0.18	0.215	1764	0.19690188	0.89497849	0.74742712	0.53814752	0.3995187
54_22	5/17/16	670	3400	4070	0.31	380	1800	2180	0.2	0.255	1891	0.17516167	0.88785761	0.73519538	0.52934068	0.48173135
54_23	6/7/16	370	1800	2170	0.31	510	2600	3110	0.21	0.26	1912	0.17180559	0.88668561	0.73325139	0.527941	0.49247927
54_24	8/8/16	500	2700	3200	0.28	300	1600	1900	0.24	0.26	1974	0.16226767	0.88323445	0.72763433	0.52389671	0.49628103
54_25	10/24/16	1200	6700	7900	0.28	310	1700	2010	0.23	0.255	2051	0.15115602	0.87896702	0.72090124	0.51904889	0.4912832
54_26	12/6/16	750	4600	5350	0.2	200	1200	1400	0.19	0.195	2094	0.14528534	0.87659289	0.7172523	0.51642166	0.37759842
54_27	1/13/17	270	1700	1970	0.28	180	1300	1480	0.15	0.215	2132	0.14028736	0.87450016	0.71409097	0.5141455	0.41816957
54_28	5/10/17	300	2200	2500	0.3	260	1900	2160	0.23	0.265	2249	0.12595302	0.86808808	0.70470981	0.50739106	0.5222796
54_29	6/9/17	310	2000	2310	0.29	270	2000	2270	0.18	0.235	2279	0.12251973	0.86645154	0.70238565	0.50571766	0.46468616
54_30	8/9/17	590	4700	5290	0.25	160	1300	1460	0.18	0.215	2340	0.11582461	0.86313342	0.69775621	0.50238447	0.42795909
54_31	10/8/17	190	1400	1590	0.23	210	1800	2010	0.18	0.205	2400	0.10959626	0.85988209	0.69332339	0.49919284	0.41066294
54_32	12/6/17	320	2700	3020	0.22	130	1100	1230	0.18	0.2	2459	0.10379842	0.8566969	0.68907539	0.49613428	0.40311667
54_33	1/10/18	310	2800	3110	0.14	250	2300	2550	0.16	0.15	2494	0.10050502	0.85481296	0.68660515	0.49435571	0.30342524
54_34	5/8/18	480	4800	5280	0.26	310	3000	3310	0.2	0.23	2612	0.09015249	0.84849185	0.67853422	0.48854464	0.47078605
54_35	6/2/18	140	1600	1740	0.23	290	2700	2990	0.18	0.205	2637	0.08809993	0.84715864	0.67687275	0.48734838	0.42064365
54_36	8/12/18	430	4600	5030	0.26	240	2700	2940	0.2	0.23	2708	0.08252196	0.84338375	0.67224119	0.48401366	0.4751932
54_37	10/4/18	220	2300	2520	0.24	160	1900	2060	0.19	0.215	2761	0.07858959	0.84057685	0.66886435	0.48158233	0.44644495
54_38	11/2/18	210	2600	2810	0.24	220	2600	2820	0.19	0.215	2790	0.07651781	0.83904495	0.66704457	0.48027209	0.44766291
54_39	12/2/18	190	2100	2290	0.23	140	1700	1840	0.2	0.215	2820	0.07443205	0.83746316	0.66518219	0.47893117	0.44891628
54_40	5/9/19	140	2000	2140	0.23	300	4200	4500	0.17	0.2	2978	0.0643497	0.82918151	0.65569248	0.47209859	0.42364033
54_41	6/4/19	140	2100	2240	0.19	110	1600	1710	0.17	0.18	3004	0.06282671	0.82782657	0.65417933	0.47100912	0.38215821
54_42	8/9/19	170	2500	2670	0.2	140	2000	2140	0.18	0.19	3070	0.05912059	0.82439706	0.65039568	0.46828489	0.40573592
54_43	10/6/19	200	3000	3200	0.2	190	3000	3190	0.18	0.19	3128	0.0560446	0.82139497	0.64713602	0.46593793	0.40777963
54_44	11/1/19	110	1800	1910	0.21	90	1300	1390	0.17	0.19	3154	0.05471817	0.82005276	0.64569385	0.46489957	0.40869041
54_45	12/3/19	89	1400	1489	0.2	99	1500	1599	0.16	0.18	3186	0.05312866	0.81840382	0.64393459	0.46363291	0.38823819
54_46	8/13/20	130	2400	2530	0.18	91	1900	1991	0.13	0.155	3440	0.04204431	0.8054324	0.63053759	0.45398706	0.34141942
54_47	10/5/20	130	3100	3230	0.16	51	1100	1151	0.15	0.155	3493	0.0400408	0.8027518	0.62785849	0.45205811	0.34287627
54_48	11/9/20	80	1600	1680	0.18	90	1900	1990	0.15	0.165	3528	0.03877035	0.80098649	0.62610942	0.45079878	0.36601696
54_49	12/3/20	40	1100	1140	0.19	58	1400	1458	0.15	0.17	3552	0.03792257	0.79977823	0.62491906	0.44994172	0.37782671
54_50	5/27/21	60	1400	1460	0.15	65	1300	1365	0.16	0.155	3727	0.03227623	0.79102295	0.61644826	0.44384275	0.34922278
54_51	6/8/21	64	1500	1564	0.15	110	2900	3010	0.17	0.16	3739	0.03192139	0.79042611	0.61588018	0.44343373	0.36082054
54_52	8/27/21	140	3800	3940	0.16	75	1900	1975	0.15	0.155	3819	0.02965343	0.78645868	0.61213222	0.4407352	0.35168509
54_53	10/9/21	93	2300	2393	0.17	74	2400	2474	0.16	0.165	3862	0.02850174	0.78433441	0.61014498	0.43930438	0.37559379
54_54	11/19/21	110	3600	3710	0.17	68	1700	1768	0.15	0.16	3903	0.02744529	0.7823143	0.60826725	0.43795242	0.36533649
54_55	12/19/21	150	3700	3850	0.17	19	730	749	0.16	0.165	3933	0.02669717	0.78083947	0.60690358	0.43697058	0.37759979
54_56	5/16/22	150	5300	5450	0.18	40	1700	1740	0.15	0.165	4081	0.02329446	0.7736042	0.600297	0.43221384	0.38175547
54_57	6/14/22	44	1900	1944	0.17	23	800	823	0.15	0.16	4110	0.02268037	0.77219436	0.59902491	0.43129794	0.37097326
54_58	8/15/22	82	3200	3282	0.14	45	1900	1945	0.13	0.135	4172	0.02142126	0.76918882	0.59632862	0.42935661	0.31442395
54_59	10/11/22	98	3800	3898	0.15	64	2400	2464	0.13	0.14	4229	0.02032545	0.76643599	0.59387693	0.42759139	0.32741539
54_60	11/8/22	170	7300	7470	0.13	37	1600	1637	0.13	0.13	4257	0.01980787	0.76508733	0.59268181	0.4267309	0.30464163
54_61	12/17/22	91	3900	3991	0.16	24	1000	1024	0.15	0.155	4296	0.01910884	0.76321279	0.59102703	0.42553946	0.36424354
54_62	5/26/23	40	2000	2040	0.14	12	630	642	0.13	0.135	4456	0.01649	0.75557034	0.58435251	0.42073381	0.32086796
54_63	6/29/23	130	5800	5930	0.16	21	1200	1221	0.13	0.145	4490	0.01598151	0.7539562	0.58295671	0.41972883	0.34546114
54_64	8/7/23	56	3000	3056	0.16	57	2500	2557	0.13	0.145	4529	0.01541752	0.75210894	0.5813649	0.41858273	0.34640703
54_65	10/27/23	59	3500	3559	0.14	29	1700	1729	0.12	0.13	4610	0.01430895	0.74828676	0.57808949	0.41622443	0.3123315
54_66	11/24/23	47	2700	2747	0.16	10	490	500	0.15	0.155	4638	0.01394457	0.74697004	0.57696658	0.41541594	0.37312001
54_67	12/26/23	75	4100	4175	0.13	22	1200	1222	0.15	0.14	4670	0.0135395	0.74546805	0.57568897	0.41449606	0.33775955
54_68	5/28/24	67	3700	3767	0.15	25	1700	1725	0.13	0.14	4824	0.01174869	0.73828186	0.56962218	0.41012797	0.34135687
54_69	6/26/24	59	4400	4459	0.16	30	2400	2430	0.13	0.145	4853	0.01143897	0.73693639	0.56849426	0.40931587	0.35424965
54_70	8/23/24	35	2600	2635	0.15	21	1200	1221	0.13	0.14	4911	0.01084381	0.7342528	0.56625162	0.40770116	0.34338877

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
55_1	11/26/11	1900	2400	4300	0.34	890	1100	1990	0.4	0.37	257	0.78918374	0.98396466	1.00016191	0.37005991	0.99983812
55_2	1/19/12	820	1000	1820	0.58	710	980	1690	0.67	0.625	311	0.75088518	0.98062819	0.98567272	0.36469891	1.71374246
55_3	5/2/12	9.9	500	730	0.36	16	910	1400	0.57	0.465	415	0.68228321	0.97423425	0.95939901	0.35497764	1.30994168
55_4	5/10/12	13	580	860	0.39	12	760	1200	0.58	0.485	423	0.67727337	0.97374414	0.95746254	0.35426114	1.36904657
55_5	6/4/12	11	680	1000	0.36	15	960	1500	0.62	0.49	448	0.6618535	0.97221413	0.95148576	0.35204973	1.3918488
55_6	7/12/12	13	980	1600	0.57	19	1500	2400	0.58	0.575	486	0.63908502	0.96989312	0.94261323	0.3487669	1.64866564
55_7	8/6/12	16	1300	2200	0.51	20	1400	2200	0.58	0.545	511	0.62453461	0.96836916	0.93691197	0.34665743	1.57215729
55_8	8/30/12	20	2500	4000	0.47	13	820	1300	0.44	0.455	535	0.61087798	0.96690841	0.9315376	0.34466891	1.32010745
55_9	10/2/12	12	470	730	0.36	14	1100	2000	0.41	0.385	568	0.59258637	0.96490348	0.9243021	0.34199178	1.12575807
55_10	11/1/12	18	1300	2200	0.36	16	1100	1800	0.52	0.44	598	0.57643336	0.96308443	0.91787533	0.33961387	1.295589
55_11	12/20/12	15	970	1700	0.39	15	1300	2300	0.55	0.47	647	0.55099155	0.96012067	0.90767724	0.33584058	1.39947353
55_12	2/14/13	12	620	1200	0.43	12	740	1400	0.5	0.465	703	0.52328727	0.95674469	0.89645829	0.33168957	1.40191326
55_13	3/4/13	21	1900	3500	0.57	16	1300	2300	0.42	0.495	721	0.5146816	0.95566208	0.89294736	0.33039052	1.49822699
55_14	4/26/13	620	1200	1820	0.366	590	1200	1790	0.278	0.322	774	0.49015578	0.95248149	0.88286841	0.32666131	0.98573044
55_15	6/19/13	1400	3100	4500	0.358	590	1200	1790	0.294	0.326	828	0.46636885	0.94925178	0.87298199	0.32300334	1.0092775
55_16	6/25/13	2300	4800	7100	0.35	1100	2200	3300	0.258	0.304	834	0.46379816	0.9488936	0.87190655	0.32260542	0.94232762
55_17	7/8/13	1900	4000	5900	0.36	680	1400	2080	0.264	0.312	847	0.45827685	0.94811801	0.86959188	0.321749	0.9697
55_18	8/1/13	1300	2700	4000	0.32	860	1900	2760	0.26	0.29	871	0.44825575	0.94668781	0.86537354	0.32018821	0.90571729
55_19	9/10/13	930	2100	3030	0.332	750	1700	2450	0.25	0.291	911	0.43203852	0.94430894	0.85849762	0.31764412	0.91611959
55_20	10/1/13	2100	4600	6700	0.3	760	1700	2460	0.292	0.296	932	0.4237607	0.94306243	0.8549632	0.31633638	0.93571279
55_21	12/2/13	670	1600	2270	0.306	2500	5900	8400	0.3	0.303	994	0.40023531	0.93939183	0.84482028	0.3125835	0.96934098
55_22	1/9/14	490	1200	1690	0.27	490	1100	1590	0.258	0.264	1032	0.38646678	0.93714918	0.83881165	0.31036031	0.85062423
55_23	2/3/14	560	1400	1960	0.32	360	890	1250	0.26	0.29	1057	0.37766787	0.93567667	0.83494163	0.3089284	0.93872883
55_24	4/30/15	1100	3900	5000	0.27	910	3200	4110	0.29	0.28	1508	0.24927095	0.90950644	0.77487913	0.28670528	0.97661265
55_25	5/15/15	340	1200	1540	0.26	220	820	1040	0.24	0.25	1523	0.2458501	0.90864873	0.77315588	0.28606768	0.87391908
55_26	6/12/15	200	680	880	0.27	230	970	1200	0.22	0.245	1551	0.23958962	0.90704982	0.76997979	0.28489252	0.85997343
55_27	7/11/15	590	2200	2790	0.25	150	500	650	0.24	0.245	1580	0.23327357	0.90539678	0.76674489	0.28369561	0.86360166
55_28	8/17/15	540	2300	2840	0.21	260	990	1250	0.21	0.21	1617	0.2254563	0.9032921	0.76269608	0.28219755	0.74415955
55_29	9/5/15	740	2900	3640	0.22	330	1400	1730	0.21	0.215	1636	0.2215444	0.90221322	0.76065031	0.28144061	0.7639267
55_30	10/7/15	380	1600	1980	0.24	260	1200	1460	0.21	0.225	1668	0.21510873	0.90039907	0.75725464	0.28018422	0.8030431
55_31	12/1/15	340	1600	1940	0.2	340	1600	1940	0.19	0.195	1723	0.20448119	0.89728952	0.75155999	0.2780772	0.70124413
55_32	1/11/16	440	1900	2340	0.18	180	840	1020	0.17	0.175	1764	0.19690188	0.89497849	0.74742712	0.27654803	0.63280146
55_33	2/6/16	360	1800	2160	0.18	320	1400	1720	0.15	0.165	1790	0.19224173	0.89351603	0.74485419	0.27559605	0.59870234
55_34	4/29/16	110	530	640	0.23	230	1200	1430	0.19	0.21	1873	0.17809044	0.88886341	0.73687885	0.27264517	0.77023186
55_35	5/19/16	310	1500	1810	0.21	370	2100	2470	0.21	0.21	1893	0.17483923	0.88774592	0.73500932	0.27195345	0.77219098
55_36	6/8/16	180	850	1030	0.24	450	2500	2950	0.23	0.235	1913	0.17164739	0.88662984	0.73315935	0.27126896	0.86629889
55_37	7/9/16	230	1100	1330	0.2	270	1300	1570	0.18	0.19	1944	0.16681479	0.88490269	0.73032979	0.27022202	0.70312552
55_38	8/6/16	460	2500	2960	0.19	180	1000	1180	0.2	0.195	1972	0.16256692	0.88334557	0.72781273	0.26929071	0.72412449
55_39	9/3/16	330	1700	2030	0.19	360	1800	2160	0.17	0.18	2000	0.15842722	0.88179119	0.72533148	0.26837265	0.67070918
55_40	10/24/16	220	1300	1520	0.22	330	2000	2330	0.18	0.2	2051	0.15115602	0.87896702	0.72090124	0.26673346	0.7498122
55_41	12/6/16	570	3400	3970	0.22	230	1600	1830	0.18	0.2	2094	0.14528534	0.87659289	0.7172523	0.26538335	0.75362678
55_42	1/13/17	290	1700	1990	0.18	230	1600	1830	0.14	0.16	2132	0.14028736	0.87450016	0.71409097	0.26421366	0.60557051
55_43	2/15/17	180	1200	1380	0.19	220	1100	1320	0.14	0.165	2165	0.13608672	0.87268684	0.71139223	0.26321512	0.62686367
55_44	4/24/17	180	1300	1480	0.16	180	1200	1380	0.14	0.15	2233	0.12782328	0.86896216	0.70596253	0.26120614	0.5742591
55_45	5/15/17	350	2600	2950	0.2	180	1500	1680	0.16	0.18	2254	0.1253742	0.8678151	0.70432022	0.26059848	0.69071776
55_46	6/6/17	170	1200	1370	0.21	150	1100	1250	0.15	0.18	2276	0.12285881	0.86661505	0.70261663	0.25996815	0.6923925
55_47	7/13/17	130	1000	1130	0.15	170	1300	1470	0.12	0.135	2313	0.11874167	0.86460052	0.69978966	0.25892217	0.52139219
55_48	8/11/17	290	2100	2390	0.18	200	1600	1800	0.16	0.17	2342	0.11561141	0.86302484	0.69760655	0.25811443	0.65862262
55_49	9/1/17	230	1600	1830	0.15	140	1200	1340	0.12	0.135	2363	0.1133963	0.86188563	0.69604315	0.25753597	0.52419863
55_50	10/6/17	220	1900	2120	0.16	95	880	975	0.15	0.155	2398	0.10979838	0.85999027	0.69346929	0.25658364	0.60409152
55_51	12/1/17	220	1900	2120	0.16	140	1200	1340	0.14	0.15	2454	0.10427763	0.85696637	0.68943126	0.25508957	0.58802875
55_52	1/25/18	630	5400	6030	0.14	110	1200	1310	0.11	0.125	2509	0.09912575	0.85400682	0.68555748	0.25365627	0.49279287
55_53	2/12/18	40	410	450	0.13	54	580	634	0.1	0.115	2527	0.09749558	0.85304046	0.68430882	0.25319426	0.45419671
55_54	4/24/18	110	1100	1210	0.13	170	1600	1770	0.1	0.115	2598	0.09132273	0.84923936	0.67947184	0.25140458	0.45743001
55_55	5/10/18	140	1500	1640	0.17	73	890	963	0.14	0.155	2614	0.08998654	0.84838512	0.6784007	0.25100826	0.61750956
55_56	6/2/18	240	2300	2540	0.17	59	640	699	0.13	0.15	2637	0.08809993	0.84715864	0.67687275	0.25044292	0.59893888
55_57	7/14/18	360	3900	4260	0.19	110	1100	1210	0.13	0.16	2679	0.0847563	0.84492357	0.67411769	0.24942355	0.64147914
55_58	8/7/18	140	1600	1740	0.17	87	830	917	0.16	0.165	2703	0.08290295	0.84364904	0.67256325	0.2488484	0.66305429
55_59	9/2/18	350	4200	4550	0.12	160	1700	1860	0.1	0.11	2729	0.08094085	0.84227046	0.67089517	0.24823121	0.44313525
55_60	10/4/18	140	1600	1740	0.17	95	960	1055	0.14	0.155	2761	0.07858959	0.84057685	0.66886435	0.24747981	0.62631372
55_61	12/4/18	180	2200	2380	0.16	77	970	1047	0.14	0.15	2822	0.07429504	0.83735782	0.66505874	0.24607174	0.60957834
55_62	1/14/19	260	3100	3360	0.17	94	1200	1294	0.13	0.15	2863	0.07154122	0.83520114	0.66254753	0.24514258	0.61188879
55_63	2/1/19	120	1600	1720	0.17	70	780	850	0.15	0.16	2881	0.0703647	0.83425606	0.6614565	0.24473891	0.65375793
55_64	4/25/19	91	1200	1291	0.14	67	840	907	0.09	0.115	2964	0.06518501	0.82991201	0.65651271	0.2429097	0.47342695
55_65	5/10/19	74	890	964	0.17	79	1000	1079	0.13	0.15	2979	0.06429045	0.82912935	0.65563404	0.2425846	0.61834099
55_66	6/1/19	110	1400	1510	0.15	86	910	996	0.14	0.145	3001	0.06300059	0.8279828	0.65435326	0.24211071	0.59889958
55_67	7/14/19	44	660	704	0.17	72	970	1042	0.13	0.15	3044	0.06055374	0.82574638	0.65187655	0.24119432	0.62190519
55_68	8/10/19	75	1000	1075	0.14	130	1600	1730	0.12	0.13	3071	0.05906615	0.8243452	0.65033897	0.24062542	0.5402588
55_69	9/7/19	130	2100	2230	0.15	71	970	1041	0.12	0.135	3099	0.05756205	0.82289464	0.6487584	0.24004061	0.56240484
55_70	10/1/19	97	1500	1597	0.14	81	1200	1281	0.13	0.135	3123	0.05630335	0.82165334	0.64741469	0.23954344	0.56357211
55_71	12/4/19	60	940	1000	0.15	62	1100	1162	0.14	0.145	3187	0.05307974	0.81835234	0.64387989	0.23823556	0.6086413
55_72	1/28/20	72	1200	1272	0.16	65	910	975	0.14	0.15	3242	0.05045731	0.81552614	0.64089636	0.23713165	0.63256001
55_73	2/17/20	37	580	617	0.16	57	930	987	0.12	0.14	3262	0.04953617	0.81450086	0.63982341	0.23673466	0.59137939
55_74	7/16/20	110	2100	2210	0.14	41	660	701	0.12	0.13	3412	0.04314293	0.80685218	0.63196824	0.23382825	0.55596362
55_75	8/10/20	35	690	725	0.11	43	880	923	0.09	0.1	3437	0.04216067	0.8055844	0.63069036	0.23335543	0.42853084
55_76	9/29/20	84	1700	1784	0.15	47	900	947	0.12	0.135	3487	0.04026273	0.80305482	0.62815992	0.23241917	0.5808471
55_77	10/22/20	31	590	621	0.12	26	600	626	0.1	0.11	3510	0.03941861	0.80189388	0.62700697	0.23199258	0.4741531
55_78	11/10/20	49	830	879	0.13	220	4600	4820	0.12	0.125	3529	0.03873465	0.80093611	0.62605967	0.23164208	0.53962562
55_79	12/4/20	35	900	935	0.13	32	590	622	0.1	0.115	3553	0.03788765	0.79972793	0.62486962	0.23120176	0.49740106
55_80	1/23/21	29	740	769	0.09	44	1100	1144	0.06	0.075	3603	0.03618207	0.79721673	0.6224132	0.23029288	0.32567224
55_81	2/7/21	29	740	769	0.16	31	670	701	0.12	0.14	3618	0.03568552	0.79646491	0.62168217	0.2300224	0.60863637
55_82	4/23/21	31	850	881	0.07	34	860	894	0.07	0.07	3693	0.03330318	0.79271644	0.61806642	0.22868457	0.30609848
55_83	5/28/21	5.5	7.8	7.8	0.07	8.4	48	48	0.08	0.075	3728	0.03224651	0.79097319	0.61640086	0.22806832	0.32884883
55_84	6/8/21	35	1000	1035	0.14	33	960	993	0.12	0.13	3739	0.03192139	0.79042611	0.61588018	0.22787567	0.57048653
55_85	7/17/21	41	1500	1541	0.09	25	840	865	0.1	0.095	3778	0.03079488	0.78848949	0.61404463	0.22719651	0.41814022
55_86	8/27/21	77	2200	2277	0.13	31	830	861	0.12	0.125	3819	0.02965343	0.78645868	0.61213222	0.22648892	0.55190337
55_87	9/20/21	71	1700	1771	0.11	30	780	810	0.12	0.115	3843	0.029005	0.78527233	0.61102077	0.22607768	0.50867471
55_88	10/9/21	78	1800	1878	0.13	9.5	730	730	0.11	0.12	3862	0.02850174	0.78433441	0.61014498	0.22575364	0.53155289
55_89	12/19/21	9.8	390	399.8	0.14	22	610	632	0.12	0.13	3933	0.02669717	0.78083947	0.60690358	0.22455433	0.5789245
55_90	1/13/22	15	630	645	0.14	21	600	621	0.1	0.12	3958	0.02608934	0.77961256	0.60577368	0.22413626	0.5353886
55_91	2/6/22	32	960	992	0.14	32	860	892	0.11	0.125	3982	0.02551885	0.77843655	0.60469443	0.22373694	0.55869183
55_92	4/27/22	43	1200	1243	0.13	15	630	645	0.1	0.115	4062	0.02370578	0.77452929	0.60113431	0.2224197	0.51704054
55_93	5/18/22	21	620	641	0.12	43	1700	1743	0.11	0.115	4083	0.02325158	0.77350689	0.60020904	0.22207735	0.5178376
55_94	6/15/22	55	1700	1755	0.13	20	720	740	0.11	0.12	4111	0.02265949	0.77214579	0.59898117	0.22162303	0.54145996
55_95	7/1/22	31	1200	1231	0.09	56	1800	1856	0.06	0.075	4127	0.02232795	0.77136909	0.59828247	0.22136452	0.33880769
55_96	8/15/22	70	2600	2670	0.09	39	1200	1239	0.06	0.075	4172	0.02142126	0.76918882	0.59632862	0.22064159	0.33991778
55_97	9/14/22	56	1900	1956	0.08	36	1400	1436	0.07	0.075	4202	0.02083735	0.76773873	0.59503508	0.22016298	0.34065673
55_98	10/11/22	58	2200	2258	0.09	41	1600	1641	0.07	0.08	4229	0.02032545	0.76643599	0.59387693	0.21973446	0.3640758
55_99	12/17/22	39	1500	1539	0.13	27	1100	1127	0.11	0.12	4296	0.01910884	0.76321279	0.59102703	0.21868	0.54874702
55_100	1/11/23	31	1200	1231	0.13	59	2700	2759	0.1	0.115	4321	0.01867378	0.76201358	0.58997219	0.21828971	0.52682282
55_101	2/6/23	29	1100	1129	0.13	38	1700	1738	0.1	0.115	4347	0.01823182	0.7607684	0.58887996	0.21788558	0.52779995
55_102	4/24/23	23	1500	1523	0.12	50	2300	2350	0.1	0.11	4424	0.01698336	0.75709268	0.58567323	0.21669909	0.50761634
55_103	5/26/23	44	2000	2044	0.11	25	1300	1325	0.08	0.095	4456	0.01649	0.75557034	0.58435251	0.21621043	0.43938676
55_104	6/29/23	12	680	692	0.1	32	1700	1732	0.09	0.095	4490	0.01598151	0.7539562	0.58295671	0.21569398	0.44043881
55_105	7/18/23	64	3000	3064	0.11	40	1800	1840	0.1	0.105	4509	0.01570422	0.75305569	0.58217999	0.2154066	0.48745025
55_106	8/7/23	29	1700	1729	0.11	16	820	836	0.08	0.095	4529	0.01541752	0.75210894	0.5813649	0.21510501	0.44164475
55_107	9/6/23	55	2500	2555	0.11	54	2500	2554	0.08	0.095	4559	0.01499726	0.75069105	0.58014703	0.2146544	0.44257187
55_108	10/27/23	37	2000	2037	0.11	19	1400	1419	0.11	0.11	4610	0.01430895	0.74828676	0.57808949	0.21389311	0.51427556
55_109	12/26/23	23	1700	1723	0.14	13	690	703	0.12	0.13	4670	0.0135395	0.74546805	0.57568897	0.21300492	0.61031455
55_110	1/16/24	24	2000	2024	0.11	39	2200	2239	0.09	0.1	4691	0.01328008	0.74448401	0.57485379	0.2126959	0.4701548
55_111	2/1/24	15	1100	1115	0.11	18	970	988	0.11	0.11	4707	0.01308577	0.74373514	0.57421918	0.2124611	0.51774185
55_112	4/22/24	22	1700	1722	0.12	18	1200	1218	0.09	0.105	4788	0.01214486	0.73995552	0.57102862	0.21128059	0.49696946
55_113	5/28/24	28	1400	1428	0.13	23	1900	1923	0.12	0.125	4824	0.01174869	0.73828186	0.56962218	0.21076021	0.59309109
55_114	6/20/24	14	840	854	0.1	12	940	952	0.09	0.095	4847	0.01150237	0.73721456	0.56872725	0.21042908	0.45145851
55_115	7/5/24	12	480	492	0.11	17	1100	1117	0.09	0.1	4862	0.01134452	0.73651933	0.56814512	0.21021369	0.4757064
55_116	8/23/24	7	490	497	0.1	14	1100	1114	0.1	0.1	4911	0.01084381	0.7342528	0.56625162	0.2095131	0.47729713
55_117	9/27/24	14	1300	1314	0.13	8.4	860	860	0.08	0.105	4946	0.01049975	0.73263812	0.56490663	0.20901545	0.5023552

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
56_1	11/25/11	6300	8000	14300	0.6	3700	4500	8200	0.48	0.54	256	0.78991109	0.98402655	1.00043595	0.54023541	0.99956424
56_2	1/16/12	2800	3500	6300	0.59	1900	2600	4500	0.43	0.51	308	0.75296326	0.98081325	0.98646199	0.53268947	0.95740581
56_3	5/2/12	26	2800	4200	0.5	22	2300	3400	0.42	0.46	415	0.68228321	0.97423425	0.95939901	0.51807547	0.88790153
56_4	7/12/12	17	1500	2500	0.49	33	3200	5100	0.56	0.525	486	0.63908502	0.96989312	0.94261323	0.50901115	1.0314116
56_5	10/9/12	19	2100	3500	0.428	22	1800	3100	0.497	0.4625	575	0.58877731	0.96447873	0.92278981	0.4983065	0.92814363
56_6	11/1/12	17	1500	2600	0.42	18	1400	2300	0.34	0.38	598	0.57643336	0.96308443	0.91787533	0.49565268	0.76666588
56_7	12/20/12	23	2800	5200	0.41	22	1700	3000	0.47	0.44	647	0.55099155	0.96012067	0.90767724	0.49014571	0.89769224
56_8	5/9/13	1100	2100	3200	0.334	2200	4500	6700	0.444	0.389	787	0.48432069	0.95170297	0.88045374	0.47544502	0.81818082
56_9	6/19/13	1700	3500	5200	0.44	730	1500	2230	0.344	0.392	828	0.46636885	0.94925178	0.87298199	0.47141028	0.83154742
56_10	8/1/13	1200	2700	3900	0.368	1700	3800	5500	0.3264	0.3472	871	0.44825575	0.94668781	0.86537354	0.46730171	0.74298893
56_11	10/1/13	1900	4300	6200	0.33	1300	2900	4200	0.174	0.252	932	0.4237607	0.94306243	0.8549632	0.46188013	0.54583246
56_12	12/2/13	1200	2700	3900	0.402	1000	2400	3400	0.298	0.35	994	0.40023531	0.93939183	0.84482028	0.45620295	0.7672024
56_13	2/3/14	2400	6200	8600	0.31	1300	3400	4700	0.27	0.29	1057	0.37766787	0.93567667	0.83494163	0.45086848	0.64320309
56_14	5/10/15	700	2700	3400	0.32	810	3000	3810	0.26	0.29	1518	0.24698513	0.90893454	0.77372859	0.41781344	0.69408969
56_15	6/12/15	770	2800	3570	0.32	1000	3600	4600	0.27	0.295	1551	0.23958962	0.90704982	0.76997979	0.41578909	0.70949433
56_16	8/17/15	450	1800	2250	0.27	860	3200	4060	0.22	0.245	1617	0.2254563	0.9032921	0.76269608	0.41185588	0.59486828
56_17	10/16/15	700	2900	3600	0.24	1100	4500	5600	0.21	0.225	1677	0.21333263	0.8998895	0.75631068	0.40840777	0.55091999
56_18	12/1/15	490	2300	2790	0.2	700	3100	3800	0.18	0.19	1723	0.20448119	0.89728952	0.75155999	0.40584239	0.46816203
56_19	1/9/16	600	2700	3300	0.2	410	1800	2210	0.18	0.19	1762	0.197265	0.89509108	0.74762656	0.40371834	0.47062514
56_20	5/19/16	490	2500	2990	0.26	430	2300	2730	0.21	0.235	1893	0.17483923	0.88774592	0.73500932	0.39690503	0.59208118
56_21	6/8/16	440	2300	2740	0.26	470	2500	2970	0.22	0.24	1913	0.17164739	0.88662984	0.73315935	0.39590605	0.60620443
56_22	8/12/16	850	4900	5750	0.25	620	3300	3920	0.23	0.24	1978	0.16167083	0.88301225	0.72727805	0.39273015	0.61110664
56_23	10/21/16	570	3200	3770	0.25	510	3100	3610	0.21	0.23	2048	0.15157435	0.8791329	0.72115872	0.38942571	0.59061329
56_24	12/6/16	630	3900	4530	0.19	400	2400	2800	0.17	0.18	2094	0.14528534	0.87659289	0.7172523	0.38731624	0.46473651
56_25	1/27/17	620	3800	4420	0.16	380	2500	2880	0.14	0.15	2146	0.13848966	0.87373042	0.71294083	0.38498805	0.38962248
56_26	5/15/17	230	1600	1830	0.21	330	2500	2830	0.17	0.19	2254	0.1253742	0.8678151	0.70432022	0.38033292	0.49956233
56_27	6/22/17	440	3100	3540	0.18	250	1900	2150	0.17	0.175	2292	0.12106119	0.86574333	0.70138835	0.37874971	0.46204656
56_28	8/11/17	430	2900	3330	0.17	210	1400	1610	0.17	0.17	2342	0.11561141	0.86302484	0.69760655	0.37670754	0.45127846
56_29	10/25/17	230	2000	2230	0.18	320	2600	2920	0.17	0.175	2417	0.10789326	0.85896311	0.69208836	0.37372771	0.46825535
56_30	12/3/17	290	2400	2690	0.17	93	730	823	0.14	0.155	2456	0.10408568	0.85685857	0.68928882	0.37221597	0.41642491
56_31	1/29/18	190	1500	1690	0.13	240	2100	2340	0.12	0.125	2513	0.09876115	0.85379198	0.6852792	0.37005077	0.33779149
56_32	5/8/18	190	1800	1990	0.17	360	3600	3960	0.16	0.165	2612	0.09015249	0.84849185	0.67853422	0.36640848	0.45031709
56_33	6/2/18	210	2100	2310	0.2	120	1100	1220	0.19	0.195	2637	0.08809993	0.84715864	0.67687275	0.36551128	0.53349926
56_34	8/12/18	200	2100	2300	0.18	190	1800	1990	0.19	0.185	2708	0.08252196	0.84338375	0.67224119	0.36301024	0.50962749
56_35	10/5/18	190	2000	2190	0.19	150	1500	1650	0.18	0.185	2762	0.07851722	0.84052398	0.66880127	0.36115269	0.51224871
56_36	11/3/18	220	2600	2820	0.17	120	1400	1520	0.16	0.165	2791	0.07644736	0.83899217	0.66698216	0.36017037	0.45811653
56_37	12/1/18	210	2500	2710	0.17	170	1800	1970	0.17	0.17	2819	0.07450065	0.83751584	0.66524394	0.35923173	0.47323214
56_38	5/6/19	280	3500	3780	0.17	200	2500	2700	0.15	0.16	2975	0.06452779	0.82933799	0.65586792	0.35416868	0.45176214
56_39	6/2/19	120	1600	1720	0.16	110	1500	1610	0.15	0.155	3002	0.06294258	0.82793072	0.65429526	0.35331944	0.43869649
56_40	8/10/19	150	2200	2350	0.15	89	1300	1389	0.14	0.145	3071	0.05906615	0.8243452	0.65033897	0.35118305	0.41289009
56_41	10/5/19	260	4100	4360	0.16	200	3200	3400	0.14	0.15	3127	0.05609626	0.82144664	0.64719172	0.34948353	0.42920478
56_42	11/1/19	100	1300	1400	0.14	120	1700	1820	0.14	0.14	3154	0.05471817	0.82005276	0.64569385	0.34867468	0.40152041
56_43	12/3/19	110	1700	1810	0.16	76	1200	1276	0.15	0.155	3186	0.05312866	0.81840382	0.64393459	0.34772468	0.44575496
56_44	8/10/20	110	2200	2310	0.13	32	590	622	0.1	0.115	3437	0.04216067	0.8055844	0.63069036	0.34057279	0.33766643
56_45	10/6/20	110	2200	2310	0.15	120	2600	2720	0.13	0.14	3494	0.04000393	0.80270131	0.6278083	0.33901648	0.41295928
56_46	11/10/20	89	1600	1689	0.12	130	2600	2730	0.12	0.12	3529	0.03873465	0.80093611	0.62605967	0.33807222	0.35495374
56_47	12/6/20	60	1300	1360	0.13	84	1900	1984	0.12	0.125	3555	0.0378179	0.79962733	0.62477077	0.33737622	0.37050626
56_48	5/27/21	53	1500	1553	0.08	230	6400	6630	0.13	0.105	3727	0.03227623	0.79102295	0.61644826	0.33288206	0.31542703
56_49	6/8/21	54	1300	1354	0.15	110	3200	3310	0.13	0.14	3739	0.03192139	0.79042611	0.61588018	0.3325753	0.4209573
56_50	8/27/21	19	430	449	0.12	75	2000	2075	0.12	0.12	3819	0.02965343	0.78645868	0.61213222	0.3305514	0.36302978
56_51	10/9/21	51	1400	1451	0.15	31	810	841	0.12	0.135	3862	0.02850174	0.78433441	0.61014498	0.32947829	0.40973868
56_52	11/19/21	39	1100	1139	0.13	19	580	599	0.12	0.125	3903	0.02744529	0.7823143	0.60826725	0.32846431	0.38055884
56_53	12/19/21	26	960	986	0.14	44	1800	1844	0.14	0.14	3933	0.02669717	0.78083947	0.60690358	0.32772793	0.4271836
56_54	5/16/22	59	2100	2159	0.13	36	1100	1136	0.11	0.12	4081	0.02329446	0.7736042	0.600297	0.32416038	0.37018713
56_55	6/7/22	23	590	613	0.14	25	930	955	0.12	0.13	4103	0.0228271	0.77253443	0.59933132	0.32363891	0.40168223
56_56	8/15/22	16	520	536	0.11	340	13000	13340	0.12	0.115	4172	0.02142126	0.76918882	0.59632862	0.32201746	0.3571235
56_57	10/11/22	80	3100	3180	0.12	45	1700	1745	0.11	0.115	4229	0.02032545	0.76643599	0.59387693	0.32069354	0.3585978
56_58	11/8/22	45	1500	1545	0.12	70	2100	2170	0.13	0.125	4257	0.01980787	0.76508733	0.59268181	0.32004818	0.3905662
56_59	12/17/22	29	900	929	0.12	20	1000	1020	0.12	0.12	4296	0.01910884	0.76321279	0.59102703	0.3191546	0.37599333
56_60	5/12/23	22	1100	1122	0.11	36	1500	1536	0.1	0.105	4442	0.01670406	0.75623599	0.58492948	0.31586192	0.33242374
56_61	6/27/23	47	2100	2147	0.12	9.1	350	350	0.12	0.12	4488	0.01601098	0.75405106	0.58303861	0.31484085	0.38114495
56_62	8/26/23	26	1100	1126	0.11	160	9200	9360	0.12	0.115	4548	0.01515001	0.75121063	0.58059293	0.31352018	0.36680254
56_63	10/27/23	30	1500	1530	0.11	19	1300	1319	0.1	0.105	4610	0.01430895	0.74828676	0.57808949	0.31216832	0.336357
56_64	11/27/23	44	2100	2144	0.13	16	780	796	0.12	0.125	4641	0.01390609	0.7468291	0.57684655	0.31149714	0.4012878
56_65	12/26/23	21	1400	1421	0.13	35	2000	2035	0.12	0.125	4670	0.0135395	0.74546805	0.57568897	0.31087204	0.4020947
56_66	5/28/24	15	900	915	0.11	15	1100	1115	0.12	0.115	4824	0.01174869	0.73828186	0.56962218	0.30759598	0.37386705
56_67	6/20/24	13	1100	1113	0.1	9.3	510	510	0.12	0.11	4847	0.01150237	0.73721456	0.56872725	0.30711272	0.35817468
56_68	8/23/24	14	990	1004	0.11	87	5800	5887	0.1	0.105	4911	0.01084381	0.7342528	0.56625162	0.30577587	0.34338877

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
57_1	11/25/11	420	540	960	0.18	870	1000	1870	0.16	0.17	256	0.78991109	0.98402655	1.00043595	0.17007411	0.99956424
57_2	1/17/12	930	1200	2130	0.29	550	740	1290	0.27	0.28	309	0.75226993	0.98075156	0.9861987	0.16765378	1.67010849
57_3	2/28/12	1100	1500	2600	0.24	840	1100	1940	0.26	0.25	351	0.72371926	0.97816403	0.97532048	0.16580448	1.50780001
57_4	5/5/12	12	620	950	0.21	12	730	1000	0.18	0.195	418	0.68040019	0.97405043	0.95867147	0.16297415	1.19650878
57_5	7/17/12	8.5	290	510	0.23	11	410	670	0.24	0.235	491	0.63614807	0.96958814	0.94146446	0.16004896	1.46830071
57_6	10/9/12	9	530	890	0.234	12	540	880	0.225	0.2295	575	0.58877731	0.96447873	0.92278981	0.15687427	1.46295503
57_7	11/19/12	5.2	49	94	0.24	10	410	720	0.23	0.235	616	0.56695368	0.96199464	0.91408662	0.15539473	1.51227784
57_8	12/20/12	7.4	270	500	0.21	7.9	220	400	0.23	0.22	647	0.55099155	0.96012067	0.90767724	0.15430513	1.4257465
57_9	5/9/13	330	660	990	0.198	210	440	650	0.194	0.196	787	0.48432069	0.95170297	0.88045374	0.14967714	1.30948523
57_10	6/18/13	120	220	340	0.134	240	500	740	0.186	0.16	827	0.46679868	0.94931149	0.87316167	0.14843748	1.07789485
57_11	8/21/13	110	280	390	0.128	150	340	490	0.144	0.136	891	0.44007244	0.94549763	0.86191174	0.146525	0.92816928
57_12	10/2/13	77	190	267	0.124	270	610	880	0.11	0.117	933	0.4233705	0.94300311	0.85479616	0.14531535	0.80514551
57_13	12/3/13	140	310	450	0.18	240	550	790	0.202	0.191	995	0.39986677	0.93933275	0.84466017	0.14359223	1.33015555
57_14	2/4/14	99	270	369	0.132	320	850	1170	0.19	0.161	1058	0.37732012	0.93561782	0.83478818	0.14191399	1.13448998
57_15	5/10/15	64	260	324	0.14	250	950	1200	0.13	0.135	1518	0.24698513	0.90893454	0.77372859	0.13153386	1.02635169
57_16	6/11/15	72	280	352	0.13	170	600	770	0.15	0.14	1550	0.23981044	0.90710688	0.77009233	0.1309157	1.06939049
57_17	8/8/15	130	570	700	0.13	210	740	950	0.13	0.13	1608	0.22733335	0.9038036	0.76367296	0.1298244	1.00135257
57_18	10/18/15	49	230	279	0.11	430	1800	2230	0.13	0.12	1679	0.21293993	0.8997763	0.75610156	0.12853726	0.9335814
57_19	12/5/15	95	540	635	0.1	150	540	690	0.13	0.115	1727	0.20372908	0.89706379	0.75115263	0.12769595	0.90057674
57_20	1/10/16	68	330	398	0.1	250	1200	1450	0.11	0.105	1763	0.19708336	0.89503478	0.74752681	0.12707956	0.82625406
57_21	5/21/16	54	360	414	0.11	110	640	750	0.16	0.135	1895	0.1745174	0.88763425	0.73482345	0.12491999	1.08069177
57_22	6/22/16	52	290	342	0.1	120	600	720	0.13	0.115	1927	0.16944783	0.88584942	0.73187584	0.12441889	0.92429693
57_23	8/13/16	54	330	384	0.11	260	1500	1760	0.13	0.12	1979	0.16152196	0.88295671	0.7271891	0.12362215	0.97069986
57_24	10/25/16	37	250	287	0.12	430	2700	3130	0.13	0.125	2052	0.15101683	0.87891174	0.72081549	0.12253863	1.02008645
57_25	12/11/16	67	350	417	0.12	120	770	890	0.14	0.13	2099	0.14461767	0.87631725	0.71683299	0.12186161	1.06678389
57_26	1/10/17	44	270	314	0.09	140	850	990	0.11	0.1	2129	0.14067561	0.8746652	0.71433843	0.12143753	0.82346863
57_27	5/14/17	42	340	382	0.1	88	590	678	0.12	0.11	2253	0.12548975	0.86786969	0.70439807	0.11974767	0.91859824
57_28	6/9/17	37	280	317	0.1	120	950	1070	0.13	0.115	2279	0.12251973	0.86645154	0.70238565	0.11940556	0.96310423
57_29	8/28/17	38	270	308	0.09	230	1800	2030	0.11	0.1	2359	0.11381493	0.86210251	0.69633982	0.11837777	0.8447532
57_30	10/27/17	34	270	304	0.09	49	420	469	0.11	0.1	2419	0.10769465	0.85885506	0.69194365	0.11763042	0.85012022
57_31	12/5/17	14	130	144	0.09	50	430	480	0.11	0.1	2458	0.10389408	0.85675079	0.68914651	0.11715491	0.85357074
57_32	1/29/18	36	270	306	0.07	100	880	980	0.08	0.075	2513	0.09876115	0.85379198	0.6852792	0.11649746	0.64379084
57_33	5/12/18	56	440	496	0.09	150	1500	1650	0.11	0.1	2616	0.08982089	0.8482784	0.67826729	0.11530544	0.86726178
57_34	6/3/18	23	290	313	0.09	36	310	346	0.12	0.105	2638	0.08801881	0.84710536	0.67680663	0.11505713	0.91259014
57_35	8/12/18	38	440	478	0.1	85	840	925	0.13	0.115	2708	0.08252196	0.84338375	0.67224119	0.114281	1.00629149
57_36	10/7/18	40	400	440	0.09	67	800	867	0.12	0.105	2764	0.07837269	0.84041825	0.66867519	0.11367478	0.92368771
57_37	11/4/18	43	440	483	0.1	56	680	736	0.13	0.115	2792	0.07637696	0.8389394	0.66691978	0.11337636	1.01432078
57_38	12/2/18	30	380	410	0.1	50	590	640	0.12	0.11	2820	0.07443205	0.83746316	0.66518219	0.11308097	0.97275429
57_39	5/7/19	22	230	252	0.09	66	860	926	0.11	0.1	2976	0.06446838	0.82928583	0.65580942	0.1114876	0.89696072
57_40	6/7/19	12	150	162	0.1	41	500	541	0.12	0.11	3007	0.06265332	0.82767038	0.65400557	0.11118095	0.98937815
57_41	8/26/19	12	170	182	0.08	64	870	934	0.1	0.09	3087	0.05820192	0.823516	0.64943407	0.11040379	0.81518939
57_42	10/5/19	15	200	215	0.08	99	1700	1799	0.11	0.095	3127	0.05609626	0.82144664	0.64719172	0.11002259	0.86345902
57_43	11/10/19	8.2	140	148.2	0.09	32	510	542	0.11	0.1	3163	0.05426637	0.81958866	0.64519733	0.10968355	0.91171378
57_44	12/1/19	10	130	140	0.09	33	460	493	0.1	0.095	3184	0.05322664	0.81850678	0.64404404	0.10948749	0.86767906
57_45	8/14/20	8.9	160	168.9	0.07	33	660	693	0.09	0.08	3441	0.0420056	0.80538174	0.63048669	0.10718274	0.74638885
57_46	10/3/20	6.4	90	90	0.07	27	460	487	0.1	0.085	3491	0.04011464	0.8028528	0.62795891	0.10675302	0.79623044
57_47	11/9/20	9	140	140	0.07	18	330	348	0.1	0.085	3528	0.03877035	0.80098649	0.62610942	0.1064386	0.79858246
57_48	12/20/20	10	240	250	0.07	26	470	496	0.09	0.08	3569	0.03733329	0.79892349	0.62408023	0.10609364	0.75405086
57_49	5/27/21	27	920	947	0.09	25	800	825	0.11	0.1	3727	0.03227623	0.79102295	0.61644826	0.1047962	0.95423303
57_50	6/9/21	7.1	8.6		0.07	7.7	160	160	0.05	0.06	3740	0.031892	0.79037639	0.61583292	0.1046916	0.57311191
57_51	8/27/21	7.7	110	110	0.07	7.9	7.7		0.09	0.08	3819	0.02965343	0.78645868	0.61213222	0.10406248	0.76876894
57_52	10/9/21	4.8	56	56	0.06	6.7	18	18	0.11	0.085	3862	0.02850174	0.78433441	0.61014498	0.10372465	0.81947737
57_53	11/17/21	8	140	140	0.08	8.5	70	70	0.1	0.09	3901	0.0274959	0.78241272	0.60835847	0.10342094	0.87022996
57_54	12/26/21	7.8	100	100	0.07	7.9	61	61	0.11	0.09	3940	0.02652557	0.78049574	0.60658662	0.10311973	0.87277191
57_55	5/17/22	8.7	120	120	0.07	9	120	120	0.09	0.08	4082	0.02327301	0.77355555	0.60025302	0.10204301	0.78398312
57_56	6/8/22	9	160	160	0.07	7.2	62	62	0.1	0.085	4104	0.02280608	0.77248584	0.59928752	0.10187888	0.83432406
57_57	8/15/22	9.5	140	140	0.06	8	9.6	9.6	0.08	0.07	4172	0.02142126	0.76918882	0.59632862	0.10137587	0.69049965
57_58	10/10/22	7.2	83	83	0.06	8.3	200	200	0.05	0.055	4228	0.02034418	0.7664842	0.59391972	0.10096635	0.54473593
57_59	11/8/22	8	66	66	0.07	9.2	220	220	0.09	0.08	4257	0.01980787	0.76508733	0.59268181	0.10075591	0.7939981
57_60	12/19/22	8.4	28	28	0.07	9.3	130	130	0.1	0.085	4298	0.01907367	0.76311678	0.59094248	0.10046022	0.84610604
57_61	5/17/23	7.4	67	67	0.06	6.2	100	100	0.08	0.07	4447	0.01662729	0.75599819	0.58472327	0.09940296	0.70420441
57_62	6/29/23	8.9	35	35	0.06	9.1	110	110	0.09	0.075	4490	0.01598151	0.7539562	0.58295671	0.09910264	0.75679114
57_63	8/7/23	6.2	120	120	0.06	8.9	240	240	0.09	0.075	4529	0.01541752	0.75210894	0.5813649	0.09883203	0.75886327
57_64	10/25/23	7.8	150	150	0.07	9	22	22	0.09	0.08	4608	0.01433533	0.7483809	0.57816988	0.09828888	0.81392728
57_65	11/27/23	9.8	390	390	0.09	7.6	28	28	0.09	0.09	4641	0.01390609	0.7468291	0.57684655	0.09806391	0.9177688
57_66	12/26/23	9	220	220	0.08	9.4	400	400	0.12	0.1	4670	0.0135395	0.74546805	0.57568897	0.09786712	1.02179358
57_67	5/20/24	7.8	160	160	0.07	8	210	210	0.09	0.08	4816	0.0118356	0.73865346	0.56993411	0.0968888	0.82568883
57_68	6/7/24	8.7	10	10	0.07	5.4	140	140	0.07	0.07	4834	0.01164095	0.73781763	0.56923273	0.09676956	0.72336793
57_69	8/22/24	7.8	180	180	0.06	5.2	43	43	0.09	0.075	4910	0.01085381	0.73429898	0.56629014	0.09626932	0.77906437

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
58_1	11/24/11	510	630	1140	0.18	190	220	410	0.17	0.175	255	0.79063912	0.98408845	1.00071021	0.17512429	0.99929029
58_2	1/17/12	670	880	1550	0.15	180	230	410	0.16	0.155	309	0.75226993	0.98075156	0.9861987	0.17258477	0.89810936
58_3	5/5/12	7.6	230	340	0.2	6	140	190	0.14	0.17	418	0.68040019	0.97405043	0.95867147	0.16776751	1.01330707
58_4	7/18/12	7.4	78	120	0.15	5.9	160	230	0.17	0.16	492	0.6355623	0.96952715	0.94123522	0.16471616	0.97136794
58_5	10/16/12	15	470	750	0.14	7.5	190	300	0.14	0.14	582	0.58499273	0.96405416	0.9212853	0.16122493	0.86835207
58_6	11/21/12	9.4	220	390	0.16	8.2	250	430	0.14	0.15	618	0.56591005	0.96187363	0.91366873	0.15989203	0.93813308
58_7	12/19/12	12	340	600	0.15	9.6	160	290	0.12	0.135	646	0.55149937	0.96018107	0.90788174	0.1588793	0.8497016
58_8	5/8/13	160	320	480	0.1275	110	210	320	0.116	0.12175	786	0.48476707	0.95176283	0.8806387	0.15411177	0.79001103
58_9	6/18/13	100	190	290	0.112	50	110	160	0.116	0.114	827	0.46679868	0.94931149	0.87316167	0.15280329	0.74605722
58_10	8/8/13	47	110	157	0.088	110	220	330	0.088	0.088	878	0.44537443	0.94627108	0.86415643	0.15122738	0.58190522
58_11	10/3/13	50	110	160	0.11	66	150	216	0.1	0.105	934	0.42298066	0.9429438	0.85462924	0.14956012	0.70205882
58_12	12/4/13	39	92	131	0.106	91	240	331	0.13	0.118	996	0.39949858	0.93927366	0.84450017	0.14778753	0.79844355
58_13	5/14/15	21	76	97	0.1	40	150	190	0.11	0.105	1522	0.24607669	0.90870588	0.77327029	0.1353223	0.77592532
58_14	6/12/15	39	160	199	0.1	73	290	363	0.1	0.1	1551	0.23958962	0.90704982	0.76997979	0.13474646	0.7421345
58_15	8/4/15	27	120	147	0.1	86	310	396	0.1	0.1	1604	0.2281726	0.90403102	0.76410876	0.13371903	0.74783669
58_16	10/15/15	23	110	133	0.1	54	280	334	0.09	0.095	1676	0.21352924	0.89994611	0.75641532	0.13237268	0.71767074
58_17	12/2/15	92	440	532	0.08	69	330	399	0.08	0.08	1724	0.2042929	0.89723309	0.75145806	0.13150516	0.60834114
58_18	1/6/16	28	120	148	0.09	56	260	316	0.09	0.09	1759	0.19781094	0.89526	0.74792613	0.13088707	0.68761565
58_19	5/16/16	23	110	133	0.08	23	150	173	0.11	0.095	1890	0.1753231	0.88791346	0.73528849	0.12867549	0.73829136
58_20	6/7/16	15	73	88	0.1	40	230	270	0.07	0.085	1912	0.17180559	0.88668561	0.73325139	0.12831899	0.66241168
58_21	8/10/16	47	180	227	0.09	46	240	286	0.1	0.095	1976	0.16196897	0.88312334	0.7274561	0.12730482	0.74624042
58_22	10/21/16	17	93	110	0.08	34	250	284	0.1	0.09	2048	0.15157435	0.8791329	0.72115872	0.12620278	0.71313804
58_23	12/16/16	21	90	111	0.08	46	280	326	0.08	0.08	2104	0.14395307	0.87604169	0.7164147	0.12537257	0.6380981
58_24	1/28/17	31	210	241	0.07	31	210	241	0.07	0.07	2147	0.13836214	0.87367546	0.71285898	0.12475032	0.5611208
58_25	5/2/17	22	170	192	0.09	30	230	260	0.1	0.095	2241	0.12688471	0.86852501	0.70533501	0.12343363	0.7696444
58_26	6/7/17	24	230	254	0.09	33	220	253	0.09	0.09	2277	0.12274568	0.86656054	0.7025396	0.12294443	0.73203804
58_27	8/27/17	27	190	217	0.07	34	280	314	0.09	0.08	2358	0.11391983	0.86215673	0.69641407	0.12187246	0.65642392
58_28	10/9/17	11	120	131	0.08	23	260	283	0.09	0.085	2401	0.10949535	0.85982801	0.69325049	0.12131884	0.70063316
58_29	12/14/17	40	220	260	0.06	18	180	198	0.07	0.065	2467	0.10303625	0.85626592	0.68850756	0.12048882	0.53946912
58_30	1/9/18	17	170	187	0.08	28	230	258	0.07	0.075	2493	0.10059765	0.85486672	0.68667523	0.12016817	0.62412536
58_31	5/11/18	22	150	172	0.09	8	95	103	0.09	0.09	2615	0.08990368	0.84833175	0.67833398	0.11870845	0.75816003
58_32	6/4/18	24	210	234	0.08	29	190	219	0.08	0.08	2639	0.08793776	0.84705208	0.67674053	0.11842959	0.67550684
58_33	8/10/18	16	160	176	0.1	20	190	210	0.08	0.09	2706	0.08267414	0.84348986	0.67236994	0.11766474	0.76488505
58_34	10/3/18	20	170	190	0.08	21	200	221	0.09	0.085	2760	0.07866202	0.84062972	0.66892745	0.1170623	0.72610907
58_35	11/9/18	18	190	208	0.07	24	240	264	0.08	0.075	2797	0.07602597	0.8386756	0.6666082	0.11665643	0.64291353
58_36	12/17/18	16	170	186	0.06	15	190	205	0.06	0.06	2835	0.07341059	0.83667339	0.66425853	0.11624524	0.51615016
58_37	5/6/19	14	180	194	0.08	23	300	323	0.08	0.08	2975	0.06452779	0.82933799	0.65586792	0.11477689	0.69700444
58_38	6/5/19	15	150	165	0.07	14	170	184	0.05	0.06	3005	0.06276886	0.8277745	0.65412139	0.11447124	0.52414911
58_39	8/8/19	8.6	100	108.6	0.07	19	220	239	0.07	0.07	3069	0.05917507	0.82444891	0.65045241	0.11382917	0.61495659
58_40	10/3/19	9.3	120	129.3	0.08	20	200	220	0.07	0.075	3125	0.05619971	0.82154998	0.64730317	0.11327805	0.66208764
58_41	11/2/19	7.1	110	117.1	0.07	15	190	205	0.08	0.075	3155	0.05466779	0.82000118	0.64563862	0.11298676	0.6637946
58_42	12/11/19	5.8	29	29	0.06	8.6	130	138.6	0.05	0.055	3194	0.05273855	0.8179921	0.64349744	0.11261205	0.48840243
58_43	8/11/20	8.6	20	20	0.07	5.9	120	125.9	0.06	0.065	3438	0.04212185	0.80553373	0.63063942	0.1103619	0.58897138
58_44	10/2/20	7.9	24	24	0.06	11	200	211	0.07	0.065	3490	0.04015161	0.8029033	0.62800914	0.1099016	0.59143816
58_45	11/5/20	7.5	17	17	0.05	8	160	168	0.06	0.055	3524	0.03891348	0.80118804	0.62630852	0.10960399	0.50180655
58_46	12/6/20	6	19	19	0.06	9.5	160	169.5	0.07	0.065	3555	0.0378179	0.79962733	0.62477077	0.10933488	0.59450376
58_47	5/28/21	7.5	11	11	0.05	7.4	72	72	0.07	0.06	3728	0.03224651	0.79097319	0.61640086	0.10787015	0.55622431
58_48	6/9/21	9.4	41	41	0.08	8.5	290	290	0.08	0.08	3740	0.031892	0.79037639	0.61583292	0.10777076	0.74231637
58_49	8/27/21	7.6	87	87	0.06	17	470	487	0.06	0.06	3819	0.02965343	0.78645868	0.61213222	0.10712314	0.56010308
58_50	10/10/21	6.2	40	40	0.07	7.7	190	190	0.07	0.07	3863	0.02847549	0.78428508	0.61009898	0.10676732	0.65563132
58_51	11/19/21	9	37	37	0.07	7	150	150	0.06	0.065	3903	0.02744529	0.7823143	0.60826725	0.10644677	0.61063385
58_52	12/19/21	8.3	39	39	0.07	7.1	85	92.1	0.07	0.07	3933	0.02669717	0.78083947	0.60690358	0.10620813	0.65908327
58_53	5/18/22	5.3	17	17	0.05	6.8	130	130	0.06	0.055	4083	0.02325158	0.77350689	0.60020904	0.10503658	0.52362709
58_54	6/14/22	7.4	23	23	0.06	6.4	92	92	0.06	0.06	4110	0.02268037	0.77219436	0.59902491	0.10482936	0.57235874
58_55	8/5/22	8.3	23	23	0.06	7.3	130	130	0.07	0.065	4162	0.02161951	0.76967279	0.5967614	0.10443324	0.62240717
58_56	10/11/22	7	35	35	0.05	9	300	300	0.06	0.055	4229	0.02032545	0.76643599	0.59387693	0.10392846	0.52921017
58_57	11/8/22	8.9	45	45	0.06	8.2	180	180	0.08	0.07	4257	0.01980787	0.76508733	0.59268181	0.10371932	0.67489839
58_58	12/19/22	9.7	76	76	0.06	7.7	110	110	0.07	0.065	4298	0.01907367	0.76311678	0.59094248	0.10341493	0.62853592
58_59	5/11/23	8	23	23	0.06	8.6	120	120	0.07	0.065	4441	0.01671945	0.75628356	0.58497074	0.10236988	0.63495239
58_60	6/15/23	8	13	13	0.06	8.4	150	150	0.07	0.065	4476	0.01618896	0.75462043	0.58353053	0.10211784	0.63651952
58_61	8/30/23	8.4	18	18	0.07	8.2	240	240	0.08	0.075	4552	0.01509429	0.75102165	0.5804307	0.10157537	0.73836796
58_62	10/16/23	8.2	23	23	0.06	8.4	120	120	0.07	0.065	4599	0.01445468	0.74880468	0.57853192	0.10124309	0.64201915
58_63	11/27/23	8.4	15	15	0.08	8	220	220	0.07	0.075	4641	0.01390609	0.7468291	0.57684655	0.10094815	0.7429557
58_64	12/22/23	6.7	26	26	0.06	9	170	170	0.07	0.065	4666	0.01358948	0.74565564	0.57584834	0.10077346	0.6450111
58_65	5/2/24	6.4	24	24	0.07	8.7	200	200	0.07	0.07	4798	0.01203349	0.73949024	0.57063723	0.09986152	0.70097073
58_66	6/10/24	4.1	15	15	0.07	6.2	140	140	0.07	0.07	4837	0.01160883	0.73767842	0.56911601	0.0995953	0.7028444
58_67	8/22/24	6.5	32	32	0.06	9.2	130	130	0.07	0.065	4910	0.01085381	0.73429898	0.56629014	0.09910077	0.65589801

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
59_1	11/24/11	400	540	940	0.17	350	450	800	0.15	0.16	255	0.79063912	0.98408845	1.00071021	0.16011363	0.99929029
59_2	1/17/12	540	700	1240	0.19	210	310	520	0.14	0.165	309	0.75226993	0.98075156	0.9861987	0.15779179	1.04568177
59_3	5/5/12	7.1	180	270	0.16	8.7	250	390	0.15	0.155	418	0.68040019	0.97405043	0.95867147	0.15338743	1.01051302
59_4	7/17/12	7	170	270	0.14	7.6	210	340	0.14	0.14	491	0.63614807	0.96958814	0.94146446	0.15063431	0.92940311
59_5	10/9/12	6.6	150	260	0.15	7.5	290	480	0.15	0.15	575	0.58877731	0.96447873	0.92278981	0.14764637	1.015941
59_6	11/19/12	8.1	170	280	0.14	7.6	190	340	0.16	0.15	616	0.56695368	0.96199464	0.91408662	0.14625386	1.02561396
59_7	12/19/12	7.8	280	520	0.15	7.6	150	270	0.14	0.145	646	0.55149937	0.96018107	0.90788174	0.14526108	0.99820269
59_8	5/9/13	130	280	410	0.154	170	270	440	0.124	0.139	787	0.48432069	0.95170297	0.88045374	0.1408726	0.98670715
59_9	6/18/13	150	300	450	0.156	160	340	500	0.142	0.149	827	0.46679868	0.94931149	0.87316167	0.13970587	1.06652643
59_10	8/2/13	80	180	260	0.118	280	620	900	0.122	0.12	872	0.447843	0.94662827	0.86519931	0.13843189	0.86685229
59_11	10/2/13	110	260	370	0.08	210	450	660	0.08	0.08	933	0.4233705	0.94300311	0.85479616	0.13676739	0.58493478
59_12	12/3/13	110	260	370	0.142	52	130	182	0.124	0.133	995	0.39986677	0.93933275	0.84466017	0.13514563	0.98412359
59_13	2/4/14	82	260	342	0.14	190	460	650	0.11	0.125	1058	0.37732012	0.93561782	0.83478818	0.13356611	0.93586615
59_14	5/11/15	89	330	419	0.13	140	480	620	0.13	0.13	1519	0.24675771	0.90887737	0.77361392	0.12377823	1.05026549
59_15	6/12/15	100	320	420	0.14	130	460	590	0.11	0.125	1551	0.23958962	0.90704982	0.76997979	0.12319677	1.01463701
59_16	8/8/15	75	280	355	0.14	210	790	1000	0.12	0.13	1608	0.22733335	0.9038036	0.76367296	0.12218767	1.0639371
59_17	10/17/15	100	410	510	0.12	120	530	650	0.11	0.115	1678	0.21313619	0.8998329	0.75620609	0.12099297	0.95046841
59_18	12/4/15	91	360	451	0.12	100	490	590	0.09	0.105	1726	0.20391685	0.89712022	0.75125439	0.1202007	0.87353899
59_19	1/13/16	89	430	519	0.13	97	470	567	0.11	0.12	1766	0.19653944	0.8948659	0.74722789	0.11955646	1.00370985
59_20	5/21/16	57	270	327	0.14	140	650	790	0.08	0.11	1895	0.1745174	0.88763425	0.73482345	0.11757175	0.93559889
59_21	6/10/16	35	250	285	0.14	82	470	552	0.1	0.12	1915	0.17133142	0.88651831	0.73297542	0.11727607	1.02322667
59_22	8/9/16	53	290	343	0.13	80	510	590	0.11	0.12	1975	0.16211825	0.88317889	0.72754519	0.11640723	1.0308638
59_23	10/26/16	60	390	450	0.14	61	490	551	0.1	0.12	2053	0.15087778	0.87885645	0.72072979	0.11531677	1.0406119
59_24	12/5/16	59	410	469	0.11	62	410	472	0.1	0.105	2093	0.14541924	0.87664803	0.71733629	0.11477381	0.91484289
59_25	1/11/17	88	520	608	0.11	64	440	504	0.09	0.1	2130	0.14054608	0.87461018	0.71425591	0.11428094	0.87503652
59_26	5/9/17	92	610	702	0.12	60	480	540	0.11	0.115	2248	0.12606911	0.86814268	0.70478783	0.11276605	1.01981046
59_27	6/7/17	32	260	292	0.12	31	280	311	0.1	0.11	2277	0.12274568	0.86656054	0.7025396	0.11240634	0.97859252
59_28	8/27/17	43	360	403	0.11	96	760	856	0.08	0.095	2358	0.11391983	0.86215673	0.69641407	0.11142625	0.85258185
59_29	10/9/17	29	220	249	0.1	47	460	507	0.09	0.095	2401	0.10949535	0.85982801	0.69325049	0.11092008	0.85647252
59_30	12/3/17	27	210	237	0.1	24	260	284	0.1	0.1	2456	0.10408568	0.85685857	0.68928882	0.11028621	0.90673166
59_31	1/9/18	35	260	295	0.09	29	250	279	0.08	0.085	2493	0.10059765	0.85486672	0.68667523	0.10986804	0.7736554
59_32	5/6/18	38	360	398	0.1	40	360	400	0.09	0.095	2610	0.09031874	0.8485986	0.67866785	0.10858686	0.87487568
59_33	6/4/18	17	140	157	0.11	35	430	465	0.09	0.1	2639	0.08793776	0.84705208	0.67674053	0.10827849	0.9235445
59_34	8/14/18	9.9	110	119.9	0.11	44	470	514	0.09	0.1	2710	0.08237006	0.84327766	0.67211254	0.10753801	0.9299038
59_35	10/7/18	31	370	401	0.11	65	730	795	0.09	0.1	2764	0.07837269	0.84041825	0.66867519	0.10698803	0.93468399
59_36	11/3/18	33	320	353	0.11	51	540	591	0.08	0.095	2791	0.07644736	0.83899217	0.66698216	0.10671715	0.89020372
59_37	12/1/18	28	310	338	0.12	55	580	635	0.09	0.105	2819	0.07450065	0.83751584	0.66524394	0.10643903	0.98648024
59_38	5/6/19	26	310	336	0.12	30	380	410	0.09	0.105	2975	0.06452779	0.82933799	0.65586792	0.10493887	1.00058255
59_39	6/2/19	23	250	273	0.11	34	430	464	0.07	0.09	3002	0.06294258	0.82793072	0.65429526	0.10468724	0.85970361
59_40	8/25/19	19	280	299	0.09	28	440	468	0.08	0.085	3086	0.05825556	0.8235678	0.64949049	0.10391848	0.81794885
59_41	10/1/19	14	230	244	0.11	28	420	448	0.08	0.095	3123	0.05630335	0.82165334	0.64741469	0.10358635	0.91710925
59_42	11/2/19	9.7	160	169.7	0.1	13	160	173	0.08	0.09	3155	0.05466779	0.82000118	0.64563862	0.10330218	0.87123042
59_43	12/1/19	16	180	196	0.1	13	210	223	0.09	0.095	3184	0.05322664	0.81850678	0.64404404	0.10304705	0.921909
59_44	8/11/20	7.3	40	40	0.08	13	230	243	0.07	0.075	3438	0.04212185	0.80553373	0.63063942	0.10090231	0.74329321
59_45	10/2/20	31	520	551	0.1	8.1	150	158.1	0.06	0.08	3490	0.04015161	0.8029033	0.62800914	0.10048146	0.79616675
59_46	11/4/20	12	240	252	0.1	11	220	231	0.07	0.085	3523	0.03894935	0.80123844	0.62635832	0.10021733	0.84815669
59_47	12/4/20	6.7	140	140	0.09	8.3	160	160	0.07	0.08	3553	0.03788765	0.79972793	0.62486962	0.09997914	0.80016693
59_48	5/28/21	7.5	98	98	0.07	8.6	230	238.6	0.08	0.075	3728	0.03224651	0.79097319	0.61640086	0.09862414	0.76046292
59_49	6/9/21	7.1	38	38	0.1	8.8	260	260	0.08	0.09	3740	0.031892	0.79037639	0.61583292	0.09853327	0.9133971
59_50	8/27/21	16	260	276	0.1	6.4	90	90	0.08	0.09	3819	0.02965343	0.78645868	0.61213222	0.09794116	0.91891912
59_51	10/10/21	8.9	240	248.9	0.1	8.4	250	258.4	0.06	0.08	3863	0.02847549	0.78428508	0.61009898	0.09761584	0.81953915
59_52	11/19/21	8.3	180	188.3	0.09	7.7	160	160	0.07	0.08	3903	0.02744529	0.7823143	0.60826725	0.09732276	0.82200711
59_53	12/19/21	7.9	190	190	0.09	9	220	220	0.07	0.08	3933	0.02669717	0.78083947	0.60690358	0.09710457	0.82385409
59_54	5/18/22	11	280	291	0.07	9.3	230	230	0.06	0.065	4083	0.02325158	0.77350689	0.60020904	0.09603345	0.67684751
59_55	6/14/22	8.6	170	170	0.08	9	86	86	0.07	0.075	4110	0.02268037	0.77219436	0.59902491	0.09584399	0.78252171
59_56	8/9/22	8.7	280	288.7	0.07	8.6	190	190	0.06	0.065	4166	0.02153999	0.76947917	0.59658819	0.09545411	0.68095548
59_57	10/11/22	15	500	515	0.07	8.6	160	160	0.06	0.065	4229	0.02032545	0.76643599	0.59387693	0.09502031	0.68406429
59_58	11/9/22	8.5	220	220	0.08	6.3	130	130	0.09	0.085	4258	0.01978963	0.7650392	0.59263924	0.09482228	0.89641381
59_59	12/19/22	9.6	310	319.6	0.09	8.3	140	140	0.07	0.08	4298	0.01907367	0.76311678	0.59094248	0.0945508	0.84610604
59_60	5/11/23	9.6	280	280	0.07	8.2	210	210	0.08	0.075	4441	0.01671945	0.75628356	0.58497074	0.09359532	0.80132213
59_61	6/28/23	6.5	290	290	0.09	7.8	180	180	0.07	0.08	4489	0.01599624	0.75400363	0.58299765	0.09327962	0.85763638
59_62	8/7/23	15	840	855	0.08	7.8	240	240	0.07	0.075	4529	0.01541752	0.75210894	0.5813649	0.09301838	0.80629222
59_63	10/16/23	9.8	430	439.8	0.07	9.2	240	240	0.07	0.07	4599	0.01445468	0.74880468	0.57853192	0.09256511	0.75622448
59_64	11/27/23	6.6	440	446.6	0.07	8.7	210	210	0.08	0.075	4641	0.01390609	0.7468291	0.57684655	0.09229545	0.81260779
59_65	12/22/23	8.6	270	270	0.08	6.5	190	190	0.07	0.075	4666	0.01358948	0.74565564	0.57584834	0.09213573	0.81401641
59_66	5/20/24	8.7	220	220	0.08	7.3	190	190	0.07	0.075	4816	0.0118356	0.73865346	0.56993411	0.09118946	0.82246349
59_67	6/6/24	6	250	250	0.07	5.2	190	190	0.07	0.07	4833	0.01165168	0.73786404	0.56927166	0.09108346	0.76852588
59_68	8/23/24	8.7	110	110	0.08	8.4	100	100	0.07	0.075	4911	0.01084381	0.7342528	0.56625162	0.09060026	0.8278122

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
60_1	11/25/11	270	380	650	0.12	850	1100	1950	0.15	0.135	256	0.78991109	0.98402655	1.00043595	0.13505885	0.99956424
60_2	1/16/12	350	460	810	0.12	410	480	890	0.15	0.135	308	0.75296326	0.98081325	0.98646199	0.13317237	1.0137238
60_3	3/2/12					500	700	1200	0.14	0.14	354	0.72172188	0.97797947	0.97455674	0.13156516	1.0641115
60_4	5/5/12	8.9	280	390	0.12	9.2	290	410	0.15	0.135	418	0.68040019	0.97405043	0.95867147	0.12942065	1.04311022
60_5	7/17/12	7.7	190	290	0.1	15	1000	1600	0.15	0.125	491	0.63614807	0.96958814	0.94146446	0.1270977	0.98349536
60_6	10/9/12	12	330	550	0.12	15	620	1000	0.14	0.13	575	0.58877731	0.96447873	0.92278981	0.12457662	1.04353445
60_7	11/21/12	8.4	280	500	0.12	18	840	1400	0.14	0.13	618	0.56591005	0.96187363	0.91366873	0.12334528	1.05395198
60_8	12/19/12	9	230	430	0.12	13	470	800	0.13	0.125	646	0.55149937	0.96018107	0.90788174	0.12256404	1.01987504
60_9	5/9/13	95	190	285	0.102	210	440	650	0.116	0.109	787	0.48432069	0.95170297	0.88045374	0.11886126	0.91703558
60_10	6/19/13	77	160	237	0.132	320	620	940	0.14	0.136	828	0.46636885	0.94925178	0.87298199	0.11785257	1.15398418
60_11	8/20/13	88	210	298	0.1	170	380	550	0.118	0.109	890	0.44047803	0.9455571	0.86208369	0.1163813	0.9365766
60_12	10/2/13	47	120	167	0.05	490	1100	1590	0.106	0.078	933	0.4233705	0.94300311	0.85479616	0.11539748	0.67592463
60_13	12/3/13	38	110	148	0.1	240	550	790	0.108	0.104	995	0.39986677	0.93933275	0.84466017	0.11402912	0.91204771
60_14	2/4/14	130	310	440	0.08	500	1200	1700	0.09	0.085	1058	0.37732012	0.93561782	0.83478818	0.1126964	0.75423879
60_15	5/10/15	52	180	232	0.08	140	550	690	0.11	0.095	1518	0.24698513	0.90893454	0.77372859	0.10445336	0.90949683
60_16	6/12/15	38	150	188	0.07	88	320	408	0.1	0.085	1551	0.23958962	0.90704982	0.76997979	0.10394727	0.81772228
60_17	8/8/15	34	150	184	0.07	220	900	1120	0.1	0.085	1608	0.22733335	0.9038036	0.76367296	0.10309585	0.82447548
60_18	10/17/15	75	310	385	0.07	240	1000	1240	0.09	0.08	1678	0.21313619	0.8998329	0.75620609	0.10208782	0.78363901
60_19	12/4/15	67	260	327	0.07	120	550	670	0.08	0.075	1726	0.20391685	0.89712022	0.75125439	0.10141934	0.73950391
60_20	1/15/16	75	310	385	0.07	49	240	289	0.1	0.085	1768	0.19617765	0.89475334	0.74702889	0.1008489	0.84284508
60_21	5/21/16	47	210	257	0.07	140	690	830	0.11	0.09	1895	0.1745174	0.88763425	0.73482345	0.09920117	0.90724741
60_22	6/10/16	48	230	278	0.09	43	220	263	0.08	0.085	1915	0.17133142	0.88651831	0.73297542	0.09895168	0.85900511
60_23	8/9/16	36	200	236	0.08	140	770	910	0.09	0.085	1975	0.16211825	0.88317889	0.72754519	0.0982186	0.86541653
60_24	10/26/16	58	290	348	0.09	130	630	760	0.12	0.105	2053	0.15087778	0.87885645	0.72072979	0.09729852	1.07915308
60_25	12/5/16	45	260	305	0.06	62	440	502	0.06	0.06	2093	0.14541924	0.87664803	0.71733629	0.0968404	0.61957614
60_26	1/11/17	37	250	287	0.06	64	490	554	0.09	0.075	2130	0.14054608	0.87461018	0.71425591	0.09642455	0.77781024
60_27	5/9/17	44	230	274	0.08	130	890	1020	0.1	0.09	2248	0.12606911	0.86814268	0.70478783	0.09514636	0.94591115
60_28	6/7/17	21	150	171	0.08	31	320	351	0.1	0.09	2277	0.12274568	0.86656054	0.7025396	0.09484285	0.9489382
60_29	8/27/17	27	210	237	0.08	35	310	345	0.08	0.08	2358	0.11391983	0.86215673	0.69641407	0.0940159	0.8509199
60_30	10/9/17	21	150	171	0.09	38	270	308	0.09	0.09	2401	0.10949535	0.85982801	0.69325049	0.09358882	0.96165336
60_31	12/3/17	14	90	104	0.06	120	1000	1120	0.08	0.07	2456	0.10408568	0.85685857	0.68928882	0.09305399	0.75225145
60_32	1/9/18	37	280	317	0.07	58	430	488	0.07	0.07	2493	0.10059765	0.85486672	0.68667523	0.09270116	0.75511464
60_33	5/6/18	13	120	133	0.07	120	1300	1420	0.09	0.08	2610	0.09031874	0.8485986	0.67866785	0.09162016	0.87317027
60_34	6/3/18	15	170	185	0.06	22	270	292	0.08	0.07	2638	0.08801881	0.84710536	0.67680663	0.09136889	0.76612506
60_35	8/14/18	15	180	195	0.06	79	900	979	0.09	0.075	2710	0.08237006	0.84327766	0.67211254	0.09073519	0.82658115
60_36	10/5/18	9.1	82	91.1	0.07	37	410	447	0.1	0.085	2762	0.07851722	0.84052398	0.66880127	0.09028817	0.94143007
60_37	11/3/18	14	130	144	0.06	44	490	534	0.1	0.08	2791	0.07644736	0.83899217	0.66698216	0.09004259	0.88846843
60_38	12/1/18	14	180	194	0.07	47	600	647	0.1	0.085	2819	0.07450065	0.83751584	0.66524394	0.08980793	0.94646428
60_39	5/6/19	19	200	219	0.07	34	480	514	0.1	0.085	2975	0.06452779	0.82933799	0.65586792	0.08854217	0.95999455
60_40	6/2/19	12	160	172	0.06	29	370	399	0.08	0.07	3002	0.06294258	0.82793072	0.65429526	0.08832986	0.79248399
60_41	8/25/19	20	230	250	0.06	32	480	512	0.09	0.075	3086	0.05825556	0.8235678	0.64949049	0.08768122	0.85537134
60_42	10/1/19	16	240	256	0.06	16	200	216	0.09	0.075	3123	0.05630335	0.82165334	0.64741469	0.08740098	0.85811392
60_43	11/10/19	5.8	110	110	0.06	17	290	307	0.08	0.07	3163	0.05426637	0.81958866	0.64519733	0.08710164	0.80365882
60_44	12/1/19	7.7	130	137.7	0.06	14	190	204	0.09	0.075	3184	0.05322664	0.81850678	0.64404404	0.08694595	0.86260491
60_45	8/10/20	6.2	7.1	7.1	0.06	11	200	211	0.07	0.065	3437	0.04216067	0.8055844	0.63069036	0.0851432	0.76341976
60_46	10/6/20	3.2	4.8	4.8	0.07	13	250	263	0.07	0.07	3494	0.04000393	0.80270131	0.6278083	0.08475412	0.82591855
60_47	11/4/20	3.5	4	4	0.06	16	320	336	0.07	0.065	3523	0.03894935	0.80123844	0.62635832	0.08455837	0.76869974
60_48	12/3/20	7.4	8.5	8.5	0.06	22	380	402	0.06	0.06	3552	0.03792257	0.79977823	0.62491906	0.08436407	0.71120322
60_49	5/28/21	8.3	7.7		0.07	15	330	345	0.07	0.07	3728	0.03224651	0.79097319	0.61640086	0.08321412	0.84120343
60_50	6/9/21	7.3	9.5	9.5	0.05	9.3	200	200	0.09	0.07	3740	0.031892	0.79037639	0.61583292	0.08313744	0.84197922
60_51	8/27/21	7	7.2		0.07	8.7	180	180	0.07	0.07	3819	0.02965343	0.78645868	0.61213222	0.08263785	0.84706948
60_52	10/10/21	8.9	6.6		0.06	25	620	645	0.08	0.07	3863	0.02847549	0.78428508	0.61009898	0.08236336	0.84989245
60_53	11/19/21	9.4	8.4		0.06	20	450	470	0.07	0.065	3903	0.02744529	0.7823143	0.60826725	0.08211608	0.7915624
60_54	12/19/21	8.3	21	21	0.07	9.3	210	210	0.08	0.075	3933	0.02669717	0.78083947	0.60690358	0.08193198	0.91539344
60_55	5/18/22	7.5	15	15	0.05	7.1	180	180	0.06	0.055	4083	0.02325158	0.77350689	0.60020904	0.08102822	0.67877585
60_56	6/15/22	7.4	6.8		0.06	10	370	380	0.07	0.065	4111	0.02265949	0.77214579	0.59898117	0.08086246	0.80383408
60_57	8/9/22	6.5	7.9		0.05	7.1	240	247.1	0.06	0.055	4166	0.02153999	0.76947917	0.59658819	0.08053941	0.68289553
60_58	10/11/22	6.4	11	11	0.05	13	470	483	0.06	0.055	4229	0.02032545	0.76643599	0.59387693	0.08017339	0.68601319
60_59	11/9/22	6.6	11	11	0.06	9	290	299	0.07	0.065	4258	0.01978963	0.7650392	0.59263924	0.0800063	0.81243605
60_60	12/19/22	7.9	9.9	9.9	0.06	7.3	79	79	0.07	0.065	4298	0.01907367	0.76311678	0.59094248	0.07977723	0.81476878
60_61	5/17/23	8	9.3	9.3	0.06	8	240	240	0.07	0.065	4447	0.01662729	0.75599819	0.58472327	0.07893764	0.82343479
60_62	6/28/23	8.7	23	23	0.06	8.7	240	248.7	0.07	0.065	4489	0.01599624	0.75400363	0.58299765	0.07870468	0.82587207
60_63	8/14/23	6.5	7.3		0.05	8.4	140	140	0.06	0.055	4536	0.01531842	0.75177786	0.58108023	0.07844583	0.70112076
60_64	10/25/23	8	14	14	0.06	6.8	160	160	0.07	0.065	4608	0.01433533	0.7483809	0.57816988	0.07805293	0.83276819
60_65	11/27/23	7.6	36	36	0.06	8.8	230	230	0.07	0.065	4641	0.01390609	0.7468291	0.57684655	0.07787428	0.83467862
60_66	12/22/23	8.8	51	51	0.05	7.9	400	400	0.07	0.06	4666	0.01358948	0.74565564	0.57584834	0.07773953	0.77180815
60_67	5/20/24	8.2	53	53	0.05	9.2	340	340	0.07	0.06	4816	0.0118356	0.73865346	0.56993411	0.07694111	0.77981723
60_68	6/6/24	6.3	5.7		0.06	10	360	370	0.06	0.06	4833	0.01165168	0.73786404	0.56927166	0.07685167	0.7807247
60_69	8/23/24	6.6	6.4		0.06	9.7	160	160	0.07	0.065	4911	0.01084381	0.7342528	0.56625162	0.07644397	0.85029599

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
61_1	11/25/11	220	270	490	0.1	720	940	1660	0.12	0.11	256	0.78991109	0.98402655	1.00043595	0.11004795	0.99956424
61_2	1/19/12	200	300	500	0.16	340	420	760	0.2	0.18	311	0.75088518	0.98062819	0.98567272	0.108424	1.66014906
61_3	5/2/12	7.9	250	370	0.16	5.8	120	180	0.15	0.155	415	0.68228321	0.97423425	0.95939901	0.10553389	1.46872249
61_4	5/10/12	7.6	220	330	0.13	7.8	190	300	0.17	0.15	423	0.67727337	0.97374414	0.95746254	0.10532088	1.42421902
61_5	6/4/12	6.8	190	280	0.13	12	370	540	0.19	0.16	448	0.6618535	0.97221413	0.95148576	0.10466343	1.52870963
61_6	7/17/12	4.1	30	44	0.19	13	480	760	0.2	0.195	491	0.63614807	0.96958814	0.94146446	0.10356109	1.88294656
61_7	8/7/12	12	520	790	0.13	12	600	920	0.22	0.175	512	0.62395954	0.96830825	0.93668612	0.10303547	1.69844419
61_8	8/30/12	9.9	340	540	0.15	15	900	1400	0.13	0.14	535	0.61087798	0.96690841	0.9315376	0.10246914	1.36626506
61_9	10/2/12	7.3	190	340	0.17	8.4	290	460	0.15	0.16	568	0.59258637	0.96490348	0.9243021	0.10167323	1.57366889
61_10	11/21/12	5.6	42	70	0.12	7.1	210	330	0.18	0.15	618	0.56591005	0.96187363	0.91366873	0.10050356	1.49248445
61_11	12/13/12	9.6	190	350	0.12	12	410	720	0.17	0.145	640	0.55455616	0.96054351	0.90911189	0.10000231	1.44996653
61_12	1/7/13	9	170	340	0.14	11	450	800	0.17	0.155	665	0.54193026	0.95903424	0.90402145	0.09944236	1.5586919
61_13	1/28/13					11	370	670	0.15	0.15	686	0.53154693	0.95776829	0.89981617	0.09897978	1.51546106
61_14	2/20/13	14	640	1200	0.13	7.3	240	430	0.13	0.13	709	0.52040284	0.95638369	0.89528293	0.09848112	1.32004994
61_15	4/26/13	92	180	272	0.098	50	93	143	0.07	0.084	774	0.49015578	0.95248149	0.88286841	0.09711553	0.86494924
61_16	6/19/13	95	210	305	0.106	250	510	760	0.12	0.113	828	0.46636885	0.94925178	0.87298199	0.09602802	1.17673988
61_17	6/25/13	71	160	231	0.084	96	220	316	0.12	0.102	834	0.46379816	0.9488936	0.87190655	0.09590972	1.06350013
61_18	7/8/13	70	170	240	0.1	160	350	510	0.114	0.107	847	0.45827685	0.94811801	0.86959188	0.09565511	1.11860207
61_19	8/2/13	240	520	760	0.114	310	740	1050	0.128	0.121	872	0.447843	0.94662827	0.86519931	0.09517192	1.27138336
61_20	9/10/13	620	1400	2020	0.124	220	510	730	0.138	0.131	911	0.43203852	0.94430894	0.85849762	0.09443474	1.38720139
61_21	10/1/13	550	1300	1850	0.092	210	470	680	0.12	0.106	932	0.4237607	0.94306243	0.8549632	0.09404595	1.12710859
61_22	12/4/13	94	250	344	0.122	310	710	1020	0.13	0.126	996	0.39949858	0.93927366	0.84450017	0.09289502	1.35636982
61_23	1/8/14	350	870	1220	0.1	260	770	1030	0.14	0.12	1031	0.38682297	0.93720813	0.8389678	0.09228646	1.30029911
61_24	2/5/14	170	420	590	0.092	270	740	1010	0.1	0.096	1059	0.37697268	0.93555897	0.83463483	0.09180983	1.04563966
61_25	4/30/15	360	1300	1660	0.11	220	780	1000	0.12	0.115	1508	0.24927095	0.90950644	0.77487913	0.0852367	1.34918403
61_26	5/14/15	77	280	357	0.11	140	590	730	0.12	0.115	1522	0.24607669	0.90870588	0.77327029	0.08505973	1.3519911
61_27	6/12/15	140	570	710	0.11	120	370	490	0.12	0.115	1551	0.23958962	0.90704982	0.76997979	0.08469778	1.3577688
61_28	7/10/15	97	390	487	0.1	120	550	670	0.11	0.105	1579	0.23348857	0.90545373	0.76685553	0.08435411	1.24475265
61_29	8/4/15	250	1000	1250	0.11	81	390	471	0.1	0.105	1604	0.2281726	0.90403102	0.76410876	0.08405196	1.2492272
61_30	9/5/15	15	100	115	0.09	110	470	580	0.09	0.09	1636	0.2215444	0.90221322	0.76065031	0.08367153	1.07563464
61_31	10/17/15	87	400	487	0.1	92	410	502	0.11	0.105	1678	0.21313619	0.8998329	0.75620609	0.08318267	1.26228216
61_32	12/3/15	170	810	980	0.08	120	520	640	0.09	0.085	1725	0.20410479	0.89717665	0.7513562	0.08264918	1.02844333
61_33	1/6/16	130	540	670	0.1	130	580	710	0.1	0.1	1759	0.19781094	0.89526	0.74792613	0.08227187	1.21548222
61_34	2/6/16	75	370	445	0.08	140	690	830	0.08	0.08	1790	0.19224173	0.89351603	0.74485419	0.08193396	0.9763961
61_35	4/29/16	120	660	780	0.09	170	640	810	0.09	0.09	1873	0.17809044	0.88886341	0.73687885	0.08105667	1.11033424
61_36	5/16/16	160	810	970	0.1	75	470	545	0.11	0.105	1890	0.1753231	0.88791346	0.73528849	0.08088173	1.29819175
61_37	6/7/16	21	110	131	0.09	67	410	477	0.13	0.11	1912	0.17180559	0.88668561	0.73325139	0.08065765	1.36378875
61_38	7/13/16	46	320	366	0.09	73	430	503	0.1	0.095	1948	0.16620122	0.88468007	0.72996798	0.08029648	1.1831154
61_39	8/6/16	62	310	372	0.09	59	340	399	0.11	0.1	1972	0.16256692	0.88334557	0.72781273	0.0800594	1.24907255
61_40	9/3/16	130	800	930	0.09	60	410	470	0.1	0.095	2000	0.15842722	0.88179119	0.72533148	0.07978646	1.19067817
61_41	10/22/16	140	760	900	0.11	36	270	306	0.13	0.12	2049	0.15143478	0.8790776	0.72107285	0.07931801	1.51289719
61_42	12/16/16	95	560	655	0.09	98	580	678	0.08	0.085	2104	0.14395307	0.87604169	0.7164147	0.07880562	1.07860332
61_43	1/11/17	66	430	496	0.1	100	570	670	0.08	0.09	2130	0.14054608	0.87461018	0.71425591	0.07856815	1.14550235
61_44	2/15/17	25	210	235	0.08	61	430	491	0.08	0.08	2165	0.13608672	0.87268684	0.71139223	0.07825315	1.02232313
61_45	4/24/17	51	300	351	0.09	51	290	341	0.07	0.08	2233	0.12782328	0.86896216	0.70596253	0.07765588	1.03018602
61_46	5/11/17	45	290	335	0.1	36	310	346	0.11	0.105	2250	0.12583705	0.86803347	0.70463182	0.0775095	1.35467265
61_47	6/8/17	150	900	1050	0.1	67	570	637	0.11	0.105	2278	0.12263265	0.86650604	0.70246261	0.07727089	1.3588559
61_48	7/13/17	53	500	553	0.08	65	510	575	0.07	0.075	2313	0.11874167	0.86460052	0.69978966	0.07697686	0.97431874
61_49	8/12/17	110	850	960	0.1	42	330	372	0.08	0.09	2343	0.11550495	0.86297056	0.69753178	0.0767285	1.17296709
61_50	9/1/17	33	250	283	0.07	67	470	537	0.08	0.075	2363	0.1133963	0.86188563	0.69604315	0.07656475	0.9795631
61_51	10/6/17	31	270	301	0.09	53	510	563	0.1	0.095	2398	0.10979838	0.85999027	0.69346929	0.07628162	1.24538516
61_52	12/14/17	27	200	227	0.08	19	130	149	0.06	0.07	2467	0.10303625	0.85626592	0.68850756	0.07573583	0.92426528
61_53	1/24/18	65	610	675	0.07	21	200	221	0.07	0.07	2508	0.09921711	0.85406054	0.68562712	0.07541898	0.92814828
61_54	2/11/18	19	150	169	0.07	9.4	62	71.4	0.06	0.065	2526	0.09758544	0.85309412	0.68437794	0.07528157	0.86342509
61_55	4/24/18	42	380	422	0.07	31	250	281	0.06	0.065	2598	0.09132273	0.84923936	0.67947184	0.0747419	0.86965943
61_56	5/11/18	8.4	62	70.4	0.08	12	150	162	0.08	0.08	2615	0.08990368	0.84833175	0.67833398	0.07461674	1.0721455
61_57	6/2/18	38	290	328	0.06	11	110	121	0.08	0.07	2637	0.08809993	0.84715864	0.67687275	0.074456	0.94015254
61_58	7/14/18	87	870	957	0.09	33	300	333	0.09	0.09	2679	0.0847563	0.84492357	0.67411769	0.07415295	1.21370768
61_59	8/13/18	110	1400	1510	0.09	18	170	188	0.09	0.09	2709	0.08244597	0.84333071	0.67217685	0.07393945	1.21721213
61_60	9/2/18	76	920	996	0.08	31	320	351	0.08	0.08	2729	0.08094085	0.84227046	0.67089517	0.07379847	1.08403333
61_61	10/5/18	24	300	324	0.09	36	330	366	0.09	0.09	2762	0.07851722	0.84052398	0.66880127	0.07356814	1.22335565
61_62	12/17/18	32	350	382	0.07	27	310	337	0.07	0.07	2835	0.07341059	0.83667339	0.66425853	0.07306844	0.95800597
61_63	1/14/19	28	310	338	0.11	32	350	382	0.08	0.095	2863	0.07154122	0.83520114	0.66254753	0.07288023	1.30350855
61_64	2/1/19	13	91	91	0.09	31	300	331	0.08	0.085	2881	0.0703647	0.83425606	0.6614565	0.07276022	1.16822084
61_65	4/25/19	25	270	295	0.08	34	370	404	0.07	0.075	2964	0.06518501	0.82991201	0.65651271	0.0722164	1.03854529
61_66	5/10/19	21	310	331	0.09	17	210	227	0.1	0.095	2979	0.06429045	0.82912935	0.65563404	0.07211974	1.31725369
61_67	6/2/19	22	290	312	0.08	23	340	363	0.08	0.08	3002	0.06294258	0.82793072	0.65429526	0.07197248	1.11153598
61_68	7/14/19	21	330	351	0.1	17	260	277	0.09	0.095	3044	0.06055374	0.82574638	0.65187655	0.07170642	1.3248465
61_69	8/8/19	11	120	131	0.08	16	190	206	0.09	0.085	3069	0.05917507	0.82444891	0.65045241	0.07154977	1.18798433
61_70	9/7/19	26	400	426	0.09	22	360	382	0.08	0.085	3099	0.05756205	0.82289464	0.6487584	0.07136342	1.19108634
61_71	10/1/19	11	170	181	0.08	17	230	247	0.08	0.08	3123	0.05630335	0.82165334	0.64741469	0.07121562	1.12334913
61_72	12/11/19	6.8	82	82	0.05	5.7	15	15	0.04	0.045	3194	0.05273855	0.8179921	0.64349744	0.07078472	0.63573044
61_73	1/28/20	16	180	196	0.07	6	17	17	0.05	0.06	3242	0.05045731	0.81552614	0.64089636	0.0704986	0.85108074
61_74	2/17/20	8.3	120	128.3	0.09	5.5	16	16	0.06	0.075	3262	0.04953617	0.81450086	0.63982341	0.07038057	1.06563495
61_75	7/16/20	5.1	110	110	0.07	7.4	19	19	0.06	0.065	3412	0.04314293	0.80685218	0.63196824	0.06951651	0.93502972
61_76	8/10/20	21	380	401	0.05	5.7	11	11	0.05	0.05	3437	0.04216067	0.8055844	0.63069036	0.06937594	0.72071096
61_77	9/29/20	7.2	68	68	0.06	6	9.7	9.7	0.06	0.06	3487	0.04026273	0.80305482	0.62815992	0.06909759	0.86833707
61_78	10/22/20	6.4	130	130	0.06	5	9.9	9.9	0.05	0.055	3510	0.03941861	0.80189388	0.62700697	0.06897077	0.7974393
61_79	11/10/20	9.4	100	100	0.06	6.7	7.5	7.5	0.05	0.055	3529	0.03873465	0.80093611	0.62605967	0.06886656	0.79864591
61_80	12/4/20	5.3	140	140	0.06	4.6	9.5	9.5	0.05	0.055	3553	0.03788765	0.79972793	0.62486962	0.06873566	0.80016693
61_81	1/23/21	9	99	99	0.13	5.7	8	8	0.13	0.13	3603	0.03618207	0.79721673	0.6224132	0.06846545	1.89876787
61_82	2/7/21	9.3	180	180	0.07	5.2	6.7	6.7	0.06	0.065	3618	0.03568552	0.79646491	0.62168217	0.06838504	0.95050031
61_83	4/23/21	15	230	245	0.07	4.3	12	12	0.05	0.06	3693	0.03330318	0.79271644	0.61806642	0.06798731	0.88251769
61_84	5/28/21	14	280	294	0.08	7.5	11	11	0.04	0.06	3728	0.03224651	0.79097319	0.61640086	0.0678041	0.88490231
61_85	6/8/21	8.5	70	70	0.07	5.4	13	13	0.06	0.065	3739	0.03192139	0.79042611	0.61588018	0.06774682	0.95945462
61_86	7/17/21	8.4	110	110	0.06	6.8	10	10	0.05	0.055	3778	0.03079488	0.78848949	0.61404463	0.06754491	0.81427306
61_87	8/27/21	7.5	99	99	0.07	6.8	26	26	0.05	0.06	3819	0.02965343	0.78645868	0.61213222	0.06733454	0.89107308
61_88	9/20/21	8.2	220	220	0.06	5.8	15	15	0.05	0.055	3843	0.029005	0.78527233	0.61102077	0.06721228	0.81830279
61_89	10/10/21	9.3	170	170	0.06	5	9.6	9.6	0.05	0.055	3863	0.02847549	0.78428508	0.61009898	0.06711089	0.81953915
61_90	12/26/21	8.5	100	100	0.06	8.3	33	33	0.06	0.06	3940	0.02652557	0.78049574	0.60658662	0.06672453	0.89921955
61_91	1/24/22	8.5	230	230	0.07	8	91	91	0.05	0.06	3969	0.0258263	0.77907333	0.60527837	0.06658062	0.90116313
61_92	2/15/22	9.7	190	190	0.06	6.4	17	17	0.05	0.055	3991	0.02530815	0.777996	0.60429106	0.06647202	0.82741584
61_93	4/27/22	7.6	140	140	0.07	8.5	33	33	0.06	0.065	4062	0.02370578	0.77452929	0.60113431	0.06612477	0.98299012
61_94	5/18/22	8.9	220	220	0.05	7.1	100	100	0.04	0.045	4083	0.02325158	0.77350689	0.60020904	0.06602299	0.68158071
61_95	6/14/22	11	350	361	0.05	6.6	19	19	0.05	0.05	4110	0.02268037	0.77219436	0.59902491	0.06589274	0.75880893
61_96	7/1/22	7.6	270	270	0.07	5.7	24	24	0.05	0.06	4127	0.02232795	0.77136909	0.59828247	0.06581107	0.91170069
61_97	8/9/22	9.1	220	220	0.05	6.1	16	16	0.05	0.05	4166	0.02153999	0.76947917	0.59658819	0.0656247	0.76190823
61_98	9/14/22	8.3	140	140	0.05	6.5	10	10	0.04	0.045	4202	0.02083735	0.76773873	0.59503508	0.06545386	0.68750721
61_99	10/11/22	11	240	251	0.05	4.2	8.3	8.3	0.04	0.045	4229	0.02032545	0.76643599	0.59387693	0.06532646	0.68884795
61_100	12/19/22	12	390	402	0.07	7.2	12	12	0.06	0.065	4298	0.01907367	0.76311678	0.59094248	0.06500367	0.9999435
61_101	1/13/23	8.6	86	86	0.07	6.3	43	43	0.06	0.065	4323	0.01863941	0.76191773	0.589888	0.06488768	1.001731
61_102	2/7/23	8.5	180	180	0.06	7.3	35	35	0.05	0.055	4348	0.01821503	0.76072055	0.58883804	0.06477218	0.84912992
61_103	4/24/23	7.7	160	160	0.07	4.6	25	25	0.05	0.06	4424	0.01698336	0.75709268	0.58567323	0.06442405	0.93132915
61_104	5/26/23	8.4	110	110	0.06	8.1	140	140	0.05	0.055	4456	0.01649	0.75557034	0.58435251	0.06427878	0.8556479
61_105	6/28/23	8.5	130	130	0.07	7.7	32	32	0.05	0.06	4489	0.01599624	0.75400363	0.58299765	0.06412974	0.93560333
61_106	7/18/23	5.7	100	100	0.06	6.2	68	68	0.05	0.055	4509	0.01570422	0.75305569	0.58217999	0.0640398	0.85884092
61_107	8/14/23	7.4	310	317.4	0.06	6.1	47	47	0.05	0.055	4536	0.01531842	0.75177786	0.58108023	0.06391882	0.86046638
61_108	9/6/23	7.6	360	360	0.06	5.6	18	18	0.04	0.05	4559	0.01499726	0.75069105	0.58014703	0.06381617	0.78350044
61_109	10/25/23	8.5	150	150	0.07	6.7	27	27	0.06	0.065	4608	0.01433533	0.7483809	0.57816988	0.06359869	1.02203369
61_110	12/8/23	8.5	320	320	0.06	5.7	20	20	0.05	0.055	4652	0.01376588	0.74631255	0.57640688	0.06340476	0.8674428
61_111	1/16/24	8.3	150	150	0.06	8.5	84	84	0.05	0.055	4691	0.01328008	0.74448401	0.57485379	0.06323392	0.86978638
61_112	2/1/24	9.3	180	180	0.07	8.8	35	35	0.05	0.06	4707	0.01308577	0.74373514	0.57421918	0.06316411	0.94990653
61_113	4/22/24	9.3	160	160	0.06	5.4	17	17	0.05	0.055	4788	0.01214486	0.73995552	0.57102862	0.06281315	0.87561286
61_114	5/20/24	8.9	270	270	0.05	6	19	19	0.05	0.05	4816	0.0118356	0.73865346	0.56993411	0.06269275	0.79754035
61_115	6/6/24	8	360	360	0.06	5.6	22	22	0.05	0.055	4833	0.01165168	0.73786404	0.56927166	0.06261988	0.87831529
61_116	7/5/24	8.6	170	170	0.05	5.6	13	13	0.05	0.05	4862	0.01134452	0.73651933	0.56814512	0.06249596	0.80005168
61_117	8/23/24	8.6	110	110	0.07	5.9	23	23	0.05	0.06	4911	0.01084381	0.7342528	0.56625162	0.06228768	0.96327238
61_118	9/27/24	7.9	200	200	0.05	5.9	55	55	0.05	0.05	4946	0.01049975	0.73263812	0.56490663	0.06213973	0.80463821

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
62_1	11/24/11	1600	1900	3500	0.23	1100	1400	2500	0.21	0.22	255	0.79063912	0.98408845	1.00071021	0.22015625	0.99929029
62_2	1/18/12	1100	1500	2600	0.39	1100	1500	2600	0.37	0.38	310	0.75157724	0.98068988	0.98593561	0.21690583	1.75191231
62_3	5/5/12	18	1200	1800	0.28	12	410	570	0.27	0.275	418	0.68040019	0.97405043	0.95867147	0.21090772	1.30388777
62_4	7/18/12	7.8	290	440	0.3	13	880	1400	0.29	0.295	492	0.6355623	0.96952715	0.94123522	0.20707175	1.42462698
62_5	8/30/12	14	1000	1700	0.25	11	540	860	0.26	0.255	535	0.61087798	0.96690841	0.9315376	0.20493827	1.24427711
62_6	11/1/12	15	950	1700	0.28	11	520	860	0.29	0.285	598	0.57643336	0.96308443	0.91787533	0.20193257	1.41136219
62_7	12/20/12	13	610	1100	0.28	11	430	790	0.3	0.29	647	0.55099155	0.96012067	0.90767724	0.19968899	1.45225832
62_8	1/24/13	8.2	310	580	0.23	8.9	360	630	0.23	0.23	682	0.53350926	0.95800929	0.90061226	0.1981347	1.16082646
62_9	5/8/13	800	1700	2500	0.294	620	1200	1820	0.266	0.28	786	0.48476707	0.95176283	0.8806387	0.19374051	1.44523205
62_10	6/19/13	640	1400	2040	0.252	500	1000	1500	0.232	0.242	828	0.46636885	0.94925178	0.87298199	0.19205604	1.2600489
62_11	8/20/13	340	740	1080	0.23	510	1200	1710	0.224	0.227	890	0.44047803	0.9455571	0.86208369	0.18965841	1.19688865
62_12	10/3/13	410	960	1370	0.152	550	1300	1850	0.184	0.168	934	0.42298066	0.9429438	0.85462924	0.18801843	0.89352941
62_13	12/4/13	570	1400	1970	0.25	740	1700	2440	0.234	0.242	996	0.39949858	0.93927366	0.84450017	0.18579004	1.30254562
62_14	2/5/14	670	1600	2270	0.196	490	1300	1790	0.202	0.199	1059	0.37697268	0.93555897	0.83463483	0.18361966	1.08376194
62_15	5/11/15	230	830	1060	0.21	130	430	560	0.18	0.195	1519	0.24675771	0.90887737	0.77361392	0.17019506	1.14574417
62_16	6/8/15	360	1200	1560	0.2	420	1600	2020	0.2	0.2	1547	0.24047412	0.90727806	0.77043032	0.16949467	1.17997811
62_17	8/2/15	600	2400	3000	0.18	200	860	1060	0.15	0.165	1602	0.22859339	0.90414476	0.76432704	0.16815195	0.98125535
62_18	10/14/15	510	2100	2610	0.17	130	630	760	0.14	0.155	1675	0.21372604	0.90000271	0.75652003	0.16643441	0.93129782
62_19	12/6/15	310	1400	1710	0.15	100	530	630	0.11	0.13	1728	0.20354148	0.89700737	0.75105094	0.16523121	0.78677632
62_20	2/7/16	280	1300	1580	0.13	81	370	451	0.1	0.115	1791	0.19206471	0.89345983	0.74475596	0.16384631	0.70187726
62_21	5/2/16	290	1500	1790	0.17	110	540	650	0.12	0.145	1876	0.17759893	0.8886957	0.73659716	0.16205137	0.89477797
62_22	6/1/16	210	1300	1510	0.17	100	490	590	0.14	0.155	1906	0.17275785	0.88702031	0.73380464	0.16143702	0.96012674
62_23	8/7/16	260	1500	1760	0.17	110	690	800	0.12	0.145	1973	0.16241723	0.88329001	0.72772351	0.16009917	0.90568863
62_24	10/22/16	260	1600	1860	0.17	100	570	670	0.16	0.165	2049	0.15143478	0.8790776	0.72107285	0.15863603	1.04011682
62_25	12/4/16	110	690	800	0.14	170	1100	1270	0.12	0.13	2092	0.14555327	0.87670317	0.71742031	0.15783247	0.82365815
62_26	2/22/17	170	1200	1370	0.14	130	790	920	0.11	0.125	2172	0.13521197	0.87230268	0.71082522	0.15638155	0.79932704
62_27	5/3/17	250	2000	2250	0.17	70	500	570	0.14	0.155	2242	0.12676787	0.86847038	0.70525673	0.15515648	0.99899146
62_28	6/5/17	200	1400	1600	0.12	100	710	810	0.1	0.11	2275	0.12297204	0.86666956	0.70269369	0.15459261	0.71154758
62_29	8/6/17	97	690	787	0.12	65	530	595	0.09	0.105	2337	0.11614516	0.86329631	0.69798094	0.15355581	0.68379049
62_30	10/8/17	190	1700	1890	0.14	73	660	733	0.12	0.13	2400	0.10959626	0.85988209	0.69332339	0.15253115	0.85228494
62_31	12/13/17	110	970	1080	0.11	30	310	340	0.1	0.105	2466	0.10313121	0.85631978	0.68857844	0.15148726	0.69312761
62_32	2/12/18	110	970	1080	0.12	59	540	599	0.08	0.1	2527	0.09749558	0.85304046	0.68430882	0.15054794	0.66424024
62_33	5/1/18	140	1700	1840	0.15	45	450	495	0.14	0.145	2605	0.09073572	0.84886552	0.67900238	0.14938052	0.9706754
62_34	6/10/18	130	1200	1330	0.11	65	580	645	0.08	0.095	2645	0.08745304	0.84673246	0.67634451	0.14879579	0.63845892
62_35	8/27/18	130	1300	1430	0.17	52	640	692	0.14	0.155	2723	0.08138948	0.8425884	0.67127866	0.14768131	1.04955735
62_36	10/6/18	97	960	1057	0.1	42	470	512	0.09	0.095	2763	0.07844493	0.84047111	0.66873822	0.14712241	0.6457208
62_37	11/25/18	110	1400	1510	0.15	43	540	583	0.13	0.14	2813	0.07491359	0.83783198	0.66561494	0.14643529	0.95605372
62_38	12/18/18	27	340	367	0.09	52	650	702	0.09	0.09	2836	0.07334299	0.83662076	0.66419713	0.14612337	0.61591792
62_39	5/11/19	140	1800	1940	0.14	49	560	609	0.12	0.13	2980	0.06423125	0.8290772	0.65557562	0.14422664	0.90135916
62_40	6/1/19	90	1300	1390	0.08	36	450	486	0.08	0.08	3001	0.06300059	0.8279828	0.65435326	0.14395772	0.55571873
62_41	8/14/19	120	1700	1820	0.12	29	490	519	0.1	0.11	3075	0.05884889	0.82413782	0.65011232	0.14302471	0.76909787
62_42	10/27/19	45	760	805	0.08	22	370	392	0.06	0.07	3149	0.05497079	0.82031071	0.6459703	0.14211346	0.49256416
62_43	11/4/19	70	990	1060	0.1	30	440	470	0.11	0.105	3157	0.05456716	0.81989803	0.64552819	0.1420162	0.73935226
62_44	12/13/19	39	600	639	0.07	50	850	900	0.06	0.065	3196	0.05264147	0.8178892	0.64338831	0.14154543	0.45921653
62_45	8/9/20	44	800	844	0.09	31	620	651	0.09	0.09	3436	0.04219953	0.80563507	0.63074131	0.13876309	0.64858747
62_46	10/26/20	31	520	551	0.1	17	330	347	0.09	0.095	3514	0.03927362	0.80169215	0.62680716	0.13789757	0.68891712
62_47	11/26/20	31	740	771	0.12	31	720	751	0.09	0.105	3545	0.0381679	0.80013045	0.6252655	0.13755841	0.76331211
62_48	12/19/20	42	820	862	0.11	23	560	583	0.1	0.105	3568	0.0373677	0.79897374	0.62412948	0.13730848	0.76470147
62_49	5/27/21	22	550	572	0.07	26	560	586	0.07	0.07	3727	0.03227623	0.79102295	0.61644826	0.13561862	0.51615332
62_50	6/7/21	21	660	681	0.1	30	740	770	0.09	0.095	3738	0.03195081	0.79047583	0.61592746	0.13550404	0.7010861
62_51	8/26/21	19	410	429	0.11	21	680	701	0.11	0.11	3818	0.02968076	0.78650815	0.61217866	0.1346793	0.81675503
62_52	10/10/21	27	570	597	0.1	19	570	589	0.09	0.095	3863	0.02847549	0.78428508	0.61009898	0.13422178	0.70778381
62_53	11/19/21	13	370	383	0.11	9	340	340	0.09	0.1	3903	0.02744529	0.7823143	0.60826725	0.13381879	0.74727919
62_54	12/26/21	23	660	683	0.12	20	500	520	0.1	0.11	3940	0.02652557	0.78049574	0.60658662	0.13344906	0.82428458
62_55	5/16/22	19	460	479	0.09	8.9	200	200	0.09	0.09	4081	0.02329446	0.7736042	0.600297	0.13206534	0.68148085
62_56	6/14/22	20	710	730	0.07	8	110	110	0.07	0.07	4110	0.02268037	0.77219436	0.59902491	0.13178548	0.53116625
62_57	8/9/22	20	680	700	0.07	6.9	29	29	0.08	0.075	4166	0.02153999	0.76947917	0.59658819	0.1312494	0.57143118
62_58	10/12/22	15	560	575	0.09	9	75	75	0.07	0.08	4230	0.02030673	0.76638778	0.59383414	0.13064351	0.61235341
62_59	11/7/22	11	280	291	0.1	7.5	160	160	0.05	0.075	4256	0.01982612	0.76513545	0.59272439	0.13039937	0.57515617
62_60	12/17/22	14	520	534	0.09	9.3	29	29	0.09	0.09	4296	0.01910884	0.76321279	0.59102703	0.13002595	0.69216954
62_61	5/10/23	10	530	540	0.09	6.6	57	57	0.08	0.085	4440	0.01673486	0.75633113	0.58501201	0.12870264	0.6604371
62_62	6/20/23	13	600	613	0.09	7.7	47	47	0.06	0.075	4481	0.01611457	0.75438314	0.58332545	0.1283316	0.58442349
62_63	8/31/23	16	660	676	0.09	9.2	89	89	0.07	0.08	4553	0.01508039	0.75097441	0.58039015	0.12768583	0.62653779
62_64	10/18/23	14	520	534	0.09	8.1	71	71	0.07	0.08	4601	0.01442808	0.74871049	0.57845143	0.12725931	0.62863768
62_65	11/10/23	14	580	594	0.1	7.2	62	62	0.07	0.085	4624	0.01412559	0.74762811	0.57752745	0.12705604	0.66899615
62_66	12/6/23	12	510	522	0.1	9.6	110	110	0.07	0.085	4650	0.01379127	0.74640644	0.57648677	0.12682709	0.67020382
62_67	5/28/24	9.1	480	480	0.1	8.9	55	55	0.09	0.095	4824	0.01174869	0.73828186	0.56962218	0.12531688	0.75807825
62_68	6/17/24	6.7	290	290	0.08	7.6	74	74	0.07	0.075	4844	0.01153421	0.73735369	0.56884382	0.12514564	0.59930173
62_69	8/24/24	13	590	603	0.09	8.9	64	64	0.06	0.075	4912	0.01083383	0.73420661	0.5662131	0.12456688	0.60208619

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
63_1	11/25/11	750	910	1660	0.23	850	1000	1850	0.24	0.235	256	0.78991109	0.98402655	1.00043595	0.23510245	0.99956424
63_2	1/18/12	610	860	1470	0.41	710	930	1640	0.4	0.405	310	0.75157724	0.98068988	0.98593561	0.23169487	1.74798865
63_3	5/5/12	11	520	750	0.34	7.5	300	440	0.35	0.345	418	0.68040019	0.97405043	0.95867147	0.22528779	1.53137457
63_4	7/18/12	11	700	1100	0.31	13	780	1200	0.23	0.27	492	0.6355623	0.96952715	0.94123522	0.22119028	1.22066848
63_5	10/16/12	12	680	1100	0.34	14	820	1400	0.3	0.32	582	0.58499273	0.96405416	0.9212853	0.21650205	1.47804608
63_6	11/8/12	17	1100	2000	0.38	9.1	340	600	0.33	0.355	605	0.57272813	0.96266047	0.91639601	0.21535306	1.64845578
63_7	12/20/12	14	1000	1900	0.24	9.1	400	710	0.28	0.26	647	0.55099155	0.96012067	0.90767724	0.21330415	1.21891674
63_8	1/24/13	16	1000	1800	0.29	21	2000	3800	0.22	0.255	682	0.53350926	0.95800929	0.90061226	0.21164388	1.20485411
63_9	5/8/13	290	570	860	0.174	390	810	1200	0.226	0.2	786	0.48476707	0.95176283	0.8806387	0.20695009	0.96641657
63_10	6/19/13	240	500	740	0.212	440	1000	1440	0.236	0.224	828	0.46636885	0.94925178	0.87298199	0.20515077	1.0918799
63_11	8/5/13	260	560	820	0.204	470	1000	1470	0.218	0.211	875	0.44660701	0.94644966	0.86467733	0.20319917	1.03839006
63_12	10/3/13	190	460	650	0.128	670	1500	2170	0.14	0.134	934	0.42298066	0.9429438	0.85462924	0.20083787	0.66720484
63_13	12/4/13	150	360	510	0.16	400	1000	1400	0.208	0.184	996	0.39949858	0.93927366	0.84450017	0.19845754	0.92715046
63_14	2/5/14	150	410	560	0.15	450	1100	1550	0.208	0.179	1059	0.37697268	0.93555897	0.83463483	0.19613918	0.91261724
63_15	5/11/15	160	560	720	0.14	330	1200	1530	0.17	0.155	1519	0.24675771	0.90887737	0.77361392	0.18179927	0.85258868
63_16	6/8/15	160	550	710	0.17	300	1100	1400	0.18	0.175	1547	0.24047412	0.90727806	0.77043032	0.18105112	0.96657781
63_17	8/2/15	210	900	1110	0.11	300	1300	1600	0.17	0.14	1602	0.22859339	0.90414476	0.76432704	0.17961685	0.77943687
63_18	10/13/15	180	760	940	0.14	260	1100	1360	0.17	0.155	1674	0.21392303	0.90005933	0.7566248	0.17780683	0.87173256
63_19	12/6/15	260	1100	1360	0.12	120	520	640	0.13	0.125	1728	0.20354148	0.89700737	0.75105094	0.17649697	0.70822745
63_20	2/6/16	150	770	920	0.1	210	1100	1310	0.14	0.12	1790	0.19224173	0.89351603	0.74485419	0.17504074	0.68555471
63_21	5/2/16	110	690	800	0.13	120	750	870	0.16	0.145	1876	0.17759893	0.8886957	0.73659716	0.17310033	0.83766448
63_22	6/1/16	88	470	558	0.11	210	1100	1310	0.14	0.125	1906	0.17275785	0.88702031	0.73380464	0.17244409	0.72487263
63_23	8/7/16	130	770	900	0.16	100	630	730	0.15	0.155	1973	0.16241723	0.88329001	0.72772351	0.17101502	0.90635312
63_24	10/22/16	130	780	910	0.17	160	1000	1160	0.17	0.17	2049	0.15143478	0.8790776	0.72107285	0.16945212	1.00323324
63_25	12/4/16	80	510	590	0.11	140	990	1130	0.14	0.125	2092	0.14555327	0.87670317	0.71742031	0.16859377	0.74142714
63_26	2/16/17	80	630	710	0.13	170	1000	1170	0.13	0.13	2166	0.13596141	0.87263195	0.71131111	0.16715811	0.7777068
63_27	5/1/17	120	840	960	0.17	110	810	920	0.17	0.17	2240	0.12700165	0.86857964	0.70541332	0.16577213	1.0255041
63_28	6/5/17	90	580	670	0.09	130	1000	1130	0.11	0.1	2275	0.12297204	0.86666956	0.70269369	0.16513302	0.60557241
63_29	8/6/17	92	650	742	0.09	120	910	1030	0.1	0.095	2337	0.11614516	0.86329631	0.69798094	0.16402552	0.57917816
63_30	10/3/17	120	890	1010	0.13	55	470	525	0.12	0.125	2395	0.11010224	0.86015257	0.69368837	0.16301677	0.76679229
63_31	12/13/17	48	470	518	0.08	76	670	746	0.09	0.085	2466	0.10313121	0.85631978	0.68857844	0.16181593	0.5252882
63_32	2/13/18	90	790	880	0.09	96	850	946	0.09	0.09	2528	0.09740581	0.85298681	0.68423972	0.16079633	0.55971426
63_33	5/1/18	71	670	741	0.13	38	310	348	0.11	0.12	2605	0.09073572	0.84886552	0.67900238	0.15956556	0.75204199
63_34	6/10/18	42	450	492	0.07	9.5	130	139.5	0.08	0.075	2645	0.08745304	0.84673246	0.67634451	0.15894096	0.47187333
63_35	8/27/18	66	710	776	0.13	7.7	59	59	0.1	0.115	2723	0.08138948	0.8425884	0.67127866	0.15775049	0.72899934
63_36	10/6/18	37	400	437	0.05	8.5	85	93.5	0.07	0.06	2763	0.07844493	0.84047111	0.66873822	0.15715348	0.38179237
63_37	11/25/18	49	530	579	0.14	6.5	81	87.5	0.08	0.11	2813	0.07491359	0.83783198	0.66561494	0.15641951	0.70323708
63_38	12/18/18	82	950	1032	0.06	13	150	163	0.06	0.06	2836	0.07334299	0.83662076	0.66419713	0.15608632	0.38440267
63_39	5/11/19	38	440	478	0.13	6.4	78	84.4	0.09	0.11	2980	0.06423125	0.8290772	0.65557562	0.15406027	0.71400627
63_40	6/1/19	48	750	798	0.09	5.4	99	99	0.06	0.075	3001	0.06300059	0.8279828	0.65435326	0.15377302	0.48773187
63_41	8/14/19	52	680	732	0.12	7.9	99	99	0.09	0.105	3075	0.05884889	0.82413782	0.65011232	0.15277639	0.68727895
63_42	10/27/19	5.9	84	84	0.06	5.9	25	25	0.04	0.05	3149	0.05497079	0.82031071	0.6459703	0.15180302	0.32937421
63_43	11/4/19	14	160	174	0.08	4.2	52	52	0.08	0.08	3157	0.05456716	0.81989803	0.64552819	0.15169913	0.52735967
63_44	12/13/19	15	210	225	0.04	7	110	117	0.05	0.045	3196	0.05264147	0.8178892	0.64338831	0.15119625	0.29762642
63_45	8/9/20	13	220	233	0.07	5.2	10	10	0.06	0.065	3436	0.04219953	0.80563507	0.63074131	0.14822421	0.43852486
63_46	10/26/20	17	320	337	0.11	7.9	150	157.9	0.08	0.095	3514	0.03927362	0.80169215	0.62680716	0.14729968	0.64494369
63_47	11/27/20	8.1	140	148.1	0.07	5.4	34	34	0.07	0.07	3546	0.03813276	0.80008013	0.62521597	0.14692575	0.47643111
63_48	12/19/20	13	260	273	0.06	5.9	49	49	0.08	0.07	3568	0.0373677	0.79897374	0.62412948	0.14667043	0.47726049
63_49	5/27/21	7.3	11	11	0.08	15	590	605	0.07	0.075	3727	0.03227623	0.79102295	0.61644826	0.14486534	0.51772218
63_50	6/8/21	7.8	170	177.8	0.07	8.5	110	110	0.07	0.07	3739	0.03192139	0.79042611	0.61588018	0.14473184	0.48365307
63_51	8/26/21	8.1	170	170	0.09	8.6	91	91	0.09	0.09	3818	0.02968076	0.78650815	0.61217866	0.14386198	0.6255996
63_52	10/10/21	8.8	120	120	0.06	8.5	38	38	0.08	0.07	3863	0.02847549	0.78428508	0.61009898	0.14337326	0.48823609
63_53	11/19/21	7.6	130	130	0.06	6.9	150	150	0.06	0.06	3903	0.02744529	0.7823143	0.60826725	0.1429428	0.41974831
63_54	12/19/21	8.2	83	83	0.08	8.2	23	23	0.07	0.075	3933	0.02669717	0.78083947	0.60690358	0.14262234	0.52586431
63_55	5/16/22	9.5	210	210	0.07	7.3	16	16	0.07	0.07	4081	0.02329446	0.7736042	0.600297	0.1410698	0.49620827
63_56	6/14/22	8.1	92	92	0.06	7	8.7	8.7	0.06	0.06	4110	0.02268037	0.77219436	0.5990249	0.14077085	0.42622459
63_57	8/9/22	20	860	880	0.07	7.5	36	36	0.06	0.065	4166	0.02153999	0.76947917	0.59658819	0.14019822	0.46362927
63_58	10/11/22	45	1600	1645	0.06	8.1	180	180	0.06	0.06	4229	0.02032545	0.76643599	0.59387693	0.13956108	0.42991929
63_59	11/7/22	26	1200	1226	0.13	8.4	63	63	0.07	0.1	4256	0.01982612	0.76513545	0.59272439	0.13929023	0.71792543
63_60	12/17/22	16	520	536	0.08	8.1	48	48	0.07	0.075	4296	0.01910884	0.76321279	0.59102703	0.13889135	0.53999042
63_61	5/10/23	62	2600	2662	0.09	9.4	79	79	0.07	0.08	4440	0.01673486	0.75633113	0.58501201	0.13747782	0.58191204
63_62	6/20/23	40	1700	1740	0.09	8.7	55	55	0.07	0.08	4481	0.01611457	0.75438314	0.58332545	0.13708148	0.58359452
63_63	8/31/23	8	560	560	0.1	6.6	31	31	0.07	0.085	4553	0.01508039	0.75097441	0.58039015	0.13639169	0.62320514
63_64	10/18/23	28	1400	1428	0.1	6.9	57	57	0.07	0.085	4601	0.01442808	0.74871049	0.57845143	0.13593608	0.62529387
63_65	11/10/23	17	920	937	0.11	6.8	140	140	0.07	0.09	4624	0.01412559	0.74762811	0.57752745	0.13571895	0.66313511
63_66	12/6/23	17	1100	1117	0.08	8	83	83	0.07	0.075	4650	0.01379127	0.74640644	0.57648677	0.13547439	0.55361017
63_67	5/28/24	17	1300	1317	0.11	9.3	82	82	0.08	0.095	4824	0.01174869	0.73828186	0.56962218	0.13386121	0.70969027
63_68	6/20/24	25	1200	1225	0.09	8.1	210	210	0.07	0.08	4847	0.01150237	0.73721456	0.56872725	0.1336509	0.59857432
63_69	8/24/24	17	910	927	0.09	8.4	48	48	0.07	0.08	4912	0.01083383	0.73420661	0.5662131	0.13306008	0.60123217

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
64_1	11/24/11	1700	2100	3800	0.3	1900	2400	4300	0.28	0.29	255	0.79063912	0.98408845	1.00071021	0.29020596	0.99929029
64_2	1/18/12	1600	2200	3800	0.51	810	1100	1910	0.47	0.49	310	0.75157724	0.98068988	0.98593561	0.28592133	1.71375814
64_3	5/2/12	19	1400	2000	0.38	23	2100	3100	0.34	0.36	415	0.68228321	0.97423425	0.95939901	0.27822571	1.29391347
64_4	5/10/12	21	1200	1800	0.38	18	1200	1800	0.42	0.4	423	0.67727337	0.97374414	0.95746254	0.27766414	1.44058936
64_5	6/7/12	15	830	1200	0.42	16	1000	1600	0.44	0.43	451	0.66002687	0.97203069	0.95077607	0.27572506	1.55952454
64_6	7/18/12	9.5	430	640	0.26	9.2	400	610	0.46	0.36	492	0.6355623	0.96952715	0.94123522	0.27295821	1.31888319
64_7	8/7/12	18	1300	2200	0.48	12	730	1100	0.36	0.42	512	0.62395954	0.96830825	0.93668612	0.27163897	1.54616988
64_8	8/30/12	13	890	1400	0.34	9.4	430	670	0.3	0.32	535	0.61087798	0.96690841	0.9315376	0.2701459	1.18454507
64_9	10/16/12	15	880	1500	0.3	9.9	610	980	0.33	0.315	582	0.58499273	0.96405416	0.9212853	0.26717274	1.17901251
64_10	11/20/12	6.5	110	190	0.32	9.2	400	700	0.28	0.3	617	0.56643162	0.96193413	0.9138776	0.2650245	1.1319708
64_11	12/12/12	21	1500	2500	0.36	25	2100	3800	0.39	0.375	639	0.55506727	0.96060393	0.90931744	0.26370206	1.42205944
64_12	1/10/13	10	360	660	0.3	6.7	210	350	0.34	0.32	668	0.5404346	0.95885329	0.90341677	0.26199086	1.22141663
64_13	2/20/13	11	410	700	0.3	11	510	980	0.35	0.325	709	0.52040284	0.95638369	0.89528293	0.25963205	1.2517715
64_14	4/26/13	780	1600	2380	0.218	610	1300	1910	0.224	0.221	774	0.49015578	0.95248149	0.88286841	0.25603184	0.86317389
64_15	6/19/13	290	620	910	0.238	340	710	1050	0.25	0.244	828	0.46636885	0.94925178	0.87298199	0.25316478	0.96379916
64_16	6/25/13	410	910	1320	0.24	240	480	720	0.198	0.219	834	0.46379816	0.9488936	0.87190655	0.2528529	0.86611623
64_17	7/8/13	230	510	740	0.246	240	510	750	0.236	0.241	847	0.45827685	0.94811801	0.86959188	0.25218165	0.95566035
64_18	8/20/13	790	1700	2490	0.222	320	720	1040	0.232	0.227	890	0.44047803	0.9455571	0.86208369	0.25000427	0.90798449
64_19	9/10/13	620	1400	2020	0.23	440	1000	1440	0.214	0.222	911	0.43203852	0.94430894	0.85849762	0.24896431	0.89169407
64_20	10/3/13	770	1700	2470	0.18	410	980	1390	0.138	0.159	934	0.42298066	0.9429438	0.85462924	0.24784248	0.64153651
64_21	12/4/13	220	550	770	0.232	350	850	1200	0.23	0.231	996	0.39949858	0.93927366	0.84450017	0.24490505	0.94322269
64_22	1/8/14	300	700	1000	0.25	240	640	880	0.22	0.235	1031	0.38682297	0.93720813	0.8389678	0.24330066	0.9658831
64_23	2/5/14	360	830	1190	0.202	270	620	890	0.214	0.208	1059	0.37697268	0.93555897	0.83463483	0.2420441	0.85934753
64_24	4/30/15	550	2100	2650	0.21	400	1500	1900	0.18	0.195	1508	0.24927095	0.90950644	0.77487913	0.22471495	0.86776604
64_25	5/14/15	160	650	810	0.18	110	410	520	0.17	0.175	1522	0.24607669	0.90870588	0.77327029	0.22424838	0.78038467
64_26	6/8/15	300	1300	1600	0.18	350	1300	1650	0.2	0.19	1547	0.24047412	0.90727806	0.77043032	0.22342479	0.85039801
64_27	7/11/15	320	1200	1520	0.16	120	500	620	0.15	0.155	1580	0.23327357	0.90539678	0.76674489	0.22235602	0.6970803
64_28	8/2/15	290	1100	1390	0.16	160	670	830	0.16	0.16	1602	0.22859339	0.90414476	0.76432704	0.22165484	0.72184302
64_29	9/5/15	200	770	970	0.15	300	1200	1500	0.14	0.145	1636	0.2215444	0.90221322	0.76065031	0.22058859	0.65733228
64_30	10/14/15	130	610	740	0.17	320	1300	1620	0.17	0.17	1675	0.21372604	0.90000271	0.75652003	0.21939081	0.77487294
64_31	12/6/15	270	1200	1470	0.14	160	730	890	0.13	0.135	1728	0.20354148	0.89700737	0.75105094	0.21780477	0.61982113
64_32	1/15/16	190	860	1050	0.17	180	850	1030	0.2	0.185	1768	0.19617765	0.89475334	0.74702889	0.21663838	0.85395765
64_33	2/7/16	190	800	990	0.13	150	650	800	0.12	0.125	1791	0.19206471	0.89345983	0.74475596	0.21597923	0.57875936
64_34	4/29/16	180	880	1060	0.15	54	240	294	0.14	0.145	1873	0.17809044	0.88886341	0.73687885	0.21369487	0.67853759
64_35	5/16/16	110	570	680	0.17	110	610	720	0.17	0.17	1890	0.1753231	0.88791346	0.73528849	0.21323366	0.79724748
64_36	6/1/16	120	620	740	0.14	100	510	610	0.2	0.17	1906	0.17275785	0.88702031	0.73380464	0.21280334	0.79885963
64_37	7/9/16	170	930	1100	0.14	160	830	990	0.18	0.16	1944	0.16681479	0.88490269	0.73032979	0.21179564	0.75544521
64_38	8/6/16	150	890	1040	0.16	36	250	286	0.16	0.16	1972	0.16256692	0.88334557	0.72781273	0.21106569	0.75805782
64_39	9/3/16	120	650	770	0.14	180	1000	1180	0.12	0.13	2000	0.15842722	0.88179119	0.72533148	0.21034613	0.61802896
64_40	10/22/16	260	1400	1660	0.15	120	840	960	0.15	0.15	2049	0.15143478	0.8790776	0.72107285	0.20911113	0.71732194
64_41	12/4/16	310	2000	2310	0.14	160	1000	1160	0.12	0.13	2092	0.14555327	0.87670317	0.71742031	0.20805189	0.62484412
64_42	1/15/17	78	550	628	0.12	92	570	662	0.11	0.115	2134	0.14002913	0.87439016	0.71392619	0.20703859	0.55545199
64_43	2/22/17	140	850	990	0.12	140	990	1130	0.14	0.13	2172	0.13521197	0.87230268	0.71082522	0.20613931	0.63064147
64_44	4/24/17	150	950	1100	0.13	96	690	786	0.12	0.125	2233	0.12782328	0.86896216	0.70596253	0.20472913	0.61056283
64_45	5/12/17	100	760	860	0.16	81	610	691	0.17	0.165	2251	0.12572117	0.86797888	0.70455387	0.20432062	0.80755432
64_46	6/5/17	77	610	687	0.11	100	770	870	0.1	0.105	2275	0.12297204	0.86666956	0.70269369	0.20378117	0.51525859
64_47	7/13/17	140	1100	1240	0.13	74	650	724	0.12	0.125	2313	0.11874167	0.86460052	0.69978966	0.202939	0.61594863
64_48	8/6/17	57	590	647	0.11	110	690	800	0.12	0.115	2337	0.11614516	0.86329631	0.69798094	0.20241447	0.56814119
64_49	9/1/17	120	1100	1220	0.1	63	530	593	0.1	0.1	2363	0.1133963	0.86188563	0.69604315	0.20185251	0.49541122
64_50	10/8/17	39	390	429	0.12	61	600	661	0.12	0.12	2400	0.10959626	0.85988209	0.69332339	0.20106378	0.59682553
64_51	12/13/17	70	650	720	0.11	78	640	718	0.12	0.115	2466	0.10313121	0.85631978	0.68857844	0.19968775	0.57589913
64_52	1/12/18	140	1300	1440	0.12	130	1100	1230	0.11	0.115	2496	0.10032001	0.85470543	0.68646509	0.19907488	0.57767209
64_53	2/12/18	33	350	383	0.1	31	230	261	0.11	0.105	2527	0.09749558	0.85304046	0.68430882	0.19844956	0.52910171
64_54	4/24/18	87	820	907	0.11	85	760	845	0.12	0.115	2598	0.09132273	0.84923936	0.67947184	0.19704683	0.5836176
64_55	5/14/18	34	370	404	0.13	40	400	440	0.13	0.13	2618	0.08965555	0.84817169	0.67813398	0.19665885	0.66104321
64_56	6/10/18	100	950	1050	0.11	79	740	819	0.1	0.105	2645	0.08745304	0.84673246	0.67634451	0.19613991	0.53533216
64_57	7/14/18	79	850	929	0.14	59	640	699	0.12	0.13	2679	0.0847563	0.84492357	0.67411769	0.19549413	0.6649816
64_58	8/7/18	46	500	546	0.16	27	370	397	0.17	0.165	2703	0.08290295	0.84364904	0.67256325	0.19504334	0.84596582
64_59	9/2/18	120	1400	1520	0.11	79	960	1039	0.09	0.1	2729	0.08094085	0.84227046	0.67089517	0.1945596	0.51398132
64_60	10/6/18	50	630	680	0.09	69	770	839	0.09	0.09	2763	0.07844493	0.84047111	0.66873822	0.19393408	0.46407521
64_61	12/18/18	72	860	932	0.1	45	510	555	0.1	0.1	2836	0.07334299	0.83662076	0.66419713	0.19261717	0.51916453
64_62	1/14/19	59	680	739	0.14	80	870	950	0.1	0.12	2863	0.07154122	0.83520114	0.66254753	0.19213878	0.62454856
64_63	2/1/19	60	580	640	0.14	85	1100	1185	0.14	0.14	2881	0.0703647	0.83425606	0.6614565	0.19182239	0.72984182
64_64	4/25/19	21	270	291	0.09	44	560	604	0.09	0.09	2964	0.06518501	0.82991201	0.65651271	0.19038869	0.47271717
64_65	5/11/19	100	1500	1600	0.14	80	920	1000	0.13	0.135	2980	0.06423125	0.8290772	0.65557562	0.19011693	0.71008931
64_66	6/1/19	39	530	569	0.09	21	310	331	0.09	0.09	3001	0.06300059	0.8279828	0.65435326	0.18976245	0.47427719
64_67	7/15/19	59	790	849	0.12	65	840	905	0.12	0.12	3045	0.06049798	0.82569444	0.65181936	0.18902761	0.63482788
64_68	8/13/19	98	1600	1698	0.13	130	1800	1930	0.11	0.12	3074	0.05890313	0.82418966	0.65016895	0.188549	0.63643935
64_69	9/7/19	72	1100	1172	0.13	62	920	982	0.11	0.12	3099	0.05756205	0.82289464	0.6487584	0.18813994	0.63782311
64_70	10/27/19	38	510	548	0.06	41	610	651	0.07	0.065	3149	0.05497079	0.82031071	0.6459703	0.18733139	0.3469787
64_71	12/13/19	31	500	531	0.08	34	590	624	0.06	0.07	3196	0.05264147	0.8178892	0.64338831	0.18658261	0.37516894
64_72	1/28/20	55	970	1025	0.11	49	830	879	0.15	0.13	3242	0.05045731	0.81552614	0.64089636	0.18585994	0.69945141
64_73	2/17/20	40	640	680	0.12	69	1200	1269	0.14	0.13	3262	0.04953617	0.81450086	0.63982341	0.18554879	0.70062436
64_74	7/17/20	58	1100	1158	0.11	53	960	1013	0.11	0.11	3413	0.0431032	0.80680143	0.63191696	0.18325592	0.60025346
64_75	8/9/20	14	220	234	0.1	17	330	347	0.1	0.1	3436	0.04219953	0.80563507	0.63074131	0.18291498	0.54670208
64_76	9/29/20	41	780	821	0.12	75	1400	1475	0.13	0.125	3487	0.04026273	0.80305482	0.62815992	0.18216638	0.68618591
64_77	10/26/20	35	650	685	0.11	41	810	851	0.13	0.12	3514	0.03927362	0.80169215	0.62680716	0.18177408	0.66016014
64_78	11/26/20	52	1100	1152	0.12	30	520	550	0.11	0.115	3545	0.0381679	0.80013045	0.6252655	0.18132699	0.63421335
64_79	12/20/20	25	670	695	0.1	17	430	447	0.1	0.1	3569	0.03733329	0.79892349	0.62408023	0.18098327	0.55253727
64_80	1/23/21	31	640	671	0.11	19	320	339	0.11	0.11	3603	0.03618207	0.79721673	0.6224132	0.18049983	0.60941887
64_81	2/7/21	32	610	642	0.12	17	390	407	0.11	0.115	3618	0.03568552	0.79646491	0.62168217	0.18028783	0.63786891
64_82	4/23/21	22	430	452	0.1	4.8	70	70	0.07	0.085	3693	0.03330318	0.79271644	0.61806642	0.17923926	0.47422646
64_83	5/27/21	14	340	354	0.08	28	880	908	0.11	0.095	3727	0.03227623	0.79102295	0.61644826	0.17877	0.53140908
64_84	6/8/21	30	750	780	0.12	12	340	352	0.12	0.12	3739	0.03192139	0.79042611	0.61588018	0.17860525	0.67187273
64_85	7/17/21	23	750	773	0.1	19	490	509	0.11	0.105	3778	0.03079488	0.78848949	0.61404463	0.17807294	0.58964601
64_86	8/26/21	11	310	321	0.11	27	640	667	0.11	0.11	3818	0.02968076	0.78650815	0.61217866	0.17753181	0.61960727
64_87	9/20/21	19	650	669	0.1	94	2600	2694	0.11	0.105	3843	0.029005	0.78527233	0.61102077	0.17719602	0.59256409
64_88	10/10/21	23	590	613	0.11	32	880	912	0.11	0.11	3863	0.02847549	0.78428508	0.61009898	0.17692871	0.62171935
64_89	12/19/21	20	430	450	0.12	9.3	300	300	0.11	0.115	3933	0.02669717	0.78083947	0.60690358	0.17600204	0.65340152
64_90	1/13/22	29	720	749	0.11	6.8	150	150	0.1	0.105	3958	0.02608934	0.77961256	0.60577368	0.17567437	0.59769676
64_91	2/15/22	30	530	560	0.11	11	320	331	0.11	0.11	3991	0.02530815	0.777996	0.60429106	0.17524441	0.62769478
64_92	4/27/22	22	740	762	0.11	9.3	380	389.3	0.11	0.11	4062	0.02370578	0.77452929	0.60113431	0.17432895	0.63099101
64_93	5/16/22	160	5600	5760	0.1	14	410	424	0.1	0.1	4081	0.02329446	0.7736042	0.600297	0.17408613	0.5744283
64_94	6/8/22	15	240	255	0.11	8.7	240	248.7	0.11	0.11	4104	0.02280608	0.77248584	0.59928752	0.17379338	0.63293549
64_95	7/1/22	110	3300	3410	0.08	11	420	431	0.07	0.075	4127	0.02232795	0.77136909	0.59828247	0.17350192	0.43227188
64_96	8/9/22	23	900	923	0.08	7.4	220	220	0.09	0.085	4166	0.02153999	0.76947917	0.59658819	0.17301058	0.49129945
64_97	9/14/22	14	630	644	0.08	9.4	450	459.4	0.07	0.075	4202	0.02083735	0.76773873	0.59503508	0.17256017	0.43463099
64_98	10/12/22	33	1100	1133	0.08	13	500	513	0.08	0.08	4230	0.02030673	0.76638778	0.59383414	0.1722119	0.46454397
64_99	12/19/22	14	710	724	0.11	20	500	520	0.09	0.1	4298	0.01907367	0.76311678	0.59094248	0.17137332	0.58352141
64_100	1/19/23	21	880	901	0.11	8.6	55	55	0.11	0.11	4329	0.01853666	0.76163023	0.5896356	0.17099432	0.64329621
64_101	2/6/23	27	850	877	0.11	8	320	320	0.1	0.105	4347	0.01823182	0.7607684	0.58887996	0.17077519	0.61484342
64_102	4/24/23	13	620	633	0.12	13	510	523	0.12	0.12	4424	0.01698336	0.75709268	0.58567323	0.16984524	0.70652556
64_103	5/10/23	16	680	696	0.11	20	610	630	0.09	0.1	4440	0.01673486	0.75633113	0.58501201	0.16965348	0.58943677
64_104	6/20/23	16	540	556	0.1	39	1100	1139	0.09	0.095	4481	0.01611457	0.75438314	0.58332545	0.16916438	0.56158395
64_105	7/18/23	14	1100	1114	0.1	75	3700	3775	0.09	0.095	4509	0.01570422	0.75305569	0.58217999	0.1688322	0.56268888
64_106	8/31/23	27	1400	1427	0.09	9	470	470	0.08	0.085	4553	0.01508039	0.75097441	0.58039015	0.16831314	0.50501106
64_107	9/20/23	28	2100	2128	0.11	18	1400	1418	0.09	0.1	4573	0.01480508	0.75003028	0.57958062	0.16807838	0.59496052
64_108	10/18/23	18	820	838	0.1	18	980	998	0.09	0.095	4601	0.01442808	0.74871049	0.57845143	0.16775091	0.56631584
64_109	12/6/23	20	980	1000	0.09	9.6	600	609.6	0.09	0.09	4650	0.01379127	0.74640644	0.57648677	0.16718116	0.53833816
64_110	1/16/24	19	970	989	0.1	8.8	250	250	0.1	0.1	4691	0.01328008	0.74448401	0.57485379	0.1667076	0.59985268
64_111	2/1/24	9.3	690	690	0.11	13	540	553	0.1	0.105	4707	0.01308577	0.74373514	0.57421918	0.16652356	0.6305414
64_112	4/23/24	9.7	650	659.7	0.09	8	320	320	0.09	0.09	4789	0.01213368	0.73990898	0.57098945	0.16558694	0.54352112
64_113	5/28/24	21	990	1011	0.12	8.5	270	270	0.11	0.115	4824	0.01174869	0.73828186	0.56962218	0.16519043	0.69616623
64_114	6/17/24	23	1300	1323	0.09	8.3	450	450	0.08	0.085	4844	0.01153421	0.73735369	0.56884382	0.16496471	0.51526172
64_115	7/5/24	7.3	650	657.3	0.08	8.2	630	630	0.09	0.085	4862	0.01134452	0.73651933	0.56814512	0.16476208	0.51589539
64_116	8/24/24	16	630	646	0.1	18	770	788	0.07	0.085	4912	0.01083383	0.73420661	0.5662131	0.1642018	0.51765571
64_117	9/26/24	19	830	849	0.09	16	490	506	0.08	0.085	4945	0.01050943	0.7326842	0.56494497	0.16383404	0.5188177

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
65_1	11/24/11	1700	2200	3900	0.51	2100	2600	4700	0.48	0.495	255	0.79063912	0.98408845	1.00071021	0.49535155	0.99929029
65_2	1/18/12	1500	1900	3400	0.83	2400	3100	5500	0.78	0.805	310	0.75157724	0.98068988	0.98593561	0.48803813	1.6494613
65_3	2/29/12	1100	1600	2700	0.7	1300	1800	3100	0.68	0.69	352	0.72305285	0.97810251	0.97506571	0.48265752	1.42958509
65_4	5/4/12	21	1900	2700	0.55	26	3500	5000	0.6	0.575	417	0.68102728	0.9741117	0.9589138	0.47466233	1.21138747
65_5	7/18/12	17	760	1200	0.57	21	2000	3200	0.61	0.59	492	0.6355623	0.96952715	0.94123522	0.46591144	1.26633509
65_6	9/25/12	19	1500	2500	0.57	16	1200	2100	0.6	0.585	561	0.59642008	0.96532842	0.9258222	0.45828199	1.27650664
65_7	11/1/12	18	1200	2000	0.58	24	2100	3500	0.6	0.59	598	0.57643336	0.96308443	0.91787533	0.45434829	1.29856327
65_8	12/26/12	18	1100	2000	0.54	20	1600	2700	0.59	0.565	653	0.54795441	0.95975839	0.90645333	0.4486944	1.25920895
65_9	1/23/13	21	1400	2600	0.55					0.55	681	0.53400097	0.95806955	0.90081164	0.44590176	1.23345554
65_10	5/1/13	1000	2200	3200	0.544	900	1700	2600	0.416	0.48	779	0.48790324	0.95218199	0.88193706	0.43655884	1.09950814
65_11	6/19/13	1100	2300	3400	0.596	940	2000	2940	0.482	0.539	828	0.46636885	0.94925178	0.87298199	0.43212609	1.24732113
65_12	8/5/13	1200	2700	3900	0.456	1600	3400	5000	0.344	0.4	875	0.44660701	0.94644966	0.86467733	0.42801528	0.93454608
65_13	10/3/13	1100	2700	3800	0.456	1100	2400	3500	0.364	0.41	934	0.42298066	0.9429438	0.85462924	0.42304147	0.96917211
65_14	12/5/13	650	1600	2250	0.536	1200	2900	4100	0.41	0.473	997	0.39913071	0.93921459	0.84434028	0.41794844	1.13171855
65_15	2/5/14	720	1900	2620	0.494	960	2300	3260	0.362	0.428	1059	0.37697268	0.93555897	0.83463483	0.41314424	1.03595781
65_16	5/9/15	420	1600	2020	0.47	550	1900	2450	0.31	0.39	1517	0.24721277	0.90899171	0.77384334	0.38305245	1.01813732
65_17	6/8/15	500	1900	2400	0.48	710	2500	3210	0.34	0.41	1547	0.24047412	0.90727806	0.77043032	0.38136301	1.07509116
65_18	8/18/15	580	2300	2880	0.38	220	930	1150	0.24	0.31	1618	0.2252487	0.90323529	0.76258785	0.37748099	0.82123342
65_19	10/11/15	510	2200	2710	0.36	420	1700	2120	0.26	0.31	1672	0.21431753	0.90017256	0.7568345	0.37463308	0.82747631
65_20	12/15/15	530	2300	2830	0.31	300	1200	1500	0.23	0.27	1737	0.20186088	0.89649972	0.7501382	0.37131841	0.72713874
65_21	1/16/16	420	1900	2320	0.35	310	1400	1710	0.24	0.295	1769	0.19599701	0.89469706	0.74692947	0.36973009	0.79787934
65_22	5/3/16	450	2200	2650	0.34	220	1100	1320	0.22	0.28	1877	0.17743539	0.8886398	0.73650336	0.36456916	0.76802985
65_23	6/2/16	370	1900	2270	0.38	470	2400	2870	0.2	0.29	1907	0.17259877	0.88696452	0.73371231	0.36318759	0.79848543
65_24	8/15/16	650	3600	4250	0.47	570	3200	3770	0.23	0.35	1981	0.16122464	0.88284565	0.72701133	0.35987061	0.97257179
65_25	10/4/16	1300	7700	9000	0.37	280	1500	1780	0.21	0.29	2031	0.15396682	0.88007346	0.7226251	0.35769942	0.81073656
65_26	12/3/16	430	2900	3330	0.35	340	2100	2440	0.19	0.27	2091	0.14568742	0.87675832	0.71750438	0.35516467	0.76021075
65_27	1/28/17	320	2200	2520	0.3	110	720	830	0.2	0.25	2147	0.13836214	0.87367546	0.71285898	0.35286519	0.70848586
65_28	5/2/17	360	2700	3060	0.27	250	1800	2050	0.16	0.215	2241	0.12688471	0.86852501	0.70533501	0.34914083	0.61579736
65_29	6/1/17	340	2300	2640	0.26	130	940	1070	0.14	0.2	2271	0.12342602	0.86688765	0.70300231	0.34798614	0.57473553
65_30	8/1/17	550	4100	4650	0.26	210	1500	1710	0.14	0.2	2332	0.11668137	0.86356786	0.69835616	0.3456863	0.57855923
65_31	10/28/17	930	7300	8230	0.23	93	810	903	0.12	0.175	2420	0.10759548	0.85880104	0.69187135	0.34247632	0.51098424
65_32	12/1/17	400	3200	3600	0.24	250	2100	2350	0.15	0.195	2454	0.10427763	0.85696637	0.68943126	0.34126848	0.57139764
65_33	1/28/18	200	1700	1900	0.14	250	2100	2350	0.11	0.125	2512	0.09885217	0.85384568	0.68534872	0.33924762	0.36846242
65_34	5/1/18	170	1600	1770	0.17	210	2000	2210	0.14	0.155	2605	0.09073572	0.84886552	0.67900238	0.33610618	0.46116379
65_35	6/10/18	210	1900	2110	0.19	150	1500	1650	0.13	0.16	2645	0.08745304	0.84673246	0.67634451	0.33479053	0.47791077
65_36	8/25/18	86	1100	1186	0.28	120	1400	1520	0.17	0.225	2721	0.08153957	0.8426944	0.67140668	0.33234631	0.67700466
65_37	10/7/18	370	4100	4470	0.22	110	1200	1310	0.13	0.175	2764	0.07837269	0.84041825	0.66867519	0.33099422	0.52871014
65_38	11/25/18	120	1300	1420	0.28	130	1400	1530	0.19	0.235	2813	0.07491359	0.83783198	0.66561494	0.32947939	0.71324643
65_39	12/19/18	300	3700	4000	0.21	94	1100	1194	0.13	0.17	2837	0.07327546	0.83656814	0.66413575	0.32874719	0.51711468
65_40	5/6/19	150	1800	1950	0.16	110	1500	1610	0.12	0.14	2975	0.06452779	0.82933799	0.65586792	0.32465462	0.4312275
65_41	6/1/19	290	4000	4290	0.21	54	810	864	0.12	0.165	3001	0.06300059	0.8279828	0.65435326	0.32390486	0.50940884
65_42	8/13/19	230	3300	3530	0.29	110	1600	1710	0.16	0.225	3074	0.05890313	0.82418966	0.65016895	0.32183363	0.69911898
65_43	10/30/19	150	2500	2650	0.15	110	1700	1810	0.11	0.13	3152	0.05481908	0.82015593	0.64580438	0.31967317	0.40666535
65_44	11/19/19	32	430	462	0.16	100	1600	1700	0.16	0.16	3172	0.05381831	0.81912482	0.64470216	0.31912757	0.5013669
65_45	12/13/19	16	240	256	0.09	60	910	970	0.1	0.095	3196	0.05264147	0.8178892	0.64338831	0.31847721	0.2982945
65_46	8/9/20	24	420	444	0.12	57	920	977	0.12	0.12	3436	0.04219953	0.80563507	0.63074131	0.31221695	0.38434813
65_47	10/22/20	140	3100	3240	0.21	80	1900	1980	0.13	0.17	3510	0.03941861	0.80189388	0.62700697	0.31036845	0.54773608
65_48	11/24/20	76	1500	1576	0.27	52	1000	1052	0.15	0.21	3543	0.03823829	0.80023111	0.62536459	0.30955547	0.67839214
65_49	12/19/20	80	1900	1980	0.19	68	1500	1568	0.14	0.165	3568	0.0373677	0.79897374	0.62412948	0.30894409	0.53407722
65_50	5/21/21	20	340	360	0.2	50	1500	1550	0.19	0.195	3721	0.03245513	0.79132154	0.61673289	0.30528278	0.63875204
65_51	6/7/21	27	590	617	0.12	39	1000	1039	0.12	0.12	3738	0.03195081	0.79047583	0.61592746	0.30488409	0.39359219
65_52	8/26/21	60	1600	1660	0.25	39	1200	1239	0.15	0.2	3818	0.02968076	0.78650815	0.61217866	0.30302844	0.66000407
65_53	10/24/21	180	4700	4880	0.13	70	1800	1870	0.19	0.16	3877	0.0281106	0.78359474	0.6094561	0.30168077	0.53036195
65_54	11/19/21	260	6600	6860	0.15	45	1100	1145	0.21	0.18	3903	0.02744529	0.7823143	0.60826725	0.30109229	0.59782335
65_55	12/20/21	20	660	680	0.2	26	690	716	0.15	0.175	3934	0.02667259	0.78079035	0.60685827	0.30039485	0.58256659
65_56	5/16/22	79	3200	3279	0.1	57	1400	1457	0.1	0.1	4081	0.02329446	0.7736042	0.600297	0.29714702	0.33653375
65_57	6/10/22	220	6500	6720	0.1	37	1400	1437	0.09	0.095	4106	0.0227641	0.77238867	0.59919995	0.29660398	0.3202924
65_58	8/10/22	240	9200	9440	0.12	35	1100	1135	0.12	0.12	4167	0.02152015	0.76943077	0.59654491	0.29528973	0.40638054
65_59	10/12/22	98	3600	3698	0.11	53	2000	2053	0.11	0.11	4230	0.02030673	0.76638778	0.59383414	0.2939479	0.37421597
65_60	11/7/22	230	10000	10230	0.14	37	1400	1437	0.18	0.16	4256	0.01982612	0.76513545	0.59272439	0.29339857	0.54533326
65_61	12/23/22	58	2300	2358	0.17	18	880	898	0.16	0.165	4302	0.01900351	0.76292481	0.59077345	0.29243286	0.56423208
65_62	5/16/23	57	2500	2557	0.12	40	1900	1940	0.13	0.125	4446	0.01664262	0.75604574	0.5847645	0.28945843	0.43184095
65_63	6/21/23	95	4500	4595	0.12	23	1200	1223	0.12	0.12	4482	0.01609973	0.75433569	0.58328445	0.2887258	0.41561924
65_64	8/26/23	89	5000	5089	0.11	60	2500	2560	0.12	0.115	4548	0.01515001	0.75121063	0.58059293	0.2873935	0.40014823
65_65	10/24/23	160	8900	9060	0.16	20	1400	1420	0.13	0.145	4607	0.01434855	0.74842798	0.57821008	0.28621399	0.50661395
65_66	11/10/23	83	4600	4683	0.16	32	1300	1332	0.13	0.145	4624	0.01412559	0.74762811	0.57752745	0.28587609	0.50721277
65_67	12/6/23	200	11000	11200	0.17	38	1200	1238	0.13	0.15	4650	0.01379127	0.74640644	0.57648677	0.28536095	0.52565006
65_68	5/27/24	31	2700	2731	0.18	15	740	755	0.13	0.155	4823	0.01175952	0.7383283	0.56966115	0.28198227	0.54967995
65_69	6/20/24	53	4400	4453	0.16	9.8	780	789.8	0.1	0.13	4847	0.01150237	0.73721456	0.56872725	0.28151999	0.46177893
65_70	8/23/24	60	3800	3860	0.15	17	1500	1517	0.09	0.12	4911	0.01084381	0.7342528	0.56625162	0.28029455	0.42812106

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
66_1	11/24/11	2100	2700	4800	0.34	1800	2400	4200	0.37	0.355	255	0.79063912	0.98408845	1.00071021	0.35525212	0.99929029
66_2	1/18/12	2000	2600	4600	0.58	1400	1900	3300	0.58	0.58	310	0.75157724	0.98068988	0.98593561	0.35000714	1.65710905
66_3	2/29/12	1400	2000	3400	0.47	3000	4200	7200	0.47	0.47	352	0.72305285	0.97810251	0.97506571	0.34614833	1.35779943
66_4	5/3/12	21	1600	2300	0.52	17	1200	1800	0.48	0.5	416	0.68165496	0.97417297	0.95915631	0.34050049	1.46842666
66_5	7/19/12	21	2700	4300	0.38	11	680	1100	0.33	0.355	493	0.63497707	0.96946617	0.94100615	0.33405718	1.06269231
66_6	9/25/12	19	2100	3500	0.36	14	1000	1700	0.4	0.38	561	0.59642008	0.96532842	0.9258222	0.32866688	1.15618586
66_7	11/1/12	25	3000	5100	0.4	20	1400	2400	0.42	0.41	598	0.57643336	0.96308443	0.91787533	0.32584574	1.2582641
66_8	12/26/12	17	1500	2700	0.37	15	790	1400	0.43	0.4	653	0.54795441	0.95975839	0.90645333	0.32179093	1.24304311
66_9	1/23/13	19	2000	3600	0.35	19	1600	3000	0.34	0.345	681	0.53400097	0.95806955	0.90081164	0.31978813	1.07883928
66_10	5/1/13	1400	2800	4200	0.406	1600	3300	4900	0.354	0.38	779	0.48790324	0.95218199	0.88193706	0.31308766	1.21371761
66_11	6/19/13	1200	2600	3800	0.442	970	2000	2970	0.354	0.398	828	0.46636885	0.94925178	0.87298199	0.30990861	1.28424958
66_12	8/5/13	1200	2600	3800	0.354	1100	2300	3400	0.342	0.348	875	0.44660701	0.94644966	0.86467733	0.30696045	1.13369654
66_13	10/3/13	680	1400	2080	0.3	450	1100	1550	0.32	0.31	934	0.42298066	0.9429438	0.85462924	0.30339338	1.02177575
66_14	12/5/13	340	760	1100	0.29	220	500	720	0.344	0.317	997	0.39913071	0.93921459	0.84434028	0.2997408	1.05758042
66_15	2/5/14	300	680	980	0.302	610	1600	2210	0.258	0.28	1059	0.37697268	0.93555897	0.83463483	0.29629536	0.94500298
66_16	5/9/15	230	820	1050	0.29	260	940	1200	0.29	0.29	1517	0.24721277	0.90899171	0.77384334	0.27471439	1.05564184
66_17	6/13/15	180	770	950	0.28	440	1700	2140	0.29	0.285	1552	0.23936901	0.90699277	0.76986733	0.2733029	1.04279903
66_18	8/16/15	220	830	1050	0.21	780	3400	4180	0.25	0.23	1616	0.2256641	0.90334892	0.76280437	0.27079555	0.84934925
66_19	10/11/15	160	690	850	0.2	170	690	860	0.25	0.225	1672	0.21431753	0.90017256	0.7568345	0.26867625	0.83743911
66_20	12/15/15	110	600	710	0.17	520	2400	2920	0.22	0.195	1737	0.20186088	0.89649972	0.7501382	0.26629906	0.73225943
66_21	1/16/16	170	720	890	0.21	620	3000	3620	0.22	0.215	1769	0.19599701	0.89469706	0.74692947	0.26515996	0.81083131
66_22	5/3/16	170	870	1040	0.22	480	2600	3080	0.26	0.24	1877	0.17743539	0.8886398	0.73650336	0.26145869	0.91792702
66_23	6/2/16	110	710	820	0.21	620	3300	3920	0.27	0.24	1907	0.17259877	0.88696452	0.73371231	0.26046787	0.92141883
66_24	8/27/16	97	520	617	0.18	740	4200	4940	0.23	0.205	1993	0.15945215	0.88217953	0.72594849	0.25771171	0.79546249
66_25	10/16/16	140	770	910	0.2	430	2600	3030	0.22	0.21	2043	0.15227413	0.87940943	0.72158872	0.256164	0.81978734
66_26	12/3/16	93	610	703	0.17	420	2700	3120	0.21	0.19	2091	0.14568742	0.87675832	0.71750438	0.25471406	0.74593449
66_27	1/28/17	91	660	751	0.17	270	1700	1970	0.18	0.175	2147	0.13836214	0.87367546	0.71285898	0.25306494	0.69152211
66_28	5/2/17	86	660	746	0.16	320	2200	2520	0.2	0.18	2241	0.12688471	0.86852501	0.70533501	0.25039393	0.71886727
66_29	6/4/17	70	590	660	0.15	250	1900	2150	0.18	0.165	2274	0.12308538	0.86672408	0.70277079	0.24948363	0.66136603
66_30	8/11/17	89	780	869	0.15	360	2500	2860	0.17	0.16	2342	0.11561141	0.86302484	0.69760655	0.24765033	0.64607223
66_31	10/28/17	100	630	730	0.12	260	2300	2560	0.17	0.145	2420	0.10759548	0.85880104	0.69187135	0.24561433	0.59035644
66_32	12/20/17	100	770	870	0.12	260	2200	2460	0.17	0.145	2473	0.1024683	0.85594282	0.68808294	0.24426944	0.59360679
66_33	1/17/18	64	530	594	0.13	240	2100	2340	0.16	0.145	2501	0.09985899	0.85443666	0.68611543	0.24357098	0.59530902
66_34	5/3/18	63	600	663	0.1	230	2300	2530	0.15	0.125	2607	0.0905687	0.84875874	0.67886849	0.24099831	0.51867583
66_35	6/1/18	48	550	598	0.11	290	2900	3190	0.15	0.13	2636	0.08818113	0.84721193	0.6769389	0.24031331	0.54096047
66_36	8/25/18	42	460	502	0.17	240	2400	2640	0.21	0.19	2721	0.08153957	0.8426944	0.67140668	0.23834937	0.79714915
66_37	10/7/18	64	740	804	0.11	160	2000	2160	0.14	0.125	2764	0.07837269	0.84041825	0.66867519	0.23737969	0.52658253
66_38	11/23/18	48	540	588	0.15	220	2600	2820	0.22	0.185	2811	0.07505174	0.83793739	0.66573878	0.23633727	0.78277964
66_39	12/20/18	53	650	703	0.11	180	2100	2280	0.13	0.12	2838	0.07320799	0.83651552	0.66407439	0.23574641	0.50902154
66_40	5/6/19	54	730	784	0.12	170	1900	2070	0.13	0.125	2975	0.06452779	0.82933799	0.65586792	0.23283311	0.53688522
66_41	6/2/19	190	2500	2690	0.1	200	2800	3000	0.13	0.115	3002	0.06294258	0.82793072	0.65429526	0.23227482	0.49510317
66_42	8/13/19	160	2200	2360	0.13	200	3000	3200	0.19	0.16	3074	0.05890313	0.82418966	0.65016895	0.23080998	0.69321093
66_43	10/6/19	180	2600	2780	0.09	120	1900	2020	0.13	0.11	3128	0.0560446	0.82139497	0.64713602	0.22973329	0.47881612
66_44	11/3/19	140	2400	2540	0.11	84	1400	1484	0.16	0.135	3156	0.05461745	0.8199496	0.6455834	0.22918211	0.58905123
66_45	12/14/19	95	1600	1695	0.08	130	1800	1930	0.11	0.095	3197	0.052593	0.81783776	0.64333378	0.22838349	0.41596702
66_46	8/25/20	74	1300	1374	0.09	88	1500	1588	0.15	0.12	3452	0.04158208	0.80482469	0.62992772	0.22362434	0.53661422
66_47	10/21/20	64	1500	1564	0.11	69	1500	1569	0.16	0.135	3509	0.03945494	0.80194432	0.62705696	0.22260522	0.60645478
66_48	11/24/20	30	600	630	0.13	67	1500	1567	0.17	0.15	3543	0.03823829	0.80023111	0.62536459	0.22200443	0.67566219
66_49	12/19/20	36	930	966	0.09	60	1300	1360	0.17	0.13	3568	0.0373677	0.79897374	0.62412948	0.22156596	0.58673272
66_50	5/21/21	8.8	190	190	0.09	54	1500	1554	0.1	0.095	3721	0.03245513	0.79132154	0.61673289	0.21894018	0.43390848
66_51	6/7/21	11	240	251	0.08	33	1300	1333	0.13	0.105	3738	0.03195081	0.79047583	0.61592746	0.21865425	0.48021019
66_52	8/26/21	10	230	240	0.09	43	1400	1443	0.17	0.13	3818	0.02968076	0.78650815	0.61217866	0.21732342	0.59818678
66_53	10/24/21	9.3	190	190	0.11	30	930	960	0.16	0.135	3877	0.0281106	0.78359474	0.6094561	0.21635691	0.62396897
66_54	11/20/21	11	200	211	0.09	45	1100	1145	0.15	0.12	3904	0.02742002	0.78226509	0.60822165	0.21591869	0.55576477
66_55	12/20/21	9.6	200	209.6	0.1	41	1300	1341	0.15	0.125	3934	0.02667259	0.78079035	0.60685827	0.21543469	0.58022225
66_56	5/16/22	9.3	180	180	0.05	21	770	791	0.05	0.05	4081	0.02329446	0.7736042	0.600297	0.21310544	0.23462564
66_57	6/10/22	9.9	270	270	0.08	22	690	712	0.09	0.085	4106	0.0227641	0.77238867	0.59919995	0.21271598	0.39959386
66_58	8/10/22	11	250	261	0.08	32	1000	1032	0.1	0.09	4167	0.02152015	0.76943077	0.59654491	0.21177344	0.42498247
66_59	10/12/22	9.6	260	260	0.09	39	1300	1339	0.1	0.095	4230	0.02030673	0.76638778	0.59383414	0.21081112	0.45064036
66_60	11/7/22	11	190	201	0.09	45	1600	1645	0.13	0.11	4256	0.01982612	0.76513545	0.59272439	0.21041716	0.52277105
66_61	12/23/22	8.3	190	190	0.08	44	1400	1444	0.14	0.11	4302	0.01900351	0.76292481	0.59077345	0.20972458	0.52449743
66_62	5/16/23	9.3	210	210	0.07	31	1700	1731	0.11	0.09	4446	0.01664262	0.75604574	0.5847645	0.2075914	0.43354398
66_63	6/21/23	9.9	200	200	0.08	29	1200	1229	0.11	0.095	4482	0.01609973	0.75433569	0.58328445	0.20706598	0.45879096
66_64	8/14/23	6.9	230	230	0.07	26	1400	1426	0.1	0.085	4536	0.01531842	0.75177786	0.58108023	0.20628348	0.41205432
66_65	10/25/23	9.8	200	200	0.09	29	1200	1229	0.14	0.115	4608	0.01433533	0.7483809	0.57816988	0.20525031	0.56029149
66_66	11/10/23	8.9	220	220	0.09	23	970	993	0.12	0.105	4624	0.01412559	0.74762811	0.57752745	0.20502224	0.51213955
66_67	12/6/23	8.9	250	250	0.08	21	1000	1021	0.14	0.11	4650	0.01379127	0.74640644	0.57648677	0.2046528	0.53749569
66_68	5/27/24	9.7	220	220	0.08	17	1100	1117	0.13	0.105	4823	0.01175952	0.7383283	0.56966115	0.20222971	0.51921155
66_69	6/12/24	6	270	270	0.06	29	1200	1229	0.06	0.06	4839	0.01158746	0.73758562	0.56903821	0.20200857	0.29701711
66_70	8/23/24	7.7	220	220	0.07	19	1300	1319	0.09	0.08	4911	0.01084381	0.7342528	0.56625162	0.20101932	0.39797169

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
67_1	11/28/11	930	1200	2130	0.27	1800	2200	4000	0.29	0.28	259	0.78773104	0.98384088	0.99961445	0.27989205	1.0003857
67_2	1/17/12	710	920	1630	0.23	540	740	1280	0.26	0.245	309	0.75226993	0.98075156	0.9861987	0.27613564	0.88724514
67_3	2/28/12	1200	1700	2900	0.2	310	470	780	0.23	0.215	351	0.72371926	0.97816403	0.97532048	0.27308973	0.78728701
67_4	5/6/12	9.6	360	500	0.21	9.5	390	560	0.21	0.21	419	0.67977367	0.97398916	0.95842932	0.26836021	0.78253032
67_5	7/18/12	12	600	940	0.18	18	1300	2100	0.24	0.21	492	0.6355623	0.96952715	0.94123522	0.26354586	0.79682526
67_6	9/25/12	15	770	1300	0.17	15	1200	1900	0.22	0.195	561	0.59642008	0.96532842	0.9258222	0.25923022	0.75222713
67_7	11/14/12	14	660	1200	0.14	17	1100	1900	0.18	0.16	611	0.56957117	0.96229723	0.91513404	0.25623753	0.62442063
67_8	12/20/12	7.9	260	460	0.24	15	750	1300	0.21	0.225	647	0.55099155	0.96012067	0.90767724	0.25414963	0.88530526
67_9	5/8/13	330	680	1010	0.212	250	500	750	0.192	0.202	786	0.48476707	0.95176283	0.8806387	0.24657884	0.81921062
67_10	6/20/13	280	590	870	0.156	360	780	1140	0.176	0.166	829	0.46593941	0.94919208	0.87280244	0.24438468	0.67925698
67_11	8/5/13	320	700	1020	0.162	1300	2700	4000	0.16	0.161	875	0.44660701	0.94644966	0.86467733	0.24210965	0.66498795
67_12	10/9/13	170	370	540	0.124	470	1100	1570	0.156	0.14	940	0.42064914	0.942588	0.85363013	0.23901644	0.58573378
67_13	12/6/13	350	790	1140	0.118	510	1200	1710	0.166	0.142	998	0.39876319	0.93915551	0.84418049	0.23637054	0.60075169
67_14	2/7/14	150	410	560	0.106	470	1200	1670	0.174	0.14	1061	0.37627876	0.93544128	0.83432843	0.23361196	0.59928439
67_15	5/8/15	76	280	356	0.11	490	1700	2190	0.14	0.125	1516	0.24744061	0.90904889	0.77395815	0.21670828	0.57681229
67_16	6/8/15	160	640	800	0.1	600	2400	3000	0.15	0.125	1547	0.24047412	0.90727806	0.77043032	0.21572049	0.57945353
67_17	8/3/15	170	620	790	0.1	650	2500	3150	0.13	0.115	1603	0.2283829	0.90408789	0.76421787	0.213981	0.53743088
67_18	10/6/15	100	440	540	0.1	270	1000	1270	0.1	0.1	1667	0.21530699	0.90045571	0.75735982	0.21206075	0.47156299
67_19	12/18/15	100	570	670	0.08	170	690	860	0.11	0.095	1740	0.20130377	0.89633056	0.74983497	0.20995379	0.45248052
67_20	2/17/16	150	780	930	0.07	120	610	730	0.1	0.085	1801	0.19030348	0.89289802	0.74377659	0.20825745	0.40814867
67_21	5/3/16	220	1100	1320	0.1	73	390	463	0.11	0.105	1877	0.17743539	0.8886398	0.73650336	0.20622094	0.50916265
67_22	6/10/16	7.7	34	41.7	0.1	420	2300	2720	0.12	0.11	1915	0.17133142	0.88651831	0.73297542	0.20523312	0.53597588
67_23	8/7/16	110	640	750	0.11	230	1400	1630	0.12	0.115	1973	0.16241723	0.88329001	0.72772351	0.20376258	0.56438233
67_24	10/27/16	140	950	1090	0.1	500	2600	3100	0.1	0.1	2054	0.15073885	0.87880118	0.72064414	0.20178036	0.49558838
67_25	12/19/16	55	340	395	0.09	84	620	704	0.11	0.1	2107	0.14355578	0.87587639	0.71616422	0.20052598	0.4986885
67_26	2/21/17	87	570	657	0.1	110	810	920	0.1	0.1	2171	0.13533659	0.87235755	0.7109061	0.19905371	0.50237697
67_27	5/1/17	130	860	990	0.09	70	550	620	0.1	0.095	2240	0.12700165	0.86857964	0.70541332	0.19751573	0.48097435
67_28	6/17/17	72	420	492	0.08	120	920	1040	0.09	0.085	2287	0.1216201	0.86601565	0.70177123	0.19649594	0.43257891
67_29	8/12/17	90	630	720	0.06	120	980	1100	0.08	0.07	2343	0.11550495	0.86297056	0.69753178	0.1953089	0.35840661
67_30	10/4/17	75	550	625	0.08	42	440	482	0.09	0.085	2396	0.11000086	0.86009847	0.69361531	0.19421229	0.43766541
67_31	12/4/17	63	490	553	0.08	58	590	648	0.09	0.085	2457	0.10398984	0.85680468	0.68921765	0.19298094	0.440458
67_32	2/1/18	100	970	1070	0.06	62	500	562	0.07	0.065	2516	0.09848858	0.85363088	0.68507079	0.19181982	0.33885966
67_33	5/3/18	94	1100	1194	0.07	63	600	663	0.07	0.07	2607	0.0905687	0.84875874	0.67886849	0.19008318	0.36825984
67_34	6/13/18	20	230	250	0.06	92	1000	1092	0.06	0.06	2648	0.08721168	0.8465727	0.67614684	0.18932112	0.31692186
67_35	8/5/18	73	720	793	0.06	100	1100	1200	0.07	0.065	2701	0.08305583	0.84375518	0.67269224	0.18835383	0.34509519
67_36	10/3/18	32	380	412	0.06	89	940	1029	0.07	0.065	2760	0.07866202	0.84062972	0.66892745	0.18729969	0.34703742
67_37	11/3/18	21	230	251	0.1	110	1100	1210	0.12	0.11	2791	0.07644736	0.83899217	0.66698216	0.186755	0.58900697
67_38	12/4/18	21	250	271	0.09	100	1100	1200	0.1	0.095	2822	0.07429504	0.83735782	0.66505874	0.18621645	0.51015902
67_39	5/6/19	27	310	337	0.06	27	390	417	0.07	0.065	2975	0.06452779	0.82933799	0.65586792	0.18364302	0.35394757
67_40	6/20/19	8.4	120	128.4	0.06	60	720	780	0.07	0.065	3020	0.06190746	0.82699387	0.6532546	0.18291129	0.35536352
67_41	8/23/19	54	860	914	0.06	74	1000	1074	0.07	0.065	3084	0.05836299	0.82367141	0.64960339	0.18188895	0.35736091
67_42	10/3/19	16	190	206	0.06	35	520	555	0.07	0.065	3125	0.05619971	0.82154998	0.64730317	0.18124489	0.35863081
67_43	11/1/19	12	170	182	0.07	28	420	448	0.08	0.075	3154	0.05471817	0.82005276	0.64569385	0.18079428	0.41483614
67_44	12/6/19	9.9	150	159.9	0.08	24	240	264	0.08	0.08	3189	0.05298203	0.8182494	0.64377053	0.18025575	0.44381386
67_45	8/22/20	5.8	110	115.8	0.08	17	270	287	0.08	0.08	3449	0.04169716	0.80497658	0.63008	0.1764224	0.45345715
67_46	10/27/20	8.1	120	120	0.08	19	380	399	0.09	0.085	3515	0.03923746	0.80164172	0.62675724	0.17549203	0.48435249
67_47	11/21/20	6	130	136	0.08	6.8	110	110	0.08	0.08	3540	0.03834412	0.80038213	0.62551333	0.17514373	0.4567677
67_48	12/15/20	8.3	130	130	0.08	6.3	120	120	0.08	0.08	3564	0.03750565	0.79917479	0.62432657	0.17481144	0.45763595
67_49	5/19/21	9.9	90	90	0.07	10	100	100	0.09	0.08	3719	0.03251498	0.79142109	0.61682786	0.1727118	0.46319939
67_50	6/5/21	9.3	76	76	0.07	8.6	110	110	0.08	0.075	3736	0.03200973	0.79057528	0.61602206	0.17248618	0.43481745
67_51	8/30/21	7.7	250	250	0.07	22	620	642	0.08	0.075	3822	0.02957159	0.78631028	0.61199297	0.17135803	0.4376801
67_52	10/15/21	7.9	120	120	0.08	10	360	370	0.07	0.075	3868	0.02834463	0.78403846	0.60986916	0.17076336	0.43920428
67_53	11/20/21	7.6	170	177.6	0.08	21	680	701	0.08	0.08	3904	0.02742002	0.78226509	0.60822165	0.17030206	0.46975356
67_54	12/20/21	8.1	99	99	0.08	27	530	557	0.08	0.08	3934	0.02667259	0.78079035	0.60685827	0.16992032	0.47080892
67_55	5/18/22	6.3	17	17	0.07	19	730	749	0.07	0.07	4083	0.02325158	0.77350689	0.60020904	0.16805853	0.41652155
67_56	6/10/22	6	7		0.07	11	330	341	0.07	0.07	4106	0.0227641	0.77238867	0.59919995	0.16777599	0.417223
67_57	8/5/22	8.8	23	23	0.08	32	1200	1232	0.08	0.08	4162	0.02161951	0.76967279	0.5967614	0.16709319	0.47877475
67_58	10/12/22	7.8	140	140	0.08	23	950	973	0.08	0.08	4230	0.02030673	0.76638778	0.59383414	0.16627356	0.48113482
67_59	11/8/22	8.4	88	88	0.07	17	600	617	0.07	0.07	4257	0.01980787	0.76508733	0.59268181	0.16595091	0.42181149
67_60	12/13/22	9.2	71	71	0.08	14	530	544	0.08	0.08	4292	0.01917939	0.76340484	0.59119623	0.16553495	0.48328164
67_61	5/15/23	8	110	110	0.07	14	430	444	0.08	0.075	4445	0.01665796	0.7560933	0.58480573	0.1637456	0.45802756
67_62	6/23/23	8.8	120	120	0.08	21	480	501	0.08	0.08	4484	0.01607009	0.7542408	0.58320248	0.16329669	0.48990582
67_63	8/31/23	8.2	230	230	0.07	8.7	340	340	0.08	0.075	4553	0.01508039	0.75097441	0.58039015	0.16250924	0.46151221
67_64	10/20/23	7.1	130	130	0.07	16	770	786	0.06	0.065	4603	0.01440152	0.74861631	0.57837095	0.16194387	0.40137365
67_65	11/16/23	7	79	79	0.08	7.3	450	450	0.08	0.08	4630	0.01404772	0.74734601	0.57728693	0.16164034	0.49492596
67_66	12/7/23	9.3	88	88	0.07	9.2	310	310	0.07	0.07	4651	0.01377857	0.74635949	0.57644682	0.16140511	0.43369135
67_67	5/2/24	9.7	73	73	0.07	8.3	280	280	0.08	0.075	4798	0.01203349	0.73949024	0.57063723	0.15977843	0.46940004
67_68	6/5/24	7.1	170	170	0.07	12	500	512	0.07	0.07	4832	0.01166242	0.73791045	0.56931058	0.15940696	0.43912762
67_69	8/23/24	7.2	190	190	0.07	8.7	660	660	0.06	0.065	4911	0.01084381	0.7342528	0.56625162	0.15855045	0.40996414

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
68_1	11/28/11	4000	5000	9000	0.54	1600	2100	3700	0.52	0.53	259	0.78773104	0.98384088	0.99961445	0.52979566	1.0003857
68_2	1/7/12	2800	3700	6500	0.54	2200	2900	5100	0.5	0.52	299	0.75923209	0.98136865	0.98884073	0.52408559	0.99220435
68_3	5/4/12	9.8	460	670	0.4	17	1200	1800	0.41	0.405	417	0.68102728	0.9741117	0.9589138	0.50822431	0.79689222
68_4	7/19/12	14	1100	1900	0.42	19	1100	1700	0.46	0.44	493	0.63497707	0.96946617	0.94100615	0.49873326	0.88223512
68_5	9/25/12	20	1600	2600	0.38	18	1200	2000	0.43	0.405	561	0.59642008	0.96532842	0.9258222	0.49068577	0.82537548
68_6	10/31/12	12	720	1200	0.42	19	1200	2100	0.45	0.435	597	0.57696463	0.96314501	0.91808729	0.48658626	0.89398332
68_7	12/26/12	16	1300	2400	0.4	17	960	1700	0.4	0.4	653	0.54795441	0.95975839	0.90645333	0.48042026	0.83260435
68_8	1/23/13	12	760	1400	0.36	16	880	1700	0.46	0.41	681	0.53400097	0.95806955	0.90081164	0.47743017	0.85876433
68_9	5/1/13	1200	2300	3500	0.392	910	1800	2710	0.404	0.398	779	0.48790324	0.95218199	0.88193706	0.46742664	0.85147051
68_10	6/19/13	770	1600	2370	0.346	1000	2000	3000	0.4	0.373	828	0.46636885	0.94925178	0.87298199	0.46268046	0.80617194
68_11	8/21/13	1100	2600	3700	0.54	800	1700	2500	0.354	0.447	891	0.44007244	0.94549763	0.86191174	0.45681322	0.97851809
68_12	10/4/13	810	1900	2710	0.232	540	1100	1640	0.298	0.265	935	0.42259118	0.94288449	0.85446244	0.45286509	0.58516323
68_13	12/5/13	360	890	1250	0.306	330	860	1190	0.328	0.317	997	0.39913071	0.93921459	0.84434028	0.44750035	0.70837934
68_14	2/6/14	2400	5900	8300	0.276	310	760	1070	0.23	0.253	1060	0.37662556	0.93550012	0.83448157	0.44227523	0.57204198
68_15	5/12/15	380	1300	1680	0.29	190	690	880	0.28	0.285	1520	0.24653049	0.9088202	0.77349931	0.40995463	0.69519888
68_16	6/13/15	530	1900	2430	0.24	160	620	780	0.26	0.25	1552	0.23936901	0.90699277	0.76986733	0.40802968	0.61270052
68_17	8/16/15	410	1800	2210	0.22	160	600	760	0.21	0.215	1616	0.2256641	0.90334892	0.76280437	0.40428632	0.53180133
68_18	10/11/15	190	730	920	0.21	84	350	434	0.2	0.205	1672	0.21431753	0.90017256	0.7568345	0.40112229	0.51106609
68_19	12/15/15	210	830	1040	0.18	110	440	550	0.17	0.175	1737	0.20186088	0.89649972	0.7501382	0.39757325	0.44017046
68_20	2/5/16	140	700	840	0.16	87	390	477	0.16	0.16	1789	0.19241891	0.89357224	0.74495248	0.39482481	0.40524302
68_21	5/3/16	280	1400	1680	0.2	94	500	594	0.21	0.205	1877	0.17743539	0.8886398	0.73650336	0.39034678	0.52517405
68_22	6/2/16	240	1200	1440	0.22	43	280	323	0.17	0.195	1907	0.17259877	0.88696452	0.73371231	0.38886752	0.50145612
68_23	8/28/16	110	560	670	0.18	79	420	499	0.18	0.18	1994	0.15930533	0.88212404	0.72586021	0.38470591	0.46788987
68_24	10/16/16	110	670	780	0.18	84	470	554	0.17	0.175	2043	0.15227413	0.87940943	0.72158872	0.38244202	0.4575857
68_25	12/3/16	150	840	990	0.16	67	360	427	0.17	0.165	2091	0.14568742	0.87675832	0.71750438	0.38027732	0.43389387
68_26	2/3/17	95	760	855	0.17	74	430	504	0.17	0.17	2153	0.13759947	0.8733458	0.71236866	0.37755539	0.45026506
68_27	5/2/17	130	850	980	0.16	68	560	628	0.15	0.155	2241	0.12688471	0.86852501	0.70533501	0.37382756	0.41462968
68_28	6/4/17	200	1500	1700	0.15	200	1500	1700	0.16	0.155	2274	0.12308538	0.86672408	0.70277079	0.37246852	0.41614255
68_29	8/12/17	190	1300	1490	0.12	210	1600	1810	0.11	0.115	2343	0.11550495	0.86297056	0.69753178	0.36969184	0.31106989
68_30	10/28/17	54	440	494	0.12	180	1500	1680	0.1	0.11	2420	0.10759548	0.85880104	0.69187135	0.36669181	0.29997943
68_31	12/20/17	81	700	781	0.12	150	1400	1550	0.1	0.11	2473	0.1024683	0.85594282	0.68808294	0.36468396	0.30163103
68_32	2/17/18	35	390	425	0.13	96	900	996	0.11	0.12	2532	0.09704754	0.85277222	0.6839636	0.36250071	0.33103384
68_33	5/2/18	100	910	1010	0.12	150	1500	1650	0.12	0.12	2606	0.09065217	0.84881213	0.67893542	0.35983577	0.33348546
68_34	6/1/18	90	890	980	0.12	150	1600	1750	0.1	0.11	2636	0.08818113	0.84721193	0.6769389	0.35877761	0.30659661
68_35	8/25/18	170	1500	1670	0.17	160	1400	1560	0.16	0.165	2721	0.08153957	0.8426944	0.67140668	0.35584554	0.46368432
68_36	10/7/18	93	1000	1093	0.12	130	1700	1830	0.09	0.105	2764	0.07837269	0.84041825	0.66867519	0.35439785	0.29627719
68_37	11/23/18	82	980	1062	0.18	130	1400	1530	0.15	0.165	2811	0.07505174	0.83793739	0.66573878	0.35284155	0.467632
68_38	12/20/18	160	1800	1960	0.13	110	1200	1310	0.11	0.12	2838	0.07320799	0.83651552	0.66407439	0.35195943	0.34094839
68_39	5/6/19	93	960	1053	0.12	95	1400	1495	0.11	0.115	2975	0.06452779	0.82933799	0.65586792	0.34761	0.33083053
68_40	6/2/19	79	1100	1179	0.1	130	1500	1630	0.09	0.095	3002	0.06294258	0.82793072	0.65429526	0.34677649	0.27395167
68_41	8/13/19	210	2900	3110	0.15	99	1600	1699	0.15	0.15	3074	0.05890313	0.82418966	0.65016895	0.34458955	0.4353005
68_42	10/6/19	150	2400	2550	0.1	85	1300	1385	0.1	0.1	3128	0.0560446	0.82139497	0.64713602	0.34298209	0.29156041
68_43	11/3/19	170	2500	2670	0.15	65	1100	1165	0.12	0.135	3156	0.05461745	0.8199496	0.6455834	0.3421592	0.39455318
68_44	12/14/19	110	2000	2110	0.09	36	870	906	0.07	0.08	3197	0.052593	0.81783776	0.64333378	0.3409669	0.23462688
68_45	8/28/20	72	1400	1472	0.13	51	970	1021	0.11	0.12	3455	0.04146732	0.80467284	0.62977555	0.33378104	0.35951712
68_46	10/21/20	120	2700	2820	0.13	25	570	595	0.11	0.12	3509	0.03945494	0.80194432	0.62705696	0.33234019	0.3610758
68_47	11/23/20	39	760	799	0.13	21	380	401	0.16	0.145	3542	0.03827353	0.80028145	0.62541416	0.33146951	0.43744597
68_48	12/18/20	26	590	616	0.12	61	1100	1161	0.11	0.115	3567	0.03740214	0.799024	0.62417873	0.33081473	0.3476266
68_49	5/21/21	20	400	420	0.09	22	610	632	0.11	0.1	3721	0.03245513	0.79132154	0.61673289	0.32686843	0.30593349
68_50	6/7/21	9.6	17	17	0.08	7.5	150	150	0.1	0.09	3738	0.03195081	0.79047583	0.61592746	0.32644156	0.27570019
68_51	8/26/21	7.7	31	31	0.1	7.9	34	34	0.08	0.09	3818	0.02968076	0.78650815	0.61217866	0.32445469	0.2773885
68_52	10/23/21	6.9	30	30	0.13	21	800	821	0.11	0.12	3876	0.0281365	0.78364403	0.60950195	0.32303603	0.37147558
68_53	11/20/21	6	140	140	0.13	42	1100	1142	0.11	0.12	3904	0.02742002	0.78226509	0.60822165	0.32235748	0.37225754
68_54	12/20/21	8.8	79	79	0.12	29	850	879	0.11	0.115	3934	0.02667259	0.78079035	0.60685827	0.32163489	0.35754828
68_55	5/16/22	8.5	51	51	0.05	14	350	364	0.05	0.05	4081	0.02329446	0.7736042	0.600297	0.31815741	0.15715491
68_56	6/10/22	9.2	430	439.2	0.08	30	1100	1130	0.08	0.08	4106	0.0227641	0.77238867	0.59919995	0.31757598	0.25190822
68_57	8/10/22	7.1	27	27	0.11	17	680	697	0.11	0.11	4167	0.02152015	0.76943077	0.59654491	0.3161688	0.34791542
68_58	10/12/22	6.5	82	82	0.12	31	1400	1431	0.08	0.1	4230	0.02030673	0.76638778	0.59383414	0.3147321	0.31773054
68_59	11/7/22	8.6	64	64	0.08	28	1700	1728	0.12	0.1	4256	0.01982612	0.76513545	0.59272439	0.31414393	0.31832543
68_60	12/23/22	8.3	96	96	0.08	23	720	743	0.11	0.095	4302	0.01900351	0.76292481	0.59077345	0.31310993	0.30340782
68_61	5/16/23	7.8	120	120	0.1	29	1100	1129	0.1	0.1	4446	0.01664262	0.75604574	0.5847645	0.30992518	0.32265852
68_62	6/21/23	8.7	17	17	0.09	37	920	957	0.1	0.095	4482	0.01609973	0.75433569	0.58328445	0.30914076	0.30730338
68_63	8/17/23	6.4	23	23	0.08	26	1100	1126	0.1	0.09	4539	0.01527614	0.75163601	0.58095832	0.30790791	0.29229519
68_64	10/25/23	5.7	57	57	0.07	27	1300	1327	0.11	0.09	4608	0.01433533	0.7483809	0.57816988	0.30643003	0.29370489
68_65	11/10/23	14	700	714	0.07	18	1000	1018	0.12	0.095	4624	0.01412559	0.74762811	0.57752745	0.30608955	0.31036669
68_66	12/6/23	9.9	430	439.9	0.12	10	520	530	0.12	0.12	4650	0.01379127	0.74640644	0.57648677	0.30553799	0.39274986
68_67	5/27/24	7.3	69	69	0.08	15	690	705	0.12	0.1	4823	0.01175952	0.7383283	0.56966115	0.30192041	0.33121312
68_68	6/12/24	8.4	160	160	0.07	5.4	280	280	0.08	0.075	4839	0.01158746	0.73758562	0.56903821	0.30159025	0.24868178
68_69	8/23/24	6.5	110	110	0.07	11	560	571	0.09	0.08	4911	0.01084381	0.7342528	0.56625162	0.30011336	0.26656594

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
69_1	11/24/11	950	1200	2150	0.54	1700	2100	3800	0.59	0.565	255	0.79063912	0.98408845	1.00071021	0.56540127	0.99929029
69_2	1/17/12	1200	1600	2800	0.85	4500	5900	10400	0.95	0.9	309	0.75226993	0.98075156	0.9861987	0.55720226	1.61521239
69_3	2/28/12	140	190	330	0.76					0.76	351	0.72371926	0.97816403	0.97532048	0.55105607	1.37916999
69_4	5/4/12	33	4500	6700	0.79	26	3200	4700	0.84	0.815	417	0.68102728	0.9741117	0.9589138	0.5417863	1.50428316
69_5	7/19/12	17	1100	1700	0.81	17	1600	2600	0.7	0.755	493	0.63497707	0.96946617	0.94100615	0.53166848	1.42005786
69_6	10/2/12	25	2500	4100	0.67	21	2300	3800	0.77	0.72	568	0.59258637	0.96490348	0.9243021	0.52223068	1.37870107
69_7	10/31/12	16	1400	2400	0.74	19	1900	3200	0.78	0.76	597	0.57696463	0.96314501	0.91808729	0.51871932	1.4651469
69_8	12/26/12	19	1900	3500	0.69	12	670	1200	0.62	0.655	653	0.54795441	0.95975839	0.90645333	0.51214613	1.27893185
69_9	1/24/13	18	1300	2400	0.61	16	1100	2000	0.56	0.585	682	0.53350926	0.95800929	0.90061226	0.50884593	1.14966038
69_10	5/1/13	2500	4900	7400	0.65	1000	2000	3000	0.586	0.618	779	0.48790324	0.95218199	0.88193706	0.49829444	1.24023058
69_11	6/20/13	1400	3000	4400	0.708	1700	3400	5100	0.614	0.661	829	0.46593941	0.94919208	0.87280244	0.49313338	1.34040816
69_12	8/9/13	1100	2400	3500	0.67	1300	2900	4200	0.616	0.643	879	0.44496432	0.94621156	0.86398304	0.48815042	1.31721694
69_13	10/9/13	1400	3200	4600	0.512	2100	4800	6900	0.542	0.527	940	0.42064914	0.942588	0.85363013	0.48230102	1.09267859
69_14	12/6/13	1400	3400	4800	0.61	2100	5100	7200	0.536	0.573	998	0.39876319	0.93915551	0.84418049	0.47696198	1.20135362
69_15	2/6/14	1000	2500	3500	0.434	1100	2600	3700	0.33	0.382	1060	0.37662556	0.93550012	0.83448157	0.47148209	0.81021105
69_16	5/12/15	510	2000	2510	0.42	830	3000	3830	0.49	0.455	1520	0.24653049	0.9088202	0.77349931	0.43702711	1.04112535
69_17	6/10/15	880	3300	4180	0.39	1100	4500	5600	0.43	0.41	1549	0.24003146	0.90716394	0.77020492	0.43516578	0.94216967
69_18	8/14/15	910	3400	4310	0.36	930	3800	4730	0.36	0.36	1614	0.22608026	0.90346257	0.76302114	0.43110695	0.83505961
69_19	10/10/15	760	3100	3860	0.31	720	2900	3620	0.37	0.34	1671	0.21451506	0.90022918	0.75693945	0.42767079	0.79500403
69_20	12/10/15	560	2400	2960	0.28	640	2900	3540	0.32	0.3	1732	0.20279283	0.89678171	0.75064471	0.42411426	0.70735654
69_21	2/3/16	540	2800	3340	0.23	940	4000	4940	0.25	0.24	1787	0.19277376	0.89368466	0.74514921	0.4210093	0.57005866
69_22	5/6/16	430	2400	2830	0.35	650	3400	4050	0.36	0.355	1880	0.1769457	0.88847213	0.73622227	0.41596558	0.853436
69_23	6/3/16	410	2200	2610	0.37	360	2000	2360	0.36	0.365	1908	0.17243984	0.88690873	0.73362003	0.41449532	0.88058896
69_24	8/27/16	520	3100	3620	0.33	460	2600	3060	0.32	0.325	1993	0.15945215	0.88217953	0.72594849	0.41016089	0.79237198
69_25	10/3/16	390	2200	2590	0.25	530	3000	3530	0.29	0.27	2030	0.15410873	0.88012882	0.72271174	0.40833214	0.66122643
69_26	12/3/16	240	1500	1740	0.27	410	2300	2710	0.27	0.27	2091	0.14568742	0.87675832	0.71750438	0.40538998	0.66602535
69_27	2/2/17	390	2500	2890	0.25	640	4000	4640	0.28	0.265	2152	0.13772629	0.87340073	0.71245028	0.40253441	0.65832882
69_28	5/1/17	280	1900	2180	0.23	350	2200	2550	0.26	0.245	2240	0.12700165	0.86857964	0.70541332	0.39855853	0.61471524
69_29	6/1/17	290	2100	2390	0.2	380	2800	3180	0.25	0.225	2271	0.12342602	0.86688765	0.70300231	0.3971963	0.56647053
69_30	8/1/17	160	1300	1460	0.19	380	2800	3180	0.22	0.205	2332	0.11668137	0.86356786	0.69835616	0.39457123	0.51955131
69_31	10/22/17	130	1000	1130	0.19	160	1300	1460	0.21	0.2	2414	0.10819185	0.85912521	0.69230565	0.39115269	0.51130928
69_32	12/21/17	230	1900	2130	0.2	440	3800	4240	0.22	0.21	2474	0.10237395	0.85588899	0.68801228	0.38872694	0.54022498
69_33	2/1/18	140	1400	1540	0.17	360	3400	3760	0.19	0.18	2516	0.09848858	0.85363088	0.68507079	0.38706499	0.46503818
69_34	5/1/18	220	2300	2520	0.21	260	2600	2860	0.21	0.21	2605	0.09073572	0.84886552	0.67900238	0.38363634	0.54739339
69_35	6/20/18	140	1400	1540	0.17	420	4300	4720	0.19	0.18	2655	0.08665109	0.84620003	0.67568652	0.38176288	0.47149686
69_36	8/26/18	240	2400	2640	0.25	260	2700	2960	0.29	0.27	2722	0.08146449	0.8426414	0.67134266	0.3793086	0.71182145
69_37	10/3/18	190	2200	2390	0.17	230	2800	3030	0.18	0.175	2760	0.07866202	0.84062972	0.66892745	0.37794401	0.46303155
69_38	11/25/18	160	1800	1960	0.24	210	2500	2710	0.29	0.265	2813	0.07491359	0.83783198	0.66561494	0.37607244	0.70465148
69_39	12/20/18	150	1800	1950	0.15	210	2500	2710	0.18	0.165	2838	0.07320799	0.83651552	0.66407439	0.37520203	0.43976308
69_40	5/1/19	170	2600	2770	0.15	220	2800	3020	0.17	0.16	2970	0.0648257	0.82959886	0.65616071	0.3707308	0.43158
69_41	6/20/19	110	1500	1610	0.16	230	3100	3330	0.18	0.17	3020	0.06190746	0.82699387	0.6532546	0.36908885	0.4605937
69_42	8/11/19	110	1900	2010	0.21	170	2500	2670	0.27	0.24	3072	0.05901176	0.82429335	0.65028228	0.36740949	0.6532221
69_43	10/6/19	140	2100	2240	0.16	140	2300	2440	0.16	0.16	3128	0.0560446	0.82139497	0.64713602	0.36563185	0.43759864
69_44	11/4/19	79	1300	1379	0.2	160	2500	2660	0.24	0.22	3157	0.05456716	0.81989803	0.64552819	0.36472343	0.60319679
69_45	12/16/19	87	1700	1787	0.14	92	1500	1592	0.15	0.145	3199	0.05249619	0.81773488	0.64322475	0.36342198	0.39898522
69_46	8/26/20	57	1300	1357	0.16	110	2000	2110	0.19	0.175	3453	0.04154379	0.80477407	0.62987698	0.3558805	0.4917381
69_47	10/25/20	67	1400	1467	0.19	97	2000	2097	0.22	0.205	3513	0.03930982	0.80174258	0.62685709	0.35417426	0.57881112
69_48	11/24/20	61	1000	1061	0.19	90	1900	1990	0.21	0.2	3543	0.03823829	0.80023111	0.62536459	0.353331	0.56604148
69_49	12/17/20	52	1100	1152	0.18	88	2000	2088	0.19	0.185	3566	0.03743661	0.79907426	0.624228	0.35268882	0.52454172
69_50	5/21/21	28	740	768	0.18	110	2800	2910	0.21	0.195	3721	0.03245513	0.79132154	0.61673289	0.34845408	0.55961462
69_51	6/5/21	51	1200	1251	0.17	35	800	835	0.21	0.19	3736	0.03200973	0.79057528	0.61602206	0.34805246	0.54589472
69_52	8/31/21	34	1100	1134	0.17	88	2000	2088	0.17	0.17	3823	0.02954436	0.78626083	0.61194657	0.34574981	0.49168501
69_53	10/23/21	39	1400	1439	0.17	61	2000	2061	0.19	0.18	3876	0.0281365	0.78364403	0.60950195	0.3443686	0.52269573
69_54	11/20/21	40	1300	1340	0.19	42	1200	1242	0.2	0.195	3904	0.02742002	0.78226509	0.60822165	0.34364523	0.56744567
69_55	12/20/21	39	1300	1339	0.19	51	1400	1451	0.21	0.2	3934	0.02667259	0.78079035	0.60685827	0.34287492	0.58330308
69_56	5/18/22	73	2500	2573	0.15	44	1300	1344	0.17	0.16	4083	0.02325158	0.77350689	0.60020904	0.33911811	0.47181202
69_57	6/10/22	68	2500	2568	0.16	43	1600	1643	0.16	0.16	4106	0.0227641	0.77238867	0.59919995	0.33854797	0.47260658
69_58	8/10/22	58	1700	1758	0.16	30	1100	1130	0.17	0.165	4167	0.02152015	0.76943077	0.59654491	0.33704787	0.4895447
69_59	10/12/22	46	1500	1546	0.18	63	2300	2363	0.19	0.185	4230	0.02030673	0.76638778	0.59383414	0.33551629	0.55138902
69_60	11/7/22	25	1000	1025	0.18	47	1700	1747	0.2	0.19	4256	0.01982612	0.76513545	0.59272439	0.33488928	0.56735169
69_61	12/23/22	62	2500	2562	0.17	40	1700	1740	0.17	0.17	4302	0.01900351	0.76292481	0.59077345	0.333787	0.50930683
69_62	5/26/23	31	1800	1831	0.16	53	2000	2053	0.18	0.17	4456	0.01649	0.75557034	0.58435251	0.33015917	0.51490316
69_63	6/22/23	31	1400	1431	0.18	44	1800	1844	0.18	0.18	4483	0.0160849	0.75428824	0.58324346	0.32953255	0.54622828
69_64	8/17/23	34	1700	1734	0.15	24	1100	1124	0.16	0.155	4539	0.01527614	0.75163601	0.58095832	0.32824145	0.47221337
69_65	10/24/23	46	2800	2846	0.18	19	1300	1319	0.17	0.175	4607	0.01434855	0.74842798	0.57821008	0.32668869	0.53567816
69_66	11/10/23	45	2500	2545	0.15	31	1300	1331	0.2	0.175	4624	0.01412559	0.74762811	0.57752745	0.32630301	0.53631133
69_67	12/5/23	40	1900	1940	0.18	39	1600	1639	0.18	0.18	4649	0.01380398	0.74645339	0.57652672	0.3257376	0.55259203
69_68	5/27/24	22	1200	1222	0.17	7.5	310	310	0.13	0.15	4823	0.01175952	0.7383283	0.56966115	0.32185855	0.46604324
69_69	6/13/24	11	710	721	0.16	28	1600	1628	0.18	0.17	4840	0.01157679	0.73753923	0.56899933	0.32148462	0.52879668
69_70	8/23/24	23	1700	1723	0.15	29	1800	1829	0.16	0.155	4911	0.01084381	0.7342528	0.56625162	0.31993216	0.4844777

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
70_1	11/23/11	4400	5600	10000	0.79	3700	4500	8200	0.79	0.79	254	0.79136781	0.98415035	1.00098468	0.7907779	0.99901629
70_2	1/17/12	4400	6000	10400	1.1	1700	2300	4000	1.16	1.13	309	0.75226993	0.98075156	0.9861987	0.77909697	1.45039711
70_3	2/29/12	1100	1500	2600	0.75	22000	30000	52000	0.97	0.86	352	0.72305285	0.97810251	0.97506571	0.77030191	1.11644537
70_4	5/4/12	9	340	490	0.48	27	3100	4400	0.73	0.605	417	0.68102728	0.9741117	0.9589138	0.7575419	0.79863569
70_5	7/19/12	7.6	310	480	0.54	22	2900	4500	0.82	0.68	493	0.63497707	0.96946617	0.94100615	0.74339486	0.91472249
70_6	9/25/12	23	3000	5000	0.72	29	4100	6700	0.88	0.8	561	0.59642008	0.96532842	0.9258222	0.73139954	1.09379342
70_7	10/31/12	17	1400	2300	1	27	4200	7100	0.81	0.905	597	0.57696463	0.96314501	0.91808729	0.72528896	1.24777855
70_8	12/26/12	13	710	1300	0.59	11	480	830	0.66	0.625	653	0.54795441	0.95975839	0.90645333	0.71609813	0.87278541
70_9	1/23/13	23	3100	5600	0.52					0.52	681	0.53400097	0.95806955	0.90081164	0.7116412	0.73070531
70_10	5/1/13	2400	4800	7200	0.586	530	1100	1630	0.526	0.556	779	0.48790324	0.95218199	0.88193706	0.69673028	0.79801326
70_11	6/20/13	1500	3100	4600	0.796	170	360	530	0.436	0.616	829	0.46593941	0.94919208	0.87280244	0.68951392	0.89338297
70_12	8/9/13	2300	4800	7100	0.668	210	440	650	0.412	0.54	879	0.44496432	0.94621156	0.86398304	0.6825466	0.79115477
70_13	10/9/13	1600	3800	5400	0.468	530	1300	1830	0.444	0.456	940	0.42064914	0.942588	0.85363013	0.6743678	0.67618887
70_14	12/5/13	1200	2700	3900	0.754	250	620	870	0.55	0.652	997	0.39913071	0.93921459	0.84434028	0.66702882	0.97746901
70_15	2/6/14	1600	4400	6000	0.68	250	610	860	0.516	0.598	1060	0.37662556	0.93550012	0.83448157	0.65924044	0.90710454
70_16	5/12/15	1700	6400	8100	0.55	910	3600	4510	0.45	0.5	1520	0.24653049	0.9088202	0.77349931	0.61106445	0.81824429
70_17	6/10/15	1100	4000	5100	0.4	130	500	630	0.36	0.38	1549	0.24003146	0.90716394	0.77020492	0.60846189	0.62452556
70_18	8/13/15	560	2200	2760	0.38	180	710	890	0.31	0.345	1613	0.22628863	0.9035194	0.76312962	0.6028724	0.5722604
70_19	10/10/15	660	2900	3560	0.4	630	2700	3330	0.44	0.42	1671	0.21451506	0.90022918	0.75693945	0.59798216	0.70236209
70_20	12/14/15	550	2300	2850	0.35	440	1900	2340	0.34	0.345	1736	0.20204693	0.89655611	0.75023939	0.59268912	0.58209268
70_21	2/5/16	920	4400	5320	0.24	280	1400	1680	0.27	0.255	1789	0.19241891	0.89357224	0.74495248	0.58851246	0.43329584
70_22	5/6/16	560	3000	3560	0.42	240	1300	1540	0.36	0.39	1880	0.1769457	0.88847213	0.73622227	0.58161559	0.67054599
70_23	6/2/16	460	2400	2860	0.31	86	440	526	0.35	0.33	1907	0.17259877	0.88696452	0.73371231	0.57963272	0.56932604
70_24	8/15/16	880	5100	5980	0.3	150	880	1030	0.37	0.335	1981	0.16122464	0.88284565	0.72701133	0.57433895	0.58327927
70_25	10/3/16	750	4300	5050	0.25	140	910	1050	0.32	0.285	2030	0.15410873	0.88012882	0.72271174	0.57094228	0.4991748
70_26	12/4/16	470	2700	3170	0.23	250	1600	1850	0.29	0.26	2092	0.14555327	0.87670317	0.71742031	0.56676205	0.45874631
70_27	2/2/17	740	4800	5540	0.25	200	1400	1600	0.29	0.27	2152	0.13772629	0.87340073	0.71245028	0.56283572	0.47971369
70_28	5/1/17	450	3000	3450	0.23	160	1100	1260	0.28	0.255	2240	0.12700165	0.86857964	0.70541332	0.55727653	0.45758253
70_29	6/1/17	780	5400	6180	0.21	430	3100	3530	0.26	0.235	2271	0.12342602	0.86688765	0.70300231	0.55537182	0.42313994
70_30	8/1/17	310	2300	2610	0.21	260	2000	2260	0.24	0.225	2332	0.11668137	0.86356786	0.69835616	0.55170137	0.40782933
70_31	10/4/17	310	2500	2810	0.2	100	790	890	0.22	0.21	2396	0.11000086	0.86009847	0.69361531	0.5479561	0.38324238
70_32	12/1/17	660	5400	6060	0.18	98	940	1038	0.2	0.19	2454	0.10427763	0.85696637	0.68943126	0.5446507	0.34884744
70_33	2/1/18	140	1400	1540	0.18	180	1700	1880	0.18	0.18	2516	0.09848858	0.85363088	0.68507079	0.54120592	0.3325906
70_34	5/1/18	320	3100	3420	0.22	180	1500	1680	0.23	0.225	2605	0.09073572	0.84886552	0.67900238	0.53641188	0.4194538
70_35	6/22/18	200	2100	2300	0.17	150	1400	1550	0.23	0.2	2657	0.08649159	0.84609359	0.67555522	0.53368863	0.37475035
70_36	8/28/18	450	5000	5450	0.24	82	950	1032	0.29	0.265	2724	0.08131453	0.8425354	0.67121469	0.5302596	0.49975521
70_37	10/3/18	230	2700	2930	0.17	140	1300	1440	0.18	0.175	2760	0.07866202	0.84062972	0.66892745	0.52845268	0.33115548
70_38	11/23/18	250	2900	3150	0.24	73	870	943	0.29	0.265	2811	0.07505174	0.83793739	0.66573878	0.52593364	0.50386585
70_39	12/21/18	320	3800	4120	0.16	70	840	910	0.17	0.165	2839	0.07314058	0.83646291	0.66401305	0.52457031	0.31454315
70_40	5/1/19	240	3000	3240	0.14	110	1500	1610	0.18	0.16	2970	0.0648257	0.82959886	0.65616071	0.51836696	0.30866165
70_41	6/20/19	310	4300	4610	0.17	67	980	1047	0.17	0.17	3020	0.06190746	0.82699387	0.6532546	0.51607113	0.32941195
70_42	8/11/19	210	2800	3010	0.2	160	2400	2560	0.29	0.245	3072	0.05901176	0.82429335	0.65028228	0.513723	0.47691071
70_43	10/6/19	130	2200	2330	0.14	43	660	703	0.17	0.155	3128	0.0560446	0.82139497	0.64713602	0.51123745	0.30318592
70_44	11/3/19	190	2900	3090	0.21	37	630	667	0.2	0.205	3156	0.05461745	0.8199496	0.6455834	0.51001088	0.40195221
70_45	12/21/19	200	3100	3300	0.12	24	300	324	0.14	0.13	3204	0.05225494	0.81747774	0.64295247	0.50793245	0.25593954
70_46	8/26/20	240	4900	5140	0.16	39	800	839	0.18	0.17	3453	0.04154379	0.80477407	0.62987698	0.49760282	0.34163794
70_47	10/25/20	160	3300	3460	0.19	24	500	524	0.22	0.205	3513	0.03930982	0.80174258	0.62685709	0.4952171	0.41395985
70_48	11/23/20	80	1800	1880	0.19	17	340	357	0.19	0.19	3542	0.03827353	0.80028145	0.62541416	0.49407719	0.3845553
70_49	12/17/20	94	2100	2194	0.17	30	630	660	0.2	0.185	3566	0.03743661	0.79907426	0.624228	0.49314012	0.37514693
70_50	5/20/21	65	1500	1565	0.18	11	440	451	0.21	0.195	3720	0.03248504	0.79137131	0.61678037	0.48725649	0.4001999
70_51	6/7/21	140	3600	3740	0.24	16	320	336	0.17	0.205	3738	0.03195081	0.79047583	0.61592746	0.4865827	0.42130557
70_52	8/31/21	8.3	87	87	0.1	15	500	515	0.14	0.12	3823	0.02954436	0.78626083	0.61194657	0.48343779	0.24822222
70_53	10/23/21	8.8	90	90	0.17	17	440	457	0.19	0.18	3876	0.0281365	0.78364403	0.60950195	0.48150654	0.3738267
70_54	11/20/21	6	13	13	0.19	44	1200	1244	0.19	0.19	3904	0.02742002	0.78226509	0.60822165	0.48049511	0.39542546
70_55	12/20/21	7.3	71	71	0.18	33	890	923	0.17	0.175	3934	0.02667259	0.78079035	0.60685827	0.47941804	0.3650259
70_56	5/19/22	7.7	8.2		0.1	26	880	906	0.13	0.115	4084	0.02323017	0.77345824	0.60016508	0.47413041	0.2425493
70_57	6/11/22	7.3	18	18	0.09	10	440	450	0.09	0.09	4107	0.02274314	0.77234009	0.59915618	0.47333338	0.19014083
70_58	8/10/22	7.6	20	20	0.16	35	1000	1035	0.16	0.16	4167	0.02152015	0.76943077	0.59654491	0.47127048	0.33950779
70_59	10/12/22	6.4	40	40	0.12	24	950	974	0.15	0.135	4230	0.02030673	0.76638778	0.59383414	0.46912897	0.28776735
70_60	11/7/22	7.2	8.2		0.09	32	1300	1332	0.1	0.095	4256	0.01982612	0.76513545	0.59272439	0.46825227	0.20288209
70_61	12/23/22	6.7	21	21	0.15	37	1300	1337	0.14	0.145	4302	0.01900351	0.76292481	0.59077345	0.46671103	0.31068475
70_62	5/16/23	7.3	27	27	0.14	39	1700	1739	0.18	0.16	4446	0.01664262	0.75604574	0.5847645	0.46196395	0.34634737
70_63	6/22/23	6	9.8	9.8	0.11	25	1400	1425	0.12	0.115	4483	0.0160849	0.75428824	0.58324346	0.46076233	0.24958637
70_64	8/17/23	7.8	21	21	0.1	57	2900	2957	0.11	0.105	4539	0.01527614	0.75163601	0.58095832	0.45895707	0.22877957
70_65	10/24/23	8.5	42	42	0.11	41	2200	2241	0.15	0.13	4607	0.01434855	0.74842798	0.57821008	0.45678596	0.28459719
70_66	11/10/23	9	35	35	0.09	25	1700	1725	0.16	0.125	4624	0.01412559	0.74762811	0.57752745	0.45624668	0.2739746
70_67	12/5/23	5.9	17	17	0.09	9.9	660	669.9	0.16	0.125	4649	0.01380398	0.74645339	0.57652672	0.45545611	0.27445016
70_68	5/27/24	4.9	28	28	0.08	38	2200	2238	0.19	0.135	4823	0.01175952	0.7383283	0.56966115	0.45003231	0.29997846
70_69	6/13/24	5.5	9.4	9.4	0.11	36	2300	2336	0.17	0.14	4840	0.01157679	0.73753923	0.56899933	0.44950947	0.31145062
70_70	8/23/24	7.9	8.7		0.09	23	1300	1323	0.18	0.135	4911	0.01084381	0.7342528	0.56625162	0.44733878	0.3017847

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
71_1	11/23/11	7700	10000	17700	0.99	4600	5700	10300	1.27	1.13	254	0.79136781	0.98415035	1.00098468	1.13111269	0.99901629
71_2	1/7/12	2900	3800	6700	1.7	4300	5600	9900	1.89	1.795	299	0.75923209	0.98136865	0.98884073	1.11739003	1.60642207
71_3	2/29/12	5900	8300	14200	1.42	2300	3100	5400	2.02	1.72	352	0.72305285	0.97810251	0.97506571	1.10182425	1.56104751
71_4	5/1/12	32	3400	5100	1.43	45	8100	12000	2.58	2.005	414	0.68291203	0.97429553	0.9596419	1.08439534	1.84895667
71_5	5/10/12	17	1800	2600	0.89	27	1700	2500	1.8	1.345	423	0.67727337	0.97374414	0.95746254	1.08193267	1.24314575
71_6	6/7/12	28	2700	4300	1.2	29	2400	3700	2.02	1.61	451	0.66002687	0.97203069	0.95077607	1.07437696	1.49854293
71_7	7/20/12	25	2700	4200	0.85	17	540	880	0.73	0.79	494	0.63439238	0.96940519	0.94077725	1.0630783	0.74312494
71_8	8/7/12	12	590	900	0.81	14	580	960	0.84	0.825	512	0.62395954	0.96830825	0.93668612	1.05845531	0.77943773
71_9	8/29/12	13	670	1100	0.84	12	460	730	0.91	0.875	534	0.611441	0.96696923	0.93175963	1.05288838	0.83104726
71_10	10/2/12	13	500	830	0.69	16	760	1200	0.82	0.755	568	0.59258637	0.96490348	0.9243021	1.04446137	0.72286063
71_11	10/31/12	13	590	970	0.78	13	520	840	0.82	0.8	597	0.57696463	0.96314501	0.91808729	1.03743863	0.77112995
71_12	12/7/12	9.4	330	530	0.91	24	3200	5400	0.96	0.935	634	0.55762989	0.96090609	0.91034743	1.02869259	0.90892071
71_13	1/9/13	16	1400	2500	0.86	18	1500	2700	0.72	0.79	667	0.5409327	0.9589136	0.90361819	1.02108855	0.77368412
71_14	2/19/13	20	2100	4100	0.82	29	4300	8000	0.72	0.77	708	0.52088247	0.95644385	0.89547847	1.01189067	0.76095177
71_15	4/30/13	530	1100	1630	0.64	750	1500	2250	1	0.82	778	0.48835292	0.95224188	0.88212306	0.99679906	0.8226332
71_16	6/18/13	2800	5600	8400	0.766	710	1500	2210	1.346	1.056	827	0.46679868	0.94931149	0.87316167	0.98667269	1.07026373
71_17	6/24/13	4600	9100	13700	0.674	1300	2800	4100	1.314	0.994	833	0.46422562	0.94895329	0.87208547	0.98545658	1.0086695
71_18	7/9/13	2300	4800	7100	0.796	1700	3600	5300	1.2	0.998	848	0.45785486	0.94805838	0.8694147	0.98243861	1.01583955
71_19	8/9/13	700	1600	2300	0.514	760	1600	2360	0.908	0.711	879	0.44496432	0.94621156	0.86398304	0.97630084	0.72825913
71_20	9/10/13	740	1700	2440	0.518	1100	2600	3700	0.952	0.735	911	0.43203852	0.94430894	0.85849762	0.97010231	0.75765204
71_21	10/4/13	1300	3100	4400	0.416	1200	2900	4100	0.44	0.428	935	0.42259118	0.94288449	0.85446244	0.96554255	0.44327409
71_22	12/5/13	550	1200	1750	0.622	950	2300	3250	0.876	0.749	997	0.39913071	0.93921459	0.84434028	0.95410451	0.7850293
71_23	1/8/14	690	1800	2490	0.526	1400	3700	5100	0.522	0.524	1031	0.38682297	0.93720813	0.8389678	0.94803362	0.55272301
71_24	2/6/14	700	1800	2500	0.454	670	1700	2370	0.434	0.444	1060	0.37662556	0.93550012	0.83448157	0.94296418	0.47085564
71_25	4/24/15	470	1600	2070	0.49	790	3000	3790	0.58	0.535	1502	0.25065258	0.90984975	0.77557274	0.8763972	0.6104538
71_26	5/16/15	530	2200	2730	0.55	770	3000	3770	0.59	0.57	1524	0.24562372	0.90859157	0.77304154	0.87353695	0.65251963
71_27	6/13/15	780	2800	3580	0.7	770	3000	3770	0.83	0.765	1552	0.23936901	0.90699277	0.76986733	0.86995008	0.8793608
71_28	7/3/15	720	2800	3520	0.62	680	2900	3580	0.65	0.635	1572	0.23499911	0.90585249	0.76763181	0.86742394	0.73205266
71_29	8/9/15	950	3800	4750	0.67	460	1800	2260	0.45	0.56	1609	0.22712402	0.90374675	0.76356417	0.86282751	0.64902891
71_30	9/3/15	590	2500	3090	0.39	450	1800	2250	0.33	0.36	1634	0.22195296	0.90232673	0.7608646	0.859777	0.41871322
71_31	10/10/15	500	1800	2300	0.48	510	2200	2710	0.32	0.4	1671	0.21451506	0.90022918	0.75693945	0.85534158	0.46764943
71_32	12/14/15	600	2600	3200	0.4	510	2300	2810	0.26	0.33	1736	0.20204693	0.89655611	0.75023939	0.84777051	0.38925628
71_33	1/5/16	430	2000	2430	0.43	460	1900	2360	0.31	0.37	1758	0.19799325	0.89531631	0.7480261	0.84526949	0.43773022
71_34	2/17/16	720	3400	4120	0.42	460	2300	2760	0.27	0.345	1801	0.19030348	0.89289802	0.74377659	0.84046755	0.41048581
71_35	4/25/16	370	2000	2370	0.39	500	2600	3100	0.29	0.34	1869	0.1787479	0.88908708	0.73725513	0.8330983	0.4081151
71_36	5/13/16	370	1900	2270	0.38	460	2400	2860	0.33	0.355	1887	0.17580831	0.88808102	0.73556811	0.83119196	0.42709749
71_37	6/3/16	2200	11000	13200	0.53	530	2400	2930	0.66	0.595	1908	0.17243984	0.88690873	0.73362003	0.82899063	0.71774032
71_38	7/14/16	700	4000	4700	0.51	420	2100	2520	0.29	0.4	1949	0.16604818	0.88462443	0.72987765	0.82476174	0.48498855
71_39	8/20/16	690	3800	4490	0.45	430	2200	2630	0.28	0.365	1986	0.16048372	0.88256803	0.72656769	0.82102149	0.44456815
71_40	9/4/16	530	3300	3830	0.48	390	2400	2790	0.27	0.375	2001	0.15828133	0.88173572	0.72524352	0.81952517	0.45758204
71_41	10/4/16	5200	30000	35200	0.44	510	3000	3510	0.5	0.47	2031	0.15396682	0.88007346	0.7226251	0.81656636	0.5755809
71_42	12/20/16	4000	24000	28000	0.42	460	2700	3160	0.45	0.435	2108	0.14342359	0.8758213	0.7160808	0.80917131	0.53758703
71_43	1/10/17	3600	23000	26600	0.4	360	2100	2460	0.29	0.345	2129	0.14067561	0.8746652	0.71433843	0.80720243	0.42740208
71_44	2/3/17	5800	36000	41800	0.41	430	2600	3030	0.43	0.42	2153	0.13759947	0.8733458	0.71236866	0.80497658	0.52175431
71_45	4/25/17	2000	14000	16000	0.25	360	2400	2760	0.41	0.33	2234	0.12770558	0.8689075	0.70588396	0.79764888	0.41371587
71_46	5/24/17	500	3400	3900	0.31	350	2600	2950	0.37	0.34	2263	0.12433901	0.86732397	0.70362122	0.79509198	0.42762348
71_47	6/17/17	600	4400	5000	0.31	360	2700	3060	0.38	0.345	2287	0.1216201	0.86601565	0.70177123	0.79300149	0.43505593
71_48	7/14/17	500	3700	4200	0.31	330	2400	2730	0.4	0.355	2314	0.11863233	0.86454614	0.69971391	0.79067671	0.44898249
71_49	8/12/17	350	2500	2850	0.3	360	2500	2860	0.32	0.31	2343	0.11550495	0.86297056	0.69753178	0.78821091	0.39329575
71_50	9/3/17	340	2600	2940	0.3	340	2800	3140	0.35	0.325	2365	0.11318757	0.86177721	0.69589501	0.78636136	0.413296
71_51	10/28/17	530	4300	4830	0.21	140	1200	1340	0.2	0.205	2420	0.10759548	0.85880104	0.69187135	0.78181462	0.2622105
71_52	12/20/17	410	3400	3810	0.23	130	1100	1230	0.23	0.23	2473	0.1024683	0.85594282	0.68808294	0.77753372	0.29580711
71_53	1/28/18	290	2300	2590	0.19	130	1400	1530	0.2	0.195	2512	0.09885217	0.85384568	0.68534872	0.77444406	0.25179353
71_54	2/13/18	290	2400	2690	0.22	240	2100	2340	0.23	0.225	2528	0.09740581	0.85298681	0.68423972	0.77319088	0.29100188
71_55	4/28/18	200	1800	2000	0.22	130	1400	1530	0.23	0.225	2602	0.09098683	0.84902572	0.67920342	0.76749986	0.29315966
71_56	5/17/18	240	2800	3040	0.25	160	1500	1660	0.22	0.235	2621	0.08940811	0.84801165	0.67793421	0.76606566	0.30676222
71_57	6/1/18	190	1900	2090	0.26	140	1300	1440	0.23	0.245	2636	0.08818113	0.84721193	0.6769389	0.76494095	0.32028616
71_58	7/15/18	230	2100	2330	0.31	120	1200	1320	0.31	0.31	2680	0.08467826	0.84487043	0.67405264	0.76167948	0.40699534
71_59	8/1/18	240	2300	2540	0.42	120	1300	1420	0.27	0.345	2697	0.08336245	0.84396749	0.67295053	0.76043409	0.45368823
71_60	9/11/18	210	2100	2310	0.31	160	1500	1660	0.27	0.29	2738	0.08027254	0.84179379	0.67032155	0.75746335	0.38285681
71_61	10/22/18	210	2200	2410	0.24	120	1300	1420	0.21	0.225	2779	0.07729715	0.83962568	0.66773255	0.75453778	0.2981958
71_62	12/1/18	160	1800	1960	0.26	140	1700	1840	0.24	0.25	2819	0.07450065	0.83751584	0.66524394	0.75172565	0.33256814
71_63	1/19/19	170	1900	2070	0.34	110	1400	1510	0.34	0.34	2868	0.07121245	0.83493851	0.66224377	0.74833546	0.45434169
71_64	2/4/19	170	1900	2070	0.37	130	1600	1730	0.35	0.36	2884	0.0701705	0.83409865	0.66127533	0.74724113	0.4817722
71_65	4/27/19	160	2200	2360	0.24	160	2000	2160	0.29	0.265	2966	0.06506502	0.82980761	0.6563953	0.74172669	0.35727446
71_66	5/14/19	140	1700	1840	0.23	120	1600	1720	0.24	0.235	2983	0.06405398	0.82892077	0.65540048	0.74060254	0.3173092
71_67	6/2/19	99	1500	1599	0.2	120	1700	1820	0.2	0.2	3002	0.06294258	0.82793072	0.65429526	0.73935365	0.27050654
71_68	7/8/19	130	1800	1930	0.3	96	1500	1596	0.3	0.3	3038	0.06088937	0.82605807	0.65222005	0.73700866	0.40705085
71_69	8/11/19	510	7300	7810	0.41	130	1900	2030	0.31	0.36	3072	0.05901176	0.82429335	0.65028228	0.73481898	0.48991658
71_70	9/13/19	160	2300	2460	0.28	110	1600	1710	0.32	0.3	3105	0.05724476	0.82258414	0.64842153	0.73271632	0.4094354
71_71	10/3/19	330	4900	5230	0.21	110	1700	1810	0.21	0.21	3125	0.05619971	0.82154998	0.64730317	0.73145258	0.28709995
71_72	12/14/19	120	2100	2220	0.13	57	960	1017	0.15	0.14	3197	0.052593	0.81783776	0.64333378	0.72696717	0.19258091
71_73	1/27/20	67	1000	1067	0.2	51	910	961	0.25	0.225	3241	0.05050381	0.81557744	0.64095017	0.72427369	0.31065604
71_74	2/15/20	69	1200	1269	0.2	47	820	867	0.23	0.215	3260	0.04962752	0.81460333	0.63993042	0.72312137	0.29732215
71_75	7/17/20	41	740	781	0.25	68	1200	1268	0.25	0.25	3413	0.0431032	0.80680143	0.63191696	0.71406617	0.35010761
71_76	8/7/20	46	910	956	0.18	68	1200	1268	0.2	0.19	3434	0.04227735	0.80573643	0.63084325	0.71285288	0.26653466
71_77	9/11/20	38	760	798	0.24	53	1100	1153	0.27	0.255	3469	0.04093594	0.80396455	0.62906704	0.71084576	0.35872761
71_78	10/22/20	41	790	831	0.13	64	1500	1564	0.23	0.18	3510	0.03941861	0.80189388	0.62700697	0.70851788	0.25405146
71_79	11/29/20	50	970	1020	0.27	71	1200	1271	0.31	0.29	3548	0.03806256	0.79997948	0.62511695	0.70638215	0.41054265
71_80	12/17/20	44	760	804	0.23	58	1300	1358	0.25	0.24	3566	0.03743661	0.79907426	0.624228	0.70537764	0.34024328
71_81	1/11/21	46	1100	1146	0.26	48	1100	1148	0.28	0.27	3591	0.03658427	0.7978187	0.62299996	0.70398996	0.3835282
71_82	2/1/21	39	840	879	0.23	43	970	1013	0.26	0.245	3612	0.03588332	0.79676556	0.62197426	0.70283091	0.34859025
71_83	4/22/21	160	3900	4060	0.18	58	1400	1458	0.17	0.175	3692	0.03333387	0.7927663	0.61811421	0.69846905	0.25054797
71_84	5/20/21	19	770	789	0.23	28	1000	1028	0.23	0.23	3720	0.03248504	0.79137131	0.61678037	0.69696182	0.33000373
71_85	6/7/21	19	780	799	0.18	37	1100	1137	0.22	0.2	3738	0.03195081	0.79047583	0.61592746	0.69599804	0.28735713
71_86	7/17/21	120	3200	3320	0.13	55	1200	1255	0.2	0.165	3778	0.03079488	0.78848949	0.61404463	0.69387044	0.23779656
71_87	8/31/21	26	700	726	0.21	36	1100	1136	0.2	0.205	3823	0.02954436	0.78626083	0.61194657	0.69149963	0.29645714
71_88	9/20/21	28	1000	1028	0.18	33	1100	1133	0.23	0.205	3843	0.029005	0.78527233	0.61102077	0.69045347	0.29690632
71_89	10/24/21	26	750	776	0.23	29	920	949	0.2	0.215	3877	0.0281106	0.78359474	0.6094561	0.68868539	0.312189
71_90	12/20/21	43	990	1033	0.19	21	1000	1021	0.22	0.205	3934	0.02667259	0.78079035	0.60685827	0.68574985	0.29894283
71_91	1/13/22	35	950	985	0.22	42	1200	1242	0.24	0.23	3958	0.02608934	0.77961256	0.60577368	0.68452426	0.33599978
71_92	2/17/22	43	1400	1443	0.16	31	1200	1231	0.23	0.195	3993	0.02526156	0.77789813	0.60420153	0.68274772	0.28561062
71_93	4/27/22	110	3900	4010	0.2	83	2100	2183	0.23	0.215	4062	0.02370578	0.77452929	0.60113431	0.67928177	0.31651078
71_94	5/19/22	93	3100	3193	0.21	39	1500	1539	0.21	0.21	4084	0.02323017	0.77345824	0.60016508	0.67818654	0.30964932
71_95	6/11/22	94	3400	3494	0.1	38	1500	1538	0.12	0.11	4107	0.02274314	0.77234009	0.59915618	0.67704648	0.16247038
71_96	7/9/22	100	3700	3800	0.13	43	1600	1643	0.17	0.15	4135	0.022164	0.77098104	0.59793392	0.67566533	0.2220034
71_97	8/10/22	45	1800	1845	0.19	32	920	952	0.2	0.195	4167	0.02152015	0.76943077	0.59654491	0.67409575	0.28927641
71_98	9/14/22	260	8900	9160	0.13	27	1200	1227	0.16	0.145	4202	0.02083735	0.76773873	0.59503508	0.67238964	0.21564877
71_99	10/12/22	120	5000	5120	0.17	45	1300	1345	0.19	0.18	4230	0.02030673	0.76638778	0.59383414	0.67103258	0.26824331
71_100	12/23/22	33	1300	1333	0.19	35	1500	1535	0.18	0.185	4302	0.01900351	0.76292481	0.59077345	0.667574	0.27712284
71_101	1/19/23	110	3300	3410	0.16	33	1500	1533	0.19	0.175	4329	0.01853666	0.76163023	0.5896356	0.66628823	0.2626491
71_102	2/3/23	49	2400	2449	0.12	38	1700	1738	0.2	0.16	4344	0.01828228	0.76091197	0.58900573	0.66557648	0.24039311
71_103	4/25/23	71	3100	3171	0.12	18	900	918	0.22	0.17	4425	0.01696772	0.75704506	0.58563185	0.66176399	0.25688917
71_104	5/18/23	43	1900	1943	0.16	24	1200	1224	0.18	0.17	4448	0.01661198	0.75595064	0.58468205	0.66069071	0.25730648
71_105	6/21/23	110	5500	5610	0.16	35	1700	1735	0.19	0.175	4482	0.01609973	0.75433569	0.58328445	0.65911143	0.26550898
71_106	7/6/23	160	7100	7260	0.11	22	1200	1222	0.2	0.155	4497	0.01587879	0.75362431	0.58267028	0.65841741	0.23541297
71_107	8/17/23	88	4600	4688	0.16	36	1900	1936	0.2	0.18	4539	0.01527614	0.75163601	0.58095832	0.6564829	0.27418841
71_108	9/13/23	110	5900	6010	0.13	30	1400	1430	0.2	0.165	4566	0.01490086	0.75036059	0.57986367	0.65524595	0.25181384
71_109	10/25/23	62	3100	3162	0.17	20	1300	1320	0.23	0.2	4608	0.01433533	0.7483809	0.57816988	0.65333196	0.30612309
71_110	12/6/23	43	2800	2843	0.15	36	2400	2436	0.21	0.18	4650	0.01379127	0.74640644	0.57648677	0.65143005	0.27631516
71_111	1/16/24	59	2700	2759	0.1	14	1200	1214	0.21	0.155	4691	0.01328008	0.74448401	0.57485379	0.64958479	0.23861396
71_112	2/2/24	62	3000	3062	0.15	26	1400	1426	0.21	0.18	4708	0.01307372	0.74368836	0.57417956	0.64882291	0.27742547
71_113	4/23/24	36	2000	2036	0.15	30	1200	1230	0.2	0.175	4789	0.01213368	0.73990898	0.57098945	0.64521808	0.27122612
71_114	5/21/24	28	1600	1628	0.13	21	1400	1421	0.2	0.165	4817	0.0118247	0.738607	0.5698951	0.64398147	0.25621855
71_115	6/12/24	25	1800	1825	0.1	10	510	520	0.13	0.115	4839	0.01158746	0.73758562	0.56903821	0.64301318	0.17884548
71_116	7/3/24	14	930	944	0.11	28	1500	1528	0.19	0.15	4860	0.01136544	0.73661199	0.56822267	0.64209161	0.23361152
71_117	8/23/24	30	1900	1930	0.14	32	1600	1632	0.14	0.14	4911	0.01084381	0.7342528	0.56625162	0.63986433	0.21879638
71_118	9/26/24	29	2900	2929	0.14	26	1600	1626	0.17	0.155	4945	0.01050943	0.7326842	0.56494497	0.63838782	0.24279912

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
72_1	11/23/11	3100	4000	7100	0.38	1200	1500	2700	0.57	0.475	254	0.79136781	0.98415035	1.00098468	0.47546772	0.99901629
72_2	1/7/12	240	350	590	0.55	410	540	950	0.89	0.72	299	0.75923209	0.98136865	0.98884073	0.46969935	1.53289546
72_3	2/29/12	520	740	1260	0.58	950	1200	2150	0.8	0.69	352	0.72305285	0.97810251	0.97506571	0.46315621	1.48977814
72_4	5/1/12	17	1900	2700	0.61	12	590	880	0.79	0.7	414	0.68291203	0.97429553	0.9596419	0.4558299	1.53566056
72_5	5/9/12	8.4	290	430	0.48	18	1300	1900	0.7	0.59	422	0.67789758	0.97380539	0.95770396	0.45490938	1.2969616
72_6	6/7/12	11	430	640	0.51	15	720	1100	0.57	0.54	451	0.66002687	0.97203069	0.95077607	0.45161864	1.19569911
72_7	7/20/12	12	680	1100	0.44	11	370	650	0.41	0.425	494	0.63439238	0.96940519	0.94077725	0.4468692	0.9510613
72_8	8/7/12	8.9	320	530	0.42	13	670	1100	0.45	0.435	512	0.62395954	0.96830825	0.93668612	0.4449259	0.97769088
72_9	8/27/12	9.8	360	590	0.47	12	580	880	0.45	0.46	532	0.61256859	0.96709089	0.93220417	0.44279698	1.0388508
72_10	10/16/12	14	920	1500	0.42	20	2200	3700	0.68	0.55	582	0.58499273	0.96405416	0.9212853	0.43761052	1.25682537
72_11	11/14/12	9.5	340	580	0.31	14	880	1500	0.71	0.51	611	0.56957117	0.96229723	0.91513404	0.43468867	1.17325349
72_12	12/7/12	13	650	1200	0.35	18	1800	3200	0.62	0.485	634	0.55762989	0.96090609	0.91034743	0.43241503	1.12160764
72_13	1/10/13	8.3	260	480	0.37	30	3600	6800	0.67	0.52	668	0.5404346	0.95885329	0.90341677	0.42912297	1.21177387
72_14	2/28/13	9.6	400	740	0.37	23	2600	4900	0.66	0.515	717	0.51658165	0.95590256	0.89372365	0.42451873	1.21313845
72_15	4/30/13	190	360	550	0.238	550	1100	1650	0.498	0.368	778	0.48835292	0.95224188	0.88212306	0.41900846	0.8782639
72_16	6/18/13	600	1300	1900	0.248	690	1400	2090	0.514	0.381	827	0.46679868	0.94931149	0.87316167	0.4147518	0.9186217
72_17	6/24/13	510	1100	1610	0.254	650	1200	1850	0.52	0.387	833	0.46422562	0.94895329	0.87208547	0.4142406	0.93423967
72_18	7/9/13	590	1100	1690	0.242	650	1400	2050	0.466	0.354	848	0.45785486	0.94805838	0.8694147	0.41297198	0.85720101
72_19	8/5/13	1000	2200	3200	0.302	620	1500	2120	0.454	0.378	875	0.44660701	0.94644966	0.86467733	0.41072173	0.92033115
72_20	9/11/13	580	1300	1880	0.348	540	1300	1840	0.43	0.389	912	0.4316407	0.94424954	0.85832815	0.40770587	0.9541192
72_21	10/4/13	600	1300	1900	0.24	530	1300	1830	0.32	0.28	935	0.42259118	0.94288449	0.85446244	0.40588966	0.68987665
72_22	12/5/13	320	760	1080	0.302	410	1000	1410	0.492	0.397	997	0.39913071	0.93921459	0.84434028	0.40106163	0.9898728
72_23	1/8/14	300	680	980	0.29	460	1100	1560	0.366	0.328	1031	0.38682297	0.93720813	0.8389678	0.39850971	0.82306653
72_24	2/6/14	300	810	1110	0.386	540	1300	1840	0.282	0.334	1060	0.37662556	0.93550012	0.83448157	0.39637875	0.84262843
72_25	5/3/15	120	410	530	0.21	170	680	850	0.26	0.235	1511	0.24858299	0.90933483	0.77453325	0.36790329	0.63875481
72_26	5/16/15	120	420	540	0.21	200	730	930	0.26	0.235	1524	0.24562372	0.90859157	0.77304154	0.36719473	0.63998739
72_27	6/13/15	120	350	470	0.24	240	910	1150	0.35	0.295	1552	0.23936901	0.90699277	0.76986733	0.36568698	0.80670085
72_28	7/3/15	93	410	503	0.23	290	1100	1390	0.3	0.265	1572	0.23499911	0.90585249	0.76763181	0.36462511	0.72677387
72_29	8/9/15	110	430	540	0.21	190	850	1040	0.28	0.245	1609	0.22712402	0.90374675	0.76356417	0.36269298	0.67550246
72_30	9/3/15	130	520	650	0.18	190	800	990	0.29	0.235	1634	0.22195296	0.90232673	0.7608646	0.36141069	0.65022981
72_31	10/10/15	120	590	710	0.21	180	720	900	0.21	0.21	1671	0.21451506	0.90022918	0.75693945	0.35954624	0.58406952
72_32	12/14/15	130	570	700	0.16	160	760	920	0.2	0.18	1736	0.20204693	0.89655611	0.75023939	0.35636371	0.50510193
72_33	1/5/16	110	560	670	0.17	130	660	790	0.22	0.195	1758	0.19799325	0.89531631	0.7480261	0.3553124	0.54881283
72_34	2/17/16	89	480	569	0.15	140	730	870	0.2	0.175	1801	0.19030348	0.89289802	0.74377659	0.35329388	0.49533833
72_35	4/25/16	93	500	593	0.18	130	620	750	0.2	0.19	1869	0.1787479	0.88908708	0.73725513	0.35019619	0.54255302
72_36	5/13/16	84	460	544	0.18	140	760	900	0.22	0.2	1887	0.17580831	0.88808102	0.73556811	0.34939485	0.57241828
72_37	6/3/16	61	420	481	0.16	570	2900	3470	0.36	0.26	1908	0.17243984	0.88690873	0.73362003	0.34846951	0.74611979
72_38	7/14/16	92	460	552	0.19	130	750	880	0.22	0.205	1949	0.16604818	0.88462443	0.72987765	0.34669188	0.59130314
72_39	8/15/16	83	400	483	0.2	170	1000	1170	0.3	0.25	1981	0.16122464	0.88284565	0.72701133	0.34533038	0.72394442
72_40	9/4/16	88	500	588	0.14	120	630	750	0.17	0.155	2001	0.15828133	0.88173572	0.72524352	0.34449067	0.44993962
72_41	10/4/16	110	590	700	0.15	98	530	628	0.19	0.17	2031	0.15396682	0.88007346	0.7226251	0.34324692	0.49527028
72_42	12/22/16	130	820	950	0.13	110	770	880	0.22	0.175	2110	0.14315958	0.87571113	0.7159141	0.3400592	0.51461628
72_43	1/10/17	83	640	723	0.16	89	670	759	0.2	0.18	2129	0.14067561	0.8746652	0.71433843	0.33931076	0.53048716
72_44	2/2/17	52	460	512	0.14	130	710	840	0.2	0.17	2152	0.13772629	0.87340073	0.71245028	0.33841388	0.50234346
72_45	4/25/17	99	730	829	0.13	110	860	970	0.19	0.16	2234	0.12770558	0.8689075	0.70588396	0.33529488	0.47719189
72_46	5/24/17	82	600	682	0.15	110	840	950	0.19	0.17	2263	0.12433901	0.86732397	0.70362122	0.33422008	0.50864688
72_47	6/17/17	77	620	697	0.15	120	930	1050	0.22	0.185	2287	0.1216201	0.86601565	0.70177123	0.33334133	0.55498668
72_48	7/14/17	72	530	602	0.15	120	860	980	0.17	0.16	2314	0.11863233	0.86454614	0.69971391	0.33238411	0.48139976
72_49	8/12/17	71	580	651	0.13	77	660	737	0.15	0.14	2343	0.11550495	0.86297056	0.69753178	0.33132759	0.42254253
72_50	9/3/17	72	560	632	0.14	97	730	827	0.13	0.135	2365	0.11318757	0.86177721	0.69589501	0.33055013	0.40841007
72_51	10/28/17	50	460	510	0.1	93	710	803	0.13	0.115	2420	0.10759548	0.85880104	0.69187135	0.32863889	0.34992815
72_52	12/20/17	21	170	191	0.09	82	790	872	0.14	0.115	2473	0.1024683	0.85594282	0.68808294	0.3268394	0.35185477
72_53	1/28/18	31	210	241	0.09	65	670	735	0.11	0.1	2512	0.09885217	0.85384568	0.68534872	0.32554064	0.30718131
72_54	2/13/18	20	310	330	0.1	75	720	795	0.14	0.12	2528	0.09740581	0.85298681	0.68423972	0.32501387	0.36921502
72_55	4/28/18	15	160	175	0.09	51	550	601	0.12	0.105	2602	0.09098683	0.84902572	0.67920342	0.32262162	0.32545866
72_56	5/17/18	24	250	274	0.08	64	730	794	0.13	0.105	2621	0.08940811	0.84801165	0.67793421	0.32201875	0.32606797
72_57	6/1/18	16	170	186	0.09	67	660	727	0.12	0.105	2636	0.08818113	0.84721193	0.6769389	0.32154598	0.32654739
72_58	7/15/18	15	140	155	0.13	57	450	507	0.15	0.14	2680	0.08467826	0.84487043	0.67405264	0.320175	0.43726087
72_59	8/1/18	18	220	238	0.14	60	550	610	0.19	0.165	2697	0.08336245	0.84396749	0.67295053	0.3196515	0.51618716
72_60	9/11/18	17	180	197	0.1	57	590	647	0.14	0.12	2738	0.08027254	0.84179379	0.67032155	0.31840274	0.37688118
72_61	10/22/18	23	280	303	0.09	46	550	596	0.1	0.095	2779	0.07729715	0.83962568	0.66773255	0.31717296	0.29952112
72_62	12/1/18	52	560	612	0.09	22	270	292	0.11	0.1	2819	0.07450065	0.83751584	0.66524394	0.31599087	0.31646484
72_63	1/19/19	17	170	187	0.13	53	630	683	0.17	0.15	2868	0.07121245	0.83493851	0.66224377	0.31456579	0.47684778
72_64	2/4/19	23	250	273	0.13	50	650	700	0.16	0.145	2884	0.0701705	0.83409865	0.66127533	0.31410578	0.46162792
72_65	4/27/19	12	140	152	0.11	44	620	664	0.14	0.125	2966	0.06506502	0.82980761	0.6563953	0.31178777	0.40091374
72_66	5/14/19	15	170	185	0.08	54	590	644	0.13	0.105	2983	0.06405398	0.82892077	0.65540048	0.31131523	0.33727872
72_67	6/2/19	11	150	161	0.08	54	710	764	0.1	0.09	3002	0.06294258	0.82793072	0.65429526	0.31079025	0.28958437
72_68	7/8/19	17	200	217	0.11	47	520	567	0.15	0.13	3038	0.06088937	0.82605807	0.65222005	0.30980452	0.41961944
72_69	8/11/19	11	140	151	0.1	31	530	561	0.15	0.125	3072	0.05901176	0.82429335	0.65028228	0.30888408	0.40468255
72_70	9/13/19	15	220	235	0.12	42	600	642	0.16	0.14	3105	0.05724476	0.82258414	0.64842153	0.30800022	0.45454512
72_71	10/3/19	12	150	162	0.1	34	540	574	0.11	0.105	3125	0.05619971	0.82154998	0.64730317	0.30746901	0.34149784
72_72	12/14/19	7.4	39	39	0.06	22	270	292	0.07	0.065	3197	0.052593	0.81783776	0.64333378	0.30558354	0.21270779
72_73	1/27/20	4.5	44	44	0.08	15	250	265	0.1	0.09	3241	0.05050381	0.81557744	0.64095017	0.30445133	0.29561375
72_74	2/15/20	6.3	44	44	0.09	20	240	260	0.12	0.105	3260	0.04962752	0.81460333	0.63993042	0.30396695	0.34543229
72_75	7/17/20	18	340	358	0.08	4.8	58	58	0.11	0.095	3413	0.0431032	0.80680143	0.63191696	0.30016056	0.31649728
72_76	8/7/20	6	71	71	0.07	19	320	339	0.09	0.08	3434	0.04227735	0.80573643	0.63084325	0.29965055	0.26697765
72_77	9/11/20	6.2	67	67	0.06	17	310	327	0.1	0.08	3469	0.04093594	0.80396455	0.62906704	0.29880685	0.26773148
72_78	10/22/20	5.5	79	79	0.09	16	330	346	0.12	0.105	3510	0.03941861	0.80189388	0.62700697	0.29782831	0.35255211
72_79	11/29/20	5.1	81	81	0.09	21	440	461	0.12	0.105	3548	0.03806256	0.79997948	0.62511695	0.29693055	0.35361804
72_80	12/17/20	6.3	100	106.3	0.09	20	410	430	0.1	0.095	3566	0.03743661	0.79907426	0.624228	0.2965083	0.32039575
72_81	1/11/21	6	79	79	0.11	28	520	548	0.12	0.115	3591	0.03658427	0.7978187	0.62299996	0.29592498	0.388612
72_82	2/1/21	6.8	150	156.8	0.12	18	430	448	0.11	0.115	3612	0.03588332	0.79676556	0.62197426	0.29543777	0.38925287
72_83	4/22/21	24	470	494	0.09	11	290	301	0.09	0.09	3692	0.03333387	0.7927663	0.61811421	0.29360425	0.30653507
72_84	5/20/21	40	1200	1240	0.19	14	270	284	0.13	0.16	3720	0.03248504	0.79137131	0.61678037	0.29297068	0.54612974
72_85	6/7/21	10	160	170	0.12	13	290	303	0.15	0.135	3738	0.03195081	0.79047583	0.61592746	0.29256555	0.46143506
72_86	7/17/21	24	650	674	0.09	7.6	310	317.6	0.11	0.1	3778	0.03079488	0.78848949	0.61404463	0.2916712	0.34285181
72_87	8/31/21	35	850	885	0.09	18	390	408	0.1	0.095	3823	0.02954436	0.78626083	0.61194657	0.29067462	0.32682592
72_88	9/20/21	11	280	291	0.11	14	340	354	0.1	0.105	3843	0.029005	0.78527233	0.61102077	0.29023486	0.36177597
72_89	10/24/21	11	290	301	0.11	17	340	357	0.11	0.11	3877	0.0281106	0.78359474	0.6094561	0.28949165	0.37997642
72_90	12/20/21	7.9	190	190	0.1	14	400	414	0.12	0.11	3934	0.02667259	0.78079035	0.60685827	0.28825768	0.38160302
72_91	1/13/22	8.2	240	240	0.09	15	470	485	0.11	0.1	3958	0.02608934	0.77961256	0.60577368	0.2877425	0.34753295
72_92	2/15/22	10	210	220	0.11	12	400	412	0.09	0.1	3991	0.02530815	0.777996	0.60429106	0.28703825	0.34838562
72_93	4/28/22	8.5	280	280	0.1	9.5	360	369.5	0.11	0.105	4063	0.02368395	0.77448058	0.60109017	0.28551783	0.36775287
72_94	5/19/22	7.6	90	90	0.06	21	750	771	0.09	0.075	4084	0.02323017	0.77345824	0.60016508	0.28507841	0.26308551
72_95	6/11/22	20	660	680	0.08	32	1400	1432	0.09	0.085	4107	0.02274314	0.77234009	0.59915618	0.28459919	0.29866565
72_96	7/9/22	22	400	422	0.06	22	750	772	0.09	0.075	4135	0.022164	0.77098104	0.59793392	0.28401861	0.2640672
72_97	8/10/22	7.5	68	68	0.09	16	460	476	0.1	0.095	4167	0.02152015	0.76943077	0.59654491	0.28335883	0.33526395
72_98	9/14/22	18	670	688	0.06	10	470	480	0.09	0.075	4202	0.02083735	0.76773873	0.59503508	0.28264166	0.26535366
72_99	10/12/22	21	700	721	0.09	23	640	663	0.1	0.095	4230	0.02030673	0.76638778	0.59383414	0.28207122	0.33679438
72_100	12/23/22	6	230	236	0.1	39	1200	1239	0.13	0.115	4302	0.01900351	0.76292481	0.59077345	0.28061739	0.40981067
72_101	1/16/23	11	560	571	0.11	14	430	444	0.13	0.12	4326	0.01858796	0.76177397	0.58976177	0.28013684	0.42836208
72_102	2/3/23	14	710	724	0.1	13	440	453	0.13	0.115	4344	0.01828228	0.76091197	0.58900573	0.27977772	0.41104059
72_103	4/25/23	6.7	120	120	0.09	20	760	780	0.11	0.1	4425	0.01696772	0.75704506	0.58563185	0.27817513	0.35948577
72_104	5/18/23	6.1	120	120	0.1	18	530	548	0.11	0.105	4448	0.01661198	0.75595064	0.58468205	0.27772397	0.37807323
72_105	6/21/23	8.1	110	110	0.09	10	510	520	0.11	0.1	4482	0.01609973	0.75433569	0.58328445	0.27706011	0.3609325
72_106	7/6/23	10	540	550	0.1	14	650	664	0.12	0.11	4497	0.01587879	0.75362431	0.58267028	0.27678838	0.39744424
72_107	8/15/23	12	290	302	0.1	9.3	390	390	0.11	0.105	4537	0.01530431	0.75173057	0.58103958	0.2759938	0.38044333
72_108	9/12/23	7.5	160	160	0.09	9.8	550	550	0.12	0.105	4565	0.0149146	0.75040779	0.57990413	0.27545446	0.38118823
72_109	10/25/23	9	360	360	0.12	8.8	420	420	0.14	0.13	4608	0.01433533	0.7483809	0.57816988	0.27463069	0.47336297
72_110	12/6/23	8.5	230	230	0.11	8.8	480	480	0.13	0.12	4650	0.01379127	0.74640644	0.57648677	0.27383121	0.43822615
72_111	1/16/24	10	560	570	0.09	19	710	729	0.13	0.11	4691	0.01328008	0.74448401	0.57485379	0.27305555	0.40284843
72_112	2/2/24	6.6	150	150	0.1	9.4	480	480	0.15	0.125	4708	0.01307372	0.74368836	0.57417956	0.27273529	0.45831986
72_113	4/23/24	7.3	530	537.3	0.11	22	1300	1322	0.13	0.12	4789	0.01213368	0.73990898	0.57098945	0.27121999	0.44244526
72_114	5/21/24	11	520	531	0.1	11	640	651	0.12	0.11	4817	0.0118247	0.738607	0.5698951	0.27070017	0.40635364
72_115	6/12/24	10	440	450	0.07	16	740	756	0.11	0.09	4839	0.01158746	0.73758562	0.56903821	0.27029315	0.33297181
72_116	7/3/24	7.5	430	430	0.1	13	850	863	0.12	0.11	4860	0.01136544	0.73661199	0.56822267	0.26990577	0.40754965
72_117	8/23/24	8.1	600	608.1	0.08	11	930	941	0.11	0.095	4911	0.01084381	0.7342528	0.56625162	0.26896952	0.35319987
72_118	9/26/24	12	620	632	0.08	8.8	730	730	0.11	0.095	4945	0.01050943	0.7326842	0.56494497	0.26834886	0.35401678

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
73_1	11/23/11	2700	3500	6200	0.38	2300	3100	5400	0.37	0.375	254	0.79136781	0.98415035	1.00098468	0.37536925	0.99901629
73_2	1/6/12	2200	2900	5100	0.72	3800	4900	8700	0.52	0.62	298	0.75993184	0.98143038	0.98910605	0.37091477	1.67154303
73_3	5/4/12	6.6	130	210	0.38	23	2500	3600	0.5	0.44	417	0.68102728	0.9741117	0.9589138	0.35959267	1.22360668
73_4	7/18/12	8.1	210	350	0.36	17	1500	2400	0.43	0.395	492	0.6355623	0.96952715	0.94123522	0.35296321	1.11909681
73_5	10/2/12	9.5	400	670	0.37	14	1000	1700	0.38	0.375	568	0.59258637	0.96490348	0.9243021	0.34661329	1.08189736
73_6	10/31/12	11	520	870	0.3	24	2400	4100	0.49	0.395	597	0.57696463	0.96314501	0.91808729	0.34428273	1.14731284
73_7	12/26/12	17	1500	2800	0.29	16	1500	2700	0.37	0.33	653	0.54795441	0.95975839	0.90645333	0.33992	0.97081667
73_8	5/8/13	400	830	1230	0.274	980	1900	2880	0.378	0.326	786	0.48476707	0.95176283	0.8806387	0.33023951	0.98716231
73_9	6/20/13	130	280	410	0.408	880	1800	2680	0.416	0.412	829	0.46593941	0.94919208	0.87280244	0.32730091	1.25878048
73_10	8/22/13	240	560	800	0.302	1600	3400	5000	0.334	0.318	892	0.43966722	0.94543816	0.86173991	0.32315247	0.98405562
73_11	10/4/13	430	850	1280	0.18	1400	3100	4500	0.21	0.195	935	0.42259118	0.94288449	0.85446244	0.32042341	0.60856976
73_12	12/6/13	100	250	350	0.236	930	2200	3130	0.354	0.295	998	0.39876319	0.93915551	0.84418049	0.31656769	0.93187022
73_13	2/6/14	380	870	1250	0.26	1200	3000	4200	0.33	0.295	1060	0.37662556	0.93550012	0.83448157	0.31293059	0.94270106
73_14	5/15/15	80	300	380	0.21	640	2300	2940	0.3	0.255	1523	0.2458501	0.90864873	0.77315588	0.28993346	0.87951216
73_15	6/10/15	320	1100	1420	0.21	590	2300	2890	0.27	0.24	1549	0.24003146	0.90716394	0.77020492	0.28882685	0.83094769
73_16	8/12/15	150	580	730	0.21	900	3600	4500	0.25	0.23	1612	0.22649719	0.90357623	0.76323817	0.28621431	0.80359364
73_17	10/9/15	190	760	950	0.25	400	1600	2000	0.22	0.235	1670	0.21471277	0.90028581	0.75704445	0.28389167	0.82778054
73_18	12/10/15	130	530	660	0.19	1200	5400	6600	0.21	0.2	1732	0.20279283	0.89678171	0.75064471	0.28149177	0.71050035
73_19	1/10/16	250	1000	1250	0.22	480	2200	2680	0.24	0.23	1763	0.19708336	0.89503478	0.74752681	0.28032255	0.82048339
73_20	5/1/16	130	760	890	0.23	440	2300	2740	0.24	0.235	1875	0.17776261	0.8887516	0.73669101	0.27625913	0.85065063
73_21	6/7/16	150	660	810	0.24	450	2300	2750	0.24	0.24	1912	0.17180559	0.88668561	0.73325139	0.27496927	0.8728248
73_22	8/13/16	110	560	670	0.23	650	3700	4350	0.26	0.245	1979	0.16152196	0.88295671	0.7271891	0.27269591	0.89843664
73_23	10/6/16	150	920	1070	0.22	400	2600	3000	0.23	0.225	2033	0.15368341	0.87996275	0.72245194	0.27091948	0.83050508
73_24	12/2/16	130	700	830	0.18	320	1900	2220	0.18	0.18	2090	0.14582169	0.87681347	0.71758849	0.26909568	0.66890705
73_25	1/27/17	180	1200	1380	0.15	320	2300	2620	0.14	0.145	2146	0.13848966	0.87373042	0.71294083	0.26735281	0.5423545
73_26	5/3/17	97	750	847	0.18	300	2100	2400	0.17	0.175	2242	0.12676787	0.86847038	0.70525673	0.26447128	0.66169757
73_27	6/2/17	49	440	489	0.15	270	2100	2370	0.16	0.155	2272	0.12331237	0.86683312	0.7029251	0.26359691	0.58801903
73_28	8/11/17	68	510	578	0.15	240	2100	2340	0.15	0.15	2342	0.11561141	0.86302484	0.69760655	0.26160246	0.57338911
73_29	10/24/17	110	930	1040	0.16	150	1300	1450	0.14	0.15	2416	0.1079927	0.85901714	0.69216076	0.25956028	0.57790043
73_30	12/9/17	120	1100	1220	0.16	200	1700	1900	0.13	0.145	2462	0.10351195	0.85653526	0.68886223	0.25832334	0.56131204
73_31	1/27/18	83	740	823	0.11	250	2100	2350	0.1	0.105	2511	0.09894328	0.85389939	0.68541828	0.25703186	0.40850968
73_32	5/2/18	140	1100	1240	0.14	340	3100	3440	0.14	0.14	2606	0.09065217	0.84881213	0.67893542	0.25460078	0.54988048
73_33	6/4/18	110	1200	1310	0.14	300	2700	3000	0.13	0.135	2639	0.08793776	0.84705208	0.67674053	0.2537777	0.53196163
73_34	8/5/18	56	620	676	0.15	200	1900	2100	0.12	0.135	2701	0.08305583	0.84375518	0.67269224	0.25225959	0.535163
73_35	10/4/18	110	1200	1310	0.15	160	1700	1860	0.12	0.135	2761	0.07858959	0.84057685	0.66886435	0.25082413	0.53822573
73_36	11/2/18	85	850	935	0.13	190	2000	2190	0.12	0.125	2790	0.07651781	0.83904495	0.66704457	0.25014171	0.49971673
73_37	12/1/18	110	1400	1510	0.15	130	1400	1530	0.13	0.14	2819	0.07450065	0.83751584	0.66524394	0.24946648	0.56119765
73_38	5/14/19	71	740	811	0.13	180	2700	2880	0.12	0.125	2983	0.06405398	0.82892077	0.65540048	0.24577518	0.50859489
73_39	6/4/19	59	810	869	0.12	130	1800	1930	0.12	0.12	3004	0.06282671	0.82782657	0.65417933	0.24531725	0.48916251
73_40	8/10/19	43	720	763	0.13	160	2400	2560	0.13	0.13	3071	0.05906615	0.8243452	0.65033897	0.24387712	0.53305535
73_41	10/29/19	44	750	794	0.11	170	2500	2670	0.11	0.11	3151	0.0548696	0.82020752	0.64585967	0.24219738	0.45417503
73_42	11/19/19	65	830	895	0.18	150	2200	2350	0.2	0.19	3172	0.05381831	0.81912482	0.64470216	0.24176331	0.78589262
73_43	12/10/19	23	400	423	0.11	170	2500	2670	0.11	0.11	3193	0.05278716	0.81804355	0.64355202	0.24133201	0.45580361
73_44	8/16/20	35	860	895	0.16	78	1600	1678	0.15	0.155	3443	0.04192827	0.80528043	0.63038494	0.23639435	0.65568402
73_45	10/24/20	34	820	854	0.17	97	1800	1897	0.16	0.165	3512	0.03934605	0.80179301	0.62690704	0.23509014	0.70185844
73_46	11/14/20	75	1600	1675	0.15	71	1500	1571	0.16	0.155	3533	0.03859218	0.80073462	0.62586083	0.23469781	0.66042372
73_47	12/14/20	31	680	711	0.15	45	1300	1345	0.16	0.155	3563	0.03754022	0.79922506	0.62437588	0.23414095	0.6619944
73_48	5/19/21	18	410	428	0.14	65	2000	2065	0.17	0.155	3719	0.03251498	0.79142109	0.61682786	0.23131045	0.67009511
73_49	6/5/21	18	550	568	0.14	40	1200	1240	0.14	0.14	3736	0.03200973	0.79057528	0.61602206	0.23100827	0.60603891
73_50	8/31/21	43	870	913	0.13	39	1500	1539	0.14	0.135	3823	0.02954436	0.78626083	0.61194657	0.22947996	0.58828665
73_51	10/23/21	39	910	949	0.15	52	1300	1352	0.16	0.155	3876	0.0281365	0.78364403	0.60950195	0.22856323	0.67814932
73_52	11/20/21	29	770	799	0.12	50	1400	1450	0.16	0.14	3904	0.02742002	0.78226509	0.60822165	0.22808312	0.61381131
73_53	12/26/21	29	930	959	0.13	32	1300	1332	0.13	0.13	3940	0.02652557	0.78049574	0.60658662	0.22746998	0.57150398
73_54	5/17/22	59	2200	2259	0.12	55	2200	2255	0.14	0.13	4082	0.02327301	0.77355555	0.60025302	0.22509488	0.57753423
73_55	6/10/22	19	630	649	0.13	54	2100	2154	0.14	0.135	4106	0.0227641	0.77238867	0.59919995	0.22469998	0.60080111
73_56	8/8/22	24	1000	1024	0.13	51	1600	1651	0.14	0.135	4165	0.02155984	0.76952757	0.59663148	0.2237368	0.60338754
73_57	10/17/22	30	1400	1430	0.13	54	1900	1954	0.13	0.13	4235	0.02021341	0.76614679	0.59362033	0.22260762	0.58398719
73_58	11/7/22	30	1000	1030	0.13	23	1200	1223	0.14	0.135	4256	0.01982612	0.76513545	0.59272439	0.22227165	0.60736491
73_59	12/20/22				0.14				0.14	0.14	4299	0.0190561	0.76306879	0.59090021	0.22158758	0.63180437
73_60	5/29/23	9.5	300	309.5	0.12	31	1400	1431	0.13	0.125	4459	0.01644449	0.75542778	0.58422904	0.21908589	0.57055249
73_61	6/22/23	15	570	585	0.13	47	2100	2147	0.13	0.13	4483	0.0160849	0.75428824	0.58324346	0.2187163	0.59437729
73_62	8/15/23	14	470	484	0.12	45	2500	2545	0.13	0.125	4537	0.01530431	0.75173057	0.58103958	0.21788984	0.57368438
73_63	10/24/23	16	880	896	0.12	19	1400	1419	0.14	0.13	4607	0.01434855	0.74842798	0.57821008	0.21682878	0.59955141
73_64	11/10/23	7.3	430	430	0.13	30	1600	1630	0.14	0.135	4624	0.01412559	0.74762811	0.57752745	0.21657279	0.623347
73_65	12/5/23	15	1000	1015	0.13	40	1500	1540	0.13	0.13	4649	0.01380398	0.74645339	0.57652672	0.21619752	0.601302
73_66	5/20/24	20	1100	1120	0.12	30	1900	1930	0.12	0.12	4816	0.0118356	0.73865346	0.56993411	0.21372529	0.56146841
73_67	6/5/24	7.4	240	240	0.13	21	1400	1421	0.13	0.13	4832	0.01166242	0.73791045	0.56931058	0.21349147	0.60892363
73_68	8/22/24	13	960	973	0.13	17	1300	1317	0.11	0.12	4910	0.01085381	0.73429898	0.56629014	0.2123588	0.56508136

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
74_1	11/23/11	6300	8000	14300	0.8	3900	5100	9000	0.87	0.835	254	0.79136781	0.98415035	1.00098468	0.83582221	0.99901629
74_2	1/7/12	5400	7200	12600	1.25	4300	5500	9800	1.26	1.255	299	0.75923209	0.98136865	0.98884073	0.82568201	1.5199556
74_3	2/28/12	9700	13000	22700	1.3	1600	2300	3900	1.25	1.275	351	0.72371926	0.97816403	0.97532048	0.8143926	1.56558397
74_4	5/6/12	21	1600	2300	0.77	23	2400	3500	1.03	0.9	419	0.67977367	0.97398916	0.95842932	0.80028848	1.12459447
74_5	7/18/12	26	4400	6800	1.11	21	2000	3100	0.71	0.91	492	0.6355623	0.96952715	0.94123522	0.78593141	1.15786185
74_6	10/2/12	20	2000	3400	0.9	20	2200	3500	0.83	0.865	568	0.59258637	0.96490348	0.9243021	0.77179225	1.12076793
74_7	10/29/12	34	5500	9300	0.77	21	2100	3700	0.8	0.785	595	0.57802865	0.96326618	0.91851166	0.76695723	1.02352513
74_8	12/21/12	16	950	1700	0.66	39	6000	10000	1.07	0.865	648	0.55048419	0.96006028	0.90747288	0.75773986	1.14155273
74_9	5/8/13	2000	3800	5800	0.764	3900	7800	11700	0.9	0.832	786	0.48476707	0.95176283	0.8806387	0.73533331	1.13145969
74_10	6/20/13	1800	3700	5500	0.728	910	2000	2910	0.69	0.709	829	0.46593941	0.94919208	0.87280244	0.72879003	0.97284536
74_11	8/21/13	5100	11000	16100	0.596	2100	4500	6600	0.63	0.613	891	0.44007244	0.94549763	0.86191174	0.7196963	0.85174816
74_12	10/8/13	6000	14000	20000	0.566	2200	4800	7000	0.564	0.565	939	0.42103683	0.94264729	0.85379636	0.71291996	0.79251533
74_13	12/6/13	1900	4500	6400	0.718	2800	6600	9400	0.706	0.712	998	0.39876319	0.93915551	0.84418049	0.70489071	1.01008566
74_14	2/6/14	2900	7200	10100	0.592	1700	4300	6000	0.604	0.598	1060	0.37662556	0.93550012	0.83448157	0.69679211	0.85821867
74_15	5/15/15	2700	10000	12700	0.51	1700	6000	7700	0.46	0.485	1523	0.2458501	0.90864873	0.77315588	0.64558516	0.75125642
74_16	6/10/15	5700	20000	25700	0.48	1600	5700	7300	0.48	0.48	1549	0.24003146	0.90716394	0.77020492	0.64312111	0.7463602
74_17	8/12/15	4200	16000	20200	0.41	1100	4300	5400	0.42	0.415	1612	0.22649719	0.90357623	0.76323817	0.63730387	0.65118073
74_18	10/9/15	3300	14000	17300	0.42	1300	5500	6800	0.41	0.415	1670	0.21471277	0.90028581	0.75704445	0.63213212	0.65650833
74_19	12/10/15	2200	9500	11700	0.36	1200	5600	6800	0.3	0.33	1732	0.20279283	0.89678171	0.75064471	0.62678834	0.52649352
74_20	1/16/16	1400	6200	7600	0.41	1100	4900	6000	0.32	0.365	1769	0.19599701	0.89469706	0.74692947	0.62368611	0.58523028
74_21	5/1/16	810	4100	4910	0.4	710	3600	4310	0.37	0.385	1875	0.17776261	0.8887516	0.73669101	0.61513699	0.62587685
74_22	6/7/16	690	3500	4190	0.45	550	2800	3350	0.4	0.425	1912	0.17180559	0.88668561	0.73325139	0.61226491	0.69414398
74_23	8/7/16	1500	7700	9200	0.36	960	5200	6160	0.3	0.33	1973	0.16241723	0.88329001	0.72772351	0.60764913	0.54307656
74_24	10/6/16	1900	11000	12900	0.37	680	4000	4680	0.3	0.335	2033	0.15368341	0.87996275	0.72245194	0.60324737	0.55532775
74_25	12/2/16	870	5300	6170	0.34	1200	6600	7800	0.21	0.275	2090	0.14582169	0.87681347	0.71758849	0.59918639	0.45895569
74_26	1/27/17	500	3100	3600	0.33	650	3800	4450	0.3	0.315	2146	0.13848966	0.87373042	0.71294083	0.5953056	0.52914
74_27	5/3/17	510	3400	3910	0.26	610	4100	4710	0.23	0.245	2242	0.12676787	0.86847038	0.70525673	0.58888937	0.41603739
74_28	6/16/17	1500	11000	12500	0.25	590	4200	4790	0.22	0.235	2286	0.12173219	0.86607012	0.70184791	0.586043	0.40099446
74_29	8/11/17	760	5800	6560	0.25	790	5900	6690	0.23	0.24	2342	0.11561141	0.86302484	0.69760655	0.58250147	0.41201613
74_30	10/24/17	290	2300	2590	0.26	210	1800	2010	0.23	0.245	2416	0.1079927	0.85901714	0.69216076	0.57795423	0.423909
74_31	12/16/17	490	3900	4390	0.26	530	4200	4730	0.23	0.245	2469	0.10284658	0.85615821	0.6883659	0.57478553	0.42624594
74_32	1/29/18	550	4700	5250	0.19	350	3200	3550	0.18	0.185	2513	0.09876115	0.85379198	0.6852792	0.57220813	0.32330893
74_33	5/2/18	910	8500	9410	0.23	460	4400	4860	0.2	0.215	2606	0.09065217	0.84881213	0.67893542	0.56691108	0.37924819
74_34	6/4/18	290	3000	3290	0.21	180	1800	1980	0.2	0.205	2639	0.08793776	0.84705208	0.67674053	0.56507835	0.36278155
74_35	8/5/18	480	5200	5680	0.22	320	3300	3620	0.2	0.21	2701	0.08305583	0.84375518	0.67269224	0.56169802	0.37386637
74_36	10/4/18	350	4000	4350	0.2	330	3900	4230	0.19	0.195	2761	0.07858959	0.84057685	0.66886435	0.55850173	0.34914843
74_37	11/2/18	930	11000	11930	0.22	370	4400	4770	0.24	0.23	2790	0.07651781	0.83904495	0.66704457	0.55698221	0.41293958
74_38	12/1/18	250	3000	3250	0.21	180	2100	2280	0.2	0.205	2819	0.07450065	0.83751584	0.66524394	0.55547869	0.36905106
74_39	5/13/19	290	3900	4190	0.2	230	3100	3330	0.2	0.2	2982	0.06411302	0.82897291	0.65545884	0.54730813	0.36542487
74_40	6/4/19	280	3900	4180	0.19	170	2200	2370	0.18	0.185	3004	0.06282671	0.82782657	0.65417933	0.54623974	0.33867913
74_41	8/17/19	410	5800	6210	0.19	160	2300	2460	0.17	0.18	3078	0.05868648	0.82398232	0.64994251	0.542702	0.33167374
74_42	10/29/19	140	2200	2340	0.17	190	2900	3090	0.16	0.165	3151	0.0548696	0.82020752	0.64585967	0.53929282	0.30595623
74_43	11/19/19	380	5700	6080	0.31	130	2100	2230	0.29	0.3	3172	0.05381831	0.81912482	0.64470216	0.5383263	0.55728282
74_44	12/10/19	360	5900	6260	0.18	190	2700	2890	0.17	0.175	3193	0.05278716	0.81804355	0.64355202	0.53736594	0.32566262
74_45	8/30/20	190	4200	4390	0.26	160	3600	3760	0.25	0.255	3457	0.04139099	0.80457161	0.62967418	0.52577794	0.48499562
74_46	10/24/20	200	4100	4300	0.24	190	3900	4090	0.24	0.24	3512	0.03934605	0.80179301	0.62690704	0.52346738	0.45848129
74_47	11/25/20	220	4600	4820	0.26	87	1800	1887	0.25	0.255	3544	0.03820308	0.80018078	0.62531504	0.52213806	0.48837658
74_48	12/14/20	160	3200	3360	0.28	110	2100	2210	0.26	0.27	3563	0.03754022	0.79922506	0.62437588	0.52135386	0.51788242
74_49	5/19/21	190	4400	4590	0.26	130	3000	3130	0.25	0.255	3719	0.03251498	0.79142109	0.61682786	0.51505126	0.49509635
74_50	6/5/21	88	2200	2288	0.22	120	3200	3320	0.21	0.215	3736	0.03200973	0.79057528	0.61602206	0.51437842	0.41798021
74_51	8/31/21	370	9500	9870	0.25	92	2600	2692	0.22	0.235	3823	0.02954436	0.78626083	0.61194657	0.51097539	0.45990473
74_52	10/23/21	110	3100	3210	0.24	110	3600	3710	0.24	0.24	3876	0.0281365	0.78364403	0.60950195	0.50893413	0.4715738
74_53	11/20/21	170	4700	4870	0.24	70	1800	1870	0.24	0.24	3904	0.02742002	0.78226509	0.60822165	0.50786508	0.47256645
74_54	12/26/21	83	2400	2483	0.24	49	1300	1349	0.24	0.24	3940	0.02652557	0.78049574	0.60658662	0.50649983	0.47384024
74_55	5/17/22	67	2000	2067	0.21	37	1200	1237	0.22	0.215	4082	0.02327301	0.77355555	0.60025302	0.50121127	0.42896082
74_56	6/10/22	150	4200	4350	0.23	50	1400	1450	0.22	0.225	4106	0.0227641	0.77238867	0.59919995	0.50033196	0.44970143
74_57	8/10/22	150	4900	5050	0.23	92	2900	2992	0.23	0.23	4167	0.02152015	0.76943077	0.59654491	0.498115	0.46174076
74_58	10/17/22	77	3200	3277	0.23	20	810	830	0.22	0.225	4235	0.02021341	0.76614679	0.59362033	0.49567298	0.45392832
74_59	11/7/22	37	1700	1737	0.23	36	2200	2236	0.21	0.22	4256	0.01982612	0.76513545	0.59272439	0.49492487	0.44451191
74_60	12/20/22				0.23				0.22	0.225	4299	0.0190561	0.76306879	0.59090021	0.49340167	0.45601791
74_61	5/24/23	140	6700	6840	0.22	85	3500	3585	0.21	0.215	4454	0.01652041	0.75566539	0.58443485	0.4880031	0.44057097
74_62	6/22/23	180	7700	7880	0.22	45	2900	2945	0.22	0.22	4483	0.0160849	0.75428824	0.58324346	0.48700829	0.45173769
74_63	8/15/23	200	10000	10200	0.22	33	2400	2433	0.22	0.22	4537	0.01530431	0.75173057	0.58103958	0.48516805	0.45345113
74_64	10/19/23	96	5600	5696	0.22	55	2500	2555	0.21	0.215	4602	0.01441479	0.7486634	0.57841119	0.48297334	0.44515915
74_65	11/10/23	100	5200	5300	0.23	45	2700	2745	0.22	0.225	4624	0.01412559	0.74762811	0.57752745	0.48223542	0.4665771
74_66	12/5/23	110	6600	6710	0.21	73	4700	4773	0.22	0.215	4649	0.01380398	0.74645339	0.57652672	0.48139981	0.44661422
74_67	5/20/24	55	3900	3955	0.21	52	3200	3252	0.2	0.205	4816	0.0118356	0.73865346	0.56993411	0.47589499	0.4307673
74_68	6/5/24	53	4200	4253	0.21	53	3900	3953	0.21	0.21	4832	0.01166242	0.73791045	0.56931058	0.47537433	0.44175713
74_69	8/22/24	79	5200	5279	0.2	9.4	560	560	0.1	0.15	4910	0.01085381	0.73429898	0.56629014	0.47285226	0.31722382

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
75_1	11/22/11	3700	4500	8200	0.99	3000	3800	6800	0.98	0.985	253	0.79209718	0.98421225	1.00125936	0.98624047	0.99874222
75_2	1/17/12	1400	1900	3300	1.63	1900	2400	4300	1.54	1.585	309	0.75226993	0.98075156	0.9861987	0.97140572	1.63165603
75_3	2/28/12	1700	2300	4000	1.5	1600	2400	4000	1.33	1.415	351	0.72371926	0.97816403	0.97532048	0.96069067	1.47289865
75_4	5/1/12	44	6900	9600	1.29	16	990	1500	1.37	1.33	414	0.68291203	0.97429553	0.9596419	0.94524727	1.40703924
75_5	5/9/12	35	4300	6200	1.24	19	1700	2500	1.55	1.395	422	0.67789758	0.97380539	0.95770396	0.9433384	1.47879064
75_6	6/7/12	30	4100	6600	1.33	21	1500	2400	1.47	1.4	451	0.66002687	0.97203069	0.95077607	0.93651443	1.49490488
75_7	7/18/12	6	120	210	0.76					0.76	492	0.6355623	0.96952715	0.94123522	0.92711669	0.81974578
75_8	8/7/12	7.3	180	300	0.72					0.72	512	0.62395954	0.96830825	0.93668612	0.92263582	0.78037291
75_9	8/29/12	7.4	140	250	0.7	5.8	94	160	0.33	0.515	534	0.611441	0.96696923	0.93175963	0.91778323	0.56113468
75_10	10/3/12	7.7	180	310	0.66	11	300	530	0.66	0.66	569	0.59204072	0.96484279	0.92408558	0.91022429	0.72509601
75_11	10/29/12	8.3	160	280	0.64	9.6	390	640	0.76	0.7	595	0.57802865	0.96326618	0.91851166	0.90473398	0.77370809
75_12	12/21/12	15	720	1300	0.97	21	2300	4100	1.31	1.14	648	0.55048419	0.96006028	0.90747288	0.89386079	1.27536638
75_13	3/1/13	6.3	150	290	0.6					0.6	718	0.51610598	0.95584243	0.89352937	0.88012643	0.68172024
75_14	4/25/13	2600	5200	7800	1.112	1500	2900	4400	0.964	1.038	773	0.49060753	0.95254141	0.88305508	0.86980925	1.19336509
75_15	6/18/13	1900	3900	5800	1.092	2300	4700	7000	1.006	1.049	827	0.46679868	0.94931149	0.87316167	0.86006425	1.21967632
75_16	6/24/13	4300	8700	13000	0.818	3000	5900	8900	1.002	0.91	833	0.46422562	0.94895329	0.87208547	0.85900419	1.05936619
75_17	7/9/13	5700	12000	17700	0.906	1600	3400	5000	1.028	0.967	848	0.45785486	0.94805838	0.8694147	0.85637348	1.12918023
75_18	8/9/13	2700	6000	8700	0.936	1900	4000	5900	1.226	1.081	879	0.44496432	0.94621156	0.86398304	0.8510233	1.2702355
75_19	9/11/13	2800	6200	9000	0.924	2300	5100	7400	1.14	1.032	912	0.4316407	0.94424954	0.85832815	0.84545323	1.22064706
75_20	10/8/13	2700	6300	9000	0.904	4300	9700	14000	1.022	0.963	939	0.42103683	0.94264729	0.85379636	0.84098941	1.14507981
75_21	12/6/13	2500	5900	8400	1.012	6600	16000	22600	1.236	1.124	998	0.39876319	0.93915551	0.84418049	0.83151779	1.35174499
75_22	1/8/14	4000	10000	14000	0.958	2100	5300	7400	1.054	1.006	1031	0.38682297	0.93720813	0.8389678	0.82638329	1.21735279
75_23	2/7/14	1800	4500	6300	0.936	1900	4800	6700	1.034	0.985	1061	0.37627876	0.93544128	0.83432843	0.8218135	1.19856878
75_24	4/25/15	300	1100	1400	0.71	800	2800	3600	0.84	0.775	1503	0.25042177	0.90979252	0.77545696	0.76382511	1.01463017
75_25	5/15/15	2200	8000	10200	0.7	1200	4300	5500	0.8	0.75	1523	0.2458501	0.90864873	0.77315588	0.76155854	0.98482251
75_26	6/10/15	980	3700	4680	0.61	1300	4800	6100	0.75	0.68	1549	0.24003146	0.90716394	0.77020492	0.75865185	0.89632682
75_27	7/3/15	1200	4600	5800	0.68	750	3000	3750	0.73	0.705	1572	0.23499911	0.90585249	0.76763181	0.75611733	0.93239498
75_28	8/12/15	2600	10000	12600	0.7	1300	5100	6400	0.71	0.705	1612	0.22649719	0.90357623	0.76323817	0.75178959	0.93776238
75_29	9/3/15	2300	9000	11300	0.61	760	3000	3760	0.65	0.63	1634	0.22195296	0.90232673	0.7608646	0.74945163	0.84061462
75_30	10/9/15	2900	12000	14900	0.54	900	3800	4700	0.73	0.635	1670	0.21471277	0.90028581	0.75704445	0.74568878	0.85156169
75_31	12/10/15	2200	9000	11200	0.5	850	3800	4650	0.62	0.56	1732	0.20279283	0.89678171	0.75064471	0.73938504	0.75738616
75_32	1/14/16	1100	4400	5500	0.68	840	3700	4540	0.68	0.68	1767	0.19635846	0.89480962	0.74712837	0.73592144	0.92401167
75_33	2/3/16	1500	6900	8400	0.48	940	4200	5140	0.49	0.485	1787	0.19277376	0.89368466	0.74514921	0.73397197	0.66078818
75_34	4/26/16	1600	8100	9700	0.54	1300	6300	7600	0.64	0.59	1870	0.1785833	0.88903115	0.73716099	0.72610357	0.81255625
75_35	5/22/16	2100	10000	12100	0.65	1100	5700	6800	0.71	0.68	1896	0.1743567	0.88757842	0.73473058	0.72370962	0.93960337
75_36	6/10/16	3200	16000	19200	0.66	2800	14000	16800	0.66	0.66	1915	0.17133142	0.88651831	0.73297542	0.72198079	0.91415175
75_37	7/14/16	1500	8500	10000	0.49	680	3600	4280	0.57	0.53	1949	0.16604818	0.88462443	0.72987765	0.71892948	0.73720721
75_38	8/13/16	5600	31000	36600	0.58	1700	9300	11000	0.74	0.66	1979	0.16152196	0.88295671	0.7271891	0.71628126	0.92142575
75_39	9/4/16	1000	5400	6400	0.48	1100	5800	6900	0.53	0.505	2001	0.15828133	0.88173572	0.72524352	0.71436486	0.70692167
75_40	10/16/16	1300	7200	8500	0.53	700	3900	4600	0.6	0.565	2043	0.15227413	0.87940943	0.72158872	0.71076489	0.79491828
75_41	12/2/16	990	5900	6890	0.53	330	1900	2230	0.54	0.535	2090	0.14582169	0.87681347	0.71758849	0.70682466	0.75690624
75_42	1/10/17	570	3200	3770	0.56	470	2900	3370	0.62	0.59	2129	0.14067561	0.8746652	0.71433843	0.70362336	0.83851679
75_43	2/14/17	790	5100	5890	0.43	620	4000	4620	0.49	0.46	2164	0.13621214	0.87274174	0.7114733	0.70080128	0.65639149
75_44	4/25/17	730	4700	5430	0.48	560	3800	4360	0.47	0.475	2234	0.12770558	0.8689075	0.70588396	0.6952957	0.68316257
75_45	5/16/17	770	5500	6270	0.45	250	1800	2050	0.42	0.435	2255	0.12525875	0.86776052	0.70424241	0.69367878	0.62709141
75_46	6/16/17	1100	6800	7900	0.45	680	4900	5580	0.45	0.45	2286	0.12173219	0.86607012	0.70184791	0.69132019	0.65092848
75_47	7/14/17	780	5800	6580	0.37	590	4400	4990	0.47	0.42	2314	0.11863233	0.86454614	0.69971391	0.6892182	0.60938611
75_48	8/21/17	570	4000	4570	0.35	420	3000	3420	0.41	0.38	2352	0.11455125	0.86248217	0.69686027	0.68640736	0.55360712
75_49	9/12/17	720	5200	5920	0.36	400	3100	3500	0.43	0.395	2374	0.112253	0.86128949	0.69522998	0.68480153	0.57680946
75_50	10/26/17	500	4100	4600	0.34	200	1800	2000	0.41	0.375	2418	0.10779391	0.85890909	0.69201599	0.68163575	0.5501472
75_51	12/16/17	530	4400	4930	0.36	460	3500	3960	0.38	0.37	2469	0.10284658	0.85615821	0.6883659	0.67804041	0.54569019
75_52	1/27/18	630	5600	6230	0.33	480	4200	4680	0.31	0.32	2511	0.09894328	0.85389939	0.68541828	0.67513701	0.47397787
75_53	2/17/18	240	2000	2240	0.37	210	2100	2310	0.39	0.38	2532	0.09704754	0.85277222	0.6839636	0.67370415	0.56404581
75_54	4/27/18	460	4800	5260	0.32	600	5800	6400	0.4	0.36	2601	0.09107069	0.84907912	0.67927048	0.66908142	0.53805111
75_55	5/17/18	470	4600	5070	0.31	270	2300	2570	0.36	0.335	2621	0.08940811	0.84801165	0.67793421	0.6677652	0.50167335
75_56	6/4/18	580	5600	6180	0.39	340	3000	3340	0.38	0.385	2639	0.08793776	0.84705208	0.67674053	0.66658943	0.57756692
75_57	7/4/18	1600	16000	17600	0.35	380	3800	4180	0.42	0.385	2669	0.08554071	0.8454552	0.6747696	0.66464806	0.57925393
75_58	8/13/18	520	5700	6220	0.36	320	3100	3420	0.33	0.345	2709	0.08244597	0.84333071	0.67217685	0.6620942	0.52107389
75_59	9/3/18	1800	19000	20800	0.35	290	2900	3190	0.46	0.405	2730	0.08086632	0.84221749	0.67083134	0.66076887	0.61292234
75_60	10/4/18	670	7100	7770	0.35	210	2100	2310	0.34	0.345	2761	0.07858959	0.84057685	0.66886435	0.65883138	0.52365447
75_61	12/12/18	480	5600	6080	0.33	150	1700	1850	0.33	0.33	2830	0.07374951	0.83693656	0.66456586	0.65459737	0.50412668
75_62	1/25/19	1000	13000	14000	0.39	440	4700	5140	0.45	0.42	2874	0.07081992	0.83462346	0.66187997	0.65195177	0.64421943
75_63	2/15/19	380	4600	4980	0.42	380	4400	4780	0.52	0.47	2895	0.06946301	0.83352174	0.66061267	0.65070348	0.7222952
75_64	4/27/19	400	5200	5600	0.37	270	3400	3670	0.43	0.4	2966	0.06506502	0.82980761	0.6563953	0.64654937	0.61866892
75_65	5/13/19	1400	17000	18400	0.34	200	2600	2800	0.32	0.33	2982	0.06411302	0.82897291	0.65545884	0.64562696	0.51113107
75_66	6/4/19	840	11000	11840	0.33	150	2300	2450	0.33	0.33	3004	0.06282671	0.82782657	0.65417933	0.64436664	0.5121308
75_67	7/3/19	910	13000	13910	0.37	170	2300	2470	0.52	0.445	3033	0.06117048	0.82631791	0.65250682	0.64271922	0.69237077
75_68	8/10/19	570	8000	8570	0.31	230	3100	3330	0.31	0.31	3071	0.05906615	0.8243452	0.65033897	0.64058389	0.48393349
75_69	9/2/19	680	10000	10680	0.39	280	3900	4180	0.5	0.445	3094	0.0578278	0.82315349	0.64903962	0.63930403	0.69606945
75_70	10/29/19	230	3700	3930	0.27	170	2600	2770	0.28	0.275	3151	0.0548696	0.82020752	0.64585967	0.63617177	0.43227319
75_71	12/10/19	260	4100	4360	0.24	220	3400	3620	0.28	0.26	3193	0.05278716	0.81804355	0.64355202	0.63389874	0.41016014
75_72	1/25/20	370	6300	6670	0.4	200	3300	3500	0.46	0.43	3239	0.05059695	0.81568005	0.64105784	0.63144197	0.68098102
75_73	2/8/20	540	9100	9640	0.43	200	3500	3700	0.51	0.47	3253	0.04994858	0.81496208	0.64030546	0.63070088	0.74520271
75_74	7/6/20	330	6100	6430	0.34	150	2800	2950	0.43	0.385	3402	0.04354221	0.80735985	0.63248181	0.62299458	0.6179829
75_75	8/4/20	1000	20000	21000	0.33	180	3500	3680	0.38	0.355	3431	0.04239435	0.80588849	0.63099627	0.62153133	0.57116992
75_76	9/8/20	280	6300	6580	0.34	160	3600	3760	0.46	0.4	3466	0.04104923	0.80411627	0.62921865	0.61978037	0.64538992
75_77	10/21/20	440	9800	10240	0.43	170	3300	3470	0.44	0.435	3509	0.03945494	0.80194432	0.62705696	0.6176511	0.7042811
75_78	11/25/20	150	3100	3250	0.46	130	3000	3130	0.4	0.43	3544	0.03820308	0.80018078	0.62531504	0.61593531	0.69812526
75_79	12/18/20	180	3700	3880	0.36	150	3500	3650	0.39	0.375	3567	0.03740214	0.799024	0.62417873	0.61481605	0.60993853
75_80	1/28/21	200	4800	5000	0.4	160	3700	3860	0.35	0.375	3608	0.03601579	0.79696605	0.62216922	0.61283668	0.61190854
75_81	2/15/21	160	3600	3760	0.34	86	1900	1986	0.39	0.365	3626	0.03542349	0.79606423	0.62129337	0.61197397	0.59643059
75_82	4/22/21	110	2800	2910	0.36	110	3100	3210	0.37	0.365	3692	0.03333387	0.7927663	0.61811421	0.60884249	0.59949824
75_83	5/19/21	940	23000	23940	0.4	130	3400	3530	0.39	0.395	3719	0.03251498	0.79142109	0.61682786	0.60757544	0.65012503
75_84	6/5/21	180	4700	4880	0.35	96	2100	2196	0.28	0.315	3736	0.03200973	0.79057528	0.61602206	0.60678173	0.51913231
75_85	7/18/21	210	5100	5310	0.34	160	4000	4160	0.38	0.36	3779	0.03076652	0.7884399	0.61399778	0.60478781	0.59525009
75_86	8/31/21	180	4200	4380	0.39	190	5100	5290	0.38	0.385	3823	0.02954436	0.78626083	0.61194657	0.60276737	0.6387207
75_87	9/20/21	340	9500	9840	0.33	86	2800	2886	0.4	0.365	3843	0.029005	0.78527233	0.61102077	0.60185546	0.60645791
75_88	10/23/21	450	13000	13450	0.34	240	7600	7840	0.39	0.365	3876	0.0281365	0.78364403	0.60950195	0.60035942	0.60796914
75_89	12/26/21	94	3000	3094	0.36	86	2600	2686	0.41	0.385	3940	0.02652557	0.78049574	0.60658662	0.59748782	0.6443646
75_90	1/21/22	160	5700	5860	0.33	130	3500	3630	0.38	0.355	3966	0.02589778	0.77922036	0.60541334	0.59633214	0.59530583
75_91	2/15/22	160	5000	5160	0.35	87	2600	2687	0.39	0.37	3991	0.02530815	0.777996	0.60429106	0.5952267	0.6216119
75_92	4/28/22	210	7400	7610	0.33	66	2000	2066	0.28	0.305	4063	0.02368395	0.77448058	0.60109017	0.59207381	0.51513847
75_93	5/19/22	190	6200	6390	0.32	38	1500	1538	0.27	0.295	4084	0.02323017	0.77345824	0.60016508	0.5911626	0.49901668
75_94	6/10/22	140	4900	5040	0.34	110	3900	4010	0.29	0.315	4106	0.0227641	0.77238867	0.59919995	0.59021195	0.53370657
75_95	7/9/22	160	6200	6360	0.33	56	1800	1856	0.28	0.305	4135	0.022164	0.77098104	0.59793392	0.58896491	0.51785768
75_96	8/10/22	100	4000	4100	0.22	110	4500	4610	0.22	0.22	4167	0.02152015	0.76943077	0.59654491	0.58759674	0.37440644
75_97	9/15/22	450	17000	17450	0.33	110	4600	4710	0.28	0.305	4203	0.02081816	0.76769044	0.59499209	0.58606721	0.52041813
75_98	10/17/22	280	11000	11280	0.25	140	5200	5340	0.37	0.31	4235	0.02021341	0.76614679	0.59362033	0.58471602	0.53017189
75_99	12/20/22				0.24				0.38	0.31	4299	0.0190561	0.76306879	0.59090021	0.58203671	0.53261246
75_100	1/19/23	86	4200	4286	0.3	240	9000	9240	0.36	0.33	4329	0.01853666	0.76163023	0.5896356	0.58079106	0.56819056
75_101	2/3/23	75	2800	2875	0.3	130	5800	5930	0.36	0.33	4344	0.01828228	0.76091197	0.58900573	0.58017065	0.56879816
75_102	4/25/23	67	3100	3167	0.29	69	3400	3469	0.26	0.275	4425	0.01696772	0.75704506	0.58563185	0.57684737	0.47672922
75_103	5/18/23	64	3000	3064	0.3	96	3900	3996	0.3	0.3	4448	0.01661198	0.75595064	0.58468205	0.57591181	0.52091308
75_104	6/30/23	69	2400	2469	0.25	75	5000	5075	0.22	0.235	4491	0.0159668	0.75390878	0.58291577	0.57417203	0.409285
75_105	7/14/23	89	3600	3689	0.24	140	6800	6940	0.36	0.3	4505	0.01576219	0.75324518	0.58234332	0.57360817	0.52300511
75_106	8/26/23	39	2100	2139	0.28	65	3600	3665	0.29	0.285	4548	0.01515001	0.75121063	0.58059293	0.57188403	0.49835278
75_107	9/12/23	49	2300	2349	0.24	150	7500	7650	0.36	0.3	4565	0.0149146	0.75040779	0.57990413	0.57120557	0.52520496
75_108	10/20/23	70	4200	4270	0.21	190	8800	8990	0.32	0.265	4603	0.01440152	0.74861631	0.57837095	0.56969539	0.46516087
75_109	12/5/23	83	4300	4383	0.27	140	8000	8140	0.38	0.325	4649	0.01380398	0.74645339	0.57652672	0.56787882	0.5723052
75_110	1/26/24	42	2900	2942	0.23	110	6600	6710	0.34	0.285	4701	0.0131583	0.74401588	0.57445699	0.56584013	0.50367583
75_111	2/13/24	51	2600	2651	0.26	120	6700	6820	0.37	0.315	4719	0.01294191	0.74317398	0.57374418	0.56513801	0.55738597
75_112	4/24/24	55	3100	3155	0.27	100	6700	6800	0.37	0.32	4790	0.0121225	0.73986244	0.5709503	0.56238604	0.56900417
75_113	5/20/24	60	3400	3460	0.26	120	7300	7420	0.31	0.285	4816	0.0118356	0.73865346	0.56993411	0.5613851	0.50767289
75_114	6/5/24	50	3900	3950	0.23	110	6800	6910	0.23	0.23	4832	0.01166242	0.73791045	0.56931058	0.56077092	0.41014965
75_115	7/4/24	55	4100	4155	0.23	140	8600	8740	0.27	0.25	4861	0.01135498	0.73656566	0.56818389	0.55966113	0.44669888
75_116	8/22/24	45	3100	3145	0.25	83	5200	5283	0.27	0.26	4910	0.01085381	0.73429898	0.56629014	0.55779579	0.46612041
75_117	9/26/24	53	3300	3353	0.26	170	12000	12170	0.25	0.255	4945	0.01050943	0.7326842	0.56494497	0.5564708	0.45824507

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
76_1	11/22/11	16	34	50	0.42	680	800	1480	0.42	0.42	253	0.79209718	0.98421225	1.00125936	0.42052893	0.99874222
76_2	1/17/12	240	310	550	0.78	680	940	1620	0.72	0.75	309	0.75226993	0.98075156	0.9861987	0.41420345	1.81070436
76_3	2/28/12	260	350	610	0.52					0.52	351	0.72371926	0.97816403	0.97532048	0.4096346	1.26942401
76_4	5/1/12	14	900	1300	1.11	9.3	260	370	0.86	0.985	414	0.68291203	0.97429553	0.9596419	0.4030496	2.44386797
76_5	5/9/12	25	3600	5300	1.09	12	650	910	0.54	0.815	422	0.67789758	0.97380539	0.95770396	0.40223566	2.02617538
76_6	6/6/12	16	1500	2300	1.13	15	1000	1500	0.84	0.985	450	0.66063519	0.97209183	0.95101246	0.39942523	2.4660435
76_7	7/9/12	17	1700	2900	0.84	11	600	990	0.6	0.72	483	0.6408537	0.97007616	0.94330456	0.39618791	1.81731944
76_8	8/8/12	18	1800	3000	1.02	13	780	1300	0.64	0.83	513	0.62338499	0.96824735	0.93646043	0.39331338	2.11027653
76_9	8/29/12	24	2600	4200	0.77	21	2700	4300	0.76	0.765	534	0.611441	0.96696923	0.93175963	0.39133904	1.95482667
76_10	10/18/12	18	1800	3000	0.57	12	550	890	1	0.785	584	0.5839159	0.96393289	0.92085686	0.38675988	2.02968311
76_11	11/14/12	20	1800	3200	1.27	18	1000	1800	0.92	1.095	611	0.56957117	0.96229723	0.91513404	0.3843563	2.84891911
76_12	12/20/12	18	1300	2400	0.95	15	950	1800	0.78	0.865	647	0.55099155	0.96012067	0.90767724	0.38122444	2.26900458
76_13	1/10/13	18	1300	2400	0.91	16	1100	2000	0.68	0.795	668	0.5404346	0.95885329	0.90341677	0.37943505	2.09522028
76_14	2/28/13	18	1600	3000	0.88	26	2400	4400	0.71	0.795	717	0.51658165	0.95590256	0.89372365	0.37536393	2.11794456
76_15	4/25/13	2900	5700	8600	0.758	2400	4800	7200	0.694	0.726	773	0.49060753	0.95254141	0.88305508	0.37088313	1.95748993
76_16	6/18/13	1200	2400	3600	0.504	2700	5600	8300	0.862	0.683	827	0.46679868	0.94931149	0.87316167	0.3667279	1.86241623
76_17	6/26/13	740	1500	2240	0.498	2300	4800	7100	0.798	0.648	835	0.46337109	0.94883392	0.87172775	0.36612565	1.76988418
76_18	7/9/13	1800	3700	5500	0.506	3500	7400	10900	0.988	0.747	848	0.45785486	0.94805838	0.8694147	0.36515417	2.04571125
76_19	8/20/13	970	2100	3070	0.464	2200	4800	7000	0.956	0.71	890	0.44047803	0.9455571	0.86208369	0.36207515	1.96091889
76_20	9/11/13	15	27	42	0.256	2600	5600	8200	0.736	0.496	912	0.4316407	0.94424954	0.85832815	0.36049782	1.37587516
76_21	10/8/13	370	850	1220	0.316	2000	4500	6500	0.674	0.495	939	0.42103683	0.94264729	0.85379636	0.35859447	1.38038938
76_22	12/9/13	270	720	990	0.32	1900	4400	6300	0.738	0.529	1001	0.39766266	0.93897831	0.84370179	0.35435475	1.49285425
76_23	1/7/14	4700	11000	15700	0.746	2500	6100	8600	0.702	0.724	1030	0.38717949	0.93726708	0.83912407	0.35243211	2.05429637
76_24	4/25/15	6700	24000	30700	0.87	840	3000	3840	0.96	0.915	1503	0.25042177	0.90979252	0.77545696	0.32569193	2.80940339
76_25	5/10/15	5300	19000	24300	0.73	610	2100	2710	0.63	0.68	1518	0.24698513	0.90893454	0.77372859	0.32496601	2.09252654
76_26	6/6/15	5500	20000	25500	0.96	560	1900	2460	0.48	0.72	1545	0.24091759	0.90739221	0.77065598	0.32367551	2.22445003
76_27	7/12/15	1000	4000	5000	0.57	480	2100	2580	0.45	0.51	1581	0.23305877	0.90533983	0.76663432	0.32198641	1.58391777
76_28	8/3/15	590	2500	3090	0.57	1900	7800	9700	0.46	0.515	1603	0.2283829	0.90408789	0.76421787	0.32097151	1.6045038
76_29	9/6/15	2000	7800	9800	0.54	600	2300	2900	0.41	0.475	1637	0.2213404	0.90215647	0.76054325	0.31942817	1.4870323
76_30	10/9/15	1400	5900	7300	0.52	470	2200	2670	0.41	0.465	1670	0.21471277	0.90028581	0.75704445	0.31795867	1.46245423
76_31	12/9/15	320	1300	1620	0.4	450	2100	2550	0.4	0.4	1731	0.20297974	0.89683812	0.75074619	0.3153134	1.26857914
76_32	1/10/16	2000	9100	11100	0.54	510	2300	2810	0.4	0.47	1763	0.19708336	0.89503478	0.74752681	0.31396126	1.49699998
76_33	2/1/16	320	1300	1620	0.4	400	2000	2400	0.35	0.375	1785	0.19312926	0.89379709	0.74534615	0.31304538	1.19790938
76_34	4/26/16	1300	6500	7800	0.44	410	2200	2610	0.33	0.385	1870	0.1785833	0.88903115	0.73716099	0.30960762	1.24350946
76_35	5/22/16	970	5100	6070	0.57	370	1700	2070	0.4	0.485	1896	0.1743567	0.88757842	0.73473058	0.30858684	1.57168074
76_36	6/19/16	900	4600	5500	0.69	350	1900	2250	0.44	0.565	1924	0.16991678	0.88601659	0.73215009	0.30750304	1.83738022
76_37	7/14/16	4300	23000	27300	0.68	350	1700	2050	0.41	0.545	1949	0.16604818	0.88462443	0.72987765	0.30654861	1.77785832
76_38	8/6/16	2800	16000	18800	0.51	340	2000	2340	0.36	0.435	1972	0.16256692	0.88334557	0.72781273	0.30568135	1.42305051
76_39	9/2/16	2900	16000	18900	0.54	320	2000	2320	0.36	0.45	1999	0.15857323	0.88184665	0.72541949	0.30467619	1.47697792
76_40	10/8/16	2100	12000	14100	0.42	330	1700	2030	0.36	0.39	2035	0.15340051	0.87985206	0.72227895	0.30335716	1.28561331
76_41	12/5/16	1800	11000	12800	0.41	380	2100	2480	0.32	0.365	2093	0.14541924	0.87664803	0.71733629	0.30128124	1.21149262
76_42	1/11/17	4400	27000	31400	0.53	270	1700	1970	0.32	0.425	2130	0.14054608	0.87461018	0.71425591	0.29998748	1.41672579
76_43	2/1/17	350	2400	2750	0.46	1300	8100	9400	0.29	0.375	2151	0.13785323	0.87345567	0.71253194	0.29926341	1.25307666
76_44	4/26/17	1100	7800	8900	0.44	310	2000	2310	0.3	0.37	2235	0.12758799	0.86885285	0.70580543	0.29643828	1.24815189
76_45	5/16/17	1400	9400	10800	0.4	390	2800	3190	0.27	0.335	2255	0.12525875	0.86776052	0.70424241	0.29578181	1.13259161
76_46	6/17/17	1200	8200	9400	0.52	250	2000	2250	0.37	0.445	2287	0.1216201	0.86601565	0.70177123	0.29474391	1.5097852
76_47	7/16/17	920	6500	7420	0.5	280	1900	2180	0.28	0.39	2316	0.11841396	0.86443739	0.69956251	0.29381625	1.3273602
76_48	8/1/17	540	4200	4740	0.42	220	1700	1920	0.35	0.385	2332	0.11668137	0.86356786	0.69835616	0.29330959	1.31260626
76_49	9/1/17	570	4300	4870	0.48	280	1900	2180	0.3	0.39	2363	0.1133963	0.86188563	0.69604315	0.29233812	1.33407164
76_50	10/6/17	800	6400	7200	0.46	230	1900	2130	0.26	0.36	2398	0.10979838	0.85999027	0.69346929	0.2912571	1.23602136
76_51	12/1/17	960	7100	8060	0.38	83	710	793	0.18	0.28	2454	0.10427763	0.85696637	0.68943126	0.28956113	0.96698061
76_52	1/9/18	990	8800	9790	0.34	100	890	990	0.19	0.265	2493	0.10059765	0.85486672	0.68667523	0.2884036	0.91885123
76_53	2/15/18	650	5800	6450	0.37	120	1100	1220	0.19	0.28	2530	0.09722651	0.85287951	0.6841016	0.28732267	0.97451411
76_54	4/27/18	410	3800	4210	0.36	130	1200	1330	0.21	0.285	2601	0.09107069	0.84907912	0.67927048	0.2852936	0.99897088
76_55	5/14/18	680	6800	7480	0.35	170	1500	1670	0.21	0.28	2618	0.08965555	0.84817169	0.67813398	0.28481627	0.9830899
76_56	6/1/18	430	4100	4530	0.37	130	1200	1330	0.2	0.285	2636	0.08818113	0.84721193	0.6769389	0.28431434	1.00241164
76_57	7/18/18	1200	12000	13200	0.33	93	910	1003	0.22	0.275	2683	0.08444456	0.84471102	0.67385762	0.2830202	0.97166209
76_58	8/6/18	430	4800	5230	0.47	79	790	869	0.3	0.385	2702	0.08297935	0.84370211	0.67262773	0.28250365	1.36281426
76_59	9/1/18	340	3600	3940	0.4	73	890	963	0.24	0.32	2728	0.08101545	0.84232344	0.67095903	0.28180279	1.13554589
76_60	10/5/18	750	7900	8650	0.35	150	1700	1850	0.2	0.275	2762	0.07851722	0.84052398	0.66880127	0.28089653	0.97900816
76_61	12/4/18	570	6500	7070	0.35	120	1200	1320	0.21	0.28	2822	0.07429504	0.83735782	0.66505874	0.27932467	1.00241771
76_62	1/24/19	670	7900	8570	0.42	83	920	1003	0.22	0.32	2873	0.07088519	0.83467596	0.66194055	0.27801503	1.1510169
76_63	2/16/19	2600	31000	33600	0.35	78	810	888	0.15	0.25	2896	0.06939905	0.83346931	0.66055255	0.27743207	0.90112149
76_64	4/29/19	820	10000	10820	0.44	120	1500	1620	0.27	0.355	2968	0.06494525	0.82970323	0.65627797	0.27563675	1.28792697
76_65	5/15/19	1900	25000	26900	0.29	120	1400	1520	0.19	0.24	2984	0.063995	0.82886863	0.65534213	0.2752437	0.87195457
76_66	6/4/19	110	1600	1710	0.32	79	1100	1179	0.19	0.255	3004	0.06282671	0.82782657	0.65417933	0.27475532	0.9280985
76_67	7/16/19	440	6500	6940	0.38	62	920	982	0.24	0.31	3046	0.06044227	0.82564251	0.65176219	0.27374012	1.13246096
76_68	8/6/19	270	3900	4170	0.43	40	600	640	0.22	0.325	3067	0.0592842	0.82455264	0.65056592	0.27323769	1.1894406
76_69	9/2/19	1100	16000	17100	0.35	74	1100	1174	0.23	0.29	3094	0.0578278	0.82315349	0.64903962	0.27259664	1.0638429
76_70	10/5/19	240	3400	3640	0.28	96	1400	1496	0.18	0.23	3127	0.05609626	0.82144664	0.64719172	0.27182052	0.84614656
76_71	12/5/19	17	280	297	0.28	8.1	140	148.1	0.09	0.185	3188	0.05303086	0.81830087	0.6438252	0.27040659	0.68415494
76_72	1/25/20	520	8500	9020	0.44	11	190	201	0.13	0.285	3239	0.05059695	0.81568005	0.64105784	0.26924429	1.05851826
76_73	2/8/20	160	2900	3060	0.39	12	160	172	0.11	0.25	3253	0.04994858	0.81496208	0.64030546	0.26892829	0.92961584
76_74	7/27/20	170	3100	3270	0.26	13	220	233	0.1	0.18	3423	0.04270795	0.80629411	0.63140492	0.26519007	0.67875846
76_75	8/11/20	88	1700	1788	0.33	16	300	316	0.1	0.215	3438	0.04212185	0.80553373	0.63063942	0.26486856	0.81172338
76_76	9/2/20	440	9000	9440	0.34	18	280	298	0.09	0.215	3460	0.04127675	0.80441981	0.62952222	0.26439933	0.81316394
76_77	10/1/20	150	3000	3150	0.19	11	220	231	0.07	0.13	3489	0.04018862	0.8029538	0.62805939	0.26378494	0.4928257
76_78	11/9/20	310	6100	6410	0.36	13	250	263	0.12	0.24	3528	0.03877035	0.80098649	0.62610942	0.26296596	0.91266567
76_79	12/4/20	540	12000	12540	0.38	10	220	230	0.13	0.255	3553	0.03788765	0.79972793	0.62486962	0.26244524	0.97163127
76_80	1/28/21	180	3700	3880	0.38	9.4	200	209.4	0.12	0.25	3608	0.03601579	0.79696605	0.62216922	0.26131107	0.95671415
76_81	2/14/21	250	5900	6150	0.36	9.3	200	209.3	0.1	0.23	3625	0.03545614	0.79611431	0.62134193	0.26096361	0.88134893
76_82	4/21/21	120	3100	3220	0.11	28	670	698	0.13	0.12	3691	0.0333646	0.79281617	0.618162	0.25962804	0.46219969
76_83	5/18/21	100	2400	2500	0.39	8.5	180	188.5	0.13	0.26	3718	0.03254495	0.79147087	0.61687536	0.25908765	1.0035214
76_84	6/1/21	100	2600	2700	0.31	9.3	280	289.3	0.1	0.205	3732	0.0321279	0.79077421	0.61621137	0.25880878	0.7920906
76_85	7/18/21	440	12000	12440	0.34	23	640	663	0.1	0.22	3779	0.03076652	0.7884399	0.61399778	0.25787907	0.85311306
76_86	8/30/21	220	6300	6520	0.37	10	240	250	0.09	0.23	3822	0.02957159	0.78631028	0.61199297	0.25703705	0.89481265
76_87	9/21/21	96	3000	3096	0.38	10	170	180	0.1	0.24	3844	0.0289783	0.78522294	0.61097458	0.25660933	0.93527388
76_88	10/23/21	300	8600	8900	0.38	6.3	180	180	0.11	0.245	3876	0.0281365	0.78364403	0.60950195	0.25599082	0.95706557
76_89	12/26/21	310	8800	9110	0.35	10	280	290	0.08	0.215	3940	0.02652557	0.78049574	0.60658662	0.25476638	0.84391041
76_90	1/21/22	96	2900	2996	0.3	8.8	210	218.8	0.1	0.2	3966	0.02589778	0.77922036	0.60541334	0.2542736	0.78655431
76_91	2/17/22	200	6100	6300	0.33	8.1	200	208.1	0.1	0.215	3993	0.02526156	0.77789813	0.60420153	0.25376464	0.84724176
76_92	4/26/22	140	4900	5040	0.34	9.5	250	259.5	0.11	0.225	4061	0.02372763	0.77457801	0.60117847	0.25249496	0.89110691
76_93	5/18/22	66	2000	2066	0.18	6.9	260	260	0.07	0.125	4083	0.02325158	0.77350689	0.60020904	0.2520878	0.49585898
76_94	6/10/22	110	3400	3510	0.21	10	260	270	0.08	0.145	4106	0.0227641	0.77238867	0.59919995	0.25166398	0.57616509
76_95	7/9/22	100	3900	4000	0.19	9.4	190	190	0.07	0.13	4135	0.022164	0.77098104	0.59793392	0.25113225	0.51765555
76_96	8/10/22	93	3900	3993	0.34	8.4	270	270	0.1	0.22	4167	0.02152015	0.76943077	0.59654491	0.25054886	0.87807224
76_97	9/15/22	94	3600	3694	0.19	9.7	260	269.7	0.07	0.13	4203	0.02081816	0.76769044	0.59499209	0.24989668	0.520215
76_98	10/17/22	78	2500	2578	0.23	8.7	260	260	0.09	0.16	4235	0.02021341	0.76614679	0.59362033	0.24932054	0.64174416
76_99	12/20/22				0.19				0.1	0.145	4299	0.0190561	0.76306879	0.59090021	0.24817809	0.58425787
76_100	1/16/23	130	5400	5530	0.3	9.4	360	360	0.11	0.205	4326	0.01858796	0.76177397	0.58976177	0.24769994	0.82761424
76_101	2/3/23	140	6000	6140	0.3	8.1	250	258.1	0.1	0.2	4344	0.01828228	0.76091197	0.58900573	0.24738241	0.80846492
76_102	4/25/23	120	5800	5920	0.28	7.7	200	200	0.1	0.19	4425	0.01696772	0.75704506	0.58563185	0.24596538	0.77246644
76_103	5/25/23	71	3700	3771	0.28	8.6	100	100	0.09	0.185	4455	0.0165052	0.75561787	0.58439368	0.24544535	0.75373196
76_104	6/26/23	100	5100	5200	0.24	8.1	230	230	0.09	0.165	4487	0.01602574	0.75409849	0.58307956	0.24489342	0.6737625
76_105	7/12/23	170	8800	8970	0.3	7.4	240	240	0.09	0.195	4503	0.01579126	0.75333994	0.58242502	0.24461851	0.79715963
76_106	8/16/23	69	3400	3469	0.26	6.4	390	396.4	0.08	0.17	4538	0.01529022	0.75168329	0.58099895	0.24401956	0.69666547
76_107	9/12/23	110	5300	5410	0.3	9.2	210	210	0.08	0.19	4565	0.0149146	0.75040779	0.57990413	0.24355974	0.7800961
76_108	10/17/23	86	5000	5086	0.29	9.3	250	250	0.09	0.19	4600	0.01444137	0.74875758	0.57849167	0.2429665	0.78200081
76_109	12/8/23	180	9900	10080	0.3	8	230	230	0.1	0.2	4652	0.01376588	0.74631255	0.57640688	0.24209089	0.826136
76_110	1/17/24	130	6300	6430	0.334	10	220	220	0.102	0.218	4692	0.01326785	0.74443719	0.57481409	0.24142192	0.90298347
76_111	2/2/24	130	6400	6530	0.35	6.8	240	240	0.09	0.22	4708	0.01307372	0.74368836	0.57417956	0.24115542	0.91227476
76_112	4/24/24	95	5300	5395	0.29	9.3	180	180	0.1	0.195	4790	0.0121225	0.73986244	0.5709503	0.23979912	0.81318062
76_113	5/20/24	72	5100	5172	0.3	10	300	300	0.09	0.195	4816	0.0118356	0.73865346	0.56993411	0.23937233	0.8146305
76_114	6/4/24	91	6300	6391	0.28	7.8	300	307.8	0.09	0.185	4831	0.01167317	0.73795687	0.56934951	0.23912679	0.77364814
76_115	7/4/24	67	5000	5067	0.28	9.6	230	230	0.09	0.185	4861	0.01135498	0.73656566	0.56818389	0.23863723	0.77523527
76_116	8/23/24	66	3400	3466	0.26	7.3	240	240	0.08	0.17	4911	0.01084381	0.7342528	0.56625162	0.23782568	0.71480927
76_117	9/26/24	72	5000	5072	0.24	8.3	200	200	0.1	0.17	4945	0.01050943	0.7326842	0.56494497	0.23727689	0.71646253

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
77_1	11/29/11	1500	1900	3400	0.53	1200	1500	2700	0.49	0.51	260	0.78700569	0.983779	0.99934104	0.50966393	1.0006594
77_2	1/15/12	3200	4200	7400	0.55	2700	3500	6200	0.49	0.52	307	0.75365723	0.98087495	0.98672548	0.50323	1.03332473
77_3	5/6/12	16	1100	1600	0.51	14	980	1400	0.39	0.45	419	0.67977367	0.97398916	0.95842932	0.48879895	0.92062391
77_4	7/9/12	12	730	1200	0.48	19	1700	2700	0.38	0.43	483	0.6408537	0.97007616	0.94330456	0.48108533	0.89381234
77_5	10/4/12	14	1100	1800	0.47	16	1200	2000	0.4	0.435	570	0.59149556	0.96478211	0.92386922	0.4711733	0.92322718
77_6	10/30/12	12	720	1200	0.44	23	2500	4100	0.45	0.445	596	0.57749639	0.96320559	0.91829939	0.46833269	0.95017924
77_7	1/10/13	14	1000	1900	0.38	13	650	1200	0.35	0.365	668	0.5404346	0.95885329	0.90341677	0.46074255	0.79219945
77_8	5/10/13	440	910	1350	0.396	480	970	1450	0.412	0.404	788	0.48387472	0.95164311	0.88026892	0.44893715	0.89990325
77_9	6/20/13	610	1300	1910	0.27	1000	2300	3300	0.354	0.312	829	0.46593941	0.94919208	0.87280244	0.44512924	0.70092003
77_10	8/7/13	620	1300	1920	0.246	780	1700	2480	0.298	0.272	877	0.44578491	0.9463306	0.86432994	0.44080827	0.61704831
77_11	10/8/13	900	2000	2900	0.316	920	2100	3020	0.272	0.294	939	0.42103683	0.94264729	0.85379636	0.43543614	0.67518511
77_12	12/9/13	320	850	1170	0.27	820	2000	2820	0.34	0.305	1001	0.39766266	0.93897831	0.84370179	0.43028791	0.70882772
77_13	5/10/15	210	820	1030	0.22	260	1000	1260	0.22	0.22	1518	0.24698513	0.90893454	0.77372859	0.39460158	0.55752437
77_14	6/12/15	400	1500	1900	0.17	530	2100	2630	0.21	0.19	1551	0.23958962	0.90704982	0.76997979	0.3926897	0.48384259
77_15	8/2/15	340	1400	1740	0.19	510	1900	2410	0.21	0.2	1602	0.22859339	0.90414476	0.76432704	0.38980679	0.51307469
77_16	10/11/15	340	1400	1740	0.25	330	1300	1630	0.2	0.225	1672	0.21431753	0.90017256	0.7568345	0.3859856	0.5829233
77_17	12/1/15	560	2500	3060	0.21	530	2300	2830	0.21	0.21	1723	0.20448119	0.89728952	0.75155999	0.38329559	0.54788003
77_18	1/9/16	340	1400	1740	0.21	480	2100	2580	0.2	0.205	1762	0.197265	0.89509108	0.74762656	0.38128954	0.53764915
77_19	5/1/16	170	830	1000	0.21	340	1800	2140	0.2	0.205	1875	0.17776261	0.8887516	0.73669101	0.37571241	0.5456301
77_20	6/19/16	87	420	507	0.21	300	1300	1600	0.17	0.19	1924	0.16991678	0.88601659	0.73215009	0.37339655	0.50884241
77_21	8/11/16	400	2300	2700	0.21	450	2600	3050	0.18	0.195	1977	0.16181983	0.8830678	0.72736705	0.3709572	0.52566712
77_22	10/3/16	160	1000	1160	0.2	530	3300	3830	0.16	0.18	2030	0.15410873	0.88012882	0.72271174	0.36858299	0.48835678
77_23	12/4/16	370	2200	2570	0.22	380	2500	2880	0.18	0.2	2092	0.14555327	0.87670317	0.71742031	0.36588436	0.5466208
77_24	1/18/17	170	1100	1270	0.16	190	1200	1390	0.13	0.145	2137	0.13964267	0.87422517	0.71367932	0.36397645	0.39837742
77_25	5/3/17	110	730	840	0.19	220	1400	1620	0.15	0.17	2242	0.12676787	0.86847038	0.70525673	0.35968093	0.47264112
77_26	6/23/17	150	1100	1250	0.17	150	1200	1350	0.15	0.16	2293	0.12094972	0.86568888	0.70131187	0.35766906	0.44734091
77_27	8/7/17	76	630	706	0.16	130	1100	1230	0.13	0.145	2338	0.11603821	0.86324201	0.697906	0.35593206	0.40738112
77_28	10/11/17	110	750	860	0.16	93	840	933	0.15	0.155	2403	0.10929379	0.85971985	0.69310479	0.35348344	0.43849296
77_29	12/11/17	130	1000	1130	0.15	140	1300	1440	0.14	0.145	2464	0.1033214	0.85642751	0.68872027	0.35124734	0.41281451
77_30	1/30/18	110	930	1040	0.12	200	1600	1800	0.11	0.115	2514	0.09867021	0.85373828	0.6852097	0.34945695	0.32908203
77_31	5/13/18	120	1100	1220	0.15	220	1900	2120	0.14	0.145	2617	0.08973818	0.84822504	0.67820062	0.34588232	0.41921773
77_32	6/19/18	110	1100	1210	0.15	110	960	1070	0.12	0.135	2654	0.08673096	0.84625326	0.6757522	0.34463362	0.39172034
77_33	8/5/18	100	1000	1100	0.14	220	2300	2520	0.14	0.14	2701	0.08305583	0.84375518	0.67269224	0.34307304	0.40807636
77_34	10/20/18	150	1600	1750	0.13	170	1900	2070	0.11	0.12	2777	0.0774397	0.83973132	0.66785794	0.34060755	0.35231163
77_35	11/3/18	79	850	929	0.12	160	1700	1860	0.14	0.13	2791	0.07644736	0.83899217	0.66698216	0.3401609	0.38217208
77_36	12/14/18	100	1100	1200	0.13	130	1400	1530	0.12	0.125	2832	0.07361376	0.83683128	0.66444286	0.33886586	0.36887753
77_37	5/1/19	85	1300	1385	0.16	120	1600	1720	0.15	0.155	2970	0.0648257	0.82959886	0.65616071	0.33464196	0.4631816
77_38	6/20/19	76	1200	1276	0.2	95	1400	1495	0.18	0.19	3020	0.06190746	0.82699387	0.6532546	0.33315985	0.57029682
77_39	8/5/19	65	940	1005	0.17	140	2000	2140	0.15	0.16	3066	0.05933884	0.8246045	0.65062271	0.33181758	0.48219266
77_40	10/5/19	140	2000	2140	0.1	120	2000	2120	0.09	0.095	3127	0.05609626	0.82144664	0.64719172	0.33006778	0.28781967
77_41	11/1/19	53	890	943	0.19	99	1600	1699	0.15	0.17	3154	0.05471817	0.82005276	0.64569385	0.32930387	0.51624052
77_42	12/2/19	96	1400	1496	0.1	63	1300	1363	0.11	0.105	3185	0.05317763	0.8184553	0.64398931	0.32843455	0.3196984
77_43	8/20/20	58	1100	1158	0.12	85	1600	1685	0.1	0.11	3447	0.04177406	0.80507785	0.6301816	0.32139261	0.34226051
77_44	10/18/20	75	1800	1875	0.14	75	1500	1575	0.13	0.135	3506	0.03956413	0.80209566	0.62720699	0.31987557	0.42203911
77_45	11/6/20	30	660	690	0.16	59	1100	1159	0.1	0.13	3525	0.03887765	0.80113765	0.62625872	0.31939195	0.40702341
77_46	12/18/20	76	1600	1676	0.13	49	1100	1149	0.13	0.13	3567	0.03740214	0.799024	0.62417873	0.31833115	0.40837976
77_47	5/18/21	52	1000	1052	0.16	57	1200	1257	0.14	0.15	3718	0.03254495	0.79147087	0.61687536	0.31460643	0.47678618
77_48	6/4/21	45	1200	1245	0.15	17	450	467	0.14	0.145	3735	0.03203923	0.79062501	0.61606937	0.31419538	0.46149628
77_49	8/30/21	67	1700	1767	0.15	34	1100	1134	0.14	0.145	3822	0.02957159	0.78631028	0.61199297	0.31211641	0.46457025
77_50	10/23/21	49	1500	1549	0.14	45	1400	1445	0.13	0.135	3876	0.0281365	0.78364403	0.60950195	0.310846	0.43429866
77_51	11/18/21	21	730	751	0.12	59	1800	1859	0.13	0.125	3902	0.02747059	0.78236351	0.60831285	0.31023955	0.40291445
77_52	12/27/21	12	350	362	0.14	38	1200	1238	0.13	0.135	3941	0.02650114	0.78044665	0.60654138	0.3093361	0.43641851
77_53	5/17/22	16	600	616	0.11	9.5	320	320	0.11	0.11	4082	0.02327301	0.77355555	0.60025302	0.30612904	0.3593256
77_54	6/11/22	7.7	230	230	0.12	24	730	754	0.1	0.11	4107	0.02274314	0.77234009	0.59915618	0.30556965	0.35998339
77_55	8/8/22	49	1500	1549	0.12	20	1100	1120	0.1	0.11	4165	0.02155984	0.76952757	0.59663148	0.30428205	0.3615067
77_56	10/17/22	33	1200	1233	0.13	16	700	716	0.13	0.13	4235	0.02021341	0.76614679	0.59362033	0.30274637	0.42940234
77_57	11/7/22	21	750	771	0.12	19	750	769	0.1	0.11	4256	0.01982612	0.76513545	0.59272439	0.30228944	0.36388965
77_58	12/22/22				0.14				0.13	0.135	4301	0.01902103	0.7629728	0.5908157	0.30131601	0.44803461
77_59	5/29/23	24	1100	1124	0.12	34	1600	1634	0.12	0.12	4459	0.01644449	0.75542778	0.58422904	0.29795681	0.40274293
77_60	6/30/23	18	820	838	0.12	31	1200	1231	0.12	0.12	4491	0.0159668	0.75390878	0.58291577	0.29728704	0.40365029
77_61	8/28/23	13	520	533	0.13	31	1600	1631	0.12	0.125	4550	0.01512212	0.75111613	0.5805118	0.29606102	0.42221026
77_62	10/11/23	30	1300	1330	0.12	33	1700	1733	0.1	0.11	4594	0.01452142	0.74904022	0.57873327	0.29515397	0.37268684
77_63	11/28/23	11	590	601	0.11	30	1800	1830	0.14	0.125	4642	0.01389328	0.74678213	0.57680655	0.29417134	0.42492243
77_64	12/22/23	12	450	462	0.13	30	1800	1830	0.14	0.135	4666	0.01358948	0.74565564	0.57584834	0.29368265	0.45967986
77_65	5/10/24	23	1300	1323	0.14	22	1500	1522	0.12	0.13	4806	0.01194513	0.73911822	0.57032452	0.29086551	0.44694196
77_66	6/19/24	15	690	705	0.12	25	1500	1525	0.11	0.115	4846	0.01151298	0.73726093	0.56876611	0.29007071	0.39645505
77_67	8/23/24	22	1500	1522	0.11	25	1600	1625	0.1	0.105	4911	0.01084381	0.7342528	0.56625162	0.28878833	0.36358811

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
78_1	11/26/11	1800	2300	4100	0.93	1300	1600	2900	1.08	1.005	257	0.78918374	0.98396466	1.00016191	1.00516272	0.99983812
78_2	1/21/12	7100	9500	16600	0.89	2800	3700	6500	1.03	0.96	313	0.74950298	0.98050484	0.98514755	0.99007329	0.96962519
78_3	3/2/12					830	1000	1830	0.77	0.77	354	0.72172188	0.97797947	0.97455674	0.97942952	0.78617193
78_4	4/30/12	18	1400	2000	0.69	13	710	1000	0.66	0.675	413	0.68354144	0.97435682	0.95988496	0.96468439	0.69971071
78_5	5/9/12	18	1300	1900	0.68	14	790	1200	0.69	0.685	422	0.67789758	0.97380539	0.95770396	0.96249248	0.71169387
78_6	6/6/12	19	1400	2000	0.75	13	730	1100	0.75	0.75	450	0.66063519	0.97209183	0.95101246	0.95576752	0.78470965
78_7	7/9/12	27	3800	5900	0.79	18	1300	2200	0.87	0.83	483	0.6408537	0.97007616	0.94330456	0.94802108	0.87550796
78_8	8/8/12	13	700	1100	0.7	17	1400	2300	0.98	0.84	513	0.62338499	0.96824735	0.93646043	0.94114274	0.89253199
78_9	8/29/12	16	1100	1900	0.57	21	1700	2700	0.72	0.645	534	0.611441	0.96696923	0.93175963	0.93641842	0.68879465
78_10	10/3/12	21	2300	3800	0.75	24	1900	3300	0.9	0.825	569	0.59204072	0.96484279	0.92408558	0.928706	0.88833279
78_11	11/13/12	15	1100	1800	0.7	16	1100	2000	0.91	0.805	610	0.57009612	0.96235777	0.91534399	0.91992071	0.87507542
78_12	12/20/12	17	1100	1900	0.86	18	1300	2300	0.9	0.88	647	0.55099155	0.96012067	0.90767724	0.91221562	0.9646842
78_13	1/10/13	23	2200	4300	0.9	20	1400	2600	0.84	0.87	668	0.5404346	0.95885329	0.90341677	0.90793386	0.95821958
78_14	2/28/13	16	920	1800	0.5	22	1700	3300	0.82	0.66	717	0.51658165	0.95590256	0.89372365	0.89819227	0.73480926
78_15	4/25/13	1100	2100	3200	0.464	1300	2400	3700	0.6625	0.56325	773	0.49060753	0.95254141	0.88305508	0.88747035	0.63466909
78_16	6/18/13	810	1600	2410	0.49	1400	2800	4200	0.874	0.682	827	0.46679868	0.94931149	0.87316167	0.87752748	0.77718364
78_17	6/26/13	1300	2700	4000	0.5	1600	3100	4700	0.824	0.662	835	0.46337109	0.94883392	0.87127275	0.87608638	0.75563325
78_18	7/8/13	1200	2400	3600	0.454	1700	3600	5300	0.73	0.592	847	0.45827685	0.94811801	0.86959188	0.87393984	0.67739217
78_19	8/20/13	490	1100	1590	0.498	1100	2300	3400	0.762	0.63	890	0.44047803	0.9455571	0.86208369	0.86639411	0.72715176
78_20	9/11/13	660	1500	2160	0.52	2100	4800	6900	0.664	0.592	912	0.4316407	0.94424954	0.85832815	0.86261979	0.68628149
78_21	10/8/13	430	990	1420	0.454	1500	3500	5000	0.658	0.556	939	0.42103683	0.94264729	0.85379636	0.85806534	0.6479693
78_22	12/9/13	510	1300	1810	0.52	1100	2700	3800	0.65	0.585	1001	0.39766266	0.93897831	0.84370179	0.8479203	0.68992333
78_23	1/7/14	690	1700	2390	0.452	1500	3800	5300	0.74	0.596	1030	0.38717949	0.93726708	0.83912407	0.84331969	0.7067308
78_24	4/25/15	600	2200	2800	0.49	1200	4300	5500	0.59	0.54	1503	0.25042177	0.90979252	0.77545696	0.77933425	0.6928991
78_25	5/10/15	620	2500	3120	0.45	1200	4500	5700	0.65	0.55	1518	0.24698513	0.90893454	0.77372859	0.77759724	0.70730704
78_26	6/6/15	480	1900	2380	0.37	1000	3600	4600	0.6	0.485	1545	0.24091759	0.90739221	0.77065598	0.77450926	0.62620297
78_27	7/12/15	410	1600	2010	0.4	1200	4300	5500	0.6	0.5	1581	0.23305877	0.90533983	0.76663432	0.77046749	0.64895665
78_28	8/8/15	570	2300	2870	0.4	990	3800	4790	0.6	0.5	1608	0.22733335	0.9038036	0.76367296	0.76749133	0.65147316
78_29	9/6/15	540	2200	2740	0.33	980	4000	4980	0.57	0.45	1637	0.2213404	0.90215647	0.76054325	0.76434597	0.58873863
78_30	10/9/15	170	740	910	0.28	780	3400	4180	0.45	0.365	1670	0.21471277	0.90028581	0.75704445	0.76082967	0.47973944
78_31	12/4/15	750	3200	3950	0.32	590	2400	2990	0.45	0.385	1726	0.20391685	0.89712022	0.75125439	0.75501066	0.50992658
78_32	1/10/16	410	1800	2210	0.35	560	2900	3460	0.48	0.415	1763	0.19708336	0.89503478	0.74752681	0.75126444	0.55240203
78_33	2/1/16	370	1700	2070	0.26	580	2800	3380	0.36	0.31	1785	0.19312926	0.89379709	0.74534615	0.74907288	0.41384491
78_34	4/26/16	330	1500	1830	0.33	640	3200	3840	0.51	0.42	1870	0.1785833	0.88903115	0.73716099	0.74084679	0.56691883
78_35	5/21/16	290	1500	1790	0.33	720	3700	4420	0.5	0.415	1895	0.1745174	0.88763425	0.73482345	0.73849756	0.56195175
78_36	6/18/16	320	1600	1920	0.35	490	2700	3190	0.49	0.42	1923	0.17007338	0.88607233	0.7322416	0.73590281	0.57072754
78_37	7/14/16	610	3200	3810	0.35	490	2800	3290	0.51	0.43	1949	0.16604818	0.88462443	0.72987765	0.73352704	0.58620879
78_38	8/6/16	310	1800	2110	0.26	590	3200	3790	0.42	0.34	1972	0.16256692	0.88334557	0.72781273	0.7314518	0.46482899
78_39	9/2/16	350	2000	2350	0.32	420	2300	2720	0.44	0.38	1999	0.15857323	0.88184665	0.72541949	0.72904659	0.52122869
78_40	10/8/16	320	1800	2120	0.34	420	2400	2820	0.42	0.38	2035	0.15340051	0.87985206	0.72227895	0.72589034	0.52349505
78_41	12/5/16	300	1800	2100	0.29	360	2100	2460	0.39	0.34	2093	0.14541924	0.87664803	0.71733629	0.72092297	0.47161766
78_42	1/11/17	230	1500	1730	0.28	340	2600	2940	0.45	0.365	2130	0.14054608	0.87461018	0.71425591	0.71782719	0.50847893
78_43	2/1/17	380	2200	2580	0.27	430	2900	3330	0.46	0.365	2151	0.13785323	0.87345567	0.71253194	0.7160946	0.50970919
78_44	4/26/17	340	2500	2840	0.29	430	3100	3530	0.39	0.34	2235	0.12758799	0.86885285	0.70580543	0.70933446	0.47932255
78_45	5/16/17	170	1200	1370	0.21	440	3200	3640	0.32	0.265	2255	0.12525875	0.86776052	0.70424241	0.70776363	0.37441879
78_46	6/17/17	170	1200	1370	0.23	410	3000	3410	0.39	0.31	2287	0.1216201	0.86601565	0.70177123	0.70528008	0.43954169
78_47	7/16/17	260	2000	2260	0.38	450	3500	3950	0.22	0.3	2316	0.11841396	0.86443739	0.69956251	0.70306032	0.42670592
78_48	8/1/17	220	1800	2020	0.21	380	2700	3080	0.35	0.28	2332	0.11668137	0.86356786	0.69835616	0.70184794	0.39894681
78_49	9/1/17	280	2300	2580	0.24	540	4000	4540	0.44	0.34	2363	0.1133963	0.86188563	0.69604315	0.69952336	0.48604524
78_50	10/6/17	190	1400	1590	0.2	340	2600	2940	0.31	0.255	2398	0.10979838	0.85999027	0.69346929	0.69693664	0.36588692
78_51	12/1/17	230	2000	2230	0.18	290	2400	2690	0.3	0.24	2454	0.10427763	0.85696637	0.68943126	0.69287842	0.34638112
78_52	1/9/18	250	2100	2350	0.2	330	3200	3530	0.27	0.235	2493	0.10059765	0.85486672	0.68667523	0.69010861	0.34052611
78_53	2/15/18	210	2000	2210	0.17	390	3500	3890	0.26	0.215	2530	0.09722651	0.85287951	0.6841016	0.68752211	0.31271722
78_54	4/26/18	130	1200	1330	0.17	290	3000	3290	0.26	0.215	2600	0.09115463	0.84913253	0.67933757	0.68273426	0.31491023
78_55	5/14/18	270	2500	2770	0.16	350	3300	3650	0.26	0.21	2618	0.08965555	0.84817169	0.67813398	0.68152465	0.30813266
78_56	6/7/18	130	1500	1630	0.21	220	2400	2620	0.28	0.245	2642	0.08769506	0.84689226	0.6765424	0.67992512	0.3603338
78_57	7/18/18	190	1800	1990	0.2	270	2800	3070	0.32	0.26	2683	0.08444456	0.84471102	0.67385762	0.67722691	0.38391859
78_58	8/6/18	4.7	12	12	0.18	220	2300	2520	0.41	0.295	2702	0.08297935	0.84370211	0.67262773	0.67599087	0.43639643
78_59	9/1/18	210	2400	2610	0.26	240	2500	2740	0.38	0.32	2728	0.08101545	0.84232344	0.67095903	0.67431382	0.47455649
78_60	10/5/18	130	1400	1530	0.17	230	2200	2430	0.22	0.195	2762	0.07851722	0.84052398	0.66880127	0.67214528	0.29011585
78_61	12/4/18	190	2000	2190	0.18	150	1800	1950	0.24	0.21	2822	0.07429504	0.83735782	0.66505874	0.66838404	0.31419063
78_62	1/24/19	6.7	23	23	0.15	110	1300	1410	0.33	0.24	2873	0.07088519	0.83467596	0.66194055	0.66525025	0.36076649
78_63	2/16/19	4.3	6.9	6.9	0.15	170	2100	2270	0.24	0.195	2896	0.06939905	0.83346931	0.66055255	0.66385531	0.29373871
78_64	4/29/19	8.1	14	14	0.14	200	2500	2700	0.34	0.24	2968	0.06494525	0.82970323	0.65627797	0.65955936	0.3638793
78_65	5/15/19	4.7	12	12	0.1	240	3300	3540	0.23	0.165	2984	0.063995	0.82886863	0.65534213	0.65861884	0.25052426
78_66	6/4/19	3.4	4.4	4.4	0.1	160	2400	2560	0.22	0.16	3004	0.06282671	0.82782657	0.65417933	0.65745023	0.24336443
78_67	7/16/19	4.5	21	21	0.15	140	1900	2040	0.32	0.235	3046	0.06044227	0.82564251	0.65176219	0.655021	0.35876712
78_68	8/6/19	5.6	13	13	0.17	110	1700	1810	0.35	0.26	3067	0.0592842	0.82455264	0.65056592	0.65381875	0.39766372
78_69	9/2/19	5.4	17	17	0.13	160	2500	2660	0.33	0.23	3094	0.0578278	0.82315349	0.64903962	0.65228482	0.3526067
78_70	10/5/19	4.9	11	11	0.12	120	1900	2020	0.21	0.165	3127	0.05609626	0.82144664	0.64719172	0.65042768	0.25367924
78_71	12/5/19	7.7	130	130	0.08	58	1000	1058	0.14	0.11	3188	0.05303086	0.81830087	0.6438252	0.64704433	0.17000381
78_72	1/25/20	12	210	222	0.13	17	250	267	0.13	0.13	3239	0.05059695	0.81568005	0.64105784	0.64426313	0.20178091
78_73	2/15/20	16	290	306	0.13	13	220	233	0.12	0.125	3260	0.04962752	0.81460333	0.63993042	0.64313007	0.19436193
78_74	7/27/20	11	150	161	0.09	12	210	222	0.09	0.09	3423	0.04270795	0.80629411	0.63140492	0.63456194	0.14183013
78_75	8/11/20	19	320	339	0.09	33	610	643	0.11	0.1	3438	0.04212185	0.80553373	0.63063942	0.63379262	0.15778032
78_76	9/3/20	19	330	349	0.1	13	190	203	0.09	0.095	3461	0.04123875	0.80436921	0.62947159	0.63261895	0.15016939
78_77	10/1/20	17	330	347	0.07	27	390	417	0.07	0.07	3489	0.04018862	0.8029538	0.62805939	0.63119969	0.11089993
78_78	11/9/20	16	370	386	0.1	12	280	292	0.12	0.11	3528	0.03877035	0.80098649	0.62610942	0.62923996	0.17481407
78_79	12/4/20	13	260	273	0.11	13	290	303	0.14	0.125	3553	0.03788765	0.79972793	0.62486962	0.62799396	0.1990465
78_80	1/28/21	15	350	365	0.13	13	260	273	0.13	0.13	3608	0.03601579	0.79696605	0.62216922	0.62528007	0.20790684
78_81	2/14/21	19	360	379	0.1	9.7	210	219.7	0.1	0.1	3625	0.03545614	0.79611431	0.62134193	0.62444864	0.16014127
78_82	4/21/21	11	230	241	0.12	14	240	254	0.12	0.12	3691	0.0333646	0.79281617	0.618162	0.62125281	0.19315808
78_83	5/18/21	9.5	360	369.5	0.11	19	340	359	0.12	0.115	3718	0.03254495	0.79147087	0.61687536	0.61995973	0.18549592
78_84	6/4/21	17	450	467	0.13	19	350	369	0.14	0.135	3735	0.03203923	0.79062501	0.61606937	0.61914972	0.21804096
78_85	7/18/21	10	280	290	0.1	7.9	290	290	0.11	0.105	3779	0.03076652	0.7884399	0.61399778	0.61706777	0.17015959
78_86	8/30/21	9.2	77	77	0.11	12	400	412	0.12	0.115	3822	0.02957159	0.78631028	0.61199297	0.61505293	0.18697578
78_87	9/21/21	13	370	383	0.1	10	250	260	0.11	0.105	3844	0.0289783	0.78522294	0.61097458	0.61402946	0.17100157
78_88	10/23/21	10	300	310	0.11	8.9	220	220	0.09	0.1	3876	0.0281365	0.78364403	0.60950195	0.61254946	0.16325212
78_89	12/26/21	13	280	293	0.11	8.8	200	200	0.1	0.105	3940	0.02652557	0.78049574	0.60658662	0.60961955	0.17223857
78_90	1/24/22	8.1	200	200	0.09	12	300	312	0.1	0.095	3969	0.0258263	0.77907333	0.60527837	0.60830476	0.15617172
78_91	2/17/22	8.2	150	150	0.09	8.1	190	190	0.12	0.105	3993	0.02526156	0.77789813	0.60420153	0.60722253	0.17291848
78_92	4/26/22	7.1	170	170	0.1	17	420	437	0.11	0.105	4061	0.02372763	0.77457801	0.60117847	0.60418436	0.17378801
78_93	5/18/22	7.5	150	150	0.07	21	700	721	0.08	0.075	4083	0.02325158	0.77350689	0.60020904	0.60321009	0.12433479
78_94	6/10/22	11	420	431	0.08	13	390	403	0.09	0.085	4106	0.0227641	0.77238867	0.59919995	0.60219595	0.14115007
78_95	7/9/22	7.5	130	130	0.07	12	390	402	0.07	0.07	4135	0.022164	0.77098104	0.59793392	0.60092359	0.11648736
78_96	8/10/22	7.9	270	270	0.07	12	300	312	0.07	0.07	4167	0.02152015	0.76943077	0.59654491	0.59952763	0.11675859
78_97	9/15/22	8.8	160	160	0.07	8.9	390	390	0.07	0.07	4203	0.02081816	0.76769044	0.59499209	0.59796705	0.11706331
78_98	10/17/22	14	300	314	0.13	16	510	526	0.11	0.12	4235	0.02021341	0.76614679	0.59362033	0.59658843	0.20114369
78_99	12/20/22				0.1	23	890	913	0.11	0.105	4299	0.0190561	0.76306879	0.59090021	0.59385471	0.17681092
78_100	1/18/23	8.9	230	230	0.1	8	240	240	0.11	0.105	4328	0.01855375	0.76167814	0.58967765	0.59262604	0.1771775
78_101	2/8/23	8.4	260	260	0.11	9.2	330	330	0.1	0.105	4349	0.01819826	0.7606727	0.58879614	0.59174012	0.17744276
78_102	4/25/23	9.2	110	110	0.1	9.4	290	290	0.15	0.125	4425	0.01696772	0.75704506	0.58563185	0.58856001	0.21238276
78_103	5/29/23	6.3	92	92	0.11	13	390	403	0.11	0.11	4459	0.01644449	0.75542778	0.58422904	0.58715019	0.18734559
78_104	6/26/23	6.7	100	100	0.08	7	210	210	0.1	0.09	4487	0.01602574	0.75409849	0.58307956	0.58599496	0.15358494
78_105	7/12/23	7.1	200	200	0.08	8.8	260	260	0.1	0.09	4503	0.01579126	0.75333994	0.58242502	0.58533714	0.15375754
78_106	8/16/23	6.3	43	43	0.08	7	290	290	0.08	0.08	4538	0.01529022	0.75168329	0.58099895	0.58390394	0.13700884
78_107	9/12/23	9.3	150	150	0.08	10	360	360	0.11	0.095	4565	0.0149146	0.75040779	0.57990413	0.58280366	0.16300515
78_108	10/17/23	9.1	260	260	0.08	8.7	380	380	0.1	0.09	4600	0.01444137	0.74875758	0.57849167	0.58138413	0.15480299
78_109	12/7/23	7.8	170	170	0.09	9.7	370	370	0.11	0.1	4651	0.01377857	0.74635949	0.57644682	0.57932906	0.17261347
78_110	1/17/24	9.1	61	61	0.1	42	1400	1442	0.11	0.105	4692	0.01326785	0.74443719	0.57481409	0.57768816	0.18175896
78_111	2/2/24	8	69	69	0.08	8.9	280	280	0.13	0.105	4708	0.01307372	0.74368836	0.57417956	0.57705046	0.18195982
78_112	4/24/24	9.6	300	300	0.09	8.7	340	340	0.1	0.095	4790	0.0121225	0.73986244	0.5709503	0.57380505	0.16556146
78_113	5/20/24	8.8	250	250	0.09	9.5	490	490	0.1	0.095	4816	0.0118356	0.73865346	0.56993411	0.57278379	0.16585665
78_114	6/4/24	6.5	200	200	0.09	8.6	300	300	0.1	0.095	4831	0.01167317	0.73795687	0.56934951	0.57219626	0.16602695
78_115	7/4/24	7.7	350	350	0.08	8.4	290	290	0.08	0.08	4861	0.01135498	0.73656566	0.56818389	0.57102481	0.14009899
78_116	8/23/24	8.8	240	240	0.08	9	560	569	0.1	0.09	4911	0.01084381	0.7342528	0.56625162	0.56908288	0.1581492
78_117	9/26/24	11	270	281	0.09	7.8	370	370	0.09	0.09	4945	0.01050943	0.7326842	0.56494497	0.56776969	0.15851498

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
79_1	11/25/11	1600	2000	3600	1.41	910	1200	2110	1.4	1.405	256	0.78991109	0.98402655	1.00043595	1.40561251	0.99956424
79_2	1/20/12	4300	5700	10000	1.37	13000	17000	30000	1.34	1.355	312	0.75019376	0.98056651	0.98541003	1.3845011	0.97869189
79_3	3/2/12	2900	4100	7000	1.24					1.24	354	0.72172188	0.97797947	0.97455674	1.36925222	0.90560379
79_4	5/6/12	25	3000	4400	1.19	16	1700	2500	1.23	1.21	419	0.67977367	0.97398916	0.95842932	1.34659319	0.89856388
79_5	7/10/12	17	1600	2500	1.14	20	2300	3600	1.13	1.135	484	0.6402636	0.97001514	0.94307395	1.32501889	0.85659156
79_6	10/4/12	28	4100	6800	1.04	25	3100	5300	1.13	1.085	570	0.59149556	0.96478211	0.92386922	1.29803625	0.83587804
79_7	11/1/12	30	3800	6500	1.07	22	2900	5000	1.08	1.075	598	0.57643336	0.96308443	0.91787533	1.28961484	0.83358222
79_8	12/20/12	15	940	1700	1.17	20	2400	4200	1.15	1.16	647	0.55099155	0.96012067	0.90767724	1.27528652	0.90959952
79_9	2/12/13	22	2500	4600	0.82					0.82	701	0.5242523	0.95686506	0.8968512	1.26007594	0.85075443
79_10	5/10/13	290	560	850	0.476	1300	2600	3900	0.95	0.713	788	0.48387472	0.95164311	0.88026892	1.23677783	0.57649804
79_11	6/21/13	340	690	1030	0.478	590	1100	1690	0.89	0.684	830	0.46551037	0.94913238	0.87262301	1.22603532	0.55789583
79_12	8/6/13	310	650	960	0.516	1000	2300	3300	0.724	0.62	876	0.44619577	0.94639013	0.86450357	1.21462752	0.51044455
79_13	10/8/13	1000	2300	3300	0.406	2100	4900	7000	0.778	0.592	939	0.42103683	0.94264729	0.85379636	1.19958389	0.49350446
79_14	12/9/13	540	1300	1840	0.32	2900	7100	10000	0.83	0.575	1001	0.39766266	0.93897831	0.84370179	1.18540102	0.48506791
79_15	5/11/15	170	630	800	0.26	1100	4200	5300	0.44	0.35	1519	0.24675771	0.90887737	0.77361392	1.08692755	0.32200858
79_16	6/6/15	80	360	440	0.29	1700	6600	8300	0.42	0.355	1545	0.24091759	0.90739221	0.77065598	1.08277165	0.3278623
79_17	8/8/15	120	520	640	0.29	2200	8700	10900	0.38	0.335	1608	0.22733335	0.9038036	0.76367296	1.07296051	0.31222025
79_18	10/9/15	94	470	564	0.26	2800	11000	13800	0.38	0.32	1670	0.21471277	0.90028581	0.75704445	1.06364745	0.30085156
79_19	12/3/15	75	340	415	0.25	2600	11000	13600	0.38	0.315	1725	0.20410479	0.89717665	0.7513562	1.05565546	0.29839281
79_20	2/1/16	110	510	620	0.25	860	3800	4660	0.26	0.255	1785	0.19312926	0.89379709	0.74534615	1.04721134	0.24350386
79_21	5/1/16	97	590	687	0.29	1100	5600	6700	0.41	0.35	1875	0.17776261	0.8887516	0.73669101	1.03505086	0.33814763
79_22	6/18/16	92	490	582	0.27	1200	6100	7300	0.4	0.335	1923	0.17007338	0.88607233	0.7322416	1.02879945	0.32562226
79_23	8/6/16	82	520	602	0.26	1800	9200	11000	0.34	0.3	1972	0.16256692	0.88334557	0.72781273	1.02257689	0.29337647
79_24	10/10/16	50	350	400	0.2	1100	6300	7400	0.33	0.265	2037	0.15311814	0.87974138	0.72210613	1.01455911	0.2611972
79_25	12/5/16	69	350	419	0.19	1000	6300	7300	0.31	0.25	2093	0.14541924	0.87664803	0.71733629	1.00785748	0.24805094
79_26	2/1/17	31	190	221	0.17	660	4100	4760	0.24	0.205	2151	0.13785323	0.87345567	0.71253194	1.00110738	0.20477324
79_27	5/4/17	44	250	294	0.17	540	3800	4340	0.25	0.21	2243	0.12665114	0.86841575	0.70517849	0.99077578	0.21195512
79_28	6/17/17	28	190	218	0.17	680	5100	5780	0.28	0.225	2287	0.1216201	0.86601565	0.70177123	0.98598857	0.22819737
79_29	8/5/17	28	220	248	0.14	1100	7200	8300	0.25	0.195	2336	0.1162522	0.86335061	0.69805592	0.98076857	0.19882366
79_30	10/6/17	40	260	300	0.16	400	3100	3500	0.24	0.2	2398	0.10979838	0.85999027	0.69346929	0.97432435	0.20527045
79_31	12/1/17	26	210	236	0.13	330	2600	2930	0.22	0.175	2454	0.10427763	0.85696637	0.68943126	0.96865092	0.18066364
79_32	2/15/18	33	290	323	0.13	300	2400	2700	0.2	0.165	2530	0.09722651	0.85287951	0.6841016	0.96116275	0.17166708
79_33	5/4/18	20	180	200	0.13	400	3800	4200	0.21	0.17	2608	0.0904853	0.84870536	0.67880158	0.95371622	0.17825009
79_34	6/1/18	23	260	283	0.14	230	2100	2330	0.23	0.185	2636	0.08818113	0.84721193	0.6769389	0.95109915	0.19451179
79_35	8/4/18	17	200	217	0.18	860	8000	8860	0.32	0.25	2700	0.08313238	0.84380825	0.67275678	0.94522327	0.26448778
79_36	10/5/18	18	230	248	0.12	840	9600	10440	0.16	0.14	2762	0.07851722	0.84052398	0.66880127	0.93966579	0.14898914
79_37	11/4/18	12	120	132	0.16	710	7500	8210	0.21	0.185	2792	0.07637696	0.8389394	0.66691978	0.93702229	0.19743394
79_38	12/5/18	17	190	207	0.12	280	3300	3580	0.2	0.16	2823	0.07422663	0.83730515	0.66499706	0.93432087	0.17124738
79_39	5/3/19	24	280	304	0.12	220	3100	3320	0.19	0.155	2972	0.06470637	0.8294945	0.65604354	0.92174117	0.16816
79_40	6/9/19	18	240	258	0.12	370	5300	5670	0.19	0.155	3009	0.06253799	0.82756626	0.65388983	0.91871521	0.16871387
79_41	8/5/19	14	230	244	0.15	450	6400	6850	0.24	0.195	3066	0.05933884	0.8246045	0.65062271	0.9141249	0.21331877
79_42	10/15/19	20	240	260	0.1	600	8500	9100	0.17	0.135	3137	0.05558185	0.82093011	0.6466355	0.90852287	0.14859285
79_43	11/14/19	16	220	236	0.14	610	9600	10210	0.24	0.19	3167	0.05406678	0.81938248	0.64497708	0.9061928	0.20966841
79_44	12/5/19	9	130	139	0.09	88	1500	1588	0.14	0.115	3188	0.05303086	0.81830087	0.6438252	0.90457441	0.12713161
79_45	8/4/20	5.4	130	130	0.1	420	8000	8420	0.21	0.155	3431	0.04239435	0.80588849	0.63099627	0.88654976	0.17483508
79_46	10/9/20	7.8	130	130	0.08	270	5700	5970	0.12	0.1	3497	0.03989352	0.80254986	0.62765779	0.8818592	0.11339679
79_47	11/15/20	8.5	170	178.5	0.13	400	8300	8700	0.2	0.165	3534	0.03855665	0.80068425	0.62581115	0.87926466	0.18765681
79_48	12/5/20	6.3	150	156.3	0.14	270	6100	6370	0.23	0.185	3554	0.03785276	0.79967763	0.62482019	0.87787236	0.21073679
79_49	5/17/21	8.4	130	130	0.13	330	7800	8130	0.24	0.185	3717	0.03257494	0.79152066	0.61692287	0.86677663	0.21343446
79_50	6/4/21	8.7	220	220	0.14	180	5000	5180	0.23	0.185	3735	0.03203923	0.79062501	0.61606937	0.86557747	0.21373015
79_51	8/29/21	8	140	140	0.14	200	6000	6200	0.2	0.17	3821	0.02959885	0.78635975	0.61203938	0.85991532	0.19769388
79_52	10/22/21	11	260	271	0.1	220	6300	6520	0.2	0.15	3875	0.02816244	0.78369333	0.60954782	0.85641469	0.17514879
79_53	11/18/21	8.6	210	210	0.13	160	4200	4360	0.21	0.17	3902	0.02747059	0.78236351	0.60831285	0.85467956	0.19890496
79_54	12/27/21	7.5	280	287.5	0.13	100	2500	2600	0.2	0.165	3941	0.02650114	0.78044665	0.60654138	0.85219064	0.19361865
79_55	5/17/22	34	1300	1334	0.08	11	340	351	0.08	0.08	4082	0.02327301	0.77355555	0.60025302	0.84335549	0.09485917
79_56	6/10/22	8.6	300	300	0.09	190	6500	6690	0.14	0.115	4106	0.0227641	0.77238867	0.59919995	0.84187594	0.1365997
79_57	8/10/22	53	2100	2153	0.21	140	5400	5540	0.22	0.215	4167	0.02152015	0.76943077	0.59654491	0.8381456	0.25651868
79_58	10/17/22	68	3100	3168	0.22	120	4600	4720	0.2	0.21	4235	0.02021341	0.76614679	0.59362033	0.83403656	0.25178752
79_59	11/8/22	84	3600	3684	0.12	110	4100	4210	0.2	0.16	4257	0.01980787	0.76508733	0.59268181	0.83271795	0.19214189
79_60	12/20/22	44	2000	2044	0.12	100	4100	4200	0.19	0.155	4299	0.0190561	0.76306879	0.59090021	0.83021479	0.18669867
79_61	5/29/23	83	4300	4383	0.16	160	6800	6960	0.18	0.17	4459	0.01644449	0.75542778	0.58422904	0.82084181	0.20710446
79_62	6/23/23	56	3500	3556	0.18	120	5700	5820	0.19	0.185	4484	0.01607009	0.7542408	0.58320248	0.81939948	0.2257751
79_63	8/16/23	100	5100	5200	0.12	50	2500	2550	0.15	0.135	4538	0.01529022	0.75168329	0.58099895	0.81630352	0.16537966
79_64	10/17/23	41	2200	2241	0.19	67	3500	3567	0.15	0.17	4600	0.01444137	0.74875758	0.57849167	0.8127808	0.20915848
79_65	11/6/23	61	4200	4261	0.22	68	3500	3568	0.21	0.215	4620	0.01417773	0.74781624	0.57768791	0.81165151	0.26489201
79_66	12/6/23	88	4300	4388	0.22	61	3100	3161	0.19	0.205	4650	0.01379127	0.74640644	0.57648677	0.80996391	0.2530977
79_67	5/14/24	43	2600	2643	0.21	100	6100	6200	0.17	0.19	4810	0.0119012	0.73893228	0.57016829	0.80108645	0.2371779
79_68	6/4/24	42	3400	3442	0.18	73	5200	5273	0.16	0.17	4831	0.01167317	0.73795687	0.56934951	0.79993606	0.21251698
79_69	8/23/24	34	3300	3334	0.17	61	4300	4361	0.15	0.16	4911	0.01084381	0.7342528	0.56625162	0.79558352	0.20111025

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
80_1	11/26/11	1000	1300	2300	1.07	2800	3600	6400	0.94	1.005	257	0.78918374	0.98396466	1.00016191	1.00516272	0.99983812
80_2	1/20/12	2900	3900	6800	0.95	3500	4700	8200	0.92	0.935	312	0.75019376	0.98056651	0.98541003	0.99033708	0.94412298
80_3	3/2/12					1600	2100	3700	0.81	0.81	354	0.72172188	0.97797947	0.97455674	0.97942952	0.82701203
80_4	5/6/12	16	1300	2000	1.06	12	910	1400	0.92	0.99	419	0.67977367	0.97398916	0.95842932	0.96322146	1.02780102
80_5	7/10/12	20	2200	3400	0.82	17	1400	2200	0.77	0.795	484	0.6402636	0.97001514	0.94307395	0.94778932	0.83879401
80_6	10/4/12	20	1700	2900	0.81	15	1300	2300	0.83	0.82	570	0.59149556	0.96478211	0.92386922	0.92848856	0.88315573
80_7	11/1/12	17	1700	3000	0.83	11	650	1100	0.77	0.8	598	0.57643336	0.96308443	0.91787533	0.92246471	0.86724185
80_8	12/20/12	12	530	970	0.57	15	1100	1900	0.58	0.575	647	0.55099155	0.96012067	0.90767724	0.91221562	0.83033343
80_9	2/12/13	20	2100	3900	0.72	17	1800	3400	0.61	0.665	701	0.5242523	0.95686506	0.8968512	0.90133546	0.73779412
80_10	5/10/13	1700	3500	5200	1.154	660	1300	1960	0.784	0.969	788	0.48387472	0.95164311	0.88026892	0.88467026	1.09532335
80_11	6/21/13	640	1400	2040	0.794	1200	2400	3600	0.74	0.767	830	0.46551037	0.94913238	0.87262301	0.87698612	0.87458625
80_12	8/21/13	1700	3800	5500	0.964	1900	4300	6200	0.654	0.809	891	0.44007244	0.94549763	0.86191174	0.8662213	0.93394148
80_13	10/8/13	1800	3800	5600	0.404	1500	3300	4800	0.516	0.46	939	0.42103683	0.94264729	0.85379636	0.85806534	0.53608971
80_14	12/9/13	1500	3500	5000	0.72	920	2200	3120	0.628	0.674	1001	0.39766266	0.93897831	0.84370179	0.8479203	0.79488603
80_15	5/11/15	930	3600	4530	0.48	590	2100	2690	0.47	0.475	1519	0.24675771	0.90887737	0.77361392	0.77748199	0.61094663
80_16	6/7/15	640	2200	2840	0.47	520	2000	2520	0.41	0.44	1546	0.24069575	0.90733513	0.77054312	0.77439583	0.56818488
80_17	8/8/15	1900	7500	9400	0.44	600	2400	3000	0.44	0.44	1608	0.22733335	0.9038036	0.76367296	0.76749133	0.57329638
80_18	10/9/15	830	3600	4430	0.38	830	3200	4030	0.36	0.37	1670	0.21471277	0.90028581	0.75704445	0.76082967	0.48631121
80_19	12/3/15	810	3500	4310	0.38	950	3900	4850	0.38	0.38	1725	0.20410479	0.89717665	0.7513562	0.75511298	0.50323595
80_20	2/1/16	830	3900	4730	0.27	1700	7400	9100	0.24	0.255	1785	0.19312926	0.89379709	0.74534615	0.74907288	0.34042081
80_21	5/1/16	1300	6700	8000	0.4	590	2800	3390	0.38	0.39	1875	0.17776261	0.8887516	0.73669101	0.74037446	0.52678047
80_22	6/18/16	520	2900	3420	0.41	410	2200	2610	0.38	0.395	1923	0.17007338	0.88607233	0.7322416	0.73590281	0.53675566
80_23	8/7/16	660	3700	4360	0.38	160	830	990	0.35	0.365	1973	0.16241723	0.88329001	0.72772351	0.73136212	0.49906878
80_24	10/10/16	570	3100	3670	0.34	460	2500	2960	0.3	0.32	2037	0.15311814	0.87974138	0.72210613	0.72571666	0.44094344
80_25	12/5/16	570	3600	4170	0.29	230	1400	1630	0.34	0.315	2093	0.14541924	0.87664803	0.71733629	0.72092297	0.43693989
80_26	2/1/17	530	3600	4130	0.28	420	2800	3220	0.31	0.295	2151	0.13785323	0.87345567	0.71253194	0.7160946	0.41195674
80_27	5/4/17	320	2300	2620	0.27	240	1800	2040	0.26	0.265	2243	0.12665114	0.86841575	0.70517849	0.70870439	0.37392177
80_28	6/17/17	670	4800	5470	0.29	400	3000	3400	0.28	0.285	2287	0.1216201	0.86601565	0.70177123	0.70528008	0.40409478
80_29	8/6/17	170	1200	1370	0.27	140	1000	1140	0.26	0.265	2337	0.11614516	0.86329631	0.69798094	0.70147085	0.37777764
80_30	10/9/17	170	1400	1570	0.26	260	2100	2360	0.26	0.26	2401	0.10949535	0.85982801	0.69325049	0.69671675	0.37317892
80_31	12/3/17	460	3700	4160	0.24	290	2200	2490	0.25	0.245	2456	0.10408568	0.85685857	0.68928882	0.69273527	0.35367046
80_32	2/15/18	250	2200	2450	0.22	190	1600	1790	0.23	0.225	2530	0.09722651	0.85287951	0.6841016	0.68752211	0.3272622
80_33	5/4/18	250	2400	2650	0.21	92	1000	1092	0.17	0.19	2608	0.0904853	0.84870536	0.67880158	0.68219559	0.2785125
80_34	6/7/18	260	2400	2660	0.22	96	1100	1196	0.21	0.215	2642	0.08769506	0.84689226	0.6765424	0.67992512	0.31621129
80_35	8/4/18	360	3300	3660	0.32	330	3100	3430	0.3	0.31	2700	0.08313238	0.84380825	0.67275678	0.67612056	0.45849811
80_36	10/6/18	150	1800	1950	0.22	39	460	499	0.22	0.22	2763	0.07844493	0.84047111	0.66873822	0.67208191	0.32734105
80_37	11/4/18	470	5200	5670	0.28	210	2100	2310	0.26	0.27	2792	0.07637696	0.8389394	0.66691978	0.67025438	0.40283213
80_38	12/5/18	170	1800	1970	0.21	290	3500	3790	0.2	0.205	2823	0.07422663	0.83730515	0.66499706	0.66832204	0.30673835
80_39	5/3/19	190	2400	2590	0.19	81	1100	1181	0.19	0.19	2972	0.06470637	0.8294945	0.65604354	0.65932376	0.28817405
80_40	6/9/19	110	1400	1510	0.18	53	750	803	0.17	0.175	3009	0.06253799	0.82756626	0.65388983	0.65715928	0.26629769
80_41	8/5/19	140	2200	2340	0.26	100	1400	1500	0.25	0.255	3066	0.05933884	0.8246045	0.65062271	0.65387582	0.38998231
80_42	10/28/19	56	950	1006	0.13	26	380	406	0.13	0.13	3150	0.05492018	0.82025911	0.64591497	0.64914455	0.20026356
80_43	11/14/19	11	180	191	0.21	19	310	329	0.2	0.205	3167	0.05406678	0.81938248	0.64497708	0.64820197	0.31625945
80_44	12/5/19	12	160	172	0.12	15	210	225	0.13	0.125	3188	0.05303086	0.81830087	0.6438252	0.64704433	0.19318615
80_45	8/4/20	22	400	422	0.18	20	380	400	0.16	0.17	3431	0.04239435	0.80588849	0.63099627	0.63415125	0.26807485
80_46	10/9/20	24	430	454	0.12	42	840	882	0.12	0.12	3497	0.03989352	0.80254986	0.62765779	0.63079608	0.1902358
80_47	11/15/20	26	580	606	0.19	17	400	417	0.19	0.19	3534	0.03855665	0.80068425	0.62581115	0.6289402	0.30209549
80_48	12/5/20	19	330	349	0.2	30	520	550	0.19	0.195	3554	0.03785276	0.79967763	0.62482019	0.62794429	0.3105371
80_49	5/17/21	8.8	240	248.8	0.17	35	640	675	0.17	0.17	3717	0.03257494	0.79152066	0.61692287	0.62000748	0.27419024
80_50	6/4/21	22	490	512	0.2	46	990	1036	0.19	0.195	3735	0.03203923	0.79062501	0.61606937	0.61914972	0.31494806
80_51	8/30/21	23	680	703	0.19	11	320	331	0.14	0.165	3822	0.02957159	0.78631028	0.61199297	0.61505293	0.26826959
80_52	10/22/21	54	1400	1454	0.12	16	520	536	0.12	0.12	3875	0.02816244	0.78369333	0.60954782	0.61259556	0.19588781
80_53	11/18/21	20	880	900	0.18	11	390	401	0.12	0.15	3902	0.02747059	0.78236351	0.60831285	0.61135442	0.24535686
80_54	12/27/21	29	1100	1129	0.18	18	460	478	0.13	0.155	3941	0.02650114	0.78044665	0.60654138	0.60957409	0.2542759
80_55	5/17/22	10	370	380	0.1	17	700	717	0.09	0.095	4082	0.02327301	0.77355555	0.60025302	0.60325428	0.1574792
80_56	6/10/22	17	740	757	0.13	17	470	487	0.13	0.13	4106	0.0227641	0.77238867	0.59919995	0.60219595	0.21587658
80_57	8/10/22	57	1900	1957	0.12	18	520	538	0.12	0.12	4167	0.02152015	0.76943077	0.59654491	0.59952763	0.20015758
80_58	10/17/22	26	840	866	0.16	19	520	539	0.13	0.145	4235	0.02021341	0.76614679	0.59362033	0.59658843	0.24304863
80_59	11/8/22	10	640	650	0.17	18	570	588	0.13	0.15	4257	0.01980787	0.76508733	0.59268181	0.59564522	0.25182776
80_60	12/20/22	20	850	870	0.13	20	430	450	0.14	0.135	4299	0.0190561	0.76306879	0.59090021	0.59385471	0.22732833
80_61	5/16/23	12	590	602	0.15	14	640	654	0.11	0.13	4446	0.01664262	0.75604574	0.5847645	0.58768832	0.22120569
80_62	6/23/23	12	680	692	0.15	17	680	697	0.13	0.14	4484	0.01607009	0.7542408	0.58320248	0.58611849	0.23885955
80_63	8/16/23	28	1100	1128	0.12	13	570	583	0.1	0.11	4538	0.01529022	0.75168329	0.58099895	0.58390394	0.18838715
80_64	10/17/23	11	550	561	0.12	12	890	902	0.1	0.11	4600	0.01444137	0.74875758	0.57849167	0.58138413	0.18920365
80_65	11/6/23	15	640	655	0.2	12	600	612	0.13	0.165	4620	0.01417773	0.74781624	0.57768791	0.58057635	0.28420035
80_66	12/6/23	16	1000	1016	0.16	13	580	593	0.13	0.145	4650	0.01379127	0.74640644	0.57648677	0.5793692	0.25027219
80_67	5/14/24	12	830	842	0.15	9.2	550	550	0.13	0.14	4810	0.0119012	0.73893228	0.57016829	0.57301914	0.24431994
80_68	6/4/24	10	720	730	0.12	8.3	460	460	0.12	0.12	4831	0.01167317	0.73795687	0.56934951	0.57219626	0.20971825
80_69	8/22/24	9.9	630	630	0.12	12	640	652	0.1	0.11	4910	0.01085381	0.73429898	0.56629014	0.56912159	0.19328032

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
81_1	11/26/11	1900	2400	4300	0.79	13000	17000	30000	1.08	0.935	257	0.78918374	0.98396466	1.00016191	0.93515138	0.99983812
81_2	1/20/12	3600	4900	8500	0.98	3900	5100	9000	0.6	0.79	312	0.75019376	0.98056651	0.98541003	0.92135838	0.85742966
81_3	3/2/12	3200	4500	7700	0.74	5900	8300	14200	1.06	0.9	354	0.72172188	0.97797947	0.97455674	0.91121055	0.98769708
81_4	4/30/12	21	3100	4500	0.71	47	9600	14000	0.83	0.77	413	0.68354144	0.97435682	0.95988496	0.89749244	0.85794595
81_5	5/8/12	25	3400	5100	0.79	23	3600	5400	0.83	0.81	421	0.67852237	0.97386664	0.95794556	0.8956791	0.90434174
81_6	6/6/12	20	1700	2500	1.2	39	7000	11000	1.12	1.16	450	0.66063519	0.97209183	0.95101246	0.88919665	1.30454832
81_7	7/10/12	23	3200	5100	0.86	23	3300	5400	0.84	0.85	484	0.6402636	0.97001514	0.94307395	0.88177414	0.96396567
81_8	8/8/12	18	1900	3000	0.59	38	7500	12000	0.93	0.76	513	0.62338499	0.96824735	0.93646043	0.87559051	0.86798566
81_9	8/28/12	29	5300	8500	1.16	34	7400	12000	0.85	1.005	533	0.61200453	0.96703006	0.93198182	0.871403	1.15331253
81_10	10/18/12	30	5400	9100	0.91	26	3300	5500	0.89	0.9	584	0.5839159	0.96393289	0.92085686	0.86100116	1.04529475
81_11	11/13/12	12	670	1200	0.28	30	4800	8400	0.75	0.515	610	0.57009612	0.96235777	0.91534399	0.85584663	0.60174333
81_12	12/17/12	6	120	210	0.27	17	1800	3300	0.77	0.52	644	0.55251642	0.96030187	0.9082912	0.84925227	0.61230334
81_13	1/9/13	19	2000	3700	0.76	36	6700	12000	0.82	0.79	667	0.5409327	0.9589136	0.90361819	0.844883	0.93504071
81_14	2/27/13	20	1800	3500	0.75	20	2200	4100	0.81	0.78	716	0.51705776	0.95596268	0.89391807	0.8358134	0.93322266
81_15	4/25/13	280	540	820	0.54	1600	3200	4800	0.192	0.366	773	0.49060753	0.95254141	0.88305508	0.8256565	0.44328362
81_16	6/17/13	350	670	1020	0.202	4600	9700	14300	0.576	0.389	826	0.46722891	0.94937121	0.87334148	0.81657429	0.47638042
81_17	6/28/13	1800	3800	5600	0.686	5000	11000	16000	0.588	0.637	837	0.46251814	0.94871457	0.87137052	0.81473144	0.78185273
81_18	7/8/13	1400	2900	4300	0.536	4300	9200	13500	0.642	0.589	847	0.45827685	0.94811801	0.86959188	0.81306841	0.72441629
81_19	8/20/13	260	590	850	0.2	2700	6100	8800	0.6	0.4	890	0.44047803	0.9455571	0.86208369	0.80604825	0.49624821
81_20	9/11/13	400	890	1290	0.186	3900	8800	12700	0.592	0.389	912	0.4316407	0.94424954	0.85832815	0.80253682	0.48471296
81_21	10/11/13	590	1300	1890	0.2	2900	6400	9300	0.81	0.505	942	0.41987482	0.94246943	0.853298	0.79783363	0.63296404
81_22	12/10/13	420	1000	1420	0.19	2900	6800	9700	0.598	0.394	1002	0.39729649	0.93891925	0.84354244	0.78871218	0.49954852
81_23	1/7/14	160	420	580	0.18	4100	9900	14000	0.524	0.352	1030	0.38717949	0.93726708	0.83912407	0.784581	0.44864711
81_24	5/3/15	200	710	910	0.17	3000	10000	13000	0.43	0.3	1511	0.24858299	0.90933483	0.77453325	0.72418859	0.41425674
81_25	5/12/15	640	2600	3240	0.17	9200	36000	45200	0.47	0.32	1520	0.24653049	0.9088202	0.77349931	0.72322185	0.44246451
81_26	6/9/15	170	650	820	0.13	2200	7800	10000	0.37	0.25	1548	0.24025269	0.907221	0.77031759	0.72024695	0.34710317
81_27	7/5/15	250	960	1210	0.24	2700	9900	12600	0.41	0.325	1574	0.23456653	0.90573854	0.76740969	0.71752806	0.45294396
81_28	8/8/15	140	560	700	0.14	1900	7600	9500	0.37	0.255	1608	0.22733335	0.9038036	0.76367296	0.71403422	0.35712574
81_29	9/16/15	110	480	590	0.17	1500	6100	7600	0.38	0.275	1647	0.21931071	0.9015892	0.75947605	0.71011011	0.38726389
81_30	10/10/15	130	600	730	0.13	1900	7700	9600	0.34	0.235	1671	0.21451506	0.90022918	0.75693945	0.70773838	0.3320436
81_31	12/12/15	150	800	950	0.13	1500	6400	7900	0.34	0.235	1734	0.20241954	0.8966689	0.75044194	0.70166321	0.33491851
81_32	1/23/16	140	650	790	0.1	840	3800	4640	0.25	0.175	1776	0.19473717	0.89430321	0.74623506	0.69772978	0.25081343
81_33	2/3/16	260	1300	1560	0.13	1100	4900	6000	0.33	0.23	1787	0.19277376	0.89368466	0.74514921	0.69671451	0.33012087
81_34	4/30/16	130	660	790	0.13	830	4100	4930	0.3	0.215	1874	0.17792645	0.8888075	0.7367849	0.68889388	0.31209451
81_35	5/21/16	160	840	1000	0.16	1300	6200	7500	0.35	0.255	1895	0.1745174	0.88763425	0.73482345	0.68705992	0.37114667
81_36	6/18/16	1100	5700	6800	0.13	190	940	1130	0.39	0.26	1923	0.17007338	0.88607233	0.7322416	0.6846459	0.37975836
81_37	7/15/16	76	430	506	0.14	1400	7300	8700	0.35	0.245	1950	0.16589529	0.88456879	0.72978736	0.68235118	0.35905265
81_38	8/8/16	290	1500	1790	0.13	920	4800	5720	0.37	0.25	1974	0.16226767	0.88323445	0.72763433	0.68033809	0.36746436
81_39	9/3/16	160	960	1120	0.13	1100	5900	7000	0.34	0.235	2000	0.15842722	0.88179119	0.72533148	0.67818493	0.34651315
81_40	10/6/16	240	1300	1540	0.12	1000	5700	6700	0.32	0.22	2033	0.15368341	0.87996275	0.72245194	0.67549256	0.32568827
81_41	12/4/16	170	1100	1270	0.12	500	3300	3800	0.31	0.215	2092	0.14555327	0.87670317	0.71742031	0.67078799	0.32051856
81_42	1/12/17	130	840	970	0.12	940	6000	6940	0.28	0.2	2131	0.14041666	0.87455517	0.71417342	0.66775214	0.29951233
81_43	2/3/17	100	610	710	0.12	660	3900	4560	0.28	0.2	2153	0.13759947	0.8733458	0.71236866	0.66606469	0.30027113
81_44	4/27/17	76	500	576	0.12	790	5000	5790	0.25	0.185	2236	0.1274705	0.8687982	0.70572694	0.65985469	0.28036476
81_45	5/17/17	31	230	261	0.1	790	5300	6090	0.22	0.16	2256	0.12514341	0.86770594	0.70416464	0.65839394	0.2430156
81_46	6/14/17	120	860	980	0.11	1200	8600	9800	0.25	0.18	2284	0.12195669	0.86617908	0.70200137	0.65637128	0.27423503
81_47	7/21/17	42	370	412	0.11	540	3800	4340	0.26	0.185	2321	0.11786978	0.86416557	0.6991846	0.6537376	0.28298816
81_48	8/12/17	100	740	840	0.11	370	2700	3070	0.25	0.18	2343	0.11550495	0.86297056	0.69753178	0.65219221	0.27599226
81_49	9/3/17	110	940	1050	0.11	680	5100	5780	0.28	0.195	2365	0.11318757	0.86177721	0.69589501	0.65066183	0.29969485
81_50	10/8/17	110	1000	1110	0.09	410	3500	3910	0.2	0.145	2400	0.10959626	0.85988209	0.69332339	0.64825737	0.22367659
81_51	12/3/17	65	500	565	0.1	610	4800	5410	0.23	0.165	2456	0.10408568	0.85685857	0.68928882	0.64448505	0.25601835
81_52	1/15/18	5.4	60	60	0.09	560	4800	5360	0.2	0.145	2499	0.10004314	0.85454416	0.6862552	0.64164862	0.22598038
81_53	2/11/18	7.1	52	52	0.09	960	8400	9360	0.21	0.15	2526	0.09758544	0.85309412	0.68437794	0.63989338	0.23441405
81_54	4/27/18	35	400	435	0.08	480	4600	5080	0.18	0.13	2601	0.09107069	0.84907912	0.67927048	0.6351179	0.20468641
81_55	5/14/18	51	460	511	0.09	310	3100	3410	0.18	0.135	2618	0.08965555	0.84817169	0.67813398	0.63405527	0.21291519
81_56	6/3/18	44	460	504	0.08	790	7800	8590	0.2	0.14	2638	0.08801881	0.84710536	0.67680663	0.6328142	0.22123397
81_57	7/17/18	32	400	432	0.09	810	8600	9410	0.23	0.16	2682	0.08452239	0.84476415	0.6739226	0.63011763	0.25392084
81_58	8/1/18	17	170	187	0.11	570	5400	5970	0.24	0.175	2697	0.08336245	0.84396749	0.67295053	0.62920874	0.2781271
81_59	9/1/18	31	330	361	0.11	550	6100	6650	0.27	0.19	2728	0.08101545	0.84232344	0.67095903	0.62734669	0.30286284
81_60	10/14/18	34	350	384	0.08	160	1700	1860	0.19	0.135	2771	0.07786892	0.84004829	0.66823465	0.62479939	0.21606935
81_61	12/8/18	33	420	453	0.08	320	3900	4220	0.18	0.13	2826	0.07402177	0.83714716	0.66481213	0.62159934	0.20913793
81_62	1/20/19	36	380	416	0.1	320	3700	4020	0.26	0.18	2869	0.07114688	0.83488599	0.66218308	0.61914118	0.29072529
81_63	2/11/19	100	1200	1300	0.11	310	3400	3710	0.26	0.185	2891	0.06971945	0.83373148	0.66085334	0.61789788	0.29940223
81_64	4/29/19	44	530	574	0.1	200	2200	2400	0.23	0.165	2968	0.06494525	0.82970323	0.65627797	0.6136199	0.2688961
81_65	5/17/19	10	190	200	0.06	330	4700	5030	0.17	0.115	2986	0.0638772	0.82876437	0.65522551	0.61263585	0.18771347
81_66	6/5/19	94	1400	1494	0.13	300	4000	4300	0.17	0.15	3005	0.06276886	0.8277745	0.65412139	0.6116035	0.24525693
81_67	7/14/19	57	940	997	0.1	930	13000	13930	0.23	0.165	3044	0.06055374	0.82574638	0.65187655	0.60950457	0.27071167
81_68	8/1/19	20	270	290	0.11	300	4600	4900	0.23	0.17	3062	0.0595579	0.824812	0.65085002	0.60854477	0.27935496
81_69	9/2/19	43	720	763	0.09	360	5400	5760	0.23	0.16	3094	0.0578278	0.82315349	0.64903962	0.60685204	0.2636557
81_70	10/12/19	18	270	288	0.07	250	3700	3950	0.16	0.115	3134	0.05573568	0.82108503	0.64680218	0.60476004	0.19015807
81_71	12/10/19	47	670	717	0.07	120	1900	2020	0.16	0.115	3193	0.05278716	0.81804355	0.64355202	0.60172114	0.19111843
81_72	1/26/20	23	390	413	0.1	380	6100	6480	0.26	0.18	3240	0.05055036	0.81562874	0.641004	0.59933874	0.300331
81_73	2/9/20	36	560	596	0.1	210	3600	3810	0.25	0.175	3254	0.04990259	0.81491082	0.64025183	0.59863546	0.29233149
81_74	7/27/20	7.1	92	92	0.08	430	7900	8330	0.21	0.145	3423	0.04270795	0.80629411	0.63140492	0.5903636	0.24561135
81_75	8/11/20	12	170	182	0.09	240	4800	5040	0.22	0.155	3438	0.04212185	0.80553373	0.63063942	0.58964786	0.26286876
81_76	9/3/20	12	230	242	0.07	160	3000	3160	0.18	0.125	3461	0.04123875	0.80436921	0.62947159	0.58855593	0.21238423
81_77	10/9/20	73	1300	1373	0.08	570	12000	12570	0.12	0.1	3497	0.03989352	0.80254986	0.62765779	0.58686004	0.17039838
81_78	11/14/20	23	510	533	0.08	220	5000	5220	0.18	0.13	3533	0.03859218	0.80073462	0.62586083	0.58517987	0.22215392
81_79	12/8/20	8.4	84	84	0.09	280	6100	6380	0.2	0.145	3557	0.03774829	0.79952674	0.62467197	0.58406829	0.24825864
81_80	1/27/21	16	380	396	0.08	160	3700	3860	0.23	0.155	3607	0.03604898	0.79701618	0.62221799	0.58177382	0.26642656
81_81	2/14/21	20	340	360	0.07	280	6800	7080	0.21	0.14	3625	0.03545614	0.79611431	0.62134193	0.58095471	0.24098264
81_82	4/21/21	12	230	242	0.08	170	3900	4070	0.22	0.15	3691	0.0333646	0.79281617	0.618162	0.57798147	0.25952389
81_83	5/17/21	11	210	221	0.09	440	11000	11440	0.22	0.155	3717	0.03257494	0.79152066	0.61692287	0.57682288	0.26871334
81_84	6/1/21	7.1	73	73	0.07	270	7800	8070	0.21	0.14	3732	0.0321279	0.79077421	0.61621137	0.57615763	0.24298906
81_85	7/18/21	11	300	311	0.08	200	6000	6200	0.18	0.13	3779	0.03076652	0.7884399	0.61399778	0.57408793	0.22644615
81_86	8/29/21	37	800	837	0.08	64	2500	2564	0.16	0.12	3821	0.02959885	0.78635975	0.61203938	0.57225682	0.20969606
81_87	9/17/21	6.8	64	64	0.08	87	2400	2487	0.18	0.13	3840	0.02908528	0.78542053	0.61115938	0.57143402	0.22749783
81_88	10/26/21	8.6	220	228.6	0.08	70	2100	2170	0.12	0.1	3879	0.02805885	0.78349617	0.60936441	0.56975573	0.17551381
81_89	12/17/21	9.1	230	230	0.09	69	2300	2369	0.18	0.135	3931	0.02674641	0.7809377	0.60699423	0.5675396	0.23786886
81_90	1/14/22	8.7	140	140	0.08	83	2400	2483	0.13	0.105	3959	0.02606532	0.77956352	0.60572861	0.56635625	0.18539568
81_91	2/16/22	17	470	487	0.07	97	3300	3397	0.13	0.1	3992	0.02528484	0.77794706	0.60424629	0.56497028	0.17700046
81_92	4/26/22	23	670	693	0.1	110	4000	4110	0.17	0.135	4061	0.02372763	0.77457801	0.60117847	0.56210187	0.24016999
81_93	5/18/22	33	1300	1333	0.07	240	7700	7940	0.13	0.1	4083	0.02325158	0.77350689	0.60020904	0.56119546	0.17819104
81_94	6/11/22	8.6	21	21	0.07	230	9200	9430	0.1	0.085	4107	0.02274314	0.77234009	0.59915618	0.56021103	0.15172854
81_95	7/8/22	13	260	273	0.07	270	9200	9470	0.12	0.095	4134	0.02218442	0.77102953	0.59797746	0.55910892	0.16991322
81_96	8/9/22	8.7	150	150	0.07	150	6400	6550	0.12	0.095	4166	0.02153999	0.76947917	0.59658819	0.55780996	0.1703089
81_97	9/14/22	24	720	744	0.07	300	8900	9200	0.18	0.125	4202	0.02083735	0.76773873	0.59503508	0.5563578	0.22467556
81_98	10/14/22	23	870	893	0.1	190	7500	7690	0.13	0.115	4232	0.02026935	0.76629137	0.5937486	0.55515494	0.20714938
81_99	12/14/22	18	860	878	0.08	67	2600	2667	0.17	0.125	4293	0.01916173	0.76335682	0.59115392	0.55272892	0.22615064
81_100	1/17/23	8.6	380	380	0.07	110	4500	4610	0.16	0.115	4327	0.01857085	0.76172605	0.5897197	0.55138792	0.2085646
81_101	2/8/23	8	67	67	0.09	150	6800	6950	0.17	0.13	4349	0.01819826	0.7606727	0.58879614	0.55052439	0.23613849
81_102	4/25/23	7.4	70	70	0.08	190	9000	9190	0.18	0.13	4425	0.01696772	0.75704506	0.58563185	0.54756578	0.2374144
81_103	5/19/23	9.1	200	200	0.09	63	2600	2663	0.19	0.14	4449	0.01659669	0.75590309	0.58464083	0.54663918	0.25611044
81_104	6/23/23	7.7	330	330	0.08	92	4400	4492	0.15	0.115	4484	0.01607009	0.7542408	0.58320248	0.54529431	0.21089529
81_105	7/12/23	7.7	190	190	0.07	140	5800	5940	0.15	0.11	4503	0.01579126	0.75333994	0.58242502	0.54456739	0.2019952
81_106	8/28/23	8.3	410	410	0.08	98	5200	5298	0.15	0.115	4550	0.01512212	0.75111613	0.5805118	0.54277853	0.21187279
81_107	9/14/23	6.7	100	100	0.08	140	7500	7640	0.15	0.115	4567	0.01488714	0.75031339	0.57982322	0.54213471	0.2121244
81_108	10/13/23	8.8	280	280	0.07	100	5300	5400	0.12	0.095	4596	0.01449469	0.748946	0.57865271	0.54104029	0.17558766
81_109	12/5/23	6.2	170	170	0.08	120	7100	7220	0.18	0.13	4649	0.01380398	0.74645339	0.57652672	0.53905248	0.2411639
81_110	1/12/24	7	240	240	0.08	99	5600	5699	0.15	0.115	4687	0.01332911	0.74467135	0.57501268	0.53763685	0.21389903
81_111	2/1/24	12	830	842	0.08	39	2600	2639	0.16	0.12	4707	0.01308577	0.74373514	0.57421918	0.53689493	0.22350742
81_112	4/23/24	6.9	200	200	0.08	56	3300	3356	0.15	0.115	4789	0.01213368	0.73990898	0.57098945	0.53387514	0.21540617
81_113	5/9/24	9.6	390	399.6	0.08	87	5900	5987	0.17	0.125	4805	0.01195614	0.73916471	0.57036359	0.53328996	0.23439406
81_114	6/4/24	8.8	160	160	0.06	72	5100	5172	0.15	0.105	4831	0.01167317	0.73795687	0.56934951	0.53234179	0.1972417
81_115	7/1/24	7.5	28	28	0.07	68	5400	5468	0.14	0.105	4858	0.0113864	0.73670466	0.56830024	0.53136072	0.19760587
81_116	8/22/24	7.4	400	400	0.07	140	9500	9640	0.15	0.11	4910	0.01085381	0.73429898	0.56629014	0.52948128	0.2077505
81_117	9/24/24	8.5	310	318.5	0.07	37	3200	3237	0.14	0.105	4943	0.01052881	0.73277638	0.56502167	0.52829526	0.19875249

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
82_1	11/17/11	4300	5400	9700	2.46	4100	5200	9300	2.3	2.38	248	0.79575412	0.98452184	1.00263596	2.38627359	0.99737097
82_2	1/15/12	4500	6200	10700	1.44	7500	10000	17500	1.36	1.4	307	0.75365723	0.98087495	0.98672548	2.34840665	0.59614888
82_3	5/6/12	21	2000	3000	1.17	14	1300	2000	1.01	1.09	419	0.67977367	0.97398916	0.95842932	2.28106177	0.47784765
82_4	7/10/12	35	6200	9900	1.25	22	3400	5300	1	1.125	484	0.6402636	0.97001514	0.94307395	2.24451599	0.50122165
82_5	10/3/12	21	2300	3900	1.05	28	4400	7400	0.97	1.01	569	0.59204072	0.96484279	0.92408558	2.19932367	0.45923209
82_6	11/2/12	20	2200	3700	1.08	15	1400	2400	0.98	1.03	599	0.57590258	0.96302385	0.91766354	2.18403922	0.47160325
82_7	12/27/12	17	1400	2600	1.01	23	3200	5800	0.92	0.965	654	0.54744985	0.95969803	0.90624986	2.15687467	0.44740662
82_8	2/13/13	26	3400	6300	1.05	18	2000	3800	1.02	1.035	702	0.52376956	0.95680488	0.89665467	2.13403812	0.48499602
82_9	5/13/13	2300	4500	6800	0.896	2400	4900	7300	0.836	0.866	791	0.48253929	0.95146355	0.87971523	2.09372225	0.41361742
82_10	6/21/13	2800	5800	8600	0.9	1600	3500	5100	0.772	0.836	830	0.46551037	0.94913238	0.87262301	2.07684276	0.40253409
82_11	8/7/13	3300	7300	10600	0.62	10000	22000	32000	0.554	0.587	877	0.44578491	0.9463306	0.86432994	2.05710526	0.28535244
82_12	10/11/13	6300	14000	20300	0.824	2600	5900	8500	0.738	0.781	942	0.41987482	0.94246943	0.853298	2.03084925	0.38456818
82_13	12/10/13	4500	11000	15500	0.928	1600	4000	5600	0.788	0.858	1002	0.39729649	0.93891925	0.84354244	2.00763101	0.42736937
82_14	5/11/15	1100	4100	5200	0.58	1300	4500	5800	0.56	0.57	1519	0.24675771	0.90887737	0.77361392	1.84120112	0.30958052
82_15	6/9/15	1400	5200	6600	0.47	1500	5500	7000	0.45	0.46	1548	0.24025269	0.907221	0.77031759	1.83335586	0.25090601
82_16	8/7/15	1900	7400	9300	0.5	2700	10000	12700	0.44	0.47	1607	0.22754287	0.90386045	0.76378182	1.81780073	0.25855419
82_17	10/10/15	1100	4500	5600	0.44	1500	6600	8100	0.45	0.445	1671	0.21451506	0.90022918	0.75693945	1.80151589	0.2470142
82_18	12/12/15	1900	8500	10400	0.43	2300	9800	12100	0.46	0.445	1734	0.20241954	0.8966689	0.75044194	1.78605182	0.24915291
82_19	2/3/16	900	4400	5300	0.4	1500	6200	7700	0.4	0.4	1787	0.19277376	0.89368466	0.74514921	1.77345511	0.22554842
82_20	5/2/16	2300	12000	14300	0.48	1600	8000	9600	0.48	0.48	1876	0.17759893	0.8886957	0.73659716	1.75310124	0.2738005
82_21	6/15/16	1300	6800	8100	0.47	910	4400	5310	0.48	0.475	1920	0.17054406	0.88623954	0.73251642	1.74338909	0.27245783
82_22	8/8/16	1100	5800	6900	0.43	1200	6000	7200	0.46	0.445	1974	0.16226767	0.88323445	0.72763433	1.73176969	0.25696258
82_23	10/9/16	820	4700	5520	0.41	970	5600	6570	0.39	0.4	2036	0.15325926	0.87979672	0.72219252	1.71881819	0.23271804
82_24	12/6/16	740	4700	5440	0.4	260	1700	1960	0.41	0.405	2094	0.14528534	0.87659289	0.7172523	1.70706048	0.23724994
82_25	2/3/17	690	4500	5190	0.36	970	6100	7070	0.35	0.355	2153	0.13759947	0.8733458	0.71236866	1.6954374	0.20938549
82_26	5/17/17	580	4200	4780	0.31	440	2900	3340	0.34	0.325	2256	0.12514341	0.86770594	0.70416464	1.67591184	0.19392428
82_27	6/14/17	1000	7200	8200	0.34	650	4300	4950	0.34	0.34	2284	0.12195669	0.86617908	0.70200137	1.67076326	0.20349981
82_28	8/11/17	460	3200	3660	0.32	810	6000	6810	0.34	0.33	2342	0.11561141	0.86302484	0.69760655	1.6603036	0.19875883
82_29	10/8/17	510	3900	4410	0.28	290	2400	2690	0.3	0.29	2400	0.10959626	0.85988209	0.69332339	1.65010968	0.17574589
82_30	12/3/17	520	4000	4520	0.29	590	4700	5290	0.31	0.3	2456	0.10408568	0.85685857	0.68928882	1.6405074	0.18287025
82_31	2/11/18	130	1400	1530	0.3	100	880	980	0.31	0.305	2526	0.09758544	0.85309412	0.68437794	1.62881951	0.18725218
82_32	5/5/18	330	3100	3430	0.26	320	2900	3220	0.27	0.265	2609	0.09040198	0.84865198	0.6787347	1.61538859	0.16404721
82_33	6/3/18	300	3100	3400	0.28	780	7700	8480	0.36	0.32	2638	0.08801881	0.84710536	0.67680663	1.61079978	0.19865908
82_34	8/1/18	340	3600	3940	0.33	820	8300	9120	0.35	0.34	2697	0.08336245	0.84396749	0.67295053	1.60162225	0.21228476
82_35	10/14/18	150	1600	1750	0.27	210	2200	2410	0.27	0.27	2771	0.07786892	0.84004829	0.66823465	1.59039846	0.16976878
82_36	11/1/18	520	5700	6220	0.34	300	3200	3500	0.34	0.34	2789	0.07658834	0.83909773	0.667107	1.58771465	0.21414427
82_37	12/8/18	350	3600	3950	0.24	360	4300	4660	0.24	0.24	2826	0.07402177	0.83714716	0.66481213	1.58225286	0.15168246
82_38	5/2/19	240	3000	3240	0.21	250	3900	4150	0.23	0.22	2971	0.06476601	0.82954668	0.65610212	1.56152304	0.14088809
82_39	6/6/19	170	2500	2670	0.22	330	4400	4730	0.26	0.24	3006	0.06271106	0.82772244	0.65406347	1.55667106	0.15417515
82_40	8/1/19	300	4400	4700	0.29	490	6800	7290	0.27	0.28	3062	0.0595579	0.824812	0.65085002	1.54902304	0.18075909
82_41	10/12/19	310	4600	4910	0.19	610	9400	10010	0.17	0.18	3134	0.05573568	0.82108503	0.64680218	1.53938919	0.11692949
82_42	11/15/19	290	4600	4890	0.3	300	4500	4800	0.32	0.31	3168	0.05401699	0.81933094	0.64492207	1.53491452	0.20196564
82_43	12/10/19	210	3300	3510	0.18	280	4700	4980	0.13	0.155	3193	0.05278716	0.81804355	0.64355202	1.53165382	0.1011978
82_44	8/1/20	210	3800	4010	0.18	270	5000	5270	0.18	0.18	3428	0.04251168	0.80604057	0.63114941	1.5021356	0.1198294
82_45	10/11/20	46	960	1006	0.16	200	4000	4200	0.16	0.16	3499	0.03982009	0.8024489	0.62755753	1.49358691	0.10712467
82_46	11/14/20	64	1300	1364	0.18	140	3000	3140	0.2	0.19	3533	0.03859218	0.80073462	0.62586083	1.48954877	0.12755541
82_47	12/6/20	130	2800	2930	0.2	180	3700	3880	0.19	0.195	3555	0.0378179	0.79962733	0.62477077	1.48695443	0.13114054
82_48	5/14/21	120	3300	3420	0.18	180	4400	4580	0.18	0.18	3714	0.03266509	0.79167003	0.61706546	1.4686158	0.12256439
82_49	6/4/21	59	1400	1459	0.22	74	2000	2074	0.19	0.205	3735	0.03203923	0.79062501	0.61606937	1.4662451	0.13981291
82_50	8/29/21	70	2000	2070	0.16	26	660	686	0.18	0.17	3821	0.02959885	0.78635975	0.61203938	1.45665371	0.11670584
82_51	10/22/21	61	1800	1861	0.16	73	1800	1873	0.16	0.16	3875	0.02816244	0.78369333	0.60954782	1.45072381	0.11028977
82_52	11/18/21	99	2800	2899	0.18	53	1800	1853	0.19	0.185	3902	0.02747059	0.78236351	0.60831285	1.44778459	0.12778144
82_53	12/17/21	57	1400	1457	0.19	52	1600	1652	0.16	0.175	3931	0.02674641	0.7809377	0.60699423	1.44464626	0.12113692
82_54	5/19/22	83	2400	2483	0.15	53	2300	2353	0.16	0.155	4084	0.02323017	0.77345824	0.60016508	1.42839289	0.10851356
82_55	6/11/22	81	2500	2581	0.15	11	450	461	0.15	0.15	4107	0.02274314	0.77234009	0.59915618	1.42599171	0.10518995
82_56	8/10/22	33	950	983	0.15	34	1300	1334	0.15	0.15	4167	0.02152015	0.76943077	0.59654491	1.41977688	0.1056504
82_57	10/14/22	48	1700	1748	0.15	58	2400	2458	0.15	0.15	4232	0.02026935	0.76629137	0.5937486	1.41312166	0.10614797
82_58	11/10/22	17	930	947	0.13	97	4200	4297	0.13	0.13	4259	0.01977141	0.76499108	0.59259667	1.41038008	0.09217373
82_59	12/23/22	60	2400	2460	0.17	32	1200	1232	0.17	0.17	4302	0.01900351	0.76292481	0.59077345	1.40604082	0.12090687
82_60	5/19/23	130	6400	6530	0.18	78	3500	3578	0.15	0.165	4449	0.01659669	0.75590309	0.58464083	1.39144518	0.11858175
82_61	6/23/23	9.3	600	609.3	0.16	89	3800	3889	0.13	0.145	4484	0.01607009	0.7542408	0.58320248	1.38802189	0.10446521
82_62	8/15/23	61	3500	3561	0.16	45	2400	2445	0.13	0.145	4537	0.01530431	0.75173057	0.58103958	1.38287421	0.10485408
82_63	10/13/23	54	2500	2554	0.13	37	2100	2137	0.13	0.13	4596	0.01449469	0.748946	0.57865271	1.37719346	0.09439487
82_64	11/6/23	95	4100	4195	0.18	54	2500	2554	0.15	0.165	4620	0.01417773	0.74781624	0.57768791	1.37489722	0.12000897
82_65	12/15/23	60	3100	3160	0.17	46	3000	3046	0.15	0.16	4659	0.0136774	0.74598402	0.57612747	1.37118337	0.11668753
82_66	5/9/24	53	2800	2853	0.17	27	1600	1627	0.12	0.145	4805	0.01195614	0.73916471	0.57036359	1.35746535	0.10681672
82_67	6/4/24	19	1500	1519	0.13	17	1200	1217	0.13	0.13	4831	0.01167317	0.73795687	0.56934951	1.35505184	0.09593729
82_68	8/23/24	14	1200	1214	0.15	170	11000	11170	0.09	0.12	4911	0.01084381	0.7342528	0.56625162	1.34767885	0.08904199

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
83_1	11/16/11	680	820	1500	0.39	620	800	1420	0.39	0.39	247	0.79648753	0.98458377	1.00291192	0.39113565	0.99709653
83_2	1/15/12	1500	1900	3400	0.22	580	760	1340	0.22	0.22	307	0.75365723	0.98087495	0.98672548	0.38482294	0.57169149
83_3	5/6/12	8.6	340	530	0.26	14	910	1400	0.24	0.25	419	0.67977367	0.97398916	0.95842932	0.37378743	0.66882933
83_4	7/10/12	5.3	95	160	0.16	16	730	1200	0.21	0.185	484	0.6402636	0.97001514	0.94307395	0.36779884	0.50299234
83_5	8/29/12	7	120	180	0.11	9.5	530	880	0.15	0.13	534	0.611441	0.96696923	0.93175963	0.36338625	0.35774606
83_6	11/1/12	14	920	1600	0.18	22	1200	2100	0.23	0.205	598	0.57643336	0.96308443	0.91787533	0.35797138	0.57267148
83_7	12/27/12	9.8	560	1000	0.18	20	1100	2000	0.23	0.205	654	0.54744985	0.95969803	0.90624986	0.35343745	0.58001777
83_8	5/13/13	760	1600	2360	0.362	1100	2300	3400	0.39	0.376	791	0.48253929	0.95146355	0.87971523	0.34308894	1.09592574
83_9	6/21/13	500	1100	1600	0.352	540	1100	1640	0.334	0.343	830	0.46551037	0.94913238	0.87262301	0.34032297	1.00786614
83_10	8/7/13	1100	2400	3500	0.274	1700	3800	5500	0.314	0.294	877	0.44578491	0.9463306	0.86432994	0.33708868	0.87217406
83_11	10/10/13	930	2100	3030	0.224	6000	14000	20000	0.3	0.262	941	0.4202618	0.94252871	0.85346401	0.33285096	0.78713908
83_12	12/10/13	940	2200	3140	0.36	3300	7900	11200	0.342	0.351	1002	0.39729649	0.93891925	0.84354244	0.32898155	1.06692913
83_13	5/14/15	560	2100	2660	0.25	590	2200	2790	0.21	0.23	1522	0.24607669	0.90870588	0.77327029	0.30157541	0.76266164
83_14	6/7/15	440	1700	2140	0.21	650	2600	3250	0.2	0.205	1546	0.24069575	0.90733513	0.77054312	0.30051182	0.68216952
83_15	8/6/15	2200	8400	10600	0.23	1300	5100	6400	0.2	0.215	1606	0.22775259	0.9039173	0.76389074	0.29791739	0.72167658
83_16	10/10/15	420	1700	2120	0.22	450	2000	2450	0.18	0.2	1671	0.21451506	0.90022918	0.75693945	0.29520638	0.67749212
83_17	12/9/15	700	3000	3700	0.22	370	1500	1870	0.19	0.205	1731	0.20297974	0.89683812	0.75074619	0.29279101	0.7001581
83_18	2/2/16	1800	8000	9800	0.24	1700	8200	9900	0.17	0.205	1786	0.19295143	0.89374087	0.74524765	0.29064658	0.70532396
83_19	5/2/16	500	2600	3100	0.21	1200	6200	7400	0.22	0.215	1876	0.17759893	0.8886957	0.73659716	0.28727289	0.74841729
83_20	6/15/16	1500	8000	9500	0.24	360	2000	2360	0.19	0.215	1920	0.17054406	0.88623954	0.73251642	0.28568141	0.75258661
83_21	8/10/16	400	2400	2800	0.21	520	2900	3420	0.18	0.195	1976	0.16196897	0.88312334	0.7274561	0.28370788	0.6873267
83_22	10/6/16	300	1800	2100	0.2	1100	6400	7500	0.19	0.195	2033	0.15368341	0.87996275	0.72245194	0.28175625	0.69208756
83_23	12/4/16	400	2600	3000	0.21	420	2500	2920	0.18	0.195	2092	0.14555327	0.87670317	0.71742031	0.27979392	0.69694151
83_24	2/2/17	1400	9700	11100	0.21	1700	11000	12700	0.15	0.18	2152	0.13772629	0.87340073	0.71245028	0.27785561	0.64781849
83_25	5/15/17	180	1300	1480	0.13	180	1300	1480	0.12	0.125	2254	0.1253742	0.8678151	0.70432022	0.27468489	0.4550669
83_26	6/14/17	330	2400	2730	0.16	210	1500	1710	0.14	0.15	2284	0.12195669	0.86617908	0.70200137	0.27378053	0.54788409
83_27	8/2/17	240	1700	1940	0.16	290	2000	2290	0.14	0.15	2333	0.11657393	0.86351354	0.69828105	0.27232961	0.55080312
83_28	10/12/17	130	1000	1130	0.13	310	2400	2710	0.12	0.125	2404	0.10919315	0.85966577	0.69303198	0.27028247	0.46247912
83_29	12/7/17	190	1400	1590	0.13	220	1800	2020	0.11	0.12	2460	0.10370284	0.85664301	0.68900431	0.26871168	0.4465753
83_30	2/12/18	73	700	773	0.13	110	880	990	0.13	0.13	2527	0.09749558	0.85304046	0.68430882	0.26688044	0.48710951
83_31	5/5/18	210	1900	2110	0.12	250	2500	2750	0.11	0.115	2609	0.09040198	0.84865198	0.6787347	0.26470653	0.43444337
83_32	6/4/18	220	2200	2420	0.13	230	2200	2430	0.12	0.125	2639	0.08793776	0.84705208	0.67674053	0.26392881	0.47361257
83_33	8/2/18	180	1900	2080	0.18	240	2600	2840	0.16	0.17	2698	0.08328569	0.84391441	0.67288592	0.26242551	0.64780288
83_34	10/9/18	99	1100	1199	0.12	220	2300	2520	0.14	0.13	2766	0.07822843	0.84031253	0.66854921	0.26073419	0.49859207
83_35	11/1/18	160	2000	2160	0.17	160	1800	1960	0.15	0.16	2789	0.07658834	0.83909773	0.667107	0.26017173	0.61497842
83_36	12/6/18	76	970	1046	0.13	90	1100	1190	0.11	0.12	2824	0.07415828	0.83725248	0.66493539	0.2593248	0.46274016
83_37	5/2/19	81	1200	1281	0.11	39	540	579	0.1	0.105	2971	0.06476601	0.82954668	0.65610212	0.25587983	0.41034888
83_38	6/9/19	80	1100	1180	0.1	64	820	884	0.1	0.1	3009	0.06253799	0.82756626	0.65388983	0.25501703	0.39213067
83_39	8/2/19	110	1700	1810	0.16	130	1800	1930	0.12	0.14	3063	0.05950306	0.82476012	0.65079316	0.25380933	0.55159516
83_40	10/11/19	150	2500	2650	0.1	110	1800	1910	0.08	0.09	3133	0.05578705	0.82113668	0.64685778	0.25227453	0.3567542
83_41	11/8/19	120	1900	2020	0.14	110	1900	2010	0.13	0.135	3161	0.05436645	0.81969177	0.64530755	0.25166994	0.53641686
83_42	12/3/19	67	1100	1167	0.09	91	1400	1491	0.08	0.085	3186	0.05312866	0.81840382	0.64393459	0.25113449	0.33846406
83_43	8/5/20	91	1700	1791	0.13	120	2100	2220	0.13	0.13	3432	0.04235532	0.8058378	0.63094525	0.24606865	0.52830786
83_44	10/6/20	53	1100	1153	0.08	55	1100	1155	0.06	0.07	3494	0.04000393	0.80270131	0.6278083	0.24484524	0.28589488
83_45	11/13/20	81	1700	1781	0.14	100	2100	2200	0.14	0.14	3532	0.03862775	0.80078499	0.62591052	0.2441051	0.57352345
83_46	12/8/20	70	1500	1570	0.18	89	2100	2189	0.12	0.15	3557	0.03774829	0.79952674	0.62467197	0.24362207	0.61570777
83_47	5/14/21	61	1700	1761	0.13	110	2300	2410	0.1	0.115	3714	0.03266509	0.79167003	0.61706546	0.24065553	0.47786145
83_48	6/5/21	66	1400	1466	0.11	34	1000	1034	0.11	0.11	3736	0.03200973	0.79057528	0.61602206	0.2402486	0.45785906
83_49	8/28/21	33	850	883	0.11	18	950	968	0.11	0.11	3820	0.02962613	0.78640921	0.61208579	0.23871346	0.46080351
83_50	10/10/21	36	980	1016	0.13	87	2200	2287	0.11	0.12	3863	0.02847549	0.78428508	0.61009898	0.2379386	0.50433178
83_51	11/20/21	74	2400	2474	0.13	43	1700	1743	0.12	0.125	3904	0.02742002	0.78226509	0.60822165	0.23720645	0.52696713
83_52	12/17/21	16	740	756	0.14	42	1000	1042	0.14	0.14	3931	0.02674641	0.7809377	0.60699423	0.23672775	0.59139666
83_53	5/13/22	71	2100	2171	0.12	67	2100	2167	0.1	0.11	4078	0.02335893	0.7737502	0.600429	0.23416731	0.4697496
83_54	6/6/22	17	650	667	0.1	33	1000	1033	0.1	0.1	4102	0.02284814	0.77258303	0.59937513	0.2337563	0.42779596
83_55	8/9/22	53	2000	2053	0.12	17	780	797	0.1	0.11	4166	0.02153999	0.76947917	0.59658819	0.23266939	0.47277383
83_56	10/14/22	24	890	914	0.09	21	830	851	0.1	0.095	4232	0.02026935	0.76629137	0.5937486	0.23156195	0.41025738
83_57	11/8/22	31	1200	1231	0.11	50	1700	1750	0.09	0.1	4257	0.01980787	0.76508733	0.59268181	0.23114591	0.43262717
83_58	12/13/22	26	970	996	0.11	15	490	505	0.1	0.105	4292	0.01917939	0.76340484	0.59119623	0.23056653	0.45540001
83_59	5/2/23	32	1600	1632	0.1	14	490	504	0.1	0.1	4432	0.01685865	0.75671181	0.5853424	0.22828354	0.43805174
83_60	6/26/23	24	1000	1024	0.09	36	1900	1936	0.08	0.085	4487	0.01602574	0.75409849	0.58307956	0.22740103	0.37378898
83_61	8/15/23	29	1200	1229	0.09	35	2100	2135	0.08	0.085	4537	0.01530431	0.75173057	0.58103958	0.22660544	0.37510133
83_62	10/13/23	13	630	643	0.09	35	2000	2035	0.08	0.085	4596	0.01449469	0.748946	0.57865271	0.22567456	0.37664857
83_63	11/6/23	20	1200	1220	0.11	42	2300	2342	0.09	0.1	4620	0.01417773	0.74781624	0.57768791	0.22529828	0.44385602
83_64	12/1/23	26	1300	1326	0.09	18	790	808	0.09	0.09	4645	0.01385494	0.74664122	0.57668659	0.22490777	0.40016403
83_65	5/17/24	30	1600	1630	0.09	25	1800	1825	0.1	0.095	4813	0.01186835	0.73879286	0.57005118	0.22231996	0.42731206
83_66	6/4/24	86	5000	5086	0.09	20	1200	1220	0.08	0.085	4831	0.01167317	0.73795687	0.56934951	0.22204631	0.38280303
83_67	8/22/24	38	2700	2738	0.08	23	1600	1623	0.08	0.08	4910	0.01085381	0.73429898	0.56629014	0.22085315	0.36223164

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
84_1	11/16/11	900	1000	1900	1.24	2900	3600	6500	1.02	1.13	247	0.79648753	0.98458377	1.00291192	1.13329047	0.99709653
84_2	1/15/12	9400	12000	21400	0.69	4400	6000	10400	0.58	0.635	307	0.75365723	0.98087495	0.98672548	1.1149998	0.56950683
84_3	5/5/12	18	1700	2400	0.5	16	1300	1900	0.8	0.65	418	0.68040019	0.97405043	0.95867147	1.08329876	0.60001915
84_4	7/10/12	17	1200	1900	0.51	43	6500	10000	0.75	0.63	484	0.6402636	0.97001514	0.94307395	1.06567356	0.59117541
84_5	10/3/12	42	6300	10000	1.42	38	4500	7500	1.47	1.445	569	0.59204072	0.96484279	0.92408558	1.0442167	1.38381238
84_6	11/1/12	33	5100	8600	1.05	42	5900	9900	0.45	0.75	598	0.57643336	0.96308443	0.91787533	1.03719913	0.72310126
84_7	12/20/12	19	1100	2100	0.32	50	13000	23000	0.32	0.32	647	0.55099155	0.96012067	0.90767724	1.02567528	0.31198958
84_8	5/13/13	1000	2100	3100	0.384	2000	4100	6100	0.44	0.412	791	0.48253929	0.95146355	0.87971523	0.99407821	0.41445431
84_9	6/21/13	740	1400	2140	0.422	190	420	610	0.646	0.534	830	0.46551037	0.94913238	0.87262301	0.986064	0.541547
84_10	8/6/13	1900	4200	6100	0.35	3000	6300	9300	0.326	0.338	876	0.44619577	0.94639013	0.86450357	0.97688904	0.34599631
84_11	10/10/13	18000	41000	59000	0.428	1100	2400	3500	0.27	0.349	941	0.4202618	0.94252871	0.85346401	0.96441433	0.36187766
84_12	12/10/13	1800	4400	6200	0.32	4100	9500	13600	0.34	0.33	1002	0.39729649	0.93891925	0.84354244	0.95320296	0.34620119
84_13	5/14/15	710	2600	3310	0.23	910	3400	4310	0.24	0.235	1522	0.24607669	0.90870588	0.77327029	0.87379543	0.26894167
84_14	6/7/15	1100	4000	5100	0.22	760	3300	4060	0.23	0.225	1546	0.24069575	0.90733513	0.77054312	0.87071372	0.2584087
84_15	8/6/15	4000	15000	19000	0.27	6500	25000	31500	0.26	0.265	1606	0.22775259	0.9039173	0.76389074	0.86319653	0.30699845
84_16	10/10/15	1200	4700	5900	0.2	1600	6200	7800	0.21	0.205	1671	0.21451506	0.90022918	0.75693945	0.85534158	0.23967033
84_17	12/9/15	1200	4800	6000	0.21	920	3700	4620	0.2	0.205	1731	0.20297974	0.89683812	0.75074619	0.84834319	0.24164749
84_18	2/2/16	770	3600	4370	0.2	2000	9600	11600	0.18	0.19	1786	0.19295143	0.89374087	0.74524765	0.84212984	0.22561841
84_19	5/2/16	800	4300	5100	0.21	2500	13000	15500	0.2	0.205	1876	0.17759893	0.8886957	0.73659716	0.83235479	0.24628921
84_20	6/15/16	800	4200	5000	0.26	520	2600	3120	0.23	0.245	1920	0.17054406	0.88623954	0.73251642	0.82774356	0.29598539
84_21	8/10/16	780	4100	4880	0.22	1100	5800	6900	0.19	0.205	1976	0.16196897	0.88312334	0.7274561	0.82202539	0.24938402
84_22	10/6/16	220	1300	1520	0.19	1100	6200	7300	0.18	0.185	2033	0.15368341	0.87996275	0.72245194	0.81637069	0.22661274
84_23	12/4/16	350	1800	2150	0.18	360	2200	2560	0.19	0.185	2092	0.14555327	0.87670317	0.71742031	0.81068495	0.22820209
84_24	2/2/17	640	4000	4640	0.13	530	3300	3830	0.11	0.12	2152	0.13772629	0.87340073	0.71245028	0.80506882	0.14905558
84_25	5/15/17	440	2900	3340	0.14	1200	8200	9400	0.15	0.145	2254	0.1253742	0.8678151	0.70432022	0.79588185	0.18218785
84_26	6/14/17	440	2900	3340	0.15	1400	9300	10700	0.17	0.16	2284	0.12195669	0.86617908	0.70200137	0.79326155	0.20169892
84_27	8/2/17	350	2700	3050	0.12	1300	9100	10400	0.15	0.135	2333	0.11657393	0.86351354	0.69828105	0.78905759	0.17109017
84_28	10/12/17	180	1600	1780	0.11	190	1500	1690	0.16	0.135	2404	0.10919315	0.85966577	0.69303198	0.78312614	0.17238602
84_29	12/7/17	240	1800	2040	0.12	160	1300	1460	0.14	0.13	2460	0.10370284	0.85664301	0.68900431	0.77857487	0.16697174
84_30	2/12/18	120	1100	1220	0.13	490	4000	4490	0.13	0.13	2527	0.09749558	0.85304046	0.68430882	0.77326896	0.16811744
84_31	5/5/18	320	2900	3220	0.11	260	2700	2960	0.14	0.125	2609	0.09040198	0.84865198	0.6787347	0.76697021	0.16297895
84_32	6/4/18	110	1300	1410	0.11	160	1600	1760	0.2	0.155	2639	0.08793776	0.84705208	0.67674053	0.7647168	0.20268941
84_33	8/2/18	140	1500	1640	0.14	310	3200	3510	0.16	0.15	2698	0.08328569	0.84391441	0.67288592	0.76036109	0.19727469
84_34	10/9/18	170	1900	2070	0.1	190	2200	2390	0.14	0.12	2766	0.07822843	0.84031253	0.66854921	0.7554606	0.15884349
84_35	11/1/18	110	1400	1510	0.13	280	3300	3580	0.17	0.15	2789	0.07658834	0.83909773	0.667107	0.75383091	0.19898362
84_36	12/6/18	150	1700	1850	0.11	340	4200	4540	0.13	0.12	2824	0.07415828	0.83725248	0.66493539	0.75137699	0.15970678
84_37	5/2/19	93	1400	1493	0.09	230	3000	3230	0.12	0.105	2971	0.06476601	0.82954668	0.65610212	0.74139539	0.14162484
84_38	6/9/19	110	1400	1510	0.08	75	910	985	0.12	0.1	3009	0.06253799	0.82756626	0.65388983	0.73889551	0.13533713
84_39	8/2/19	160	2100	2260	0.11	190	2600	2790	0.15	0.13	3063	0.05950306	0.82476012	0.65079316	0.73539627	0.17677544
84_40	10/11/19	160	2500	2660	0.07	160	2300	2460	0.1	0.085	3133	0.05578705	0.82113668	0.64685778	0.73094929	0.11628714
84_41	11/8/19	130	1900	2030	0.11	140	2200	2340	0.14	0.125	3161	0.05436645	0.81969177	0.64530755	0.72919753	0.17142132
84_42	12/3/19	150	2100	2250	0.07	76	1100	1176	0.09	0.08	3186	0.05312866	0.81840382	0.64393459	0.72764609	0.10994356
84_43	8/5/20	25	430	455	0.09	460	8900	9360	0.15	0.12	3432	0.04235532	0.8058378	0.63094525	0.71296814	0.16831047
84_44	10/6/20	700	14000	14700	0.07	370	7500	7870	0.1	0.085	3494	0.04000393	0.80270131	0.6278083	0.70942337	0.11981562
84_45	11/13/20	28	700	728	0.09	170	3800	3970	0.14	0.115	3532	0.03862775	0.80078499	0.62591052	0.70727889	0.16259498
84_46	12/8/20	33	680	713	0.09	240	5000	5240	0.13	0.11	3557	0.03774829	0.79952674	0.62467197	0.70587933	0.155834
84_47	5/17/21	74	1600	1674	0.1	76	1500	1576	0.14	0.12	3717	0.03257494	0.79152066	0.61692287	0.69712284	0.17213609
84_48	6/5/21	83	1900	1983	0.11	17	560	577	0.27	0.19	3736	0.03200973	0.79057528	0.61602206	0.69610492	0.27294736
84_49	8/28/21	7.1	49	49	0.09	93	2600	2693	0.16	0.125	3820	0.02962613	0.78640921	0.61208579	0.69165695	0.18072543
84_50	10/10/21	35	840	875	0.1	140	4200	4340	0.14	0.12	3863	0.02847549	0.78428508	0.61009898	0.68941185	0.17406141
84_51	11/20/21	18	650	668	0.09	360	9500	9860	0.13	0.11	3904	0.02742002	0.78226509	0.60822165	0.68729047	0.16004878
84_52	12/17/21	60	1300	1360	0.1	140	3900	4040	0.15	0.125	3931	0.02674641	0.7809377	0.60699423	0.68590348	0.18224139
84_53	5/13/22	6.8	38	38	0.07	27	1200	1227	0.15	0.11	4078	0.02335893	0.7737502	0.600429	0.67848478	0.16212597
84_54	6/6/22	6.3	15	15	0.09	81	2700	2781	0.13	0.11	4102	0.02284814	0.77258303	0.59937513	0.67729389	0.16241103
84_55	8/9/22	7.2	44	44	0.07	64	2300	2364	0.1	0.085	4166	0.02153999	0.76947917	0.59658819	0.67414465	0.1260857
84_56	10/14/22	19	1200	1219	0.08	27	980	1007	0.11	0.095	4232	0.02026935	0.76629137	0.5937486	0.67093591	0.14159326
84_57	11/8/22	45	1500	1545	0.08	28	1200	1228	0.14	0.11	4257	0.01980787	0.76508733	0.59268181	0.66973045	0.16424518
84_58	12/13/22	7.9	190	197.9	0.08	85	3700	3785	0.11	0.095	4292	0.01917939	0.76340484	0.59119623	0.66805174	0.14220455
84_59	5/16/23	28	950	978	0.11	96	3600	3696	0.09	0.1	4446	0.01664262	0.75604574	0.5847645	0.66078388	0.15133541
84_60	6/26/23	10	500	510	0.09	72	3100	3172	0.1	0.095	4487	0.01602574	0.75409849	0.58307956	0.65887991	0.14418409
84_61	8/15/23	19	840	859	0.08	32	2100	2132	0.11	0.095	4537	0.01530431	0.75173057	0.58103958	0.65657473	0.14469031
84_62	10/13/23	15	780	795	0.08	190	9500	9690	0.12	0.1	4596	0.01449469	0.748946	0.57865271	0.65387757	0.15293383
84_63	11/6/23	14	600	614	0.09	160	6700	6860	0.11	0.1	4620	0.01417773	0.74781624	0.57768791	0.65278734	0.15318925
84_64	12/10/23	7.2	64	64	0.07	43	2000	2043	0.12	0.095	4654	0.01374054	0.74621867	0.57632702	0.65124953	0.14587343
84_65	5/7/24	9.1	490	490	0.07	43	3000	3043	0.12	0.095	4803	0.01197819	0.7392577	0.57044175	0.64459918	0.14737841
84_66	6/4/24	7.6	92	92	0.06	55	3500	3555	0.1	0.08	4831	0.01167317	0.73795687	0.56934951	0.64336495	0.12434622
84_67	8/22/24	7.3	93	93	0.06	32	2700	2732	0.1	0.08	4910	0.01085381	0.73429898	0.56629014	0.63990786	0.125018

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
85_1	11/16/11	2000	2400	4400	3.2	8500	10000	18500	3.74	3.47	247	0.79648753	0.98458377	1.00291192	3.48010437	0.99709653
85_2	1/15/12	1400	1800	3200	1.52	11000	15000	26000	2.16	1.84	307	0.75365723	0.98087495	0.98672548	3.42393743	0.537393
85_3	4/30/12	32	4800	7100	1.6	43	7400	11000	1.88	1.74	413	0.68354144	0.97435682	0.95988496	3.33080082	0.52239689
85_4	5/8/12	34	5500	8000	1.6	46	8600	12000	1.9	1.75	421	0.67852237	0.97386664	0.95794556	3.32407111	0.52646287
85_5	6/6/12	28	3000	4500	1.89	49	8000	12000	2.18	2.035	450	0.66063519	0.97209183	0.95101246	3.30001324	0.61666419
85_6	7/12/12	34	4100	6800	1.36	24	2900	4500	1.52	1.44	486	0.63908502	0.96989312	0.94261323	3.27086792	0.44025012
85_7	8/8/12	35	5500	8700	1.72	26	4200	6900	1.69	1.705	513	0.62338499	0.96824735	0.93646043	3.2495177	0.52469325
85_8	8/28/12	20	2100	3300	1.53	31	4500	7300	1.69	1.61	533	0.61200453	0.96703006	0.93198182	3.23397691	0.49783905
85_9	10/18/12	27	2800	4800	1.48	25	3900	6600	1.72	1.6	584	0.5839159	0.96393289	0.92085686	3.1953733	0.50072397
85_10	11/12/12	35	4600	7900	1.43	36	6200	11000	2.18	1.805	609	0.57062155	0.9624183	0.91555408	3.17697267	0.56815094
85_11	12/6/12	16	1400	2500	1.3	16	1400	2400	1.47	1.385	633	0.55814383	0.96096653	0.91055388	3.15962195	0.43834358
85_12	1/9/13	27	2700	4800	1.4	26	2800	5100	1.57	1.485	667	0.5409327	0.9589136	0.90361819	3.1355551	0.47360035
85_13	2/17/13	18	2000	3600	1.02	29	4100	7800	1.23	1.125	706	0.52184306	0.95656417	0.89586997	3.10866881	0.36189124
85_14	4/25/13	1100	2200	3300	0.54	8100	16000	24100	1.432	0.986	773	0.49060753	0.95254141	0.88305508	3.06420113	0.32178044
85_15	6/17/13	63	120	183	0.294	250	500	750	0.692	0.493	826	0.46722891	0.94937121	0.87334148	3.03049495	0.1626797
85_16	6/28/13	160	340	500	0.4	1100	2400	3500	1.068	0.734	837	0.46251814	0.94871457	0.87137052	3.0236557	0.24275251
85_17	7/11/13	90	190	280	0.442	2000	4300	6300	1.128	0.785	850	0.45701206	0.94793912	0.86906071	3.01564067	0.26030953
85_18	8/8/13	690	1400	2090	0.284	1800	3900	5700	1.046	0.665	878	0.44537443	0.94627108	0.86415643	2.99862282	0.22176847
85_19	9/11/13	330	750	1080	0.248	4500	10000	14500	1.26	0.754	912	0.4316407	0.94424954	0.85832815	2.97839869	0.25315617
85_20	10/17/13	46	99	145	0.168	5200	11000	16200	1.142	0.655	948	0.41756041	0.9421138	0.85230436	2.95749613	0.22147113
85_21	12/10/13	720	1700	2420	0.52	2300	5400	7700	1.28	0.9	1002	0.39729649	0.93891925	0.84354244	2.92709227	0.30747237
85_22	1/7/14	35	99	134	0.224	2900	7300	10200	1.14	0.682	1030	0.38717949	0.93726708	0.83912407	2.91176051	0.23422256
85_23	5/2/15	62	230	292	0.16	1800	6700	8500	0.99	0.575	1510	0.2488121	0.90939203	0.77464847	2.6880302	0.21391129
85_24	5/12/15	32	130	162	0.16	2000	7000	9000	0.97	0.565	1520	0.24653049	0.9088202	0.77349931	2.68404259	0.21050337
85_25	6/12/15	330	1300	1630	0.32	2300	8500	10800	0.92	0.62	1551	0.23958962	0.90704982	0.76997979	2.67182989	0.2320507
85_26	7/5/15	7.9	40	47.9	0.13	3100	12000	15100	0.8	0.465	1574	0.23456653	0.90573854	0.76740969	2.66291162	0.17462089
85_27	8/7/15	47	230	277	0.19	2700	10000	12700	0.86	0.525	1607	0.22754287	0.90386045	0.76378182	2.65032291	0.19808907
85_28	9/16/15	60	290	350	0.17	1600	6700	8300	0.73	0.45	1647	0.21931071	0.9015892	0.75947605	2.6353819	0.17075324
85_29	10/12/15	33	170	203	0.17	1700	6700	8400	0.81	0.49	1673	0.21412019	0.90011594	0.75672962	2.62585178	0.18660612
85_30	12/12/15	50	270	320	0.17	2100	8700	10800	0.74	0.455	1734	0.20241954	0.8966689	0.75044194	2.60403353	0.17472893
85_31	1/23/16	12	57	69	0.09	1800	7900	9700	0.53	0.31	1776	0.19473717	0.89430321	0.74623506	2.58943567	0.1197172
85_32	2/3/16	39	210	249	0.17	2500	11000	13500	0.61	0.39	1787	0.19277376	0.89368466	0.74514921	2.58566774	0.15083144
85_33	4/30/16	38	170	208	0.15	1500	7400	8900	0.72	0.435	1874	0.17792645	0.8888075	0.7367849	2.55664361	0.17014495
85_34	5/21/16	49	270	319	0.16	2500	12000	14500	0.76	0.46	1895	0.1745174	0.88763425	0.73482345	2.54983736	0.18040366
85_35	6/15/16	62	340	402	0.18	1900	9300	11200	0.82	0.5	1920	0.17054406	0.88623954	0.73251642	2.54183199	0.19670852
85_36	7/15/16	66	350	416	0.2	1100	5800	6900	0.74	0.47	1950	0.16589529	0.88456879	0.72978736	2.53236214	0.18559747
85_37	8/7/16	64	350	414	0.18	2300	12000	14300	0.71	0.445	1973	0.16241723	0.88329001	0.72772351	2.52520057	0.17622363
85_38	9/3/16	78	470	548	0.19	2000	11000	13000	0.69	0.44	2000	0.15842722	0.88179119	0.72533148	2.51690024	0.17481821
85_39	10/9/16	28	210	238	0.18	2300	12000	14300	0.67	0.425	2036	0.15325926	0.87979672	0.72219252	2.50600804	0.16959243
85_40	12/6/16	45	350	395	0.16	1700	9700	11400	0.61	0.385	2094	0.14528534	0.87659289	0.7172523	2.48886549	0.15468895
85_41	1/12/17	30	170	200	0.15	2100	14000	16100	0.58	0.365	2131	0.14041666	0.87455517	0.71417342	2.47818176	0.1472854
85_42	2/2/17	31	240	271	0.14	1900	12000	13900	0.51	0.325	2152	0.13772629	0.87340073	0.71245028	2.47220247	0.13146172
85_43	4/28/17	60	450	510	0.16	600	4300	4900	0.69	0.425	2237	0.12735313	0.86874356	0.70564848	2.44860022	0.17356855
85_44	5/14/17	54	470	524	0.13	1100	7300	8400	0.45	0.29	2253	0.12548975	0.86786969	0.70439807	2.44426129	0.11864525
85_45	6/18/17	18	160	178	0.11	680	4800	5480	0.56	0.335	2288	0.12150811	0.86596118	0.70169458	2.43488019	0.13758377
85_46	7/16/17	40	310	350	0.12	820	5800	6620	0.57	0.345	2316	0.11841396	0.86443739	0.69956251	2.42748189	0.14212258
85_47	8/5/17	58	510	568	0.11	800	6100	6900	0.52	0.315	2336	0.1162522	0.86335061	0.69805592	2.42225404	0.13004416
85_48	9/3/17	10	120	130	0.11	570	4000	4570	0.55	0.33	2365	0.11318757	0.86177721	0.69589501	2.41475567	0.13665979
85_49	10/8/17	63	540	603	0.12	920	6700	7620	0.46	0.29	2400	0.10959626	0.85988209	0.69332339	2.40583218	0.12054041
85_50	12/3/17	29	200	229	0.11	730	5700	6430	0.37	0.24	2456	0.10408568	0.85685857	0.68928882	2.39183222	0.10034149
85_51	1/15/18	42	340	382	0.11	460	3600	4060	0.45	0.28	2499	0.10004314	0.85454416	0.6862552	2.38130556	0.11758256
85_52	2/12/18	32	350	382	0.12	380	3400	3780	0.43	0.275	2527	0.09749558	0.85304046	0.68430882	2.37455159	0.11581134
85_53	4/28/18	41	370	411	0.13	880	8200	9080	0.63	0.38	2602	0.09098683	0.84902572	0.67920342	2.35683586	0.16123312
85_54	5/15/18	37	260	297	0.09	910	8600	9510	0.41	0.25	2619	0.089573	0.84811834	0.67806736	2.35289375	0.10625214
85_55	6/3/18	35	340	375	0.12	460	4300	4760	0.43	0.275	2638	0.08801881	0.84710536	0.67680663	2.348519	0.11709507
85_56	7/17/18	30	260	290	0.07	690	7200	7890	0.44	0.255	2682	0.08452239	0.84476415	0.6739226	2.33851143	0.10904373
85_57	8/1/18	33	350	383	0.14	780	8100	8880	0.58	0.36	2697	0.08336245	0.84396749	0.67295053	2.33513832	0.15416646
85_58	9/2/18	27	290	317	0.11	400	4200	4600	0.57	0.34	2729	0.08094085	0.84227046	0.67089517	2.32800624	0.14604772
85_59	10/14/18	56	620	676	0.11	310	2800	3110	0.4	0.255	2771	0.07786892	0.84004829	0.66823465	2.31877422	0.1099719
85_60	12/8/18	52	620	672	0.09	490	5000	5490	0.39	0.24	2826	0.07402177	0.83714716	0.66481213	2.30689808	0.10403581
85_61	1/20/19	20	260	280	0.16	850	9700	10550	0.51	0.335	2869	0.07114688	0.83488599	0.66218308	2.2977753	0.14579319
85_62	2/11/19	30	390	420	0.14	540	6300	6840	0.55	0.345	2891	0.06971945	0.83373148	0.66085334	2.2931611	0.15044735
85_63	4/28/19	23	290	313	0.15	500	6000	6500	0.57	0.36	2967	0.06500511	0.82975542	0.65633662	2.27748808	0.15806888
85_64	5/18/19	19	250	269	0.11	360	5000	5360	0.33	0.22	2987	0.06381838	0.82871224	0.65516722	2.27343025	0.09677007
85_65	6/5/19	39	450	489	0.11	320	4600	4920	0.37	0.24	3005	0.06276886	0.8277745	0.65412139	2.26980123	0.10573613
85_66	7/16/19	26	380	406	0.13	470	6300	6770	0.48	0.305	3046	0.06044227	0.82564251	0.65176219	2.26161481	0.13485939
85_67	8/1/19	43	440	483	0.14	440	6200	6640	0.49	0.315	3062	0.0595579	0.824812	0.65085002	2.25844956	0.13947622
85_68	9/3/19	18	260	278	0.1	360	5200	5560	0.45	0.275	3095	0.05777455	0.82310171	0.64898334	2.25197219	0.12211518
85_69	10/12/19	30	350	380	0.07	460	7600	8060	0.31	0.19	3134	0.05573568	0.82108503	0.64680218	2.24440357	0.08465501
85_70	12/10/19	7.8	79	79	0.09	400	6900	7300	0.2	0.145	3193	0.05278716	0.81804355	0.64355202	2.23312552	0.06493142
85_71	1/26/20	7.2	83	83	0.1	35	550	585	0.3	0.2	3240	0.05055036	0.81562874	0.641004	2.22428387	0.08991658
85_72	2/9/20	6.7	94	94	0.09	41	710	751	0.27	0.18	3254	0.04990259	0.81491082	0.64025183	2.22167386	0.08101999
85_73	7/12/20	4.7	94	94	0.08	54	920	974	0.27	0.175	3408	0.0433022	0.80705521	0.6321735	2.19364206	0.07977601
85_74	8/1/20	7.7	69	69	0.08	34	620	654	0.28	0.18	3428	0.04251168	0.80604057	0.63114941	2.19008846	0.08218846
85_75	9/3/20	8.3	81	81	0.06	69	1000	1069	0.24	0.15	3461	0.04123875	0.80436921	0.62947159	2.18426641	0.06867294
85_76	10/11/20	6.7	88	88	0.06	110	2200	2310	0.16	0.11	3499	0.03982009	0.8024489	0.62755753	2.17762462	0.05051376
85_77	11/14/20	9.4	100	100	0.09	110	2400	2510	0.28	0.185	3533	0.03859218	0.80073462	0.62586083	2.17173707	0.08518527
85_78	12/6/20	8.5	84	84	0.11	80	1700	1780	0.29	0.2	3555	0.0378179	0.79962733	0.62477077	2.16795457	0.09225286
85_79	1/27/21	8.5	110	110	0.1	110	2600	2710	0.31	0.205	3607	0.03604898	0.79701618	0.62221799	2.15909644	0.09494713
85_80	2/14/21	7.1	140	140	0.11	66	1300	1366	0.31	0.21	3625	0.03545614	0.79611431	0.62134193	2.1560565	0.09740004
85_81	4/20/21	35	590	625	0.09	220	4700	4920	0.25	0.17	3690	0.03339535	0.79286604	0.61820981	2.14518805	0.07924713
85_82	5/14/21	7.9	79	79	0.09	69	1700	1769	0.27	0.18	3714	0.03266509	0.79167003	0.61706546	2.14121715	0.08406434
85_83	6/4/21	6.3	72	72	0.1	40	790	830	0.28	0.19	3735	0.03203923	0.79062501	0.61606937	2.13776071	0.08887805
85_84	7/18/21	8	98	98	0.06	110	3400	3510	0.16	0.11	3779	0.03076652	0.7884399	0.61399778	2.1305723	0.05162932
85_85	8/29/21	6	46	46	0.06	120	3300	3420	0.29	0.175	3821	0.02959885	0.78635975	0.61203938	2.12377663	0.08240038
85_86	9/17/21	8.3	100	100	0.07	130	3200	3330	0.27	0.17	3840	0.02908528	0.78542053	0.61115938	2.12072305	0.08016134
85_87	10/22/21	8.8	110	110	0.1	63	2000	2063	0.24	0.17	3875	0.02816244	0.78369333	0.60954782	2.11513093	0.08037327
85_88	12/27/21				0.07				0.29	0.18	3941	0.02650114	0.78044665	0.60654138	2.10469858	0.08552293
85_89	1/25/22	6.7	120	120	0.05	36	1400	1436	0.21	0.13	3970	0.02580252	0.77902433	0.60523339	2.10015987	0.06190005
85_90	2/16/22	7.9	100	100	0.09	25	680	705	0.26	0.175	3992	0.02528484	0.77794706	0.60424629	2.09673463	0.08346311
85_91	4/26/22	9.2	100	100	0.09	99	3000	3099	0.29	0.19	4061	0.02372763	0.77457801	0.60117847	2.08608928	0.09107952
85_92	5/18/22	8.4	130	130	0.05	110	3900	4010	0.11	0.08	4083	0.02325158	0.77350689	0.60020904	2.08272539	0.03841121
85_93	6/11/22	8.9	120	120	0.05	140	5700	5840	0.16	0.105	4107	0.02274314	0.77234009	0.59915618	2.07907195	0.0505033
85_94	7/9/22	9.9	190	190	0.05	71	2600	2671	0.17	0.11	4135	0.022164	0.77098104	0.59793392	2.07483069	0.05301637
85_95	8/9/22	7.6	140	140	0.08	120	4200	4320	0.18	0.13	4166	0.02153999	0.76947917	0.59658819	2.07016102	0.06279705
85_96	9/14/22	7.3	99	99	0.08	100	3400	3500	0.23	0.155	4202	0.02083735	0.76773873	0.59503508	2.06477174	0.07506883
85_97	10/14/22	7	190	197	0.08	110	4000	4110	0.29	0.185	4232	0.02026935	0.76629137	0.5937486	2.06030763	0.08979242
85_98	12/14/22	8.5	96	96	0.08	23	920	943	0.24	0.16	4293	0.01916173	0.76335682	0.59115392	2.05130411	0.07799916
85_99	1/17/23	7.3	120	120	0.08	72	2500	2572	0.29	0.185	4327	0.01857085	0.76172605	0.5897197	2.04632737	0.09040587
85_100	2/8/23	8.1	100	100	0.08	48	2400	2448	0.25	0.165	4349	0.01819826	0.7606727	0.58879614	2.0431226	0.08075874
85_101	4/25/23	8.3	150	150	0.07	46	2000	2046	0.29	0.18	4425	0.01696772	0.75704506	0.58563185	2.03214252	0.08857646
85_102	5/19/23	9	240	240	0.07	70	4600	4670	0.28	0.175	4449	0.01659669	0.75590309	0.58464083	2.02870368	0.08626198
85_103	6/26/23	9.2	110	110	0.06	56	2800	2856	0.27	0.165	4487	0.01602574	0.75409849	0.58307956	2.02328608	0.0815505
85_104	7/12/23	8	230	230	0.08	85	3900	3985	0.25	0.165	4503	0.01579126	0.75333994	0.58242502	2.02101482	0.08164215
85_105	8/18/23	5.8	19	19	0.06	63	3100	3163	0.17	0.115	4540	0.01526208	0.75158873	0.58091769	2.01578439	0.05704975
85_106	9/11/23	8.8	160	160	0.08	14	870	884	0.21	0.145	4564	0.01492834	0.75045499	0.5799446	2.01240777	0.07205299
85_107	10/17/23	7.8	120	120	0.06	83	4400	4483	0.21	0.135	4600	0.01444137	0.74875758	0.57849167	2.0073661	0.06725231
85_108	12/5/23	8	89	89	0.07	38	1800	1838	0.22	0.145	4649	0.01380398	0.74645339	0.57652672	2.00054772	0.07248015
85_109	1/12/24	8.1	180	180	0.09	31	2400	2431	0.21	0.15	4687	0.01332911	0.74467135	0.57501268	1.99529399	0.07517689
85_110	2/1/24	6.2	120	120	0.09	49	2700	2749	0.25	0.17	4707	0.01308577	0.74373514	0.57421918	1.99254055	0.08531821
85_111	4/23/24	5.1	100	100	0.09	57	3600	3657	0.26	0.175	4789	0.01213368	0.73990898	0.57098945	1.9813334	0.08832436
85_112	5/9/24	8	110	110	0.08	34	2500	2534	0.27	0.175	4805	0.01195614	0.73916471	0.57036359	1.97916166	0.08842128
85_113	6/4/24	8.7	120	120	0.07	62	3300	3362	0.24	0.155	4831	0.01167317	0.73795687	0.56934951	1.9756428	0.07845548
85_114	7/1/24	8.9	760	768.9	0.07	54	3900	3954	0.24	0.155	4858	0.0113864	0.73670466	0.56830024	1.97200182	0.07860033
85_115	8/23/24	8.4	100	100	0.08	23	2000	2023	0.26	0.17	4911	0.01084381	0.7342528	0.56625162	1.96489311	0.0865187
85_116	9/24/24	8.6	95	95	0.07	23	1800	1823	0.26	0.165	4943	0.01052881	0.73277638	0.56502167	1.9606252	0.08415683

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
86_1	11/16/11	7900	9600	17500	3.74	5100	6500	11600	2.72	3.23	247	0.79648753	0.98458377	1.00291192	3.23940551	0.99709653
86_2	1/20/12	2800	3800	6600	1.31	2900	3800	6700	1.61	1.46	312	0.75019376	0.98056651	0.98541003	3.18287441	0.45870487
86_3	4/30/12	40	8600	13000	2.48	11	600	870	1.41	1.945	413	0.68354144	0.97435682	0.95988496	3.10042843	0.62733266
86_4	5/8/12	33	6400	9300	2.06	16	1700	2500	1.42	1.74	421	0.67852237	0.97386664	0.95794556	3.09416417	0.56234896
86_5	6/5/12	45	7600	11000	2.24	19	1700	2600	1.57	1.905	449	0.66124407	0.97215298	0.95124902	3.07253435	0.62000934
86_6	7/11/12	40	8500	13000	2.34	19	2600	4100	1.36	1.85	485	0.63967404	0.96995413	0.9428435	3.04538452	0.60747665
86_7	8/8/12	47	12000	18000	2.62	25	3400	5500	1.5	2.06	513	0.62338499	0.96824735	0.93646043	3.0247672	0.68104415
86_8	8/28/12	29	4800	7900	1.48	42	11000	17000	1.88	1.68	533	0.61200453	0.96703006	0.93198182	3.01030127	0.55808368
86_9	10/18/12	16	1700	2900	0.61	12	650	1100	1.51	1.06	584	0.5839159	0.96393289	0.92085686	2.97436766	0.35637827
86_10	11/12/12	33	5400	9500	2.7	17	1700	2800	1.39	2.045	609	0.57062155	0.9624183	0.91555408	2.95723969	0.69152325
86_11	12/17/12	34	5800	10000	1.9	15	1200	2200	1.32	1.61	644	0.55251642	0.96030187	0.9082912	2.93378056	0.54877997
86_12	1/9/13	33	5700	11000	1.86	18	1900	3500	1.36	1.61	667	0.5409327	0.9589136	0.90361819	2.91868674	0.55161795
86_13	2/28/13	26	3300	6200	1.82	18	1900	3600	1.19	1.505	717	0.51658165	0.95590256	0.89372365	2.88672739	0.52135162
86_14	4/24/13	5900	11000	16900	1.31	1800	3500	5300	1.064	1.187	772	0.4910597	0.95260132	0.88324188	2.85287127	0.41607205
86_15	6/17/13	8000	17000	25000	1.776	2000	4200	6200	1.106	1.441	826	0.46722891	0.94937121	0.87334148	2.82089299	0.51083115
86_16	6/27/13	9100	19000	28100	1.262	2000	4300	6300	1.036	1.149	836	0.46294442	0.94877424	0.87154907	2.81510349	0.40815551
86_17	7/11/13	11000	23000	34000	1.57	1500	3200	4700	1.164	1.367	850	0.45701206	0.94793912	0.86906071	2.8070661	0.48698533
86_18	8/20/13	8200	18000	26200	1.3	1300	2600	3900	1.016	1.158	890	0.44047803	0.9455571	0.86208369	2.78453031	0.41586906
86_19	9/12/13	11000	23000	34000	1.476	1500	3300	4800	1.064	1.27	913	0.43124324	0.94419015	0.8581588	2.77185293	0.45817727
86_20	10/7/13	5700	13000	18700	1.354	2800	6400	9200	0.968	1.161	938	0.42142488	0.94270658	0.85396271	2.75829955	0.4209115
86_21	12/10/13	4900	12000	16900	1.882	1500	3600	5100	1.054	1.468	1002	0.39729649	0.93891925	0.84354244	2.72464209	0.53878636
86_22	1/7/14	8400	20000	28400	1.63	1300	3100	4400	0.966	1.298	1030	0.38717949	0.93726708	0.83912407	2.71037073	0.47890128
86_23	2/12/14	6500	17000	23500	0.88					0.88	1066	0.37454955	0.93514713	0.83356422	2.69241242	0.32684443
86_24	5/2/15	5500	19000	24500	1.35	990	3700	4690	0.78	1.065	1510	0.2488121	0.90939203	0.77464847	2.50211457	0.42563998
86_25	5/12/15	4900	17000	21900	1.25	1100	4100	5200	0.76	1.005	1520	0.24653049	0.9088202	0.77349931	2.49840276	0.402257
86_26	6/11/15	3100	11000	14100	0.85	1300	5000	6300	0.64	0.745	1550	0.23981044	0.90710688	0.77009233	2.48739822	0.29950974
86_27	7/4/15	1600	6100	7700	0.42	2000	7600	9600	0.33	0.375	1573	0.23478272	0.90579551	0.76752072	2.47909191	0.15126507
86_28	8/7/15	2400	9300	11700	0.81	560	2300	2860	0.43	0.62	1607	0.22754287	0.90386045	0.76378182	2.46701527	0.25131583
86_29	9/16/15	120	530	650	0.33	1000	4100	5100	0.31	0.32	1647	0.21931071	0.9015892	0.75947605	2.45310765	0.13044678
86_30	10/12/15	1700	7300	9000	0.34	940	3900	4840	0.4	0.37	1673	0.21412019	0.90011594	0.75672962	2.44423667	0.1513765
86_31	12/12/15	820	3700	4520	0.31	460	2200	2660	0.36	0.335	1734	0.20241954	0.8966689	0.75044194	2.42392747	0.13820546
86_32	1/23/16	770	3400	4170	0.24	520	2500	3020	0.31	0.275	1776	0.19473717	0.89430321	0.74623506	2.41033925	0.11409182
86_33	2/3/16	2000	8800	10800	0.33	940	4500	5440	0.34	0.335	1787	0.19277376	0.89368466	0.74514921	2.40683193	0.13918712
86_34	4/30/16	910	4500	5410	0.28	740	3800	4540	0.28	0.28	1874	0.17792645	0.8888075	0.7367849	2.37981524	0.11765619
86_35	5/21/16	790	4000	4790	0.45	420	2100	2520	0.34	0.395	1895	0.1745174	0.88763425	0.73482345	2.37347973	0.16642232
86_36	6/17/16	900	5100	6000	0.4	440	2600	3040	0.39	0.395	1922	0.17023013	0.88612806	0.73233316	2.36543611	0.16698823
86_37	7/15/16	630	3200	3830	0.33	540	2700	3240	0.35	0.34	1950	0.16589529	0.88456879	0.72978736	2.35721318	0.14423812
86_38	8/7/16	270	1600	1870	0.36	810	4300	5110	0.38	0.37	1973	0.16241723	0.88329001	0.72772351	2.35054693	0.15741017
86_39	9/3/16	420	2300	2720	0.34	680	4100	4780	0.32	0.33	2000	0.15842722	0.88179119	0.72533148	2.34282068	0.14085585
86_40	10/9/16	990	5300	6290	0.32	650	3400	4050	0.32	0.32	2036	0.15325926	0.87979672	0.72219252	2.33268183	0.13718116
86_41	12/6/16	570	3500	4070	0.29	480	3300	3780	0.3	0.295	2094	0.14528534	0.87659289	0.7172523	2.31672493	0.12733493
86_42	1/12/17	840	5000	5840	0.22	250	1600	1850	0.26	0.24	2131	0.14041666	0.87455517	0.71417342	2.30678014	0.10404112
86_43	2/4/17	880	5600	6480	0.24	890	5700	6590	0.21	0.225	2154	0.13747277	0.87329086	0.71228707	2.30068725	0.09779686
86_44	4/24/17	590	4000	4590	0.3	290	2000	2290	0.23	0.265	2233	0.12782328	0.86896216	0.70596253	2.28025897	0.11621487
86_45	5/11/17	310	2200	2510	0.28	550	3800	4350	0.25	0.265	2250	0.12583705	0.86803347	0.70463182	2.27596077	0.11643434
86_46	6/13/17	380	2500	2880	0.2	400	2900	3300	0.26	0.23	2283	0.12206909	0.86623357	0.70207816	2.26771245	0.10142379
86_47	7/21/17	120	950	1070	0.18	590	4300	4890	0.22	0.2	2321	0.11786978	0.86416557	0.6991846	2.25836624	0.0885596
86_48	8/5/17	120	940	1060	0.19	620	4200	4820	0.24	0.215	2336	0.1162522	0.86335061	0.69805592	2.25472062	0.09535549
86_49	9/14/17	160	1300	1460	0.27	460	3300	3760	0.14	0.205	2376	0.11204637	0.86118115	0.69508255	2.24511662	0.09130929
86_50	10/10/17	220	1800	2020	0.22	800	6100	6900	0.23	0.225	2402	0.10939452	0.85977393	0.69317762	2.23896373	0.10049292
86_51	12/9/17	400	3300	3700	0.21	180	1700	1880	0.1	0.155	2462	0.10351195	0.85653526	0.68886223	2.22502501	0.06966214
86_52	1/10/18	240	2100	2340	0.23	77	760	837	0.11	0.17	2494	0.10050502	0.85481296	0.68660515	2.21773465	0.0766548
86_53	2/14/18	240	2400	2640	0.22	56	510	566	0.09	0.155	2529	0.09731612	0.85293315	0.68417065	2.20987118	0.07013983
86_54	4/28/18	360	3300	3660	0.23	210	2400	2610	0.24	0.235	2602	0.09098683	0.84902572	0.67920342	2.19382704	0.10711875
86_55	5/15/18	130	1400	1530	0.11	220	2100	2320	0.17	0.14	2619	0.089573	0.84811834	0.67806736	2.19015758	0.06392234
86_56	6/5/18	330	3100	3430	0.19	220	2200	2420	0.13	0.16	2640	0.08785679	0.8469988	0.67667446	2.18565852	0.07320448
86_57	7/18/18	160	1700	1860	0.17	68	630	698	0.09	0.13	2683	0.08444456	0.84471102	0.67385762	2.17656013	0.05972727
86_58	8/2/18	280	2900	3180	0.21	340	3400	3740	0.28	0.245	2698	0.08328569	0.84391441	0.67288592	2.17342151	0.11272549
86_59	9/2/18	120	1300	1420	0.22	200	2200	2400	0.17	0.195	2729	0.08094085	0.84227046	0.67089517	2.1669914	0.08998651
86_60	10/10/18	94	1300	1394	0.17	62	720	782	0.1	0.135	2767	0.07815639	0.84025967	0.66848625	2.15921058	0.06252285
86_61	12/10/18	270	3000	3270	0.16	320	3600	3920	0.11	0.135	2828	0.07388552	0.83704186	0.66468895	2.14694531	0.06288004
86_62	1/20/19	260	3300	3560	0.3	210	2500	2710	0.13	0.215	2869	0.07114688	0.83488599	0.66218308	2.13885136	0.10052124
86_63	2/11/19	620	7300	7920	0.29	190	2300	2490	0.17	0.23	2891	0.06971945	0.83373148	0.66085334	2.1345563	0.10775073
86_64	4/28/19	390	5000	5390	0.23	180	2400	2580	0.21	0.22	2967	0.06500511	0.82975542	0.65633662	2.11996729	0.10377519
86_65	5/15/19	290	3900	4190	0.13	100	1300	1400	0.09	0.11	2984	0.063995	0.82886863	0.65534213	2.11675509	0.05196633
86_66	6/7/19	300	4000	4300	0.17	110	1600	1710	0.08	0.125	3007	0.06265332	0.82767038	0.65400557	2.112438	0.05917333
86_67	7/14/19	35	550	585	0.22	60	920	980	0.1	0.16	3044	0.06055374	0.82574638	0.65187655	2.10556125	0.07598924
86_68	8/2/19	210	3200	3410	0.21	210	3100	3310	0.22	0.215	3063	0.05950306	0.82476012	0.65079316	2.10206191	0.10228053
86_69	9/3/19	80	1200	1280	0.2	180	2500	2680	0.19	0.195	3095	0.05777455	0.82310171	0.64898334	2.09621619	0.09302476
86_70	10/10/19	300	4600	4900	0.12	110	1700	1810	0.08	0.1	3132	0.05583846	0.82118833	0.64691339	2.08953025	0.04785765
86_71	12/4/19	18	250	268	0.1	6.6	75	75	0.07	0.085	3187	0.05307974	0.81835234	0.64387989	2.07973204	0.04087065
86_72	1/26/20	18	220	238	0.14	8	130	138	0.08	0.11	3240	0.05055036	0.81562874	0.641004	2.07044291	0.05312873
86_73	2/9/20	15	190	205	0.14	7.8	110	110	0.09	0.115	3254	0.04990259	0.81491082	0.64025183	2.06801342	0.05560892
86_74	7/12/20	16	190	206	0.12	32	570	602	0.08	0.1	3408	0.0433022	0.80705521	0.6321735	2.04192041	0.04897351
86_75	8/2/20	12	210	222	0.1	21	390	411	0.06	0.08	3429	0.04247253	0.80598987	0.63109835	2.03844767	0.03924555
86_76	9/5/20	46	830	876	0.12	27	630	657	0.08	0.1	3463	0.04116284	0.80426803	0.62937037	2.0328663	0.04919163
86_77	10/7/20	12	220	232	0.07	21	410	431	0.06	0.065	3495	0.03996709	0.80265082	0.62775812	2.02765871	0.03205668
86_78	11/17/20	11	190	201	0.1	26	570	596	0.08	0.09	3536	0.03848567	0.80058353	0.62571183	2.0210492	0.04453133
86_79	12/6/20	12	230	242	0.1	26	540	566	0.1	0.1	3555	0.0378179	0.79962733	0.62477077	2.01800958	0.04955378
86_80	1/27/21	11	210	221	0.12	19	430	449	0.08	0.1	3607	0.03604898	0.79701618	0.62221799	2.00976412	0.04975708
86_81	2/14/21	13	220	233	0.12	8.4	130	130	0.07	0.095	3625	0.03545614	0.79611431	0.62134193	2.00693444	0.04733588
86_82	4/20/21	8.3	220	220	0.11	9.3	100	100	0.08	0.095	3690	0.03339535	0.79286604	0.61820981	1.9968177	0.0475757
86_83	5/14/21	8.3	210	210	0.15	12	290	302	0.1	0.125	3714	0.03266509	0.79167003	0.61706546	1.99312144	0.0627157
86_84	6/4/21	4.8	71	71	0.11	6.7	64	64	0.12	0.115	3735	0.03203923	0.79062501	0.61606937	1.98990407	0.05779173
86_85	7/18/21	17	330	347	0.12	8.4	160	168.4	0.08	0.1	3779	0.03076652	0.7884399	0.61399778	1.98321283	0.05042323
86_86	8/29/21	17	300	317	0.1	6.7	90	96.7	0.07	0.085	3821	0.02959885	0.78635975	0.61203938	1.97688718	0.04299689
86_87	9/17/21	10	250	260	0.08	9.9	240	249.9	0.12	0.1	3840	0.02908528	0.78542053	0.61115938	1.9740448	0.05065741
86_88	10/22/21	14	310	324	0.1	6.9	310	316.9	0.08	0.09	3875	0.02816244	0.78369333	0.60954782	1.96883946	0.04571221
86_89	12/18/21	12	360	372	0.09	20	510	530	0.09	0.09	3932	0.02672178	0.78088858	0.6069489	1.96044495	0.04590795
86_90	1/14/22				0.07				0.07	0.07	3959	0.02606532	0.77956352	0.60572861	1.9565034	0.03577811
86_91	2/16/22	9.7	280	280	0.1	11	300	311	0.08	0.09	3992	0.02528484	0.77794706	0.60424629	1.95171552	0.04611328
86_92	4/26/22	21	640	661	0.08	12	220	232	0.08	0.08	4061	0.02372763	0.77457801	0.60117847	1.94180644	0.04119875
86_93	5/18/22	16	510	526	0.1	20	530	550	0.08	0.09	4083	0.02325158	0.77350689	0.60020904	1.93867521	0.04642345
86_94	6/11/22	45	1600	1645	0.07	8.6	260	260	0.07	0.07	4107	0.02274314	0.77234009	0.59915618	1.93527447	0.03617058
86_95	7/11/22	9	280	280	0.07	13	470	483	0.06	0.065	4137	0.0221232	0.77088405	0.59784686	1.93104536	0.03366052
86_96	8/9/22	9.1	240	240	0.08	7.4	200	207.4	0.07	0.075	4166	0.02153999	0.76947917	0.59658819	1.92697985	0.03892101
86_97	9/15/22	8.8	230	230	0.09	33	1200	1233	0.07	0.08	4203	0.02081816	0.76769044	0.59499209	1.92182444	0.04162711
86_98	10/13/22	9.2	300	300	0.08	14	730	744	0.07	0.075	4231	0.02028803	0.76633957	0.59379137	1.91794611	0.03910433
86_99	12/21/22	8.8	200	200	0.08	7	210	210	0.07	0.075	4300	0.01903856	0.76302079	0.59085795	1.90847118	0.03929847
86_100	1/17/23	7.9	210	210	0.09	12	520	532	0.11	0.1	4327	0.01857085	0.76172605	0.5897197	1.90479464	0.0524991
86_101	2/7/23	9.3	230	230	0.09	26	1000	1026	0.09	0.09	4348	0.01821503	0.76072055	0.58883804	1.90194688	0.04731993
86_102	4/25/23	9.7	170	170	0.07	8.4	380	380	0.08	0.075	4425	0.01696772	0.75704506	0.58563185	1.89159087	0.03964917
86_103	5/19/23	9.3	370	379.3	0.08	23	1000	1023	0.08	0.08	4449	0.01659669	0.75590309	0.58464083	1.88838988	0.04236413
86_104	6/8/23	8.5	270	270	0.08	20	840	860	0.07	0.075	4469	0.0162937	0.75495276	0.58381792	1.88573189	0.03977236
86_105	7/10/23	7.3	160	160	0.08	8.8	380	380	0.09	0.085	4501	0.01582038	0.75343472	0.58250675	1.88149679	0.0451768
86_106	8/15/23	7.8	200	200	0.06	9.6	220	220	0.09	0.075	4537	0.01530431	0.75173057	0.58103958	1.87675785	0.03996253
86_107	9/7/23	7.6	150	150	0.08	10	160	160	0.07	0.075	4560	0.01498345	0.75064383	0.58010653	1.8737441	0.04002681
86_108	10/13/23	8.9	250	250	0.07	7.9	180	180	0.06	0.065	4596	0.01449469	0.748946	0.57865271	1.86904827	0.03477706
86_109	12/5/23	10	320	320	0.09	7.9	700	707.9	0.1	0.095	4649	0.01380398	0.74645339	0.57652672	1.8621813	0.05101544
86_110	1/12/24	8.5	200	200	0.09	9.4	450	459.4	0.09	0.09	4687	0.01332911	0.74467135	0.57501268	1.85729094	0.04845767
86_111	2/1/24	6.8	210	210	0.07	6.8	500	506.8	0.09	0.08	4707	0.01308577	0.74373514	0.57421918	1.85472794	0.04313301
86_112	4/23/24	9.1	280	280	0.1	17	1100	1117	0.09	0.095	4789	0.01213368	0.73990898	0.57098945	1.84429593	0.05151017
86_113	5/9/24	8.5	250	250	0.1	8.3	610	610	0.08	0.09	4805	0.01195614	0.73916471	0.57036359	1.8422744	0.04885266
86_114	6/12/24	9.7	200	200	0.08	12	870	882	0.09	0.085	4839	0.01158746	0.73758562	0.56903821	1.83799343	0.04624608
86_115	7/1/24	7.5	430	430	0.08	7.6	280	280	0.07	0.075	4858	0.0113864	0.73670466	0.56830024	1.83560977	0.04085836
86_116	8/23/24	7.2	51	51	0.07	9.1	280	280	0.09	0.08	4911	0.01084381	0.7342528	0.56625162	1.82899273	0.04373992
86_117	9/20/24	7.1	230	230	0.07	9.3	420	420	0.08	0.075	4939	0.01056768	0.73296077	0.56517513	1.82551567	0.04108428

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
87_1	11/16/11	7700	9700	17400	1.63	3900	5000	8900	1.75	1.69	247	0.79648753	0.98458377	1.00291192	1.69492115	0.99709653
87_2	1/20/12	4200	5600	9800	0.85	3400	4500	7900	0.9	0.875	312	0.75019376	0.98056651	0.98541003	1.66534296	0.5254173
87_3	3/4/12	1800	2500	4300	0.72					0.72	356	0.72039336	0.97785645	0.97404855	1.64614204	0.43738631
87_4	5/5/12	14	1200	1800	0.68	15	1000	1500	0.81	0.745	418	0.68040019	0.97405043	0.95867147	1.62015478	0.45983261
87_5	7/11/12	24	3600	5600	0.64	14	1400	2200	0.75	0.695	485	0.63967404	0.96995413	0.9428435	1.59340552	0.43617271
87_6	10/3/12	18	1800	2900	0.68	12	980	1600	0.75	0.715	569	0.59204072	0.96484279	0.92408558	1.56170463	0.45783306
87_7	10/31/12	21	2900	5000	0.67	19	2000	3400	0.76	0.715	597	0.57696463	0.96314501	0.91808729	1.55156751	0.46082429
87_8	12/27/12	15	1500	2800	0.89	19	1600	3000	0.74	0.815	654	0.54744985	0.95969803	0.90624986	1.53156227	0.53213638
87_9	2/25/13	15	1100	2000	0.53					0.53	714	0.5180113	0.95608295	0.89430733	1.51137939	0.35067304
87_10	5/13/13	2000	4000	6000	0.688	1900	3800	5700	0.678	0.683	791	0.48253929	0.95146355	0.87971523	1.48671874	0.45940095
87_11	6/21/13	2100	4100	6200	0.554	1800	3800	5600	0.65	0.602	830	0.46551037	0.94913238	0.87262301	1.47473288	0.40820952
87_12	8/21/13	1800	3900	5700	0.544	1800	4000	5800	0.636	0.59	891	0.44007244	0.94549763	0.86191174	1.45663084	0.40504429
87_13	10/7/13	1600	3500	5100	0.506	1300	2900	4200	0.458	0.482	938	0.42142488	0.94270658	0.85396271	1.44319698	0.33398074
87_14	12/11/13	1700	3900	5600	0.6	3700	8700	12400	0.622	0.611	1003	0.39693065	0.93886019	0.8433832	1.42531761	0.42867639
87_15	2/13/14	650	1700	2350	0.33					0.33	1067	0.37420466	0.93508831	0.83341168	1.40846574	0.2342975
87_16	5/14/15	1400	5400	6800	0.39	960	3400	4360	0.48	0.435	1522	0.24607669	0.90870588	0.77327029	1.30682679	0.33286737
87_17	6/11/15	940	3400	4340	0.34	1400	4900	6300	0.43	0.385	1550	0.23981044	0.90710688	0.77009233	1.30145603	0.29582252
87_18	8/6/15	3900	14000	17900	0.32	1600	6300	7900	0.41	0.365	1606	0.22775259	0.9039173	0.76389074	1.29097534	0.28273197
87_19	10/13/15	830	3400	4230	0.34	550	2300	2850	0.39	0.365	1674	0.21392303	0.90005933	0.7566248	1.2786959	0.28544707
87_20	12/13/15	720	3300	4020	0.3	800	3700	4500	0.39	0.345	1735	0.20223315	0.89661251	0.75034064	1.26807568	0.27206578
87_21	1/21/16	1100	4900	6000	0.32	340	1400	1740	0.3	0.31	1774	0.1950963	0.89441572	0.74643319	1.2614721	0.24574463
87_22	5/3/16	650	3200	3850	0.35	580	3100	3680	0.45	0.4	1877	0.17743539	0.8886398	0.73650336	1.24469068	0.32136498
87_23	6/17/16	950	5100	6050	0.37	600	3100	3700	0.43	0.4	1922	0.17023013	0.88612806	0.73233316	1.23764304	0.32319496
87_24	8/8/16	1300	6800	8100	0.29	1100	6300	7400	0.34	0.315	1974	0.16226767	0.88323445	0.72763433	1.22970201	0.25615962
87_25	10/9/16	680	4100	4780	0.3	440	2300	2740	0.34	0.32	2036	0.15325926	0.87979672	0.72219252	1.22050535	0.26218648
87_26	12/6/16	780	4400	5180	0.32	160	1000	1160	0.34	0.33	2094	0.14528534	0.87659289	0.7172523	1.21215639	0.2722421
87_27	1/13/17	470	2900	3370	0.33	380	2500	2880	0.24	0.285	2132	0.14028736	0.87450016	0.71409097	1.20681373	0.23615906
87_28	5/11/17	410	2800	3210	0.21	290	2000	2290	0.27	0.24	2250	0.12583705	0.86803347	0.70463182	1.19082777	0.20154048
87_29	6/12/17	1300	9200	10500	0.24	900	6300	7200	0.28	0.26	2282	0.12218159	0.86628805	0.70215498	1.18664191	0.21910569
87_30	8/2/17	1400	10000	11400	0.23	220	1700	1920	0.27	0.25	2333	0.11657393	0.86351354	0.69828105	1.18009498	0.21184736
87_31	10/10/17	440	3300	3740	0.19	300	2300	2600	0.29	0.24	2402	0.10939452	0.85977393	0.69317762	1.17147019	0.20487077
87_32	12/10/17	320	2700	3020	0.2	280	2100	2380	0.25	0.225	2463	0.10341663	0.85648138	0.68879124	1.16405719	0.19328947
87_33	1/10/18	100	1000	1100	0.2	130	1100	1230	0.26	0.23	2494	0.10050502	0.85481296	0.68660515	1.16036271	0.19821388
87_34	5/6/18	160	1600	1760	0.19	220	2200	2420	0.23	0.21	2610	0.09031874	0.8485986	0.67866785	1.14694867	0.18309451
87_35	6/11/18	270	2700	2970	0.2	180	1700	1880	0.24	0.22	2646	0.08737251	0.8466792	0.67627859	1.14291082	0.19249096
87_36	8/3/18	730	7100	7830	0.25	300	3100	3400	0.32	0.285	2699	0.083209	0.84386133	0.67282133	1.13706806	0.25064463
87_37	10/10/18	320	3400	3720	0.17	120	1300	1420	0.23	0.2	2767	0.07815639	0.84025967	0.66848625	1.12974176	0.17703161
87_38	11/3/18	510	5100	5610	0.19	340	3600	3940	0.22	0.205	2791	0.07644736	0.83899217	0.66698216	1.12719985	0.1818666
87_39	12/10/18	140	1500	1640	0.17	120	1400	1520	0.21	0.19	2828	0.07388552	0.83704186	0.66468895	1.12332433	0.16914082
87_40	5/1/19	95	1400	1495	0.19	80	1200	1280	0.19	0.19	2970	0.0648257	0.82959886	0.65616071	1.10891161	0.17133918
87_41	6/7/19	270	3700	3970	0.16	120	1600	1720	0.19	0.175	3007	0.06265332	0.82767038	0.65400557	1.10526942	0.15833244
87_42	8/3/19	360	5200	5560	0.23	230	3100	3330	0.29	0.26	3064	0.05944827	0.82470824	0.65073632	1.09974439	0.23641857
87_43	10/10/19	300	4500	4800	0.15	150	2300	2450	0.12	0.135	3132	0.05583846	0.82118833	0.64691339	1.09328363	0.12348122
87_44	11/16/19	250	3900	4150	0.25	220	3200	3420	0.28	0.265	3169	0.05396725	0.8192794	0.64486706	1.08982534	0.24315823
87_45	12/4/19	87	1400	1487	0.18	140	2200	2340	0.17	0.175	3187	0.05307974	0.81835234	0.64387989	1.08815701	0.16082238
87_46	8/2/20	180	3200	3380	0.18	150	2800	2950	0.22	0.2	3429	0.04247253	0.80598987	0.63109835	1.06655621	0.18751942
87_47	10/7/20	220	4400	4620	0.14	96	1900	1996	0.14	0.14	3495	0.03996709	0.80265082	0.62775812	1.06091121	0.13196203
87_48	11/17/20	160	3400	3560	0.26	93	2000	2093	0.24	0.25	3536	0.03848567	0.80058353	0.62571183	1.05745298	0.23641713
87_49	12/6/20	180	4000	4180	0.24	170	3500	3670	0.24	0.24	3555	0.0378179	0.79962733	0.62477077	1.0558626	0.2273023
87_50	5/13/21	47	1200	1247	0.15	50	1200	1250	0.19	0.17	3713	0.0326952	0.79171983	0.61711301	1.04292099	0.16300372
87_51	6/4/21	44	1400	1444	0.18	38	1000	1038	0.17	0.175	3735	0.03203923	0.79062501	0.61606937	1.04115724	0.1680822
87_52	8/29/21	69	1900	1969	0.14	110	3000	3110	0.12	0.13	3821	0.02959885	0.78635975	0.61203938	1.03434654	0.12568322
87_53	10/22/21	78	2400	2478	0.14	52	1400	1452	0.14	0.14	3875	0.02816244	0.78369333	0.60954782	1.03013581	0.13590441
87_54	11/18/21	33	970	1003	0.14	58	1500	1558	0.14	0.14	3902	0.02747059	0.78236351	0.60831285	1.02804872	0.13618032
87_55	12/18/21	41	1200	1241	0.15	45	1500	1545	0.15	0.15	3932	0.02672178	0.78088858	0.6069489	1.02574364	0.14623537
87_56	5/13/22	80	2400	2480	0.17	29	1000	1029	0.18	0.175	4078	0.02335893	0.7737502	0.600429	1.01472502	0.17246052
87_57	6/11/22	83	2800	2883	0.15	16	570	586	0.13	0.14	4107	0.02274314	0.77234009	0.59915618	1.01257395	0.13826151
87_58	8/9/22	45	1600	1645	0.17	31	1200	1231	0.17	0.17	4166	0.02153999	0.76947917	0.59658819	1.00823404	0.16861164
87_59	10/13/22	70	2700	2770	0.14	50	1600	1650	0.13	0.135	4231	0.02028803	0.76633957	0.59379137	1.00350741	0.13452815
87_60	11/8/22	71	3300	3371	0.11	50	1500	1550	0.14	0.125	4257	0.01980787	0.76508733	0.59268181	1.00163226	0.1247963
87_61	12/21/22	13	700	713	0.14	24	880	904	0.14	0.14	4300	0.01903856	0.76302079	0.59085795	0.99854994	0.1402033
87_62	5/30/23	43	2000	2043	0.14				0.06	0.1	4460	0.01642935	0.75538026	0.5841879	0.98727755	0.10128864
87_63	6/27/23	51	2000	2051	0.11	26	1400	1426	0.13	0.12	4488	0.01601098	0.75405106	0.58303861	0.98533524	0.12178596
87_64	8/15/23	24	1200	1224	0.12	22	1300	1322	0.11	0.115	4537	0.01530431	0.75173057	0.58103958	0.9819569	0.11711308
87_65	10/13/23	20	1400	1420	0.12	15	560	575	0.09	0.105	4596	0.01449469	0.748946	0.57865271	0.97792309	0.10737041
87_66	11/6/23	29	2000	2029	0.13	12	920	932	0.12	0.125	4620	0.01417773	0.74781624	0.57768791	0.97629256	0.12803539
87_67	12/1/23	21	1400	1421	0.14	9.5	130	130	0.12	0.13	4645	0.01385494	0.74664122	0.57668659	0.97460033	0.13338801
87_68	5/21/24	41	3100	3141	0.12	12	630	642	0.11	0.115	4817	0.0118247	0.738607	0.5698951	0.96312273	0.11940327
87_69	6/12/24	38	2200	2238	0.1	24	1600	1624	0.11	0.105	4839	0.01158746	0.73758562	0.56903821	0.96167458	0.10918454
87_70	8/23/24	10	700	710	0.11	5.6	52	52	0.1	0.105	4911	0.01084381	0.7342528	0.56625162	0.95696523	0.10972185

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
88_1	11/30/11	5500	7000	12500	1.04	6200	7800	14000	1.03	1.035	261	0.78628101	0.98371712	0.99906784	1.03403521	1.00093303
88_2	1/17/12	4900	6500	11400	0.95	3000	4100	7100	0.96	0.955	309	0.75226993	0.98075156	0.9861987	1.02071565	0.93561806
88_3	2/28/12	3900	5300	9200	0.77	3500	4800	8300	0.8	0.785	351	0.72371926	0.97816403	0.97532048	1.0094567	0.77764604
88_4	5/5/12	16	1300	1900	0.86	16	1200	1800	0.93	0.895	418	0.68040019	0.97405043	0.95867147	0.99222497	0.90201318
88_5	7/5/12	18	1300	2000	0.72	21	2900	4500	0.95	0.835	479	0.64321955	0.97032026	0.94422874	0.97727675	0.85441509
88_6	9/13/12	20	2200	3700	0.72	32	3200	5200	0.77	0.745	549	0.60304994	0.96605733	0.92844643	0.96094205	0.77528088
88_7	10/31/12	25	3500	5800	0.66	19	2100	3600	0.7	0.68	597	0.57696463	0.96314501	0.91808729	0.95022034	0.71562349
88_8	12/27/12	19	1900	3500	0.48	25	3600	6500	0.75	0.615	654	0.54744985	0.95969803	0.90624986	0.93796861	0.65567226
88_9	5/13/13	2100	4200	6300	0.6	830	1700	2530	0.534	0.567	791	0.48253929	0.95146355	0.87971523	0.91050527	0.62273116
88_10	6/21/13	1600	3400	5000	0.646	510	1100	1610	0.506	0.576	830	0.46551037	0.94913238	0.87262301	0.90316481	0.63775735
88_11	8/7/13	2300	4900	7200	0.534	1400	3000	4400	0.392	0.463	877	0.44578491	0.9463306	0.86432994	0.89458149	0.51756045
88_12	10/7/13	2200	5100	7300	0.494	1200	2800	4000	0.296	0.395	938	0.42142488	0.94270658	0.85396271	0.8838514	0.4469077
88_13	12/13/13	1500	3700	5200	0.604	1200	3100	4300	0.324	0.464	1005	0.3962	0.93874209	0.84306504	0.87257231	0.53176109
88_14	5/14/15	2000	7400	9400	0.44	860	3300	4160	0.33	0.385	1522	0.24607669	0.90870588	0.77327029	0.80033475	0.48104871
88_15	6/10/15	1300	4700	6000	0.38	1100	4200	5300	0.32	0.35	1549	0.24003146	0.90716394	0.77020492	0.7971621	0.4390575
88_16	8/6/15	2400	9200	11600	0.32	190	770	960	0.23	0.275	1606	0.22775259	0.9039173	0.76389074	0.79062691	0.34782525
88_17	10/13/15	1000	4000	5000	0.36	49	230	279	0.22	0.29	1674	0.21392303	0.90005933	0.7566248	0.78310666	0.37031992
88_18	12/10/15	1600	7000	8600	0.31	78	370	448	0.2	0.255	1732	0.20279283	0.89678171	0.75064471	0.77691728	0.32822027
88_19	2/2/16	1100	4900	6000	0.34	48	190	238	0.19	0.265	1786	0.19295143	0.89374087	0.74524765	0.77133132	0.34356183
88_20	5/3/16	1800	9300	11100	0.38	43	260	303	0.2	0.29	1877	0.17743539	0.8886398	0.73650336	0.76228098	0.38043715
88_21	6/16/16	1100	5700	6800	0.4	38	230	268	0.19	0.295	1921	0.17038702	0.8861838	0.73242477	0.75805964	0.38915144
88_22	8/9/16	980	5300	6280	0.32	63	300	363	0.2	0.26	1975	0.16211825	0.88317889	0.72754519	0.75300927	0.34528127
88_23	10/11/16	1200	6400	7600	0.31	110	650	760	0.16	0.235	2038	0.15297715	0.87968605	0.72201979	0.74729048	0.31446941
88_24	12/9/16	1000	5800	6800	0.3	130	900	1030	0.15	0.225	2097	0.14488437	0.87642749	0.71700059	0.74209561	0.30319543
88_25	2/4/17	1000	6400	7400	0.22	100	700	800	0.15	0.185	2154	0.13747277	0.87329086	0.71228707	0.73721712	0.25094371
88_26	5/12/17	650	4400	5050	0.3	84	640	724	0.14	0.22	2251	0.12572117	0.86797888	0.70455387	0.72921325	0.30169501
88_27	6/13/17	880	6200	7080	0.23	57	420	477	0.16	0.195	2283	0.12206909	0.86623357	0.70207816	0.72665089	0.26835445
88_28	8/4/17	1200	9000	10200	0.25	30	290	320	0.14	0.195	2335	0.11635935	0.86340492	0.69813093	0.72256551	0.26987172
88_29	10/10/17	460	3300	3760	0.21	29	250	279	0.13	0.17	2402	0.10939452	0.85977393	0.69317762	0.71743884	0.236954
88_30	12/7/17	630	5300	5930	0.18	220	2000	2220	0.17	0.175	2460	0.10370284	0.85664301	0.68900431	0.71311946	0.24540068
88_31	2/10/18	500	4300	4800	0.16	83	760	843	0.1	0.13	2525	0.09767538	0.85314778	0.6844471	0.70840275	0.18351143
88_32	5/6/18	490	4600	5090	0.17	27	330	357	0.11	0.14	2610	0.09031874	0.8485986	0.67866785	0.70242123	0.19931061
88_33	6/4/18	330	3300	3630	0.18	62	610	672	0.13	0.155	2639	0.08793776	0.84705208	0.67674053	0.70042645	0.22129376
88_34	8/16/18	490	4700	5190	0.24	70	610	680	0.14	0.19	2712	0.08221843	0.84317159	0.67198398	0.69550342	0.27318342
88_35	10/9/18	110	1200	1310	0.13	160	1700	1860	0.15	0.14	2766	0.07822843	0.84031253	0.66854921	0.69194843	0.20232722
88_36	11/3/18	420	4800	5220	0.21	35	350	385	0.14	0.175	2791	0.07644736	0.83899217	0.66698216	0.69032654	0.25350322
88_37	12/6/18	310	3500	3810	0.15	150	1700	1850	0.17	0.16	2824	0.07415828	0.83725248	0.66493539	0.68820813	0.23248781
88_38	5/2/19	370	4800	5170	0.14	23	250	273	0.1	0.12	2971	0.06476601	0.82954668	0.65610212	0.67906569	0.17671339
88_39	6/6/19	300	3900	4200	0.14	18	260	278	0.1	0.12	3006	0.06271106	0.82772244	0.65406347	0.67695569	0.17726419
88_40	8/10/19	460	6200	6660	0.21	24	300	324	0.15	0.18	3071	0.05906615	0.8243452	0.65033897	0.67310084	0.26741907
88_41	10/11/19	380	5600	5980	0.12	300	4400	4700	0.15	0.135	3133	0.05578705	0.82113668	0.64685778	0.6694978	0.20164368
88_42	11/13/19	360	5700	6060	0.21	17	280	297	0.12	0.165	3166	0.05411661	0.81943402	0.64503212	0.66760824	0.24715093
88_43	12/3/19	140	2200	2340	0.15	190	3000	3190	0.15	0.15	3186	0.05312866	0.81840382	0.64393459	0.6664723	0.22508562
88_44	8/2/20	300	5600	5900	0.17	32	540	572	0.12	0.145	3429	0.04247253	0.80598987	0.63109835	0.65318679	0.22198857
88_45	10/6/20	190	3900	4090	0.11	120	2400	2520	0.13	0.12	3494	0.04000393	0.80270131	0.6278083	0.64978159	0.18467744
88_46	11/18/20	240	4900	5140	0.17	20	420	440	0.12	0.145	3537	0.03845023	0.80053318	0.62566218	0.64756036	0.22391735
88_47	12/9/20	220	4700	4920	0.18	140	2700	2840	0.13	0.155	3558	0.03771353	0.79947645	0.62462259	0.64648438	0.23975831
88_48	5/13/21	170	4200	4370	0.18	15	470	485	0.14	0.16	3713	0.0326952	0.79171983	0.61711301	0.63871197	0.25050415
88_49	6/3/21	77	1900	1977	0.16	110	2700	2810	0.22	0.19	3734	0.03206876	0.79067474	0.61611669	0.63768078	0.29795472
88_50	8/28/21	33	1200	1233	0.12	75	2200	2275	0.18	0.15	3820	0.02962613	0.78640921	0.61208579	0.6335088	0.23677651
88_51	10/22/21	140	3500	3640	0.17	40	1200	1240	0.13	0.15	3875	0.02816244	0.78369333	0.60954782	0.63088199	0.23776237
88_52	11/18/21	89	2400	2489	0.17	50	1400	1450	0.13	0.15	3902	0.02747059	0.78236351	0.60831285	0.6296038	0.23824507
88_53	12/18/21	77	2100	2177	0.16				0.2	0.18	3932	0.02672178	0.78088858	0.6069489	0.62819211	0.28653655
88_54	5/13/22	86	2900	2986	0.16	82	2600	2682	0.15	0.155	4078	0.02335893	0.7737502	0.600429	0.62144402	0.24941909
88_55	6/6/22	100	3500	3600	0.15	57	2100	2157	0.15	0.15	4102	0.02284814	0.77258303	0.59937513	0.62035326	0.24179771
88_56	8/8/22	100	3700	3800	0.11	75	3200	3275	0.12	0.115	4165	0.02155984	0.76952757	0.59663148	0.61751358	0.18623072
88_57	10/13/22	110	4500	4610	0.16	67	2500	2567	0.2	0.18	4231	0.02028803	0.76633957	0.59379137	0.61457406	0.29288577
88_58	11/8/22	41	1400	1441	0.15	69	2800	2869	0.13	0.14	4257	0.01980787	0.76508733	0.59268181	0.61342568	0.22822651
88_59	12/21/22	130	5400	5530	0.14	12	510	522	0.18	0.16	4300	0.01903856	0.76302079	0.59085795	0.61153798	0.26163543
88_60	5/16/23	60	3200	3260	0.15	51	2400	2451	0.13	0.14	4446	0.01664262	0.75604574	0.5847645	0.60523125	0.23131654
88_61	6/8/23	98	4300	4398	0.13	26	1500	1526	0.15	0.14	4469	0.0162937	0.75495276	0.58381792	0.60425155	0.23169159
88_62	8/15/23	9.5	380	389.5	0.14	70	3200	3270	0.14	0.14	4537	0.01530431	0.75173057	0.58103958	0.60137597	0.23279946
88_63	10/13/23	110	5500	5610	0.09	46	2500	2546	0.14	0.115	4596	0.01449469	0.748946	0.57865271	0.59890556	0.19201692
88_64	11/6/23	51	3100	3151	0.16	69	2900	2969	0.17	0.165	4620	0.01417773	0.74781624	0.57768791	0.59790698	0.27596266
88_65	12/1/23	59	3700	3759	0.15	13	950	963	0.16	0.155	4645	0.01385494	0.74664122	0.57668659	0.59687062	0.25968777
88_66	5/17/24	37	2500	2537	0.15	36	1800	1836	0.18	0.165	4813	0.01186835	0.73879286	0.57005118	0.59000297	0.27965961
88_67	6/5/24	56	3400	3456	0.13	9.6	1200	1209.6	0.14	0.135	4832	0.01166242	0.73791045	0.56931058	0.58923645	0.22911006
88_68	8/24/24	40	3200	3240	0.14	19	1000	1019	0.16	0.15	4912	0.01083383	0.73420661	0.5662131	0.58603056	0.25595935

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
89_1	11/30/11	16000	20000	36000	1.07	2500	3200	5700	1.34	1.205	261	0.78628101	0.98371712	0.99906784	1.20387674	1.00093303
89_2	1/17/12	5300	6900	12200	0.98	3500	4800	8300	1.13	1.055	309	0.75226993	0.98075156	0.9861987	1.18836943	0.88777107
89_3	2/29/12	2400	3300	5700	0.98	1400	2000	3400	0.88	0.93	352	0.72305285	0.97810251	0.97506571	1.17495418	0.79152023
89_4	4/30/12	17	1400	2000	0.88	13	1200	1800	1.01	0.945	413	0.68354144	0.97435682	0.95988496	1.15666138	0.81700662
89_5	5/8/12	21	1700	2500	0.79	12	1000	1500	1.05	0.92	421	0.67852237	0.97386664	0.95794556	1.1543244	0.79700299
89_6	6/5/12	32	4000	6100	0.79	13	1000	1500	1.05	0.92	449	0.66124407	0.97215298	0.95124902	1.14625507	0.80261368
89_7	7/5/12	28	4400	6900	0.82	12	970	1500	1.08	0.95	479	0.64321955	0.97032026	0.94422874	1.13779563	0.83494784
89_8	8/9/12	24	3700	5900	0.72	21	2900	4700	1.13	0.925	514	0.62281097	0.96818645	0.93623492	1.12816308	0.81991692
89_9	8/28/12	26	4000	6500	1.04	21	3200	5200	0.9	0.97	533	0.61200453	0.96703006	0.93198182	1.12303809	0.8637285
89_10	10/23/12	22	2100	3700	1.14	37	8500	14000	1.03	1.085	589	0.58123248	0.96362978	0.91978851	1.10834515	0.97893693
89_11	11/12/12	22	3100	5200	0.68	19	2500	4400	0.96	0.82	609	0.57062155	0.9624183	0.91555408	1.10324267	0.74326349
89_12	12/6/12	20	2200	4000	0.87	18	1700	2900	0.81	0.84	633	0.55814383	0.96096653	0.91055388	1.09721742	0.76557297
89_13	1/9/13	16	1300	2300	0.69	14	1300	2400	0.91	0.8	667	0.5409327	0.9589136	0.90361819	1.08885991	0.73471343
89_14	1/30/13	20	1500	3000	0.58	14	1100	2100	0.79	0.685	688	0.53056848	0.95764781	0.89941898	1.08379988	0.6320355
89_15	2/20/13	30	4300	7900	0.62	14	1000	1900	1.01	0.815	709	0.52040284	0.95638369	0.89528293	1.07881593	0.75545788
89_16	4/25/13	4500	9000	13500	0.626	1800	3700	5500	0.808	0.717	773	0.49060753	0.95254141	0.88305508	1.06408137	0.67382065
89_17	6/17/13	1600	3500	5100	0.636	650	1400	2050	0.646	0.641	826	0.46722891	0.94937121	0.87334148	1.05237649	0.60909761
89_18	6/27/13	3000	6200	9200	0.534	1000	2100	3100	0.734	0.634	836	0.46294442	0.94877424	0.87154907	1.05021663	0.60368498
89_19	7/10/13	320	680	1000	0.444	2600	5300	7900	0.722	0.583	849	0.45743327	0.94799875	0.86923764	1.04743136	0.55659972
89_20	8/7/13	3400	7300	10700	0.536	1800	3700	5500	0.634	0.585	877	0.44578491	0.9463306	0.86432994	1.04151758	0.56168039
89_21	9/12/13	4200	9200	13400	0.656	2400	5400	7800	0.75	0.703	913	0.43124324	0.94419015	0.8581588	1.03408135	0.67983046
89_22	10/7/13	5300	12000	17300	0.412	1500	3400	4900	0.706	0.559	938	0.42142488	0.94270658	0.85396271	1.02902506	0.54323264
89_23	12/11/13	3200	7700	10900	0.682	1200	3000	4200	0.724	0.703	1003	0.39693065	0.93886019	0.8433832	1.01627675	0.69174071
89_24	1/7/14	2800	7000	9800	0.59	2400	5800	8200	0.644	0.617	1030	0.38717949	0.93726708	0.83912407	1.0111445	0.61019963
89_25	2/13/14	1500	3900	5400	0.4					0.4	1067	0.37420466	0.93508831	0.83341168	1.00426108	0.3983028
89_26	5/2/15	900	3400	4300	0.47	1100	4000	5100	0.6	0.535	1510	0.2488121	0.90939203	0.77464847	0.93345141	0.57314178
89_27	5/14/15	680	2500	3180	0.47	500	1800	2300	0.54	0.505	1522	0.24607669	0.90870588	0.77327029	0.9317907	0.5419672
89_28	6/11/15	1100	4100	5200	0.39	880	3200	4080	0.48	0.435	1550	0.23981044	0.90710688	0.77009233	0.92796125	0.46876957
89_29	7/4/15	1400	5200	6600	0.43	950	3700	4650	0.5	0.465	1573	0.23478272	0.90579551	0.76752072	0.92486246	0.50277746
89_30	8/5/15	1400	5000	6400	0.4	1600	6100	7700	0.47	0.435	1605	0.2279625	0.90397416	0.76399972	0.92061966	0.47250783
89_31	9/16/15	2600	11000	13600	0.4	1100	4500	5600	0.38	0.39	1647	0.21931071	0.9015892	0.75947605	0.91516864	0.42615096
89_32	10/13/15	680	2900	3580	0.39	400	1700	2100	0.43	0.41	1674	0.21392303	0.90005933	0.7566248	0.91173288	0.44969312
89_33	12/13/15	1100	4900	6000	0.36	670	3000	3670	0.42	0.39	1735	0.20223315	0.89661251	0.75034064	0.90416047	0.43133936
89_34	1/22/16	1000	4400	5400	0.36	840	4000	4840	0.46	0.41	1775	0.19491665	0.89435946	0.7463341	0.89933259	0.45589363
89_35	2/4/16	1300	6200	7500	0.35	1100	5200	6300	0.4	0.375	1788	0.19259625	0.89362844	0.74505081	0.89778623	0.41769409
89_36	4/29/16	950	4800	5750	0.43	560	2800	3360	0.5	0.465	1873	0.17809044	0.88886341	0.73687885	0.88793901	0.52368461
89_37	5/20/16	910	4600	5510	0.4	310	1700	2010	0.46	0.43	1894	0.17467824	0.88769009	0.73491636	0.88557421	0.48556066
89_38	6/17/16	1000	5600	6600	0.38	680	3500	4180	0.55	0.465	1922	0.17023013	0.88612806	0.73233316	0.88246146	0.52693519
89_39	7/15/16	790	4400	5190	0.38	430	2100	2530	0.42	0.4	1950	0.16589529	0.88456879	0.72978736	0.87939377	0.45485881
89_40	8/8/16	310	1600	1910	0.37	730	3900	4630	0.37	0.37	1974	0.16226767	0.88323445	0.72763433	0.87679936	0.42198936
89_41	9/3/16	1000	5800	6800	0.35	590	3300	3890	0.42	0.385	2000	0.15842722	0.88179119	0.72533148	0.87402443	0.44049112
89_42	10/11/16	670	4000	4670	0.36	700	4400	5100	0.44	0.4	2038	0.15297715	0.87968605	0.72201979	0.87003384	0.45975223
89_43	12/8/16	320	2100	2420	0.33	470	2700	3170	0.41	0.37	2096	0.1450179	0.87648262	0.71708445	0.86408677	0.42819774
89_44	1/13/17	590	3800	4390	0.29	460	3000	3460	0.34	0.315	2132	0.14028736	0.87450016	0.71409097	0.86047962	0.36607491
89_45	2/4/17	830	5900	6730	0.31	530	3400	3930	0.31	0.31	2154	0.13747277	0.87329086	0.71228707	0.85830592	0.36117658
89_46	4/24/17	360	2300	2660	0.31	380	2700	3080	0.36	0.335	2233	0.12782328	0.86896216	0.70596253	0.85068485	0.39380036
89_47	5/11/17	550	3600	4150	0.27	660	4600	5260	0.29	0.28	2250	0.12583705	0.86803347	0.70463182	0.84908134	0.32976817
89_48	6/13/17	140	1000	1140	0.26	550	4000	4550	0.28	0.27	2283	0.12206909	0.86623357	0.70207816	0.84600418	0.31914736
89_49	7/20/17	330	2600	2930	0.25	300	2100	2400	0.29	0.27	2320	0.11797841	0.86421992	0.69926011	0.84260843	0.32043354
89_50	8/4/17	450	3600	4050	0.23	280	2000	2280	0.28	0.255	2335	0.11635935	0.86340492	0.69813093	0.84124777	0.30312116
89_51	9/2/17	310	2400	2710	0.28	300	2500	2800	0.3	0.29	2364	0.11329189	0.86183142	0.69596906	0.83864272	0.34579684
89_52	10/12/17	420	3300	3720	0.24	620	4800	5420	0.27	0.255	2404	0.10919315	0.85966577	0.69303198	0.83510354	0.30535136
89_53	12/9/17	160	1400	1560	0.24	160	1500	1660	0.28	0.26	2462	0.10351195	0.85653526	0.68886223	0.83007899	0.3132232
89_54	1/10/18	320	2900	3220	0.25	320	2800	3120	0.22	0.235	2494	0.10050502	0.85481296	0.68660515	0.82735921	0.28403624
89_55	2/14/18	360	3300	3660	0.23	190	1600	1790	0.24	0.235	2529	0.09731612	0.85293315	0.68417065	0.82442563	0.28504694
89_56	4/28/18	350	3200	3550	0.33	190	1800	1990	0.35	0.34	2602	0.09098683	0.84902572	0.67920342	0.81844012	0.41542441
89_57	5/15/18	180	1800	1980	0.19	380	3700	4080	0.23	0.21	2619	0.089573	0.84811834	0.67806736	0.81707117	0.25701555
89_58	6/11/18	140	1400	1540	0.22	170	1800	1970	0.27	0.245	2646	0.08737251	0.8466792	0.67627859	0.8149157	0.30064459
89_59	7/18/18	150	1500	1650	0.21	560	5600	6160	0.34	0.275	2683	0.08444456	0.84471102	0.67385762	0.81199844	0.3386706
89_60	8/3/18	190	1900	2090	0.26	330	3300	3630	0.38	0.32	2699	0.083209	0.84386133	0.67282133	0.81074971	0.39469641
89_61	9/2/18	240	2600	2840	0.27	77	730	807	0.28	0.275	2729	0.08094085	0.84227046	0.67089517	0.80842868	0.34016606
89_62	10/10/18	120	1300	1420	0.19	81	930	1011	0.25	0.22	2767	0.07815639	0.84025967	0.66848625	0.80552593	0.27311349
89_63	12/10/18	240	2600	2840	0.2	150	1900	2050	0.23	0.215	2828	0.07388552	0.83704186	0.66468895	0.80095018	0.26843118
89_64	1/20/19	230	2600	2830	0.15	73	810	883	0.34	0.245	2869	0.07114688	0.83488599	0.66218308	0.79793062	0.30704424
89_65	2/10/19	170	2100	2270	0.25	260	3100	3360	0.33	0.29	2890	0.06978371	0.83378392	0.66091356	0.79640084	0.36413824
89_66	4/28/19	190	2400	2590	0.27	180	2200	2380	0.31	0.29	2967	0.06500511	0.82975542	0.65633662	0.79088563	0.36667754
89_67	5/17/19	100	1400	1500	0.18	200	2600	2800	0.18	0.18	2986	0.0638772	0.82876437	0.65522551	0.78954673	0.22797891
89_68	6/6/19	150	2000	2150	0.19	320	4500	4820	0.21	0.2	3006	0.06271106	0.82772244	0.65406347	0.78814648	0.25375993
89_69	7/14/19	160	2500	2660	0.24	90	1300	1390	0.22	0.23	3044	0.06055374	0.82574638	0.65187655	0.78551124	0.29280294
89_70	8/3/19	140	2000	2140	0.24	420	5900	6320	0.29	0.265	3064	0.05944827	0.82470824	0.65073632	0.78413727	0.33795103
89_71	9/3/19	190	2600	2790	0.24	76	1200	1276	0.21	0.225	3095	0.05777455	0.82310171	0.64898334	0.78202493	0.28771461
89_72	10/10/19	300	4300	4600	0.17	170	2700	2870	0.21	0.19	3132	0.05583846	0.82118833	0.64691339	0.77953064	0.24373641
89_73	12/4/19	150	2500	2650	0.15	120	2000	2120	0.17	0.16	3187	0.05307974	0.81835234	0.64387989	0.77587527	0.20621871
89_74	1/26/20	170	2900	3070	0.26	180	2700	2880	0.25	0.255	3240	0.05055036	0.81562874	0.641004	0.77240982	0.33013563
89_75	2/9/20	210	3500	3710	0.24	130	2000	2130	0.26	0.25	3254	0.04990259	0.81491082	0.64025183	0.77150346	0.32404262
89_76	7/12/20	100	1900	2000	0.21	150	2800	2950	0.21	0.21	3408	0.0433022	0.80705521	0.6321735	0.76176907	0.2756741
89_77	8/2/20	110	2000	2110	0.2	380	7100	7480	0.26	0.23	3429	0.04247253	0.80598987	0.63109835	0.76047351	0.30244314
89_78	9/5/20	72	1400	1472	0.19	140	2800	2940	0.21	0.2	3463	0.04116284	0.80426803	0.62937037	0.7583913	0.26371611
89_79	10/7/20	130	2700	2830	0.13	160	3100	3260	0.14	0.135	3495	0.03996709	0.80265082	0.62775812	0.75644853	0.17846555
89_80	11/17/20	140	2900	3040	0.22	230	4700	4930	0.25	0.235	3536	0.03848567	0.80058353	0.62571183	0.75398275	0.31167822
89_81	12/9/20	150	3100	3250	0.22	130	2900	3030	0.25	0.235	3558	0.03771353	0.79947645	0.62462259	0.75267022	0.31222173
89_82	1/27/21	140	3100	3240	0.23	44	970	1014	0.25	0.24	3607	0.03604898	0.79701618	0.62221799	0.74977268	0.32009702
89_83	2/14/21	74	1800	1874	0.22	62	1200	1262	0.25	0.235	3625	0.03545614	0.79611431	0.62134193	0.74871703	0.31387025
89_84	4/20/21	93	2100	2193	0.21	150	3800	3950	0.23	0.22	3690	0.03339535	0.79286604	0.61820981	0.74494283	0.29532468
89_85	5/13/21	180	4500	4680	0.21	36	830	866	0.29	0.25	3713	0.0326952	0.79171983	0.61711301	0.74362118	0.33619268
89_86	6/3/21	110	2900	3010	0.21	140	3600	3740	0.27	0.24	3734	0.03206876	0.79067474	0.61611669	0.74242062	0.32326689
89_87	7/19/21	91	2400	2491	0.21	82	2700	2782	0.25	0.23	3780	0.03073819	0.78839031	0.61395094	0.73981088	0.31089026
89_88	8/29/21	40	830	870	0.15	120	3100	3220	0.24	0.195	3821	0.02959885	0.78635975	0.61203938	0.73750745	0.26440411
89_89	9/17/21	80	1900	1980	0.22	54	1100	1154	0.25	0.235	3840	0.02908528	0.78542053	0.61115938	0.73644705	0.31909965
89_90	10/22/21	51	1800	1851	0.2	62	1500	1562	0.22	0.21	3875	0.02816244	0.78369333	0.60954782	0.73450512	0.28590679
89_91	12/18/21				0.18				0.21	0.195	3932	0.02672178	0.78088858	0.6069489	0.73137342	0.26662166
89_92	1/14/22				0.21				0.22	0.215	3959	0.02606532	0.77956352	0.60572861	0.72990297	0.2945597
89_93	2/16/22	56	1900	1956	0.21	55	1700	1755	0.25	0.23	3992	0.02528484	0.77794706	0.60424629	0.72811678	0.31588339
89_94	4/27/22	60	2300	2360	0.19	31	1100	1131	0.21	0.2	4062	0.02370578	0.77452929	0.60113431	0.72436684	0.27610319
89_95	5/19/22	290	10000	10290	0.2	18	420	438	0.24	0.22	4084	0.02323017	0.77345824	0.60016508	0.72319892	0.30420399
89_96	6/11/22	28	910	938	0.15	50	2100	2150	0.16	0.155	4107	0.02274314	0.77234009	0.59915618	0.7219832	0.21468644
89_97	7/11/22	33	1200	1233	0.13	110	4200	4310	0.14	0.135	4137	0.0221232	0.77088405	0.59784686	0.72040547	0.18739447
89_98	8/9/22	40	1400	1440	0.18	7.3	170	170	0.19	0.185	4166	0.02153999	0.76947917	0.59658819	0.71888877	0.25734162
89_99	9/15/22	54	2400	2454	0.19	18	680	698	0.22	0.205	4203	0.02081816	0.76769044	0.59499209	0.71696546	0.2859273
89_100	10/13/22	53	2200	2253	0.18	27	1100	1127	0.2	0.19	4231	0.02028803	0.76633957	0.59379137	0.7155186	0.26554167
89_101	12/21/22	11	590	601	0.18	33	1400	1433	0.19	0.185	4300	0.01903856	0.76302079	0.59085795	0.71198383	0.25983736
89_102	1/17/23	32	1700	1732	0.18	94	4400	4494	0.25	0.215	4327	0.01857085	0.76172605	0.5897197	0.71061224	0.302556
89_103	2/7/23	15	950	965	0.18	51	2100	2151	0.21	0.195	4348	0.01821503	0.76072055	0.58883804	0.70954984	0.27482213
89_104	4/26/23	36	1800	1836	0.19	78	3500	3578	0.23	0.21	4426	0.01695209	0.75699745	0.58559048	0.70563653	0.29760364
89_105	5/19/23	41	1900	1941	0.19	89	3600	3689	0.19	0.19	4449	0.01659669	0.75590309	0.58464083	0.7044922	0.2696978
89_106	6/21/23	17	780	797	0.15	31	1300	1331	0.2	0.175	4482	0.01609973	0.75433569	0.58328445	0.70285776	0.24898352
89_107	7/31/23	16	860	876	0.17	67	3300	3367	0.2	0.185	4522	0.01551726	0.75244017	0.58164989	0.70088812	0.26395083
89_108	8/15/23	45	1900	1945	0.16	58	2300	2358	0.17	0.165	4537	0.01530431	0.75173057	0.58103958	0.7001527	0.23566288
89_109	9/14/23	46	2100	2146	0.17	19	990	1009	0.19	0.18	4567	0.01488714	0.75031339	0.57982322	0.69868698	0.2576261
89_110	10/13/23	43	1900	1943	0.14	95	5100	5195	0.19	0.165	4596	0.01449469	0.748946	0.57865271	0.69727652	0.23663496
89_111	12/1/23	30	2000	2030	0.2	44	1700	1744	0.2	0.2	4645	0.01385494	0.74664122	0.57668659	0.69490734	0.28780816
89_112	1/12/24	32	1500	1532	0.16	36	1800	1836	0.19	0.175	4687	0.01332911	0.74467135	0.57501268	0.69289028	0.25256524
89_113	2/1/24	160	9200	9360	0.19	8.6	470	470	0.19	0.19	4707	0.01308577	0.74373514	0.57421918	0.69193411	0.27459262
89_114	4/23/24	35	2400	2435	0.19	42	3600	3642	0.24	0.215	4789	0.01213368	0.73990898	0.57098945	0.68804229	0.31248079
89_115	5/21/24	45	2800	2845	0.19	20	2000	2020	0.19	0.19	4817	0.0118247	0.738607	0.5698951	0.6867236	0.27667609
89_116	6/12/24	67	3900	3967	0.17	43	3000	3043	0.17	0.17	4839	0.01158746	0.73758562	0.56903821	0.68569105	0.24792507
89_117	7/1/24	53	3700	3753	0.16	45	2200	2245	0.18	0.17	4858	0.0113864	0.73670466	0.56830024	0.68480179	0.24824702
89_118	8/23/24	9.4	480	480	0.17	32	2200	2232	0.16	0.165	4911	0.01084381	0.7342528	0.56625162	0.6823332	0.24181734
89_119	9/20/24	15	1300	1315	0.16	19	1300	1319	0.17	0.165	4939	0.01056768	0.73296077	0.56517513	0.68103603	0.24227793

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
90_1	11/15/11	2200	2700	4900	1.69	11000	14000	25000	1.71	1.7	246	0.79722161	0.9846457	1.00318809	1.70541976	0.99682204
90_2	1/20/12	2000	2600	4600	0.84	17000	22000	39000	0.89	0.865	312	0.75019376	0.98056651	0.98541003	1.67519706	0.51635716
90_3	4/29/12	15	1200	1700	0.32	18	1500	2100	0.68	0.5	412	0.68417143	0.97441811	0.96012821	1.63221796	0.30633164
90_4	5/8/12	15	820	1200	0.51	20	2100	3100	0.67	0.59	421	0.67852237	0.97386664	0.95794556	1.62850746	0.36229493
90_5	6/5/12	12	810	1300	0.33	18	1900	2900	0.77	0.55	449	0.66124407	0.97215298	0.95124902	1.61712334	0.34011011
90_6	7/11/12	5.1	88	130	0.19	28	3300	5300	0.76	0.475	485	0.63967404	0.96995413	0.9428435	1.60283396	0.2963501
90_7	8/9/12	4.3	79	130	0.19	37	5300	8500	0.82	0.505	514	0.62281097	0.96818645	0.93623492	1.59159936	0.3172909
90_8	8/28/12	18	2200	3500	0.31	18	2000	3200	0.59	0.45	533	0.61200453	0.96703006	0.93198182	1.58436909	0.28402473
90_9	10/18/12	5.1	73	130	0.29	25	2800	4800	1.07	0.68	584	0.5839159	0.96393289	0.92085686	1.56545666	0.43437804
90_10	11/13/12	3.3	55	87	0.18	17	1400	2400	0.66	0.42	610	0.57009612	0.96235777	0.91534399	1.55608478	0.26990817
90_11	12/6/12	18	1400	2300	0.57	9.9	590	1000	0.663	0.6165	633	0.55814383	0.96096653	0.91055388	1.54794159	0.39827084
90_12	12/19/12	4.5	54	110	0.1	22	2400	4200	0.11	0.105	646	0.55149937	0.96018107	0.90788174	1.54339896	0.06803166
90_13	4/24/13	710	1400	2110	0.236	1300	2700	4000	0.576	0.406	772	0.4910597	0.95260132	0.88324188	1.5015112	0.27039425
90_14	6/17/13	650	1400	2050	0.278	1000	2100	3100	0.596	0.437	826	0.46722891	0.94937121	0.87334148	1.48468052	0.29433942
90_15	6/27/13	410	860	1270	0.274	1300	2700	4000	0.6	0.437	836	0.46294442	0.94877424	0.87154907	1.48163342	0.29494475
90_16	7/10/13	65	130	195	0.15	440	930	1370	0.544	0.347	849	0.45743327	0.94799875	0.86923764	1.47770399	0.23482375
90_17	8/20/13	450	980	1430	0.23	1000	2300	3300	0.518	0.374	890	0.44047803	0.9455571	0.86208369	1.46554227	0.25519564
90_18	9/12/13	300	660	960	0.208	1200	2600	3800	0.518	0.363	913	0.43124324	0.94419015	0.8581588	1.45886996	0.24882273
90_19	10/7/13	880	1900	2780	0.234	880	1900	2780	0.356	0.295	938	0.42142488	0.94270658	0.85396271	1.4517366	0.20320491
90_20	12/13/13	890	2200	3090	0.262	900	2200	3100	0.532	0.397	1005	0.3962	0.93874209	0.84306504	1.43321056	0.27700047
90_21	1/6/14	290	760	1050	0.224	540	1200	1740	0.58	0.402	1029	0.38753633	0.93732604	0.83928043	1.42677673	0.28175396
90_22	2/13/14	780	2000	2780	0.15	570	1400	1970	0.34	0.245	1067	0.37420466	0.93508831	0.83341168	1.41679986	0.17292492
90_23	4/28/15	570	2000	2570	0.21	730	2500	3230	0.45	0.33	1506	0.24973064	0.90962086	0.77511006	1.31768709	0.25043882
90_24	5/13/15	210	690	900	0.21	700	2700	3400	0.43	0.32	1521	0.24630348	0.90876304	0.77338476	1.3147541	0.24339152
90_25	6/11/15	260	840	1100	0.21	1400	5300	6700	0.43	0.32	1550	0.23981044	0.90710688	0.77009233	1.30915696	0.24443211
90_26	7/4/15	500	1800	2300	0.19	460	1500	1960	0.42	0.305	1573	0.23478272	0.90579551	0.76752072	1.30478522	0.23375495
90_27	8/5/15	170	660	830	0.27	1300	5400	6700	0.38	0.325	1605	0.2279625	0.90397416	0.76399972	1.29879952	0.25023107
90_28	9/17/15	40	180	220	0.2	390	1500	1890	0.39	0.295	1648	0.21910876	0.90153249	0.75936967	1.29092843	0.2285177
90_29	10/13/15	260	1100	1360	0.2	410	1800	2210	0.38	0.29	1674	0.21392303	0.90005933	0.7566248	1.28626215	0.22545948
90_30	12/13/15	790	3500	4290	0.2	640	2900	3540	0.38	0.29	1735	0.20223315	0.89661251	0.75034064	1.27557909	0.22734772
90_31	1/19/16	190	880	1070	0.21	790	3400	4190	0.32	0.265	1772	0.19545608	0.89452825	0.74663154	1.26927362	0.20878083
90_32	2/5/16	400	1800	2200	0.23	470	2100	2570	0.35	0.29	1789	0.19241891	0.89357224	0.74495248	1.26641921	0.2289921
90_33	4/29/16	370	1800	2170	0.25	510	2600	3110	0.37	0.31	1873	0.17809044	0.88886341	0.73687885	1.25269404	0.24746665
90_34	5/20/16	100	600	700	0.25	1700	8700	10400	0.3	0.275	1894	0.17467824	0.88769009	0.73491636	1.24935781	0.22011308
90_35	6/17/16	77	470	547	0.37	420	2500	2920	0.39	0.38	1922	0.17023013	0.88612806	0.73233316	1.24496637	0.30522913
90_36	7/15/16	270	1500	1770	0.21	330	1800	2130	0.39	0.3	1950	0.16589529	0.88456879	0.72978736	1.24063851	0.24181097
90_37	8/9/16	1000	5500	6500	0.2	400	2000	2400	0.37	0.285	1975	0.16211825	0.88317889	0.72754519	1.23682682	0.23042838
90_38	9/3/16	600	3400	4000	0.23	210	1200	1410	0.34	0.285	2000	0.15842722	0.88179119	0.72533148	1.23306352	0.23113165
90_39	10/11/16	130	740	870	0.25	210	1400	1610	0.36	0.305	2038	0.15297715	0.87968605	0.72201979	1.22743364	0.24848594
90_40	12/8/16	550	3500	4050	0.21	580	3400	3980	0.29	0.25	2096	0.1450179	0.87648262	0.71708445	1.21904357	0.20507881
90_41	1/13/17	530	3300	3830	0.21	440	3000	3440	0.35	0.28	2132	0.14028736	0.87450016	0.71409097	1.21395464	0.23065112
90_42	2/4/17	140	810	950	0.17	530	3400	3930	0.29	0.23	2154	0.13747277	0.87329086	0.71228707	1.21088803	0.18994324
90_43	4/24/17	380	2700	3080	0.22	240	1500	1740	0.32	0.27	2233	0.12782328	0.86896216	0.70596253	1.2001363	0.22497445
90_44	5/11/17	180	1300	1480	0.17	480	3400	3880	0.24	0.205	2250	0.12583705	0.86803347	0.70463182	1.19787409	0.17113652
90_45	6/13/17	180	1300	1480	0.14	1000	7900	8900	0.3	0.22	2283	0.12206909	0.86623357	0.70207816	1.19353287	0.18432672
90_46	7/20/17	120	890	1010	0.17	850	6300	7150	0.21	0.19	2320	0.11797841	0.86421992	0.69926011	1.18874219	0.15983281
90_47	8/4/17	83	670	753	0.11	280	2400	2680	0.29	0.2	2335	0.11635935	0.86340492	0.69813093	1.18682258	0.16851718
90_48	9/2/17	140	1100	1240	0.18	270	2100	2370	0.26	0.22	2364	0.11329189	0.86183142	0.69596906	1.1831474	0.18594471
90_49	10/9/17	140	1100	1240	0.18	130	1100	1230	0.24	0.21	2401	0.10949535	0.85982801	0.69325049	1.17852584	0.17818871
90_50	12/9/17	52	480	532	0.1	140	1300	1440	0.23	0.165	2462	0.10351195	0.85653526	0.68886223	1.17106579	0.14089729
90_51	1/12/18	120	1200	1320	0.11	180	1400	1580	0.23	0.17	2496	0.10032001	0.85470543	0.68646509	1.16699065	0.14567383
90_52	2/14/18	40	380	420	0.1	41	300	341	0.23	0.165	2529	0.09731612	0.85293315	0.68417065	1.1630901	0.14186347
90_53	4/27/18	29	350	379	0.14	95	1100	1195	0.28	0.21	2601	0.09107069	0.84907912	0.67927048	1.15475982	0.181856
90_54	5/15/18	240	2300	2540	0.13	140	1300	1440	0.13	0.13	2619	0.089573	0.84811834	0.67806736	1.15271452	0.11277727
90_55	6/5/18	120	1400	1520	0.1	100	1000	1100	0.23	0.165	2640	0.08785679	0.8469988	0.67667446	1.15034659	0.14343503
90_56	7/19/18	34	330	364	0.16	260	2600	2860	0.21	0.185	2684	0.0843668	0.84465789	0.67379267	1.14544754	0.16150892
90_57	8/3/18	220	2300	2520	0.21	200	2200	2400	0.26	0.235	2699	0.083209	0.84386133	0.67282133	1.14379627	0.20545617
90_58	9/2/18	52	530	582	0.21	210	2200	2410	0.26	0.235	2729	0.08094085	0.84227046	0.67089517	1.14052179	0.20604604
90_59	10/10/18	130	1400	1530	0.13	41	460	501	0.22	0.175	2767	0.07815639	0.84025967	0.66848625	1.13642662	0.15399146
90_60	12/10/18	200	2100	2300	0.14	50	550	600	0.2	0.17	2828	0.07388552	0.83704186	0.66468895	1.12997122	0.15044631
90_61	1/22/19	32	410	442	0.1	220	2700	2920	0.13	0.115	2871	0.07101591	0.83478097	0.66206178	1.12550502	0.10217635
90_62	2/10/19	18	240	258	0.11	140	1600	1740	0.24	0.175	2890	0.06978371	0.83378392	0.66091356	1.12355306	0.15575588
90_63	4/27/19	56	790	846	0.18	59	680	739	0.24	0.21	2966	0.06506502	0.82980761	0.6563953	1.11587201	0.18819363
90_64	5/17/19	130	2100	2230	0.12	51	730	781	0.17	0.145	2986	0.0638772	0.82876437	0.65522551	1.11388336	0.13017521
90_65	6/6/19	43	580	623	0.11	73	970	1043	0.17	0.14	3006	0.06271106	0.82772244	0.65406347	1.1119079	0.12590971
90_66	7/13/19	52	870	922	0.17	83	1300	1383	0.21	0.19	3043	0.06060955	0.82579832	0.65193375	1.10828738	0.17143568
90_67	8/3/19	89	1200	1289	0.21	91	1400	1491	0.24	0.225	3064	0.05944827	0.82470824	0.65073632	1.10625175	0.20338951
90_68	9/5/19	29	430	459	0.17	92	1500	1592	0.21	0.19	3097	0.0576682	0.82299817	0.64887084	1.10308042	0.17224492
90_69	10/10/19	33	460	493	0.16	180	2500	2680	0.16	0.16	3132	0.05583846	0.82118833	0.64691339	1.09975276	0.14548725
90_70	12/4/19	97	1600	1697	0.11	110	2000	2110	0.16	0.135	3187	0.05307974	0.81835234	0.64387989	1.09459581	0.1233332
90_71	1/24/20	48	740	788	0.18	100	1800	1900	0.23	0.205	3238	0.05064358	0.81573136	0.6411117	1.08988989	0.18809239
90_72	2/8/20	120	2100	2220	0.17	74	1200	1274	0.22	0.195	3253	0.04994858	0.81496208	0.64030546	1.08851928	0.17914244
90_73	7/27/20	37	650	687	0.14	38	600	638	0.18	0.16	3423	0.04270795	0.80629411	0.63140492	1.07338836	0.14906068
90_74	8/15/20	23	430	453	0.15	110	2200	2310	0.22	0.185	3442	0.04196692	0.80533109	0.63043581	1.07174088	0.17261635
90_75	9/4/20	100	1900	2000	0.13	37	680	717	0.18	0.155	3462	0.04120077	0.80431862	0.62942097	1.07001565	0.14485769
90_76	10/7/20	45	940	985	0.09	92	1900	1992	0.14	0.115	3495	0.03996709	0.80265082	0.62775812	1.0671888	0.10775975
90_77	11/17/20	38	730	768	0.14	49	1100	1149	0.22	0.18	3536	0.03848567	0.80058353	0.62571183	1.0637101	0.16921904
90_78	12/9/20	25	560	585	0.17	92	2000	2092	0.21	0.19	3558	0.03771353	0.79947645	0.62462259	1.06185841	0.17893158
90_79	1/26/21	27	590	617	0.13	19	410	429	0.22	0.175	3606	0.03608221	0.79706631	0.62226678	1.05785352	0.16542933
90_80	2/14/21	100	2400	2500	0.13	47	1000	1047	0.17	0.15	3625	0.03545614	0.79611431	0.62134193	1.05628128	0.14200763
90_81	4/19/21	19	330	349	0.15	80	1900	1980	0.22	0.185	3689	0.03342613	0.79291591	0.61825763	1.05103798	0.17601647
90_82	5/12/21	57	1400	1457	0.15	93	2500	2593	0.19	0.17	3712	0.03272533	0.79176963	0.61716058	1.04917298	0.16203238
90_83	6/1/21	11	180	191	0.16	55	1400	1455	0.22	0.19	3732	0.0321279	0.79077421	0.61621137	1.04755934	0.18137397
90_84	7/19/21	61	1800	1861	0.13	14	440	454	0.21	0.17	3780	0.03073819	0.78839031	0.61395094	1.0437166	0.16287946
90_85	8/28/21	16	540	556	0.16	18	450	468	0.17	0.165	3820	0.02962613	0.78640921	0.61208579	1.04054585	0.15857062
90_86	9/17/21	32	1000	1032	0.13	160	4300	4460	0.21	0.17	3840	0.02908528	0.78542053	0.61115938	1.03897095	0.16362344
90_87	10/22/21	14	400	414	0.13	78	2200	2278	0.17	0.15	3875	0.02816244	0.78369333	0.60954782	1.03623129	0.14475533
90_88	12/18/21	20	680	700	0.17	53	1200	1253	0.18	0.175	3932	0.02672178	0.78088858	0.6069489	1.03181313	0.16960435
90_89	1/12/22				0.13	42	1100	1142	0.14	0.135	3957	0.02611339	0.7796616	0.60581877	1.0298919	0.13108172
90_90	2/16/22	48	1000	1048	0.14	82	2300	2382	0.21	0.175	3992	0.02528484	0.77794706	0.60424629	1.02721869	0.17036294
90_91	4/28/22	10	160	160	0.12	130	4100	4230	0.15	0.135	4063	0.02368395	0.77448058	0.60109017	1.02185328	0.1321129
90_92	5/19/22	75	2600	2675	0.14	170	6100	6270	0.19	0.165	4084	0.02323017	0.77345824	0.60016508	1.02028063	0.16172021
90_93	6/11/22	29	1000	1029	0.09	22	800	822	0.14	0.115	4107	0.02274314	0.77234009	0.59915618	1.01856551	0.11290388
90_94	7/11/22	22	620	642	0.09	87	2700	2787	0.14	0.115	4137	0.0221232	0.77088405	0.59784686	1.01633966	0.11315115
90_95	8/9/22	8.4	230	238.4	0.14	380	13000	13380	0.16	0.15	4166	0.02153999	0.76947917	0.59658819	1.01419992	0.14789983
90_96	9/15/22	29	1200	1229	0.13	94	3500	3594	0.18	0.155	4203	0.02081816	0.76769044	0.59499209	1.01148655	0.1532398
90_97	10/13/22	9.5	430	439.5	0.13	55	1900	1955	0.18	0.155	4231	0.02028803	0.76633957	0.59379137	1.00944532	0.15354967
90_98	12/21/22	9.5	260	260	0.14	12	440	452	0.15	0.145	4300	0.01903856	0.76302079	0.59085795	1.00445851	0.14435638
90_99	1/17/23	13	570	583	0.12	160	7200	7360	0.18	0.15	4327	0.01857085	0.76172605	0.5897197	1.00252349	0.14962243
90_100	2/7/23	8.6	360	360	0.15	140	5900	6040	0.17	0.16	4348	0.01821503	0.76072055	0.58883804	1.00102467	0.15983622
90_101	4/26/23	9.4	270	270	0.15	60	2900	2960	0.18	0.165	4426	0.01695209	0.75699745	0.58559048	0.99550382	0.16574522
90_102	5/16/23	11	350	361	0.12	160	7000	7160	0.14	0.13	4446	0.01664262	0.75604574	0.5847645	0.99409964	0.1307716
90_103	6/21/23	8.6	340	348.6	0.13	67	3300	3367	0.17	0.15	4482	0.01609973	0.75433569	0.58328445	0.99158356	0.15127318
90_104	7/13/23	7.3	270	277.3	0.15	96	5400	5496	0.16	0.155	4504	0.01577672	0.75329256	0.58238416	0.99005308	0.15655726
90_105	8/28/23	25	950	975	0.12	44	2700	2744	0.16	0.14	4550	0.01512212	0.75111613	0.5805118	0.98687006	0.14186265
90_106	9/14/23	6.8	260	260	0.12	100	5500	5600	0.16	0.14	4567	0.01488714	0.75031339	0.57982322	0.98569947	0.14203112
90_107	10/13/23	12	600	612	0.1	36	2100	2136	0.16	0.13	4596	0.01449469	0.748946	0.57865271	0.98370962	0.13215282
90_108	12/1/23	5.9	270	275.9	0.15	85	5000	5085	0.12	0.135	4645	0.01385494	0.74664122	0.57668659	0.9803672	0.13770351
90_109	1/12/24	8.8	370	378.8	0.11	140	7000	7140	0.16	0.135	4687	0.01332911	0.74467135	0.57501268	0.97752155	0.13810437
90_110	2/2/24	32	1800	1832	0.13	6	190	196	0.15	0.14	4708	0.01307372	0.74368836	0.57417956	0.97610526	0.14342716
90_111	4/24/24	8.4	220	220	0.12	110	6900	7010	0.18	0.15	4790	0.0121225	0.73986244	0.5709503	0.9706155	0.15454111
90_112	5/17/24	5.7	300	300	0.13	60	3800	3860	0.17	0.15	4813	0.01186835	0.73879286	0.57005118	0.96908701	0.15478486
90_113	6/13/24	25	1400	1425	0.1	21	1600	1621	0.15	0.125	4840	0.01157679	0.73753923	0.56899933	0.96729885	0.12922583
90_114	7/2/24	9.3	620	629.3	0.1	25	1700	1725	0.14	0.12	4859	0.01137592	0.73665832	0.56826145	0.96604446	0.12421788
90_115	8/24/24	9.1	200	200	0.1	120	7800	7920	0.18	0.14	4912	0.01083383	0.73420661	0.5662131	0.96256228	0.14544513
90_116	9/25/24	23	1700	1723	0.1	17	1200	1217	0.14	0.12	4944	0.01051912	0.73273029	0.56498332	0.96047164	0.12493862

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
91_1	11/29/11	2200	2700	4900	0.87	5200	6500	11700	0.85	0.86	260	0.78700569	0.983779	0.99934104	0.85943329	1.0006594
91_2	1/15/12	4700	6100	10800	0.96	4100	5400	9500	0.92	0.94	307	0.75365723	0.98087495	0.98672548	0.84858392	1.10772781
91_3	5/5/12	11	430	630	0.68	16	1300	1800	0.83	0.755	418	0.68040019	0.97405043	0.95867147	0.82445746	0.91575374
91_4	7/10/12	16	1200	1900	0.68	14	1200	1800	0.75	0.715	484	0.6402636	0.97001514	0.94307395	0.81104359	0.88158023
91_5	10/4/12	14	1200	2000	0.72	17	1500	2600	0.74	0.73	570	0.59149556	0.96478211	0.92386922	0.79452753	0.91878503
91_6	11/12/12	15	1200	2100	0.66	50	8900	15000	0.57	0.615	609	0.57062155	0.9624183	0.91555408	0.78737651	0.78107486
91_7	12/19/12	9.5	460	850	0.87	53	9700	17000	0.83	0.85	646	0.55149937	0.96018107	0.90788174	0.7807783	1.08865731
91_8	2/12/13	15	860	1600	0.59	21	2200	4000	0.52	0.555	701	0.5242523	0.95686506	0.8968512	0.77129203	0.71957181
91_9	5/10/13	310	610	920	0.558	840	1800	2640	0.596	0.577	788	0.48387472	0.95164311	0.88026892	0.75703127	0.7621878
91_10	6/21/13	400	780	1180	0.47	460	970	1430	0.598	0.534	830	0.46551037	0.94913238	0.87262301	0.75045579	0.71156757
91_11	8/7/13	2200	4500	6700	0.406	590	1400	1990	0.406	0.406	877	0.44578491	0.9463306	0.86432994	0.74332375	0.54619538
91_12	10/10/13	2700	5700	8400	0.296	940	2100	3040	0.33	0.313	941	0.4202618	0.94252871	0.85346401	0.73397905	0.42644269
91_13	12/9/13	360	900	1260	0.45	1100	2500	3600	0.65	0.55	1001	0.39766266	0.93897831	0.84370179	0.72558354	0.75801058
91_14	5/11/15	570	2000	2570	0.24	180	590	770	0.24	0.24	1519	0.24675771	0.90887737	0.77361392	0.66530797	0.3607352
91_15	6/7/15	950	3500	4450	0.29	80	310	390	0.25	0.27	1546	0.24069575	0.90733513	0.77054312	0.66266708	0.40744441
91_16	8/9/15	380	1500	1880	0.26	160	600	760	0.25	0.255	1609	0.22712402	0.90374675	0.76356417	0.65666518	0.38832575
91_17	10/11/15	460	1900	2360	0.24	13	44	57	0.2	0.22	1672	0.21431753	0.90017256	0.7568345	0.65087767	0.33800514
91_18	12/3/15	790	3300	4090	0.23	810	3800	4610	0.24	0.235	1725	0.20410479	0.89717665	0.7513562	0.64616633	0.36368345
91_19	1/11/16	520	2500	3020	0.26	12	59	71	0.13	0.195	1764	0.19690188	0.89497849	0.74742712	0.64278732	0.30336628
91_20	5/22/16	99	480	579	0.23	18	67	85	0.13	0.18	1896	0.1743567	0.88757842	0.73473058	0.6318683	0.28486949
91_21	6/18/16	380	2000	2380	0.18	420	2300	2720	0.31	0.245	1923	0.17007338	0.88607233	0.7322416	0.62972778	0.389057
91_22	8/7/16	580	3200	3780	0.24	250	1500	1750	0.26	0.25	1973	0.16241723	0.88329001	0.72772351	0.62584222	0.39946171
91_23	10/10/16	340	1800	2140	0.22	490	2800	3290	0.24	0.23	2037	0.15311814	0.87974138	0.72210613	0.62101127	0.37036365
91_24	12/7/16	180	1300	1480	0.19	670	4000	4670	0.19	0.19	2095	0.14515156	0.87653776	0.71716836	0.61676479	0.30805909
91_25	1/11/17	430	2700	3130	0.22	660	4200	4860	0.23	0.225	2130	0.14054608	0.87461018	0.71425591	0.61426008	0.36629436
91_26	5/4/17	420	2700	3120	0.16	300	2200	2500	0.19	0.175	2243	0.12665114	0.86841575	0.70517849	0.6064535	0.28856293
91_27	6/18/17	360	2700	3060	0.19	170	1300	1470	0.16	0.175	2288	0.12150811	0.86596118	0.70169458	0.60345734	0.28999564
91_28	8/6/17	390	2900	3290	0.18	110	920	1030	0.14	0.16	2337	0.11614516	0.86329631	0.69798094	0.60026361	0.26654956
91_29	10/9/17	300	2200	2500	0.16	96	820	916	0.14	0.15	2401	0.10949535	0.85982801	0.69325049	0.59619542	0.25159536
91_30	12/6/17	200	1800	2000	0.13	120	1200	1320	0.14	0.135	2459	0.10379842	0.8566969	0.68907539	0.59260484	0.22780779
91_31	1/9/18	120	1200	1320	0.18	120	990	1110	0.15	0.165	2493	0.10059765	0.85486672	0.68667523	0.5905407	0.27940496
91_32	5/4/18	130	1400	1530	0.14	85	850	935	0.14	0.14	2608	0.0904853	0.84870536	0.67880158	0.58376936	0.23982074
91_33	6/7/18	89	1000	1089	0.14	68	580	648	0.13	0.135	2642	0.08769506	0.84689226	0.6765424	0.58182647	0.23202795
91_34	8/4/18	170	1700	1870	0.18	99	960	1059	0.16	0.17	2700	0.08313238	0.84380825	0.67275678	0.57857083	0.29382747
91_35	10/6/18	96	1100	1196	0.12	120	1300	1420	0.15	0.135	2763	0.07844493	0.84047111	0.66873822	0.57511487	0.23473571
91_36	11/4/18	250	2800	3050	0.19	80	950	1030	0.17	0.18	2792	0.07637696	0.8389394	0.66691978	0.57355101	0.31383434
91_37	12/5/18	96	1100	1196	0.13	74	800	874	0.13	0.13	2823	0.07422663	0.83730515	0.66499706	0.57189747	0.22731347
91_38	5/3/19	130	1700	1830	0.13	88	1200	1288	0.12	0.125	2972	0.06470637	0.8294945	0.65604354	0.56419744	0.22155364
91_39	6/7/19	77	1200	1277	0.13	53	730	783	0.11	0.12	3007	0.06265332	0.82767038	0.65400557	0.56244479	0.21335427
91_40	8/5/19	250	3700	3950	0.21	59	740	799	0.17	0.19	3066	0.05933884	0.8246045	0.65062271	0.55953553	0.33956736
91_41	10/28/19	53	870	923	0.09	63	1100	1163	0.1	0.095	3150	0.05492018	0.82025911	0.64591497	0.55548688	0.17102114
91_42	11/14/19	140	2200	2340	0.16	52	730	782	0.16	0.16	3167	0.05406678	0.81938248	0.64497708	0.55468029	0.28845445
91_43	12/5/19	25	440	465	0.1	110	1600	1710	0.11	0.105	3188	0.05303086	0.81830087	0.6438252	0.55368968	0.18963691
91_44	8/4/20	56	910	966	0.15	35	640	675	0.15	0.15	3431	0.04239435	0.80588849	0.63099627	0.54265679	0.27641781
91_45	10/9/20	11	220	231	0.07	50	960	1010	0.1	0.085	3497	0.03989352	0.80254986	0.62765779	0.5397857	0.1574699
91_46	11/15/20	51	1100	1151	0.16	55	990	1045	0.16	0.16	3534	0.03855665	0.80068425	0.62581115	0.53819759	0.29728859
91_47	12/5/20	68	1400	1468	0.18	47	1100	1147	0.15	0.165	3554	0.03785276	0.79967763	0.62482019	0.53734536	0.30706509
91_48	5/18/21	10	250	260	0.13	11	190	201	0.15	0.14	3718	0.03254495	0.79147087	0.61687536	0.53051281	0.26389561
91_49	6/3/21	39	840	879	0.12	17	350	367	0.12	0.12	3734	0.03206876	0.79067474	0.61611669	0.52986036	0.22647477
91_50	8/30/21	43	930	973	0.13	34	1000	1034	0.16	0.145	3822	0.02957159	0.78631028	0.61199297	0.52631395	0.27550096
91_51	10/22/21	12	390	402	0.15	12	300	312	0.15	0.15	3875	0.02816244	0.78369333	0.60954782	0.52421112	0.28614425
91_52	11/18/21	28	690	718	0.12	21	790	811	0.14	0.13	3902	0.02747059	0.78236351	0.60831285	0.52314905	0.24849515
91_53	12/27/21	30	1200	1230	0.11	44	1300	1344	0.13	0.12	3941	0.02650114	0.78044665	0.60654138	0.52162559	0.23005007
91_54	5/17/22	20	550	570	0.05	8.3	150	150	0.07	0.06	4082	0.02327301	0.77355555	0.60025302	0.5162176	0.11623006
91_55	6/11/22	9.4	320	320	0.08	15	720	735	0.11	0.095	4107	0.02274314	0.77234009	0.59915618	0.51527432	0.18436782
91_56	8/8/22	8.1	200	200	0.13	58	2700	2758	0.15	0.14	4165	0.02155984	0.76952757	0.59663148	0.51310307	0.27284966
91_57	10/13/22	7.8	47	47	0.17	76	2000	2076	0.16	0.165	4231	0.02028803	0.76633957	0.59379137	0.51066058	0.3231109
91_58	11/8/22	7.5	120	120	0.17	34	1400	1434	0.11	0.14	4257	0.01980787	0.76508733	0.59268181	0.50970636	0.27466795
91_59	12/20/22	6.7	99	99	0.12	9.1	220	220	0.12	0.12	4299	0.0190561	0.76306879	0.59090021	0.50817418	0.23613951
91_60	5/16/23	22	1100	1122	0.11	63	2600	2663	0.14	0.125	4446	0.01664262	0.75604574	0.5847645	0.50289747	0.24855961
91_61	6/23/23	33	1500	1533	0.11	55	2100	2155	0.16	0.135	4484	0.01607009	0.7542408	0.58320248	0.50155413	0.26916337
91_62	8/18/23	8.2	230	230	0.12	43	2100	2143	0.13	0.125	4540	0.01526208	0.75158873	0.58091769	0.49958922	0.25020556
91_63	10/30/23	9.2	290	290	0.11	18	940	958	0.14	0.125	4613	0.01426946	0.74814558	0.57796895	0.4970533	0.25148209
91_64	11/28/23	7.7	290	290	0.11	8.9	330	330	0.15	0.13	4642	0.01389328	0.74678213	0.57680655	0.49605363	0.26208844
91_65	12/26/23	7.2	150	150	0.13	8.3	370	370	0.15	0.14	4670	0.0135395	0.74546805	0.57568897	0.49509251	0.28277543
91_66	5/10/24	25	1500	1525	0.12	16	880	896	0.13	0.125	4806	0.01194513	0.73911822	0.57032452	0.49047909	0.25485286
91_67	6/7/24	28	1600	1628	0.11	19	1200	1219	0.13	0.12	4834	0.01164095	0.73781763	0.56923273	0.48954015	0.245128
91_68	8/22/24	34	1900	1934	0.11	16	1200	1216	0.14	0.125	4910	0.01085381	0.73429898	0.56629014	0.48700952	0.25666849

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
92_1	11/15/11	1300	1700	3000	1.94	4900	6200	11100	1.93	1.935	246	0.79722161	0.9846457	1.00318809	1.94116896	0.99682204
92_2	1/19/12	2200	2800	5000	1.64	3300	4400	7700	1.59	1.615	311	0.75088518	0.98062819	0.98567272	1.90727671	0.84675705
92_3	5/5/12	32	4200	6000	0.93	19	1300	1900	1.18	1.055	418	0.68040019	0.97405043	0.95867147	1.85502929	0.56872417
92_4	7/12/12	17	1500	2400	0.86	23	3400	5400	0.88	0.87	486	0.63908502	0.96989312	0.94261323	1.82395661	0.47698503
92_5	10/3/12	29	4100	6700	0.71	23	3100	5200	0.62	0.665	569	0.59204072	0.96484279	0.92408558	1.78810559	0.37190197
92_6	10/31/12	17	1400	2400	0.82	21	2700	4600	0.72	0.77	597	0.57696463	0.96314501	0.91808729	1.7764989	0.4334368
92_7	12/19/12	14	900	1600	0.27	14	1100	2000	0.31	0.29	646	0.55149937	0.96018107	0.90788174	1.75675117	0.16507745
92_8	5/10/13	1400	2800	4200	0.722	480	880	1360	0.784	0.753	788	0.48387472	0.95164311	0.88026892	1.70332036	0.44207773
92_9	6/21/13	1500	3000	4500	0.562	3000	6200	9200	0.676	0.619	830	0.46551037	0.94913238	0.87262301	1.68852552	0.36659203
92_10	8/8/13	2800	5700	8500	0.692	1400	2900	4300	0.618	0.655	878	0.44537443	0.94627108	0.86415643	1.6721427	0.39171298
92_11	10/10/13	1400	3200	4600	0.606	1700	3900	5600	0.458	0.532	941	0.4202618	0.94252871	0.85346401	1.65145286	0.32214059
92_12	12/13/13	720	1600	2320	0.66	2100	5100	7200	0.55	0.605	1005	0.3962	0.93874209	0.84306504	1.63133084	0.37086285
92_13	5/13/15	920	3500	4420	0.48	1200	4500	5700	0.42	0.45	1521	0.24630348	0.90876304	0.77338476	1.49649952	0.30070173
92_14	6/25/15	2700	9800	12500	0.41	850	3100	3950	0.46	0.435	1564	0.23673741	0.90630843	0.76852288	1.48709177	0.29251725
92_15	8/5/15	2400	9500	11900	0.4	1400	5600	7000	0.38	0.39	1605	0.2279625	0.90397416	0.76399972	1.47833946	0.26380951
92_16	10/12/15	1300	5100	6400	0.34	1200	5100	6300	0.29	0.315	1673	0.21412019	0.90011594	0.75672962	1.46427182	0.21512399
92_17	12/15/15	1200	4800	6000	0.37	1200	5100	6300	0.29	0.33	1737	0.20186088	0.89649972	0.7501382	1.45151742	0.22734829
92_18	2/5/16	870	4200	5070	0.34	1200	5300	6500	0.26	0.3	1789	0.19241891	0.89357224	0.74495248	1.44148304	0.20811899
92_19	5/3/16	790	3800	4590	0.37	980	5000	5980	0.27	0.32	1877	0.17743539	0.8886398	0.73650336	1.425134	0.22454029
92_20	6/14/16	900	4700	5600	0.39	760	4000	4760	0.29	0.34	1919	0.17070124	0.88629529	0.73260813	1.41759673	0.23984254
92_21	8/11/16	620	3200	3820	0.37	1000	5500	6500	0.29	0.33	1977	0.16181983	0.8830678	0.72736705	1.40745525	0.23446571
92_22	10/8/16	460	2600	3060	0.31	710	4300	5010	0.26	0.285	2035	0.15340051	0.87985206	0.72227895	1.39760976	0.20391958
92_23	12/7/16	570	3700	4270	0.3	620	3700	4320	0.26	0.28	2095	0.14515156	0.87653776	0.71716836	1.38772077	0.2017697
92_24	2/3/17	720	4400	5120	0.28	830	5500	6330	0.2	0.24	2153	0.13759947	0.8733458	0.71236866	1.37843335	0.1741107
92_25	5/14/17	240	1700	1940	0.21	550	3700	4250	0.18	0.195	2253	0.12548975	0.86786969	0.70439807	1.36301026	0.14306569
92_26	6/10/17	2200	15000	17200	0.24	590	4300	4890	0.19	0.215	2280	0.12240692	0.86639704	0.70230872	1.35896737	0.15820836
92_27	8/11/17	490	3500	3990	0.24	360	2500	2860	0.19	0.215	2342	0.11561141	0.86302484	0.69760655	1.34986868	0.15927475
92_28	10/13/17	240	1800	2040	0.22	410	3300	3710	0.19	0.205	2405	0.10909261	0.8596117	0.69295921	1.34087606	0.15288512
92_29	12/6/17	420	3400	3820	0.21	490	4200	4690	0.17	0.19	2459	0.10379842	0.8566969	0.68907539	1.33336089	0.14249706
92_30	2/9/18	260	2300	2560	0.2	300	2700	3000	0.17	0.185	2524	0.0977654	0.85320144	0.68451628	1.32453901	0.13967124
92_31	5/6/18	390	3600	3990	0.21	520	5000	5520	0.16	0.185	2610	0.09031874	0.8485986	0.67866785	1.31322229	0.14087486
92_32	6/2/18	230	2300	2530	0.23	210	1900	2110	0.2	0.215	2637	0.08809993	0.84715864	0.67687275	1.30974877	0.16415362
92_33	8/16/18	830	8400	9230	0.27	430	4400	4830	0.23	0.25	2712	0.08221843	0.84317159	0.67198398	1.30028901	0.19226495
92_34	10/13/18	240	2700	2940	0.19	380	4300	4680	0.15	0.17	2770	0.07794069	0.84010113	0.66829751	1.29315568	0.13146136
92_35	11/3/18	360	3600	3960	0.17	590	6500	7090	0.16	0.165	2791	0.07644736	0.83899217	0.66698216	1.29061048	0.12784647
92_36	12/12/18	190	2400	2590	0.18	430	4900	5330	0.16	0.17	2830	0.07374951	0.83693656	0.66456586	1.28593494	0.13219953
92_37	5/3/19	180	2400	2580	0.18	200	2800	3000	0.16	0.17	2972	0.06470637	0.8294945	0.65604354	1.26944425	0.13391687
92_38	6/11/19	200	2600	2800	0.18	180	2600	2780	0.12	0.15	3011	0.06242287	0.82746216	0.65377416	1.265053	0.11857211
92_39	8/10/19	220	3200	3420	0.25	180	2900	3080	0.23	0.24	3071	0.05906615	0.8243452	0.65033897	1.25840592	0.19071748
92_40	11/4/19	310	5200	5510	0.2	210	3700	3910	0.19	0.195	3157	0.05456716	0.81989803	0.64552819	1.24909705	0.15611277
92_41	12/11/19	170	2700	2870	0.12	140	2200	2340	0.11	0.115	3194	0.05273855	0.8179921	0.64349744	1.24516754	0.09235705
92_42	8/1/20	110	2100	2210	0.18	190	3600	3790	0.18	0.18	3428	0.04251168	0.80604057	0.63114941	1.22127411	0.14738706
92_43	10/11/20	260	5500	5760	0.13	170	3600	3770	0.09	0.11	3499	0.03982009	0.8024489	0.62755753	1.21432381	0.09058539
92_44	11/19/20	240	4600	4840	0.21	130	2800	2930	0.18	0.195	3538	0.03841483	0.80048283	0.62561255	1.21056029	0.16108244
92_45	12/10/20	190	4500	4690	0.23	190	4100	4290	0.2	0.215	3559	0.0376788	0.79942617	0.62457323	1.20854919	0.17789925
92_46	5/13/21	7.4	96	96	0.15	23	550	573	0.19	0.17	3713	0.0326952	0.79171983	0.61711301	1.19411368	0.142365
92_47	6/3/21	68	1700	1768	0.16	89	2400	2489	0.18	0.17	3734	0.03206876	0.79067474	0.61611669	1.1921858	0.14259522
92_48	8/30/21	100	2700	2800	0.17	120	2800	2920	0.14	0.155	3822	0.02957159	0.78631028	0.61199297	1.18420639	0.13088935
92_49	10/15/21	55	1400	1455	0.17	48	1100	1148	0.17	0.17	3868	0.02834463	0.78403846	0.60986916	1.18009682	0.14405598
92_50	11/18/21	69	2200	2269	0.18	51	1500	1551	0.18	0.18	3902	0.02747059	0.78236351	0.60831285	1.17708537	0.15292009
92_51	12/18/21	21	590	611	0.24	47	1400	1447	0.15	0.195	3932	0.02672178	0.78088858	0.6069489	1.17444612	0.16603571
92_52	5/17/22	100	4100	4200	0.18	66	2200	2266	0.17	0.175	4082	0.02327301	0.77355555	0.60025302	1.16148959	0.15066859
92_53	6/6/22	66	2100	2166	0.17	41	1500	1541	0.17	0.17	4102	0.02284814	0.77258303	0.59937513	1.15979087	0.14657815
92_54	8/8/22	130	4500	4630	0.13	120	4200	4320	0.09	0.11	4165	0.02155984	0.76952757	0.59663148	1.15448191	0.09528083
92_55	10/13/22	65	2200	2265	0.18	96	3400	3496	0.18	0.18	4231	0.02028803	0.76633957	0.59379137	1.14898629	0.15665983
92_56	11/8/22	49	1900	1949	0.19	57	2500	2557	0.15	0.17	4257	0.01980787	0.76508733	0.59268181	1.14683931	0.1482335
92_57	12/21/22	16	630	646	0.2	66	2200	2266	0.15	0.175	4300	0.01903856	0.76302079	0.59085795	1.14331013	0.15306433
92_58	5/16/23	85	3100	3185	0.13	57	2600	2657	0.15	0.14	4446	0.01664262	0.75604574	0.5847645	1.1315193	0.12372745
92_59	6/23/23	39	2100	2139	0.16	72	3900	3972	0.16	0.16	4484	0.01607009	0.7542408	0.58320248	1.12849679	0.14178153
92_60	8/18/23	31	1100	1131	0.17	85	4100	4185	0.14	0.155	4540	0.01526208	0.75158873	0.58091769	1.12407573	0.13789106
92_61	10/11/23	56	2700	2756	0.16	63	3300	3363	0.14	0.15	4594	0.01452142	0.74904022	0.57873327	1.11984888	0.13394664
92_62	11/6/23	18	1100	1118	0.15	75	3500	3575	0.17	0.16	4620	0.01417773	0.74781624	0.57768791	1.1178261	0.14313497
92_63	12/4/23	61	3400	3461	0.17	36	2600	2636	0.14	0.155	4648	0.0138167	0.74650034	0.57656668	1.11565652	0.13893165
92_64	5/21/24	43	2600	2643	0.17	42	2800	2842	0.17	0.17	4817	0.0118247	0.738607	0.5698951	1.10274703	0.15416047
92_65	6/13/24	95	6600	6695	0.17	24	1600	1624	0.14	0.155	4840	0.01157679	0.73753923	0.56899933	1.10101369	0.14077936
92_66	8/22/24	27	2400	2427	0.16	39	2900	2939	0.14	0.15	4910	0.01085381	0.73429898	0.56629014	1.09577142	0.13688986

UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
93_1	11/15/11	4200	5300	9500	1.77	6700	8400	15100	1.87	1.82	246	0.79722161	0.9846457	1.00318809	1.82580233	0.99682204
93_2	1/19/12	870	1100	1970	1.5	2100	2900	5000	1.55	1.525	311	0.75088518	0.98062819	0.98567272	1.79392435	0.85009159
93_3	4/29/12	17	1600	2300	0.65	22	2900	4400	0.75	0.7	412	0.68417143	0.97441811	0.96012821	1.74743334	0.40058753
93_4	5/8/12	16	1200	1700	0.71	12	910	1300	0.74	0.725	421	0.67852237	0.97386664	0.95794556	1.74346093	0.41583955
93_5	6/5/12	18	1700	2600	0.74	18	2000	3000	0.84	0.79	449	0.66124407	0.97215298	0.95124902	1.73127322	0.45631157
93_6	7/12/12	22	2800	4500	0.63	20	2100	3300	0.81	0.72	486	0.63908502	0.96989312	0.94261323	1.71555609	0.41968899
93_7	8/9/12	19	1800	2900	0.71	25	3000	4900	0.72	0.715	514	0.62281097	0.96818645	0.93623492	1.70394755	0.41961385
93_8	8/28/12	27	2800	4300	0.6	19	2100	3400	0.83	0.715	533	0.61200453	0.96703006	0.93198182	1.69620691	0.42152876
93_9	10/3/12	21	1900	3200	0.63	21	2700	4500	0.75	0.69	569	0.59204072	0.96484279	0.92408558	1.68183575	0.41026598
93_10	10/23/12	40	4600	7600	0.72	17	1700	2900	0.77	0.745	589	0.58123248	0.96362978	0.91978851	1.67401509	0.4450378
93_11	11/13/12	18	1200	2100	0.63	23	2900	5000	0.8	0.715	610	0.57009612	0.96235777	0.91534399	1.66592605	0.42919072
93_12	12/6/12	35	3200	5400	0.63	16	1300	2300	0.73	0.68	633	0.55814383	0.96096653	0.91055388	1.65720805	0.41032868
93_13	12/19/12	18	1200	2200	0.52	17	1500	2800	0.52	0.52	646	0.55149937	0.96018107	0.90788174	1.65234477	0.3147043
93_14	2/5/13	16	1200	2300	0.6	19	1700	3300	0.66	0.63	694	0.52764392	0.95728646	0.89823086	1.63478017	0.38537291
93_15	4/30/13	1600	3100	4700	0.554	1300	2600	3900	0.646	0.6	778	0.48835292	0.95224188	0.88212306	1.60546398	0.37372374
93_16	6/14/13	1200	2600	3800	0.53	1700	3600	5300	0.598	0.564	823	0.46852197	0.94955037	0.87388167	1.59046463	0.35461336
93_17	6/21/13	980	2000	2980	0.634	2000	4200	6200	0.61	0.622	830	0.46551037	0.94913238	0.87262301	1.58817387	0.39164478
93_18	7/10/13	720	1500	2220	0.462	1300	2900	4200	0.562	0.512	849	0.45743327	0.94799875	0.86923764	1.58201251	0.3236384
93_19	8/8/13	720	1500	2220	0.514	530	1100	1630	0.614	0.564	878	0.44537443	0.94627108	0.86415643	1.57276471	0.35860418
93_20	9/12/13	630	1400	2030	0.526	1300	3200	4500	0.56	0.543	913	0.43124324	0.94419015	0.8581588	1.56184902	0.34766485
93_21	10/7/13	1100	2500	3600	0.464	970	2100	3070	0.396	0.43	938	0.42142488	0.94270658	0.85396271	1.55421213	0.27666751
93_22	12/13/13	690	1700	2390	0.446	660	1600	2260	0.51	0.478	1005	0.3962	0.93874209	0.84306504	1.53437837	0.31152681
93_23	1/6/14	710	1800	2510	0.448	1300	3300	4600	0.526	0.487	1029	0.38753633	0.93732604	0.83928043	1.52749039	0.31882361
93_24	4/28/15	570	2000	2570	0.38	200	740	940	0.45	0.415	1506	0.24973064	0.90962086	0.77511006	1.4107003	0.29418013
93_25	5/13/15	980	3800	4780	0.37	970	3500	4470	0.46	0.415	1521	0.24630348	0.90876304	0.77338476	1.40756027	0.2948364
93_26	6/25/15	460	1600	2060	0.32	930	3500	4430	0.38	0.35	1564	0.23673741	0.90630843	0.76852288	1.39871163	0.25023028
93_27	7/23/15	480	1900	2380	0.32	680	2900	3580	0.38	0.35	1592	0.23070899	0.90471364	0.76542224	1.39306847	0.25124393
93_28	8/5/15	700	2800	3500	0.36	670	2700	3370	0.39	0.375	1605	0.2279625	0.90397416	0.76399972	1.39047949	0.26969114
93_29	9/28/15	780	3100	3880	0.32	670	2600	3270	0.33	0.325	1659	0.21689963	0.90090893	0.75820342	1.37993023	0.23551915
93_30	10/25/15	690	2700	3390	0.31	680	3000	3680	0.33	0.32	1686	0.21157118	0.89938022	0.75537151	1.37477614	0.23276517
93_31	12/15/15	670	3000	3670	0.3	620	2700	3320	0.31	0.305	1737	0.20186088	0.89649972	0.7501382	1.36525153	0.22340206
93_32	1/17/16	490	2200	2690	0.31	800	3300	4100	0.3	0.305	1770	0.19581654	0.89464078	0.74683011	1.3592308	0.22439162
93_33	2/5/16	640	2900	3540	0.32	770	3700	4470	0.3	0.31	1789	0.19241891	0.89357224	0.74495248	1.35581351	0.22864502
93_34	4/30/16	360	1700	2060	0.33	580	2800	3380	0.32	0.325	1874	0.17792645	0.8888075	0.7367849	1.34094852	0.24236575
93_35	5/20/16	540	2600	3140	0.32	740	3700	4440	0.33	0.325	1894	0.17467824	0.88769009	0.73491636	1.33754777	0.24298198
93_36	6/14/16	580	2800	3380	0.33	540	2800	3340	0.35	0.34	1919	0.17070124	0.88629529	0.73260813	1.33334679	0.25499743
93_37	7/16/16	540	3100	3640	0.33	350	2000	2350	0.33	0.33	1951	0.16574253	0.88451315	0.72969712	1.32804876	0.24848485
93_38	8/11/16	970	5400	6370	0.31	200	1100	1300	0.3	0.305	1977	0.16181983	0.8830678	0.72736705	1.32380804	0.23039594
93_39	9/4/16	980	5500	6480	0.29	480	2500	2980	0.28	0.285	2001	0.15828133	0.88173572	0.72524352	1.3199432	0.21591838
93_40	10/8/16	530	2800	3330	0.27	380	2300	2680	0.27	0.27	2035	0.15340051	0.87985206	0.72227895	1.31454768	0.20539384
93_41	12/7/16	190	1100	1290	0.26	460	2500	2960	0.28	0.27	2095	0.14515156	0.87653776	0.71716836	1.30524641	0.20685749
93_42	1/13/17	450	2600	3050	0.23	310	1800	2110	0.23	0.23	2132	0.14028736	0.87450016	0.71409097	1.29964556	0.17697133
93_43	2/5/17	400	2500	2900	0.28	390	2400	2790	0.23	0.255	2155	0.13734618	0.87323594	0.71220553	1.29621407	0.19672677
93_44	4/27/17	300	2100	2400	0.29	220	1700	1920	0.27	0.28	2236	0.1274705	0.8687982	0.70572694	1.28442303	0.21799671
93_45	5/14/17	220	1700	1920	0.21	230	1500	1730	0.21	0.21	2253	0.12548975	0.86786969	0.70439807	1.28200448	0.16380598
93_46	6/10/17	340	2400	2740	0.22	400	2700	3100	0.23	0.225	2280	0.12240692	0.86639704	0.70230872	1.27820187	0.17602853
93_47	7/20/17	240	1900	2140	0.23	290	2200	2490	0.24	0.235	2320	0.11797841	0.86421992	0.69926011	1.2726534	0.18465357
93_48	8/11/17	350	2600	2950	0.23	260	1700	1960	0.23	0.23	2342	0.11561141	0.86302484	0.69760655	1.26964393	0.18115315
93_49	9/1/17	280	2100	2380	0.24	230	1600	1830	0.23	0.235	2363	0.1133963	0.86188563	0.69604315	1.26679853	0.185507
93_50	10/13/17	210	1600	1810	0.19	190	1500	1690	0.2	0.195	2405	0.10909261	0.8596117	0.69295921	1.26118576	0.1546164
93_51	12/6/17	340	2600	2940	0.2	180	1400	1580	0.19	0.195	2459	0.10379842	0.8566969	0.68907539	1.25411721	0.15548786
93_52	1/12/18	230	2000	2230	0.19	150	1400	1550	0.2	0.195	2496	0.10032001	0.85470543	0.68646509	1.24936646	0.15607911
93_53	2/9/18	190	1500	1690	0.18	96	810	906	0.15	0.165	2524	0.0977654	0.85320144	0.68451628	1.24581964	0.13244293
93_54	4/27/18	190	1600	1790	0.23	390	3500	3890	0.26	0.245	2601	0.09107069	0.84907912	0.67927048	1.23627228	0.19817641
93_55	5/16/18	210	2200	2410	0.18	270	2700	2970	0.16	0.17	2620	0.08949052	0.848065	0.67800077	1.23396141	0.13776768
93_56	6/2/18	200	2100	2300	0.2	280	2700	2980	0.2	0.2	2637	0.08809993	0.84715864	0.67687275	1.2319084	0.16234973
93_57	7/19/18	170	1900	2070	0.2	230	2400	2630	0.19	0.195	2684	0.0843668	0.84465789	0.67379267	1.22630266	0.15901458
93_58	8/16/18	190	2000	2190	0.23	150	1600	1750	0.24	0.235	2712	0.08221843	0.84317159	0.67198398	1.22301085	0.19214875
93_59	9/3/18	250	2600	2850	0.25	170	2000	2170	0.24	0.245	2730	0.08086632	0.84221749	0.67083134	1.22091304	0.20066949
93_60	10/13/18	160	1800	1960	0.18	60	690	750	0.17	0.175	2770	0.07794069	0.84010113	0.66829751	1.21630147	0.1438788
93_61	12/12/18	190	2400	2590	0.15	84	980	1064	0.15	0.15	2830	0.07374951	0.83693656	0.66456586	1.20950987	0.12401718
93_62	1/23/19	200	2300	2500	0.23	250	3100	3350	0.22	0.225	2872	0.07095052	0.83472846	0.66200115	1.2048421	0.18674646
93_63	2/10/19	320	3800	4120	0.23	210	2700	2910	0.23	0.23	2890	0.06978371	0.83378392	0.66091356	1.20286269	0.19121052
93_64	4/27/19	120	1800	1920	0.25	96	1300	1396	0.23	0.24	2966	0.06506502	0.82980761	0.6563953	1.19463944	0.20089743
93_65	5/17/19	120	1500	1620	0.15	64	970	1034	0.14	0.145	2986	0.0638772	0.82876437	0.65522551	1.19251042	0.12159223
93_66	6/11/19	61	770	831	0.16	130	1700	1830	0.17	0.165	3011	0.06242287	0.82746216	0.65377416	1.18986898	0.13867073
93_67	7/13/19	180	2700	2880	0.21	190	2600	2790	0.19	0.2	3043	0.06060955	0.82579832	0.65193375	1.18651943	0.16856024
93_68	8/10/19	140	1900	2040	0.22	170	2300	2470	0.22	0.22	3071	0.05906615	0.8243452	0.65033897	1.18361693	0.18587095
93_69	9/4/19	170	2500	2670	0.21	130	2100	2230	0.2	0.205	3096	0.05772135	0.82304994	0.64892708	1.18104728	0.17357476
93_70	10/15/19	220	3200	3420	0.12	220	3300	3520	0.13	0.125	3137	0.05558185	0.82093011	0.6466355	1.1768766	0.10621334
93_71	12/11/19	93	1300	1393	0.14	62	1100	1162	0.14	0.14	3194	0.05273855	0.8179921	0.64349744	1.17116534	0.11953906
93_72	1/18/20	130	2300	2430	0.22	170	2800	2970	0.2	0.21	3232	0.05092428	0.81603927	0.6414352	1.16741206	0.17988507
93_73	2/6/20	140	2500	2640	0.24	92	1600	1692	0.2	0.22	3251	0.05004069	0.8150646	0.64041275	1.16555121	0.1887519
93_74	7/31/20	61	1100	1161	0.18	48	780	828	0.15	0.165	3427	0.04255086	0.80609127	0.63120049	1.14878488	0.14363002
93_75	8/15/20	110	2000	2110	0.19	69	1300	1369	0.19	0.19	3442	0.04196692	0.80533109	0.63043581	1.14739317	0.16559276
93_76	9/4/20	72	1400	1472	0.17	66	1300	1366	0.15	0.16	3462	0.04120077	0.80431862	0.62942097	1.14554617	0.13967137
93_77	10/12/20	74	1500	1574	0.13	57	1000	1057	0.1	0.115	3500	0.03978342	0.80239843	0.62750741	1.14206349	0.10069493
93_78	11/19/20	100	2100	2200	0.2	110	2200	2310	0.18	0.19	3538	0.03841483	0.80048283	0.62561255	1.13861485	0.16686942
93_79	12/10/20	110	2100	2210	0.21	67	1600	1667	0.21	0.21	3559	0.0376788	0.79942617	0.62457323	1.13672327	0.18474153
93_80	1/26/21	48	1100	1148	0.19	28	700	728	0.19	0.19	3606	0.03608221	0.79706631	0.62226678	1.13252553	0.16776664
93_81	2/15/21	70	1600	1670	0.17	39	940	979	0.16	0.165	3626	0.03542349	0.79606423	0.62129337	1.13075394	0.14592034
93_82	4/19/21	58	1300	1358	0.14	66	1800	1866	0.17	0.155	3689	0.03342613	0.79291591	0.61825763	1.12522889	0.13774975
93_83	5/12/21	81	2300	2381	0.19	85	2400	2485	0.17	0.18	3712	0.03272533	0.79176963	0.61716058	1.12323225	0.16025181
93_84	6/3/21	66	1700	1766	0.17	22	810	832	0.17	0.17	3734	0.03206876	0.79067474	0.61611669	1.12133238	0.15160536
93_85	7/19/21	70	1900	1970	0.19	23	570	593	0.16	0.175	3780	0.03073819	0.78839031	0.61395094	1.11739071	0.15661487
93_86	8/30/21	72	1800	1872	0.16	76	1800	1876	0.18	0.17	3822	0.02957159	0.78631028	0.61199297	1.1138272	0.15262691
93_87	9/17/21	69	2000	2069	0.18	47	1300	1347	0.18	0.18	3840	0.02908528	0.78542053	0.61115938	1.11231007	0.16182538
93_88	10/15/21	34	1300	1334	0.16	58	1900	1958	0.18	0.17	3868	0.02834463	0.78403846	0.60986916	1.10996187	0.15315841
93_89	12/18/21	33	750	783	0.19	71	1700	1771	0.18	0.185	3932	0.02672178	0.78088858	0.6069489	1.104647	0.16747432
93_90	1/12/22				0.19				0.16	0.175	3957	0.02611339	0.7796616	0.60581877	1.10259016	0.15871718
93_91	2/16/22	33	1200	1233	0.19	54	1300	1354	0.18	0.185	3992	0.02528484	0.77794706	0.60424629	1.09972825	0.16822338
93_92	4/26/22	38	1300	1338	0.17	27	1100	1127	0.17	0.17	4061	0.02372763	0.77457801	0.60117847	1.09414481	0.15537249
93_93	5/19/22	60	2000	2060	0.18	130	4400	4530	0.17	0.175	4084	0.02323017	0.77345824	0.60016508	1.09230044	0.16021233
93_94	6/6/22	41	1600	1641	0.18	46	1700	1746	0.17	0.175	4102	0.02284814	0.77258303	0.59937513	1.09086273	0.16042348
93_95	7/11/22	48	1900	1948	0.13	49	1700	1749	0.1	0.115	4137	0.0221232	0.77088405	0.59784686	1.08808129	0.10569063
93_96	8/9/22	53	2300	2353	0.17	32	1800	1832	0.16	0.165	4166	0.02153999	0.76947917	0.59658819	1.08579051	0.15196302
93_97	9/15/22	48	1600	1648	0.14	49	1600	1649	0.14	0.14	4203	0.02081816	0.76769044	0.59499209	1.0828856	0.1292842
93_98	10/13/22	34	1100	1134	0.19	16	790	806	0.17	0.18	4231	0.02028803	0.76633957	0.59379137	1.08070029	0.16655867
93_99	12/21/22	35	1100	1135	0.18	37	1200	1237	0.16	0.17	4300	0.01903856	0.76302079	0.59085795	1.07536147	0.15808638
93_100	1/18/23	44	1600	1644	0.16	28	1400	1428	0.16	0.16	4328	0.01855375	0.76167814	0.58967765	1.07321332	0.14908499
93_101	2/2/23	36	1600	1636	0.16	20	810	830	0.15	0.155	4343	0.01829913	0.76095984	0.58904768	1.07206677	0.14458055
93_102	4/26/23	61	2400	2461	0.15	29	1100	1129	0.15	0.15	4426	0.01695209	0.75699745	0.58559048	1.06577467	0.1407427
93_103	5/16/23	38	1800	1838	0.14	23	1300	1323	0.14	0.14	4446	0.01664262	0.75604574	0.5847645	1.06427138	0.1315454
93_104	6/27/23	36	2100	2136	0.16	41	1900	1941	0.13	0.145	4488	0.01601098	0.75405106	0.58303861	1.06113026	0.13664675
93_105	7/13/23	21	1200	1221	0.14	35	1500	1535	0.15	0.145	4504	0.01577672	0.75329256	0.58238416	1.05993918	0.1368003
93_106	8/18/23	53	2800	2853	0.16	36	1400	1436	0.12	0.14	4540	0.01526208	0.75158873	0.58091769	1.0572702	0.13241648
93_107	9/14/23	22	1100	1122	0.14	42	1900	1942	0.15	0.145	4567	0.01488714	0.75031339	0.57982322	1.05527826	0.13740452
93_108	10/13/23	44	2200	2244	0.12	29	1700	1729	0.09	0.105	4596	0.01449469	0.748946	0.57865271	1.05314794	0.09970109
93_109	12/4/23	41	2300	2341	0.16	32	1200	1232	0.16	0.16	4648	0.0138167	0.74650034	0.57656668	1.04935135	0.15247515
93_110	1/17/24	22	1400	1422	0.14	8.6	200	200	0.14	0.14	4692	0.01326785	0.74443719	0.57481409	1.04616164	0.13382253
93_111	2/2/24	9.4	700	709.4	0.15	9.1	420	429.1	0.18	0.165	4708	0.01307372	0.74368836	0.57417956	1.0450068	0.15789371
93_112	4/25/24	38	2400	2438	0.17	46	2400	2446	0.16	0.165	4791	0.01211134	0.73981591	0.57091114	1.03905828	0.15879764
93_113	5/21/24	39	2000	2039	0.16	27	1600	1627	0.16	0.16	4817	0.0118247	0.738607	0.5698951	1.03720909	0.15426012
93_114	6/13/24	11	750	761	0.13	7.9	220	220	0.14	0.135	4840	0.01157679	0.73753923	0.56899933	1.03557877	0.13036188
93_115	7/2/24	9.1	640	640	0.13	7.4	240	240	0.12	0.125	4859	0.01137592	0.73665832	0.56826145	1.03423584	0.12086218
93_116	8/22/24	17	1100	1117	0.14	40	2300	2340	0.13	0.135	4910	0.01085381	0.73429898	0.56629014	1.03064805	0.13098555
93_117	9/25/24	17	1700	1717	0.14	9.6	480	489.6	0.14	0.14	4944	0.01051912	0.73273029	0.56498332	1.02826964	0.13615106

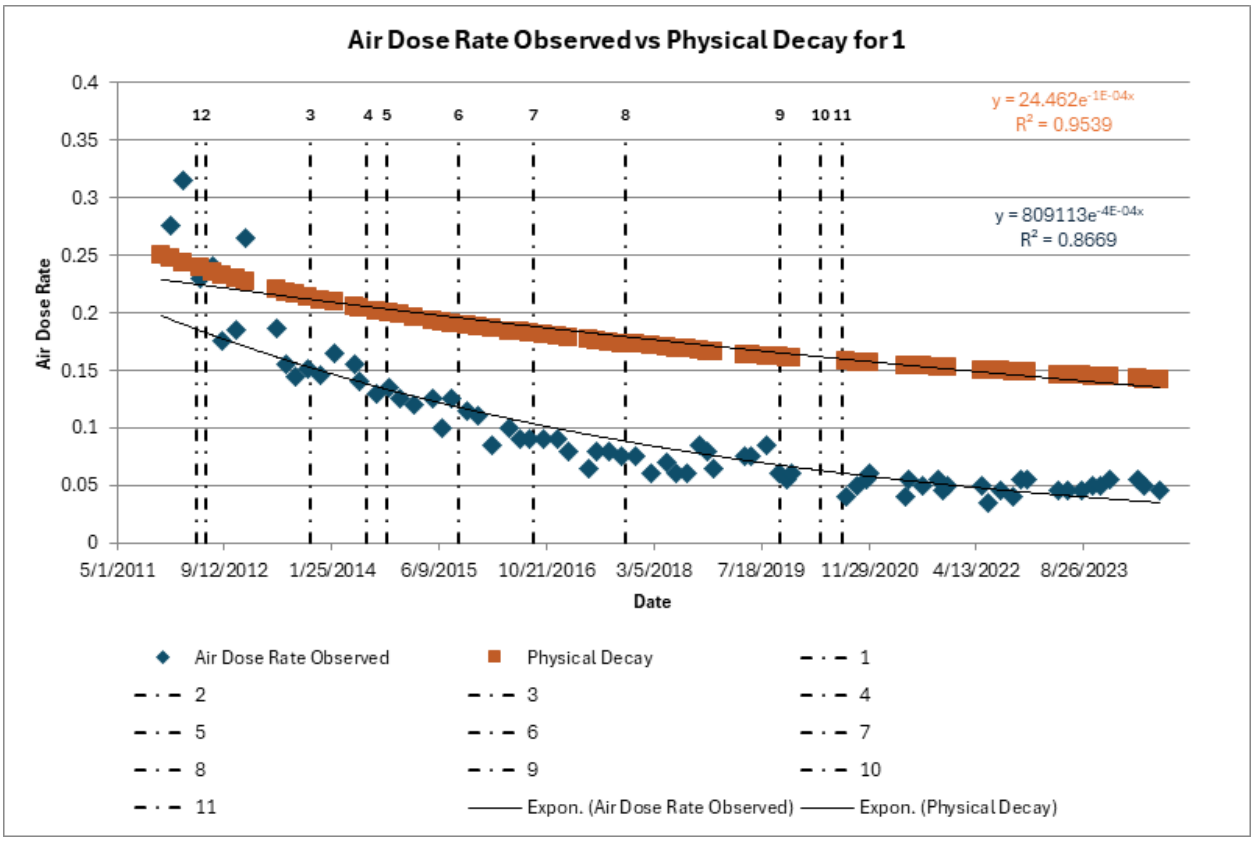
UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
94_1	11/15/11	4200	5300	9500	1.96	1000	1300	2300	1.46	1.71	246	0.79722161	0.9846457	1.00318809	1.71545164	0.99682204
94_2	1/19/12	990	1200	2190	0.6	4000	5400	9400	1.04	0.82	311	0.75088518	0.98062819	0.98567272	1.68550035	0.48650242
94_3	3/4/12	1600	2200	3800	0.49	790	1000	1790	0.34	0.415	356	0.72039336	0.97785645	0.97404855	1.66562301	0.24915602
94_4	4/29/12	7.4	320	460	0.68	5.7	120	170	0.58	0.63	412	0.68417143	0.97441811	0.96012821	1.64181924	0.38372068
94_5	5/8/12	16	1200	1800	0.64	11	650	930	0.54	0.59	421	0.67852237	0.97386664	0.95794556	1.63808691	0.36017625
94_6	6/5/12	18	1300	2000	0.71	17	1000	1500	0.62	0.665	449	0.66124407	0.97215298	0.95124902	1.62663583	0.40881923
94_7	7/11/12	27	3900	6100	0.57	17	1700	2600	0.57	0.57	485	0.63967404	0.96995413	0.9428435	1.61226239	0.35354047
94_8	8/9/12	15	1300	2100	0.64	13	1000	1600	0.73	0.685	514	0.62281097	0.96818645	0.93623492	1.60096171	0.42786782
94_9	8/28/12	13	830	1300	0.64	14	1100	1800	0.62	0.63	533	0.61200453	0.96703006	0.93198182	1.59368891	0.39530927
94_10	10/18/12	9.4	450	730	0.76	18	1900	3200	0.6	0.68	584	0.5839159	0.96393289	0.92085686	1.57466523	0.43183782
94_11	11/13/12	14	800	1400	0.5	17	1400	2400	0.74	0.62	610	0.57009612	0.96235777	0.91534399	1.56523822	0.39610584
94_12	12/6/12	27	3600	6600	0.64	12	730	1200	0.64	0.64	633	0.55814383	0.96096653	0.91055388	1.55704713	0.41103444
94_13	12/27/12	21	1900	3600	0.56	12	660	1200	0.53	0.545	654	0.54744985	0.95969803	0.90624986	1.54968727	0.35168386
94_14	2/13/13	20	1700	3200	0.49	11	570	1100	0.5	0.495	702	0.52376956	0.95680488	0.89665467	1.53327949	0.32283742
94_15	4/24/13	1100	2200	3300	0.548	830	1700	2530	0.424	0.486	772	0.4910597	0.95260132	0.88324188	1.51034361	0.32178108
94_16	6/14/13	960	1900	2860	0.506	570	1200	1770	0.466	0.486	823	0.46852197	0.94955037	0.87388167	1.49433765	0.3252277
94_17	6/21/13	1200	2400	3600	0.518	1200	2500	3700	0.622	0.57	830	0.46551037	0.94913238	0.87262301	1.49218534	0.38199008
94_18	7/10/13	970	2000	2970	0.45	1100	2400	3500	0.466	0.458	849	0.45743327	0.94799875	0.86923764	1.48639637	0.30812777
94_19	8/8/13	2200	4800	7000	0.454	600	1200	1800	0.46	0.457	878	0.44537443	0.94627108	0.86415643	1.4777075	0.30926283
94_20	9/13/13	1800	4000	5800	0.492	880	1900	2780	0.526	0.509	914	0.43084615	0.94413077	0.85798957	1.46716216	0.34692825
94_21	10/7/13	780	1900	2680	0.394	830	1900	2730	0.318	0.356	938	0.42142488	0.94270658	0.85396271	1.46027623	0.24378949
94_22	12/13/13	1700	4200	5900	0.468	700	1700	2400	0.41	0.439	1005	0.3962	0.93874209	0.84306504	1.44164121	0.30451405
94_23	1/6/14	340	870	1210	0.428	1700	4100	5800	0.504	0.466	1029	0.38753633	0.93732604	0.83928043	1.43516954	0.32470031
94_24	4/28/15	620	2200	2820	0.42	470	1700	2170	0.35	0.385	1506	0.24973064	0.90962086	0.77511006	1.3254382	0.29046998
94_25	5/13/15	230	800	1030	0.36	320	1200	1520	0.45	0.405	1521	0.24630348	0.90876304	0.77338476	1.32248795	0.30624098
94_26	6/25/15	510	1900	2410	0.33	1300	5100	6400	0.49	0.41	1564	0.23673741	0.90630843	0.76852288	1.31417412	0.31198301
94_27	7/23/15	770	3100	3870	0.3	240	1000	1240	0.41	0.355	1592	0.23070899	0.90471364	0.76542224	1.30887203	0.27122591
94_28	8/5/15	980	3800	4780	0.33	1900	7400	9300	0.38	0.355	1605	0.2279625	0.90397416	0.76399972	1.30643952	0.27173091
94_29	9/28/15	820	3300	4120	0.24	320	1300	1620	0.25	0.245	1659	0.21689963	0.90090893	0.75820342	1.29652786	0.18896624
94_30	10/25/15	610	2400	3010	0.27	410	1700	2110	0.28	0.275	1686	0.21157118	0.89938022	0.75537151	1.29168527	0.21290016
94_31	12/15/15	180	830	1010	0.27	480	2100	2580	0.3	0.285	1737	0.20186088	0.89649972	0.7501382	1.28273633	0.22218128
94_32	1/17/16	120	580	700	0.29	260	1200	1460	0.24	0.265	1770	0.19581654	0.89464078	0.74683011	1.27707949	0.2075047
94_33	2/5/16	660	3100	3760	0.24	510	2300	2810	0.29	0.265	1789	0.19241891	0.89357224	0.74495248	1.27386873	0.20802771
94_34	4/27/16	350	1800	2150	0.26	940	4800	5740	0.35	0.305	1871	0.17841886	0.88897524	0.73706689	1.26038439	0.24198967
94_35	5/20/16	590	2900	3490	0.26	260	1500	1760	0.27	0.265	1894	0.17467824	0.88769009	0.73491636	1.25670697	0.21086857
94_36	6/14/16	290	1500	1790	0.25	430	2300	2730	0.29	0.27	1919	0.17070124	0.88629529	0.73260813	1.2527599	0.21552414
94_37	7/16/16	240	1300	1540	0.24	160	760	920	0.32	0.28	1951	0.16574253	0.88451315	0.72969712	1.24778208	0.22439816
94_38	8/11/16	330	1800	2130	0.27	460	2500	2960	0.24	0.255	1977	0.16181983	0.8830678	0.72736705	1.24379766	0.20501727
94_39	9/4/16	520	2800	3320	0.23	190	970	1160	0.27	0.25	2001	0.15828133	0.88173572	0.72524352	1.24016641	0.20158585
94_40	10/4/16	440	2600	3040	0.22	350	2000	2350	0.22	0.22	2031	0.15396682	0.88007346	0.7226251	1.23568892	0.17803834
94_41	12/7/16	370	2000	2370	0.2	310	1600	1910	0.21	0.205	2095	0.14515156	0.87653776	0.71716836	1.22635789	0.16716164
94_42	1/14/17	520	2900	3420	0.21	230	1600	1830	0.2	0.205	2133	0.14015819	0.87444516	0.71400856	1.22095463	0.16790141
94_43	2/5/17	460	2800	3260	0.21	340	2200	2540	0.22	0.215	2155	0.13734618	0.87323594	0.71220553	1.21787146	0.17653751
94_44	4/28/17	200	1300	1500	0.23	160	1100	1260	0.28	0.255	2237	0.12735313	0.86874356	0.70564848	1.2066589	0.21132733
94_45	5/14/17	130	970	1100	0.17	290	2100	2390	0.21	0.19	2253	0.12548975	0.86786969	0.70439807	1.2045207	0.15773909
94_46	6/10/17	320	2300	2620	0.19	1300	9600	10900	0.18	0.185	2280	0.12240692	0.86639704	0.70230872	1.20094791	0.15404498
94_47	7/20/17	150	1100	1250	0.2	460	3300	3760	0.2	0.2	2320	0.11797841	0.86421992	0.69926011	1.19573479	0.16726117
94_48	8/11/17	180	1300	1480	0.19	410	3000	3410	0.22	0.205	2342	0.11561141	0.86302484	0.69760655	1.19290721	0.17184907
94_49	9/3/17	180	1500	1680	0.19	400	3300	3700	0.24	0.215	2365	0.11318757	0.86177721	0.69589501	1.18998046	0.18067524
94_50	10/13/17	94	780	874	0.16	130	1100	1230	0.19	0.175	2405	0.10909261	0.8596117	0.69295921	1.18496024	0.14768428
94_51	12/10/17	120	1100	1220	0.17	230	2000	2230	0.16	0.165	2463	0.10341663	0.85648138	0.68879124	1.17783302	0.14008777
94_52	1/12/18	93	810	903	0.16	210	1600	1810	0.27	0.215	2496	0.10032001	0.85470543	0.68646509	1.1738553	0.18315716
94_53	2/9/18	110	1100	1210	0.14	77	870	947	0.2	0.17	2524	0.0977654	0.85320144	0.68451628	1.17052285	0.14523424
94_54	4/27/18	180	1700	1880	0.23	410	3800	4210	0.3	0.265	2601	0.09107069	0.84907912	0.67927048	1.16155252	0.22814293
94_55	5/16/18	150	1600	1750	0.14	170	1600	1770	0.16	0.15	2620	0.08949052	0.848065	0.67800077	1.15938132	0.12937935
94_56	6/2/18	90	980	1070	0.15	110	1000	1110	0.13	0.14	2637	0.08809993	0.84715864	0.67687275	1.1574524	0.1209553
94_57	7/19/18	140	1600	1740	0.17	340	3500	3840	0.21	0.19	2684	0.0843668	0.84465789	0.67379267	1.15218547	0.16490401
94_58	8/15/18	190	2000	2190	0.21	470	5200	5670	0.21	0.21	2711	0.08229421	0.84322462	0.67204825	1.1492025	0.18273542
94_59	9/3/18	240	2600	2840	0.19	200	2300	2500	0.21	0.2	2730	0.08086632	0.84221749	0.67083134	1.14712159	0.17434943
94_60	10/13/18	87	910	997	0.15	45	530	575	0.17	0.16	2770	0.07794069	0.84010113	0.66829751	1.14278874	0.14000838
94_61	12/12/18	180	2000	2180	0.14	110	1200	1310	0.13	0.135	2830	0.07374951	0.83693656	0.66456586	1.13640762	0.1187954
94_62	1/24/19	290	3300	3590	0.24	110	1400	1510	0.2	0.22	2873	0.07088519	0.83467596	0.66194055	1.13191834	0.19436031
94_63	2/10/19	100	1300	1400	0.19	140	1700	1840	0.21	0.2	2890	0.06978371	0.83378392	0.66091356	1.13016219	0.17696575
94_64	4/27/19	100	1300	1400	0.2	210	2600	2810	0.28	0.24	2966	0.06506502	0.82980761	0.6563953	1.12243596	0.21382066
94_65	5/16/19	71	990	1061	0.13	72	1100	1172	0.15	0.14	2985	0.06393607	0.8288165	0.65528381	1.12053531	0.12494028
94_66	6/11/19	27	430	457	0.12	110	1600	1710	0.13	0.125	3011	0.06242287	0.82746216	0.65377416	1.11795382	0.11181142
94_67	7/13/19	160	2200	2360	0.18	82	1200	1282	0.16	0.17	3043	0.06060955	0.82579832	0.65193375	1.11480672	0.1524928
94_68	8/11/19	160	2500	2660	0.18	300	4400	4700	0.17	0.175	3072	0.05901176	0.82429335	0.65028228	1.1119827	0.15737655
94_69	9/4/19	170	2700	2870	0.16	130	1900	2030	0.23	0.195	3096	0.05772135	0.82304994	0.64892708	1.10966531	0.17572866
94_70	11/20/19	25	400	425	0.09	360	5700	6060	0.1	0.095	3173	0.05376875	0.8190733	0.64464723	1.10234676	0.08617978
94_71	12/11/19	20	340	360	0.1	29	470	499	0.12	0.11	3194	0.05273855	0.8179921	0.64349744	1.10038062	0.09996541
94_72	1/18/20	24	380	404	0.13	170	3100	3270	0.22	0.175	3232	0.05092428	0.81603927	0.6414352	1.09685419	0.15954719
94_73	2/6/20	22	390	412	0.14	170	2800	2970	0.18	0.16	3251	0.05004069	0.8150646	0.64041275	1.09510581	0.1461046
94_74	8/10/20	26	500	526	0.12	290	5900	6190	0.17	0.145	3437	0.04216067	0.8055844	0.63069036	1.07848052	0.13444842
94_75	8/26/20	24	490	514	0.12	42	890	932	0.15	0.135	3453	0.04154379	0.80477407	0.62987698	1.07708964	0.12533776
94_76	9/30/20	23	410	433	0.13	200	4000	4200	0.17	0.15	3488	0.04022566	0.80300431	0.62810965	1.0740675	0.13965603
94_77	10/16/20	19	360	379	0.09	69	1400	1469	0.09	0.09	3504	0.03963709	0.80219657	0.62730708	1.07269511	0.08390082
94_78	11/19/20	22	430	452	0.14	170	3500	3670	0.19	0.165	3538	0.03841483	0.80048283	0.62561255	1.06979747	0.1542348
94_79	12/10/20	21	370	391	0.13	180	4100	4280	0.21	0.17	3559	0.0376788	0.79942617	0.62457323	1.06802022	0.15917302
94_80	1/26/21	24	410	434	0.13	79	1700	1779	0.21	0.17	3606	0.03608221	0.79706631	0.62226678	1.06407619	0.159763
94_81	2/15/21	19	430	449	0.11	31	710	741	0.13	0.12	3626	0.03542349	0.79606423	0.62129337	1.06241167	0.11295057
94_82	4/19/21	120	2600	2720	0.15	11	300	311	0.14	0.145	3689	0.03342613	0.79291591	0.61825763	1.05722055	0.13715208
94_83	5/12/21	46	1000	1046	0.21	93	2700	2793	0.26	0.235	3712	0.03272533	0.79176963	0.61716058	1.05534459	0.22267608
94_84	6/3/21	9.6	160	160	0.17	10	190	200	0.14	0.155	3734	0.03206876	0.79067474	0.61611669	1.05355955	0.1471203
94_85	7/18/21	11	290	301	0.12	79	2400	2479	0.17	0.145	3779	0.03076652	0.7884399	0.61399778	1.04993621	0.13810363
94_86	8/28/21	47	1100	1147	0.09	12	450	462	0.13	0.11	3820	0.02962613	0.78640921	0.61208579	1.04666671	0.10509554
94_87	9/21/21	8.7	85	85	0.12	91	2300	2391	0.13	0.125	3844	0.0289783	0.78522294	0.61097458	1.04476654	0.11964395
94_88	11/18/21	8.8	67	67	0.12	23	970	993	0.15	0.135	3902	0.02747059	0.78236351	0.60831285	1.04021498	0.12978087
94_89	12/18/21	8.1	140	140	0.14	10	240	250	0.14	0.14	3932	0.02672178	0.78088858	0.6069489	1.03788262	0.13489001
94_90	1/12/22	8.9	99	99	0.08	23	690	713	0.12	0.1	3957	0.02611339	0.7796616	0.60581877	1.03595009	0.09652975
94_91	2/16/22	5.3	120	120	0.13	18	450	468	0.14	0.135	3992	0.02528484	0.77794706	0.60424629	1.03326116	0.13065429
94_92	4/26/22	4.6	44	44	0.13	29	910	939	0.15	0.14	4061	0.02372763	0.77457801	0.60117847	1.02801518	0.13618476
94_93	5/19/22	8.8	100	100	0.13	97	3800	3897	0.15	0.14	4084	0.02323017	0.77345824	0.60016508	1.02628228	0.13641471
94_94	6/6/22	7.2	49	49	0.1	12	180	192	0.12	0.11	4102	0.02284814	0.77258303	0.59937513	1.02493147	0.10732425
94_95	7/11/22	5.5	74	74	0.08	14	460	474	0.09	0.085	4137	0.0221232	0.77088405	0.59784686	1.02231813	0.08314437
94_96	8/9/22	7.6	65	65	0.13	53	1700	1753	0.13	0.13	4166	0.02153999	0.76947917	0.59658819	1.02016581	0.12743027
94_97	9/15/22	6.5	58	58	0.08	23	1000	1023	0.08	0.08	4203	0.02081816	0.76769044	0.59499209	1.01743647	0.07862899
94_98	10/13/22	7.9	84	84	0.1	44	1200	1244	0.11	0.105	4231	0.02028803	0.76633957	0.59379137	1.01538324	0.10340923
94_99	12/21/22	9	210	210	0.09	36	1500	1536	0.07	0.08	4300	0.01903856	0.76302079	0.59085795	1.01036709	0.07917914
94_100	1/18/23	9.7	38	38	0.09	20	880	900	0.12	0.105	4328	0.01855375	0.76167814	0.58967765	1.00834878	0.10413064
94_101	2/2/23	7.3	52	52	0.09	31	1400	1431	0.14	0.115	4343	0.01829913	0.76095984	0.58904768	1.00727152	0.11416981
94_102	4/26/23	7.9	51	51	0.1	44	1800	1844	0.13	0.115	4426	0.01695209	0.75699745	0.58559048	1.00135972	0.11484384
94_103	5/16/23	7.7	75	75	0.22	21	990	1011	0.12	0.17	4446	0.01664262	0.75604574	0.5847645	0.99994729	0.17000896
94_104	6/21/23	8.7	93	93	0.09	160	6600	6760	0.15	0.12	4482	0.01609973	0.75433569	0.58328445	0.99741641	0.12031083
94_105	7/13/23	6.8	80	80	0.1	65	2600	2665	0.11	0.105	4504	0.01577672	0.75329256	0.58238416	0.99587692	0.10543472
94_106	8/28/23	8.1	110	110	0.08	32	1400	1432	0.12	0.1	4550	0.01512212	0.75111613	0.5805118	0.99267518	0.10073789
94_107	9/14/23	6.1	26	26	0.08	42	2600	2642	0.13	0.105	4567	0.01488714	0.75031339	0.57982322	0.9914977	0.1059004
94_108	10/13/23	7.9	140	140	0.08	13	1100	1113	0.11	0.095	4596	0.01449469	0.748946	0.57865271	0.98949614	0.09600846
94_109	12/4/23	8.8	230	230	0.09	36	1800	1836	0.13	0.11	4648	0.0138167	0.74650034	0.57656668	0.98592902	0.1115699
94_110	1/17/24	8.1	150	150	0.08	18	800	818	0.122	0.101	4692	0.01326785	0.74443719	0.57481409	0.98293209	0.10275379
94_111	2/2/24	7.9	210	210	0.09	43	2300	2343	0.11	0.1	4708	0.01307372	0.74368836	0.57417956	0.98184705	0.10184886
94_112	4/24/24	5.7	190	190	0.09	27	1700	1727	0.12	0.105	4790	0.0121225	0.73986244	0.5709503	0.97632501	0.10754615
94_113	5/9/24	9.1	110	110	0.08	30	2100	2130	0.13	0.105	4805	0.01195614	0.73916471	0.57036359	0.97532174	0.10765678
94_114	6/13/24	9.3	180	180	0.08	23	1000	1023	0.11	0.095	4840	0.01157679	0.73753923	0.56899933	0.97298885	0.0976373
94_115	7/2/24	8.1	130	130	0.08	9.1	400	400	0.11	0.095	4859	0.01137592	0.73665832	0.56826145	0.97172708	0.09776408
94_116	8/22/24	5.3	7.1	7.1	0.1	7.4	460	467.4	0.11	0.105	4910	0.01085381	0.73429898	0.56629014	0.96835613	0.10843118
94_117	9/25/24	9.7	61	61	0.07	16	1200	1216	0.11	0.09	4944	0.01051912	0.73273029	0.56498332	0.96612147	0.09315599

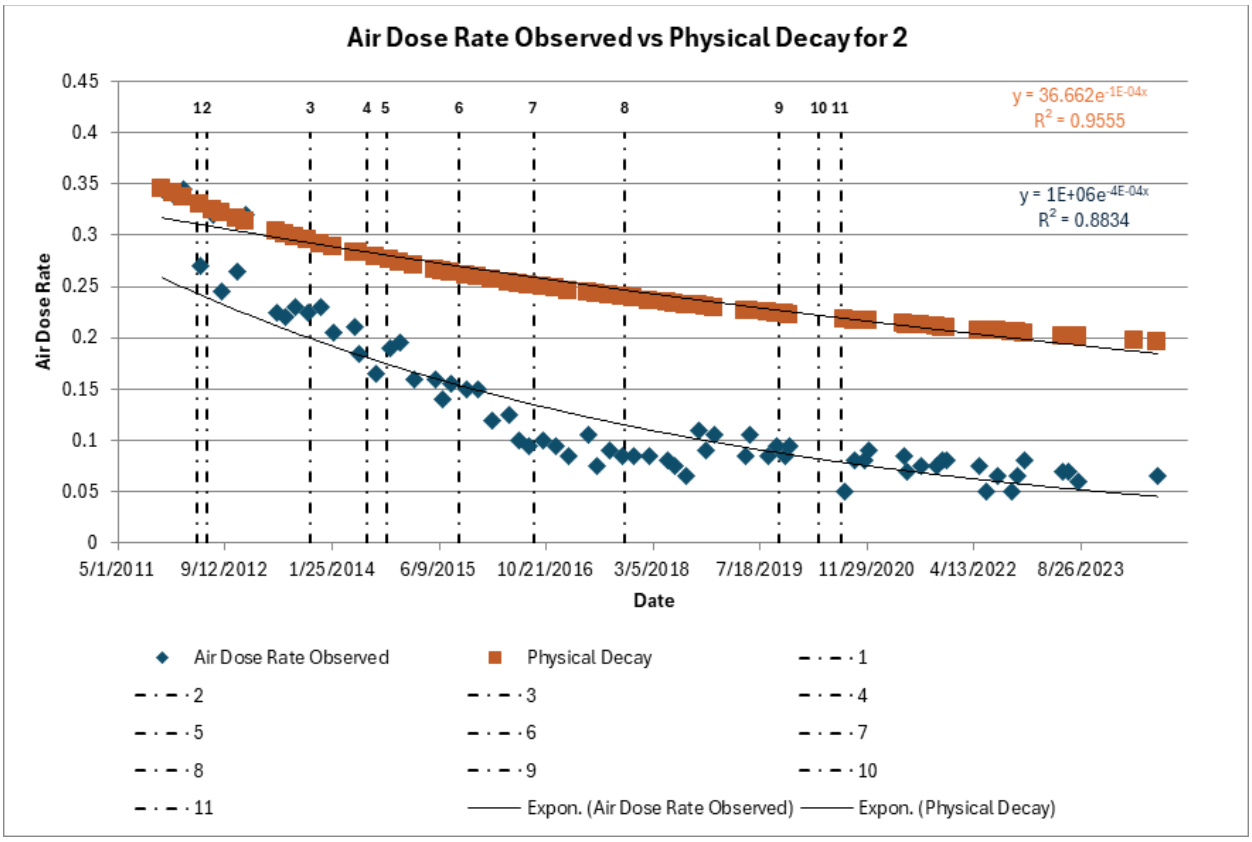
UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Phy
95_1	11/26/11	1700	2200	3900	0.37	2700	3400	6100	0.38	0.375	257	0.78918374	0.98396466	1.00016191	0.37506071	0.99983812
95_2	1/19/12	1200	1700	2900	0.6	1200	1600	2800	0.62	0.61	311.000498	0.75088483	0.98062816	0.98567259	0.36962722	1.65031136
95_3	5/21/12	19	1500	2200	0.51	17	1300	1900	0.54	0.525	434	0.67044486	0.97307064	0.9548189	0.35805709	1.46624664
95_4	7/23/12	13	780	1300	0.55	25	1700	2700	0.55	0.55	497	0.63264154	0.96922228	0.94009158	0.35253434	1.56013169
95_5	8/20/12	28	3100	5000	0.53	34	5200	8300	0.53	0.53	525	0.61653157	0.96751679	0.93376529	0.35016198	1.51358521
95_6	10/30/12	22	2400	4100	0.47	22	2100	3600	0.51	0.49	596	0.57749639	0.96320559	0.91829939	0.34436227	1.4229201
95_7	12/21/12	16	650	1100	0.47	26	2400	4300	0.43	0.45	648	0.55048419	0.96006028	0.90747288	0.34030233	1.32235356
95_8	1/24/13	37	4500	8300	0.39	27	1900	3400	0.37	0.38	682	0.53350926	0.95800929	0.90061226	0.3377296	1.12516049
95_9	5/9/13	970	1900	2870	0.362	1500	3000	4500	0.35	0.356	787	0.48432069	0.95170297	0.88045374	0.33017015	1.07823192
95_10	6/19/13	710	1500	2210	0.356	2200	4600	6800	0.374	0.365	828	0.46636885	0.94925178	0.87298199	0.32736825	1.11495236
95_11	8/2/13	3100	6600	9700	0.368	1800	3900	5700	0.374	0.371	872	0.447843	0.94662827	0.86519931	0.32444974	1.14347449
95_12	10/1/13	590	1400	1990	0.282	930	2200	3130	0.254	0.268	932	0.4237607	0.94306243	0.8549632	0.3206112	0.83590343
95_13	12/2/13	1100	2700	3800	0.376	570	1300	1870	0.346	0.361	994	0.40023531	0.93939183	0.84482028	0.3168076	1.13949285
95_14	2/3/14	920	2300	3220	0.32	1200	3000	4200	0.296	0.308	1057	0.37766787	0.93567667	0.83494163	0.31310311	0.98370149
95_15	5/7/15	510	1800	2310	0.26	1100	4100	5200	0.3	0.28	1515	0.24766867	0.90910607	0.77407304	0.29027739	0.96459459
95_16	6/11/15	600	2500	3100	0.28	950	3400	4350	0.32	0.3	1550	0.23981044	0.90710688	0.77009233	0.28878462	1.03883648
95_17	8/5/15	960	3700	4660	0.25	1400	5300	6700	0.27	0.26	1605	0.2279625	0.90397416	0.76399972	0.28649989	0.9075047
95_18	10/19/15	700	2900	3600	0.25	790	3200	3990	0.24	0.245	1680	0.21274385	0.89971971	0.75599709	0.28349891	0.86420086
95_19	12/3/15	710	3000	3710	0.21	1000	4500	5500	0.22	0.215	1725	0.20410479	0.89717665	0.7513562	0.28175857	0.76306462
95_20	1/11/16	620	3000	3620	0.2	750	3400	4150	0.2	0.2	1764	0.19690188	0.89497849	0.74742712	0.28028517	0.71355898
95_21	5/18/16	390	1900	2290	0.25	750	3800	4550	0.26	0.255	1892	0.17500038	0.88780176	0.73510233	0.27566337	0.92504128
95_22	6/8/16	360	1800	2160	0.24	450	2500	2950	0.24	0.24	1913	0.17164739	0.88662984	0.73315935	0.27493476	0.87293437
95_23	8/9/16	540	3100	3640	0.23	1200	7000	8200	0.25	0.24	1975	0.16211825	0.88317889	0.72754519	0.27282945	0.87967044
95_24	10/26/16	680	3900	4580	0.25	740	4400	5140	0.28	0.265	2053	0.15087778	0.87885645	0.72072979	0.27027367	0.98048766
95_25	12/11/16	140	900	1040	0.22	320	1900	2220	0.23	0.225	2099	0.14461767	0.87631725	0.71683299	0.26881237	0.83701505
95_26	1/13/17	270	1700	1970	0.2	350	2300	2650	0.19	0.195	2132	0.14028736	0.87450016	0.71409097	0.26778411	0.72819854
95_27	5/10/17	330	2300	2630	0.23	290	2400	2690	0.23	0.23	2249	0.12595302	0.86808808	0.70470981	0.26426618	0.87033461
95_28	6/9/17	420	3000	3420	0.21	380	2600	2980	0.22	0.215	2279	0.12251973	0.86645154	0.70238565	0.26339462	0.81626573
95_29	8/11/17	610	4900	5510	0.2	400	3000	3400	0.21	0.205	2342	0.11561141	0.86302484	0.69760655	0.26160246	0.78363178
95_30	10/8/17	180	1400	1580	0.17	340	2800	3140	0.2	0.185	2400	0.10959626	0.85988209	0.69332339	0.25999627	0.71154866
95_31	12/7/17	150	1400	1550	0.17	160	1300	1460	0.19	0.18	2460	0.10370284	0.85664301	0.68900431	0.25837662	0.69665747
95_32	1/10/18	390	3600	3990	0.19	300	2500	2800	0.16	0.175	2494	0.10050502	0.85481296	0.68660515	0.25747693	0.67967254
95_33	5/8/18	140	1100	1240	0.18	120	1200	1320	0.21	0.195	2612	0.09015249	0.84849185	0.67853422	0.25445033	0.76635781
95_34	6/6/18	150	1500	1650	0.19	69	820	889	0.19	0.19	2641	0.08777589	0.84694553	0.67660842	0.25372816	0.74883293
95_35	8/11/18	230	2400	2630	0.2	290	3000	3290	0.18	0.19	2707	0.08259802	0.8434368	0.67230555	0.25211458	0.75362559
95_36	10/4/18	270	3200	3470	0.22	260	3000	3260	0.21	0.215	2761	0.07858959	0.84057685	0.66886435	0.25082413	0.85717431
95_37	11/3/18	210	2500	2710	0.19	200	2000	2200	0.21	0.2	2791	0.07644736	0.83899217	0.66698216	0.25011831	0.79962159
95_38	12/5/18	250	2800	3050	0.2	190	2400	2590	0.2	0.2	2823	0.07422663	0.83730515	0.66499706	0.2493739	0.80200856
95_39	5/7/19	240	2900	3140	0.19	180	2200	2380	0.2	0.195	2976	0.06446838	0.82928583	0.65580942	0.24592853	0.79291328
95_40	6/7/19	150	2100	2250	0.18	160	2400	2560	0.19	0.185	3007	0.06265332	0.82767038	0.65400557	0.24525209	0.75432589
95_41	8/25/19	190	2800	2990	0.18	160	2400	2560	0.16	0.17	3086	0.05825556	0.8235678	0.64949049	0.24355893	0.69798302
95_42	10/2/19	320	5100	5420	0.18	160	2500	2660	0.16	0.17	3124	0.0562515	0.82160166	0.64735892	0.2427596	0.70028128
95_43	11/1/19	120	1800	1920	0.17	130	2000	2130	0.17	0.17	3154	0.05471817	0.82005276	0.64569385	0.2421352	0.70208711
95_44	12/3/19	84	1300	1384	0.16	99	1700	1799	0.18	0.17	3186	0.05312866	0.81840382	0.64393459	0.24147547	0.70400525
95_45	8/13/20	63	1500	1563	0.14	80	1400	1480	0.15	0.145	3440	0.04204431	0.8054324	0.63053759	0.2364516	0.61323333
95_46	10/3/20	120	2400	2520	0.15	100	2000	2100	0.14	0.145	3491	0.04011464	0.8028528	0.62795891	0.23548459	0.61575154
95_47	11/9/20	180	3600	3780	0.15	110	2100	2210	0.14	0.145	3528	0.03877035	0.80098649	0.62610942	0.23479103	0.61757044
95_48	12/19/20	150	3300	3450	0.15	140	2700	2840	0.15	0.15	3568	0.0373677	0.79897374	0.62412948	0.23404855	0.64089266
95_49	5/27/21	30	1100	1130	0.15	47	1000	1047	0.16	0.155	3727	0.03227623	0.79102295	0.61644826	0.2311681	0.67050774
95_50	6/8/21	80	1900	1980	0.16	190	3400	3590	0.16	0.16	3739	0.03192139	0.79042611	0.61588018	0.23095507	0.69277544
95_51	8/27/21	92	2300	2392	0.15	60	2300	2360	0.15	0.15	3819	0.02965343	0.78645868	0.61213222	0.22954958	0.6534536
95_52	10/9/21	62	1500	1562	0.15	48	1200	1248	0.16	0.155	3862	0.02850174	0.78433441	0.61014498	0.22880437	0.67743462
95_53	11/19/21	56	1700	1756	0.15	36	1200	1236	0.15	0.15	3903	0.02744529	0.7823143	0.60826725	0.22810022	0.65760568
95_54	12/13/21	56	2000	2056	0.15	30	830	860	0.16	0.155	3927	0.02684515	0.78113421	0.60717563	0.22769086	0.68074757
95_55	5/16/22	120	3200	3320	0.14	65	2900	2965	0.14	0.14	4081	0.02329446	0.7736042	0.600297	0.22511138	0.62191437
95_56	6/14/22	37	1200	1237	0.15	26	1100	1126	0.15	0.15	4110	0.02268037	0.77219436	0.59902491	0.22463434	0.66775186
95_57	8/15/22	80	3000	3080	0.14	71	3000	3071	0.14	0.14	4172	0.02142126	0.76918882	0.59632862	0.22362323	0.62605302
95_58	10/11/22	110	4400	4510	0.14	73	2700	2773	0.14	0.14	4229	0.02032545	0.76643599	0.59387693	0.22270385	0.62863754
95_59	11/8/22	110	3900	4010	0.15	91	4000	4091	0.16	0.155	4257	0.01980787	0.76508733	0.59268181	0.22225568	0.697395
95_60	12/17/22	69	2800	2869	0.15	55	2700	2755	0.15	0.15	4296	0.01910884	0.76321279	0.59102703	0.22163514	0.67678799
95_61	5/12/23	91	3800	3891	0.14	75	3900	3975	0.14	0.14	4442	0.01670406	0.75623599	0.58492948	0.21934855	0.63825358
95_62	6/27/23	100	5000	5100	0.15	68	3400	3468	0.15	0.15	4488	0.01601098	0.75405106	0.58303861	0.21863948	0.68606092
95_63	8/26/23	18	1100	1118	0.14	27	1400	1427	0.14	0.14	4548	0.01515001	0.75121063	0.58059293	0.21772235	0.64302081
95_64	10/27/23	57	3300	3357	0.14	41	3800	3841	0.16	0.15	4610	0.01430895	0.74828676	0.57808949	0.21678356	0.6919344
95_65	11/27/23	34	1900	1934	0.14	65	4000	4065	0.13	0.135	4641	0.01390609	0.7468291	0.57684655	0.21631746	0.62408279
95_66	12/19/23	40	2500	2540	0.15	64	3300	3364	0.15	0.15	4663	0.01362709	0.74579635	0.57596793	0.21598797	0.69448311
95_67	5/28/24	35	3000	3035	0.14	54	3600	3654	0.16	0.15	4824	0.01174869	0.73828186	0.56962218	0.21360832	0.70221985
95_68	6/26/24	54	3700	3754	0.14	79	5300	5379	0.15	0.145	4853	0.01143897	0.73693639	0.56849426	0.21318535	0.68015932
95_69	8/23/24	12	810	822	0.13	14	1100	1114	0.14	0.135	4911	0.01084381	0.7342528	0.56625162	0.21234436	0.63575977

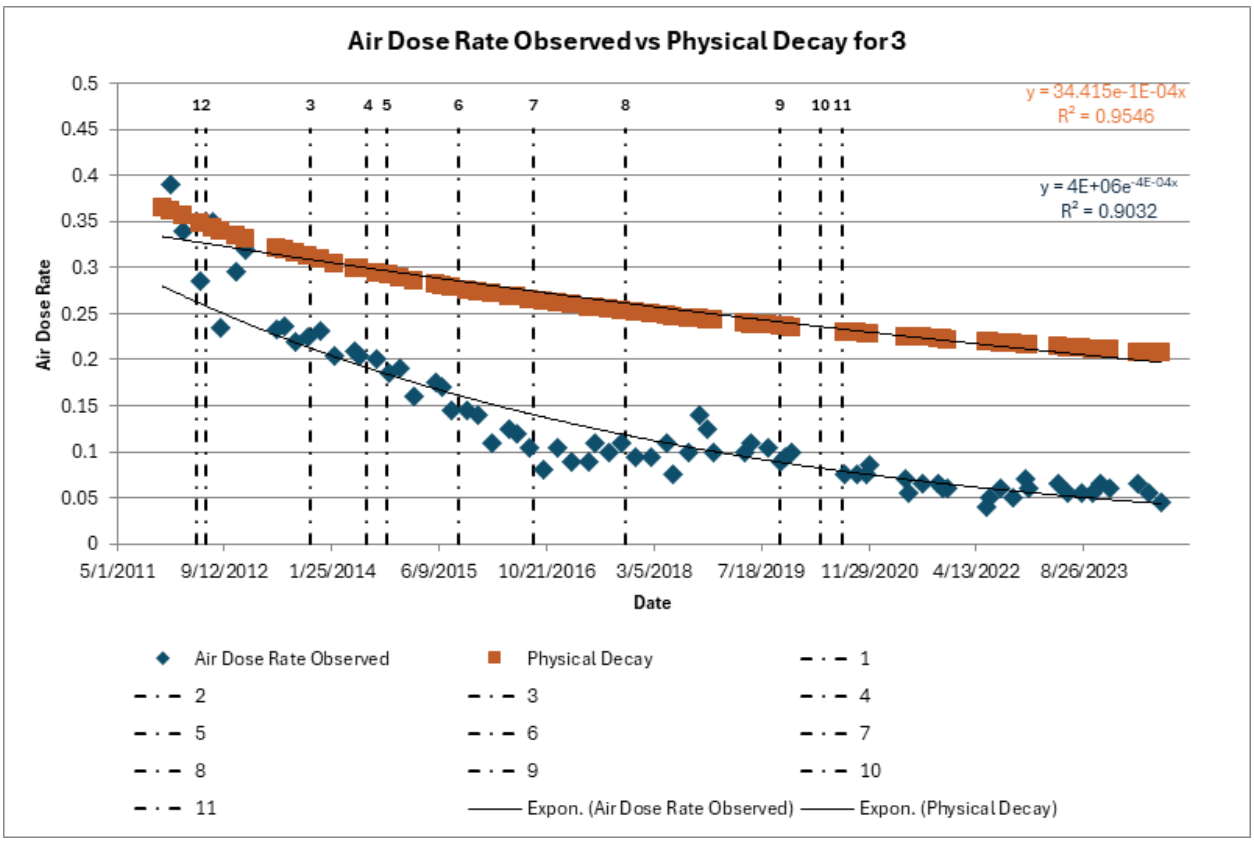
UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
96_1	11/25/11	460	570	1030	0.13	630	800	1430	0.13	0.13	256	0.78991109	0.98402655	1.00043595	0.13005667	0.99956424
96_2	1/17/12	410	500	910	0.21	460	600	1060	0.2	0.205	309	0.75226993	0.98075156	0.9861987	0.12820583	1.59899124
96_3	2/28/12	680	890	1570	0.19	280	410	690	0.2	0.195	351	0.72371926	0.97816403	0.97532048	0.12679166	1.53795601
96_4	5/23/12	4.7	29	41	0.13	7.1	250	380	0.17	0.15	436	0.66921073	0.97294823	0.95434058	0.12406428	1.20905071
96_5	7/23/12	8.9	310	490	0.11	7.1	120	190	0.11	0.11	497	0.63264154	0.96922228	0.94009158	0.12221191	0.90007597
96_6	8/20/12	12	640	1000	0.15	13	840	1400	0.19	0.17	525	0.61653157	0.96751679	0.93376529	0.12138949	1.40045076
96_7	11/19/12	9.4	290	500	0.17	8.5	400	730	0.22	0.195	616	0.56695368	0.96199464	0.91408662	0.11883126	1.64098233
96_8	12/20/12	9.7	310	550	0.15	5.2	100	170	0.2	0.175	647	0.55099155	0.96012067	0.90767724	0.11799804	1.48307547
96_9	5/9/13	170	370	540	0.158	430	860	1290	0.206	0.182	787	0.48432069	0.95170297	0.88045374	0.11445899	1.59008921
96_10	6/18/13	300	590	890	0.174	190	440	630	0.202	0.188	827	0.46679868	0.94931149	0.87316167	0.11351102	1.65622689
96_11	8/1/13	210	380	590	0.158	280	650	930	0.176	0.167	871	0.44825575	0.94668781	0.86537354	0.11249856	1.48446344
96_12	10/2/13	530	1300	1830	0.092	400	880	1280	0.122	0.107	933	0.4233705	0.94300311	0.85479616	0.1111235	0.96289263
96_13	12/3/13	210	510	720	0.166	370	860	1230	0.18	0.173	995	0.39986677	0.93933275	0.84466017	0.10980582	1.57550844
96_14	2/4/14	240	580	820	0.152	230	580	810	0.162	0.157	1058	0.37732012	0.93561782	0.83478818	0.10852246	1.44670509
96_15	5/7/15	200	710	910	0.15	220	790	1010	0.16	0.155	1515	0.24766867	0.90910607	0.77407304	0.10062949	1.54030387
96_16	6/11/15	230	830	1060	0.15	180	660	840	0.15	0.15	1550	0.23981044	0.90710688	0.77009233	0.100112	1.49832184
96_17	8/5/15	250	1000	1250	0.12	190	690	880	0.14	0.13	1605	0.2279625	0.90397416	0.76399972	0.09931996	1.30890101
96_18	10/18/15	200	820	1020	0.13	150	730	880	0.13	0.13	1679	0.21293993	0.8997763	0.75610156	0.0982932	1.32257365
96_19	12/5/15	120	570	690	0.11	170	770	940	0.13	0.12	1727	0.20372908	0.89706379	0.75115263	0.09764984	1.22888063
96_20	1/10/16	110	490	600	0.11	160	790	950	0.13	0.12	1763	0.19708336	0.89503478	0.74752681	0.09717849	1.23484123
96_21	5/21/16	120	570	690	0.13	100	520	620	0.15	0.14	1895	0.1745174	0.88763425	0.73482345	0.09552705	1.46555351
96_22	6/22/16	100	520	620	0.12	140	740	880	0.13	0.125	1927	0.16944783	0.88584942	0.73187584	0.09514386	1.31379998
96_23	8/13/16	170	1000	1170	0.14	120	640	760	0.15	0.145	1979	0.16152196	0.88295671	0.7271891	0.09453458	1.53383022
96_24	10/25/16	220	1200	1420	0.13	140	770	910	0.15	0.14	2052	0.15101683	0.87891174	0.72081549	0.09370601	1.49403431
96_25	12/8/16	69	320	389	0.13	120	760	880	0.15	0.14	2096	0.1450179	0.87648262	0.71708445	0.09322098	1.50180787
96_26	1/10/17	77	410	487	0.11	78	530	608	0.14	0.125	2129	0.14067561	0.8746652	0.71433843	0.092864	1.3460545
96_27	5/14/17	170	1200	1370	0.11	86	570	656	0.15	0.13	2253	0.12548975	0.86786969	0.70439807	0.09157175	1.41965182
96_28	6/11/17	91	680	771	0.12	120	990	1110	0.14	0.13	2281	0.1222942	0.86634255	0.70223183	0.09129014	1.42403115
96_29	8/28/17	92	780	872	0.1	98	780	878	0.13	0.115	2359	0.11381493	0.86210251	0.69633982	0.09052418	1.27037885
96_30	10/27/17	31	270	301	0.11	39	330	369	0.12	0.115	2419	0.10769465	0.85885506	0.69194365	0.08995267	1.27845003
96_31	12/5/17	110	800	910	0.11	66	530	596	0.12	0.115	2458	0.10389408	0.85675079	0.68914651	0.08958905	1.28363908
96_32	1/28/18	81	720	801	0.09	68	680	748	0.1	0.095	2512	0.09885217	0.85384568	0.68534872	0.08909533	1.06627357
96_33	5/12/18	150	1300	1450	0.12	58	540	598	0.14	0.13	2616	0.08982089	0.8482784	0.67826729	0.08817475	1.47434502
96_34	6/3/18	120	1200	1320	0.11	77	680	757	0.14	0.125	2638	0.08801881	0.84710536	0.67680663	0.08798486	1.42069894
96_35	8/13/18	44	510	554	0.12	79	810	889	0.12	0.12	2709	0.08244597	0.84333071	0.67217685	0.08738299	1.37326497
96_36	10/7/18	48	480	528	0.13	57	590	647	0.13	0.13	2764	0.07837269	0.84041825	0.66867519	0.08692778	1.49549439
96_37	11/4/18	38	480	518	0.12	45	530	575	0.14	0.13	2792	0.07637696	0.8389394	0.66691978	0.08669957	1.49943072
96_38	12/2/18	36	360	396	0.12	54	620	674	0.13	0.125	2820	0.07443205	0.83746316	0.66518219	0.08647368	1.44552647
96_39	5/7/19	26	330	356	0.11	47	580	627	0.11	0.11	2976	0.06446838	0.82928583	0.65580942	0.08525523	1.2902435
96_40	6/6/19	48	750	798	0.1	30	450	480	0.13	0.115	3006	0.06271106	0.82772244	0.65406347	0.08502825	1.35249165
96_41	8/26/19	27	450	477	0.11	43	680	723	0.12	0.115	3087	0.05820192	0.823516	0.64943407	0.08442643	1.3621327
96_42	10/5/19	57	780	837	0.1	41	610	651	0.12	0.11	3127	0.05609626	0.82144664	0.64719172	0.08413492	1.30742379
96_43	11/8/19	28	400	428	0.11	14	170	184	0.1	0.105	3161	0.05436645	0.81969177	0.64530755	0.08388998	1.25163933
96_44	12/3/19	23	380	403	0.11	16	250	266	0.11	0.11	3186	0.05312866	0.81840382	0.64393459	0.0837115	1.31403695
96_45	8/14/20	10	190	200	0.1	12	200	212	0.09	0.095	3441	0.0420056	0.80538174	0.63048669	0.08196327	1.15905576
96_46	10/3/20	19	370	389	0.09	16	260	276	0.1	0.095	3491	0.04011464	0.8028528	0.62795891	0.08163466	1.16372141
96_47	11/9/20	7.9	160	160	0.09	11	260	271	0.1	0.095	3528	0.03877035	0.80098649	0.62610942	0.08139422	1.16715898
96_48	12/20/20	31	550	581	0.09	8.9	190	198.9	0.09	0.09	3569	0.03733329	0.79892349	0.62408023	0.08113043	1.10932482
96_49	5/27/21	9.4	270	279.4	0.1	9.3	120	120	0.1	0.1	3727	0.03227623	0.79102295	0.61644826	0.08013827	1.24784319
96_50	6/9/21	33	630	663	0.09	9.2	260	260	0.1	0.095	3740	0.031892	0.79037639	0.61583292	0.08005828	1.18663555
96_51	8/27/21	18	510	528	0.12	12	380	392	0.1	0.11	3819	0.02965343	0.78645868	0.61213222	0.07957719	1.38230568
96_52	10/9/21	40	790	830	0.1	14	350	364	0.1	0.1	3862	0.02850174	0.78433441	0.61014498	0.07931885	1.26073441
96_53	11/17/21	21	390	411	0.09	20	370	390	0.1	0.095	3901	0.0274959	0.78241272	0.60835847	0.0790866	1.20121486
96_54	12/19/21	11	320	331	0.12	8.7	320	320	0.12	0.12	3933	0.02669717	0.78083947	0.60690358	0.07889747	1.5209614
96_55	5/13/22	12	540	552	0.09	7.7	66	66	0.09	0.09	4078	0.02335893	0.7737502	0.600429	0.07805577	1.15302173
96_56	6/8/22	8.2	110	110	0.1	8	240	248	0.1	0.1	4104	0.02280608	0.77248584	0.59928752	0.07790738	1.28357548
96_57	8/15/22	14	420	434	0.09	9	190	190	0.09	0.09	4172	0.02142126	0.76918882	0.59632862	0.07752272	1.16094996
96_58	10/10/22	6.2	180	180	0.09	9.2	210	210	0.09	0.09	4228	0.02034418	0.7664842	0.59391972	0.07720956	1.1656587
96_59	11/8/22	9.2	310	310	0.09	9.3	230	230	0.1	0.095	4257	0.01980787	0.76508733	0.59268181	0.07704864	1.23298744
96_60	12/19/22	9.5	280	280	0.09	9.7	340	340	0.1	0.095	4298	0.01907367	0.76311678	0.59094248	0.07682252	1.23661652
96_61	5/17/23	8	200	200	0.07	7.9	180	180	0.1	0.085	4447	0.01662729	0.75599819	0.58472327	0.07601402	1.1182147
96_62	6/29/23	6.5	120	120	0.09	7.9	420	420	0.1	0.095	4490	0.01598151	0.7539562	0.58295671	0.07578437	1.2535566
96_63	8/21/23	8.4	240	240	0.08	8.9	320	320	0.09	0.085	4543	0.01521995	0.75144692	0.58079586	0.07550346	1.1257762
96_64	10/25/23	14	800	814	0.1	9.5	240	240	0.1	0.1	4608	0.01433533	0.7483809	0.57816988	0.07516208	1.33045806
96_65	11/20/23	9.9	480	480	0.1	9.5	200	200	0.09	0.095	4634	0.01399605	0.747158	0.57712671	0.07502647	1.26621974
96_66	12/4/23	8.7	590	590	0.09	7.7	300	300	0.08	0.085	4648	0.0138167	0.74650034	0.57656668	0.07495367	1.13403389
96_67	5/14/24	8.6	300	300	0.1	9.9	480	489.9	0.12	0.11	4810	0.0119012	0.73893228	0.57016829	0.07412188	1.48404226
96_68	6/7/24	9.5	170	170	0.09	6.8	25	25	0.1	0.095	4834	0.01164095	0.73781763	0.56923273	0.07400026	1.28377935
96_69	8/22/24	8.8	280	280	0.09	6.8	34	34	0.09	0.09	4910	0.01085381	0.73429898	0.56629014	0.07361772	1.22253179

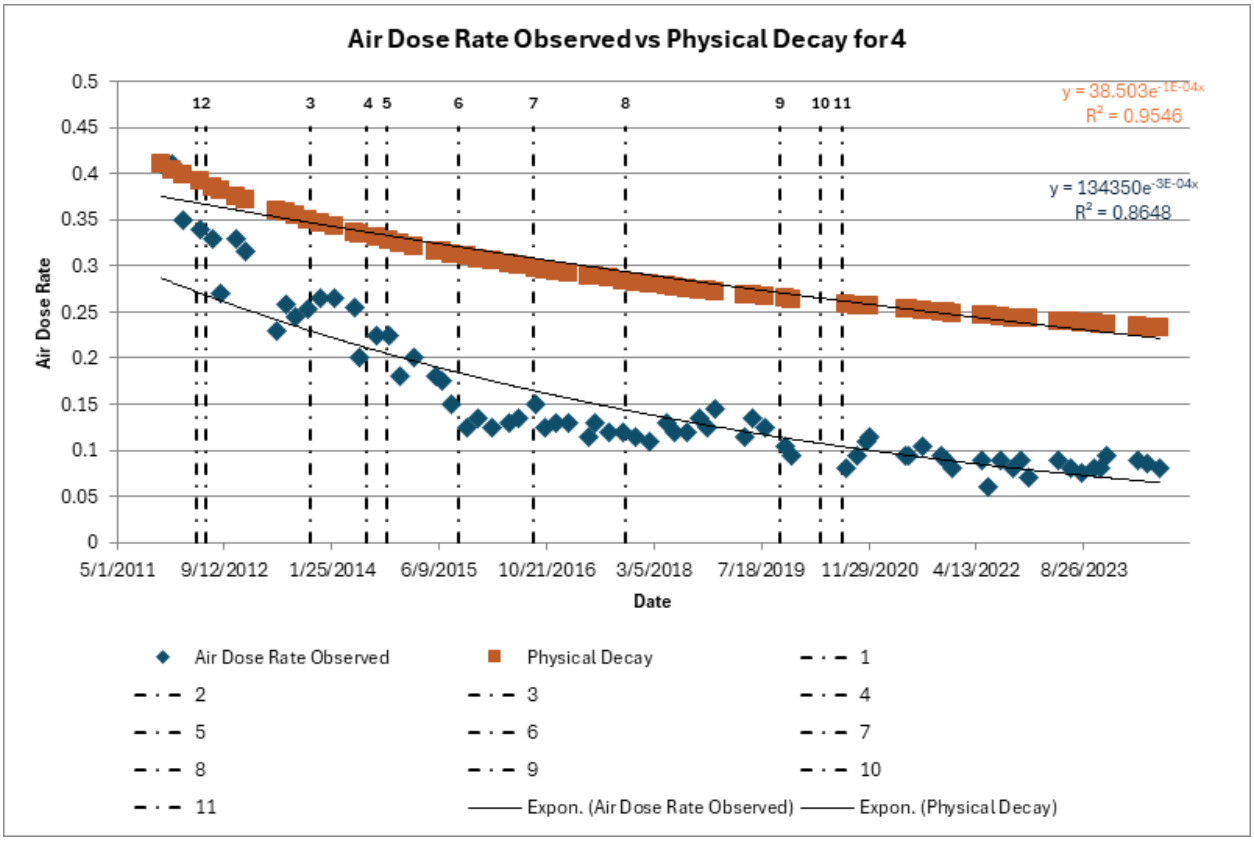
UniqueID	Date of Collec	Cs-134 Left	Cs-137 Left	Total Left	Air dose Left	Cs-134 Right	Cs-137 Right	Total Right	Air dose Right	Average Air Do	Days Since	Cs-134	Cs-137	Total Gamma	Physical Dec	Observed/Ph
97_1	11/25/11	36	40	76	0.08	76	97	173	0.08	0.08	256	0.78991109	0.98402655	1.00043595	0.08003488	0.99956424
97_2	1/17/12	310	430	740	0.13	50	78	128	0.12	0.125	309	0.75226993	0.98075156	0.9861987	0.0788959	1.58436632
97_3	2/28/12	260	340	600	0.12	65	97	162	0.11	0.115	351	0.72371926	0.97816403	0.97532048	0.07802564	1.47387451
97_4	5/21/12	6.5	87	110	0.13	6	80	120	0.11	0.12	434	0.67044486	0.97307064	0.9548189	0.07638551	1.57097855
97_5	7/23/12	12	480	770	0.17	8.6	430	680	0.17	0.17	497	0.63264154	0.96922228	0.94009158	0.07520733	2.26041807
97_6	8/20/12	7.4	150	230	0.12	7.1	120	180	0.1	0.11	525	0.61653157	0.96751679	0.93376529	0.07470122	1.47253278
97_7	11/19/12	13	350	590	0.13	6.8	63	93	0.12	0.125	616	0.56695368	0.96199464	0.91408662	0.07312693	1.7093566
97_8	12/21/12	5.6	77	150	0.12	5.8	40	77	0.1	0.11	648	0.55048419	0.96006028	0.90747288	0.07259783	1.51519679
97_9	1/14/13	6.4	88	170	0.13	4.6	65	120	0.12	0.125	672	0.53844681	0.95861207	0.90261258	0.07220901	1.73108599
97_10	5/9/13	110	230	340	0.124	71	120	191	0.096	0.11	787	0.48432069	0.95170297	0.88045374	0.0704363	1.56169476
97_11	6/18/13	64	120	184	0.104	21	51	72	0.092	0.098	827	0.46679868	0.94931149	0.87316167	0.06985293	1.40294751
97_12	8/1/13	120	230	350	0.078	75	160	235	0.108	0.093	871	0.44825575	0.94668781	0.86537354	0.06922988	1.34335052
97_13	10/2/13	62	160	222	0.07	34	61	95	0.09	0.08	933	0.4233705	0.94300311	0.85479616	0.06838369	1.16986955
97_14	12/3/13	63	130	193	0.11	37	82	119	0.09	0.1	995	0.39986677	0.93933275	0.84466017	0.06757281	1.4798851
97_15	2/4/14	55	170	225	0.102	43	98	141	0.09	0.096	1058	0.37732012	0.93561782	0.83478818	0.06678305	1.43749041
97_16	5/7/15	56	220	276	0.11	23	82	105	0.09	0.1	1515	0.24766867	0.90910607	0.77407304	0.06192584	1.6148347
97_17	6/11/15	46	190	236	0.08	14	55	69	0.08	0.08	1550	0.23981044	0.90710688	0.77009233	0.06160739	1.2985456
97_18	8/5/15	43	180	223	0.1	17	79	96	0.08	0.09	1605	0.2279625	0.90397416	0.76399972	0.06111998	1.47251363
97_19	10/18/15	38	170	208	0.11	14	70	84	0.09	0.1	1679	0.21293993	0.8997763	0.75610156	0.06048812	1.65321707
97_20	12/5/15	36	230	266	0.09	26	93	119	0.07	0.08	1727	0.20372908	0.89706379	0.75115263	0.06009221	1.33128735
97_21	1/10/16	28	170	198	0.09	19	66	85	0.08	0.085	1763	0.19708336	0.89503478	0.74752681	0.05980214	1.42135371
97_22	5/21/16	25	100	125	0.1	10	73	83	0.07	0.085	1895	0.1745174	0.88763425	0.73482345	0.05878588	1.44592556
97_23	6/22/16	35	150	185	0.1	15	64	79	0.08	0.09	1927	0.16944783	0.88584942	0.73187584	0.05855007	1.53714598
97_24	8/13/16	39	230	269	0.09	7	43	43	0.09	0.09	1979	0.16152196	0.88295671	0.7271891	0.05817513	1.54705289
97_25	10/25/16	30	180	210	0.1	18	74	92	0.09	0.095	2052	0.15101683	0.87891174	0.72081549	0.05766524	1.64743961
97_26	12/8/16	30	160	190	0.09	19	84	103	0.07	0.08	2096	0.1450179	0.87648262	0.71708445	0.05736676	1.39453588
97_27	1/10/17	18	110	128	0.08	14	63	77	0.07	0.075	2129	0.14067561	0.8746652	0.71433843	0.05714707	1.31240313
97_28	5/14/17	14	110	124	0.1	17	110	127	0.08	0.09	2253	0.12548975	0.86786969	0.70439807	0.05635185	1.5971083
97_29	6/11/17	26	160	186	0.1	10	77	87	0.07	0.085	2281	0.1222942	0.86634255	0.70223183	0.05617855	1.51303309
97_30	8/28/17	24	170	194	0.1	13	92	105	0.08	0.09	2359	0.11381493	0.86210251	0.69633982	0.05570719	1.61559049
97_31	10/26/17	25	180	205	0.09	6.2	65	71.2	0.08	0.085	2418	0.10779391	0.85890909	0.69201599	0.05536128	1.53536915
97_32	12/5/17	8	97	105	0.11	8.9	53	61.9	0.08	0.095	2458	0.10389408	0.85675079	0.68914651	0.05513172	1.72314593
97_33	1/28/18	13	110	123	0.07	9.6	66	75.6	0.07	0.07	2512	0.09885217	0.85384568	0.68534872	0.0548279	1.2767223
97_34	5/12/18	11	130	141	0.09	9.4	39	39	0.07	0.08	2616	0.08982089	0.8482784	0.67826729	0.05426138	1.47434502
97_35	6/7/18	18	140	158	0.11	7.6	48	48	0.08	0.095	2642	0.08769506	0.84689226	0.6765424	0.05412339	1.75524844
97_36	8/13/18	12	120	132	0.09	9.8	70	70	0.08	0.085	2709	0.08244597	0.84333071	0.67217685	0.05377415	1.5806852
97_37	10/7/18	12	110	122	0.1	9.4	95	104.4	0.07	0.085	2764	0.07837269	0.84041825	0.66867519	0.05349402	1.58896279
97_38	11/4/18	13	130	143	0.1	10	73	73	0.09	0.095	2792	0.07637696	0.8389394	0.66691978	0.05335358	1.78057398
97_39	12/2/18	14	140	154	0.1	11	85	85	0.09	0.095	2820	0.07443205	0.83746316	0.66518219	0.05321457	1.7852252
97_40	5/7/19	16	170	186	0.11	8.4	78	78	0.08	0.095	2976	0.06446838	0.82928583	0.65580942	0.05246475	1.81073946
97_41	6/6/19	10	160	170	0.1	8.4	100	108.4	0.09	0.095	3006	0.06271106	0.82772244	0.65406347	0.05232508	1.81557303
97_42	8/26/19	13	150	163	0.1	9.1	65	65	0.07	0.085	3087	0.05820192	0.823516	0.64943407	0.05195473	1.63603982
97_43	10/5/19	12	190	202	0.09	7.9	67	67	0.09	0.09	3127	0.05609626	0.82144664	0.64719172	0.05177534	1.73827935
97_44	11/6/19	7.5	110	117.5	0.09	6.1	84	90.1	0.09	0.09	3159	0.05446671	0.81979489	0.64541784	0.05163343	1.74305688
97_45	12/1/19	8.2	100	100	0.09	8.4	67	67	0.08	0.085	3184	0.05322664	0.81850678	0.64404404	0.05152352	1.64973189
97_46	8/14/20	7	110	117	0.08	7.1	68	68	0.07	0.075	3441	0.0420056	0.80538174	0.63048669	0.05043894	1.48694653
97_47	10/3/20	6.8	120	120	0.09	7.7	46	46	0.07	0.08	3491	0.04011464	0.8028528	0.62795891	0.05023671	1.59246088
97_48	11/5/20	8.2	110	110	0.08	8	48	48	0.08	0.08	3524	0.03891348	0.80118804	0.62630852	0.05010468	1.5966572
97_49	12/20/20	8.5	100	100	0.08	11	240	251	0.08	0.08	3569	0.03733329	0.79892349	0.62408023	0.04992642	1.60235808
97_50	5/28/21	7.4	14	14	0.09	4.9	110	110	0.07	0.08	3728	0.03224651	0.79097319	0.61640086	0.04931207	1.62232089
97_51	6/9/21	9.2	60	60	0.08	8.6	60	60	0.08	0.08	3740	0.031892	0.79037639	0.61583292	0.04926663	1.62381707
97_52	8/27/21	7.5	110	110	0.09	9.1	130	130	0.08	0.085	3819	0.02965343	0.78645868	0.61213222	0.04897058	1.73573611
97_53	10/9/21	8.1	44	44	0.07	9.1	190	190	0.08	0.075	3862	0.02850174	0.78433441	0.61014498	0.0488116	1.53652006
97_54	11/17/21	8.4	85	85	0.08	9	240	240	0.07	0.075	3901	0.0274959	0.78241272	0.60835847	0.04866868	1.54103223
97_55	12/13/21	8.4	74	74	0.09	11	280	291	0.09	0.09	3927	0.02684515	0.78113421	0.60717563	0.04857405	1.85284116
97_56	5/13/22	9.3	240	249.3	0.07	8.9	320	320	0.07	0.07	4078	0.02335893	0.7737502	0.600429	0.04803432	1.45729136
97_57	6/8/22	9.4	99	99	0.08	11	230	241	0.08	0.08	4104	0.02280608	0.77248584	0.59928752	0.047943	1.66864812
97_58	8/15/22	9.3	140	140	0.09	12	380	392	0.09	0.09	4172	0.02142126	0.76918882	0.59632862	0.04770629	1.88654369
97_59	10/10/22	7	99	99	0.07	8.5	310	310	0.07	0.07	4228	0.02034418	0.7664842	0.59391972	0.04751358	1.47326307
97_60	11/8/22	9.3	140	140	0.09	8.7	360	360	0.08	0.085	4257	0.01980787	0.76508733	0.59268181	0.04741454	1.79269885
97_61	12/19/22	8.2	110	110	0.08	10	270	280	0.08	0.08	4298	0.01907367	0.76311678	0.59094248	0.0472754	1.69221208
97_62	5/17/23	8.7	9.8		0.08	8.3	260	260	0.08	0.08	4447	0.01662729	0.75599819	0.58472327	0.04677786	1.71021072
97_63	6/29/23	5.8	6.4		0.08	8.4	320	320	0.08	0.08	4490	0.01598151	0.7539562	0.58295671	0.04663654	1.71539324
97_64	8/21/23	8.4	100	100	0.07	9.1	210	210	0.08	0.075	4543	0.01521995	0.75144692	0.58079586	0.04646367	1.6141644
97_65	10/25/23	6.5	29	29	0.09	9.9	86	86	0.08	0.085	4608	0.01433533	0.7483809	0.57816988	0.04625359	1.83769519
97_66	11/20/23	8.8	160	168.8	0.08	8	290	290	0.09	0.085	4634	0.01399605	0.747158	0.57712671	0.04617014	1.84101686
97_67	12/4/23	7.3	25	25	0.08	7	62	62	0.08	0.08	4648	0.0138167	0.74650034	0.57656668	0.04612533	1.73440478
97_68	5/14/24	6.2	28	28	0.09	7.7	140	140	0.08	0.085	4810	0.0119012	0.73893228	0.57016829	0.04561346	1.86348489
97_69	6/7/24	9.8	110	110	0.08	8.4	340	340	0.09	0.085	4834	0.01164095	0.73781763	0.56923273	0.04553862	1.86654761
97_70	8/22/24	9.6	43	43	0.08	8.5	140	140	0.08	0.08	4910	0.01085381	0.73429898	0.56629014	0.04530321	1.76587925

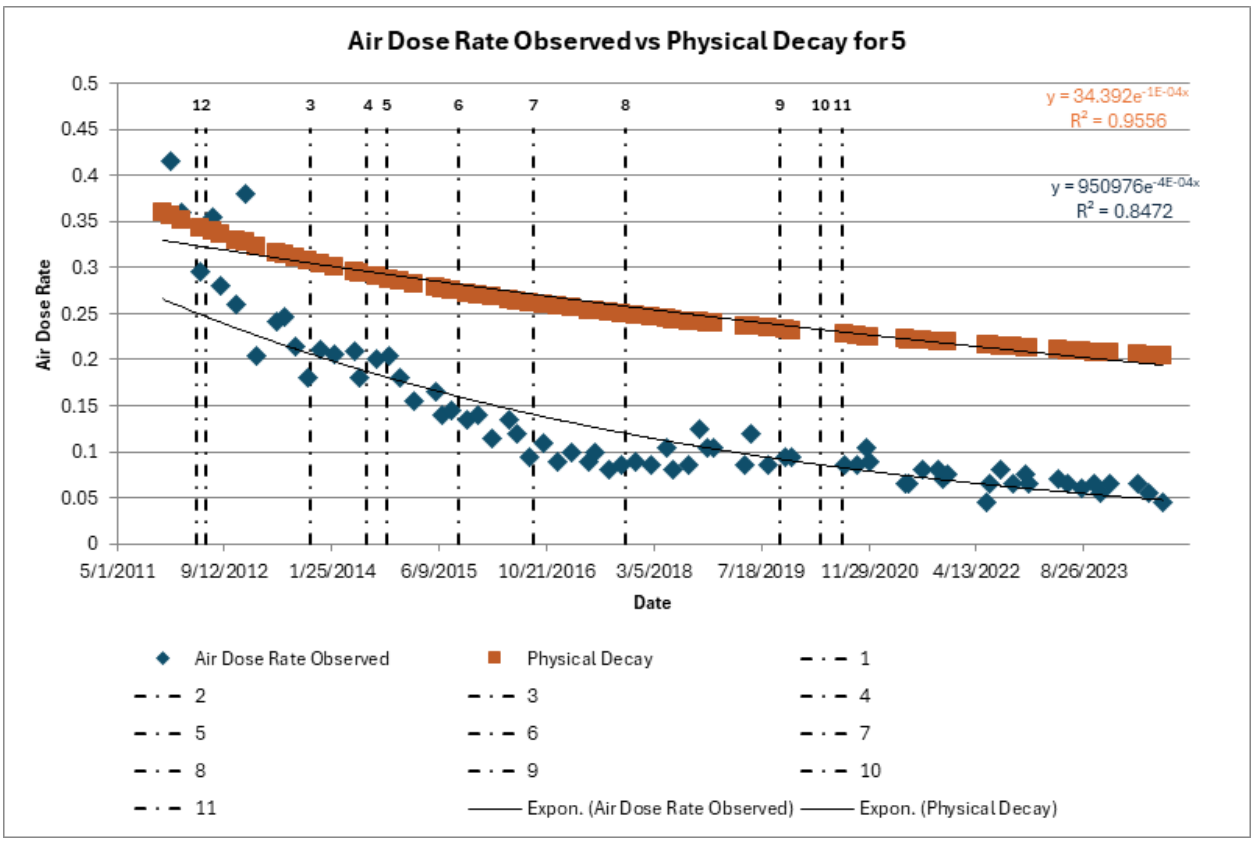
J: Ratio Analysis for Sites 1-97:

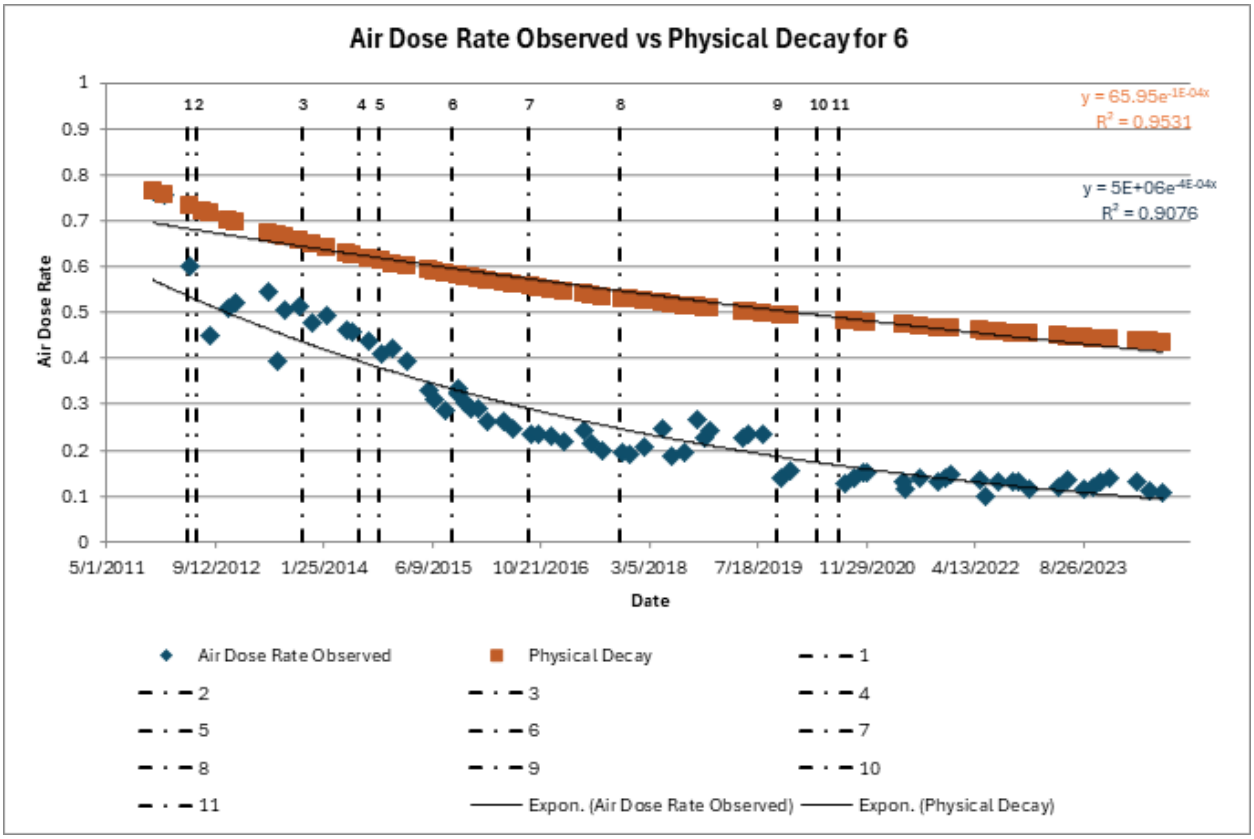


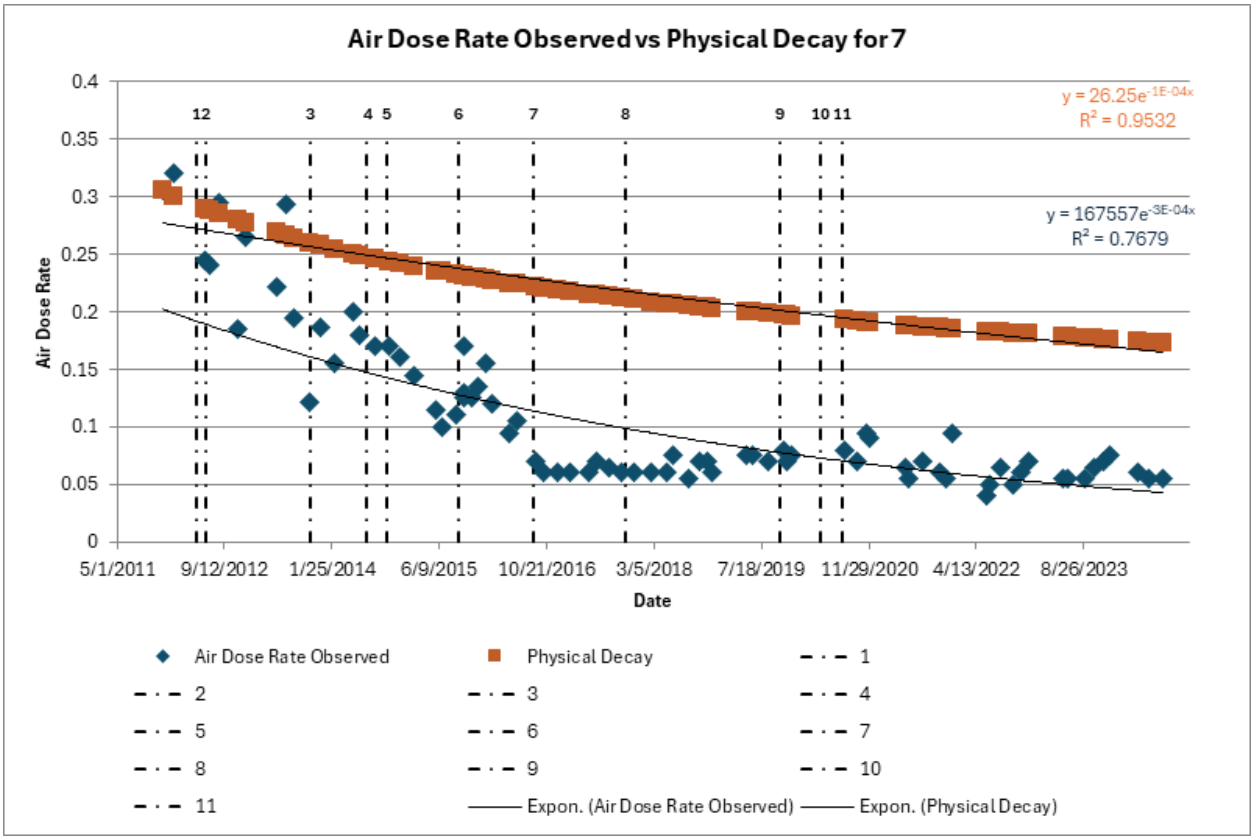

Air Dose Rate Observed vs Physical Decay for 2
y = 36.662e-1E-04x
R2 = 0.9555
y = 1E+06e-4E-04x
R2 = 0.8834
Air Dose Rate
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

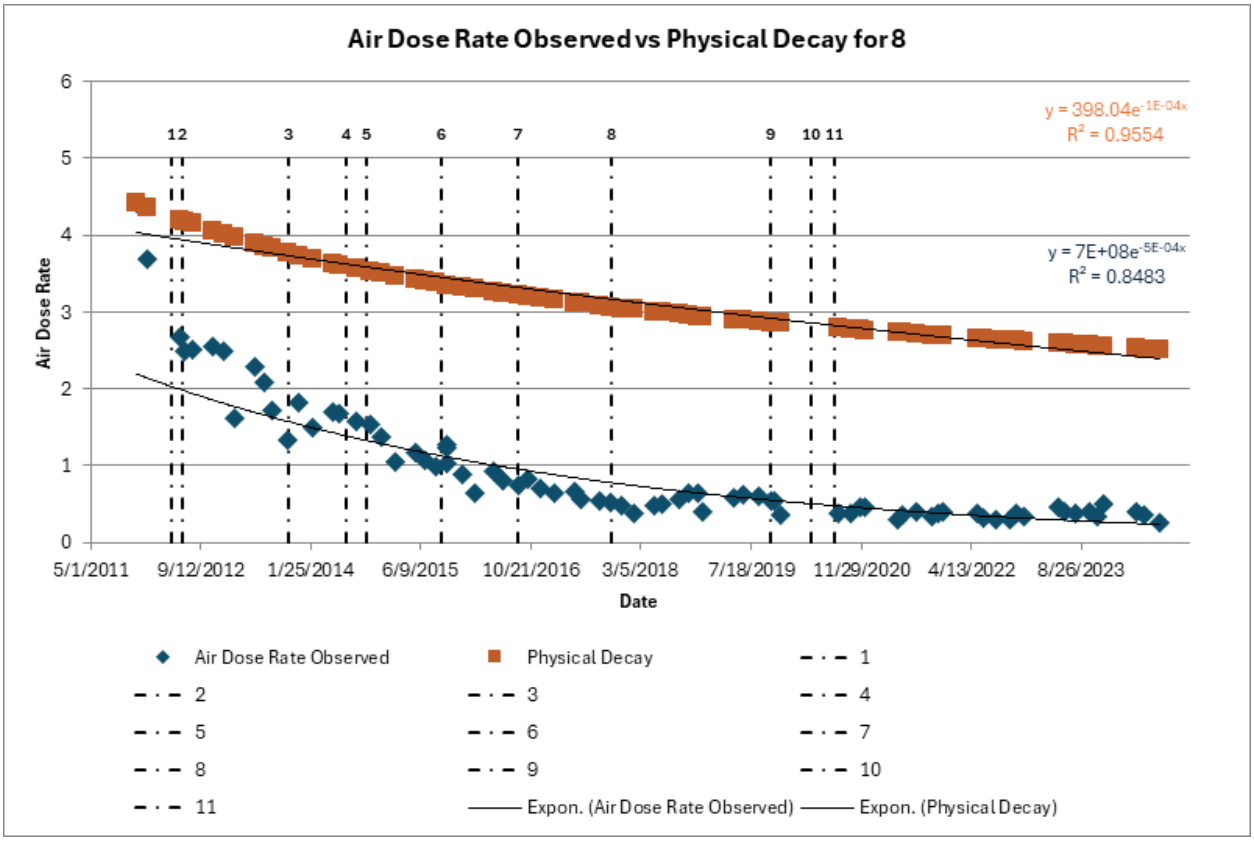

Air Dose Rate Observed vs Physical Decay for 3
y = 34.415e-1E-04x
R2 = 0.9546
y = 4E+06e-4E-04x
R2 = 0.9032
Air Dose Rate
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

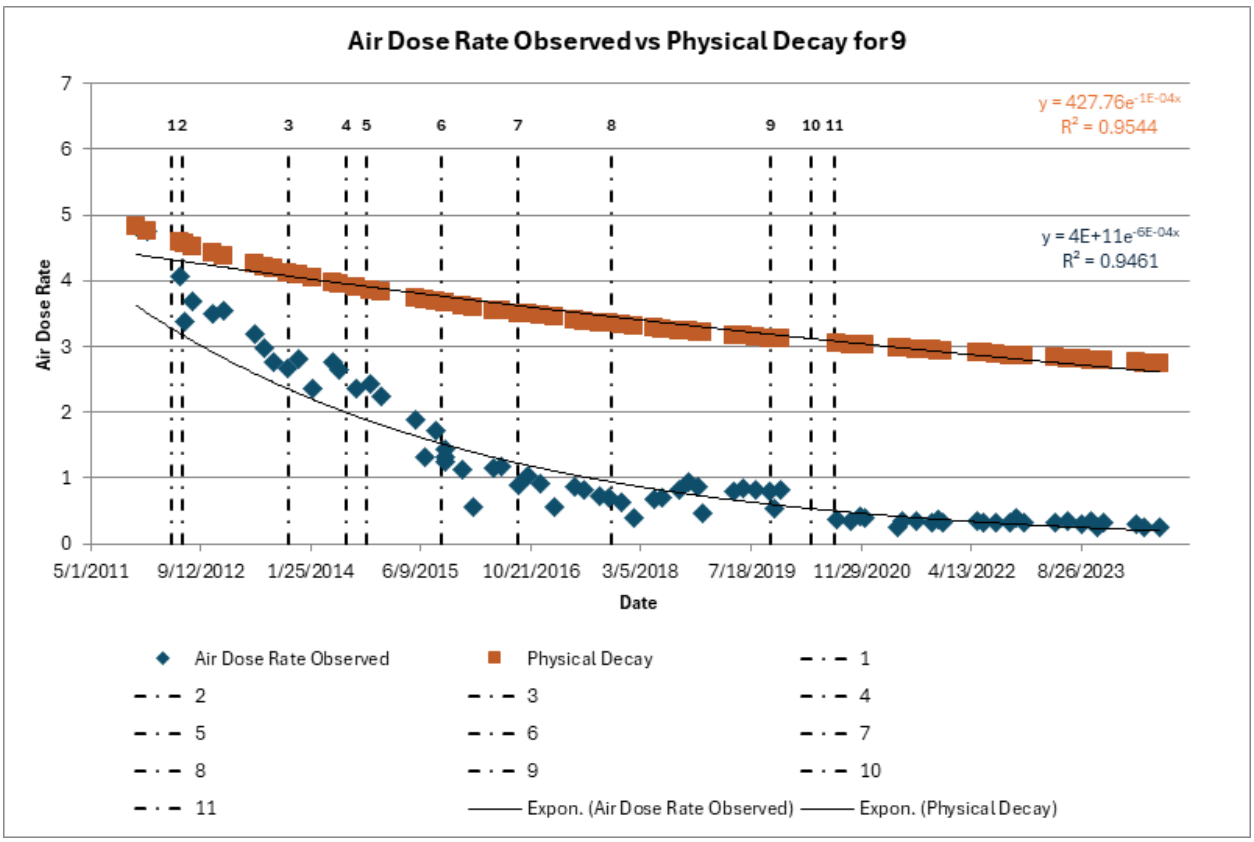

Air Dose Rate Observed vs Physical Decay for 4
y = 38.503e-1E-04x
R² = 0.9546
y = 134350e-3E-04x
R² = 0.8648
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

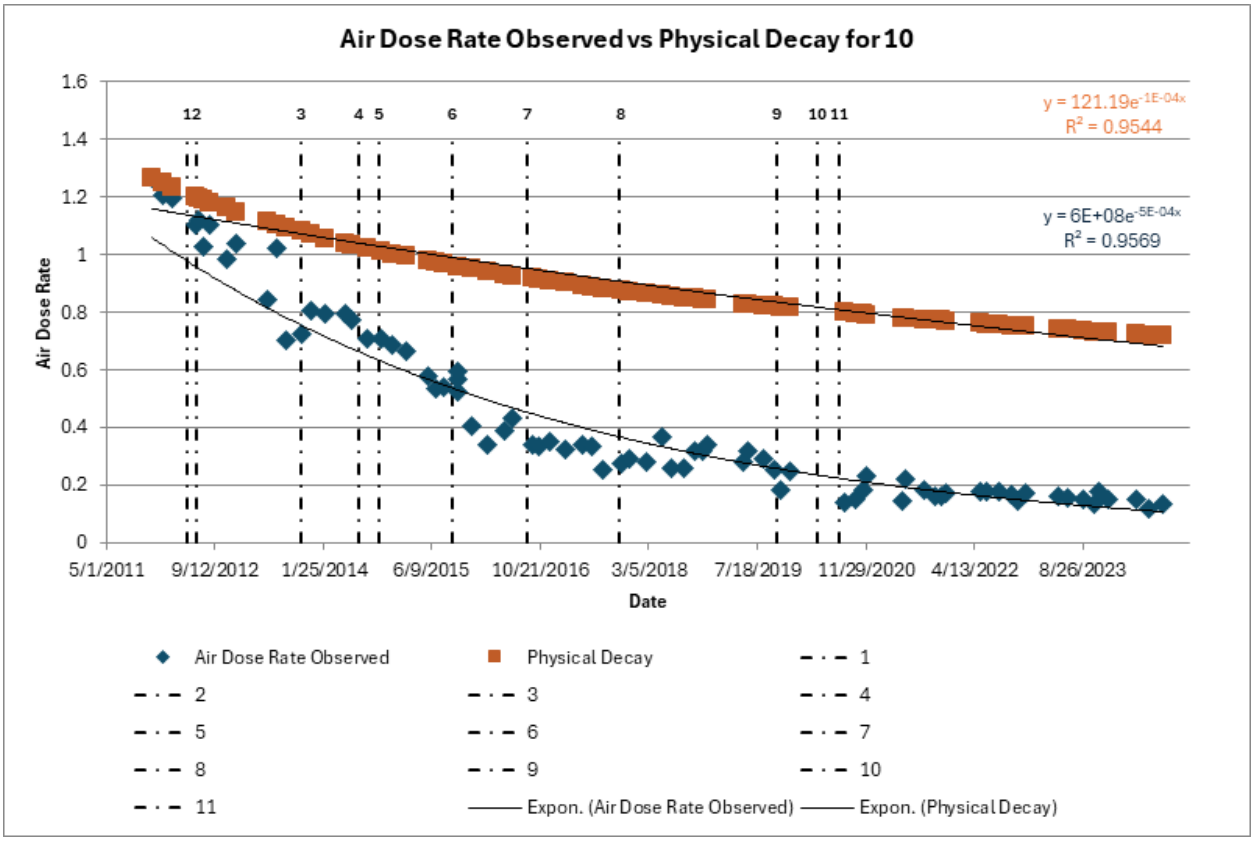

Air Dose Rate Observed vs Physical Decay for 5
y = 34.392e-1E-04x
R² = 0.9556
y = 950976e-4E-04x
R² = 0.8472
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

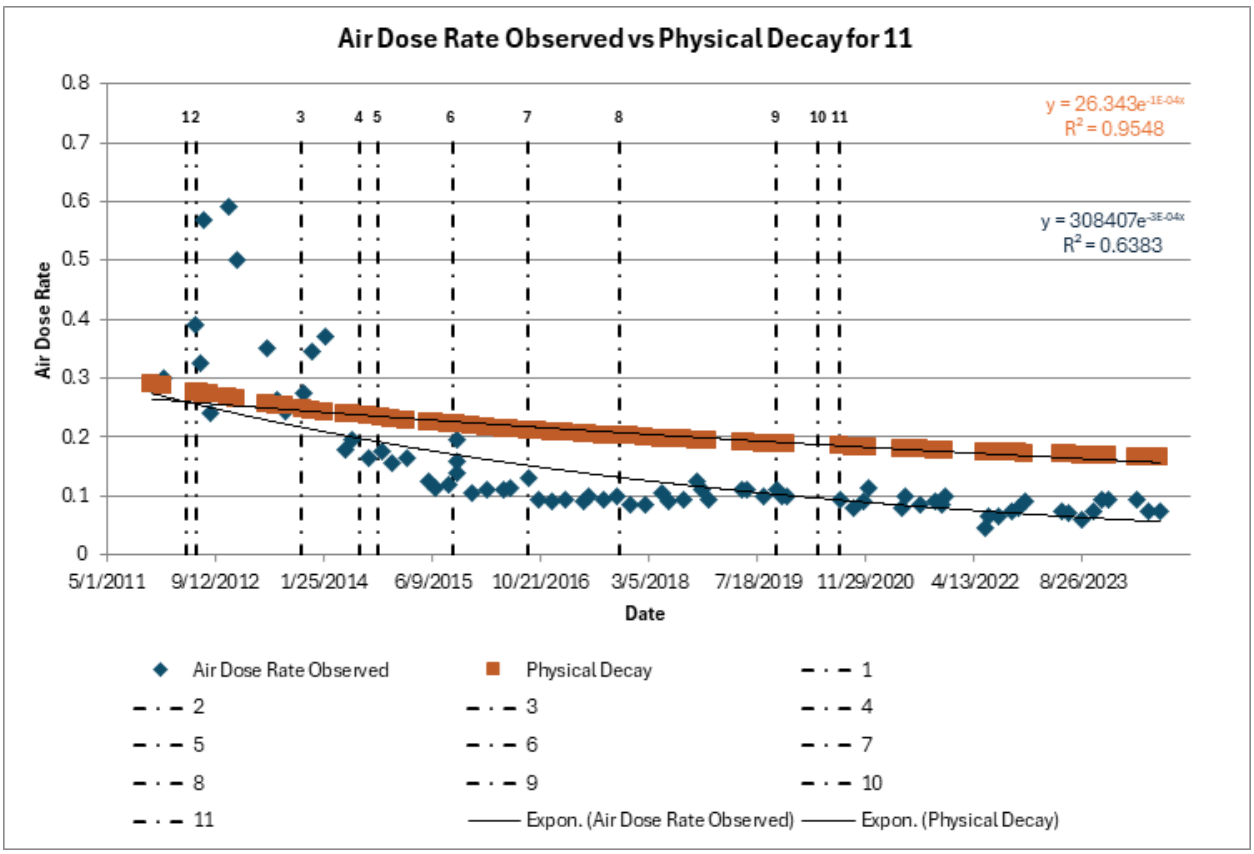

Air Dose Rate Observed vs Physical Decay for 6
y = 65.95e-1E-04x
R² = 0.9531
y = 5E+06e-4E-04x
R² = 0.9076
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

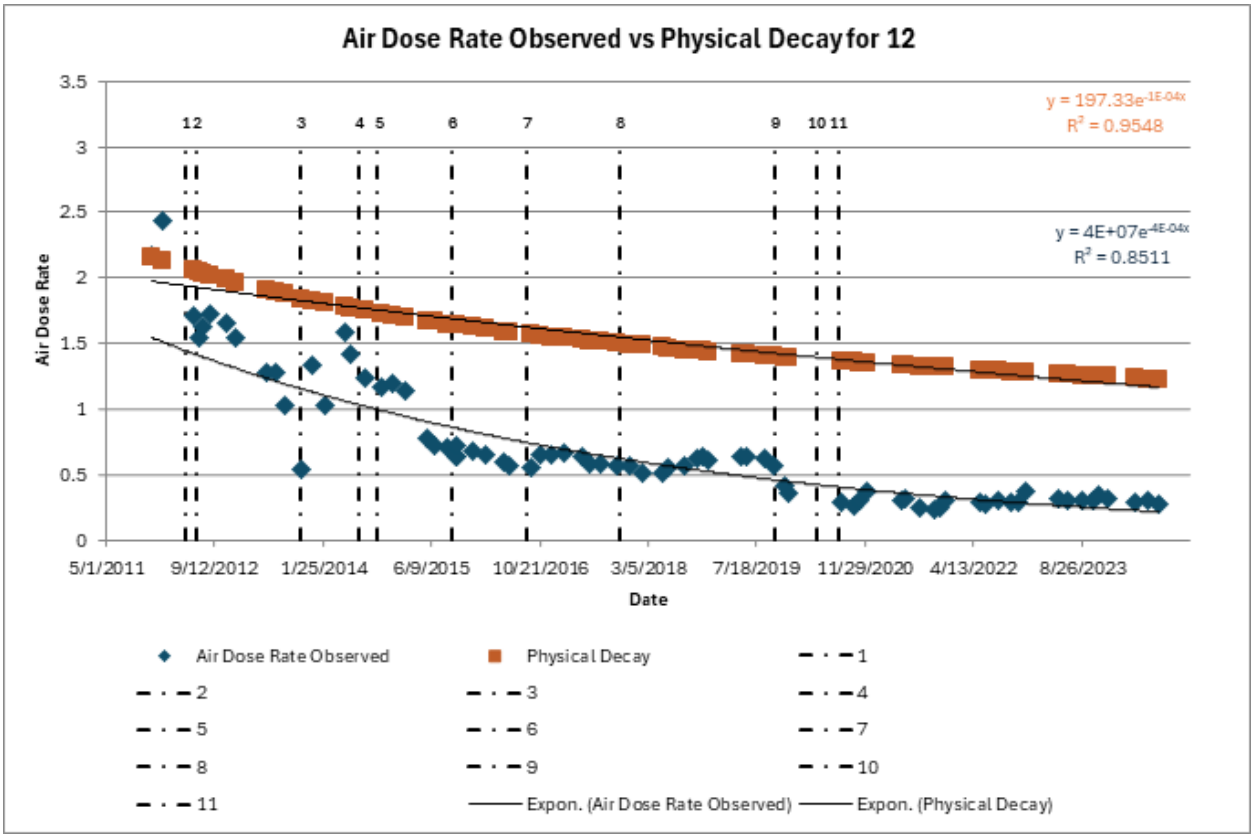

Air Dose Rate Observed vs Physical Decay for 7
y = 26.25e-1E-04x
R² = 0.9532
y = 167557e-3E-04x
R² = 0.7679
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

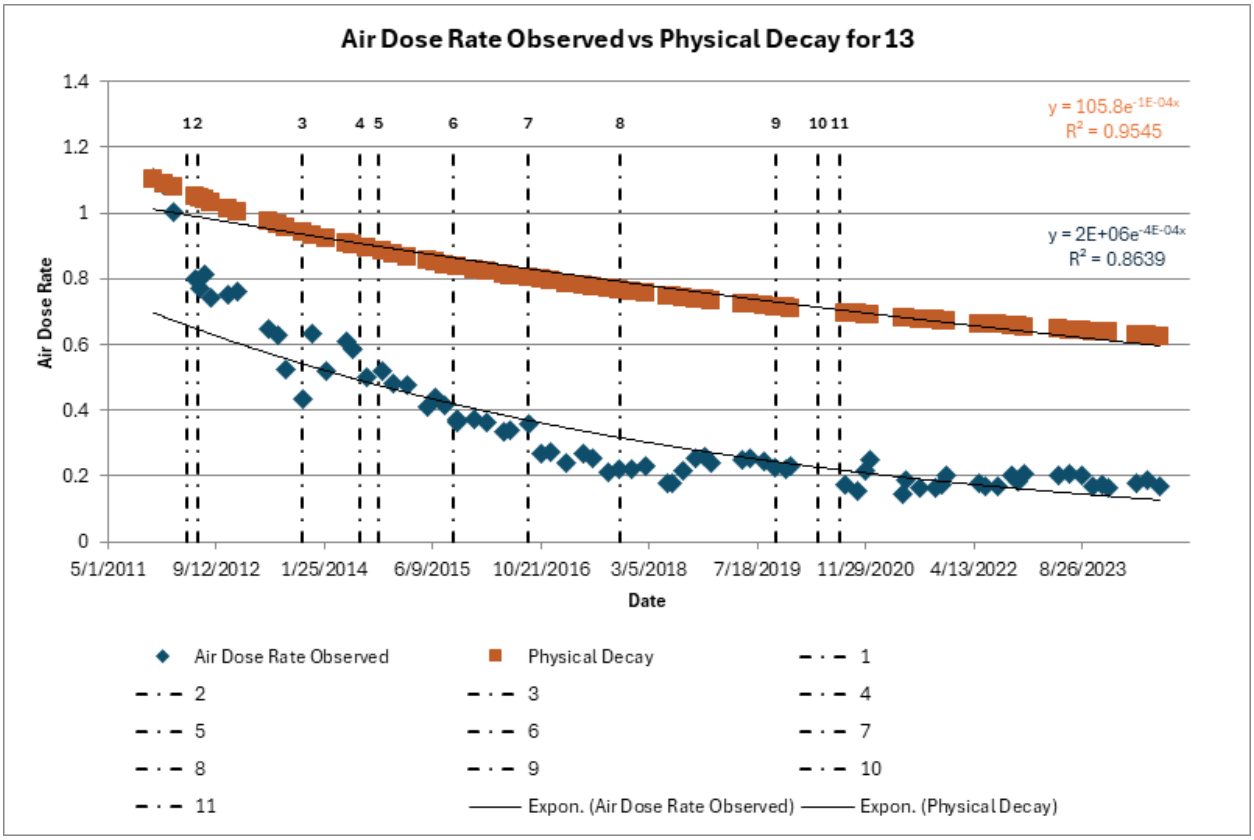

Air Dose Rate Observed vs Physical Decay for 8
y = 398.04e-1E-04x
R² = 0.9554
y = 7E+08e-5E-04x
R² = 0.8483
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

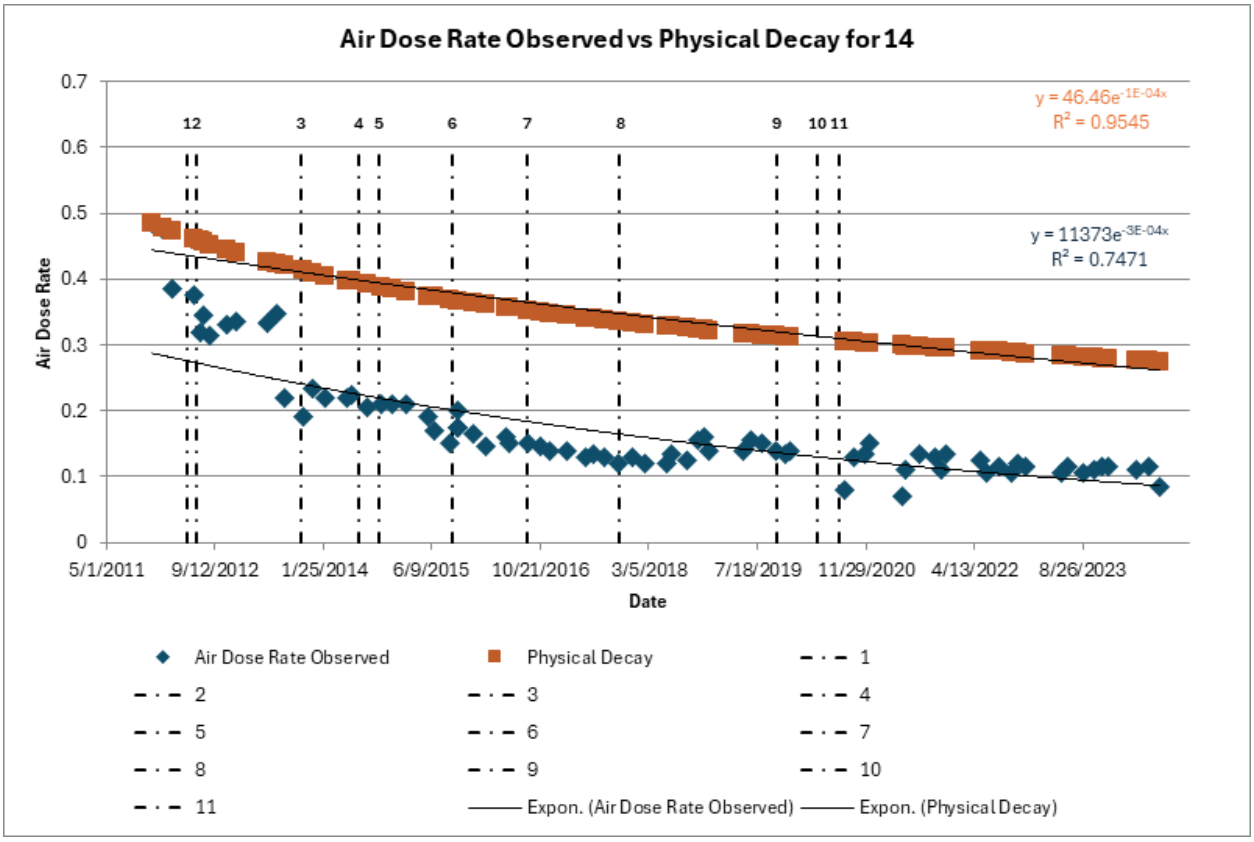

Air Dose Rate Observed vs Physical Decay for 9
y = 427.76e-1E-04x
R² = 0.9544
y = 4E+11e-6E-04x
R² = 0.9461
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

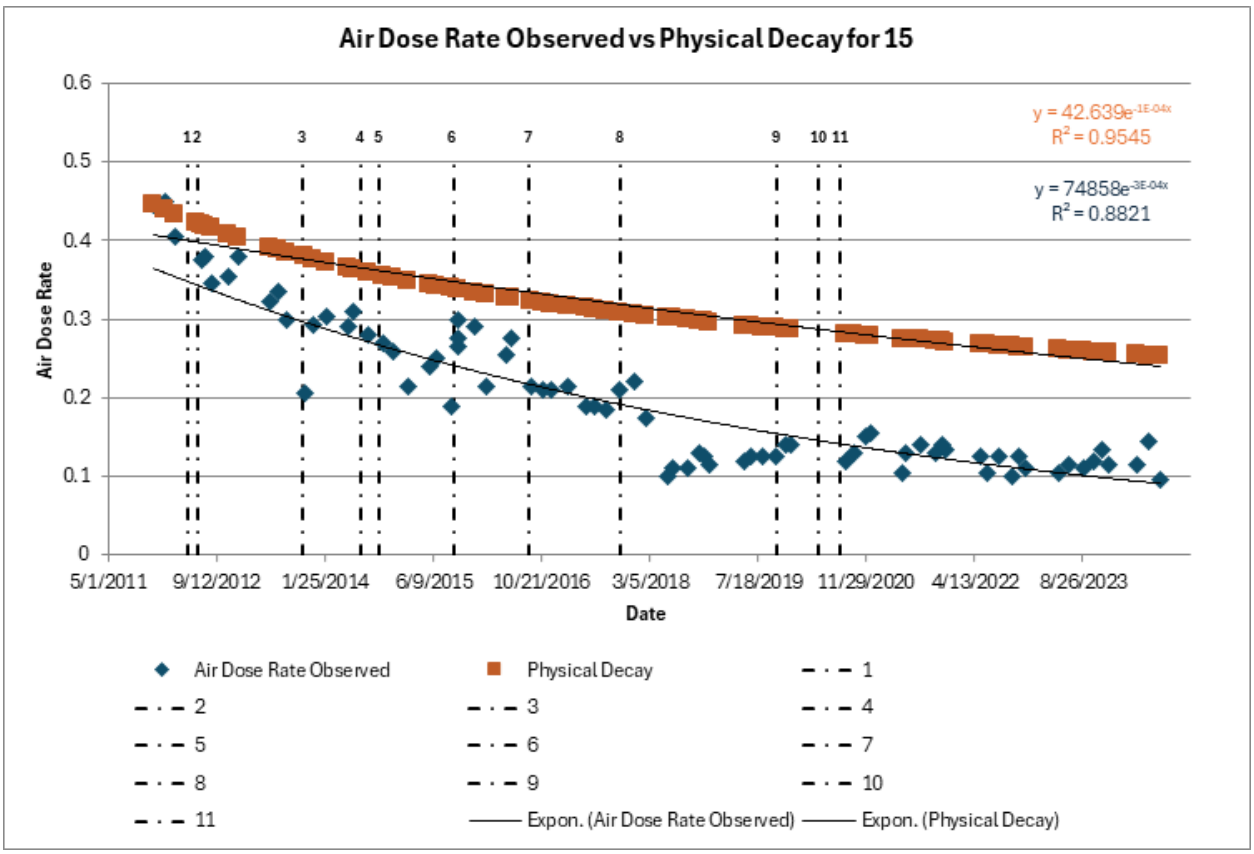

Air Dose Rate Observed vs Physical Decay for 10
y = 121.19e-1E-04x
R² = 0.9544
y = 6E+08e-5E-04x
R² = 0.9569
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

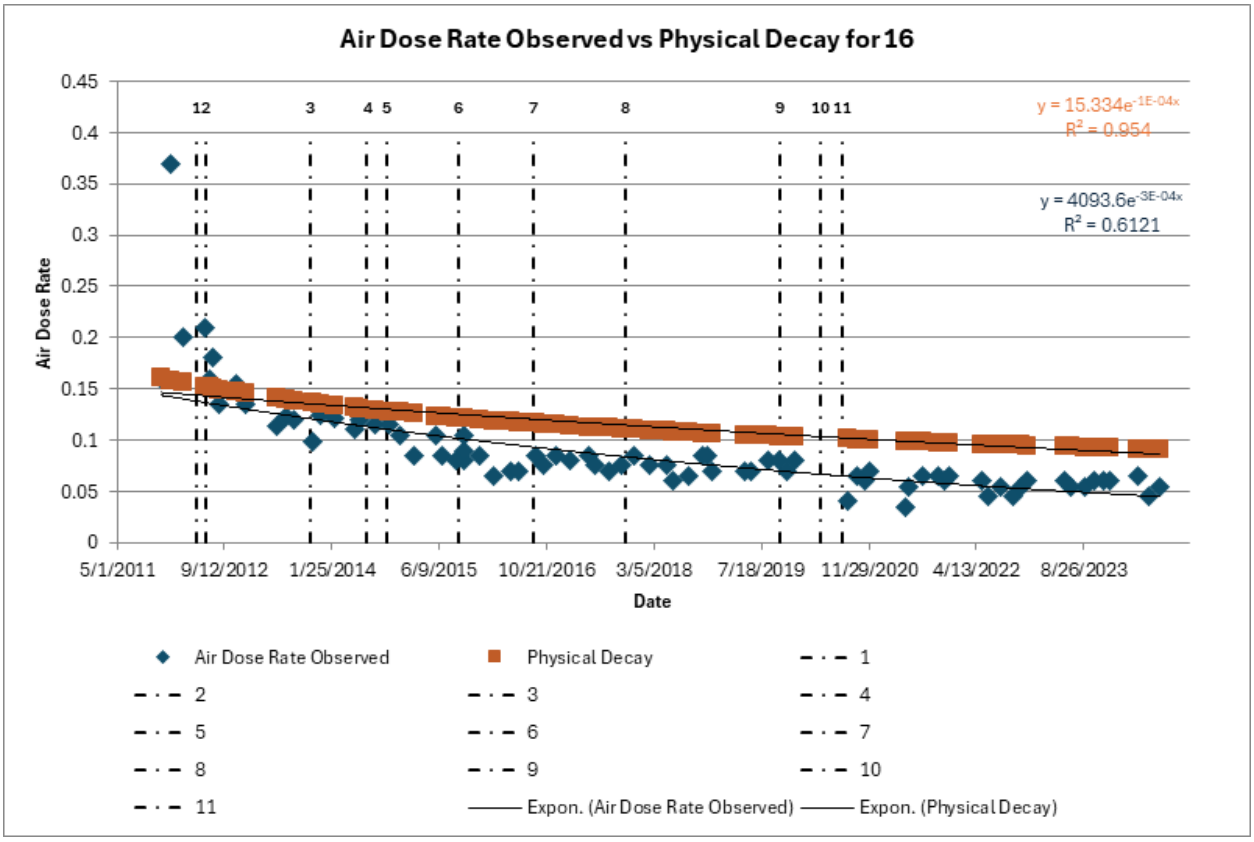

Air Dose Rate Observed vs Physical Decay for 11
y = 26.343e-1E-04x
R² = 0.9548
y = 308407e-3E-04x
R² = 0.6383
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

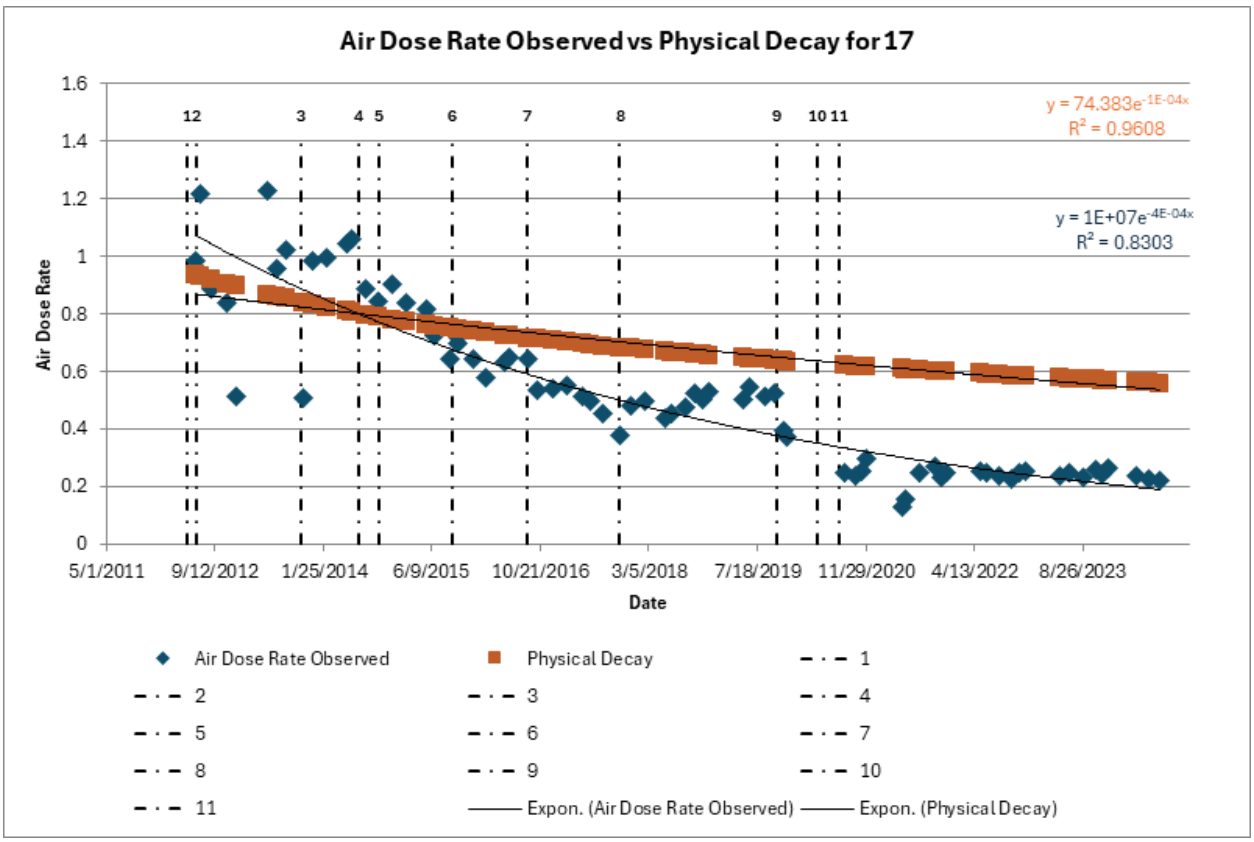

Air Dose Rate Observed vs Physical Decay for 12
y = 197.33e-1E-04x
R² = 0.9548
y = 4E+07e-4E-04x
R² = 0.8511
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
3.5
3
2.5
2
1.5
1
0.5
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

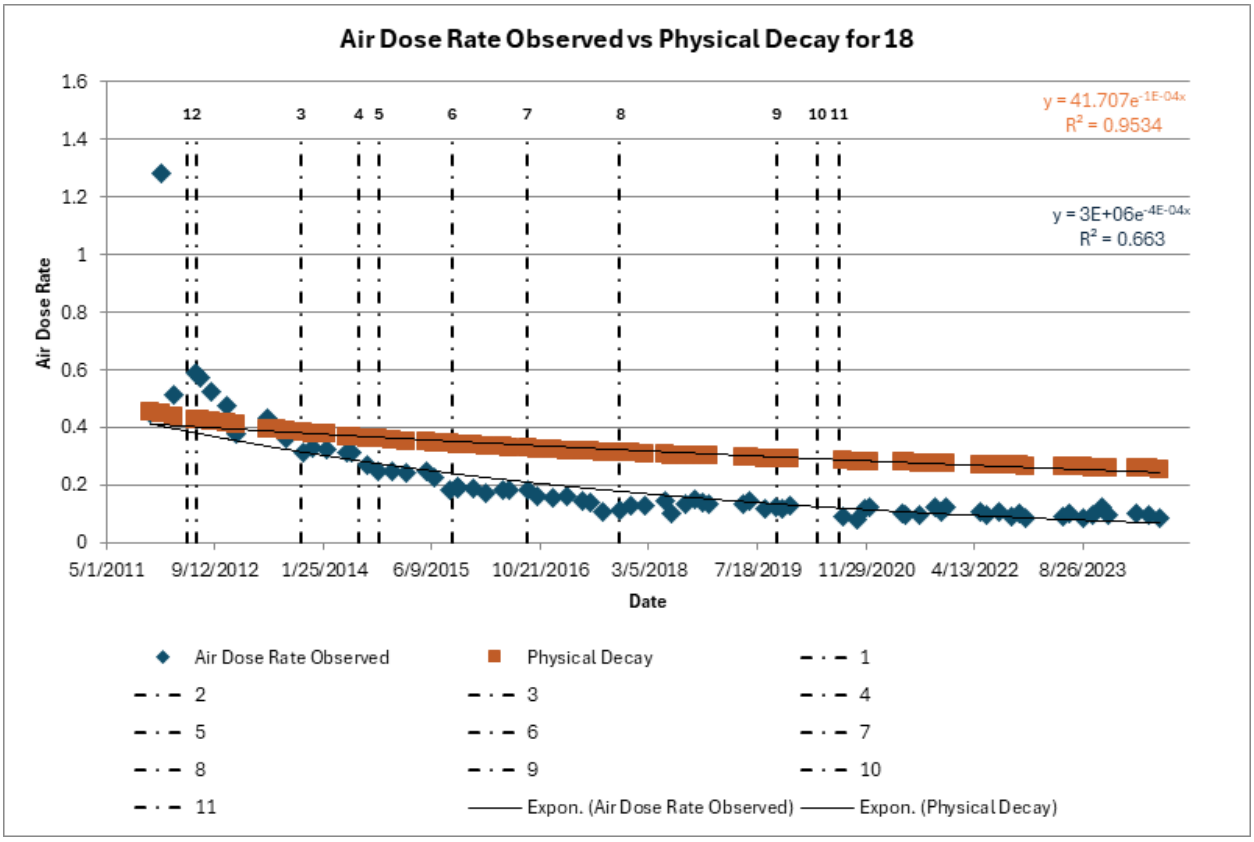

Air Dose Rate Observed vs Physical Decay for 13
y = 105.8e-1E-04x
R² = 0.9545
y = 2E+06e-4E-04x
R² = 0.8639
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

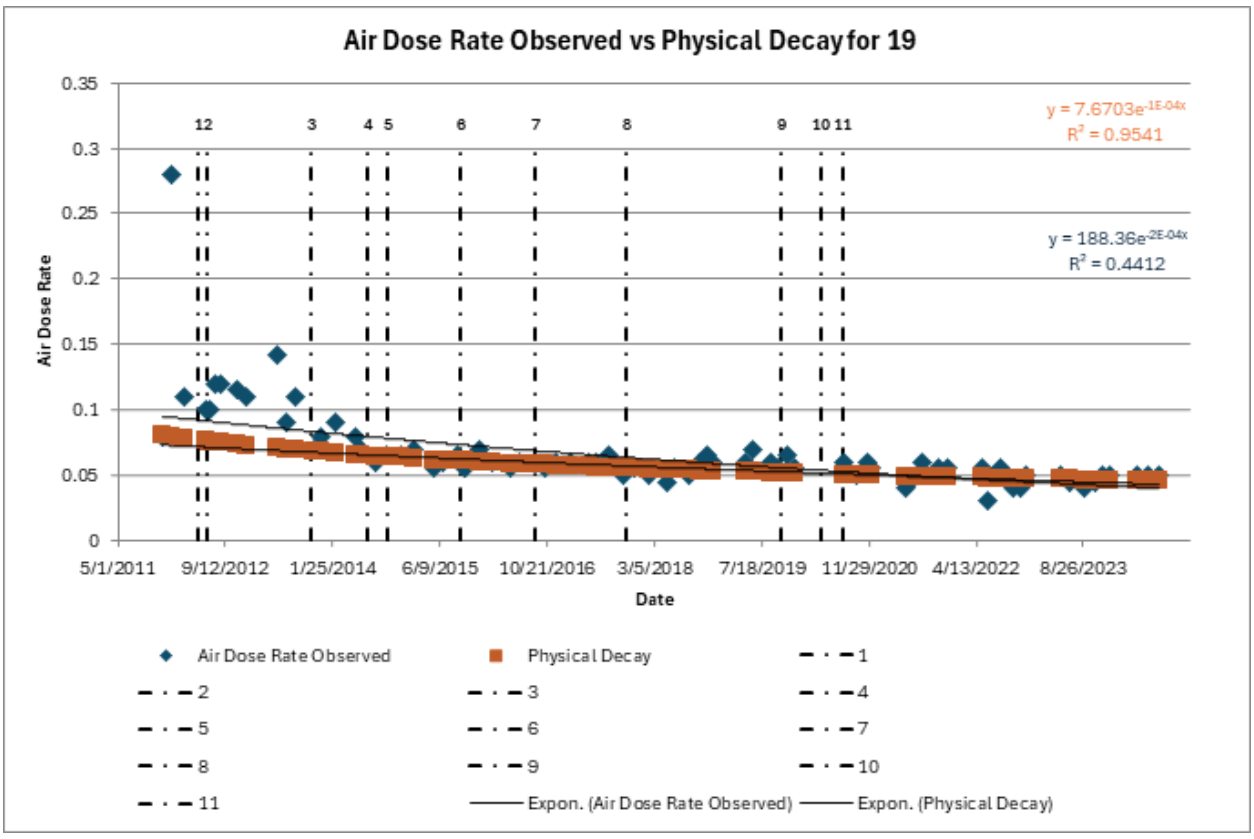

Air Dose Rate Observed vs Physical Decay for 14
y = 46.46e-1E-04x
R² = 0.9545
y = 11373e-3E-04x
R² = 0.7471
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

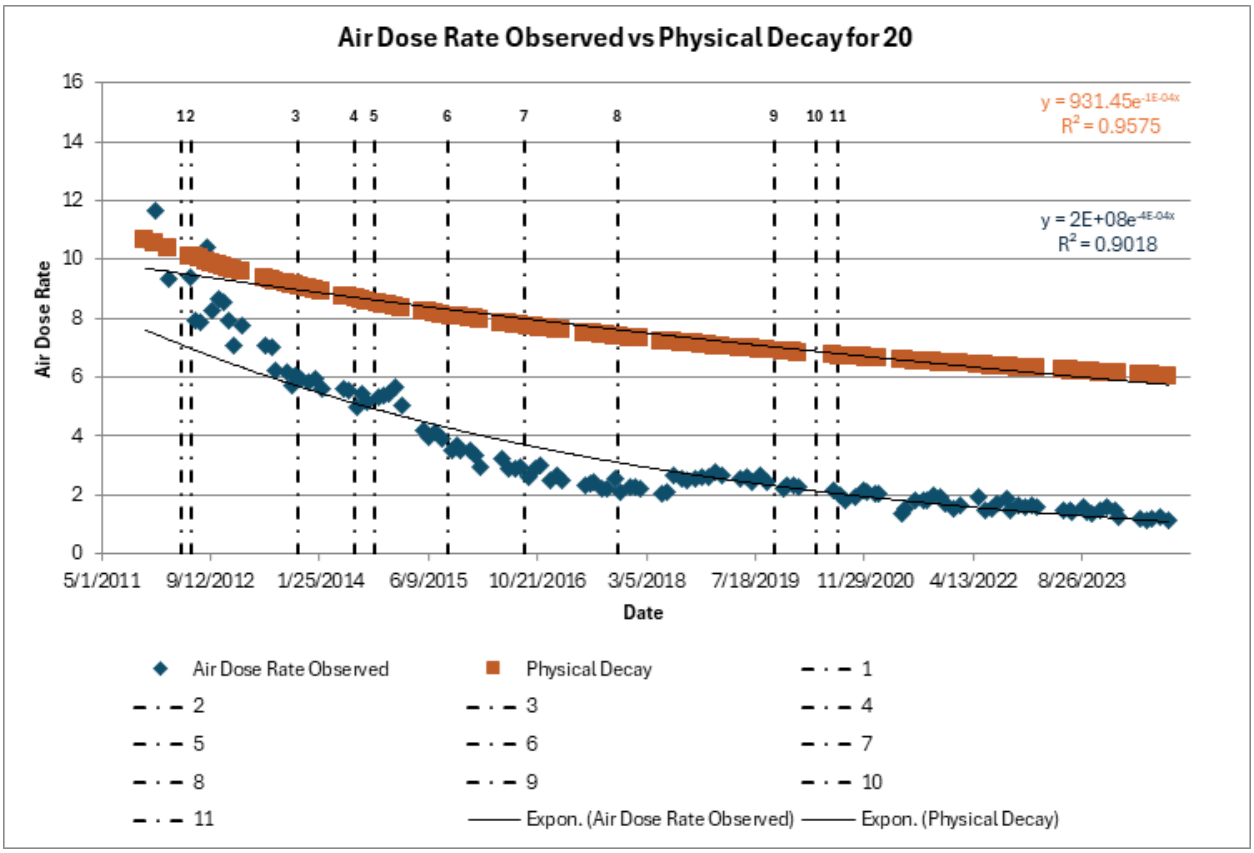

Air Dose Rate Observed vs Physical Decay for 15
y = 42.639e-1E-04x
R² = 0.9545
y = 74858e-3E-04x
R² = 0.8821
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

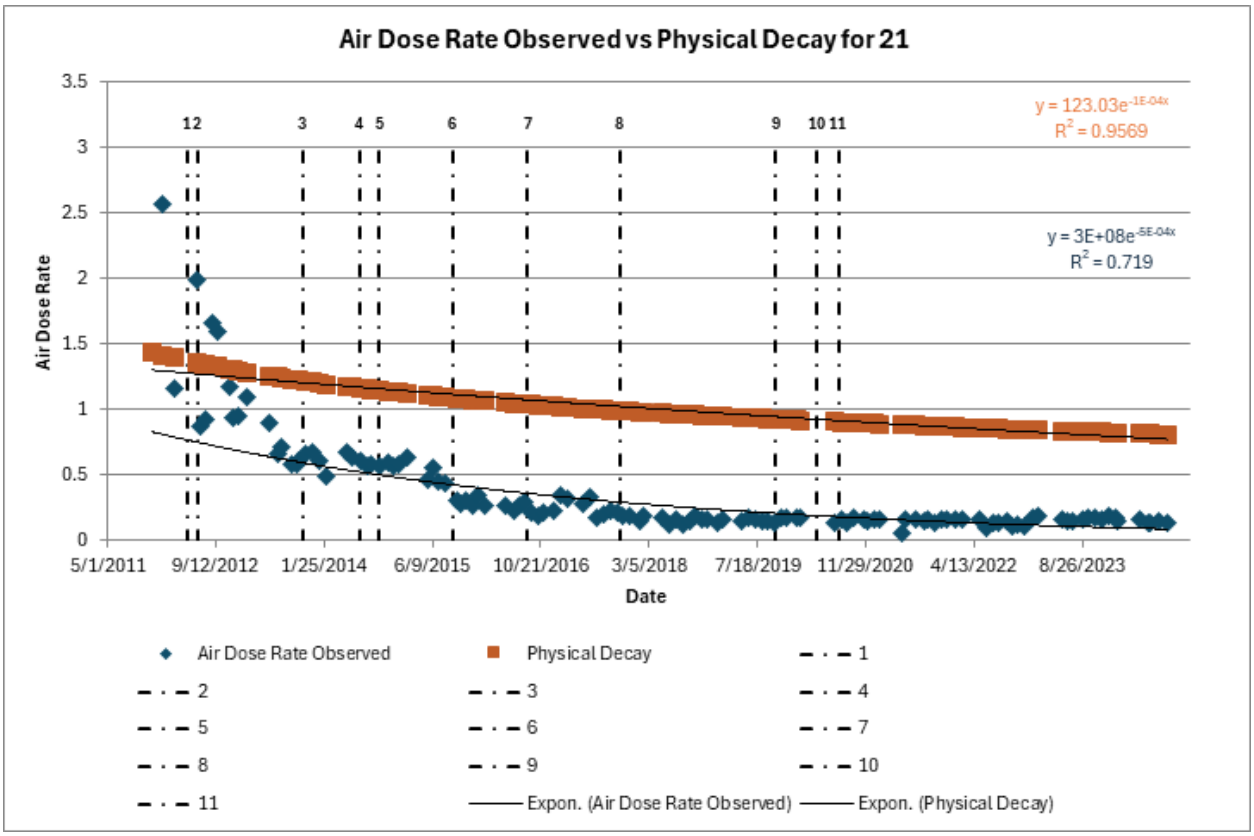

Air Dose Rate Observed vs Physical Decay for 16
Air Dose Rate
Date
y = 15.334e-1E-04x
R² = 0.954
y = 4093.6e-3E-04x
R² = 0.6121
12
3
4 5
6
7
8
9
10 11
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

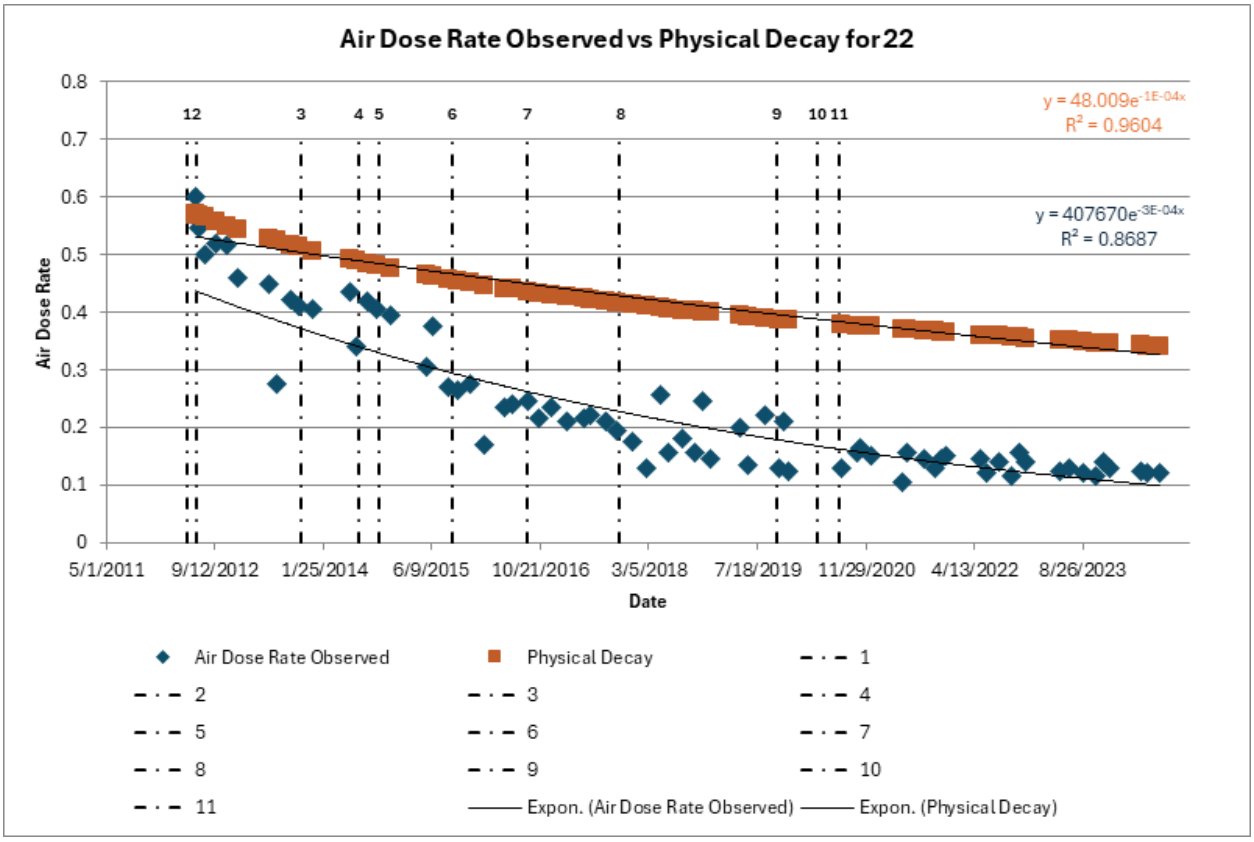

Air Dose Rate Observed vs Physical Decay for 17
Air Dose Rate
Date
y = 74.383e-1E-04x
R² = 0.9608
y = 1E+07e-4E-04x
R² = 0.8303
12
3
4 5
6
7
8
9
10 11
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

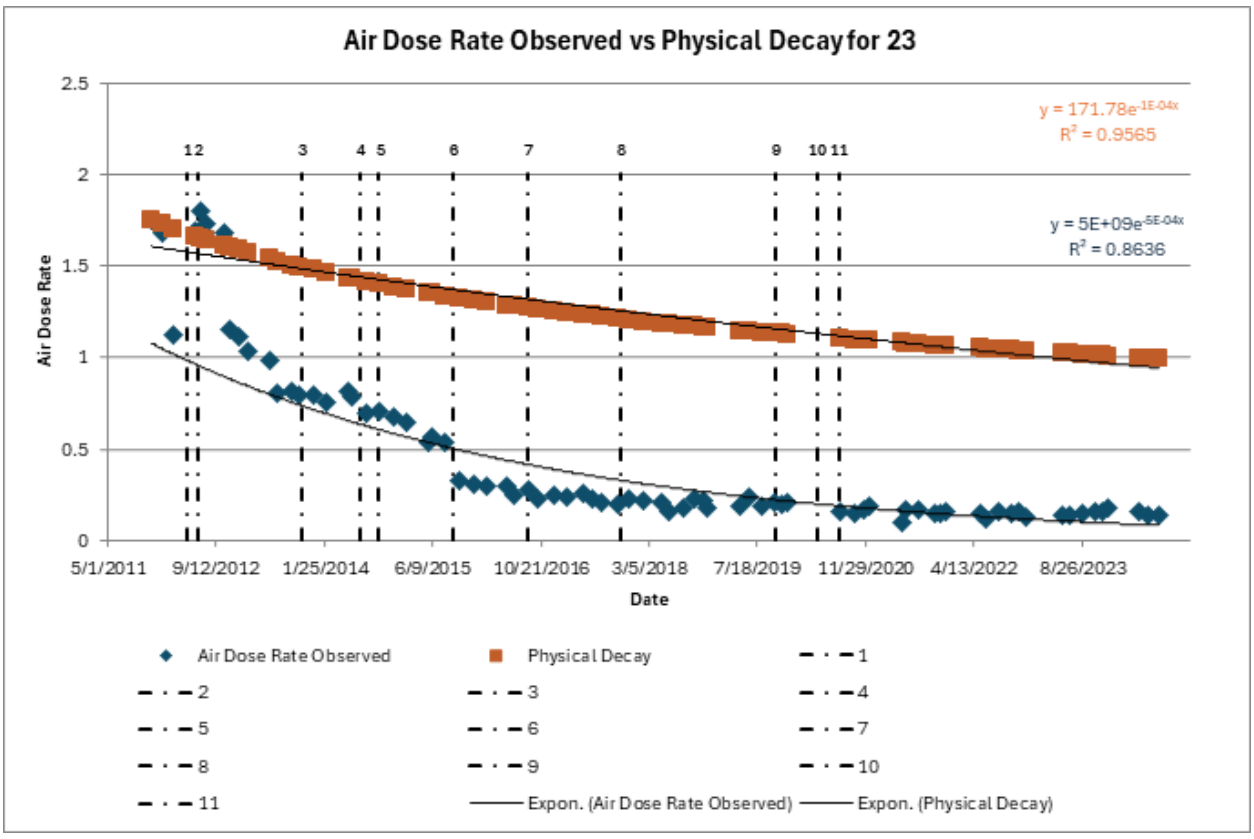

Air Dose Rate Observed vs Physical Decay for 18
y = 41.707e-1E-04x
R² = 0.9534
y = 3E+06e-4E-04x
R² = 0.663
Air Dose Rate
Date
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

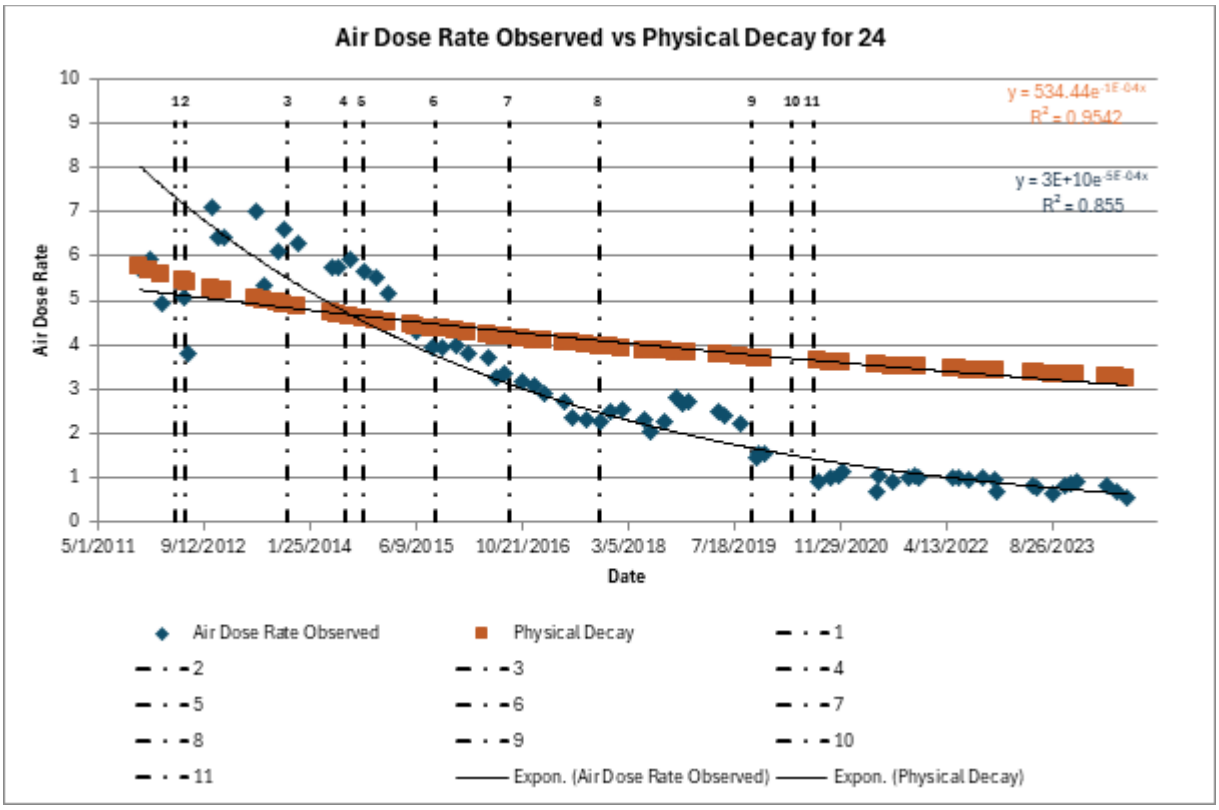

Air Dose Rate Observed vs Physical Decay for 19
y = 7.6703e-1E-04x
R² = 0.9541
y = 188.36e-2E-04x
R² = 0.4412
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

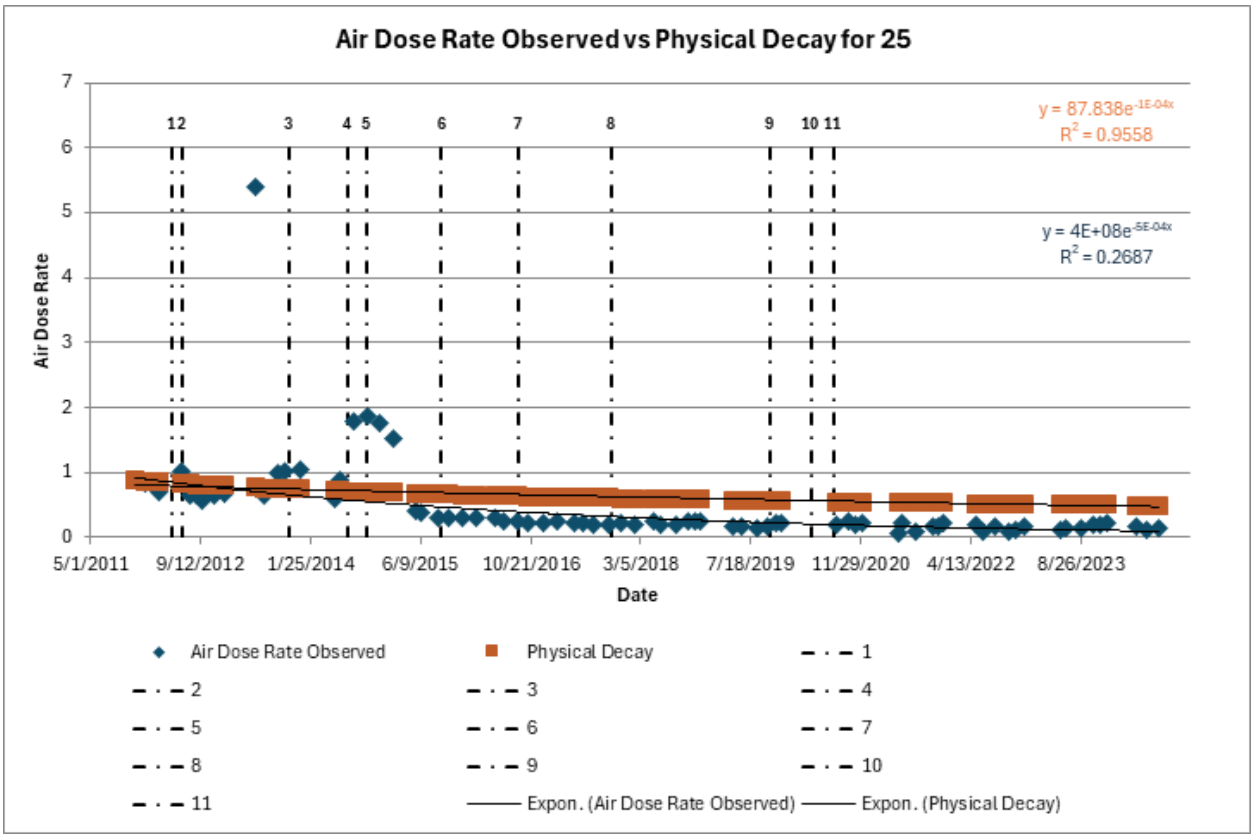

Air Dose Rate Observed vs Physical Decay for 20
y = 931.45e-1E-04x
R² = 0.9575
y = 2E+08e-4E-04x
R² = 0.9018
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

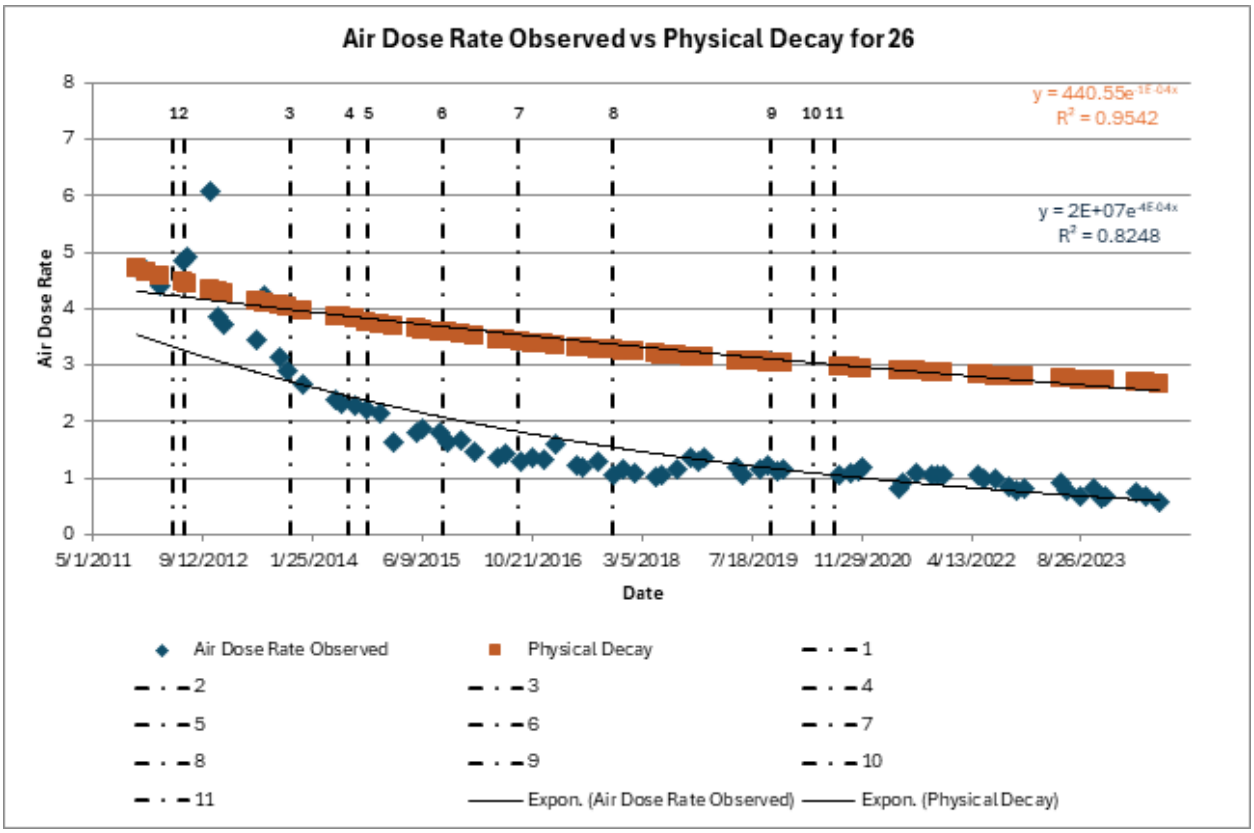

Air Dose Rate Observed vs Physical Decay for 21
y = 123.03e-1E-04x
R² = 0.9569
y = 3E+08e-5E-04x
R² = 0.719
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

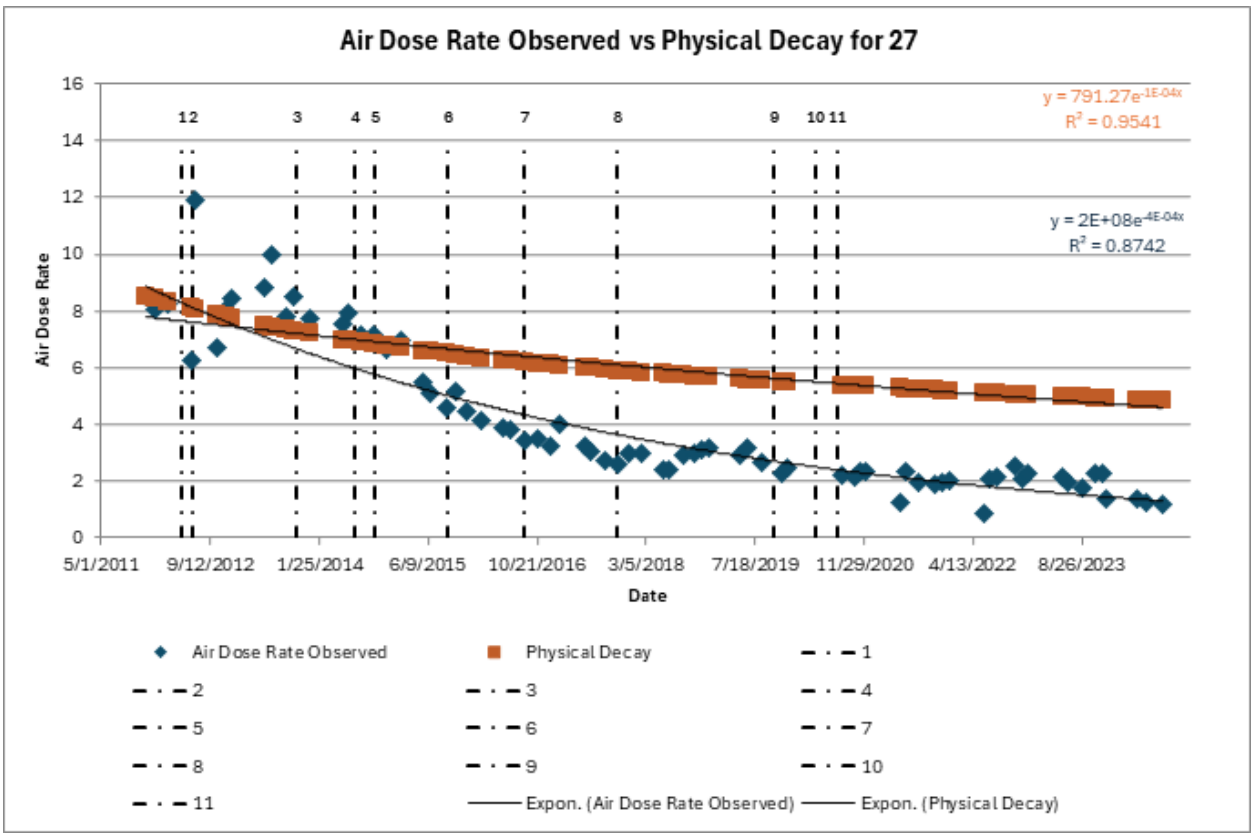

Air Dose Rate Observed vs Physical Decay for 22
y = 48.009e-1E-04x
R² = 0.9604
y = 407670e-3E-04x
R² = 0.8687
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

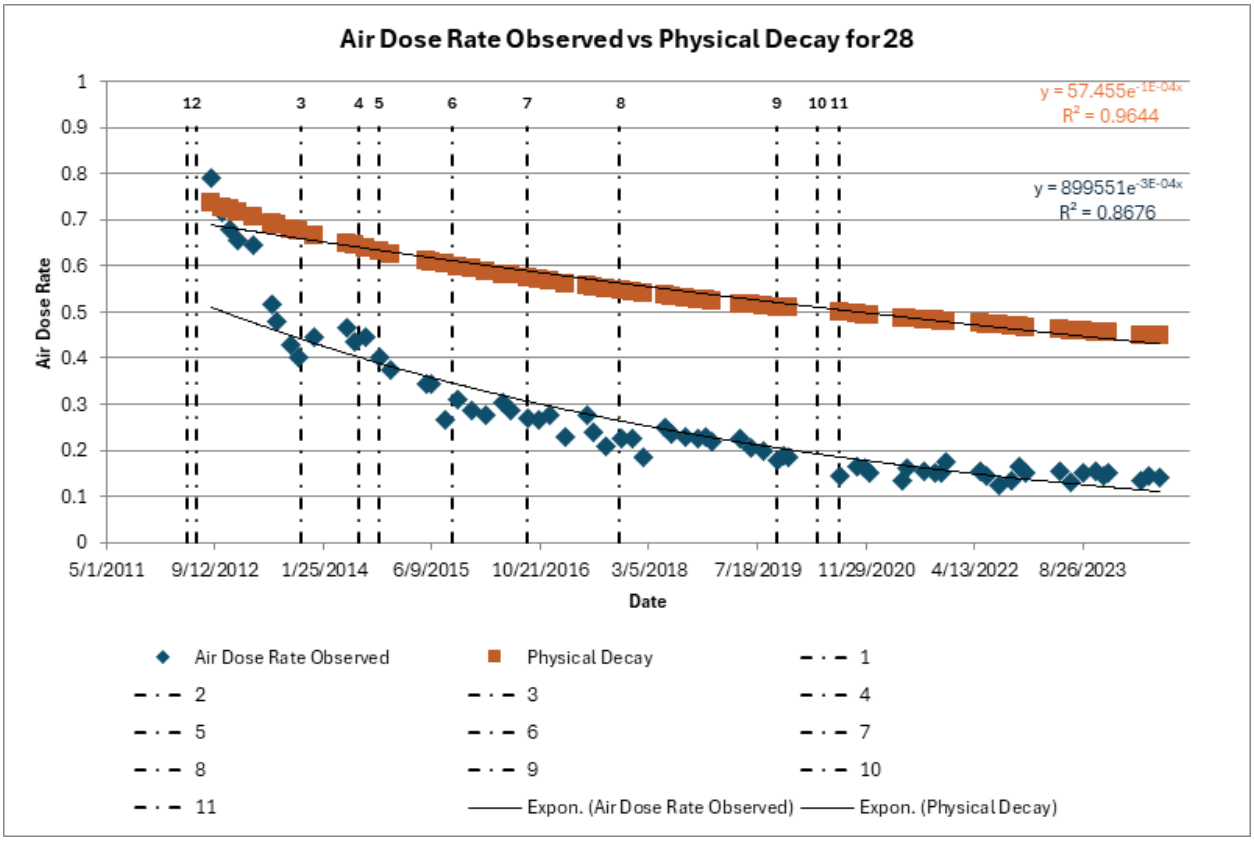

Air Dose Rate Observed vs Physical Decay for 23
y = 171.78e-1E-04x
R² = 0.9565
y = 5E+09e-5E-04x
R² = 0.8636
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
2.5
2
1.5
1
0.5
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

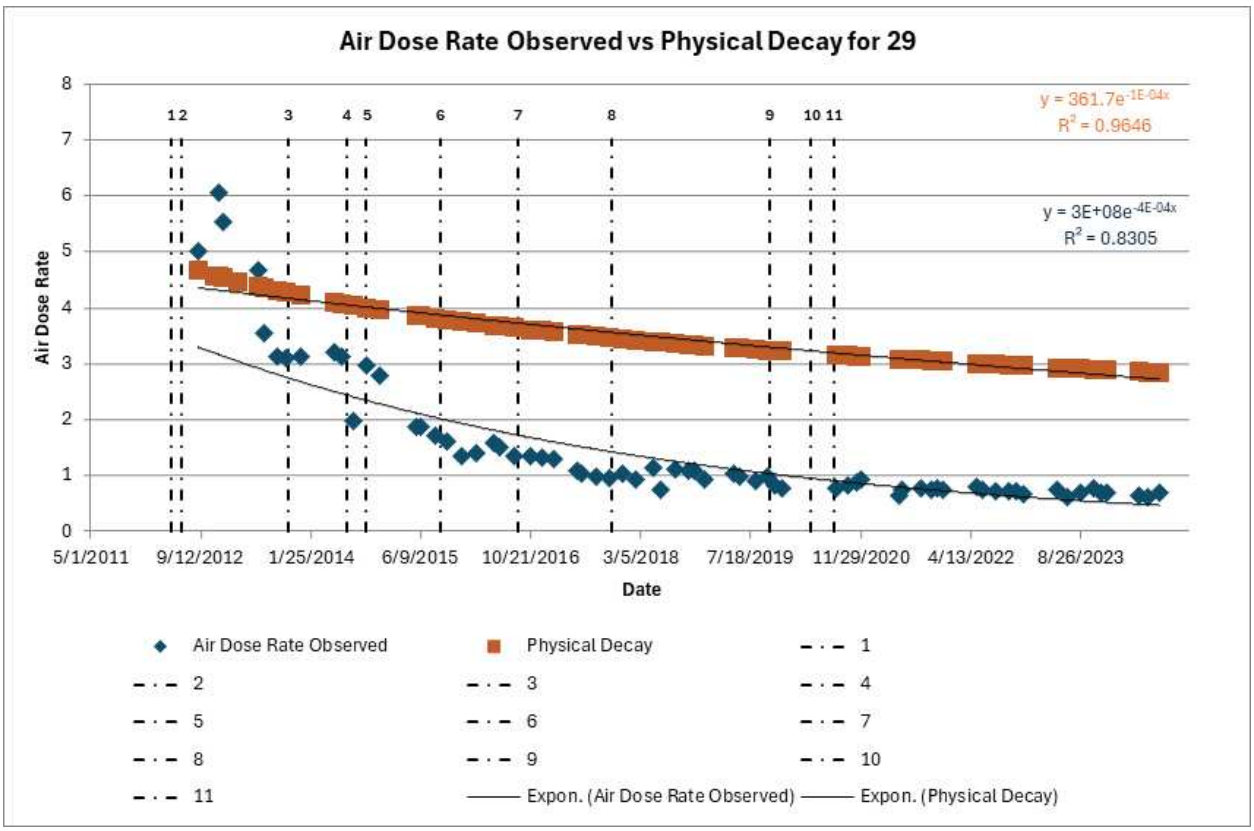

Air Dose Rate Observed vs Physical Decay for 24
y = 534.44e-1E-04x
R2 = 0.9542
y = 3E+10e-5E-04x
R2 = 0.855
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

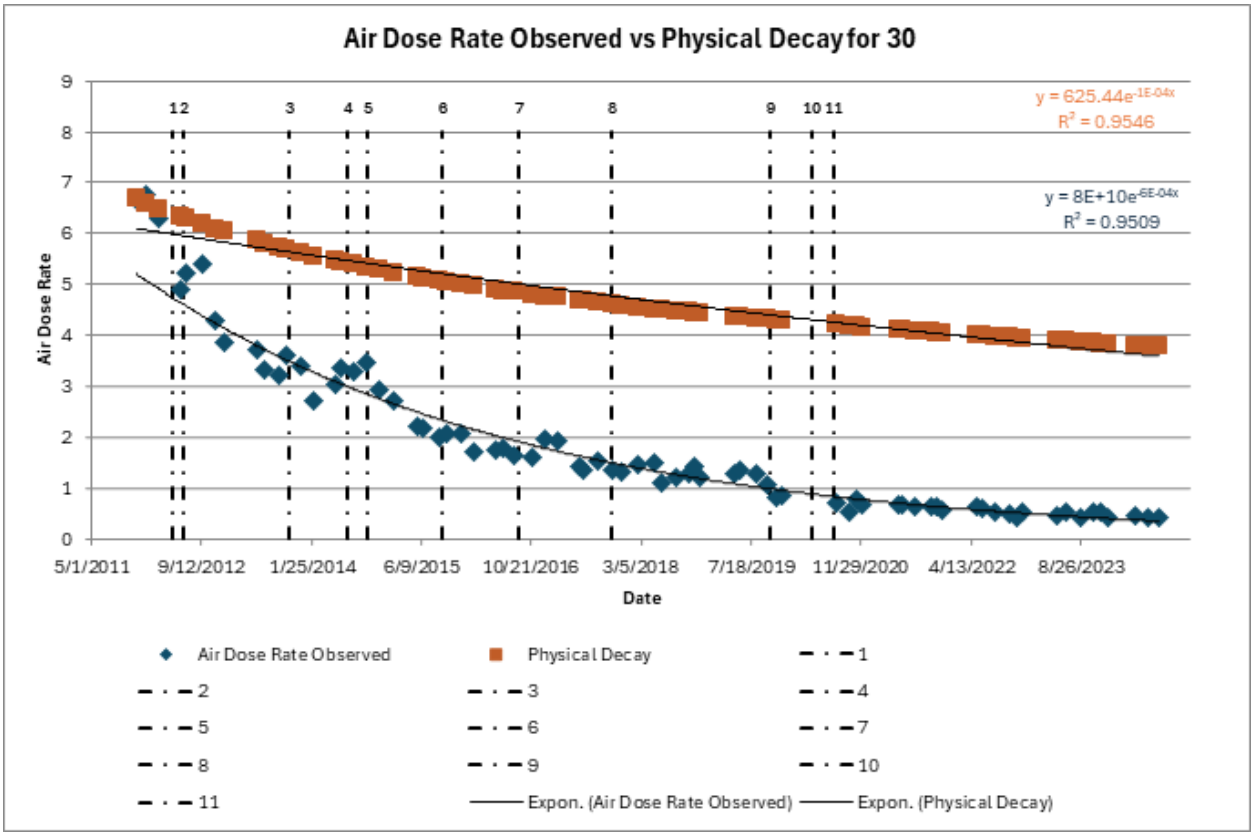

Air Dose Rate Observed vs Physical Decay for 25
y = 87.838e-1E-04x
R2 = 0.9558
y = 4E+08e-5E-04x
R2 = 0.2687
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

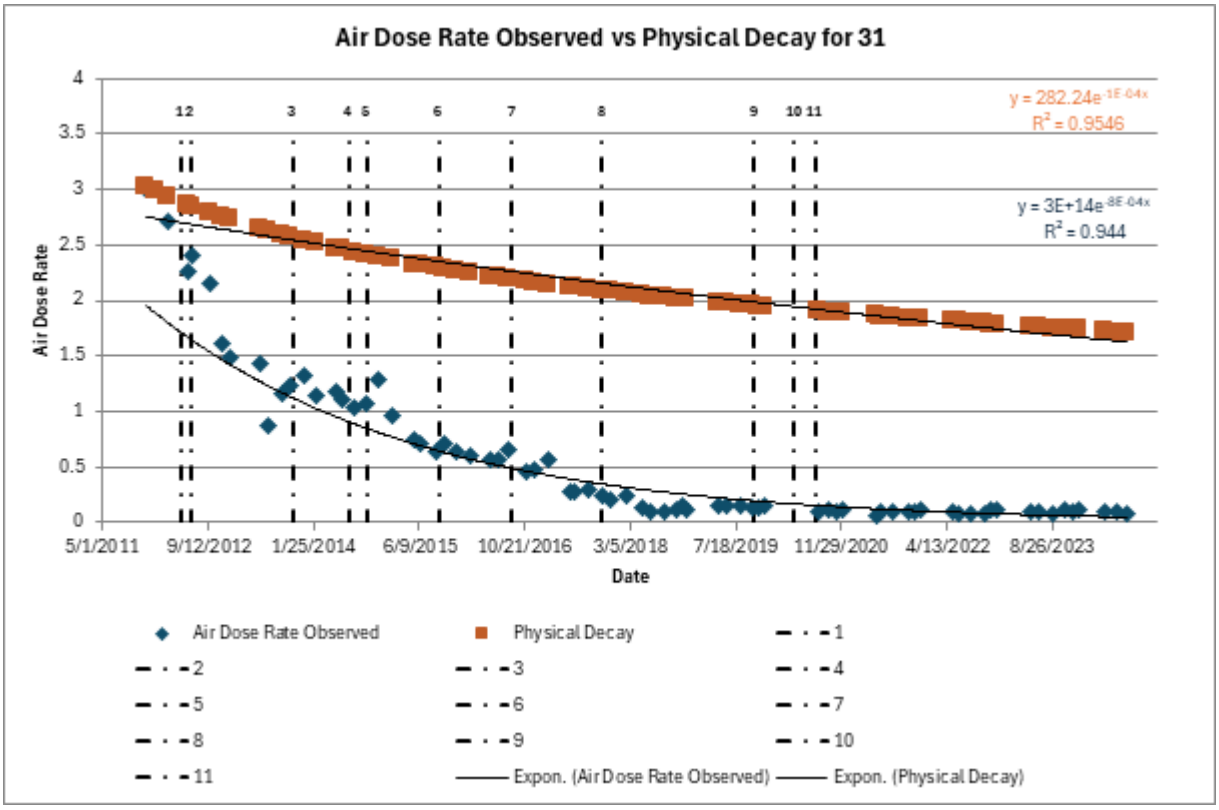

Air Dose Rate Observed vs Physical Decay for 26
y = 440.55e-1E-04x
R² = 0.9542
y = 2E+07e-4E-04x
R² = 0.8248
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0
1
2
3
4
5
6
7
8
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

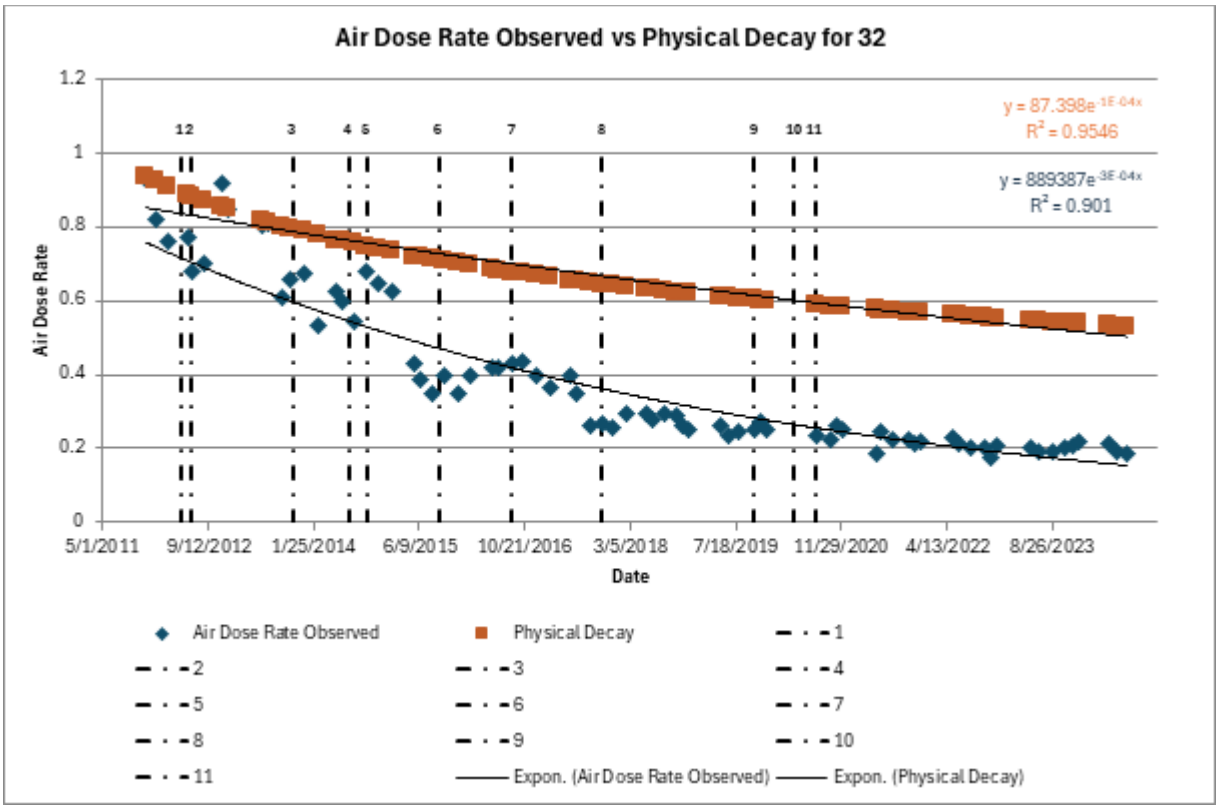

Air Dose Rate Observed vs Physical Decay for 27
y = 791.27e-1E-04x
R² = 0.9541
y = 2E+08e-4E-04x
R² = 0.8742
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0
2
4
6
8
10
12
14
16
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

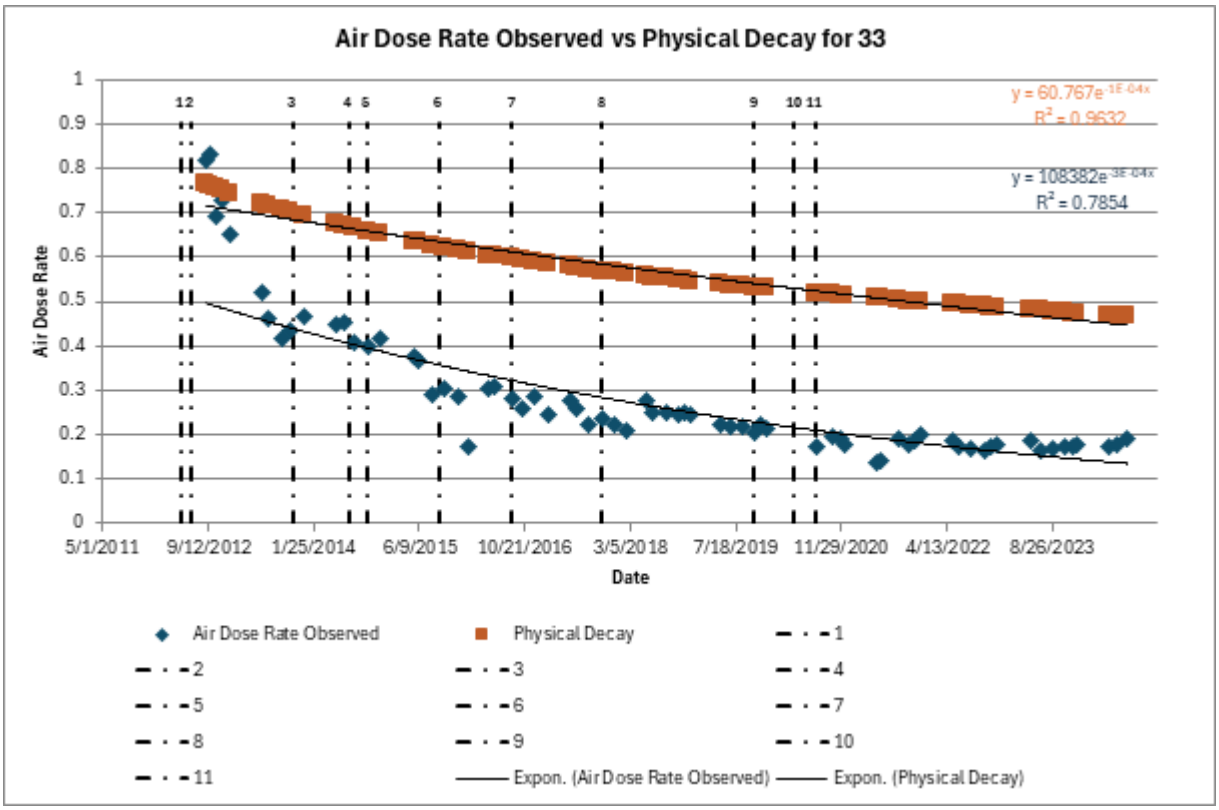

Air Dose Rate Observed vs Physical Decay for 28
y = 57.455e-1E-04x
R² = 0.9644
y = 899551e-3E-04x
R² = 0.8676
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

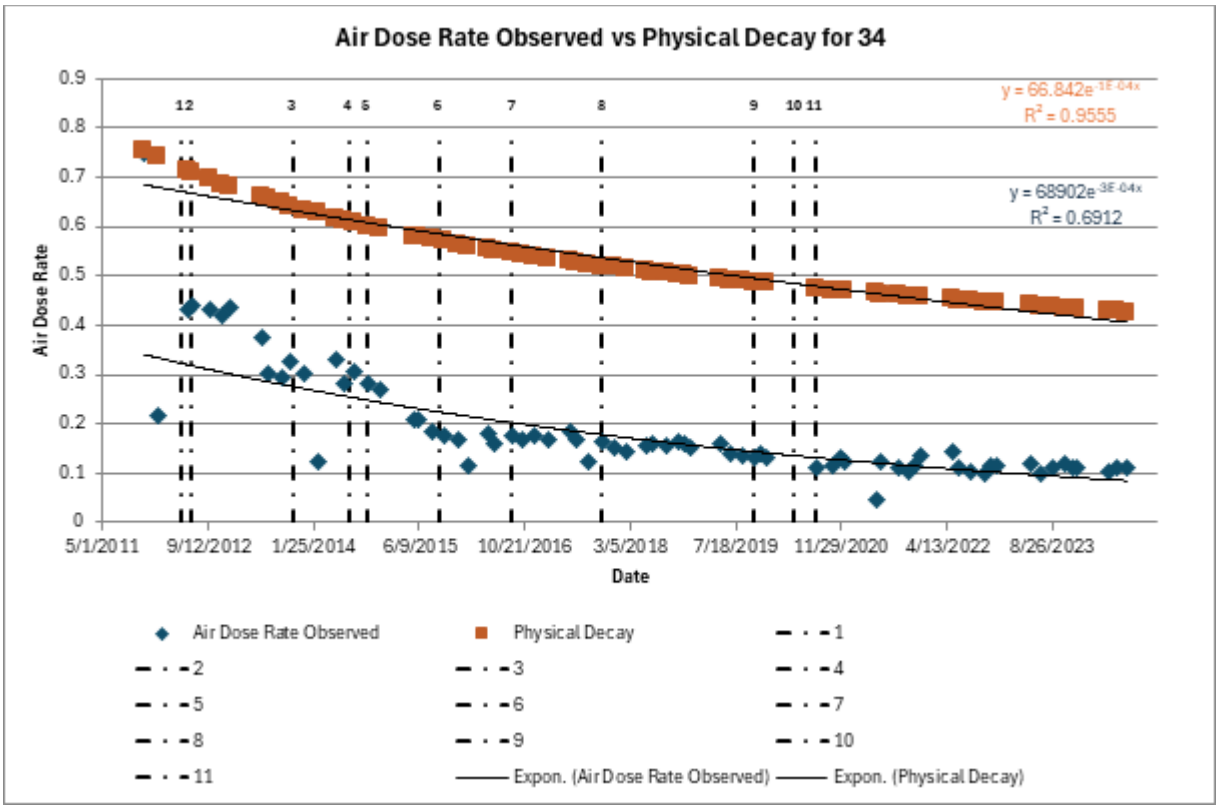

Air Dose Rate Observed vs Physical Decay for 29
y = 361.7e-1E-04x
R² = 0.9646
y = 3E+08e-4E-04x
R² = 0.8305
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

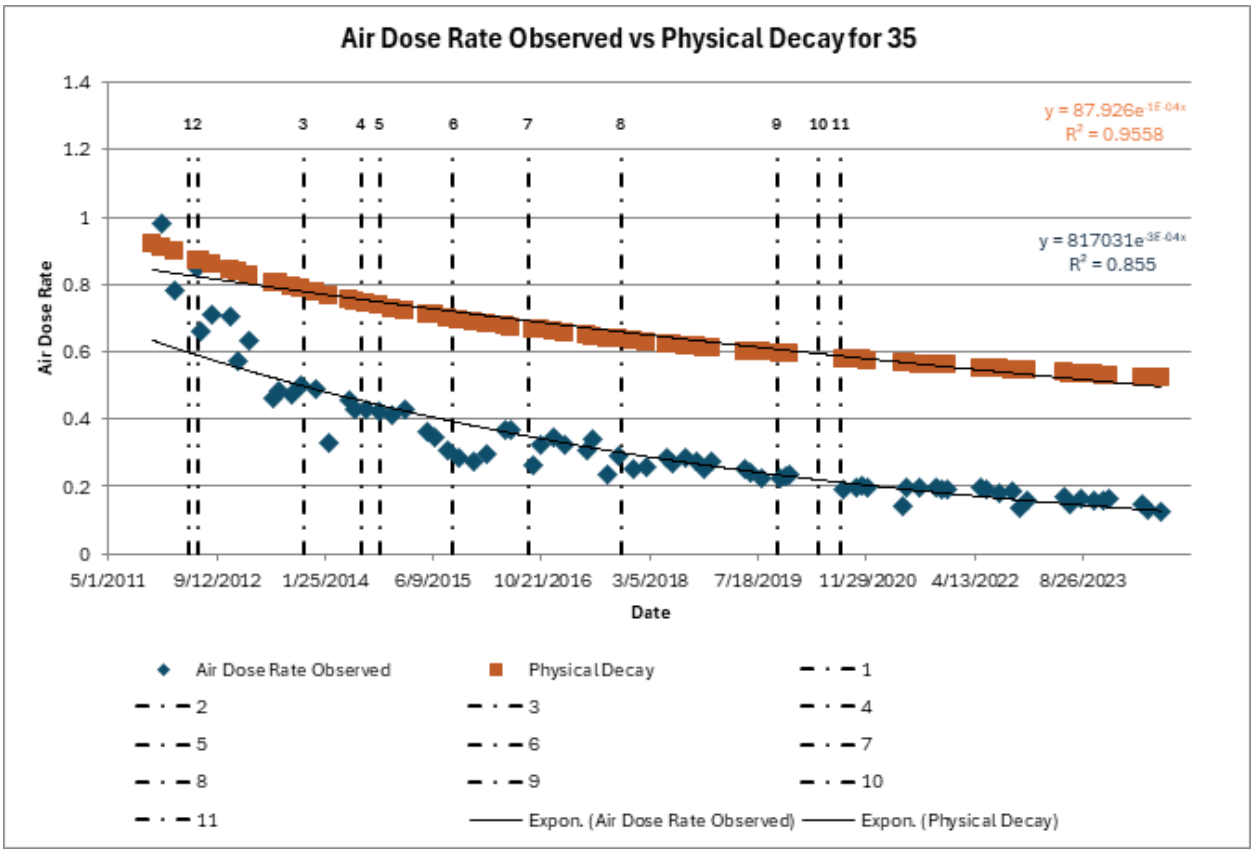

Air Dose Rate Observed vs Physical Decay for 30
y = 625.44e-1E-04x
R² = 0.9546
y = 8E+10e-6E-04x
R² = 0.9509
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

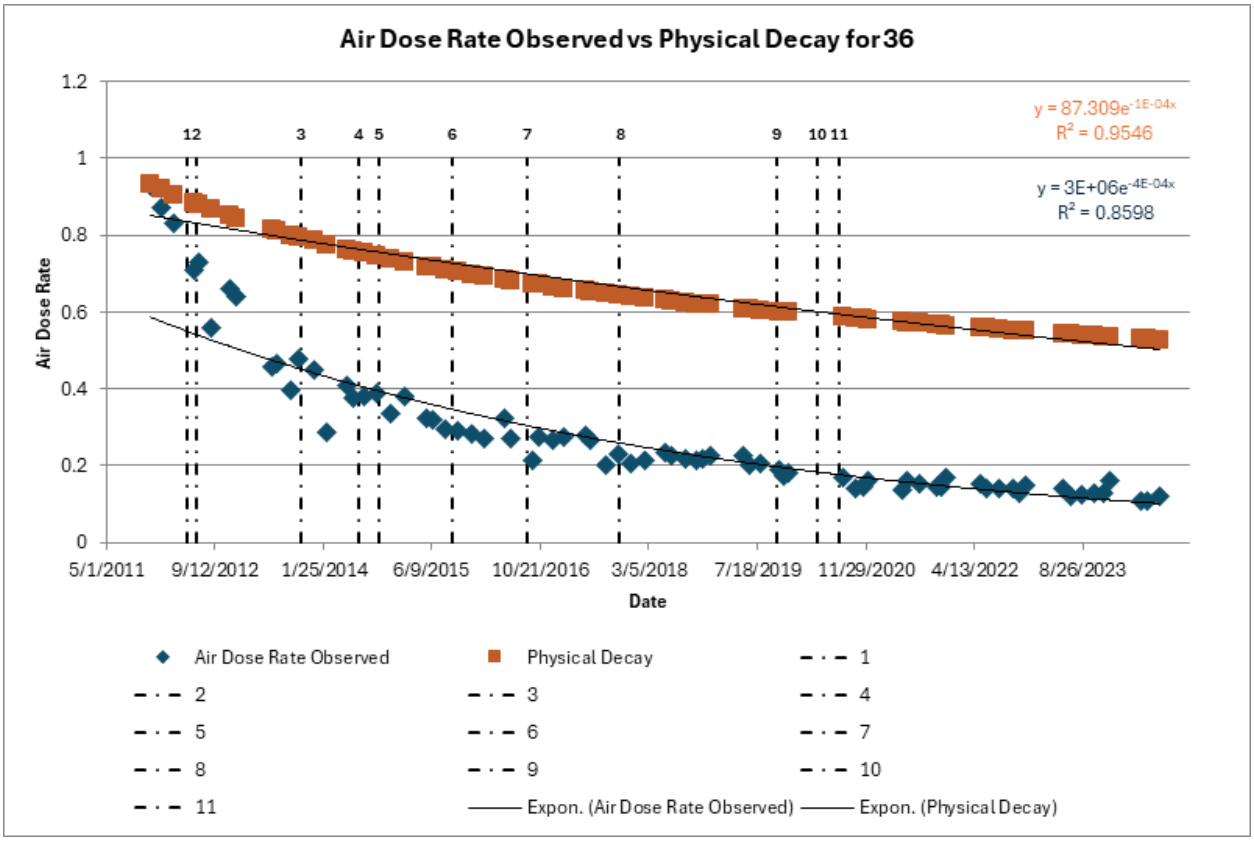

Air Dose Rate Observed vs Physical Decay for 31
y = 282.24e-1E-04x
R² = 0.9546
y = 3E+14e-8E-04x
R² = 0.944
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

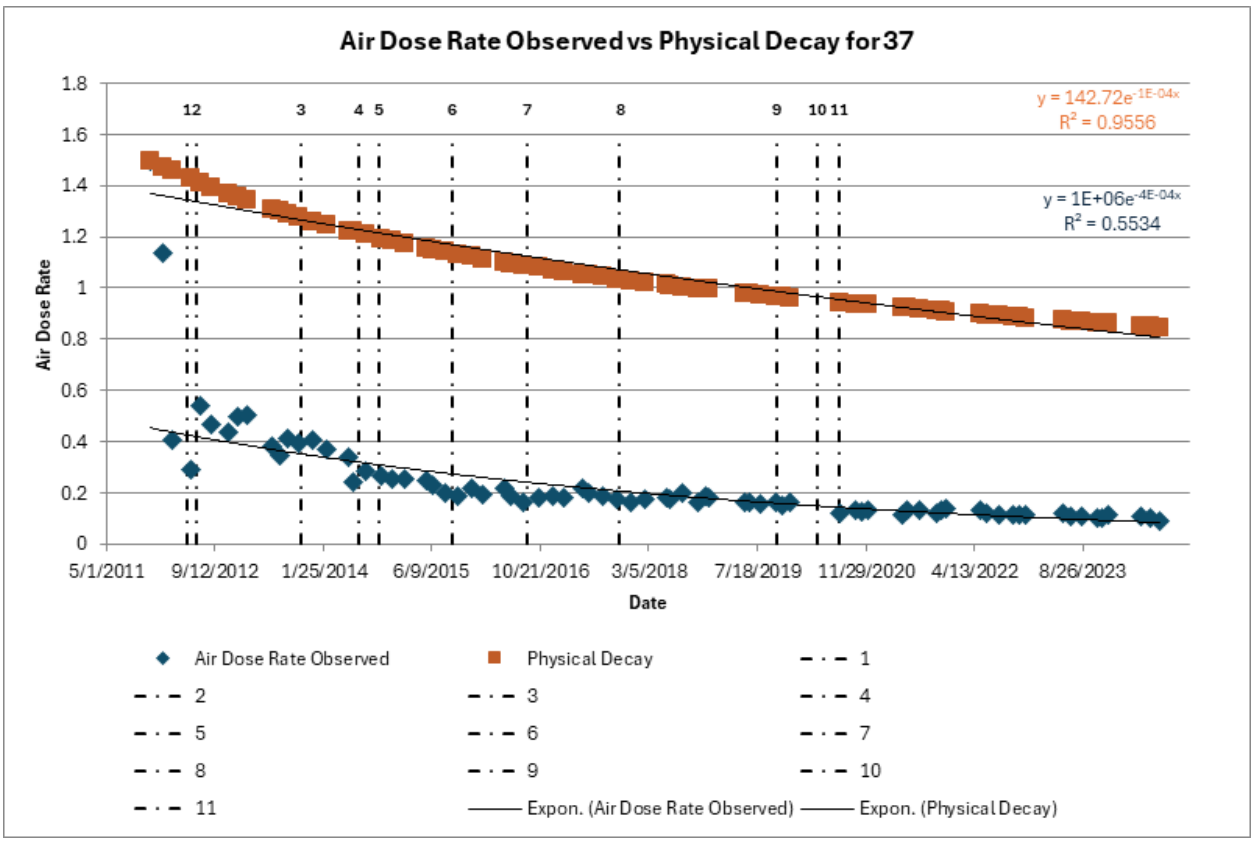

Air Dose Rate Observed vs Physical Decay for 32
y = 87.398e-1E-04x
R² = 0.9546
y = 889387e-3E-04x
R² = 0.901
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

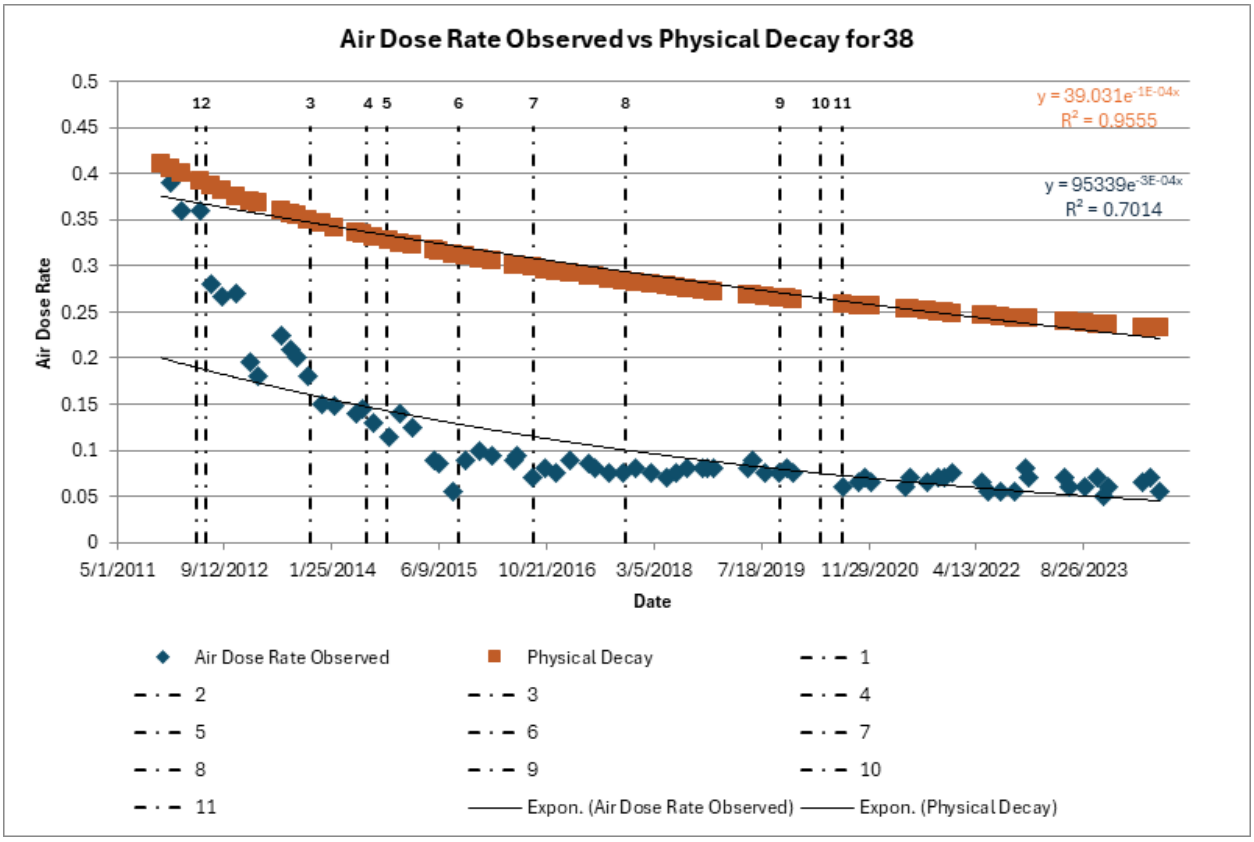

Air Dose Rate Observed vs Physical Decay for 33
y = 60.767e-1E-04x
R² = 0.9632
y = 108382e-3E-04x
R² = 0.7854
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

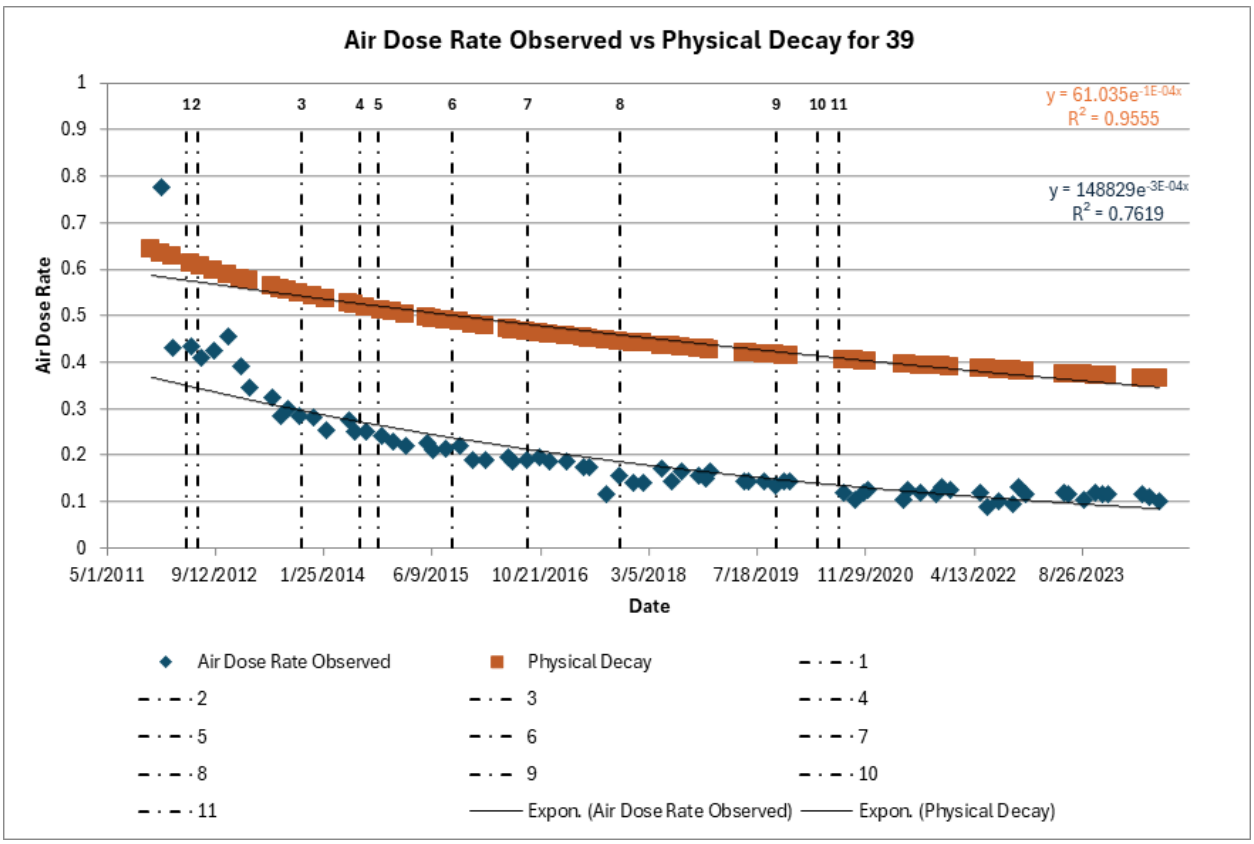

Air Dose Rate Observed vs Physical Decay for 34
y = 66.842e-3E-04x
R² = 0.9555
y = 68902e-3E-04x
R² = 0.6912
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

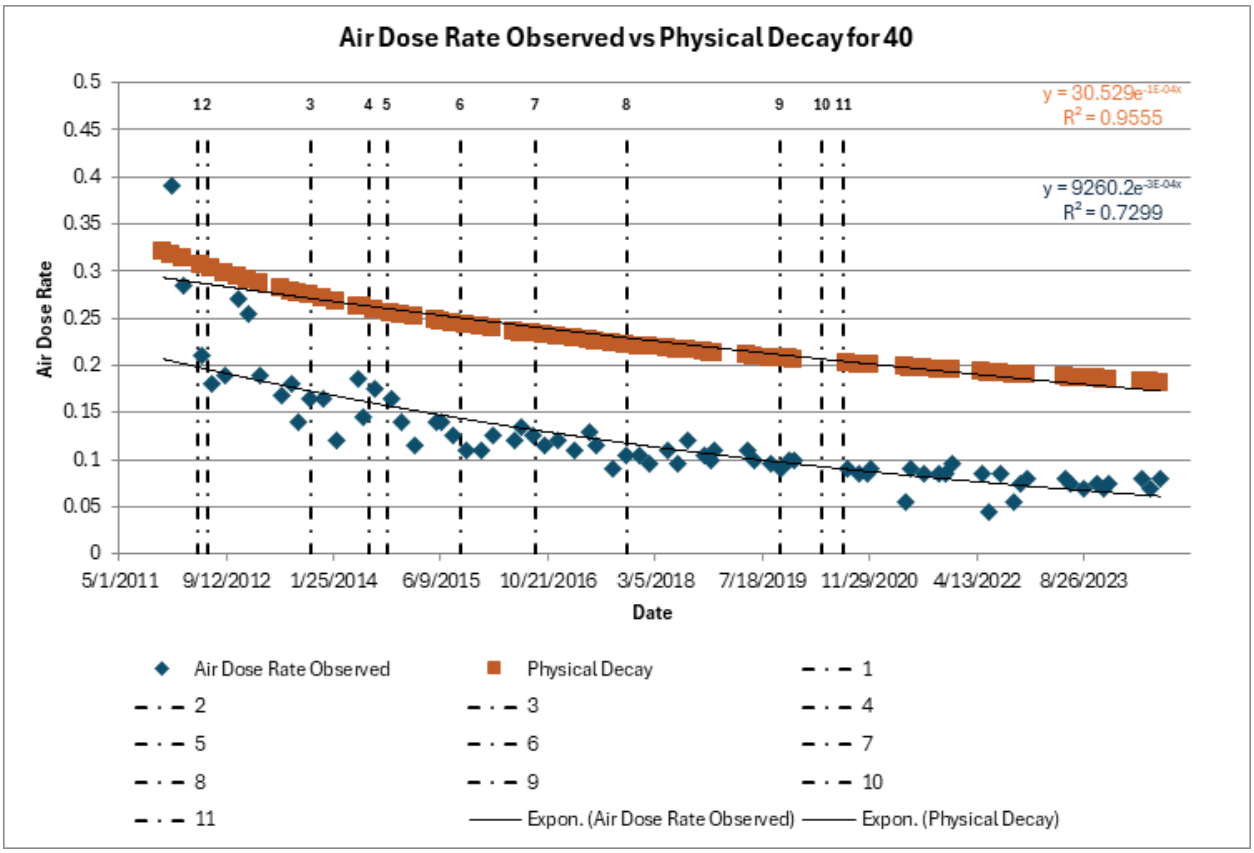

Air Dose Rate Observed vs Physical Decay for 35
y = 87.926e-1E-04x
R² = 0.9558
y = 817031e-3E-04x
R² = 0.855
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

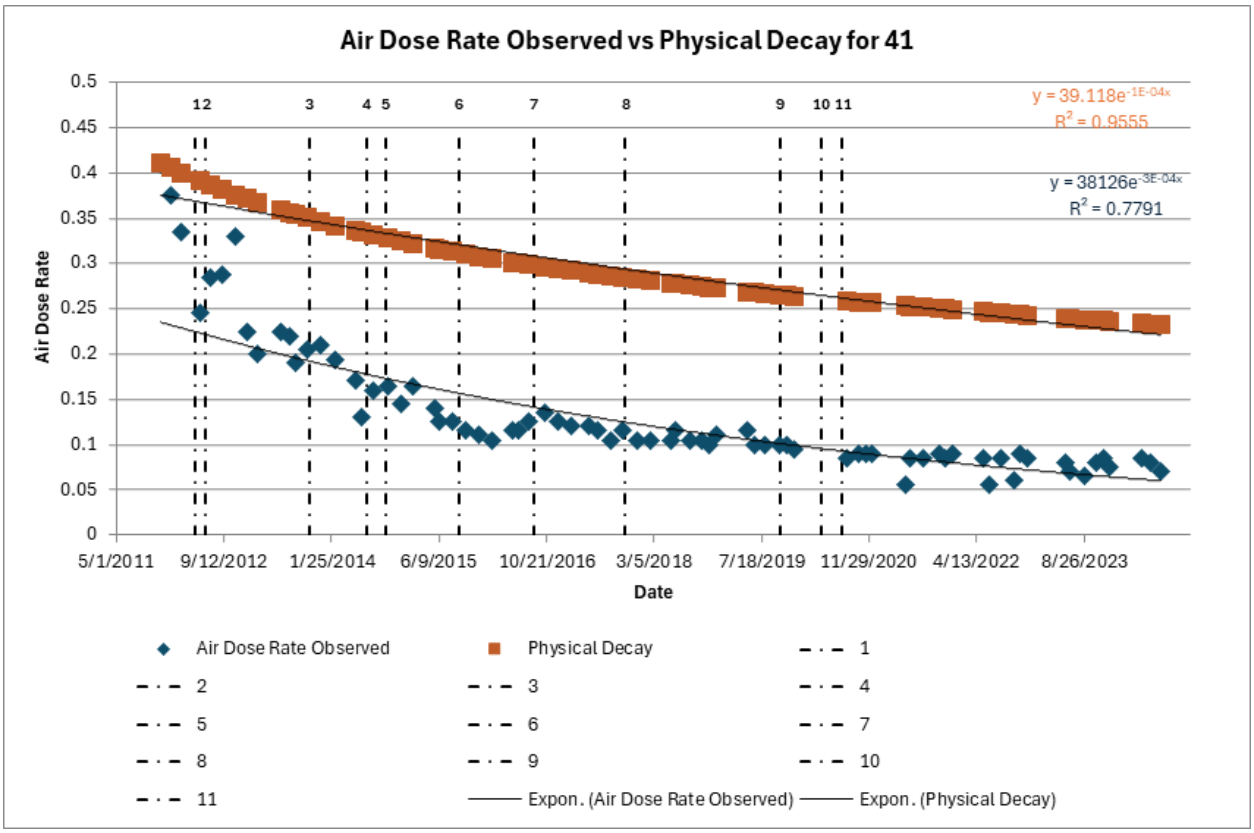

Air Dose Rate Observed vs Physical Decay for 36
y = 87.309e-1E-04x
R² = 0.9546
y = 3E+06e-4E-04x
R² = 0.8598
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

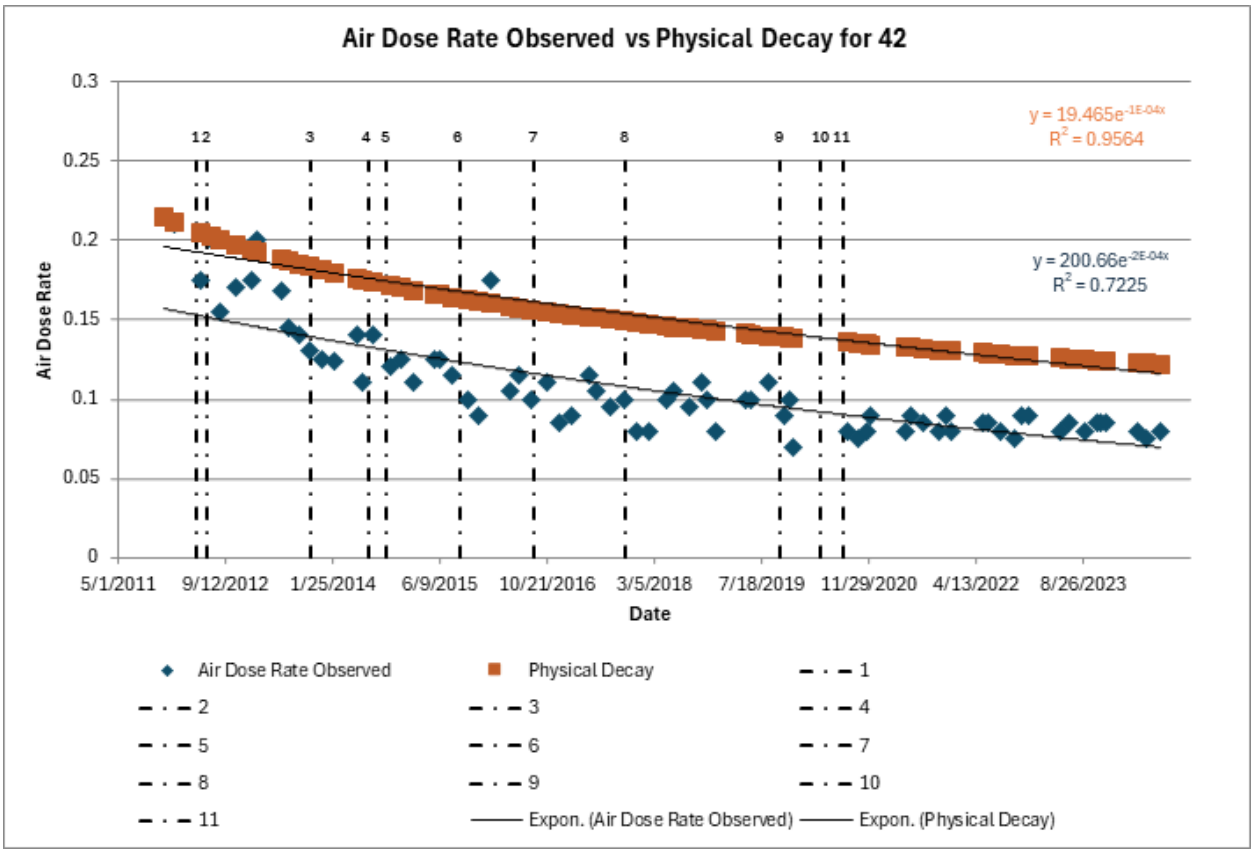

Air Dose Rate Observed vs Physical Decay for 37
y = 142.72e-1E-04x
R² = 0.9556
y = 1E+06e-4E-04x
R² = 0.5534
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

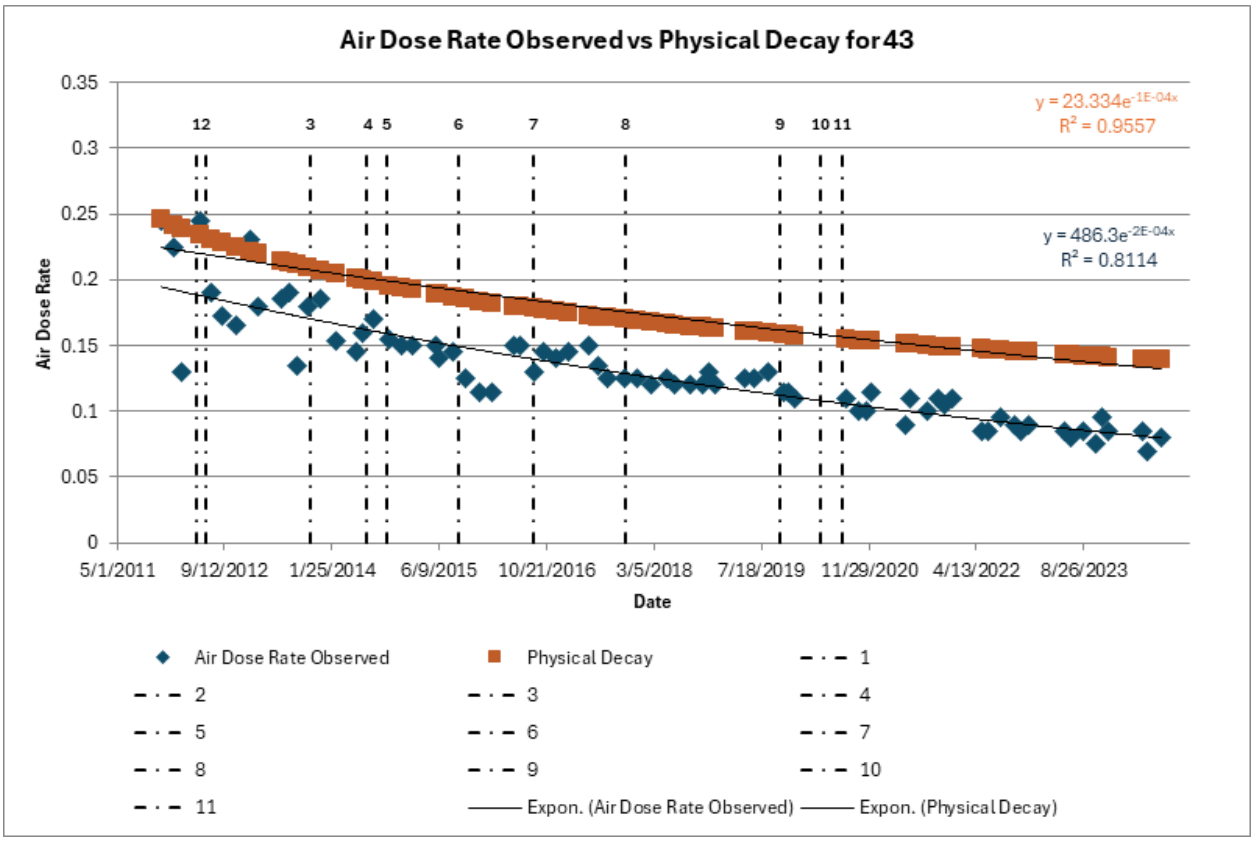

Air Dose Rate Observed vs Physical Decay for 38
y = 39.031e-1E-04x
R² = 0.9555
y = 95339e-3E-04x
R² = 0.7014
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

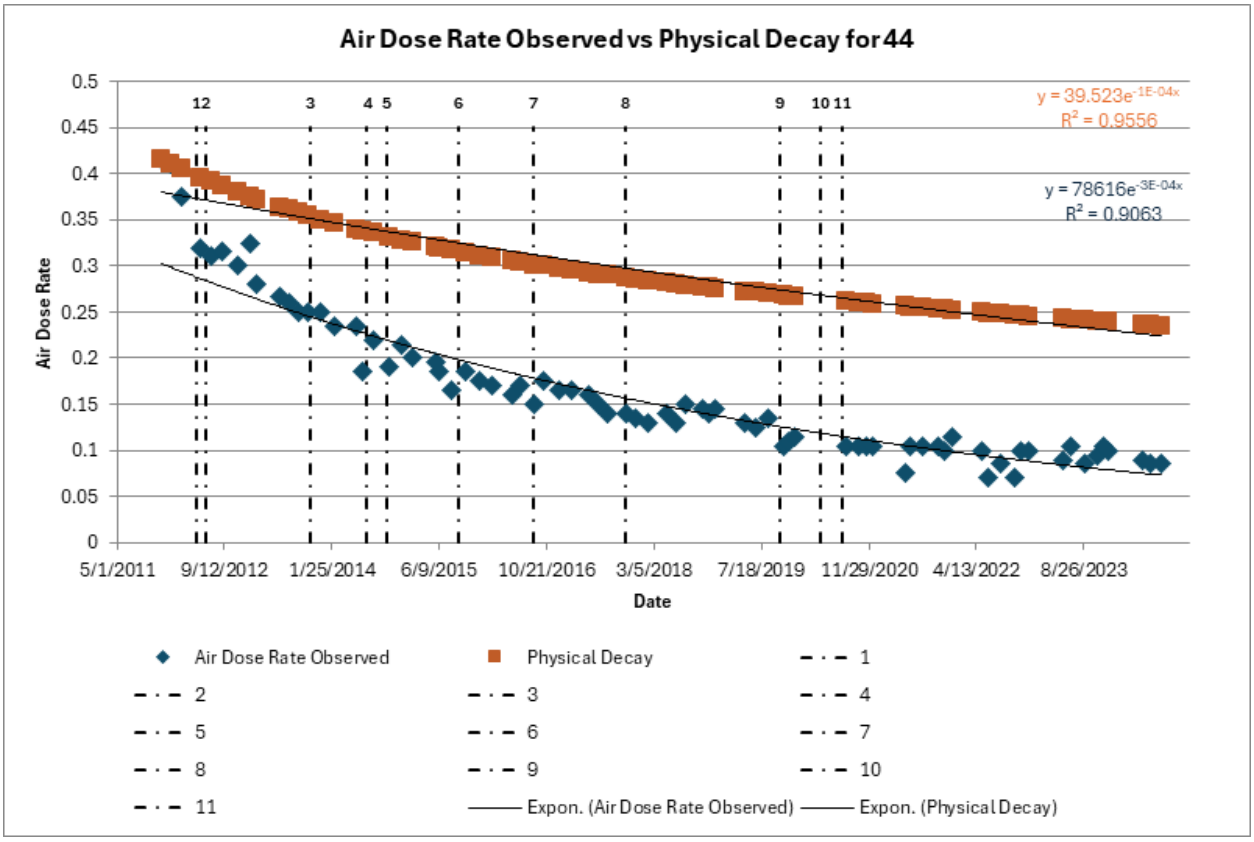

Air Dose Rate Observed vs Physical Decay for 39
y = 61.035e-1E-04x
R² = 0.9555
y = 148829e-3E-04x
R² = 0.7619
Air Dose Rate
Date
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

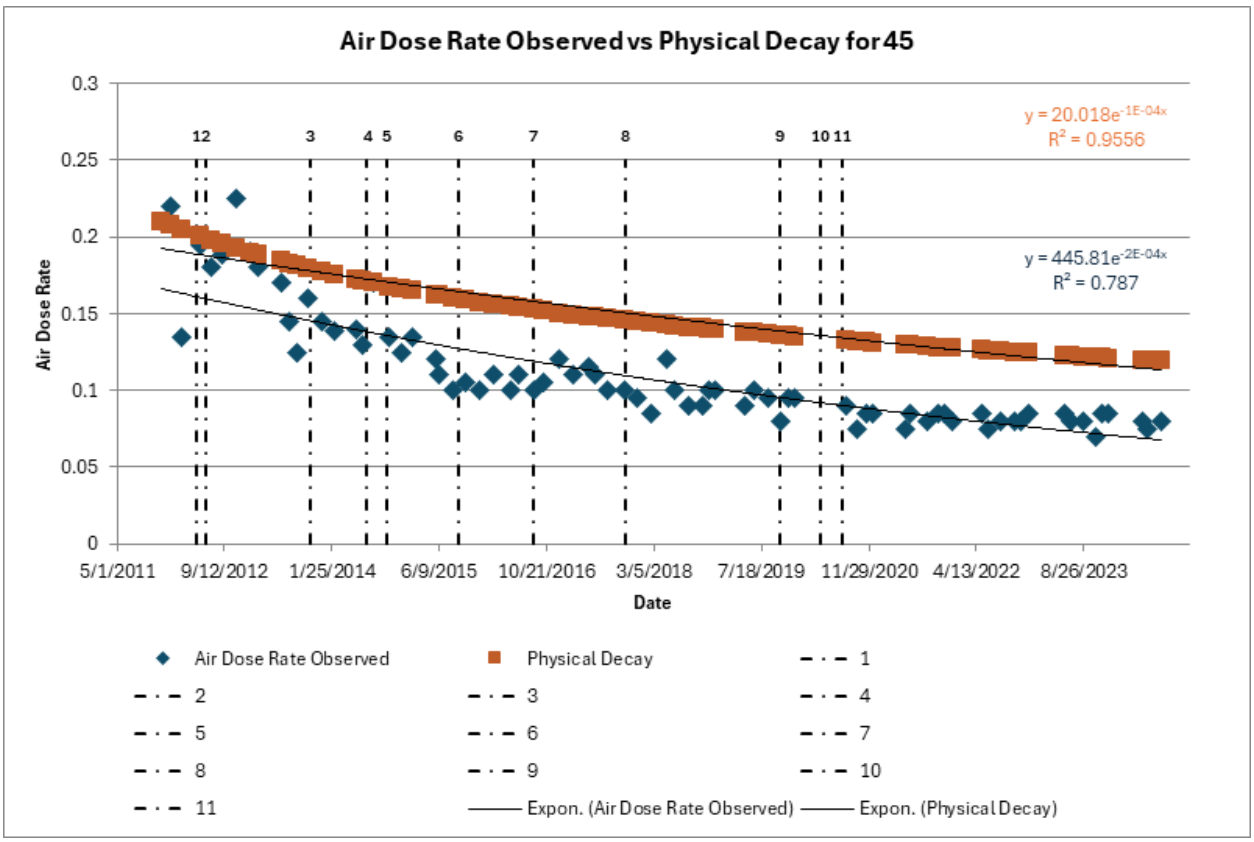

Air Dose Rate Observed vs Physical Decay for 40
y = 30.529e-1E-04x
R² = 0.9555
y = 9260.2e-3E-04x
R² = 0.7299
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

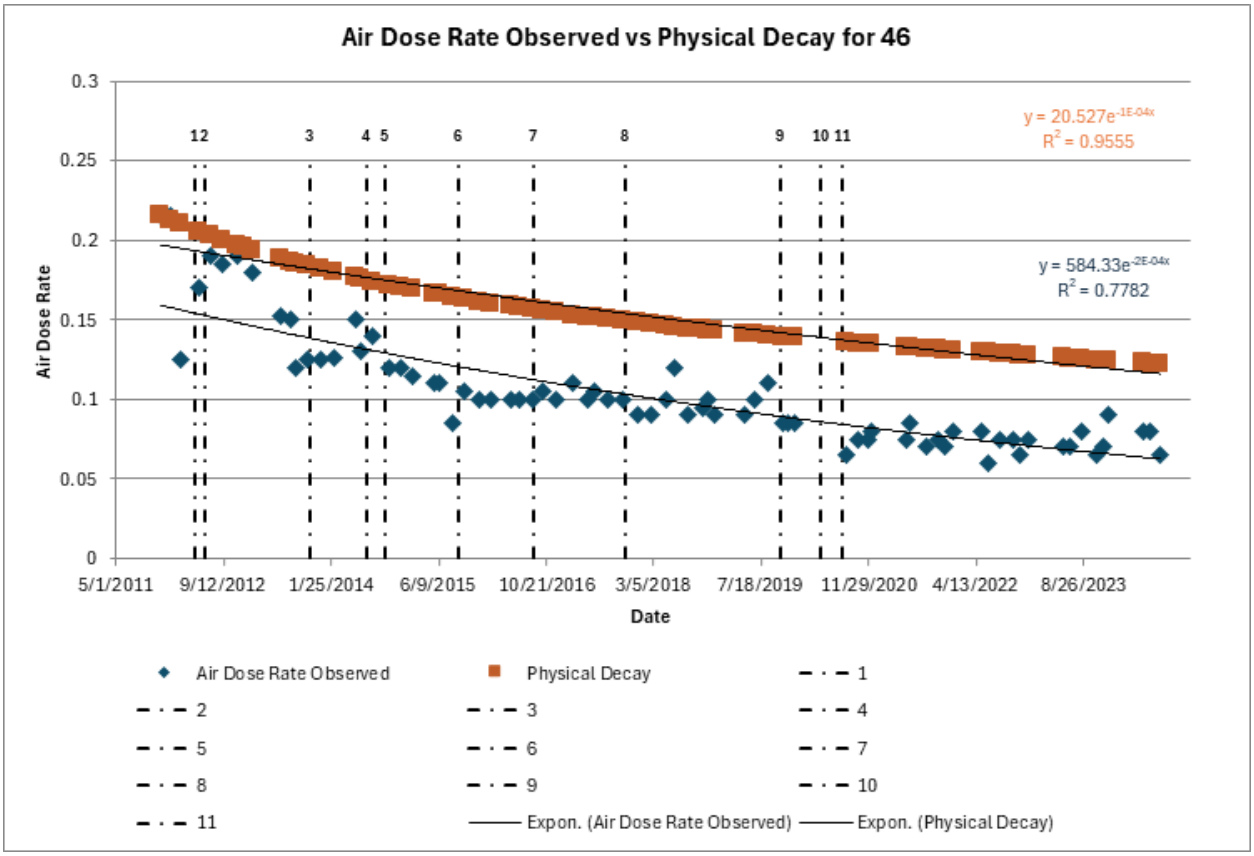

Air Dose Rate Observed vs Physical Decay for 41
y = 39.118e-1E-04x
R² = 0.9555
y = 38126e-3E-04x
R² = 0.7791
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
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8
9
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

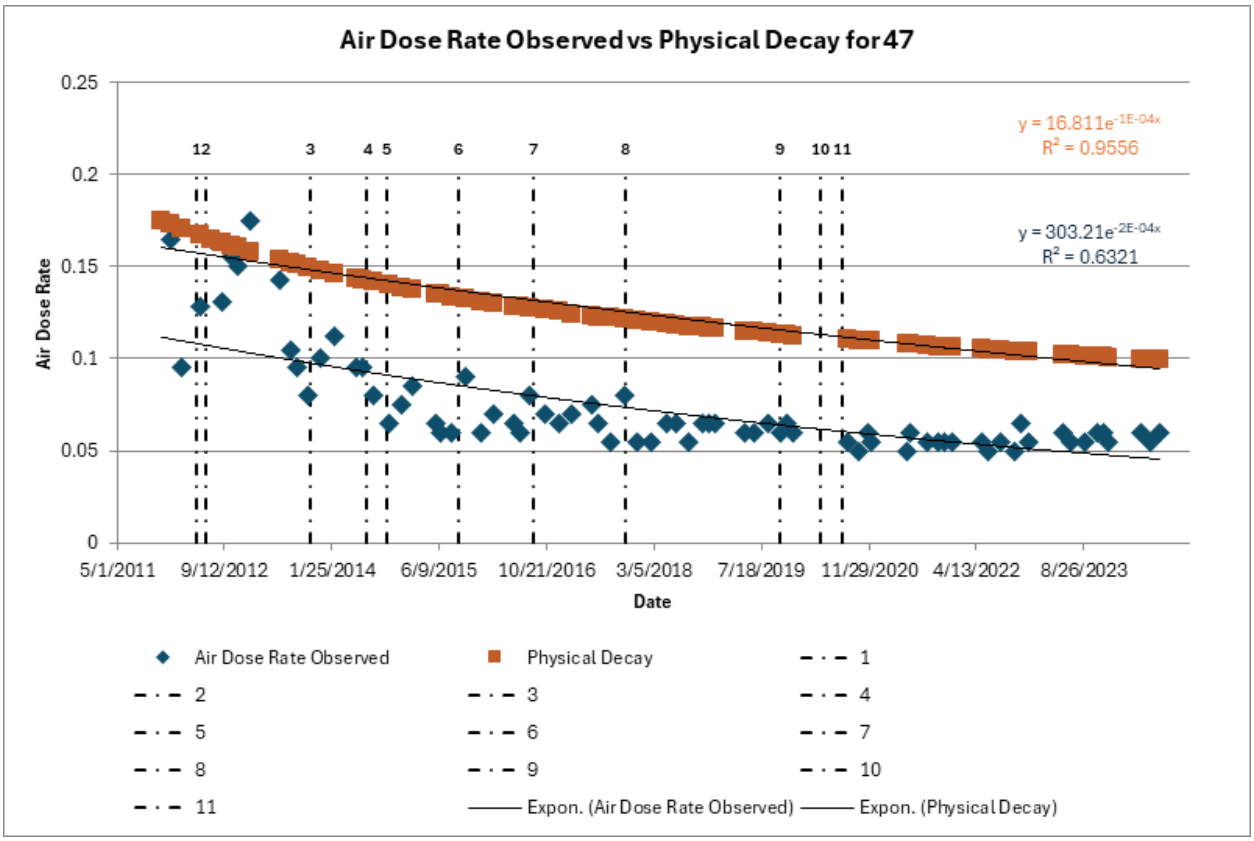

Air Dose Rate Observed vs Physical Decay for 42
y = 19.465e-1E-04x
R² = 0.9564
y = 200.66e-2E-04x
R² = 0.7225
Air Dose Rate
Date
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
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4 5
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7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

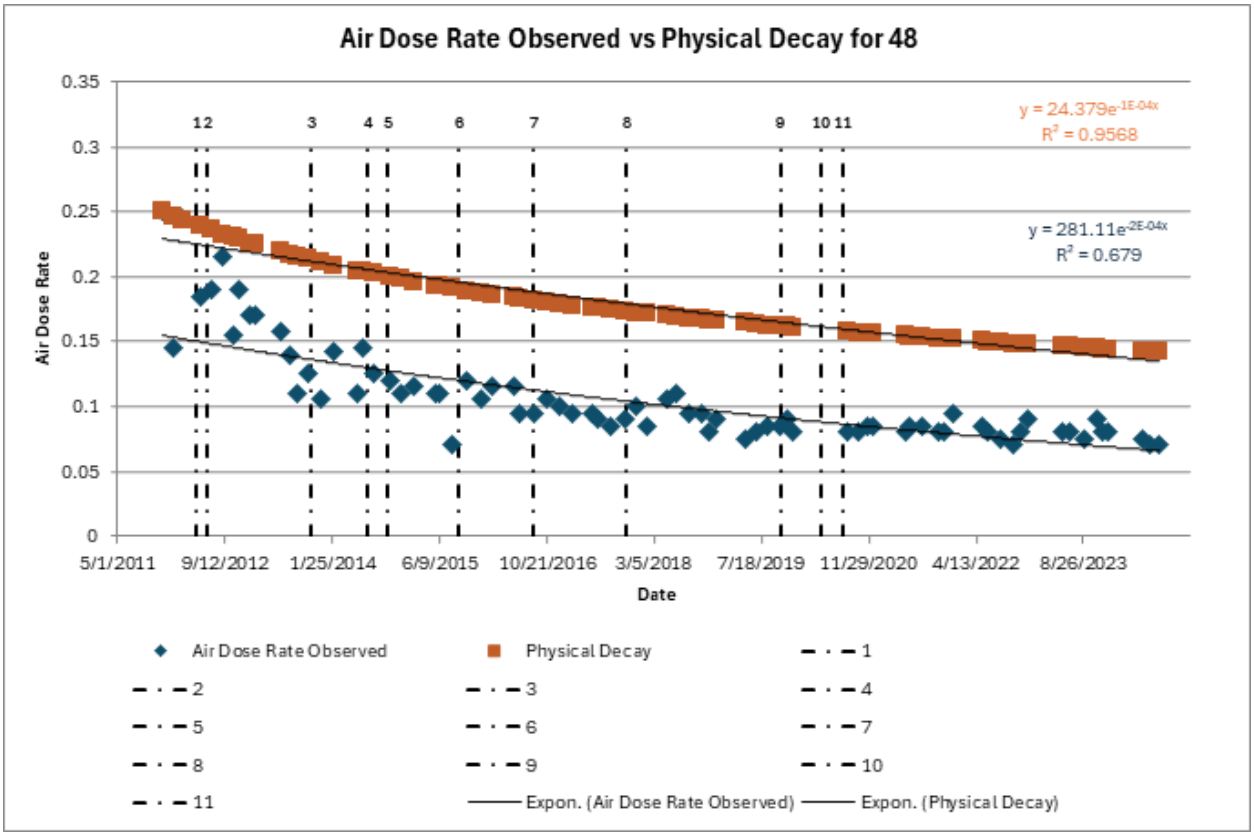

Air Dose Rate Observed vs Physical Decay for 43
y = 23.334e-1E-04x
R² = 0.9557
y = 486.3e-2E-04x
R² = 0.8114
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
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7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

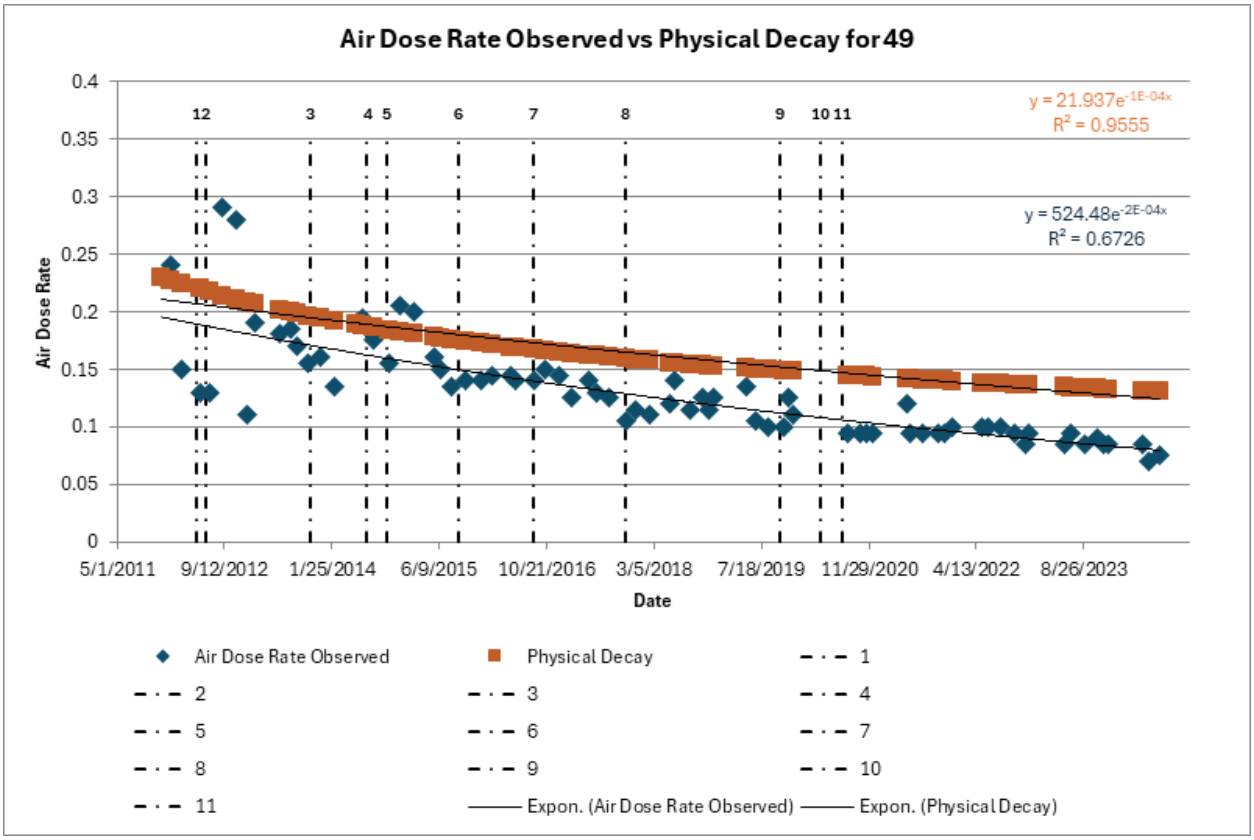

Air Dose Rate Observed vs Physical Decay for 44
y = 39.523e-1E-04x
R² = 0.9556
y = 78616e-3E-04x
R² = 0.9063
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

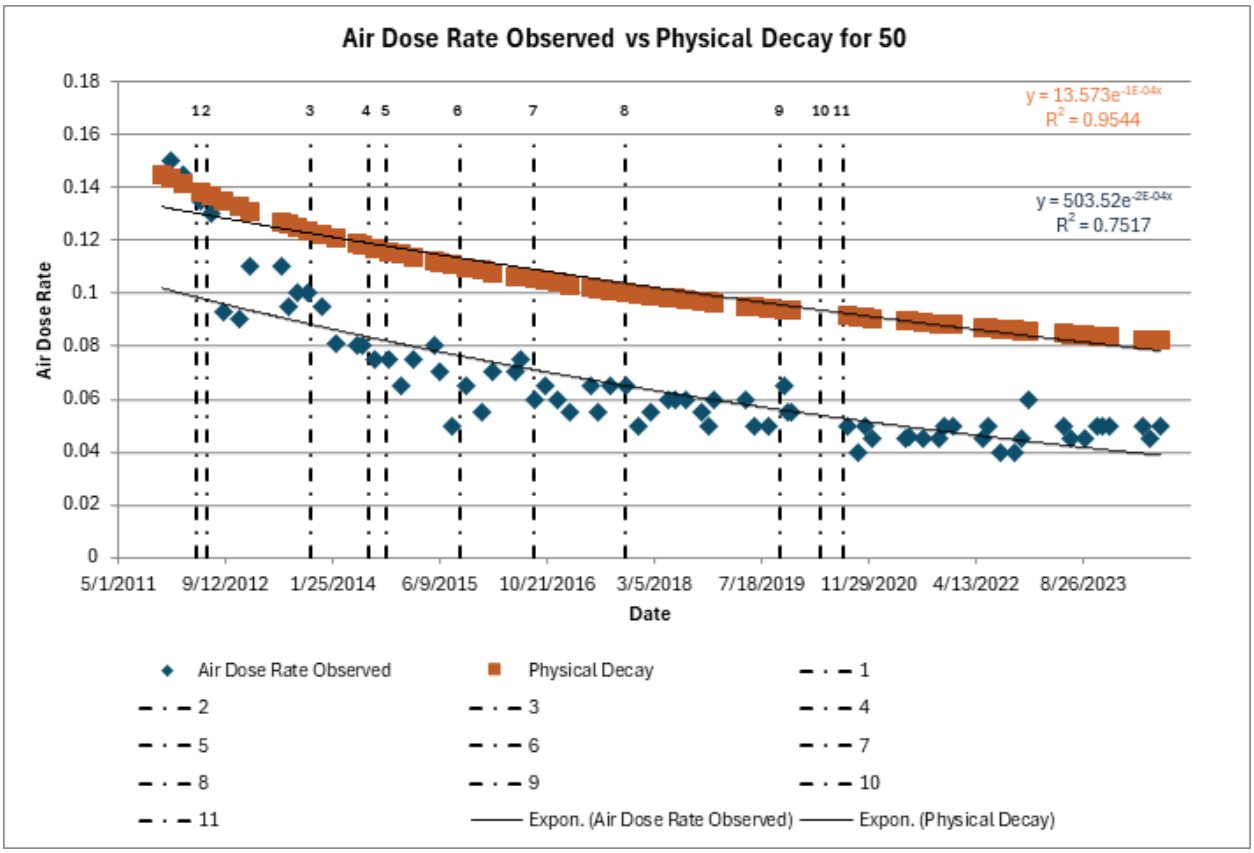

Air Dose Rate Observed vs Physical Decay for 45
y = 20.018e-1E-04x
R² = 0.9556
y = 445.81e-2E-04x
R² = 0.787
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

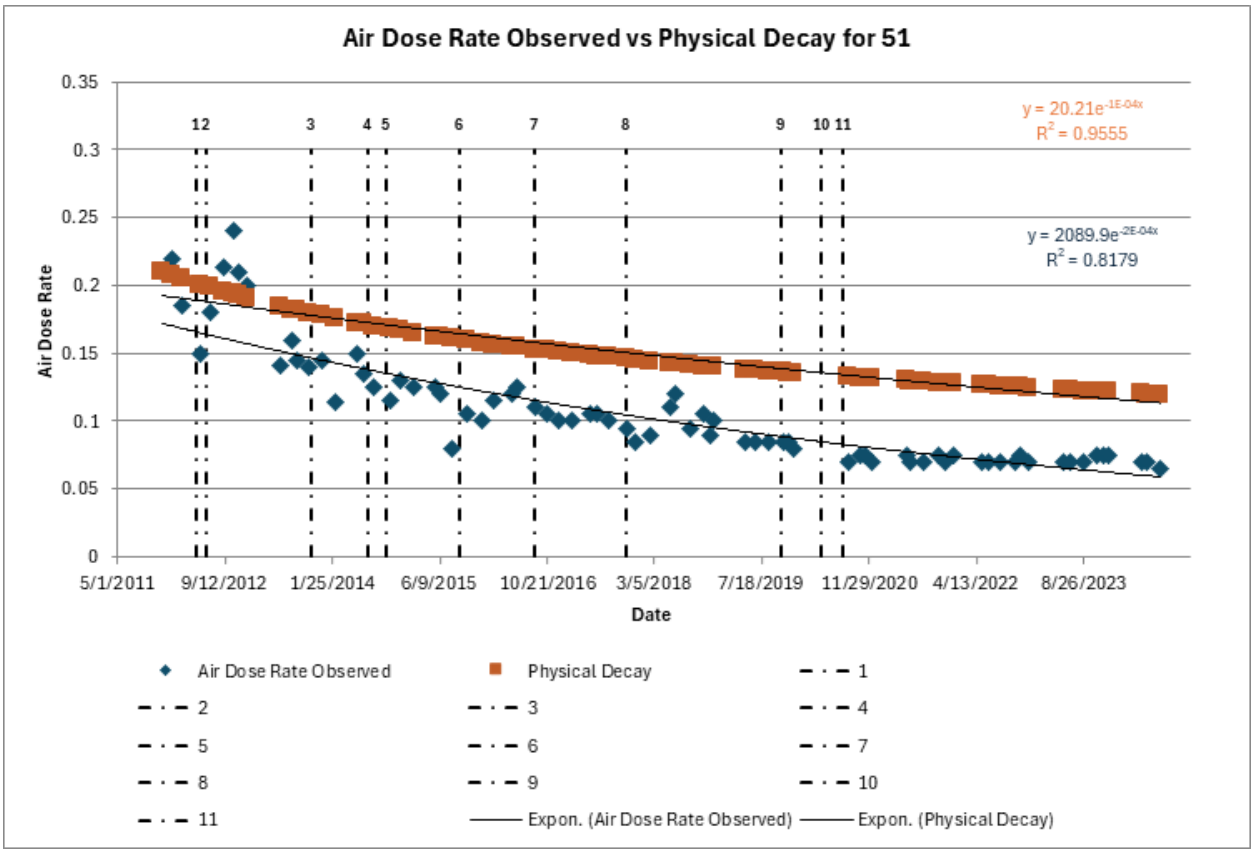

Air Dose Rate Observed vs Physical Decay for 46
y = 20.527e-1E-04x
R2 = 0.9555
y = 584.33e-2E-04x
R2 = 0.7782
Air Dose Rate
Date
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

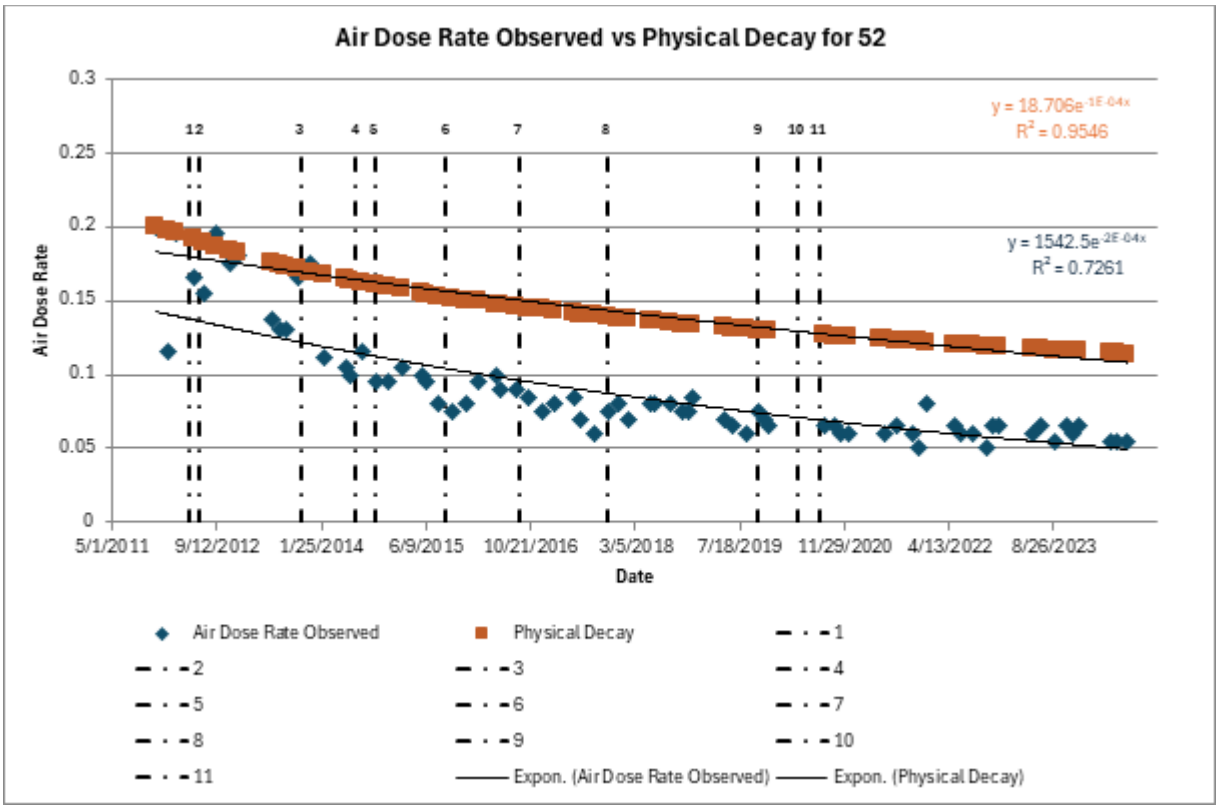

Air Dose Rate Observed vs Physical Decay for 47
y = 16.811e-1E-04x
R2 = 0.9556
y = 303.21e-2E-04x
R2 = 0.6321
Air Dose Rate
Date
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
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8
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10 11
Air Dose Rate Observed
Physical Decay
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Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

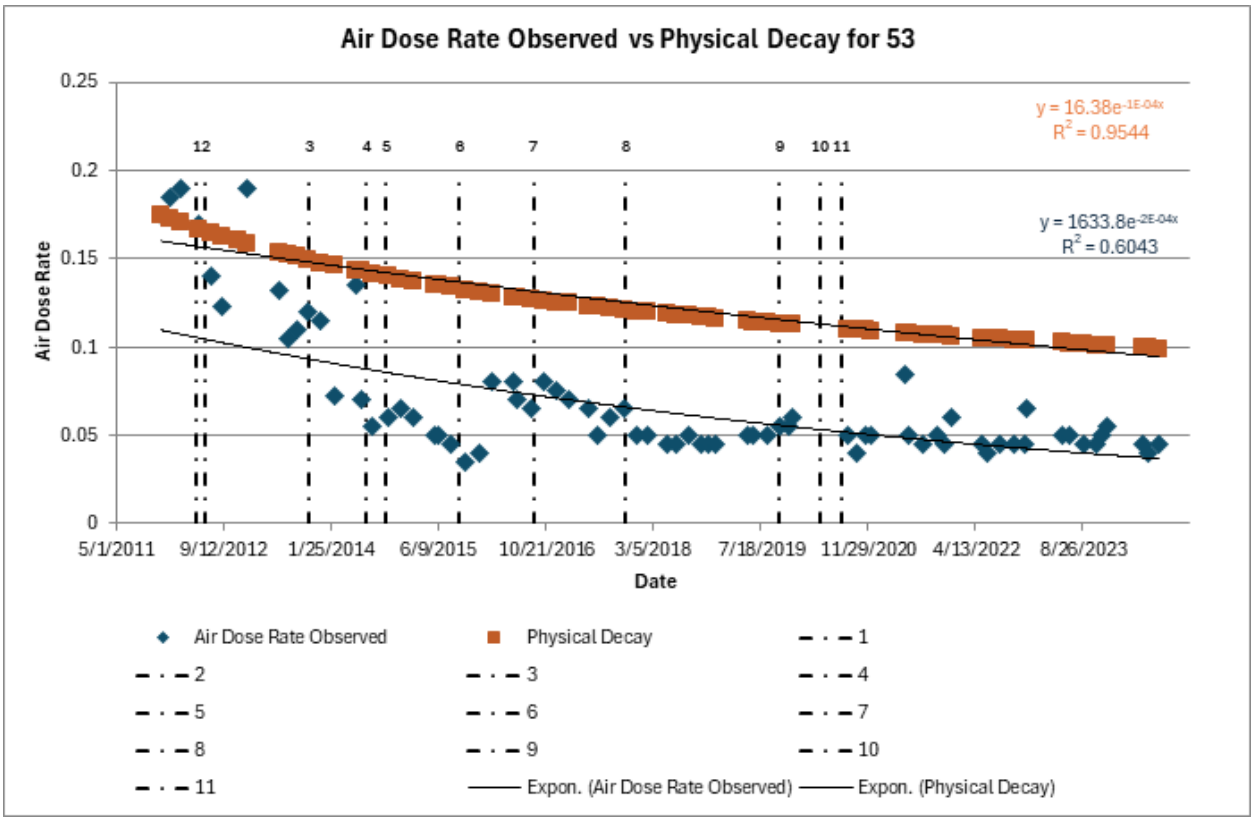

Air Dose Rate Observed vs Physical Decay for 48
y = 24.379e-1E-04x
R² = 0.9568
y = 281.11e-2E-04x
R² = 0.679
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
1
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

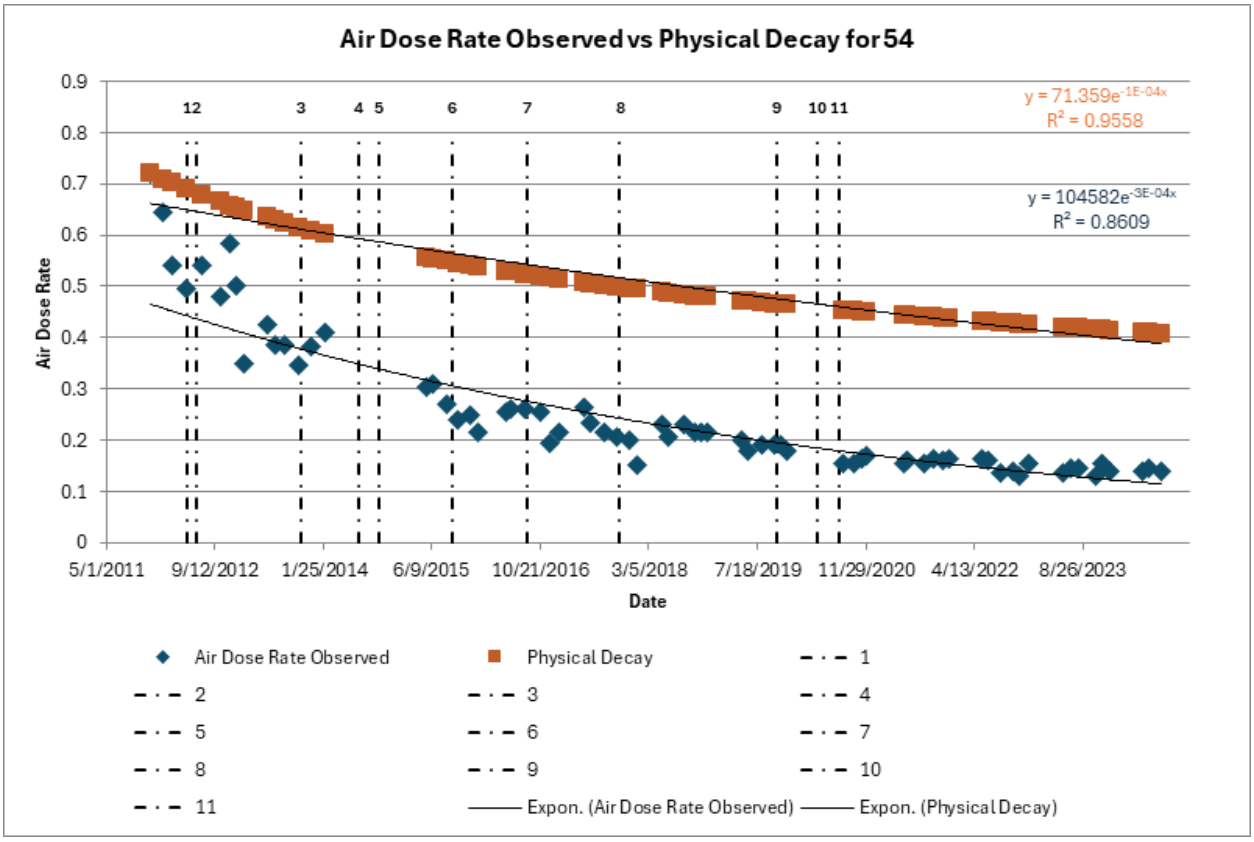

Air Dose Rate Observed vs Physical Decay for 49
y = 21.937e-1E-04x
R² = 0.9555
y = 524.48e-2E-04x
R² = 0.6726
Air Dose Rate
Date
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

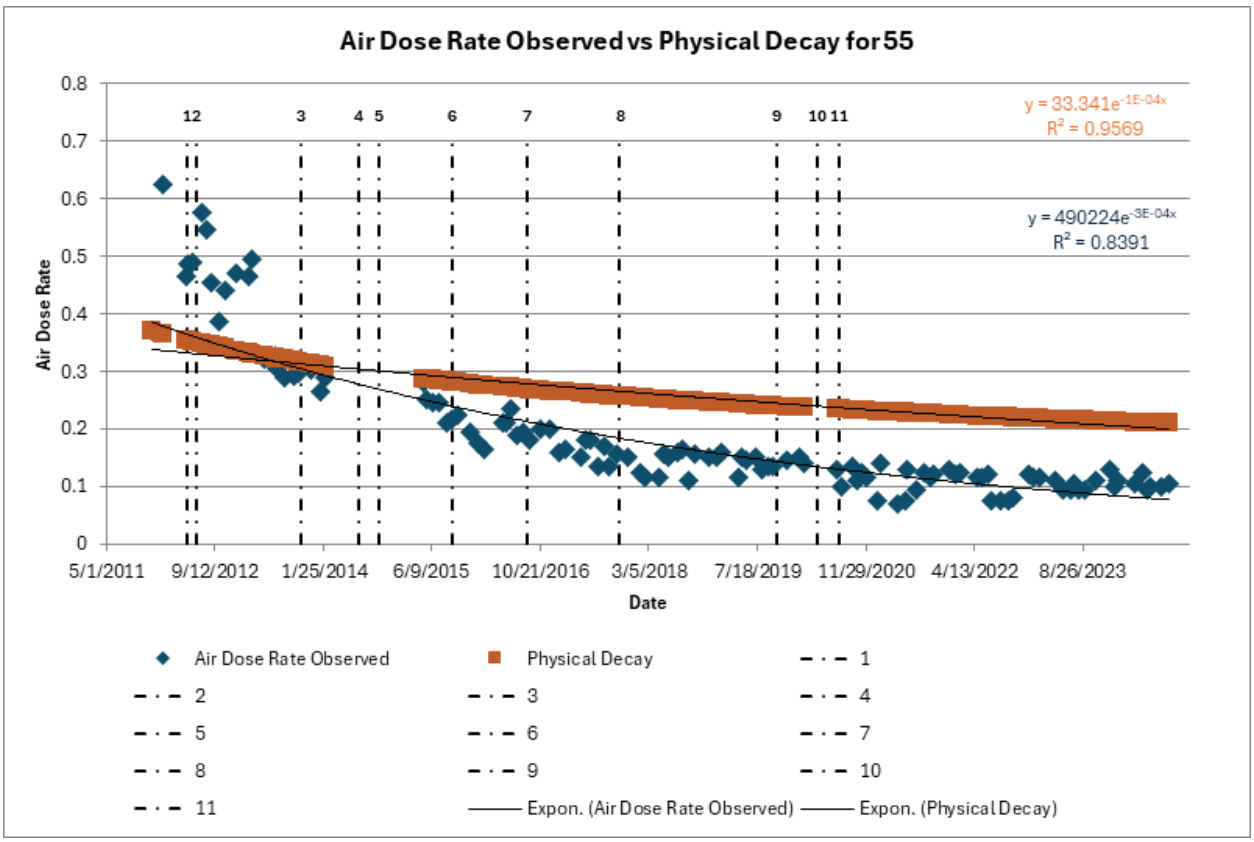

Air Dose Rate Observed vs Physical Decay for 50
y = 13.573e-1E-04x
R2 = 0.9544
y = 503.52e-2E-04x
R2 = 0.7517
Air Dose Rate
Date
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

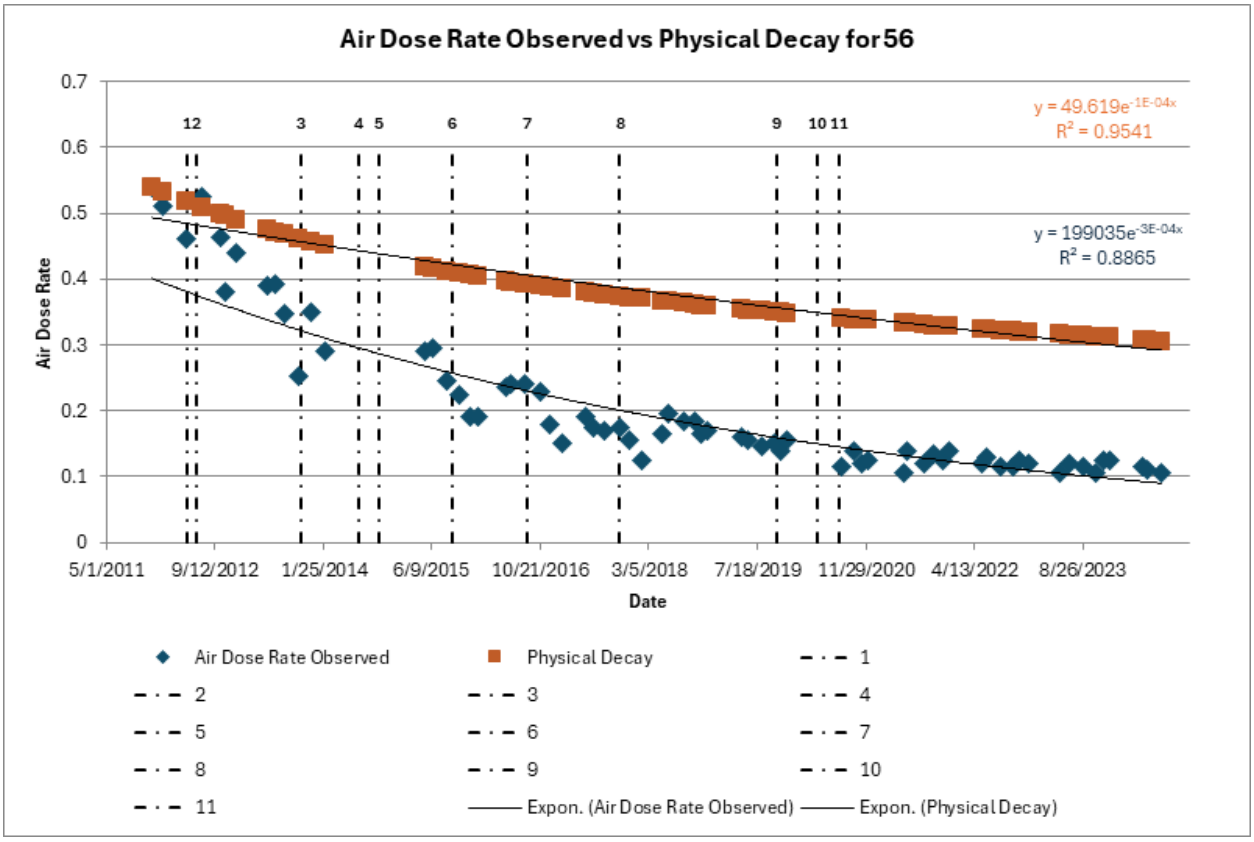

Air Dose Rate Observed vs Physical Decay for 51
y = 20.21e-1E-04x
R2 = 0.9555
y = 2089.9e-2E-04x
R2 = 0.8179
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
1
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

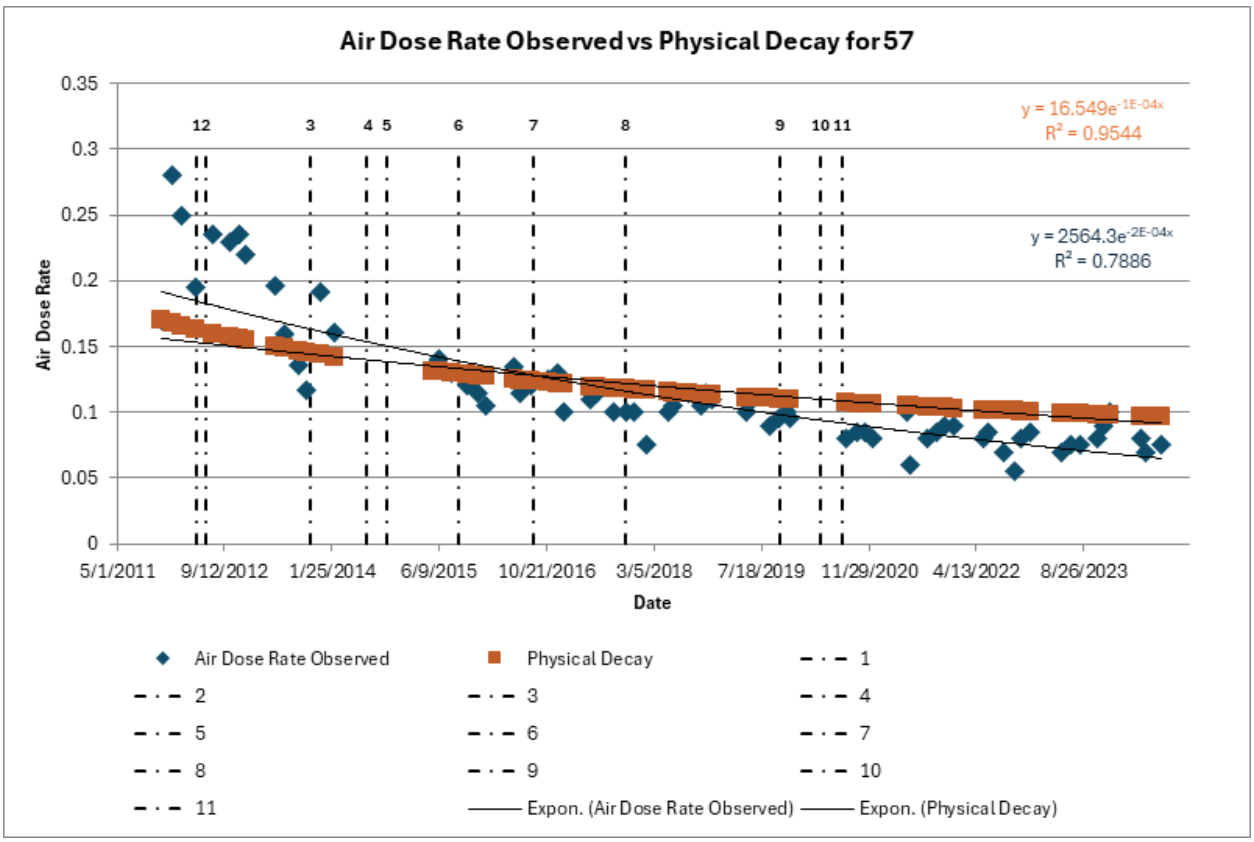

Air Dose Rate Observed vs Physical Decay for 52
y = 18.706e-1E-04x
R² = 0.9546
y = 1542.5e-2E-04x
R² = 0.7261
Air Dose Rate
Date
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

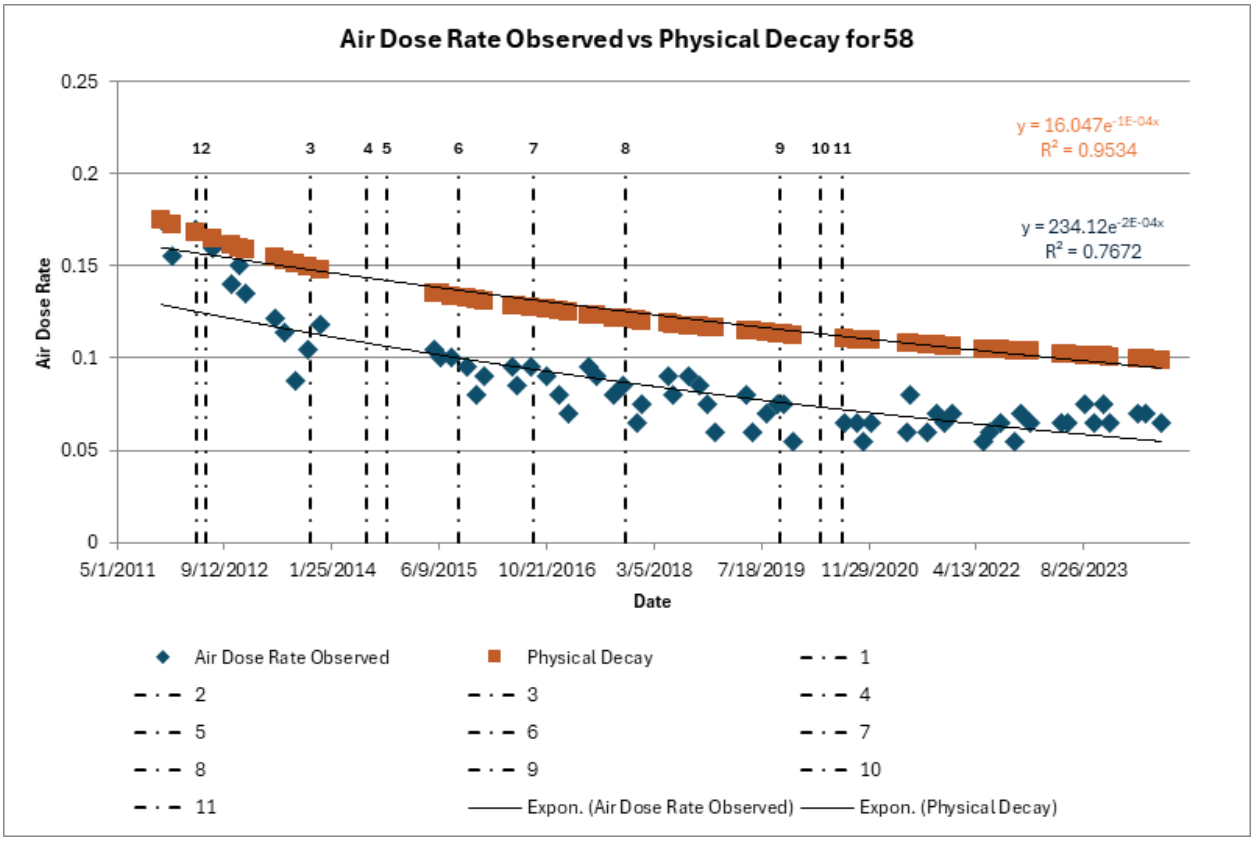

Air Dose Rate Observed vs Physical Decay for 53
y = 16.38e-1E-04x
R² = 0.9544
y = 1633.8e-2E-04x
R² = 0.6043
Air Dose Rate
Date
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
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4
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7
8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

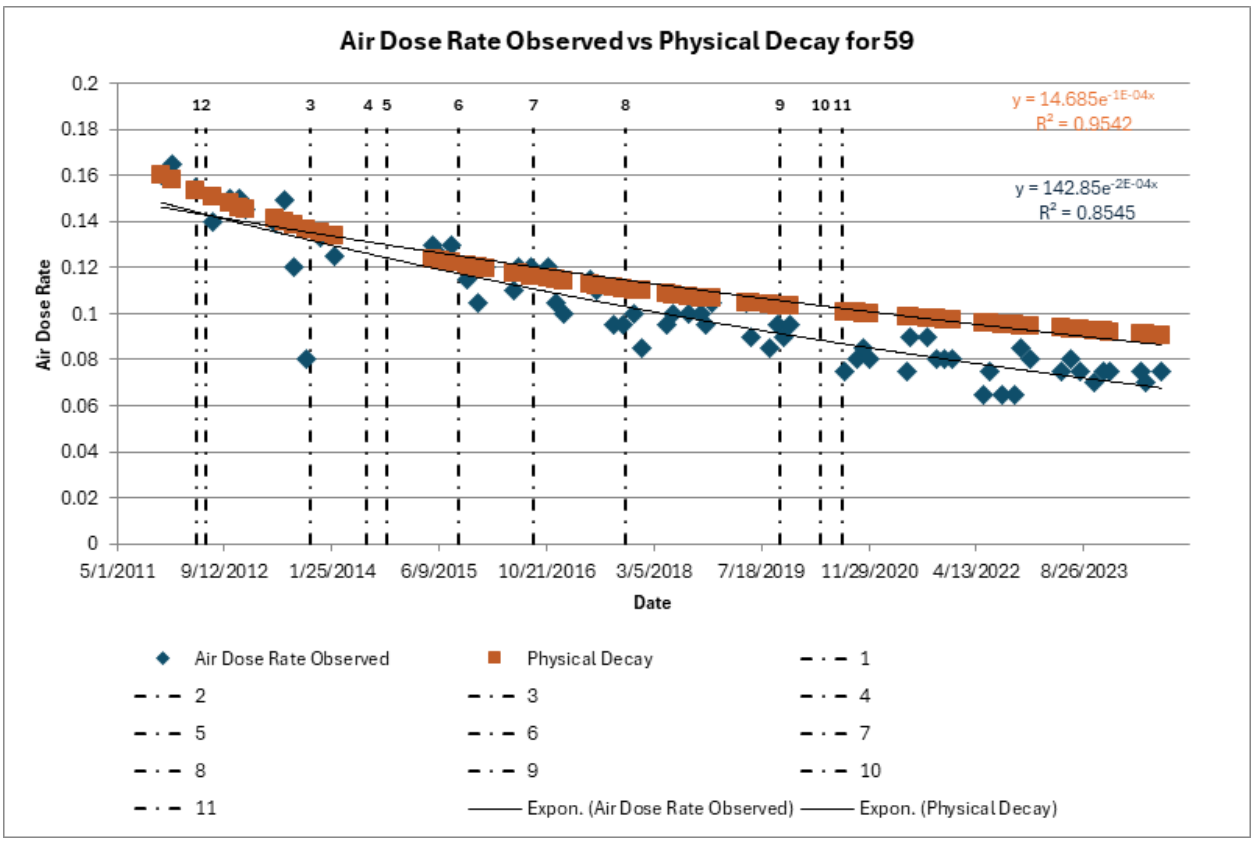

Air Dose Rate Observed vs Physical Decay for 54
y = 71.359e-1E-04x
R² = 0.9558
y = 104582e-3E-04x
R² = 0.8609
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

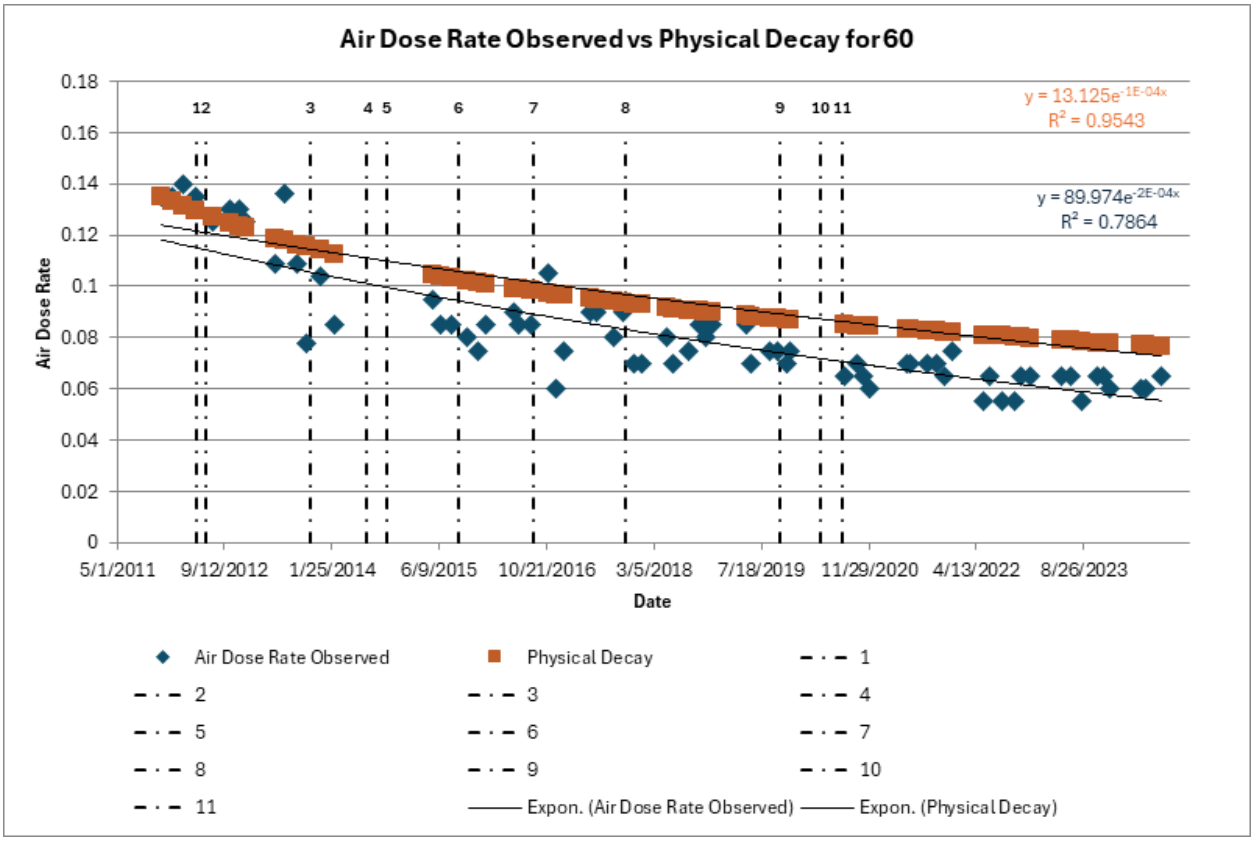

Air Dose Rate Observed vs Physical Decay for 55
y = 33.341e-1E-04x
R² = 0.9569
y = 490224e-3E-04x
R² = 0.8391
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
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4
5
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8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

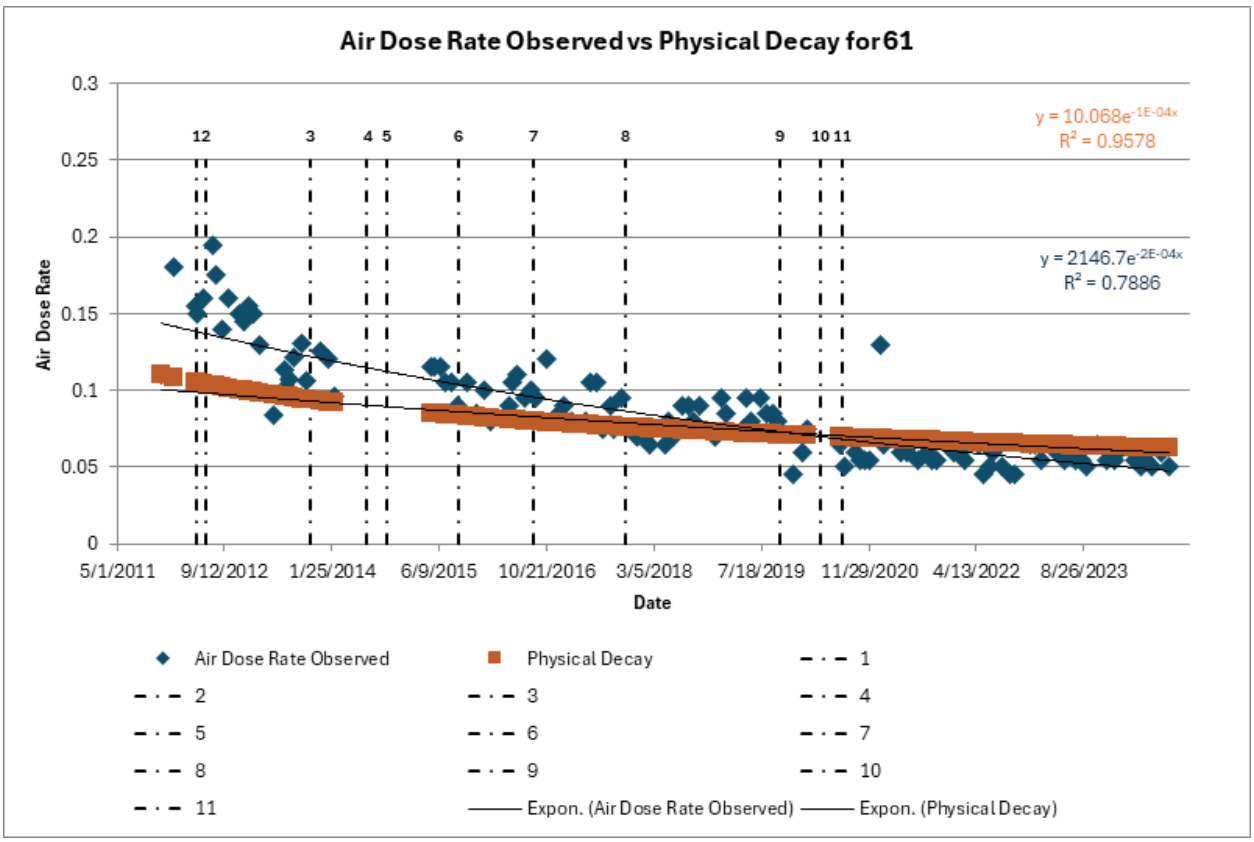

Air Dose Rate Observed vs Physical Decay for 56
y = 49.619e-1E-04x
R² = 0.9541
y = 199035e-3E-04x
R² = 0.8865
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
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8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

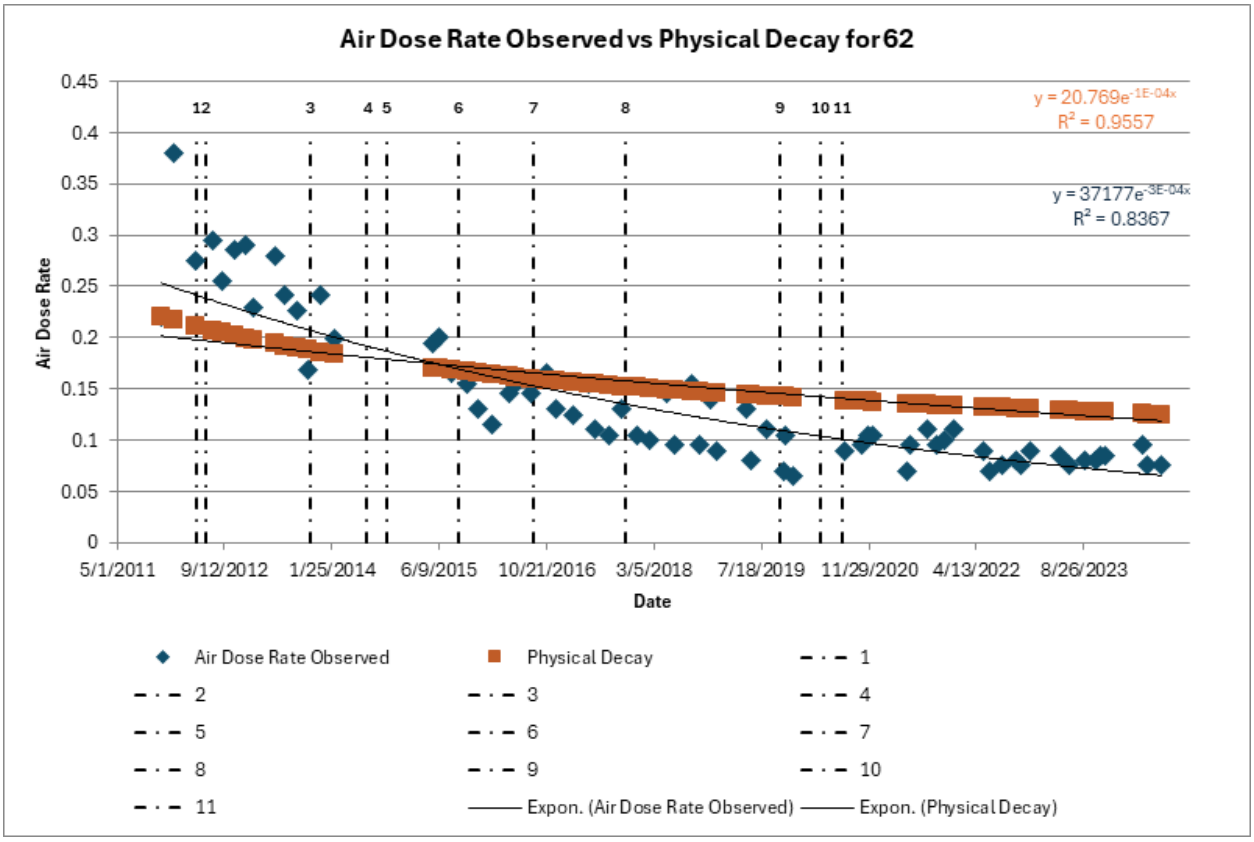

Air Dose Rate Observed vs Physical Decay for 57
y = 16.549e-1E-04x
R² = 0.9544
y = 2564.3e-2E-04x
R² = 0.7886
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
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8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

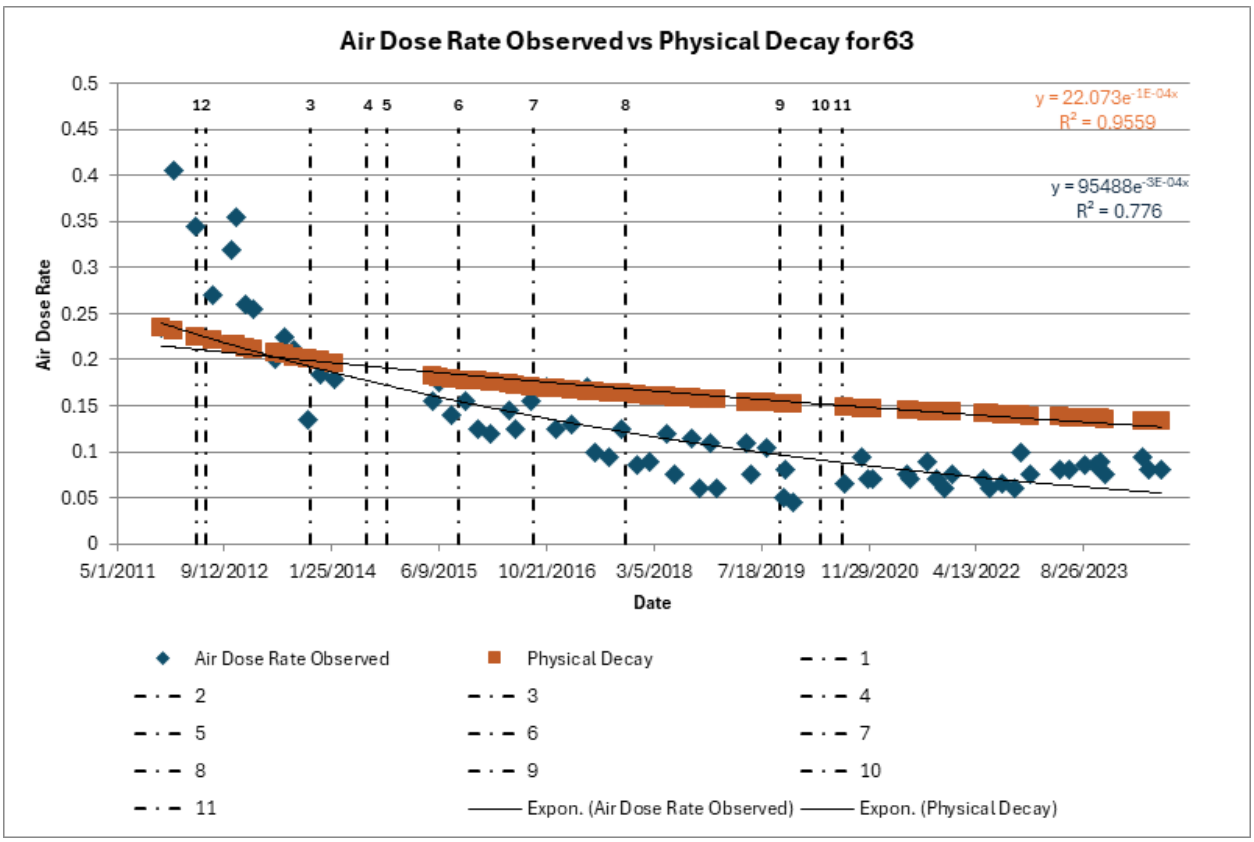

Air Dose Rate Observed vs Physical Decay for 58
y = 16.047e-1E-04x
R² = 0.9534
y = 234.12e-2E-04x
R² = 0.7672
Air Dose Rate
Date
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
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5
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9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

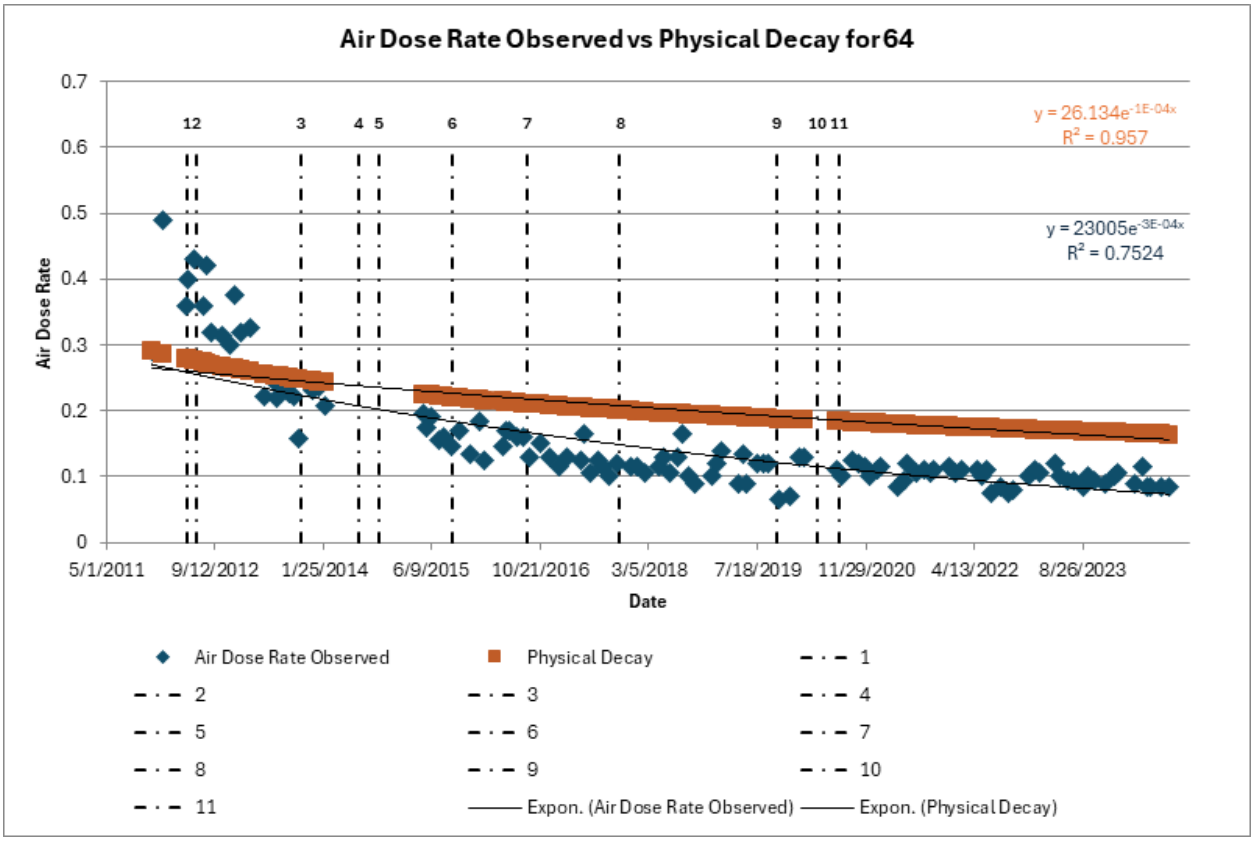

Air Dose Rate Observed vs Physical Decay for 59
y = 14.685e-1E-04x
R² = 0.9542
y = 142.85e-2E-04x
R² = 0.8545
Air Dose Rate
Date
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

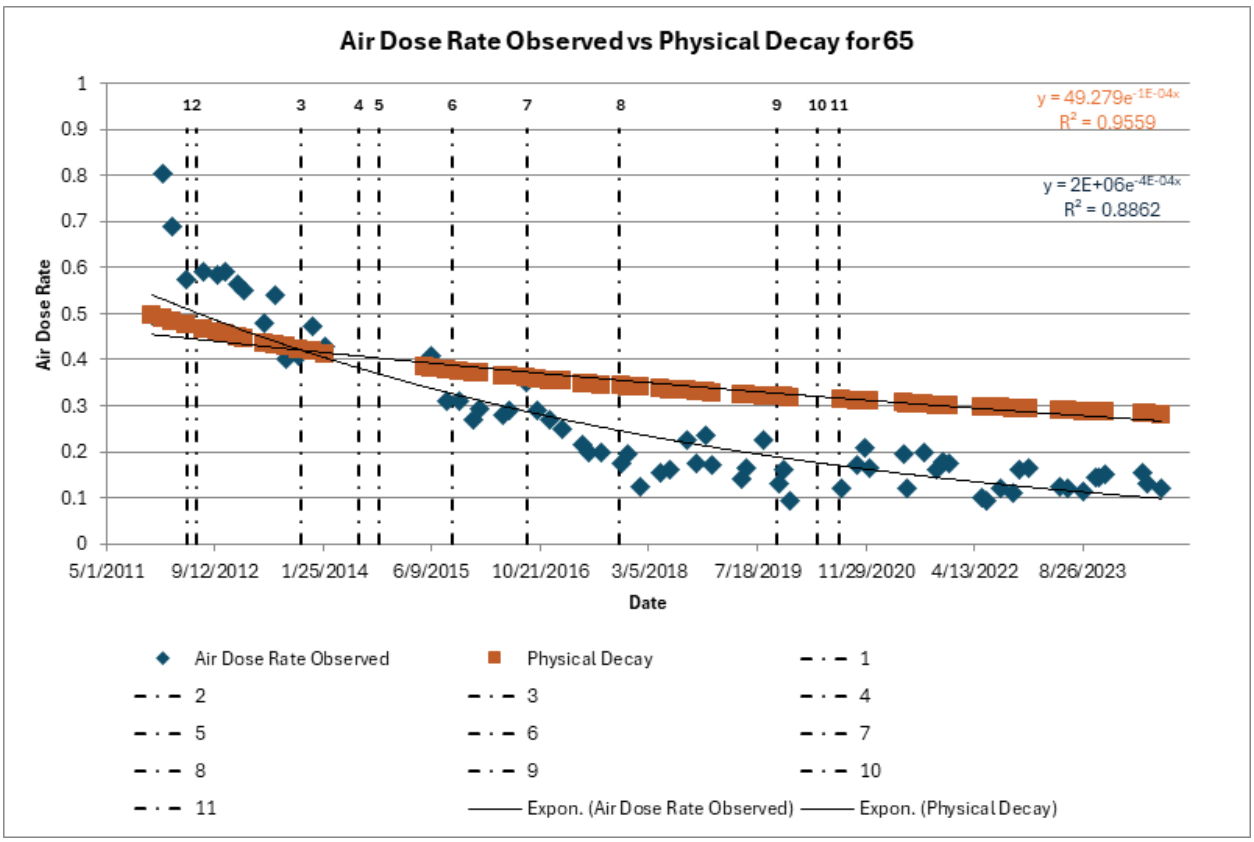

Air Dose Rate Observed vs Physical Decay for 60
y = 13.125e-1E-04x
R² = 0.9543
y = 89.974e-2E-04x
R² = 0.7864
Air Dose Rate
Date
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

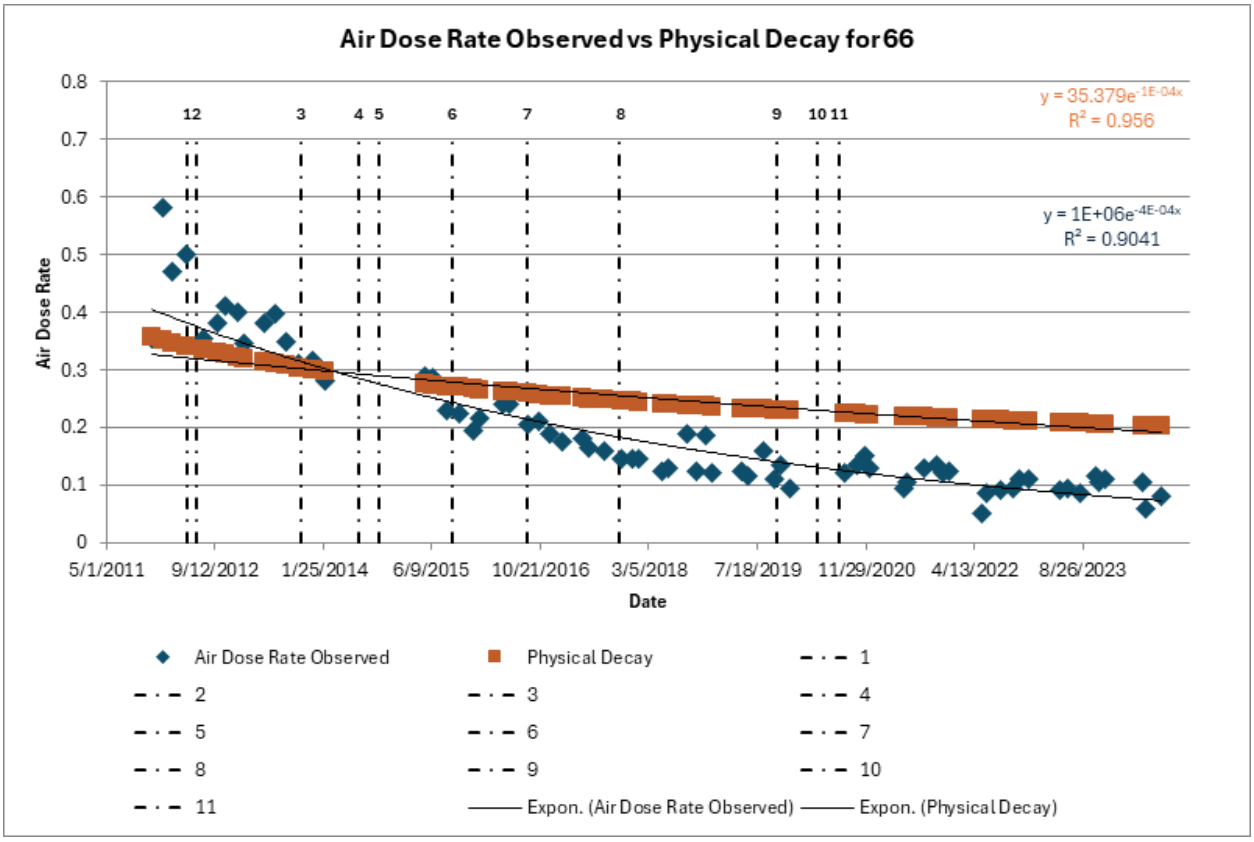

Air Dose Rate Observed vs Physical Decay for 61
y = 10.068e-1E-04x
R² = 0.9578
y = 2146.7e-2E-04x
R² = 0.7886
Air Dose Rate
Date
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
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7
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9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

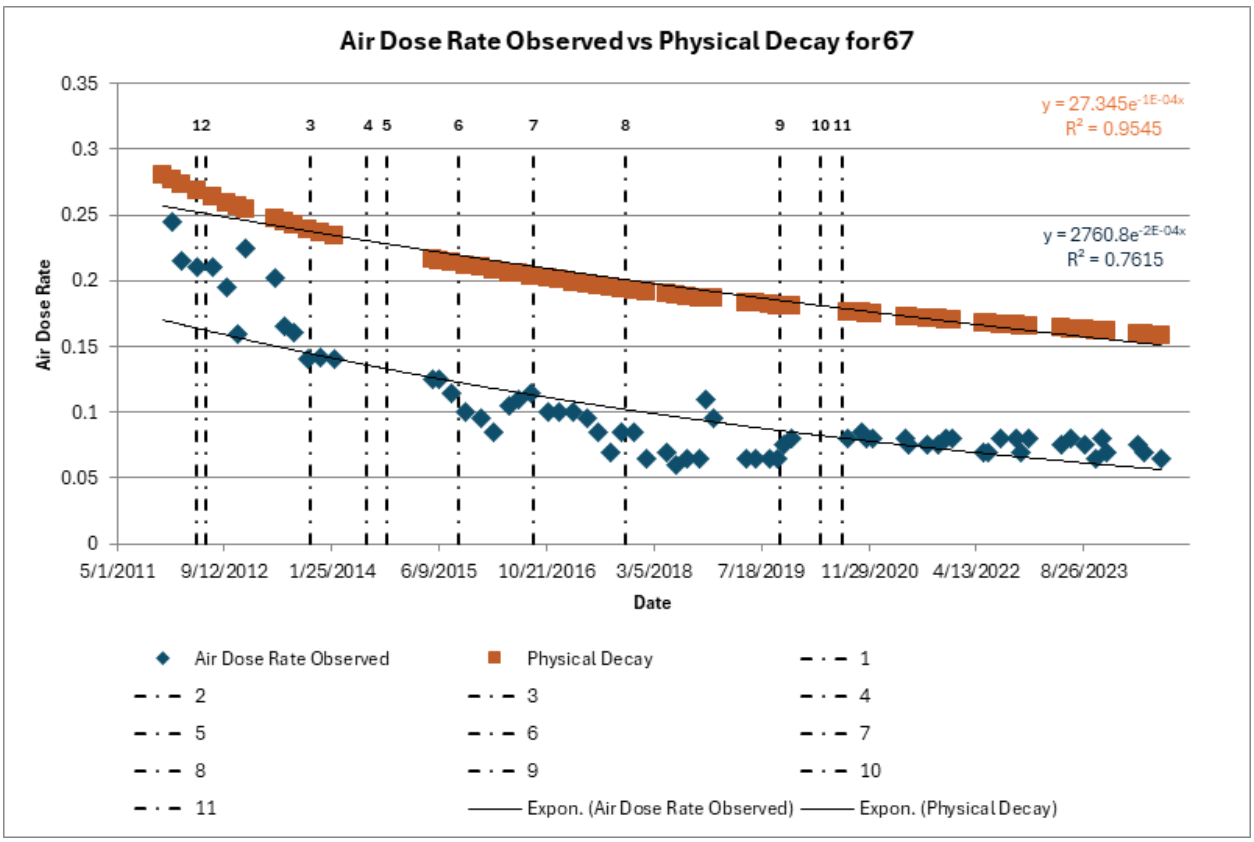

Air Dose Rate Observed vs Physical Decay for 62
y = 20.769e-1E-04x
R² = 0.9557
y = 37177e-3E-04x
R² = 0.8367
Air Dose Rate
Date
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
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8
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10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

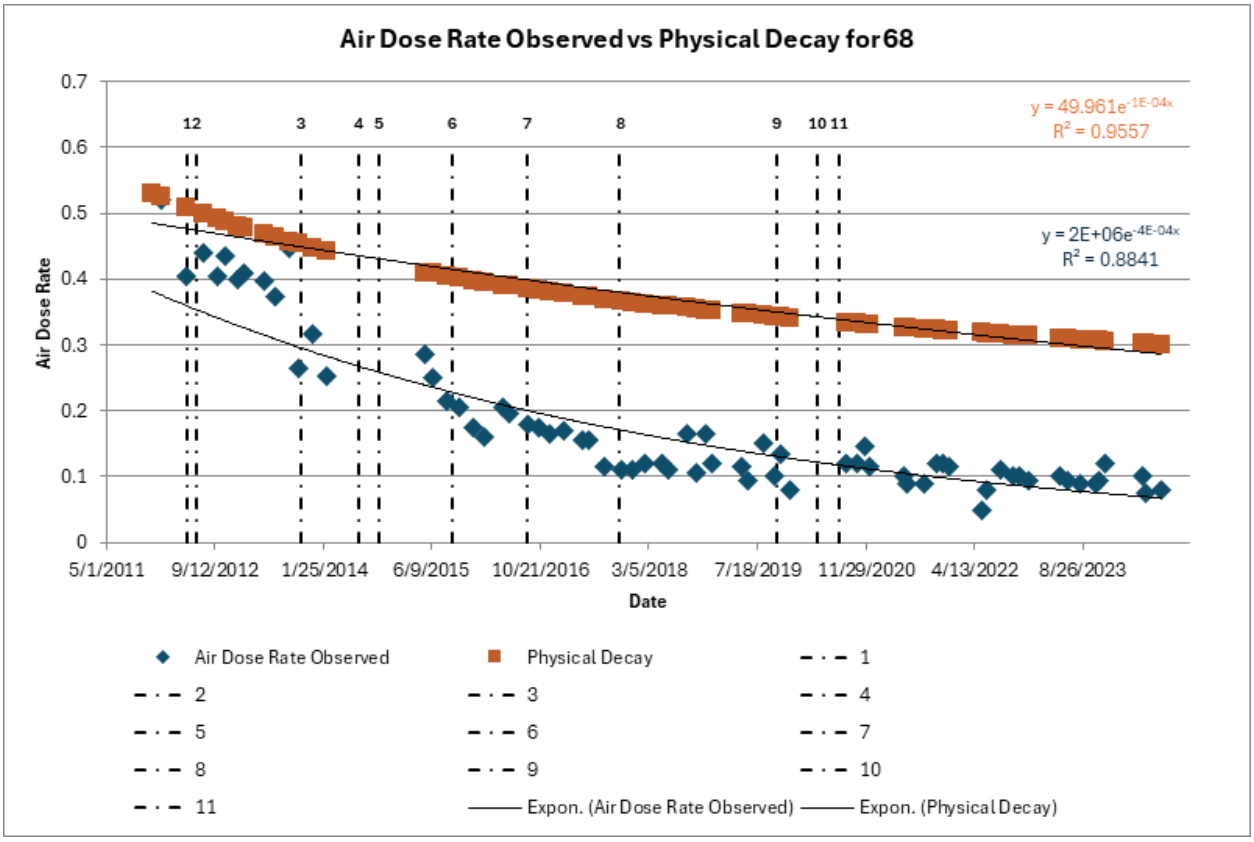

Air Dose Rate Observed vs Physical Decay for 63
y = 22.073e-1E-04x
R² = 0.9559
y = 95488e-3E-04x
R² = 0.776
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12
3
4 5
6
7
8
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10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

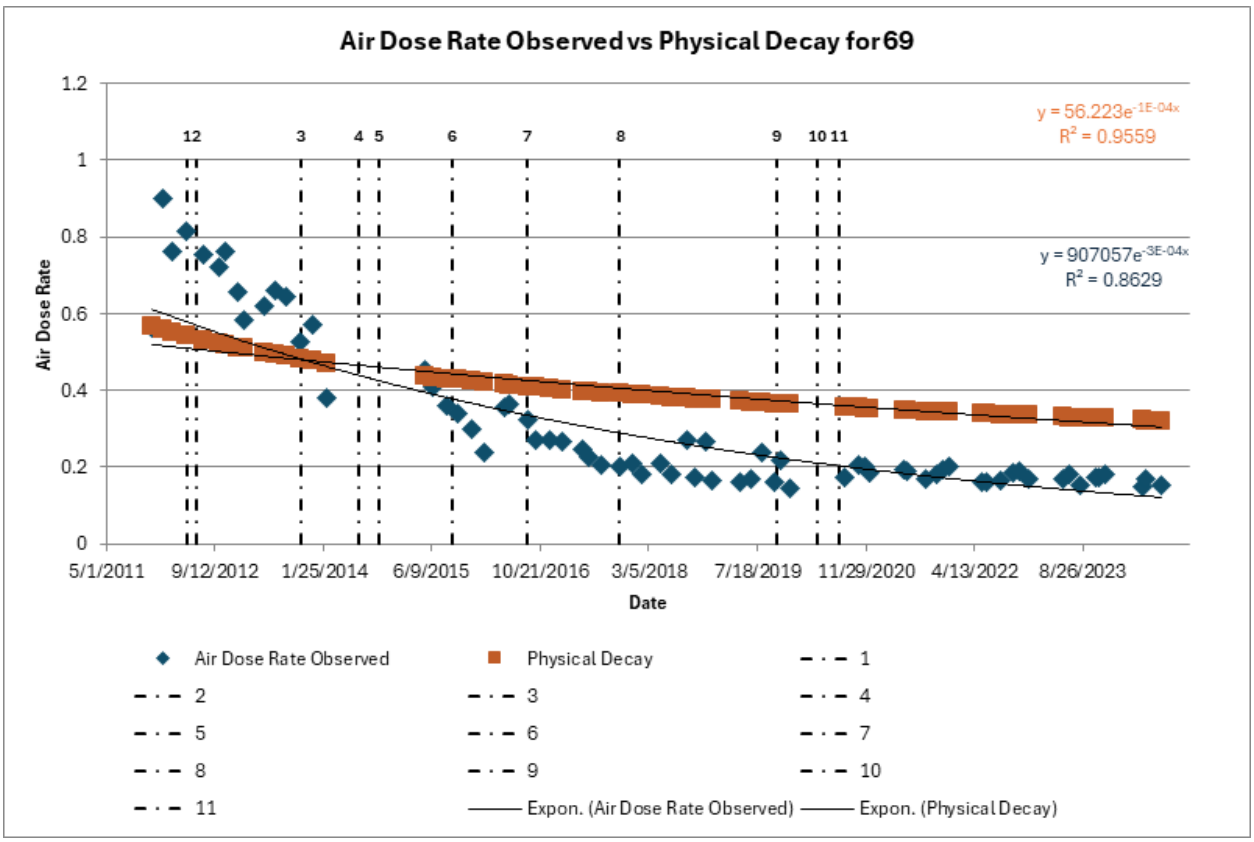

Air Dose Rate Observed vs Physical Decay for 64
y = 26.134e-1E-04x
R² = 0.957
y = 23005e-3E-04x
R² = 0.7524
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

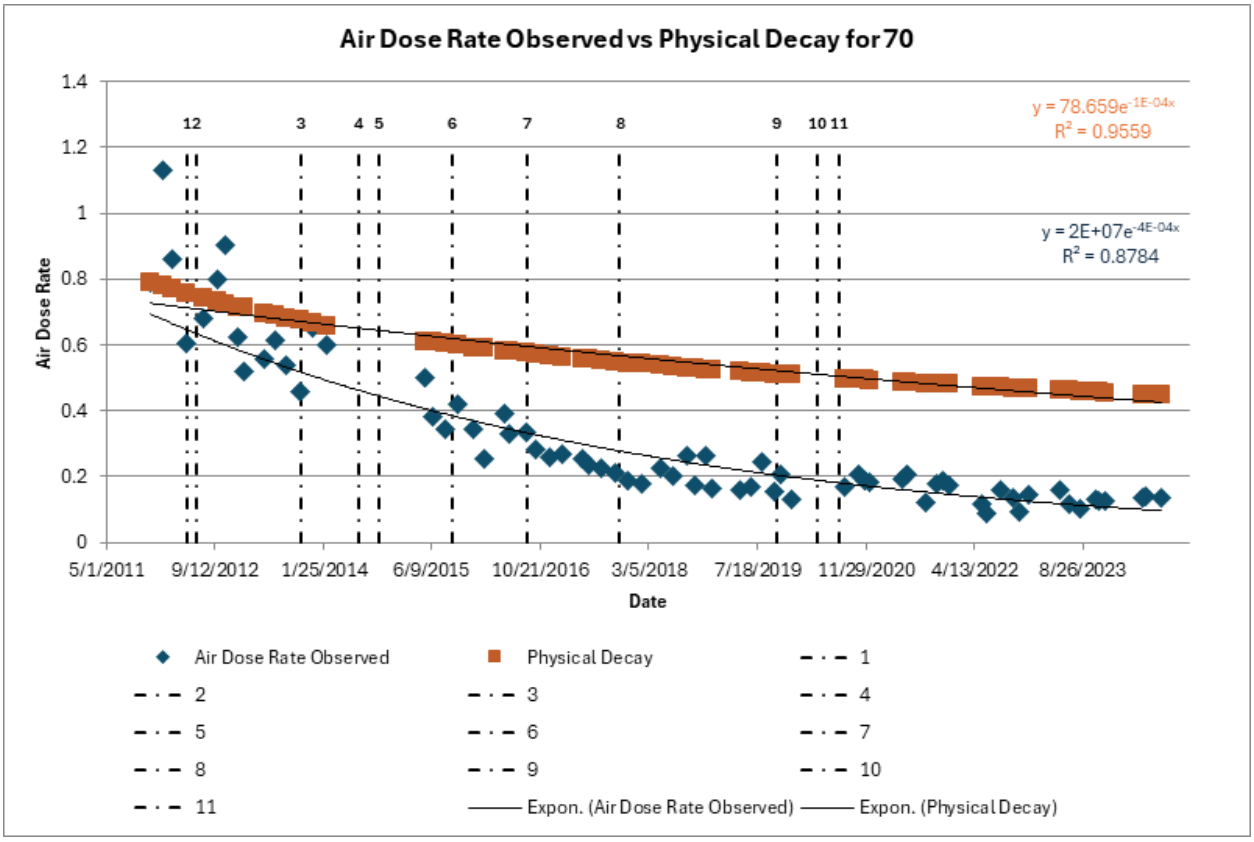

Air Dose Rate Observed vs Physical Decay for 65
y = 49.279e-1E-04x
R² = 0.9559
y = 2E+06e-4E-04x
R² = 0.8862
Air Dose Rate
Date
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

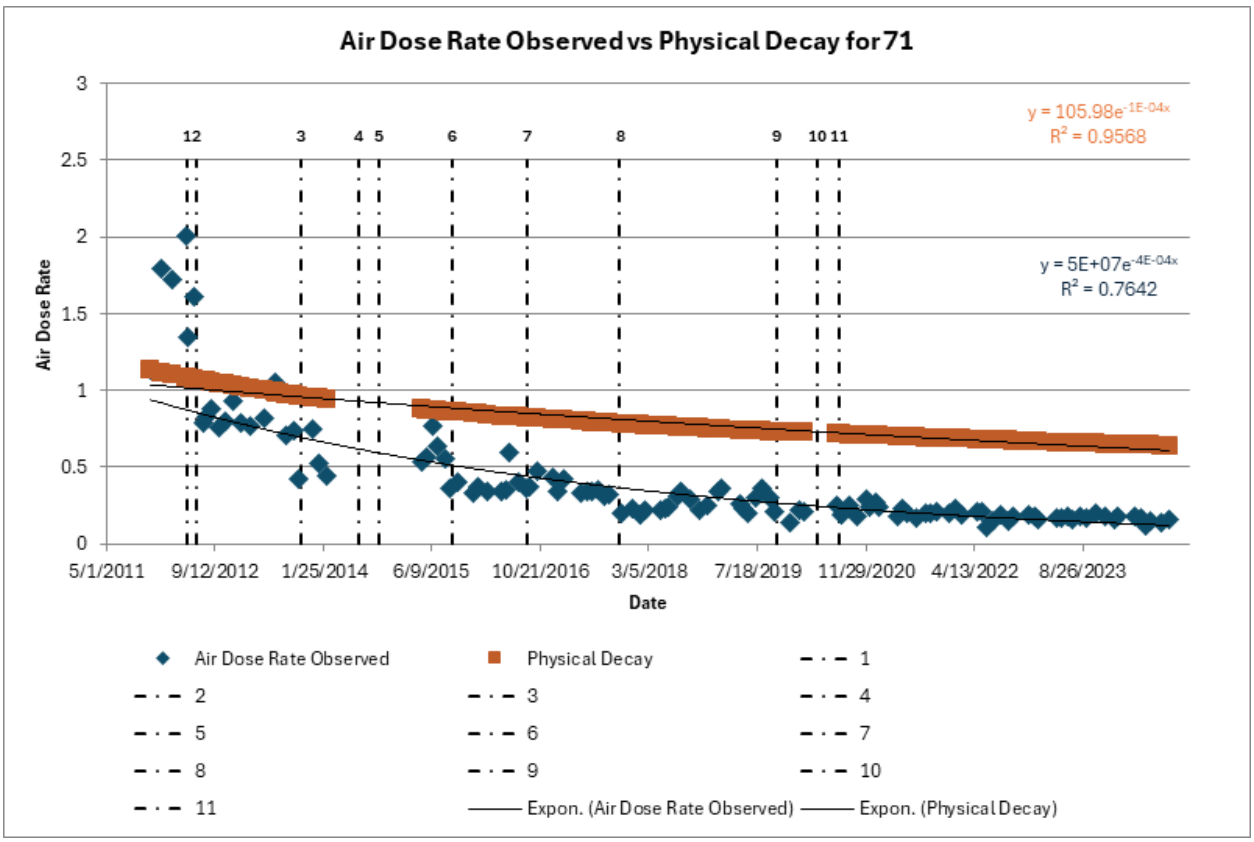

Air Dose Rate Observed vs Physical Decay for 66
y = 35.379e-1E-04x
R² = 0.956
y = 1E+06e-4E-04x
R² = 0.9041
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
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4
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

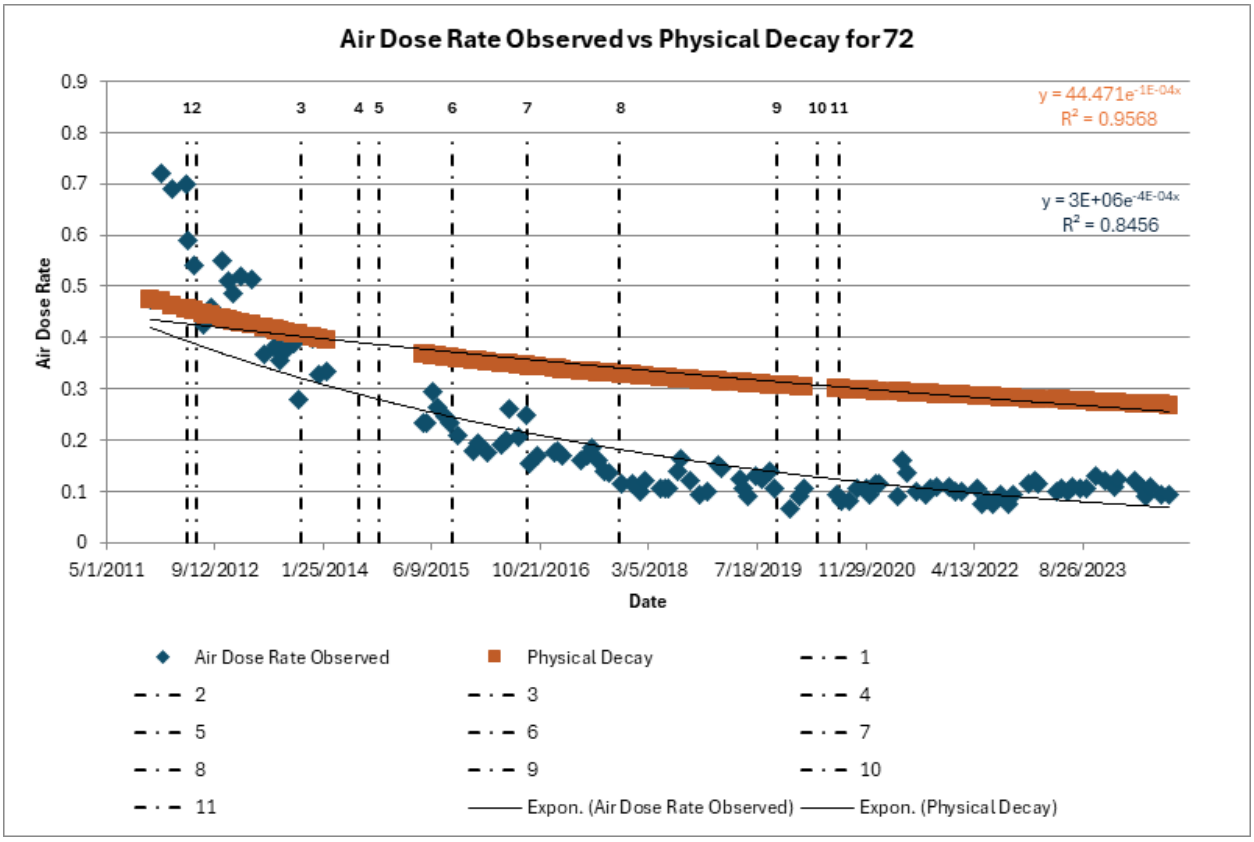

Air Dose Rate Observed vs Physical Decay for 67
y = 27.345e-1E-04x
R² = 0.9545
y = 2760.8e-2E-04x
R² = 0.7615
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Date
Air Dose Rate Observed
Physical Decay
1
2
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4
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6
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

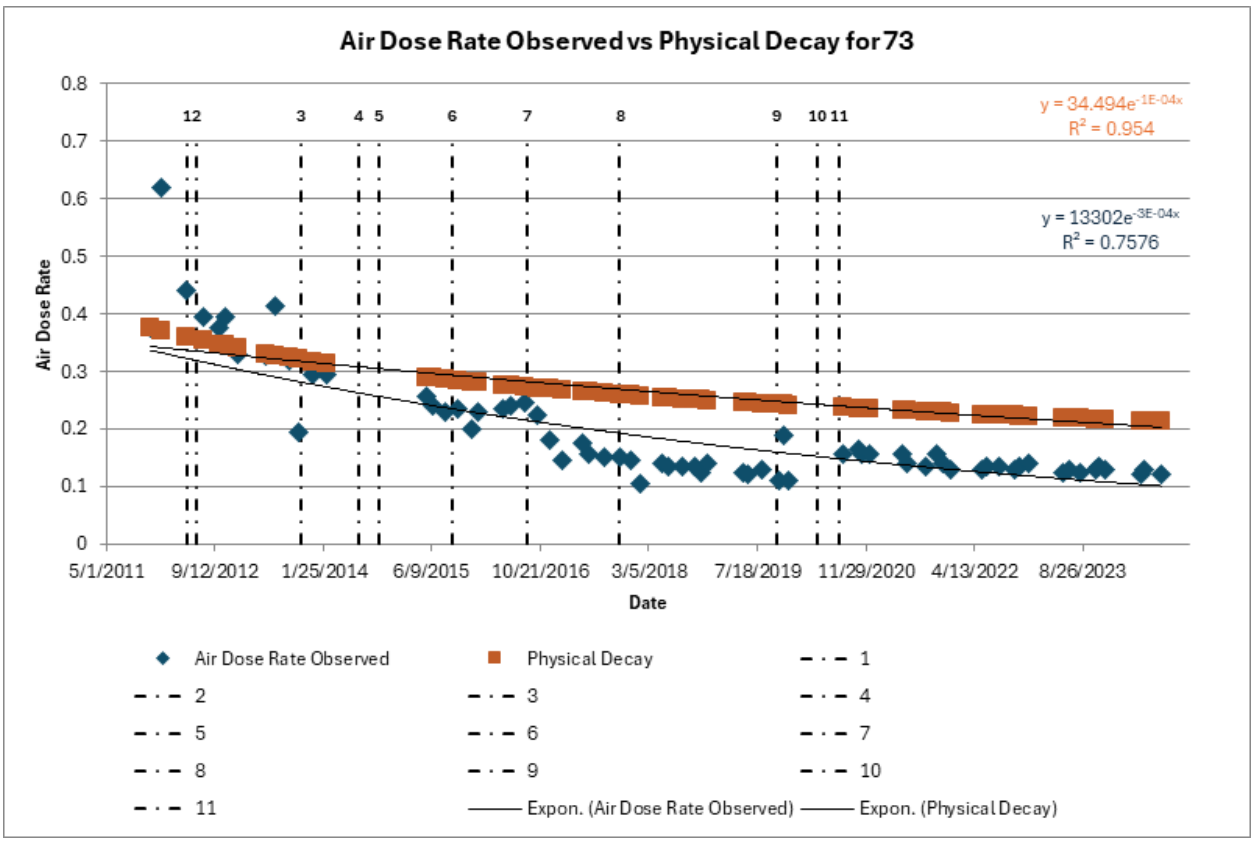

Air Dose Rate Observed vs Physical Decay for 68
y = 49.961e-1E-04x
R² = 0.9557
y = 2E+06e-4E-04x
R² = 0.8841
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
1
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3
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5
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7
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

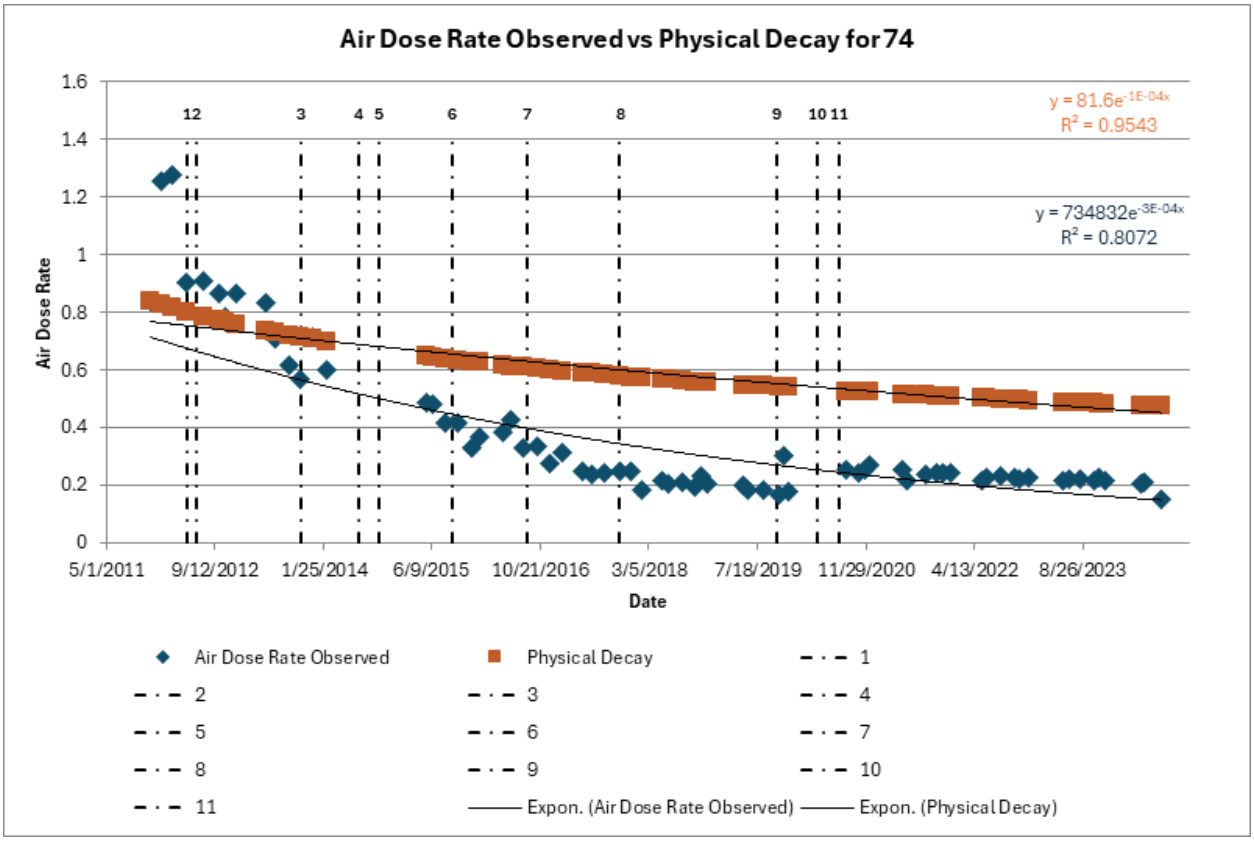

Air Dose Rate Observed vs Physical Decay for 69
y = 56.223e-1E-04x
R² = 0.9559
y = 907057e-3E-04x
R² = 0.8629
Air Dose Rate
Date
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

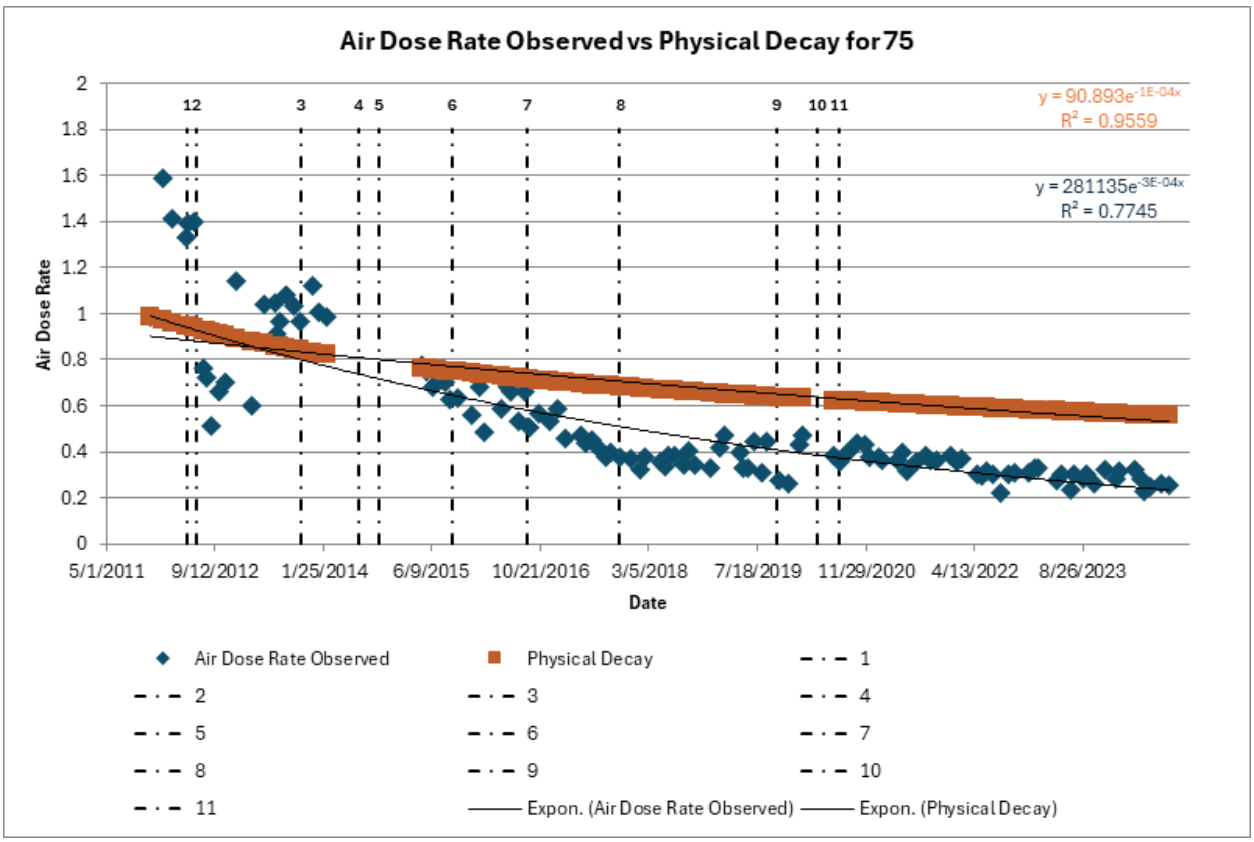

Air Dose Rate Observed vs Physical Decay for 70
y = 78.659e-1E-04x
R² = 0.9559
y = 2E+07e-4E-04x
R² = 0.8784
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

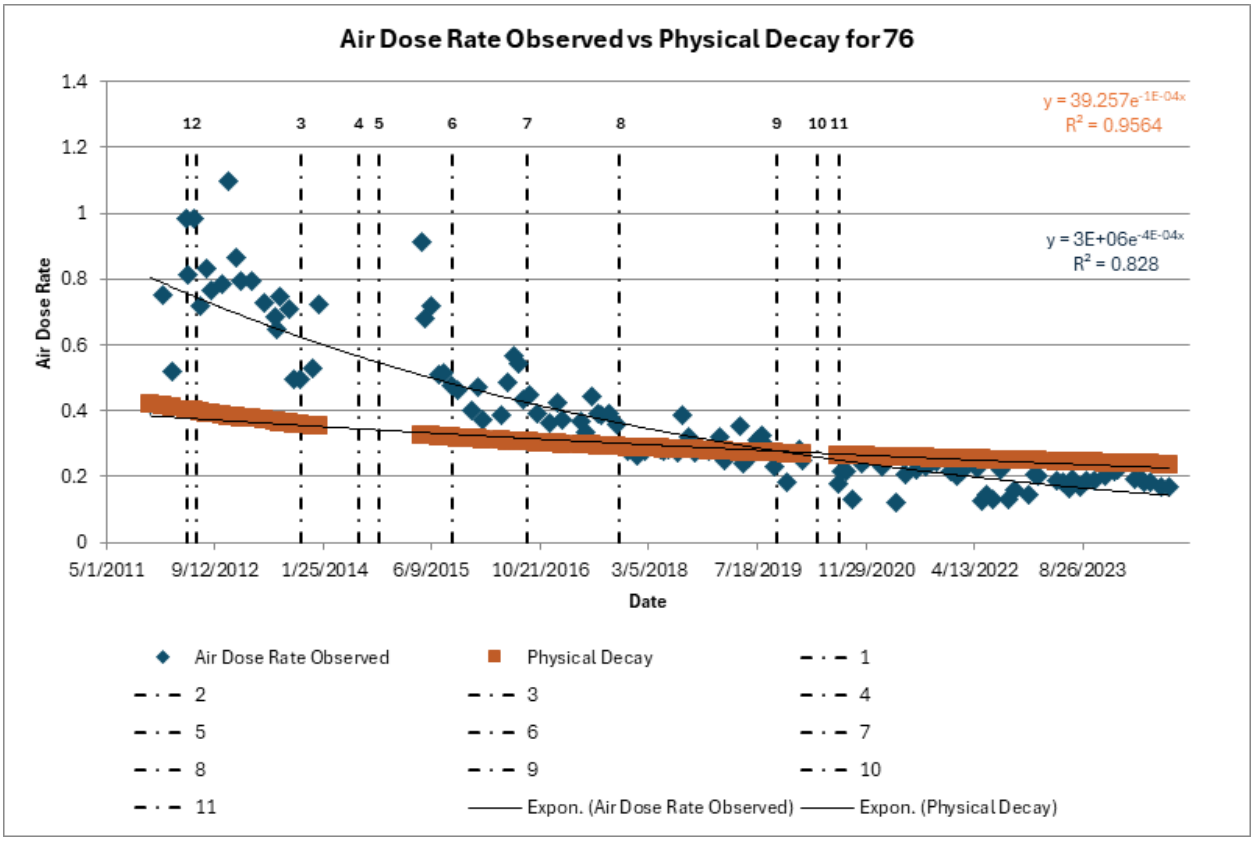

Air Dose Rate Observed vs Physical Decay for 71
y = 105.98e-1E-04x
R² = 0.9568
y = 5E+07e-4E-04x
R² = 0.7642
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
3
2.5
2
1.5
1
0.5
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
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4
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6
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8
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

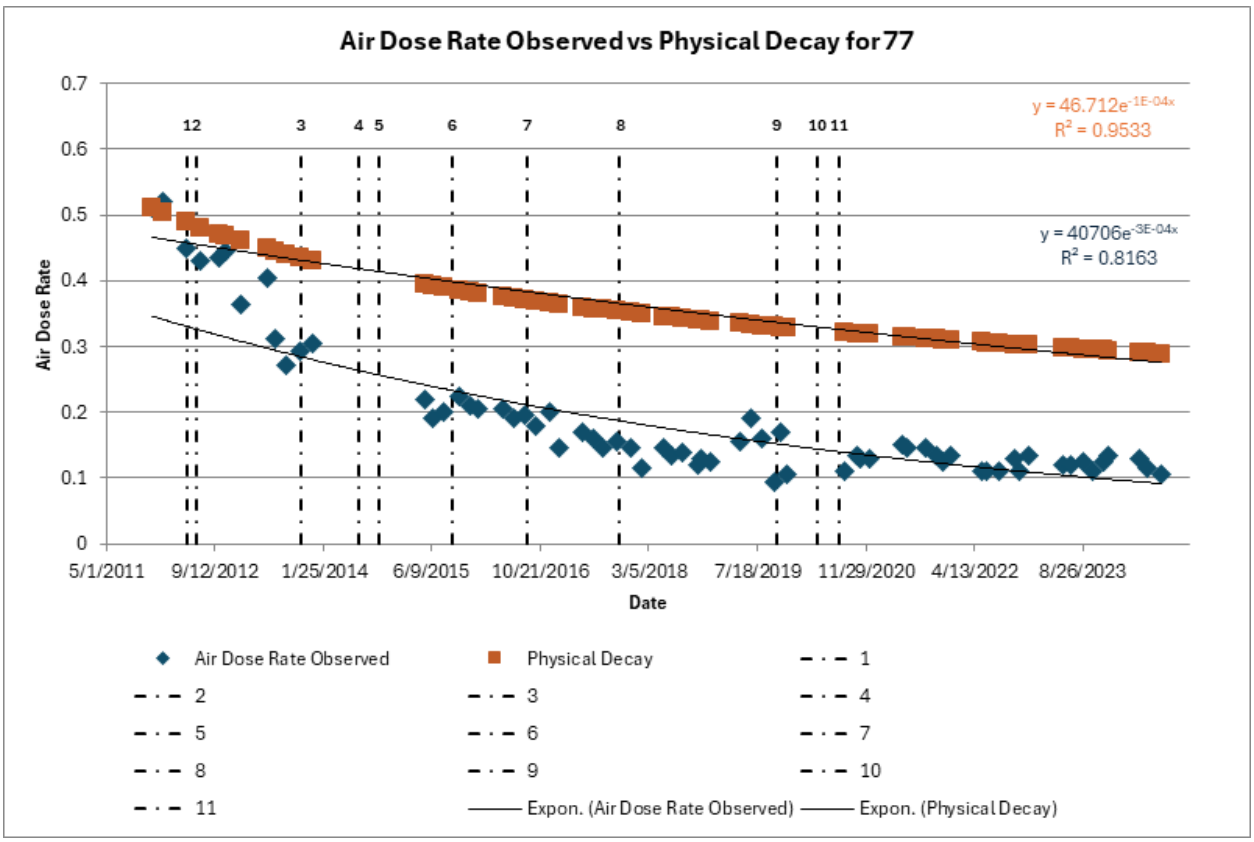

Air Dose Rate Observed vs Physical Decay for 72
y = 44.471e-1E-04x
R² = 0.9568
y = 3E+06e-4E-04x
R² = 0.8456
Air Dose Rate
Date
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

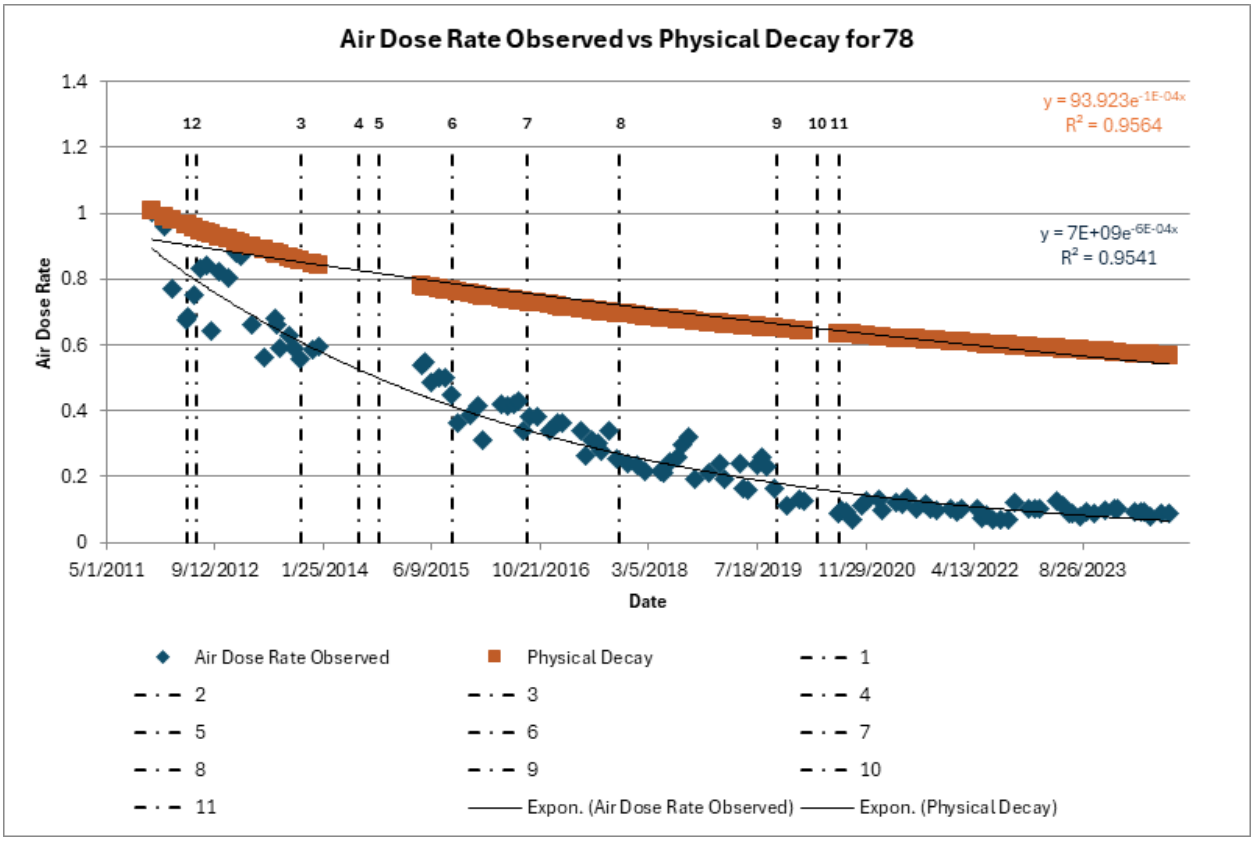

Air Dose Rate Observed vs Physical Decay for 73
y = 34.494e-1E-04x
R² = 0.954
y = 13302e-3E-04x
R² = 0.7576
Air Dose Rate
Date
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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8
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

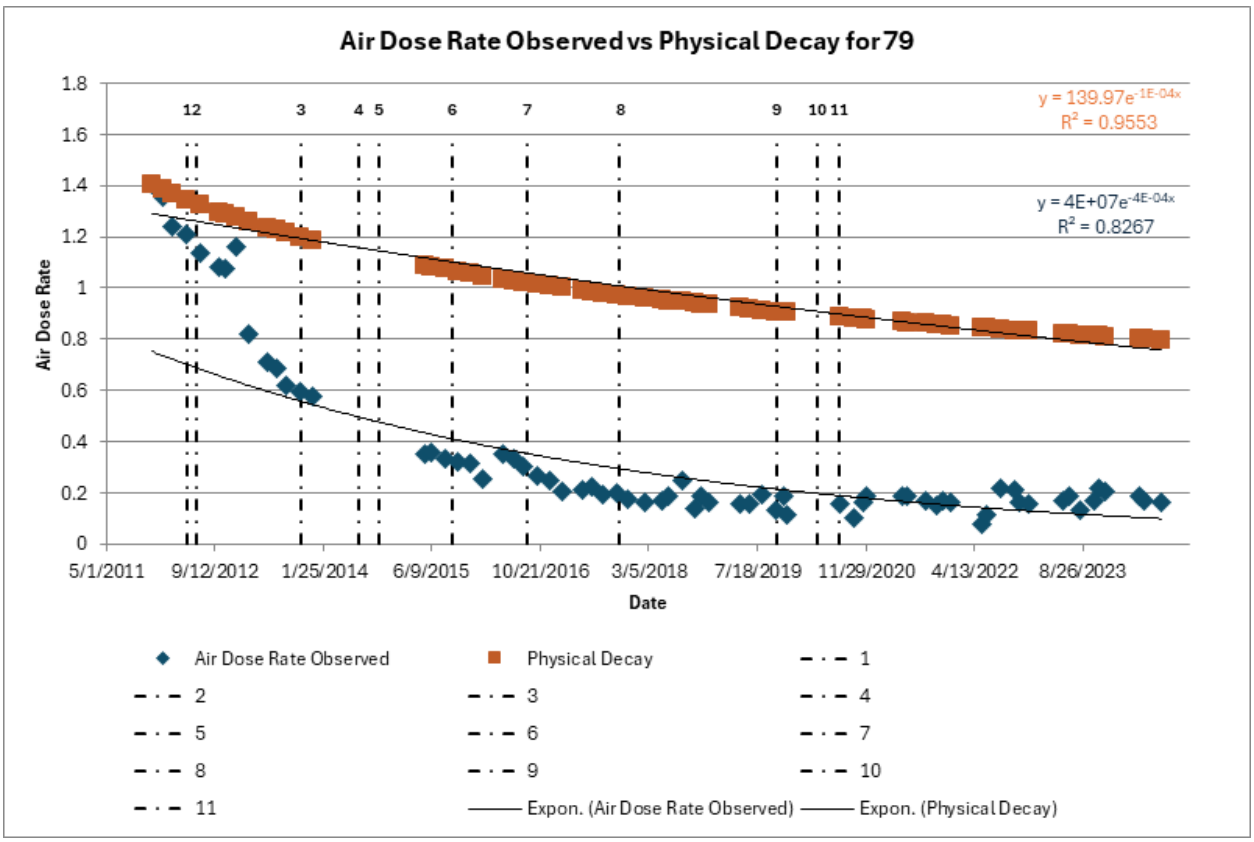

Air Dose Rate Observed vs Physical Decay for 74
y = 81.6e-1E-04x
R² = 0.9543
y = 734832e-3E-04x
R² = 0.8072
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
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8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

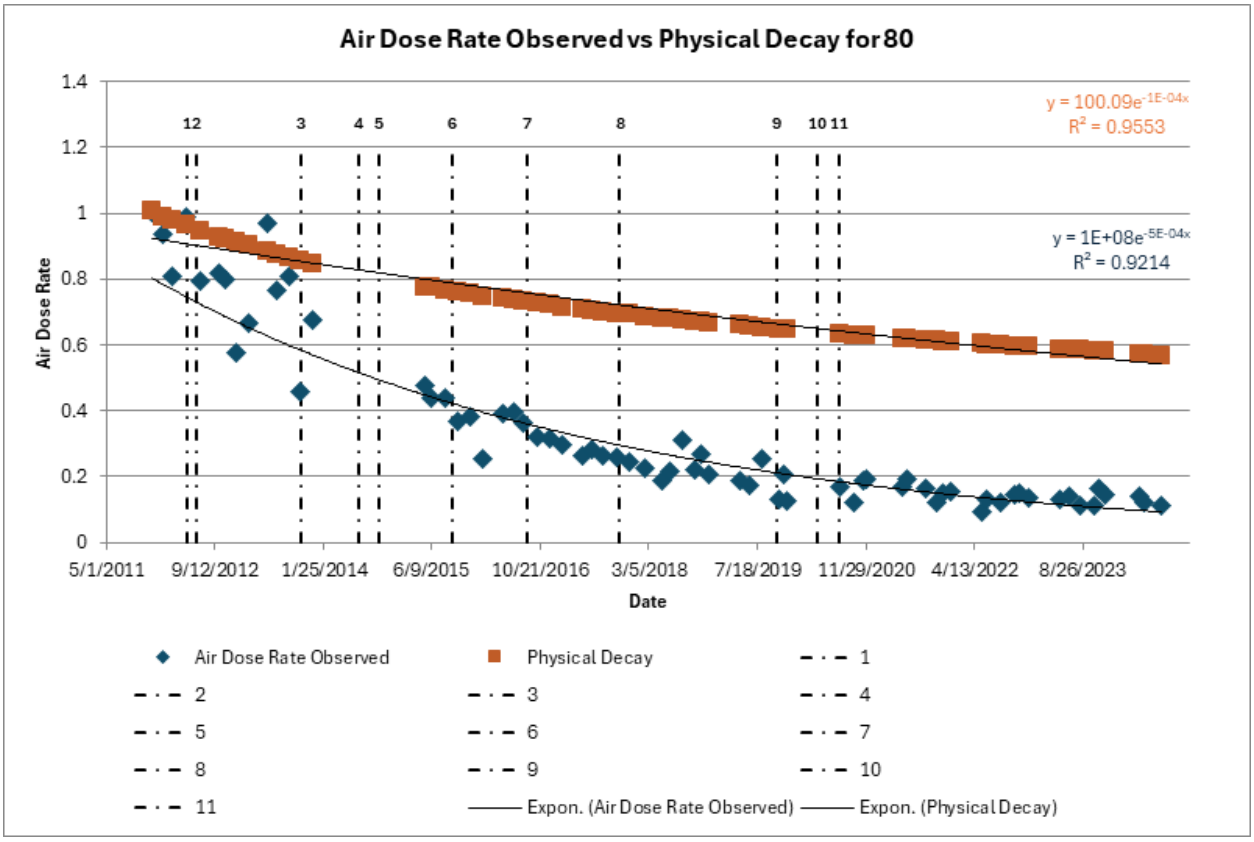

Air Dose Rate Observed vs Physical Decay for 75
y = 90.893e-1E-04x
R² = 0.9559
y = 281135e-3E-04x
R² = 0.7745
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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5
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11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

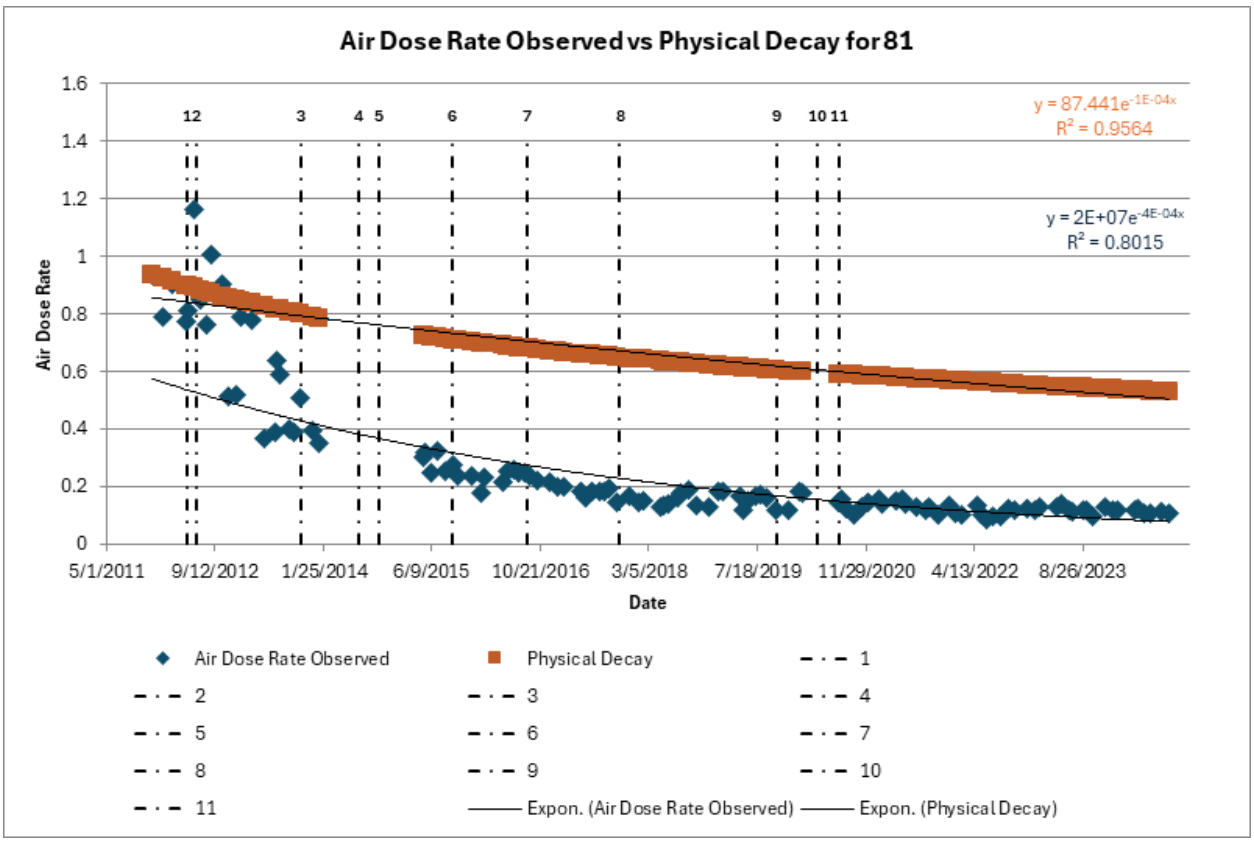

Air Dose Rate Observed vs Physical Decay for 76
y = 39.257e-1E-04x
R² = 0.9564
y = 3E+06e-4E-04x
R² = 0.828
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
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5
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7
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

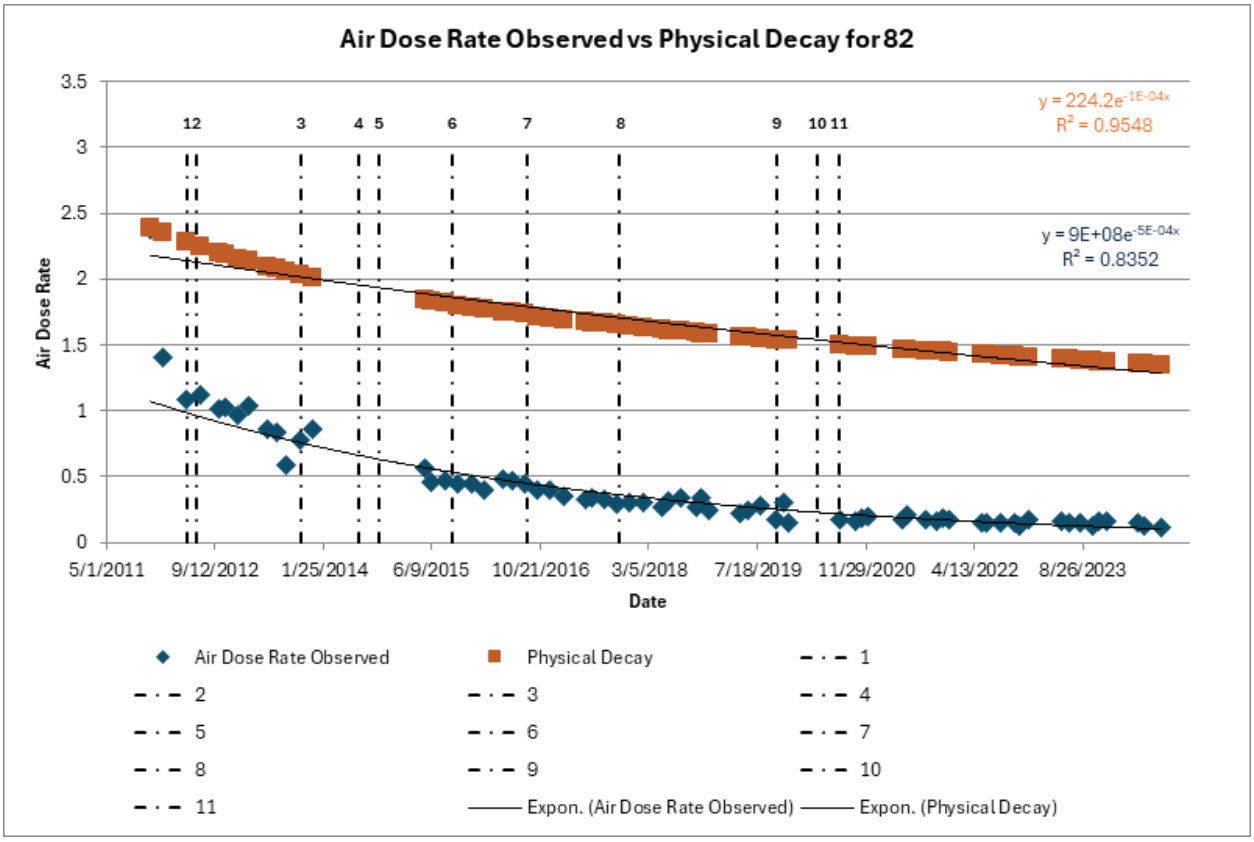

Air Dose Rate Observed vs Physical Decay for 77
y = 46.712e-1E-04x
R² = 0.9533
y = 40706e-3E-04x
R² = 0.8163
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

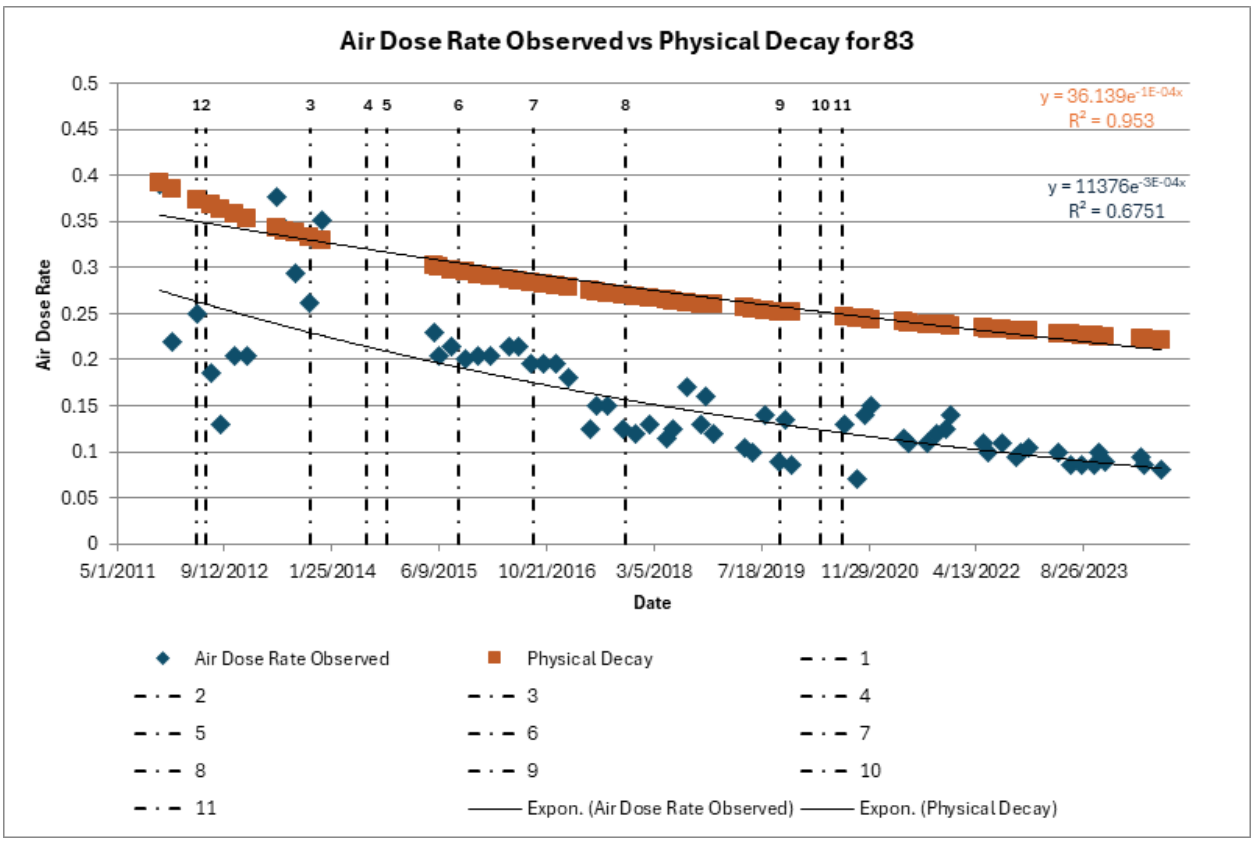

Air Dose Rate Observed vs Physical Decay for 78
y = 93.923e-1E-04x
R² = 0.9564
y = 7E+09e-6E-04x
R² = 0.9541
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
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5
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8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

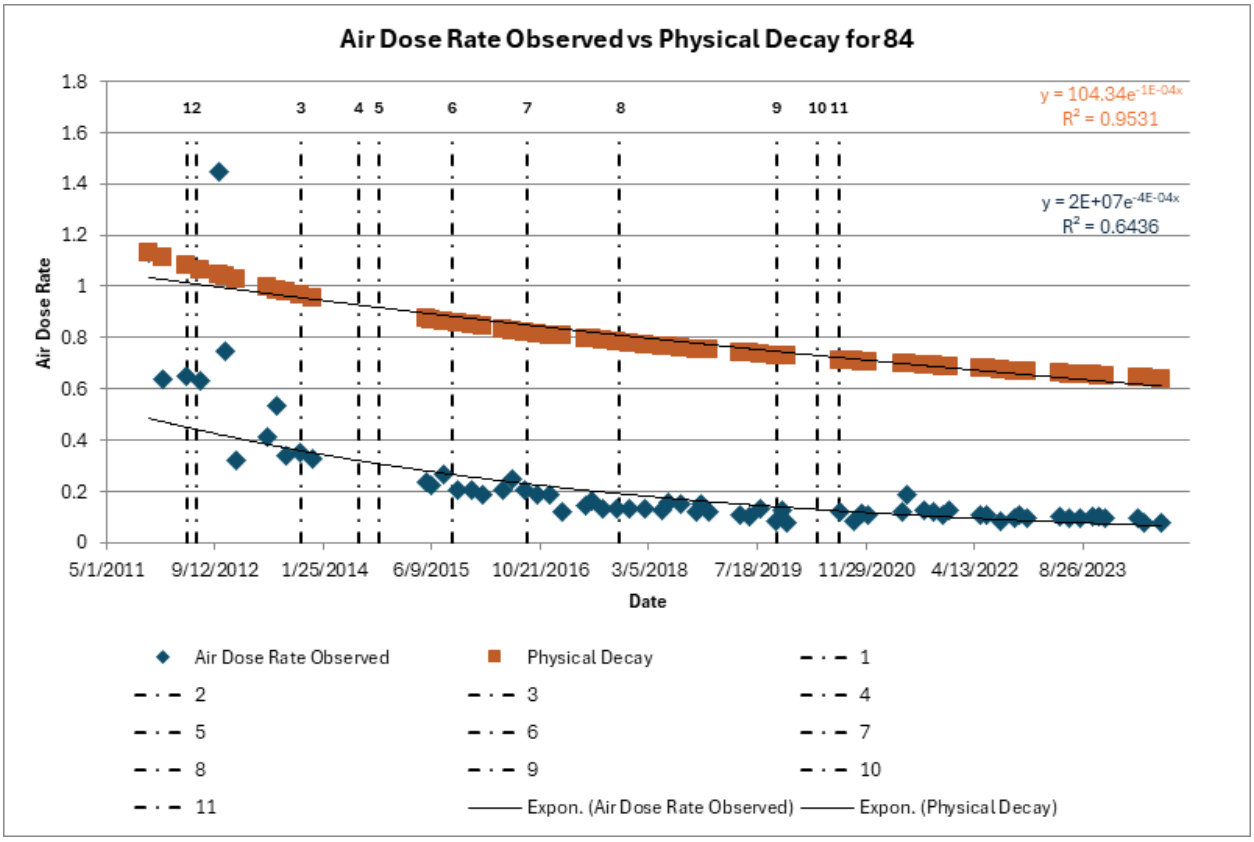

Air Dose Rate Observed vs Physical Decay for 79
y = 139.97e-1E-04x
R² = 0.9553
y = 4E+07e-4E-04x
R² = 0.8267
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
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3
4
5
6
7
8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

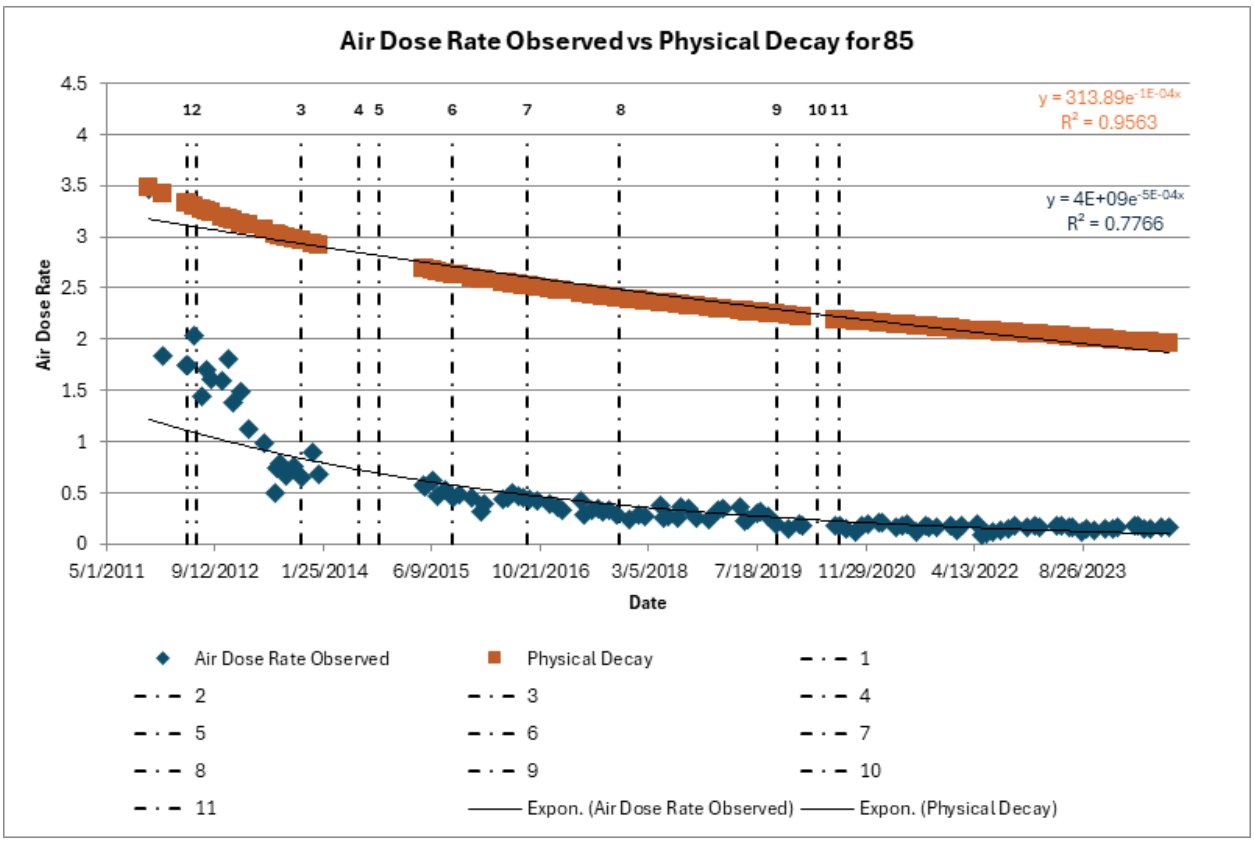

Air Dose Rate Observed vs Physical Decay for 80
y = 100.09e-1E-04x
R² = 0.9553
y = 1E+08e-5E-04x
R² = 0.9214
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

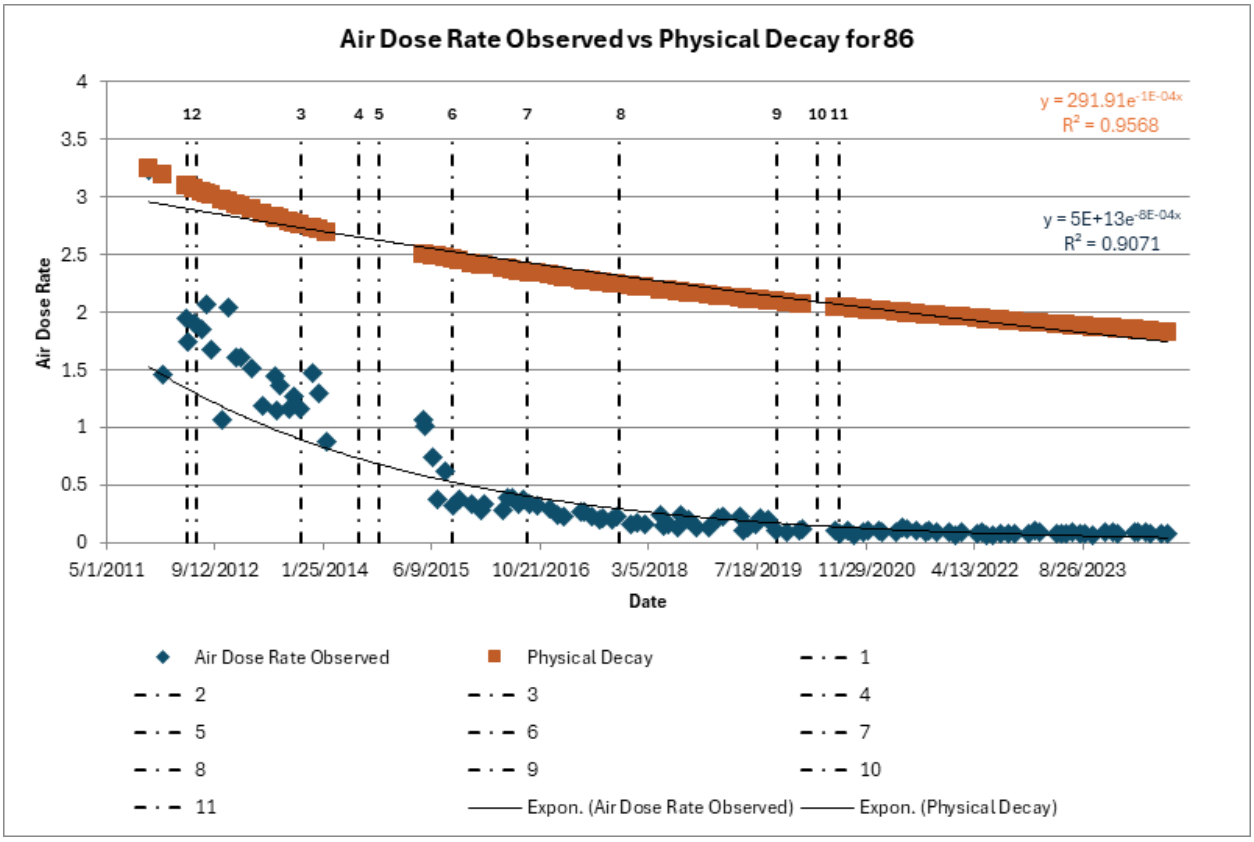

Air Dose Rate Observed vs Physical Decay for 81
y = 87.441e-1E-04x
R² = 0.9564
y = 2E+07e-4E-04x
R² = 0.8015
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
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4
5
6
7
8
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10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

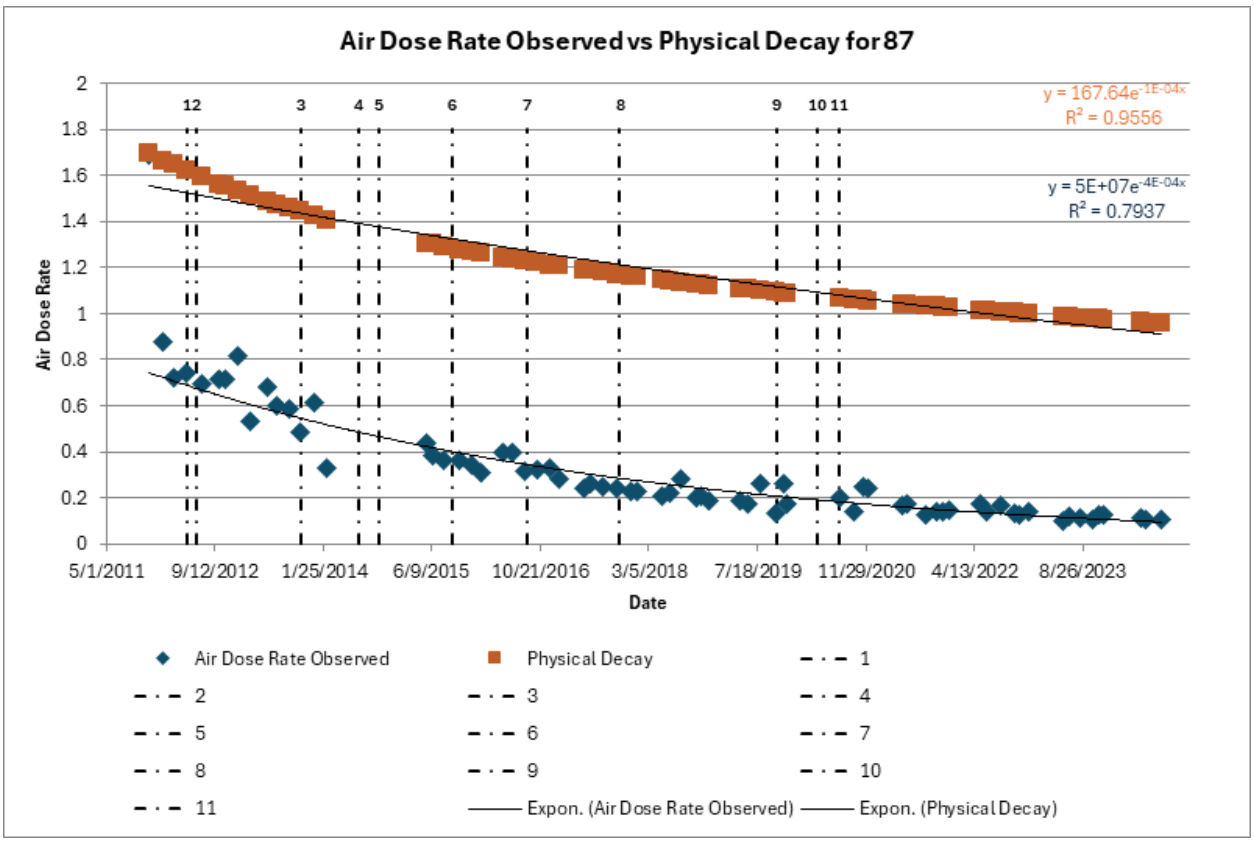

Air Dose Rate Observed vs Physical Decay for 82
y = 224.2e-1E-04x
R² = 0.9548
y = 9E+08e-5E-04x
R² = 0.8352
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

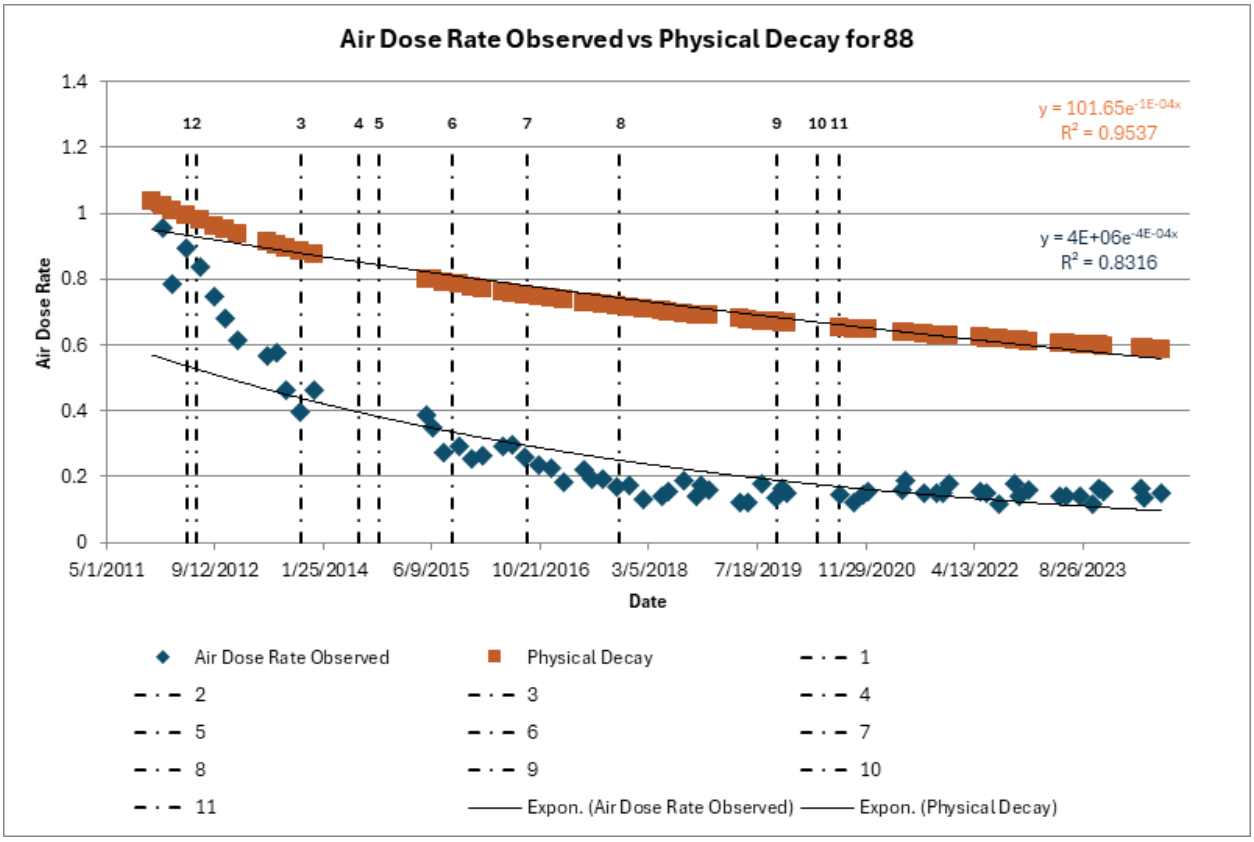

Air Dose Rate Observed vs Physical Decay for 83
y = 36.139e-1E-04x
R² = 0.953
y = 11376e-3E-04x
R² = 0.6751
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

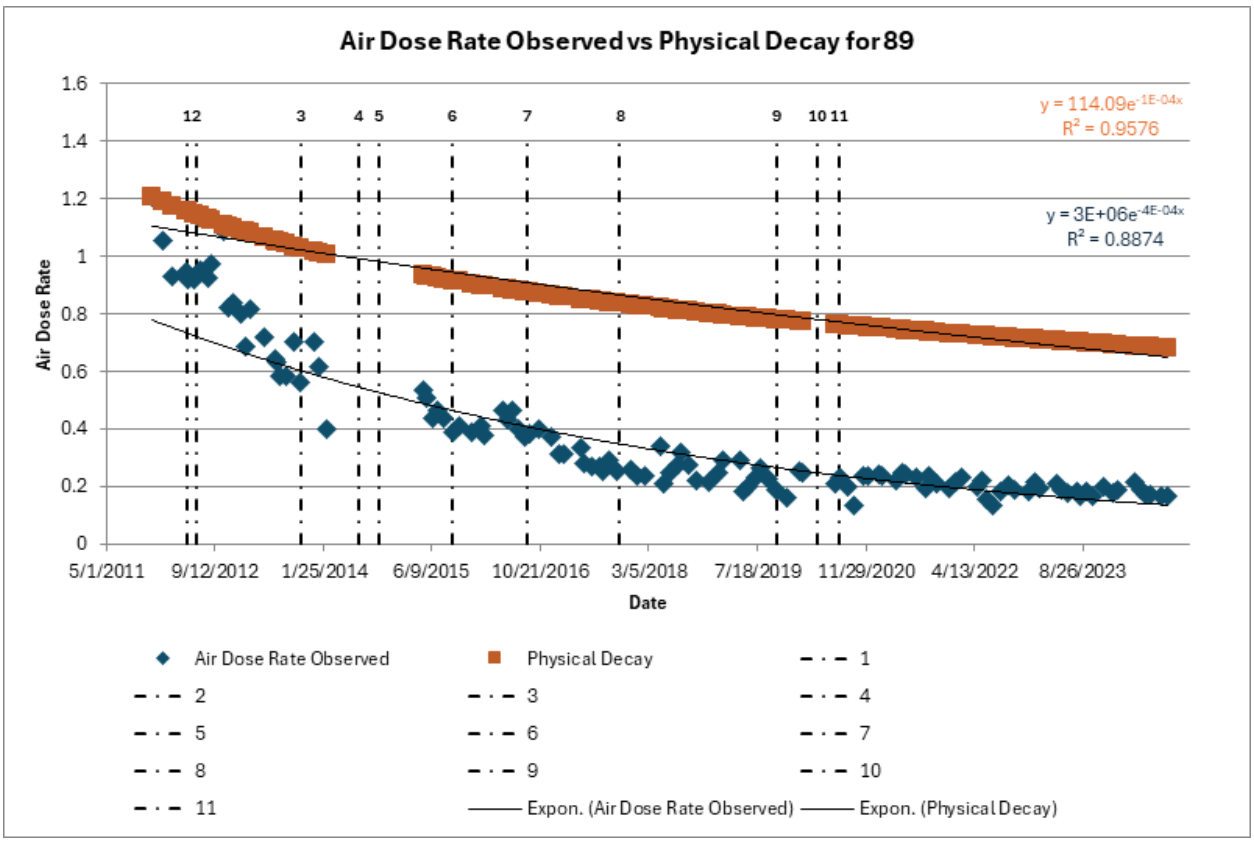

Air Dose Rate Observed vs Physical Decay for 84
y = 104.34e^-1E-04x
R² = 0.9531
y = 2E+07e^-4E-04x
R² = 0.6436
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

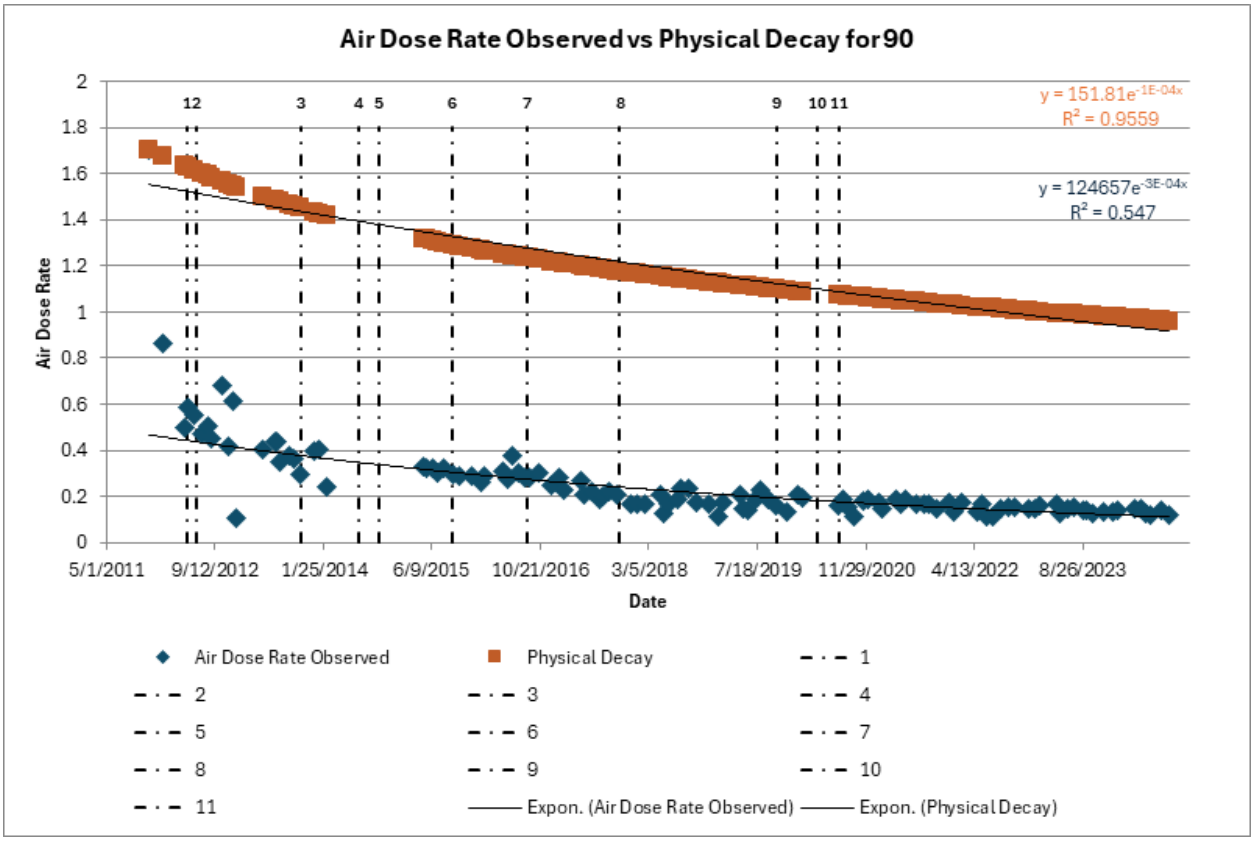

Air Dose Rate Observed vs Physical Decay for 85
y = 313.89e^-1E-04x
R² = 0.9563
y = 4E+09e^-5E-04x
R² = 0.7766
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

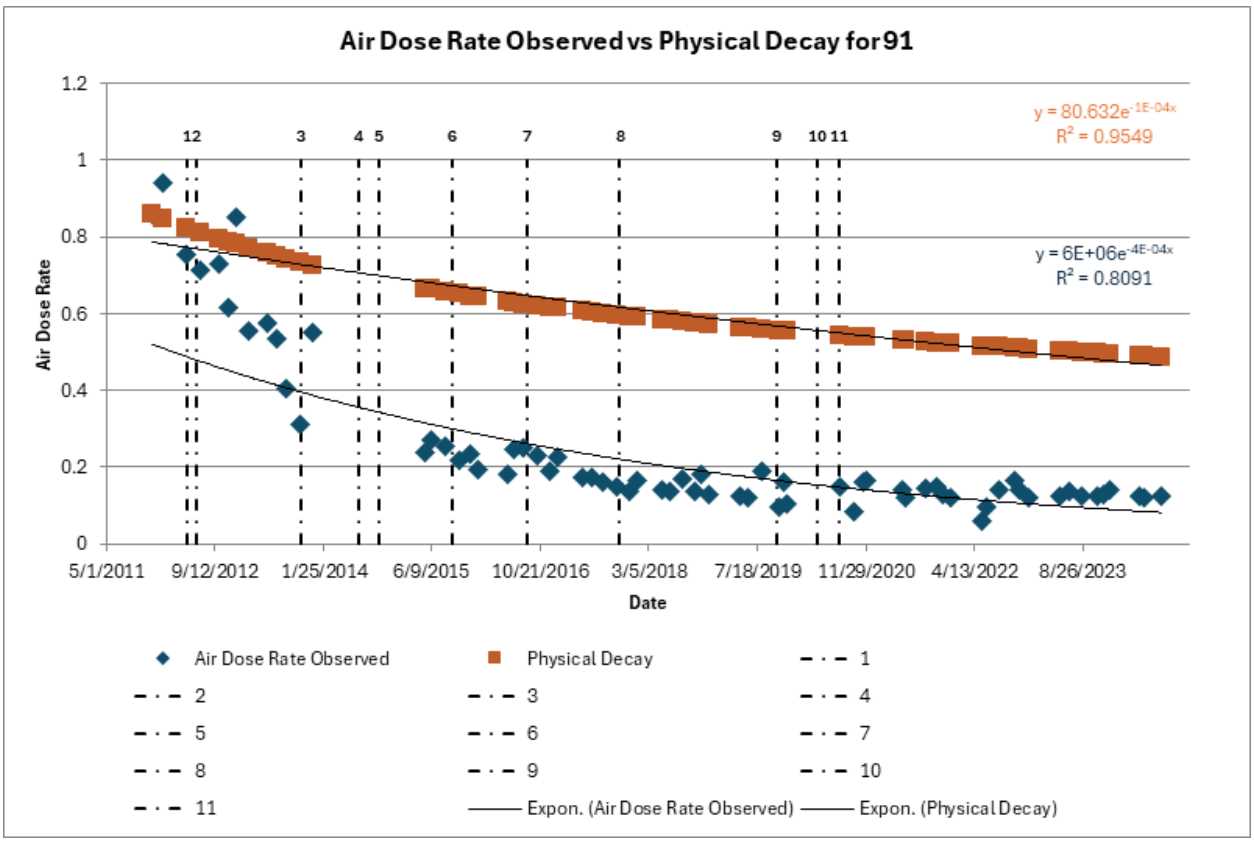

Air Dose Rate Observed vs Physical Decay for 86
y = 291.91e-1E-04x
R² = 0.9568
y = 5E+13e-8E-04x
R² = 0.9071
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
4
3.5
3
2.5
2
1.5
1
0.5
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

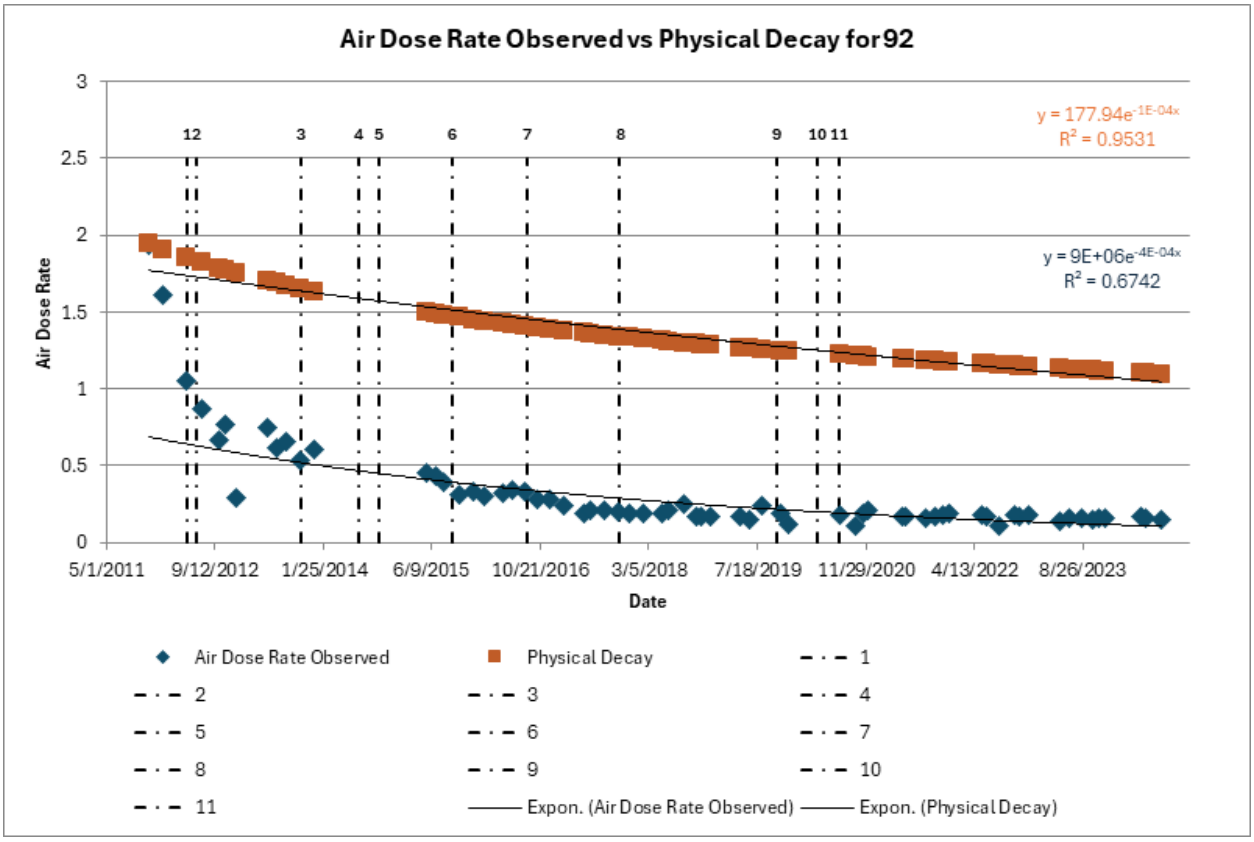

Air Dose Rate Observed vs Physical Decay for 87
y = 167.64e-1E-04x
R² = 0.9556
y = 5E+07e-4E-04x
R² = 0.7937
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

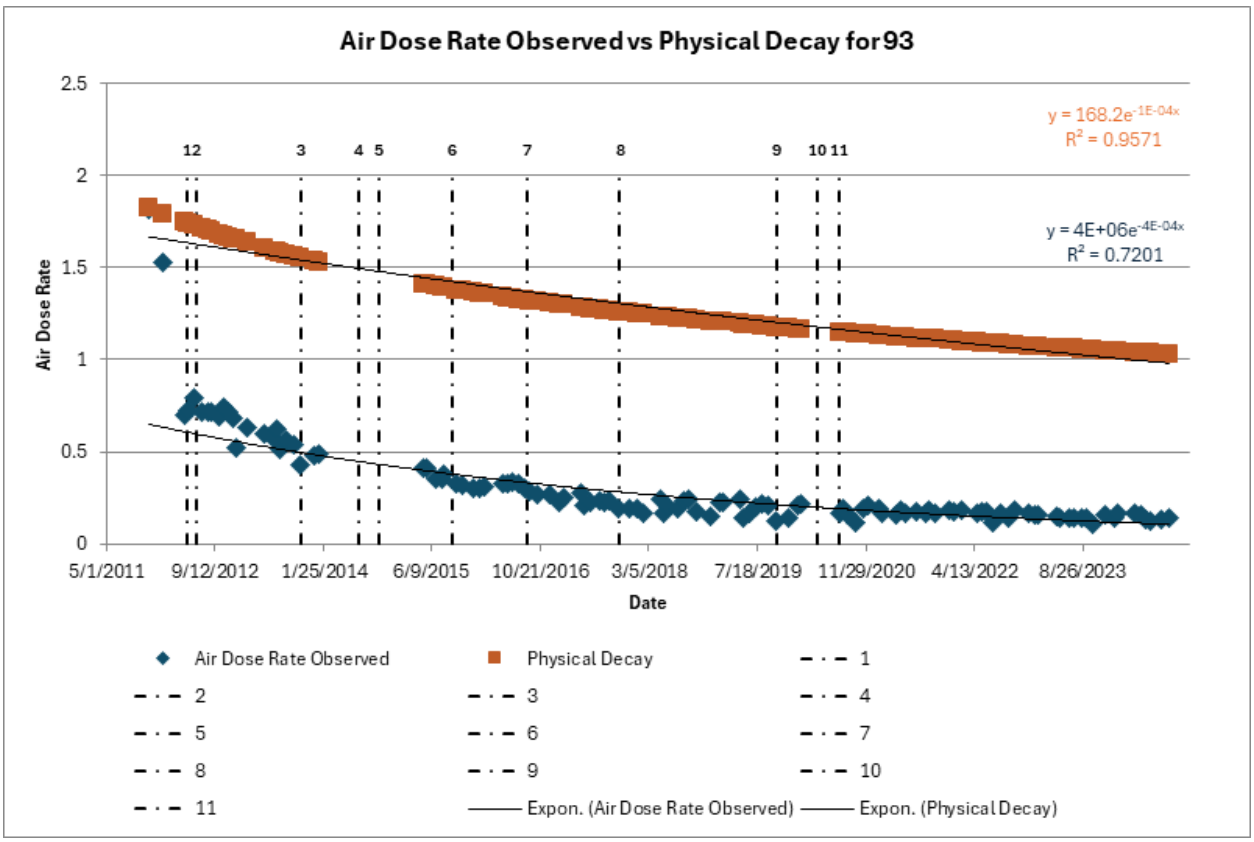

Air Dose Rate Observed vs Physical Decay for 88
y = 101.65e-1E-04x
R² = 0.9537
y = 4E+06e-4E-04x
R² = 0.8316
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

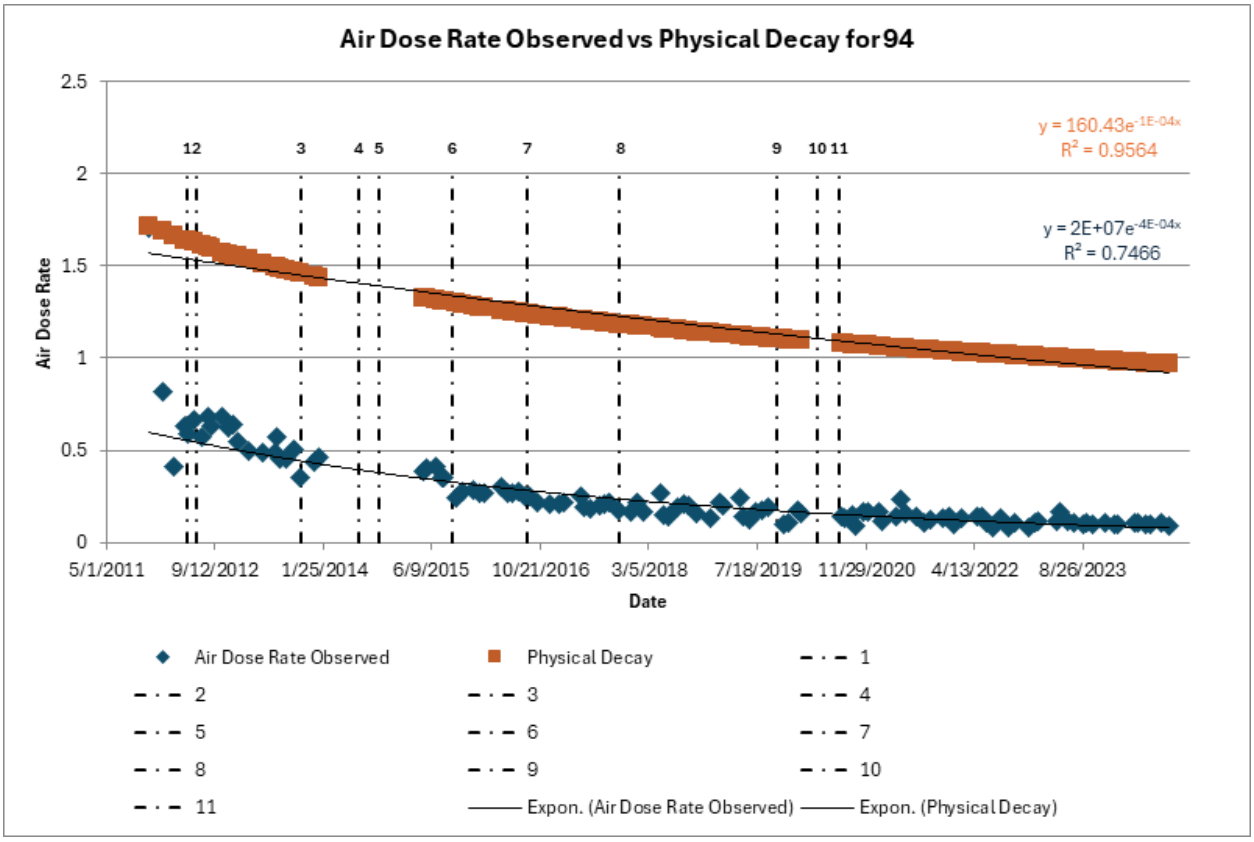

Air Dose Rate Observed vs Physical Decay for 89
y = 114.09e-1E-04x
R² = 0.9576
y = 3E+06e-4E-04x
R² = 0.8874
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

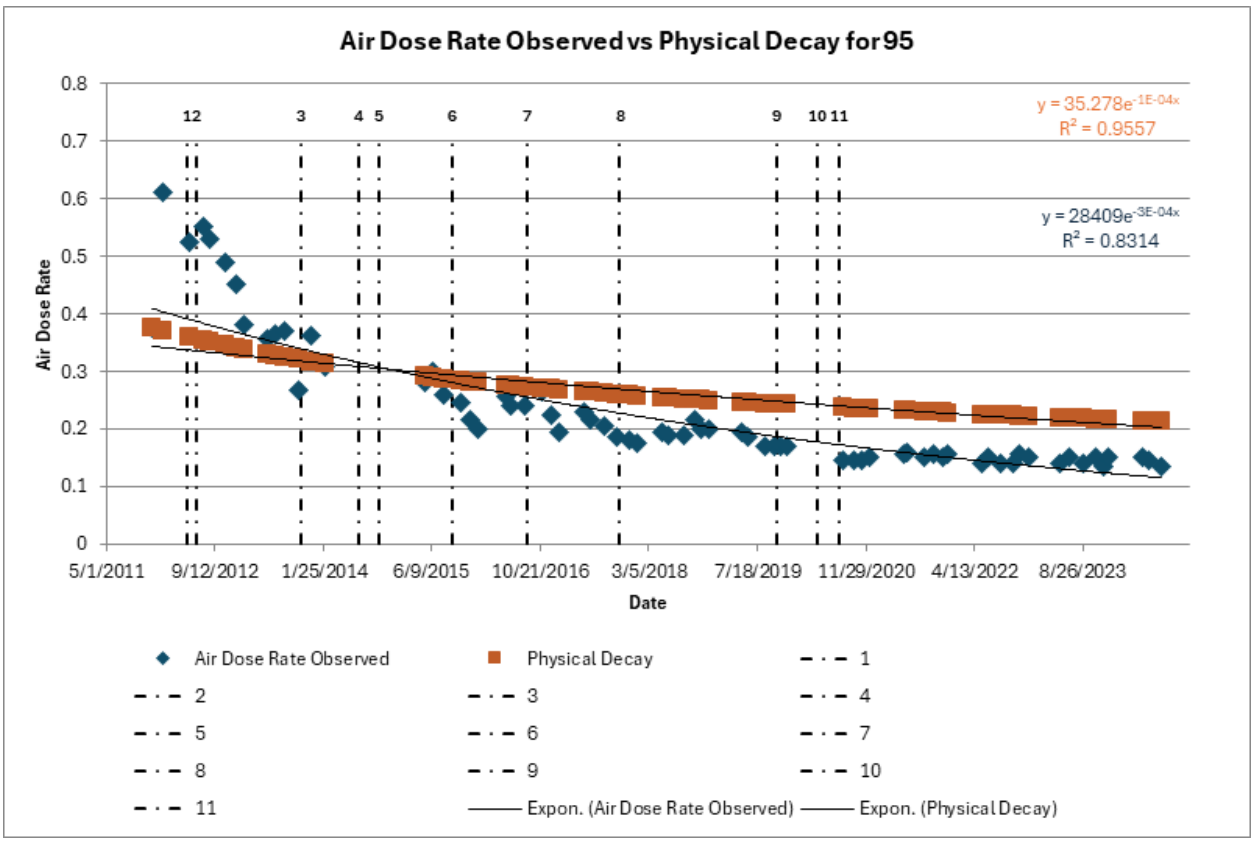

Air Dose Rate Observed vs Physical Decay for 90
y = 151.81e-1E-04x
R² = 0.9559
y = 124657e-3E-04x
R² = 0.547
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

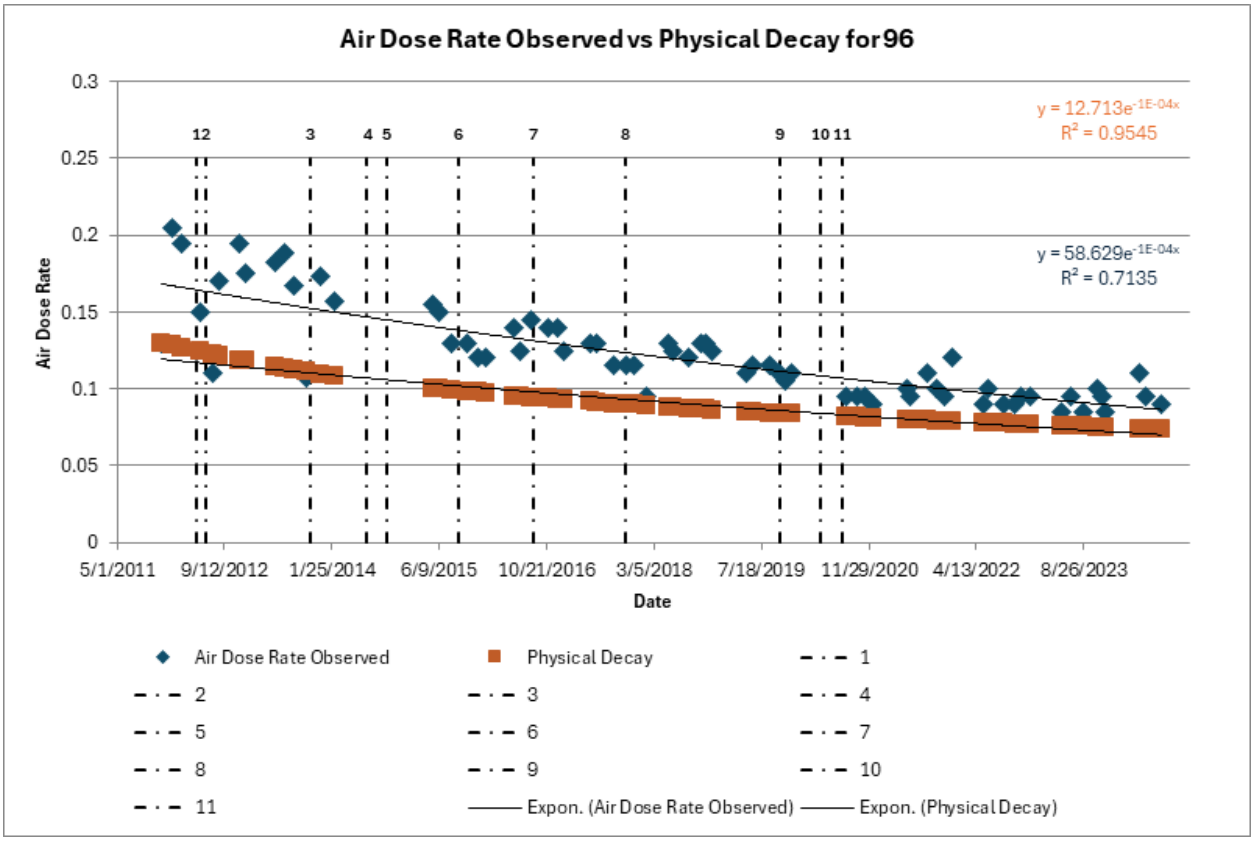

Air Dose Rate Observed vs Physical Decay for 91
y = 80.632e-1E-04x
R² = 0.9549
y = 6E+06e-4E-04x
R² = 0.8091
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

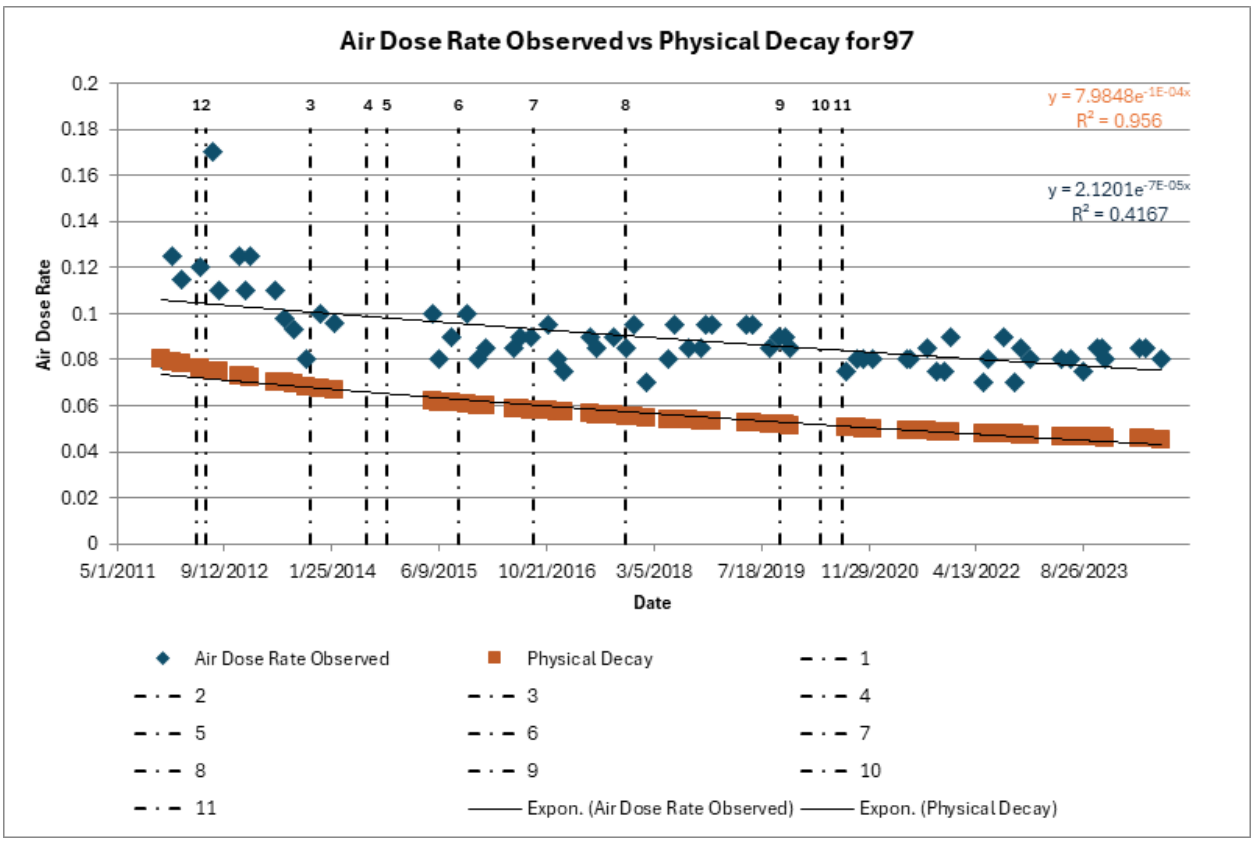

Air Dose Rate Observed vs Physical Decay for 92
y = 177.94e-1E-04x
R² = 0.9531
y = 9E+06e-4E-04x
R² = 0.6742
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay for 93
y = 168.2e-1E-04x
R² = 0.9571
y = 4E+06e-4E-04x
R² = 0.7201
12
3
4 5
6
7
8
9
10 11
Air Dose Rate
Date
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay for 94
y = 160.43e-1E-04x
R² = 0.9564
y = 2E+07e-4E-04x
R² = 0.7466
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
2.5
2
1.5
1
0.5
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay for 95
y = 35.278e-1E-04x
R² = 0.9557
y = 28409e-3E-04x
R² = 0.8314
Air Dose Rate
Date
12
3
4 5
6
7
8
9
10 11
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay for 96
y = 12.713e-1E-04x
R² = 0.9545
y = 58.629e-1E-04x
R² = 0.7135
Air Dose Rate
Date
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay for 97
y = 7.9848e-1E-04x
R² = 0.956
y = 2.1201e-7E-05x
R² = 0.4167
Air Dose Rate
Date
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5/1/2011
9/12/2012
1/25/2014
6/9/2015
10/21/2016
3/5/2018
7/18/2019
11/29/2020
4/13/2022
8/26/2023
12
3
4 5
6
7
8
9
10 11
Air Dose Rate Observed
Physical Decay
1
2
3
4
5
6
7
8
9
10
11
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

K: Event Data Information:

Missing locations in each event:

Event1: Missing 17, 22, 28, 29, 33, 54, 56, 57, 58

Event2: Missing 28, 29, 33

Event3: None

Event4: Missing 54-97

Event5: Watch 17-19, Missing 54-97

Event6: None

Event7: None

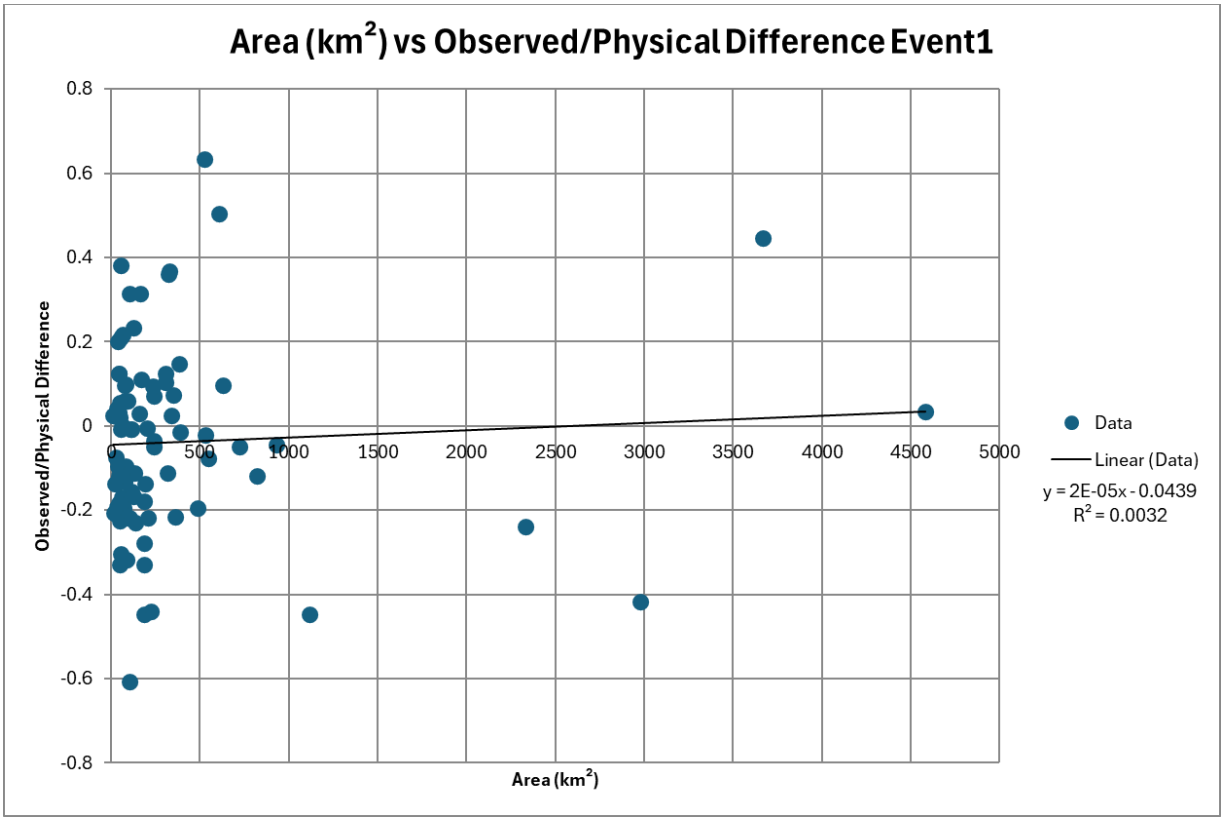
Event8: Watch 8, 18, 43, 47, 48, 50, 52, 53, 56, 69, 73, 74,

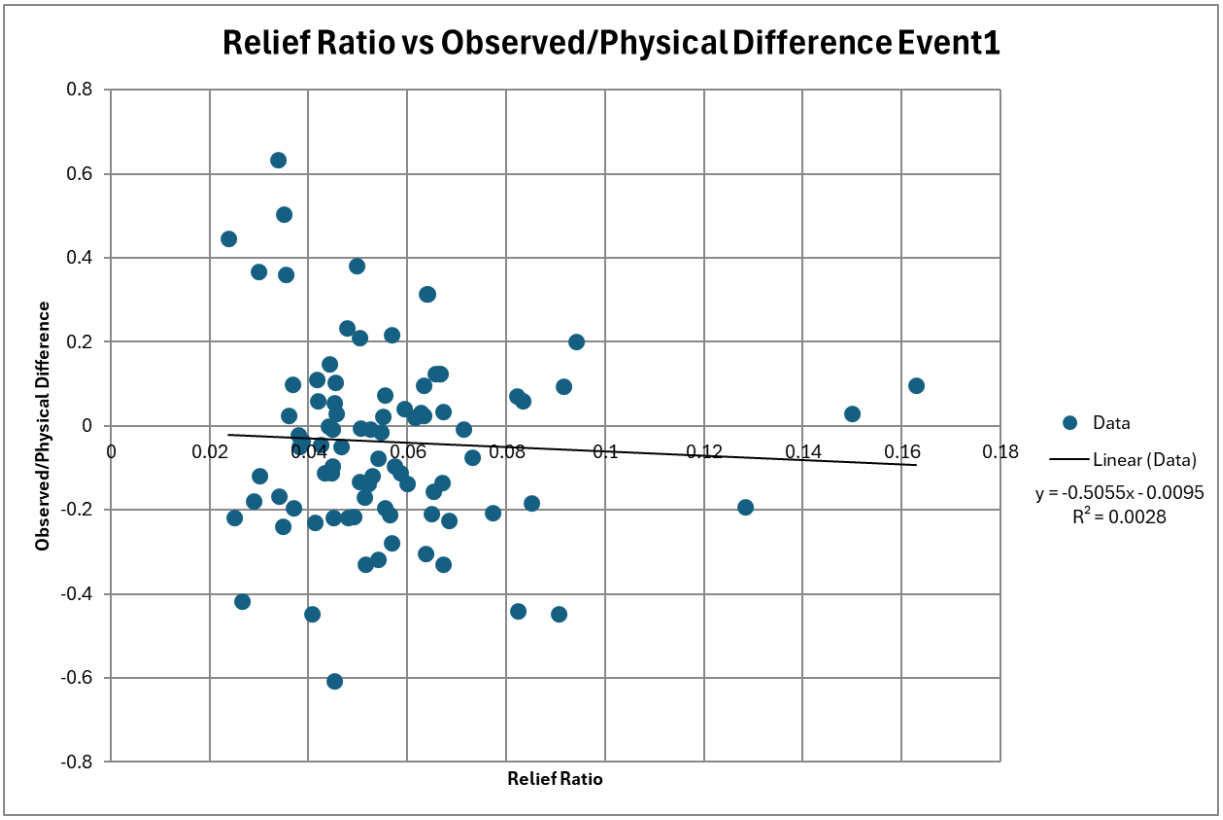
Event9: Watch 18, 79, 81, 82, 85,

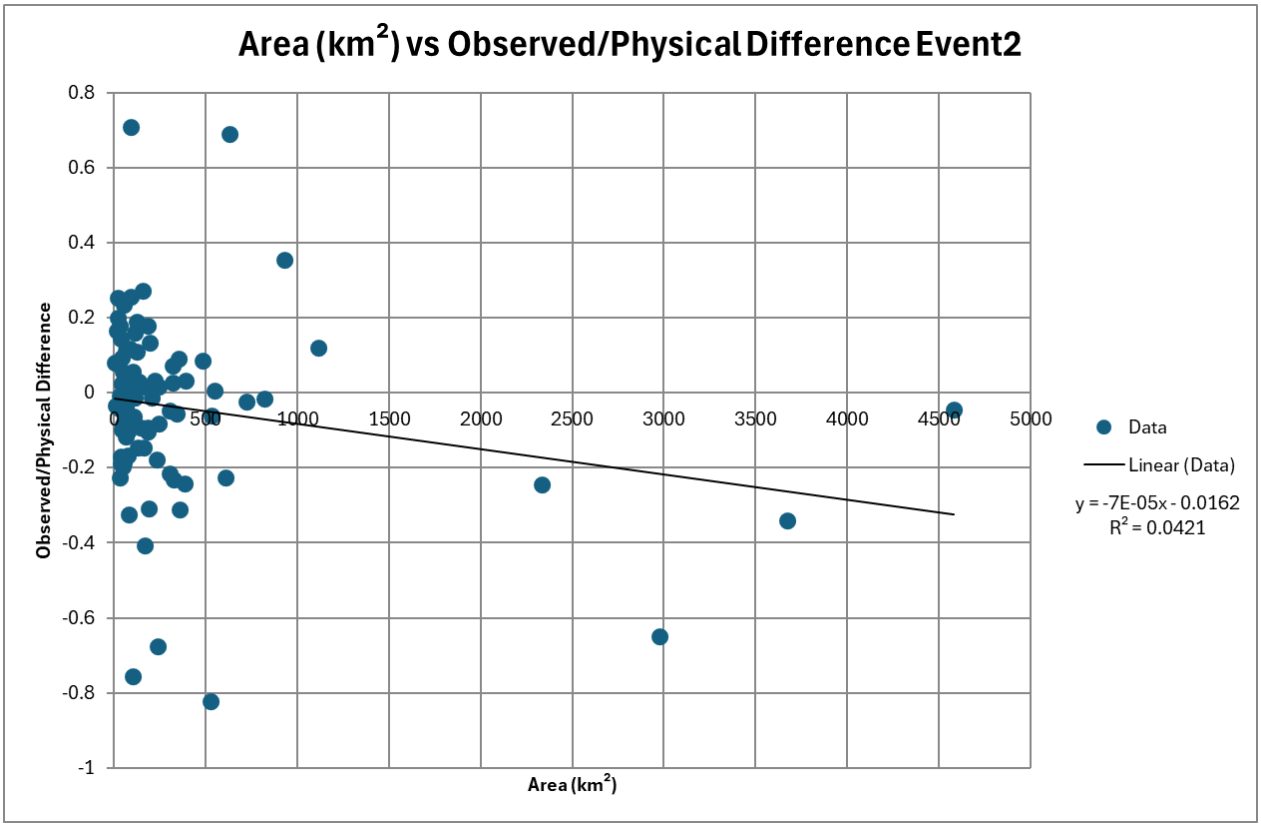
Event10/11: Wholistic error due to COVID, very clearly state issues about different dates that were used.

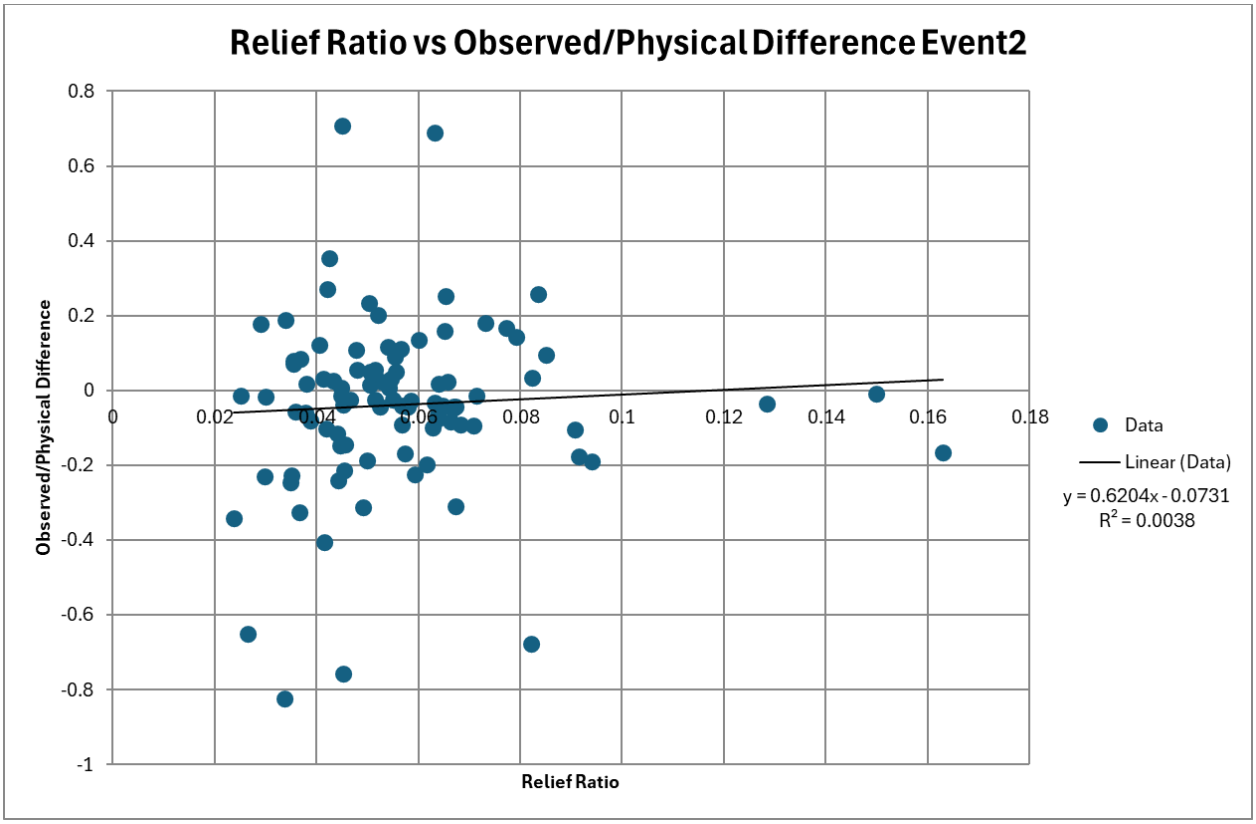
Incorrect Event 11: Includes values beginning before the event 10, and compares it to the values for after

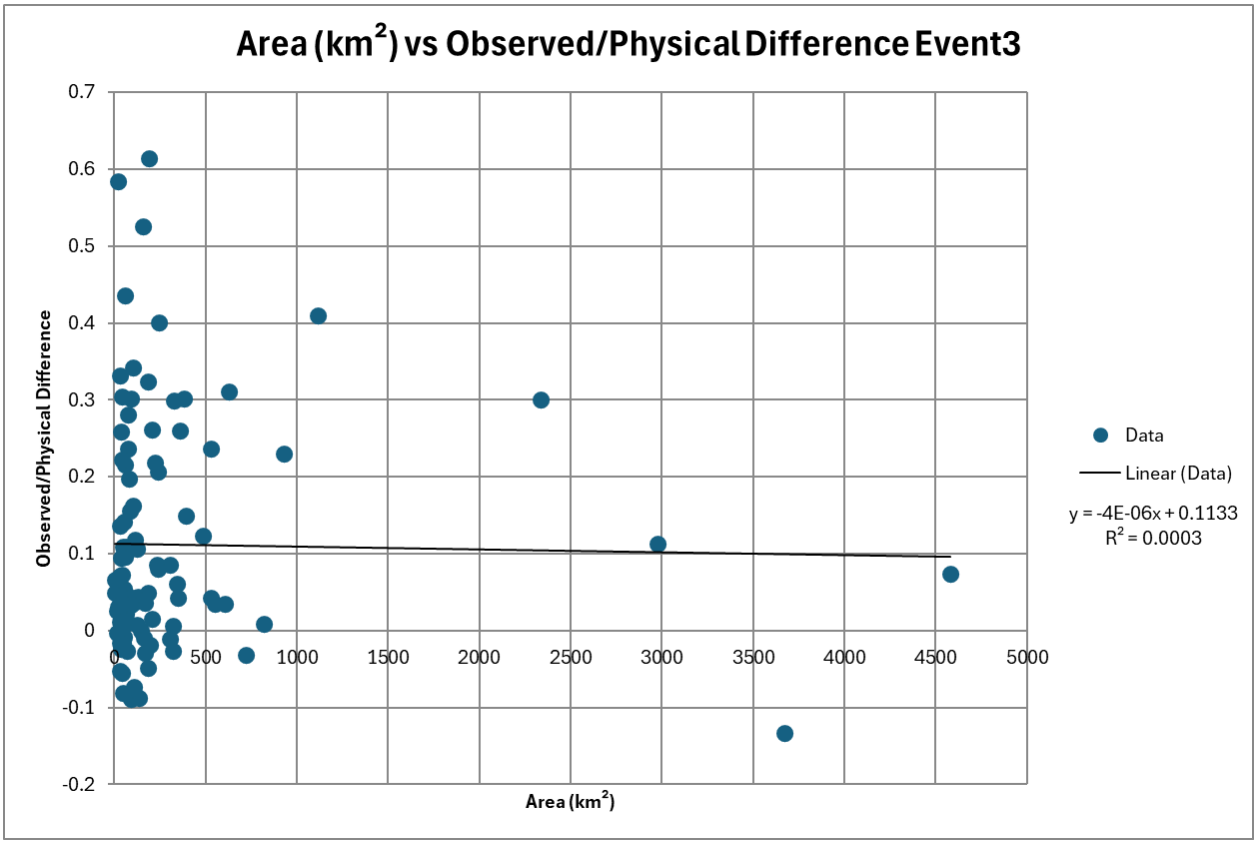
L: Event Analysis Ratio Difference Graphs 1-11 (Including Incorrect Event 10)

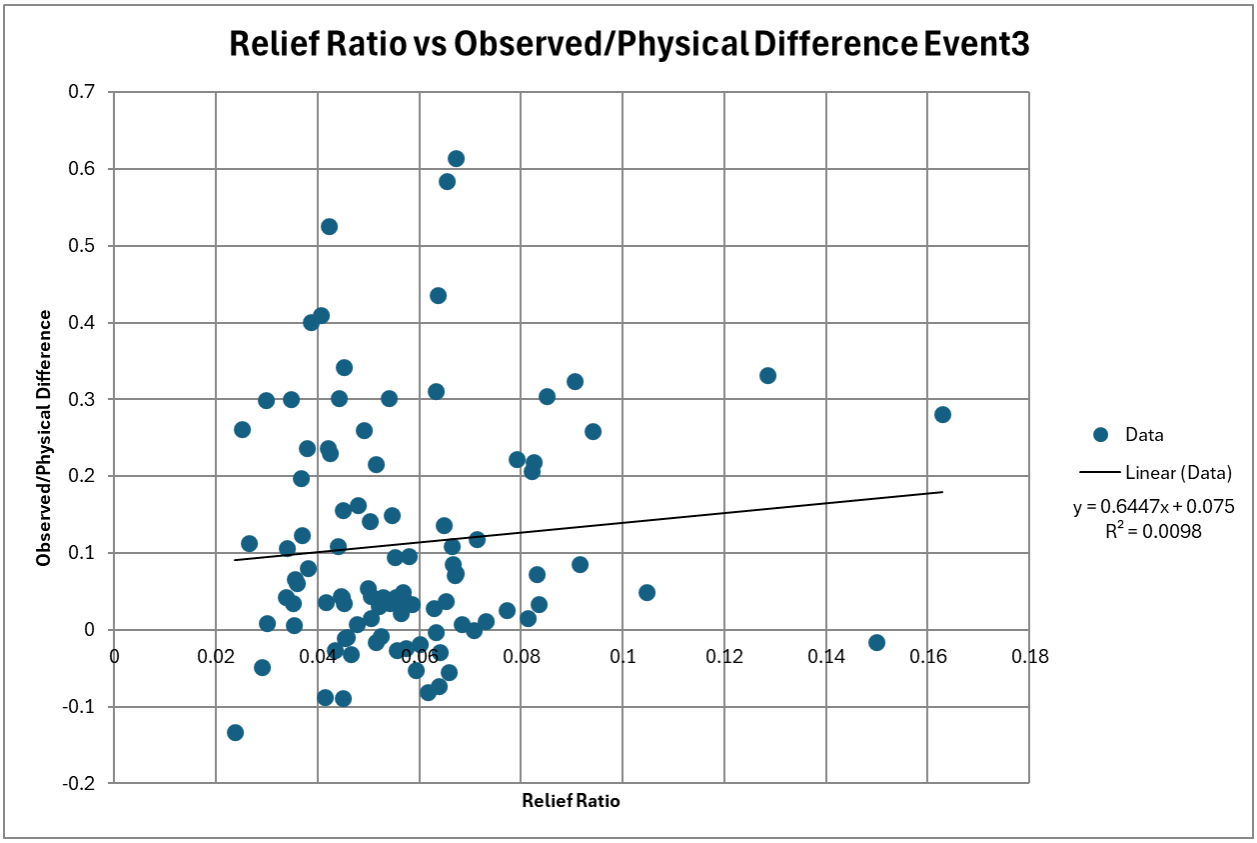


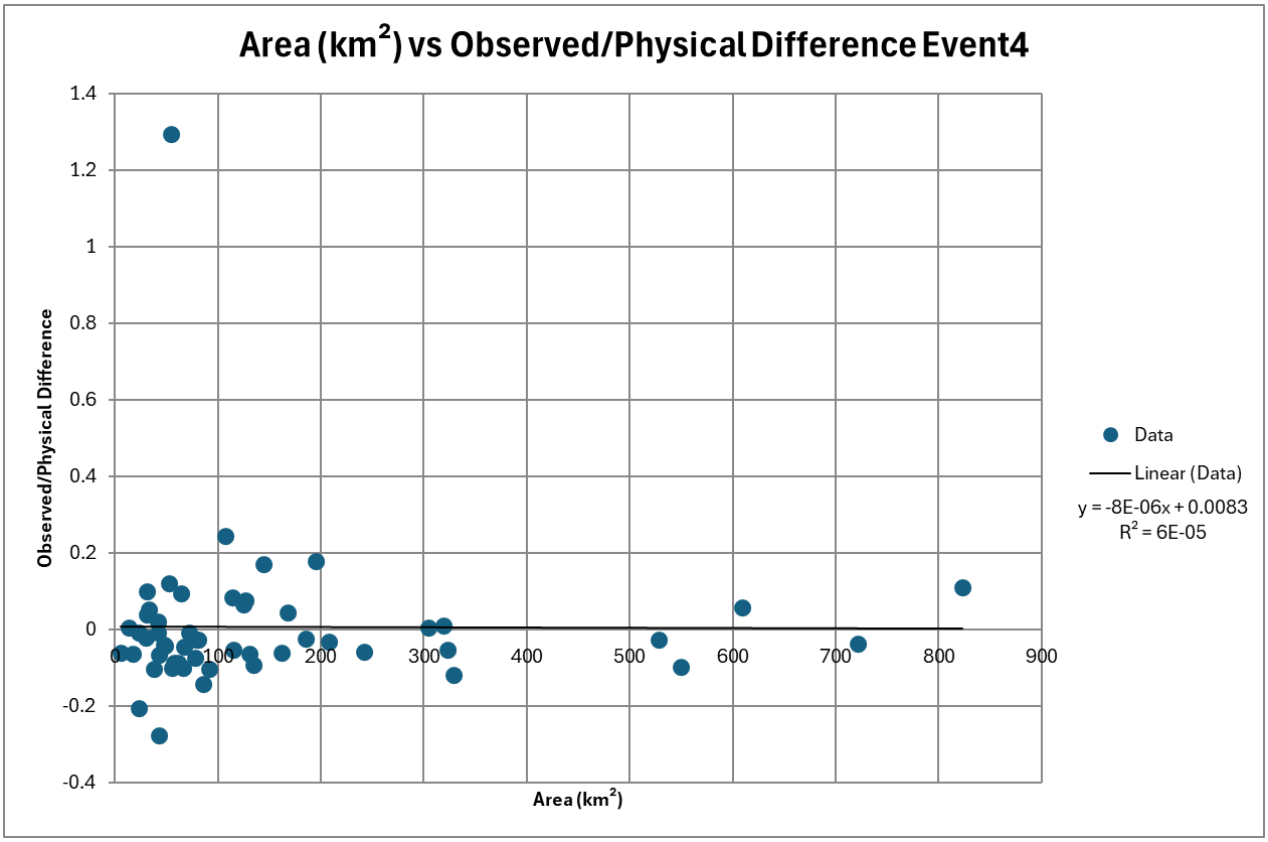


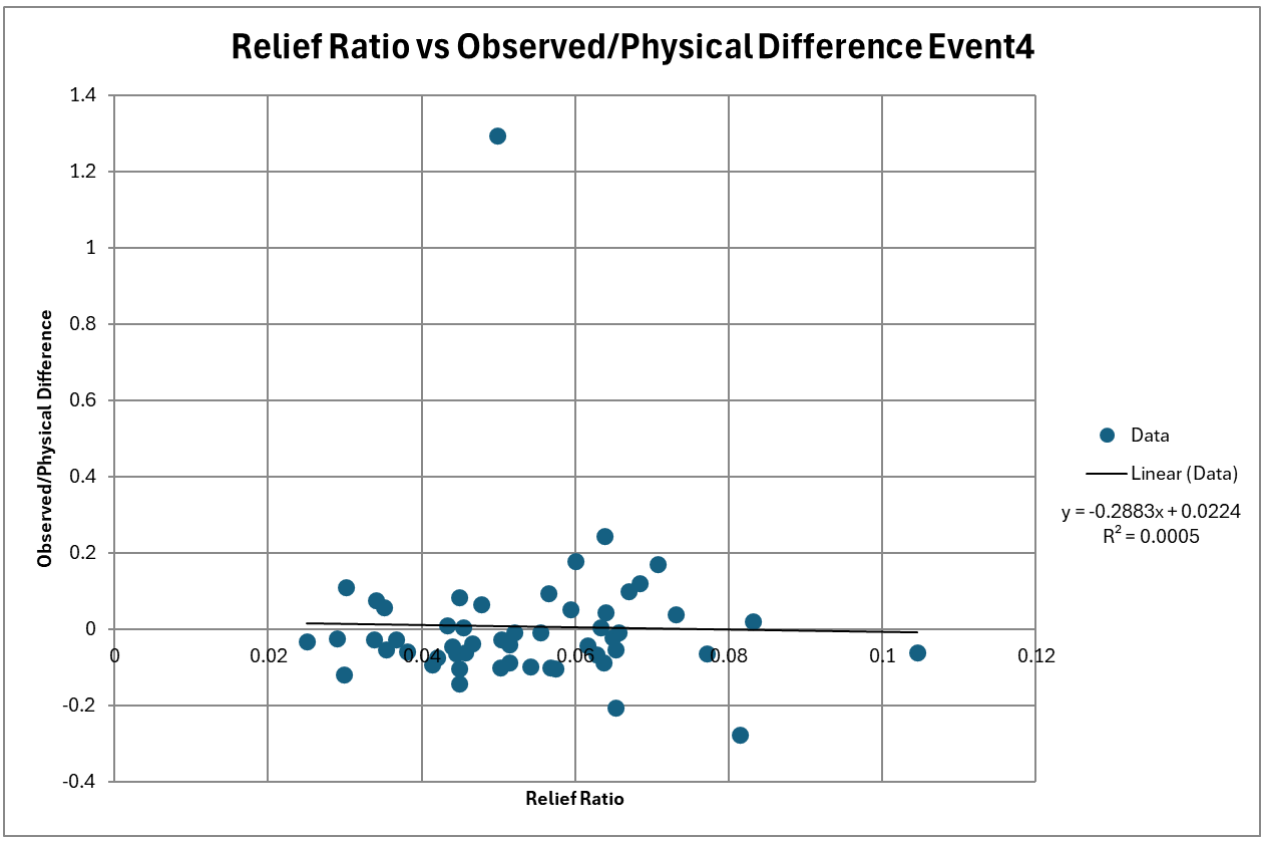

Area (km²) vs Observed/Physical Difference Event2
Observed/Physical Difference
Area (km²)
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = -7E-05x - 0.0162
R² = 0.0421

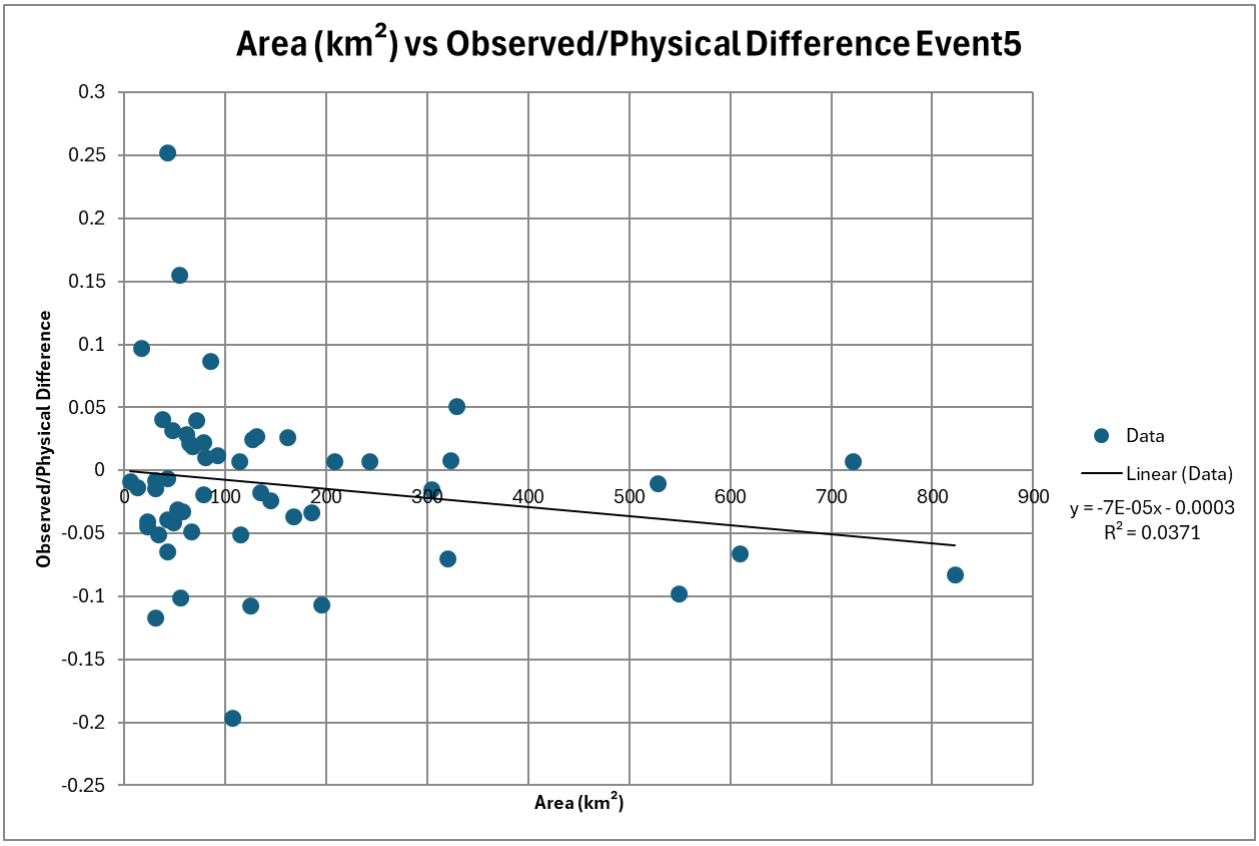

Relief Ratio vs Observed/Physical Difference Event2
Observed/Physical Difference
Relief Ratio
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = 0.6204x - 0.0731
R² = 0.0038

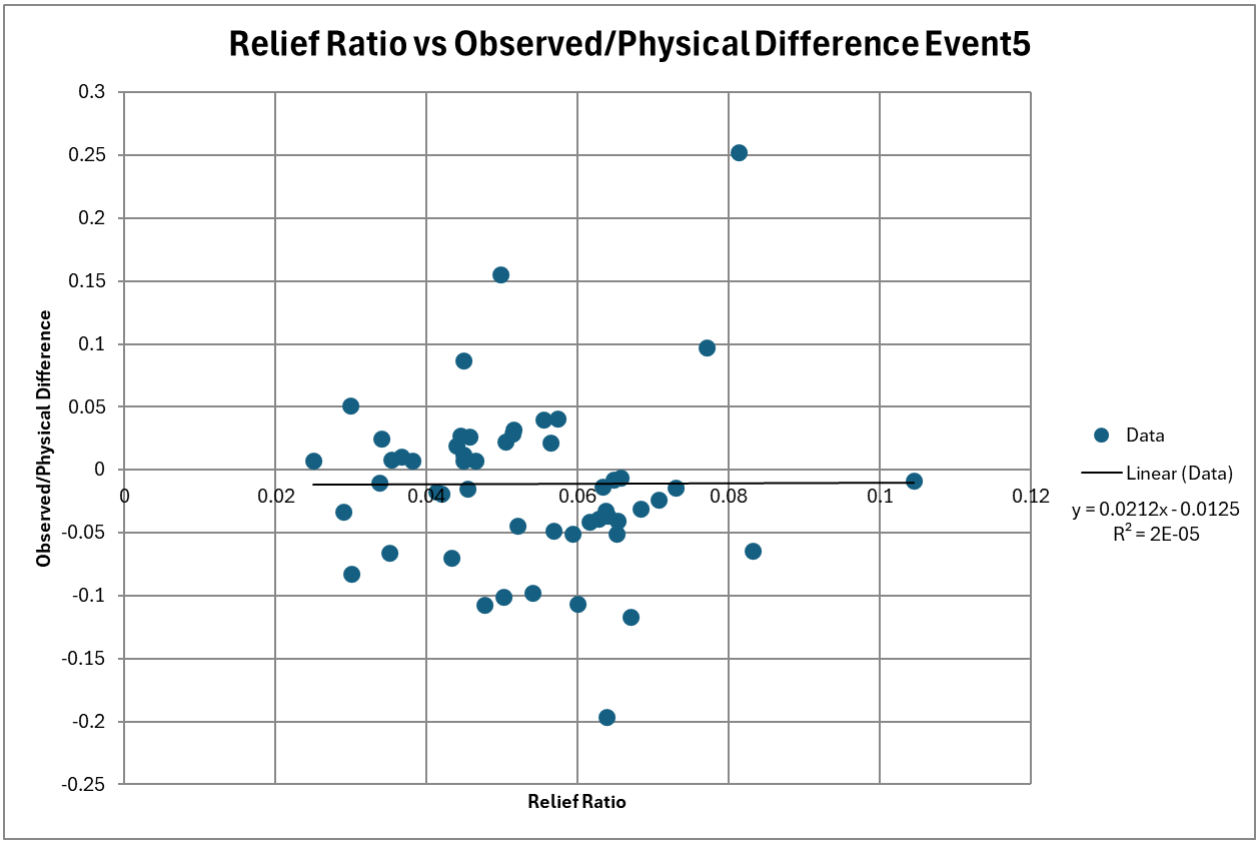

Area (km²) vs Observed/Physical Difference Event3
Observed/Physical Difference
Area (km²)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = -4E-06x + 0.1133
R² = 0.0003

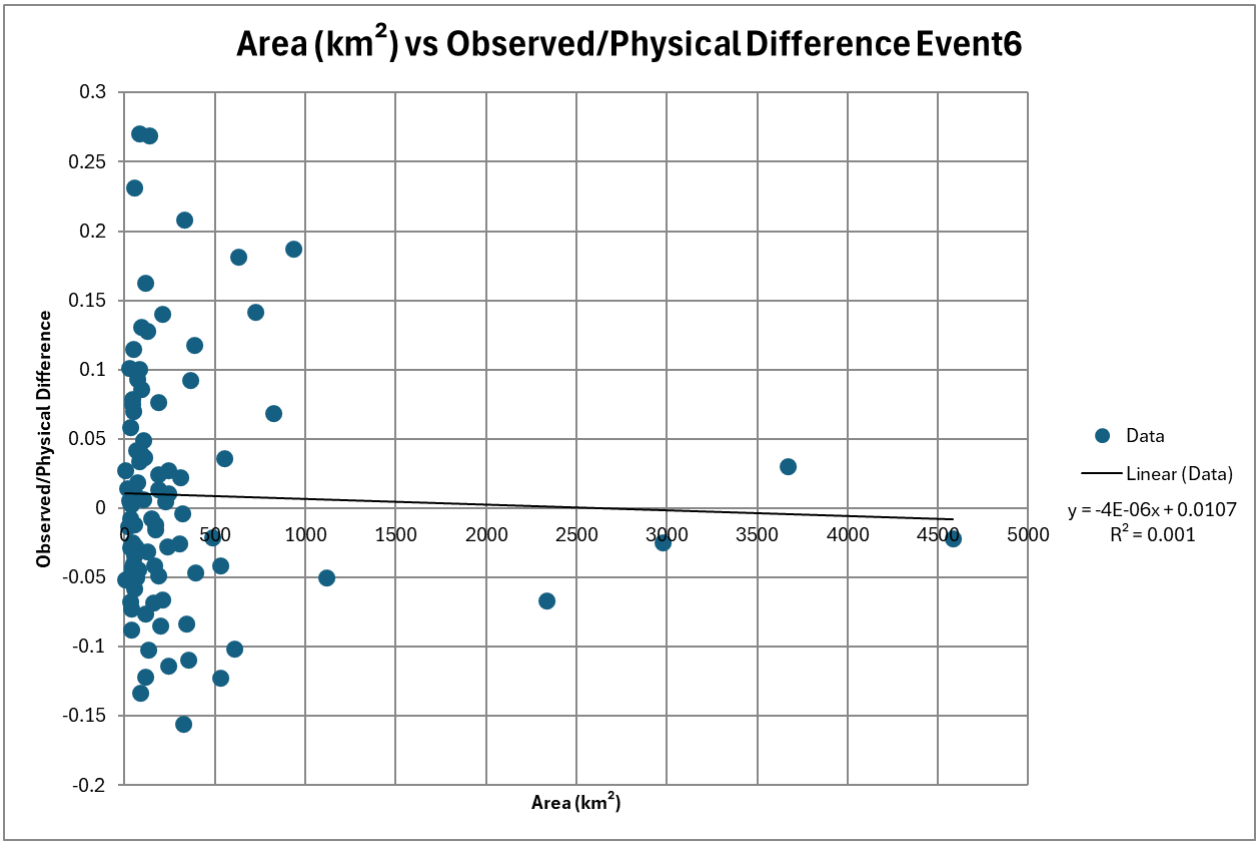

Relief Ratio vs Observed/Physical Difference Event3
Observed/Physical Difference
Relief Ratio
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = 0.6447x + 0.075
R² = 0.0098

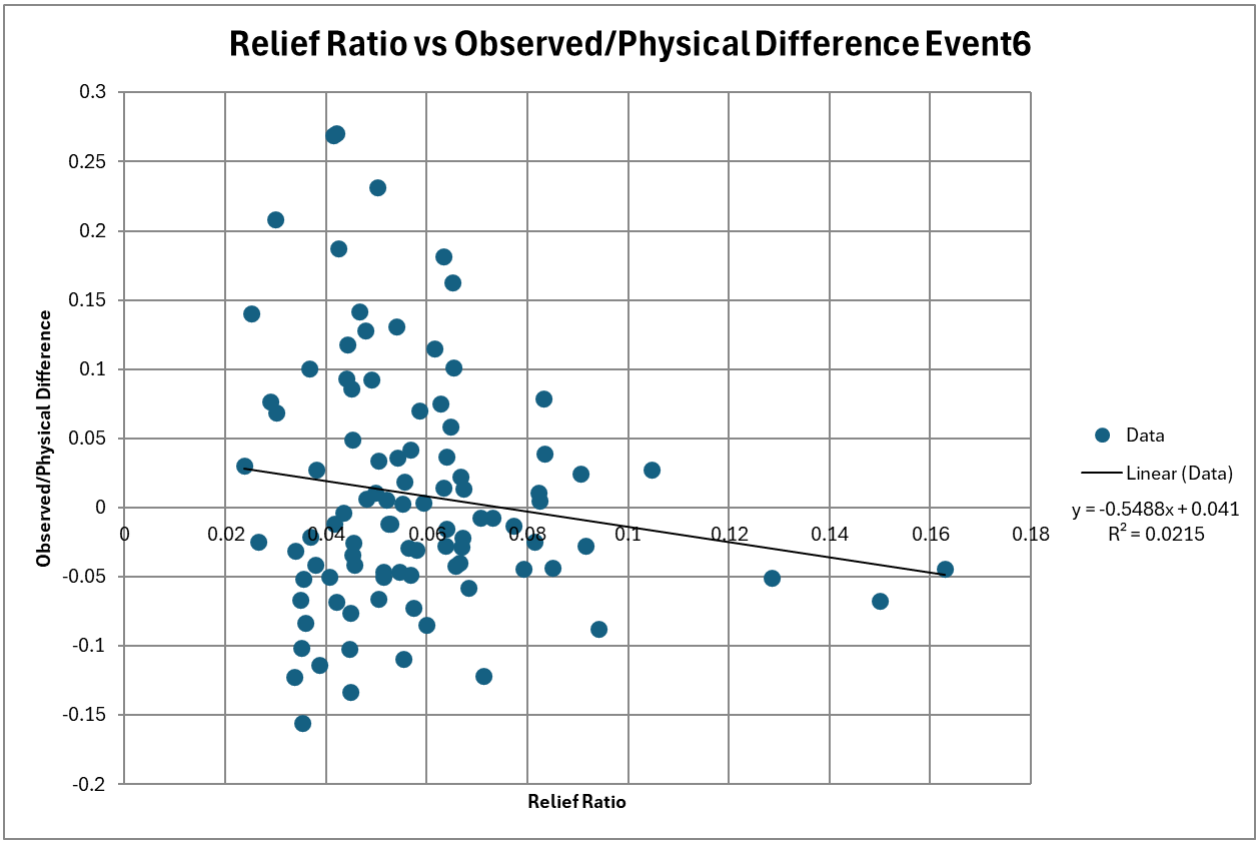

Area (km²) vs Observed/Physical Difference Event4
Observed/Physical Difference
Area (km²)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
100
200
300
400
500
600
700
800
900
Data
Linear (Data)
y = -8E-06x + 0.0083
R² = 6E-05

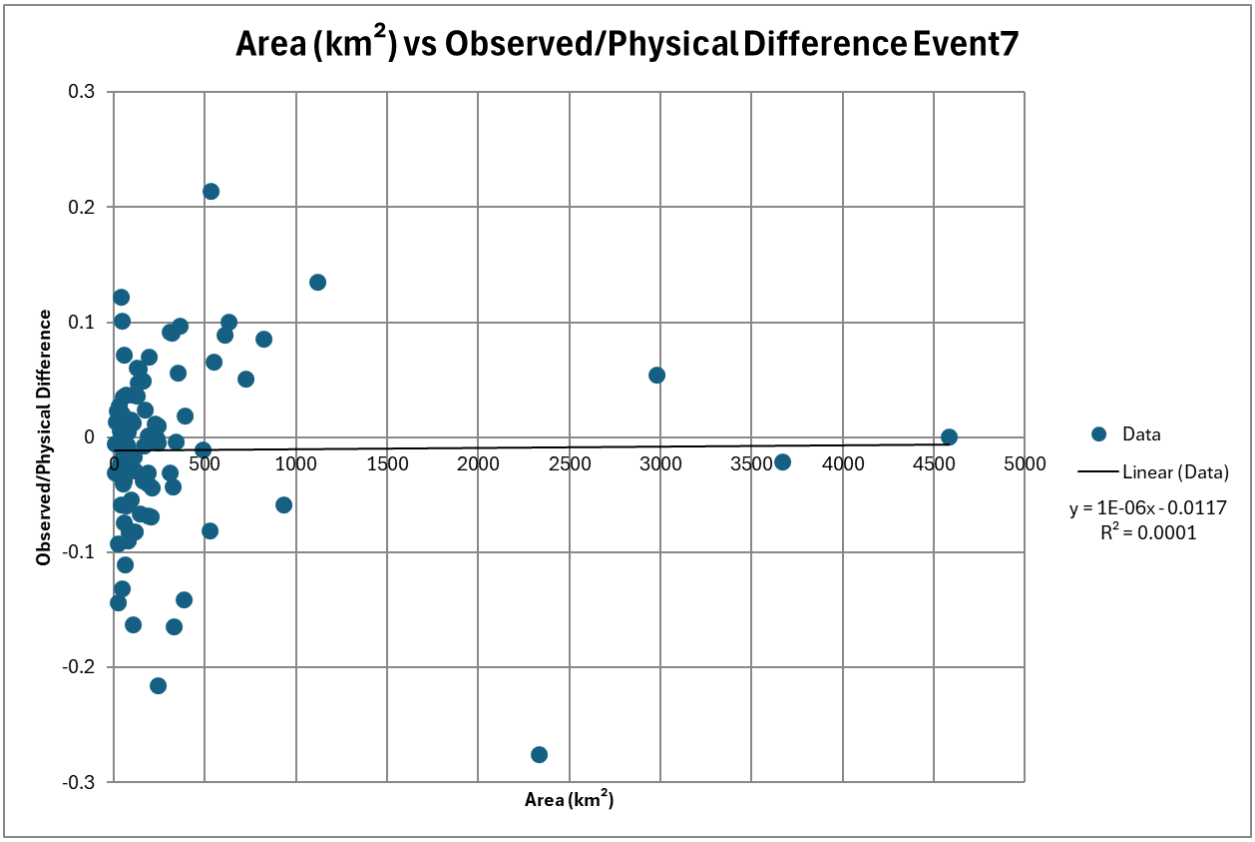

Relief Ratio vs Observed/Physical Difference Event4
Observed/Physical Difference
Relief Ratio
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
0.02
0.04
0.06
0.08
0.1
0.12
Data
Linear (Data)
y = -0.2883x + 0.0224
R² = 0.0005

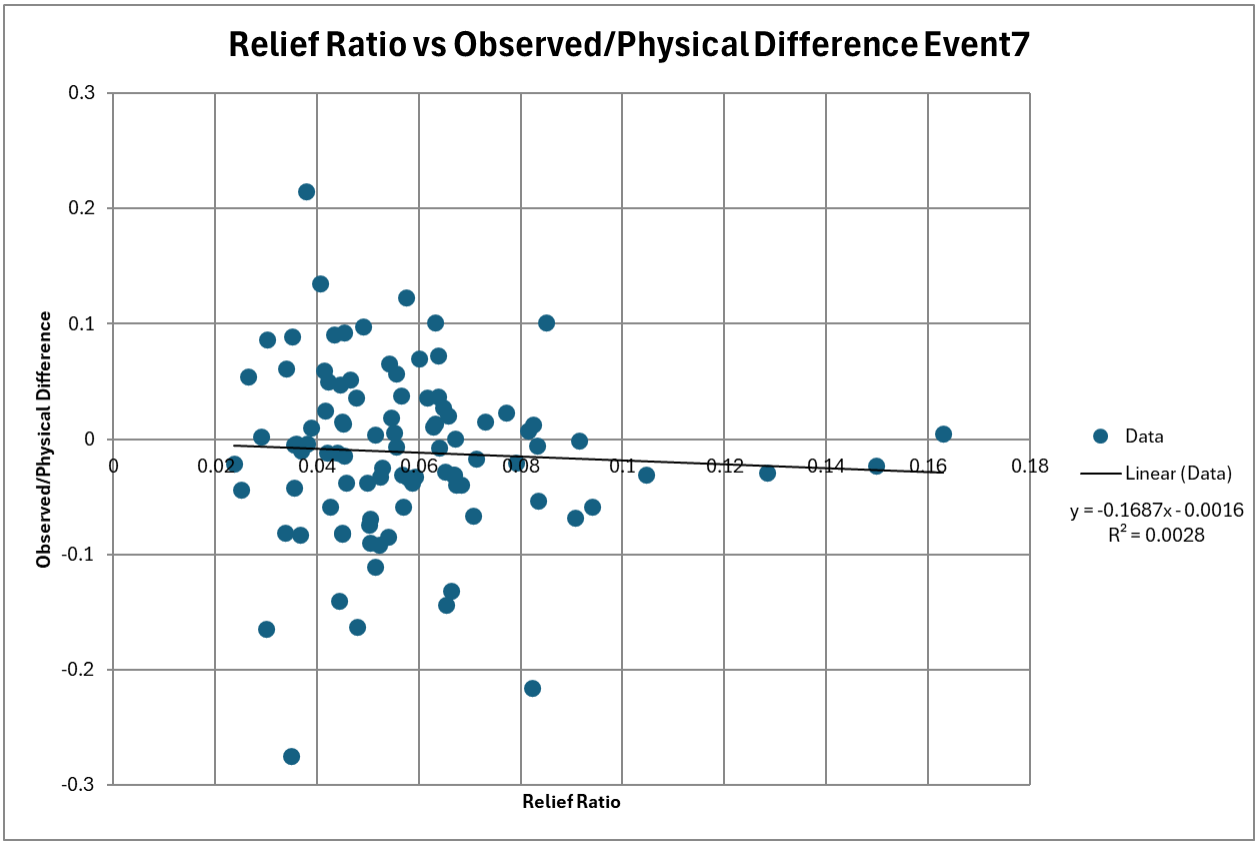

Area (km²) vs Observed/Physical Difference Event5
Observed/Physical Difference
Area (km²)
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
100
200
300
400
500
600
700
800
900
Data
Linear (Data)
y = -7E-05x - 0.0003
R² = 0.0371

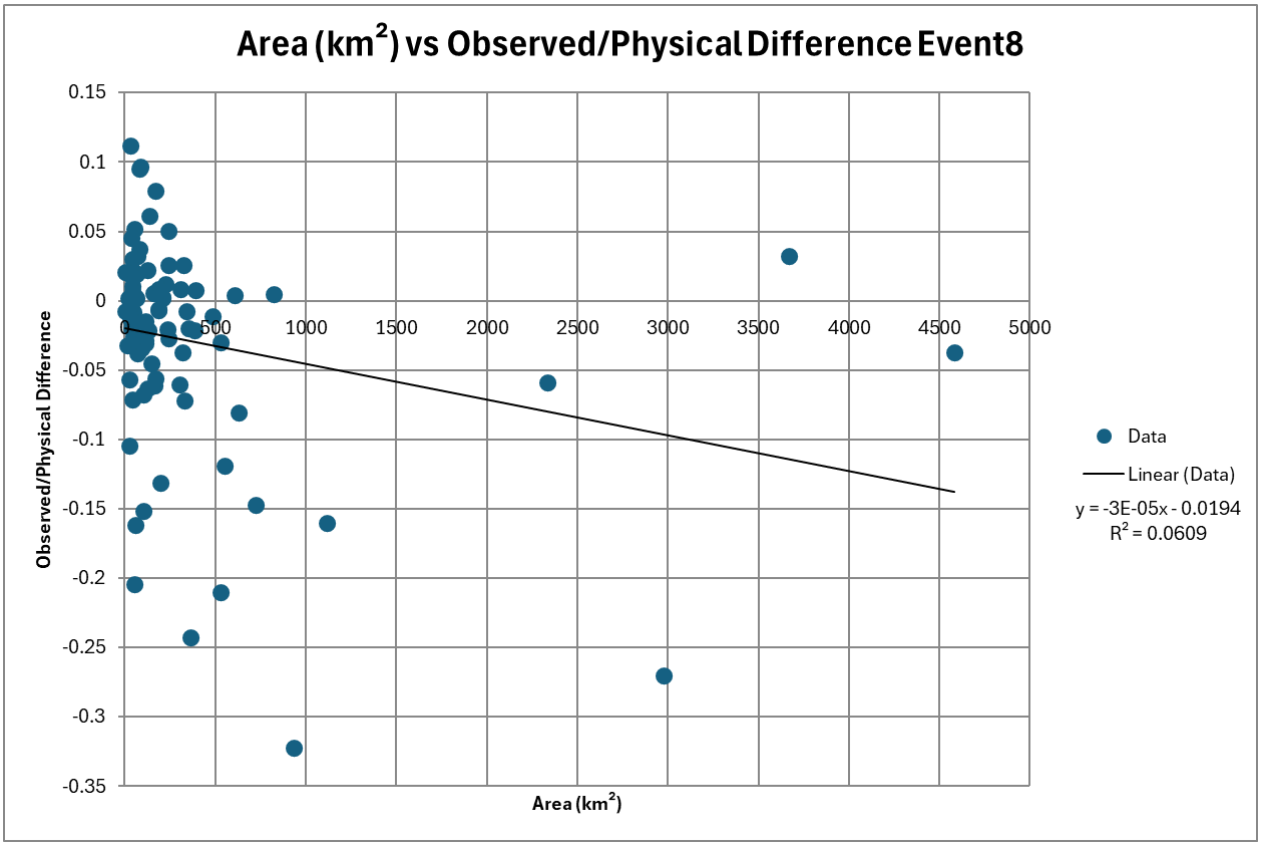

Relief Ratio vs Observed/Physical Difference Event5
Observed/Physical Difference
Relief Ratio
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
0.02
0.04
0.06
0.08
0.1
0.12
Data
Linear (Data)
y = 0.0212x - 0.0125
R² = 2E-05

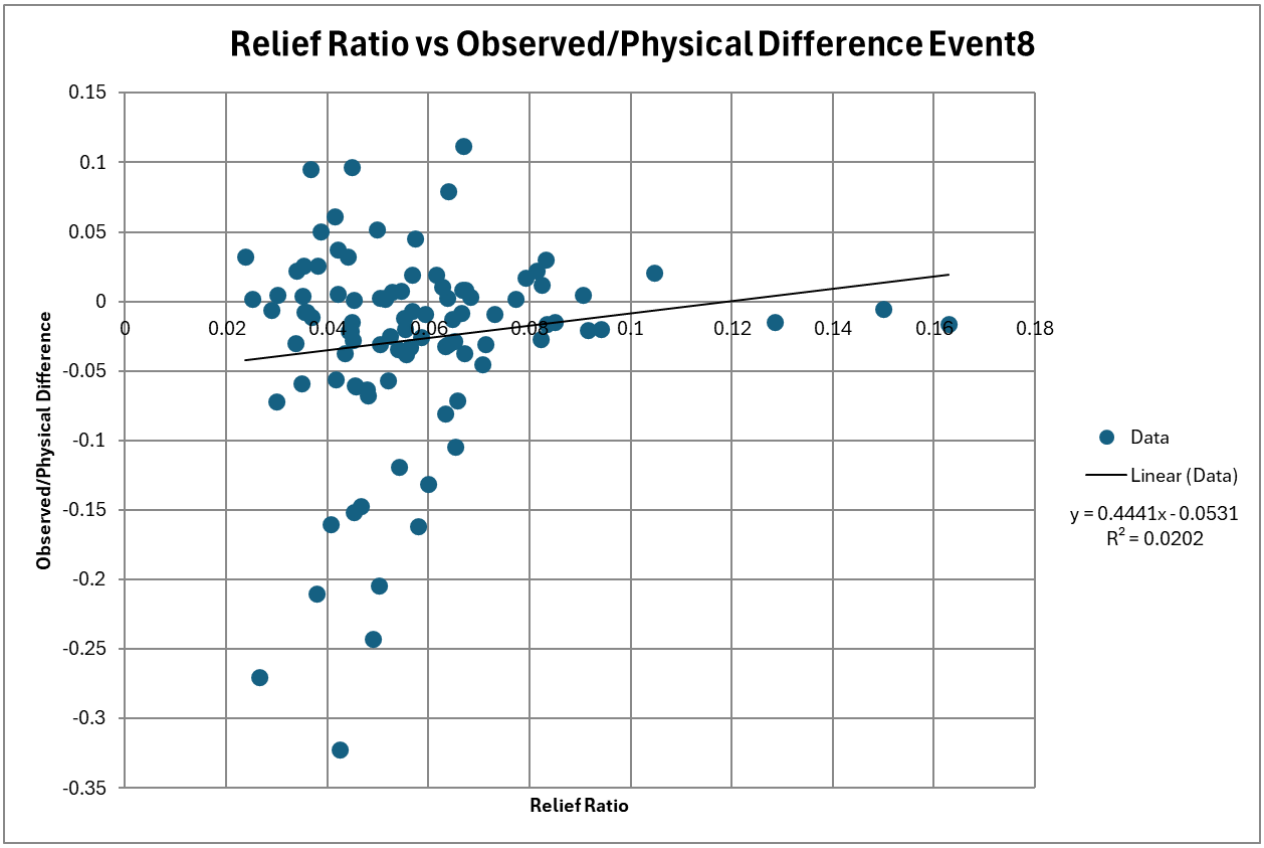

Area (km²) vs Observed/Physical Difference Event6
Observed/Physical Difference
Area (km²)
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = -4E-06x + 0.0107
R² = 0.001

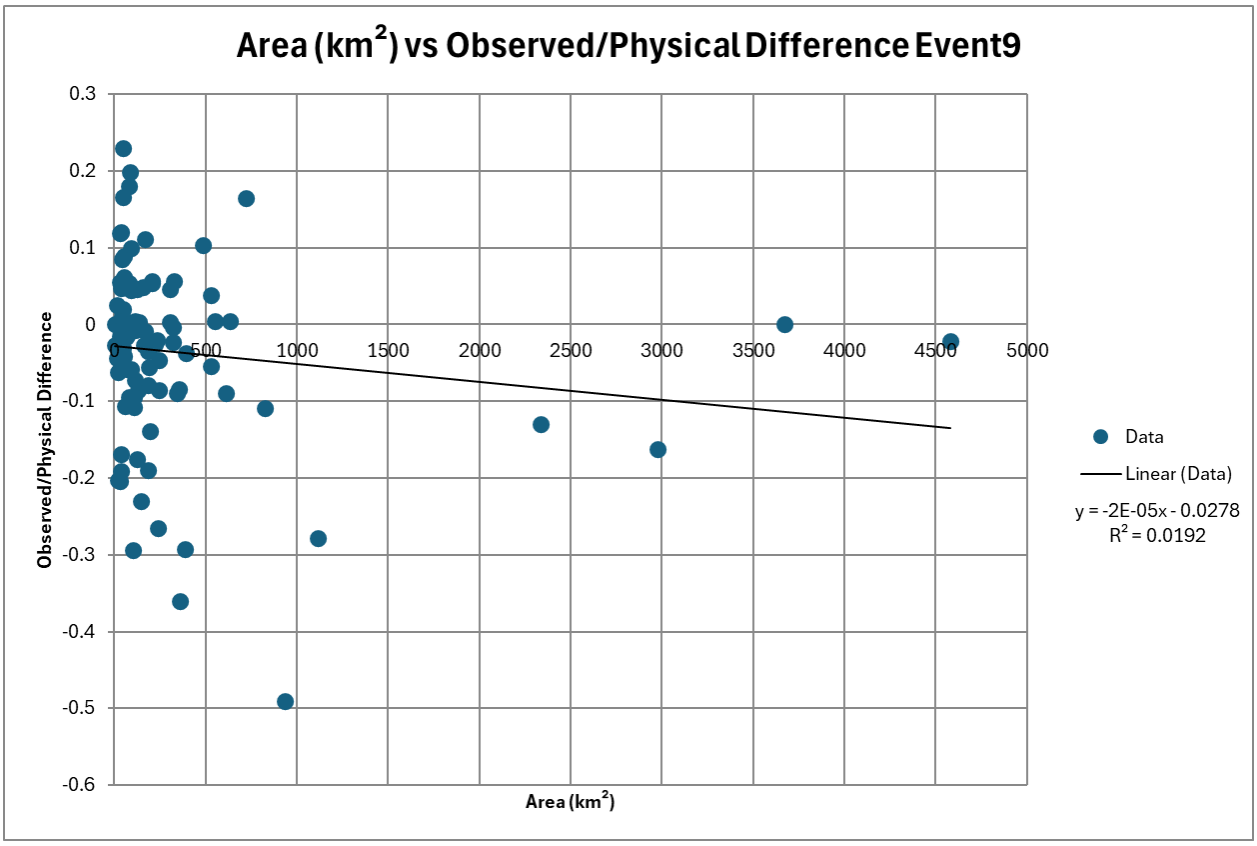

Relief Ratio vs Observed/Physical Difference Event6
Observed/Physical Difference
Relief Ratio
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = -0.5488x + 0.041
R² = 0.0215

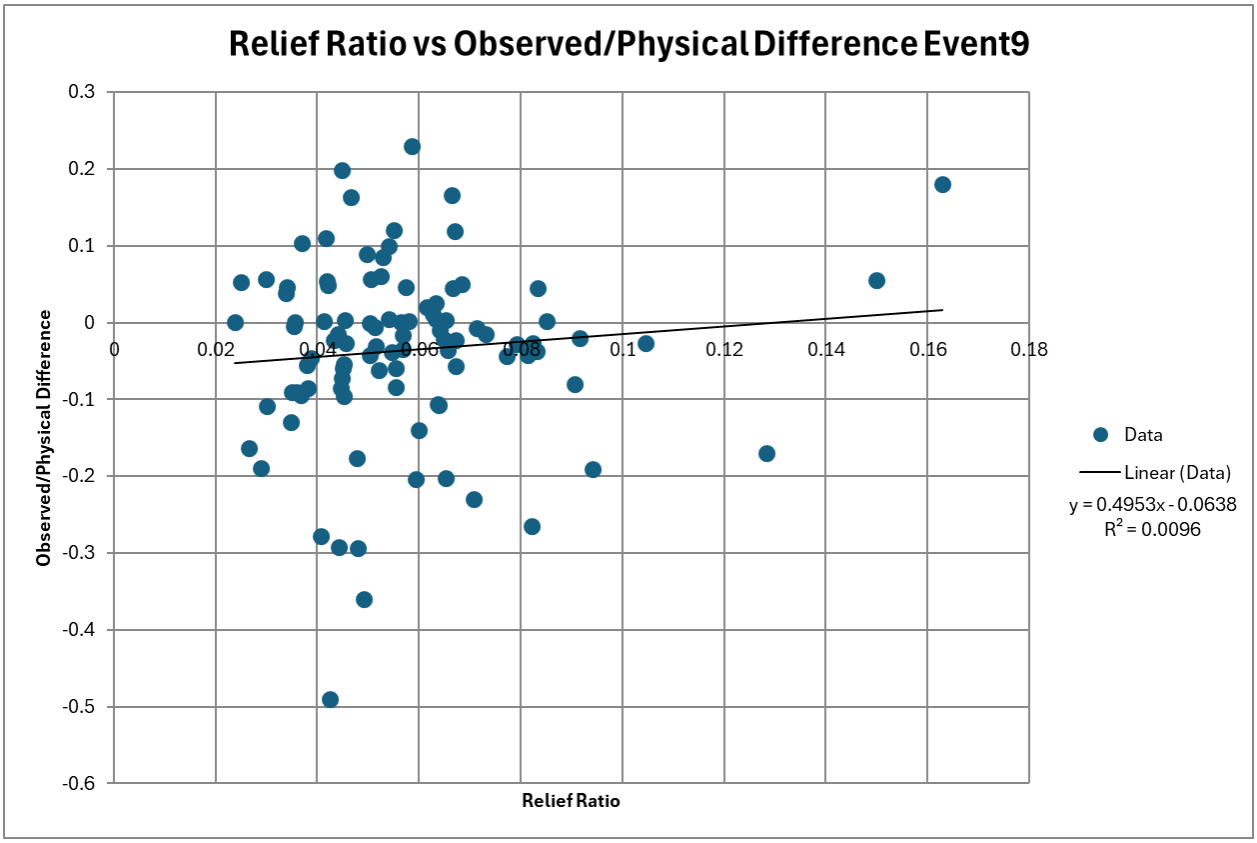

Area (km²) vs Observed/Physical Difference Event7
Observed/Physical Difference
Area (km²)
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = 1E-06x - 0.0117
R² = 0.0001

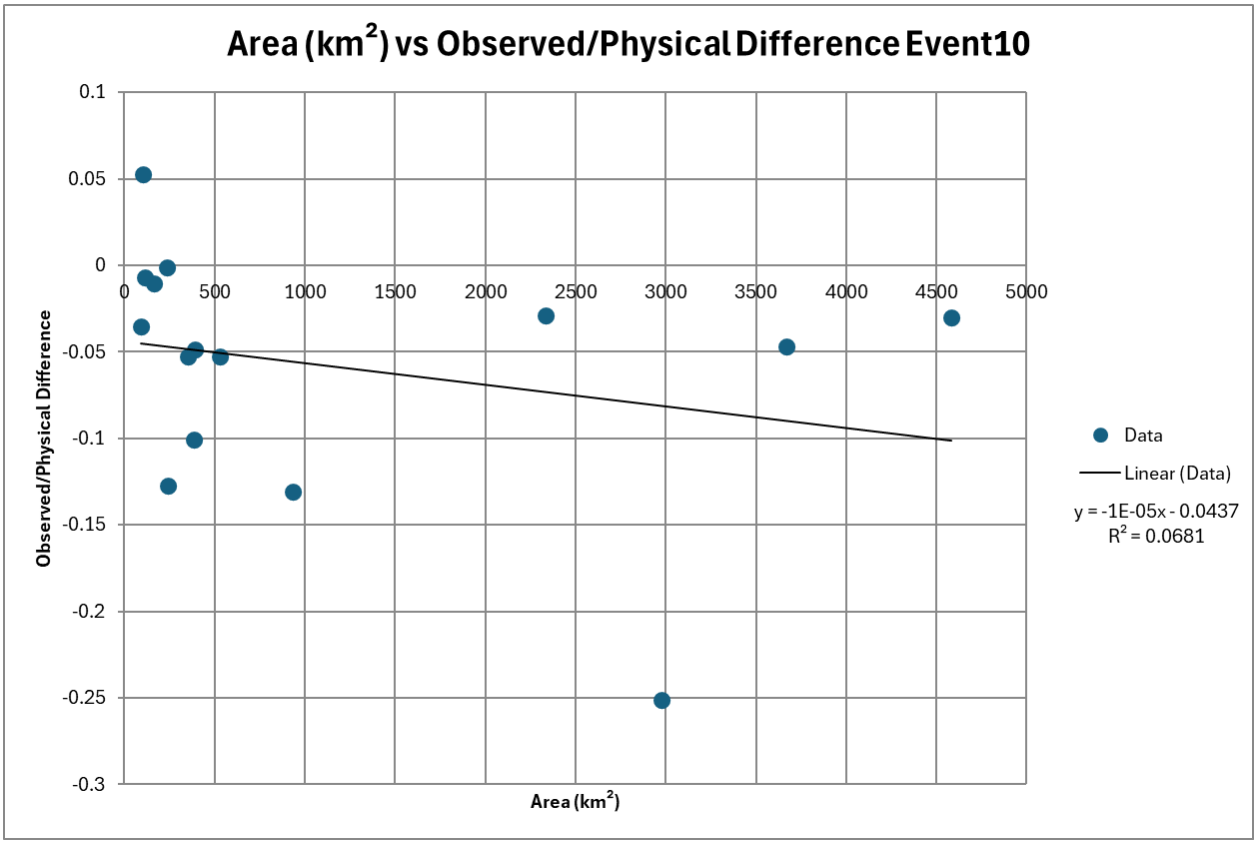

Relief Ratio vs Observed/Physical Difference Event7
Observed/Physical Difference
Relief Ratio
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = -0.1687x - 0.0016
R² = 0.0028

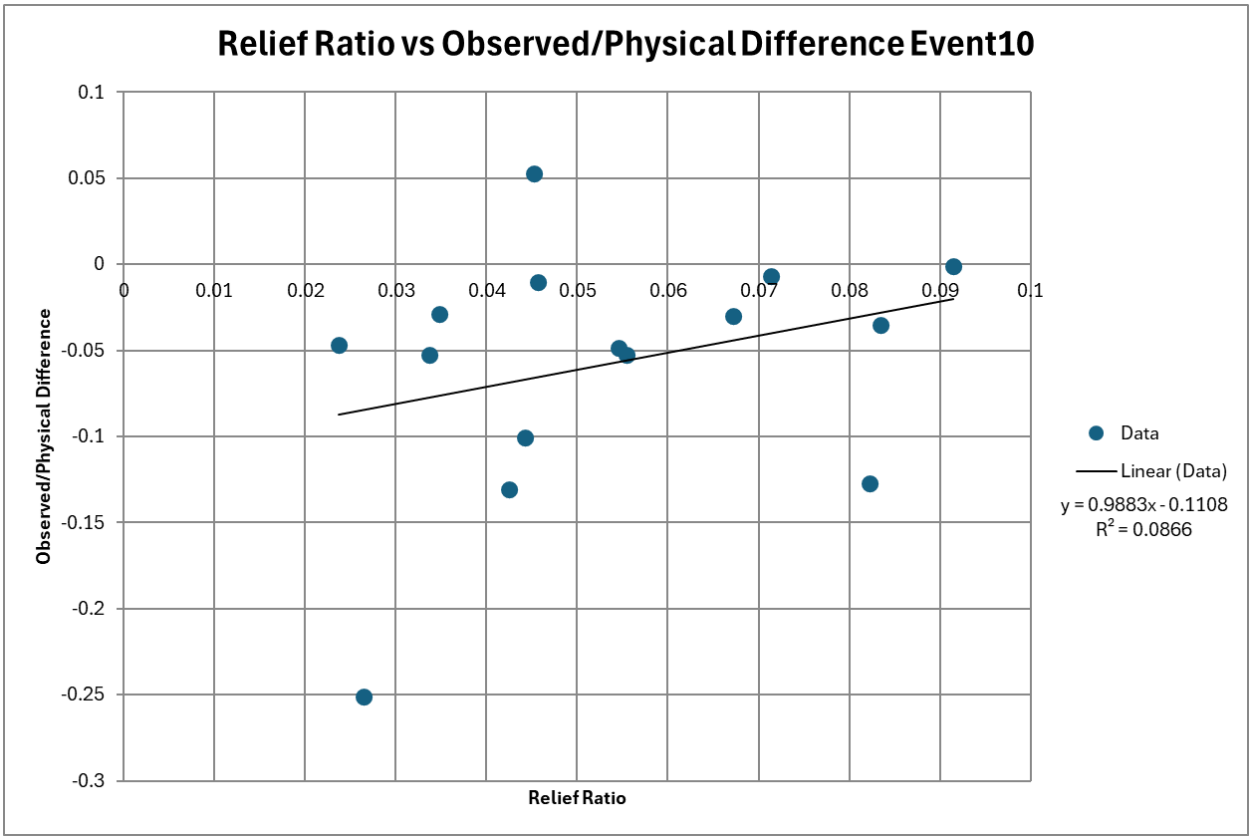

Area (km²) vs Observed/Physical Difference Event8
Observed/Physical Difference
Area (km²)
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
-0.35
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = -3E-05x - 0.0194
R² = 0.0609

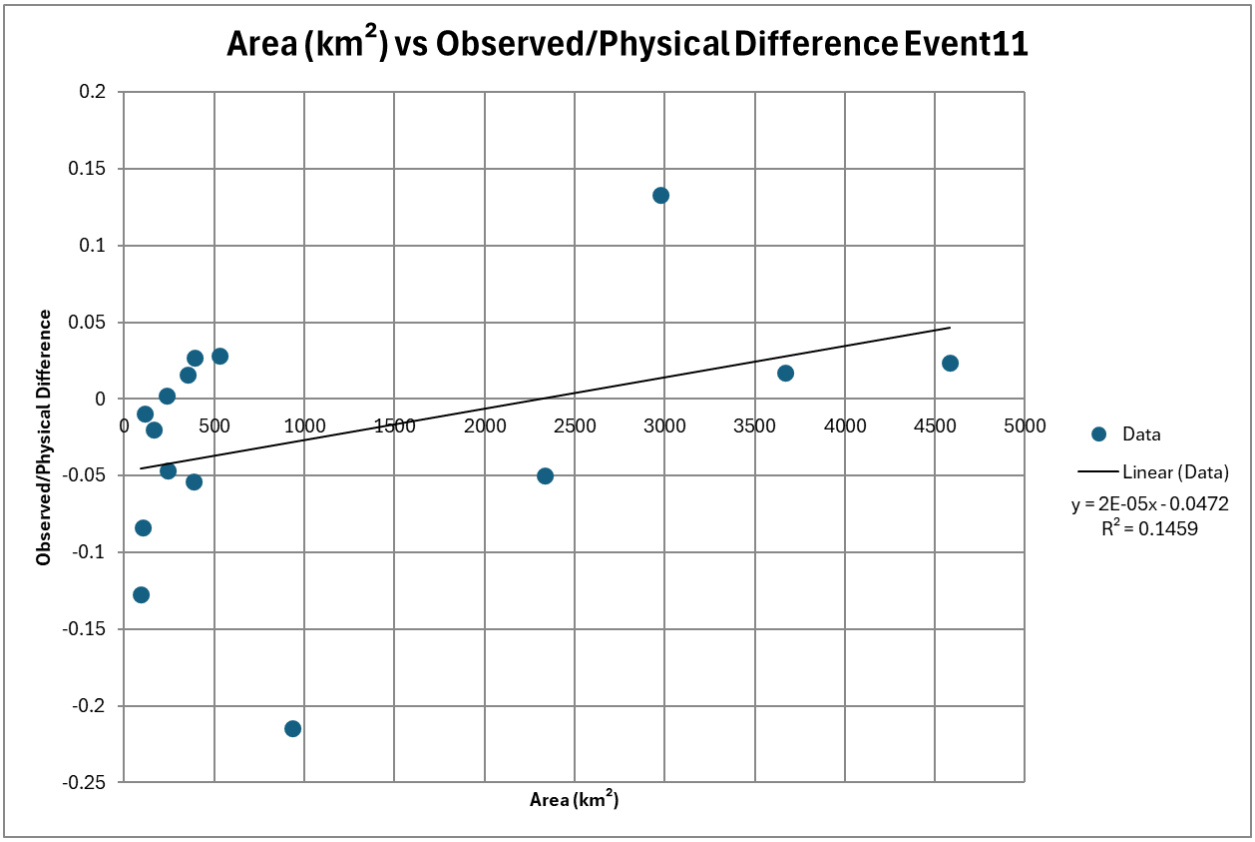

Relief Ratio vs Observed/Physical Difference Event8
Observed/Physical Difference
Relief Ratio
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
-0.35
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = 0.4441x - 0.0531
R² = 0.0202

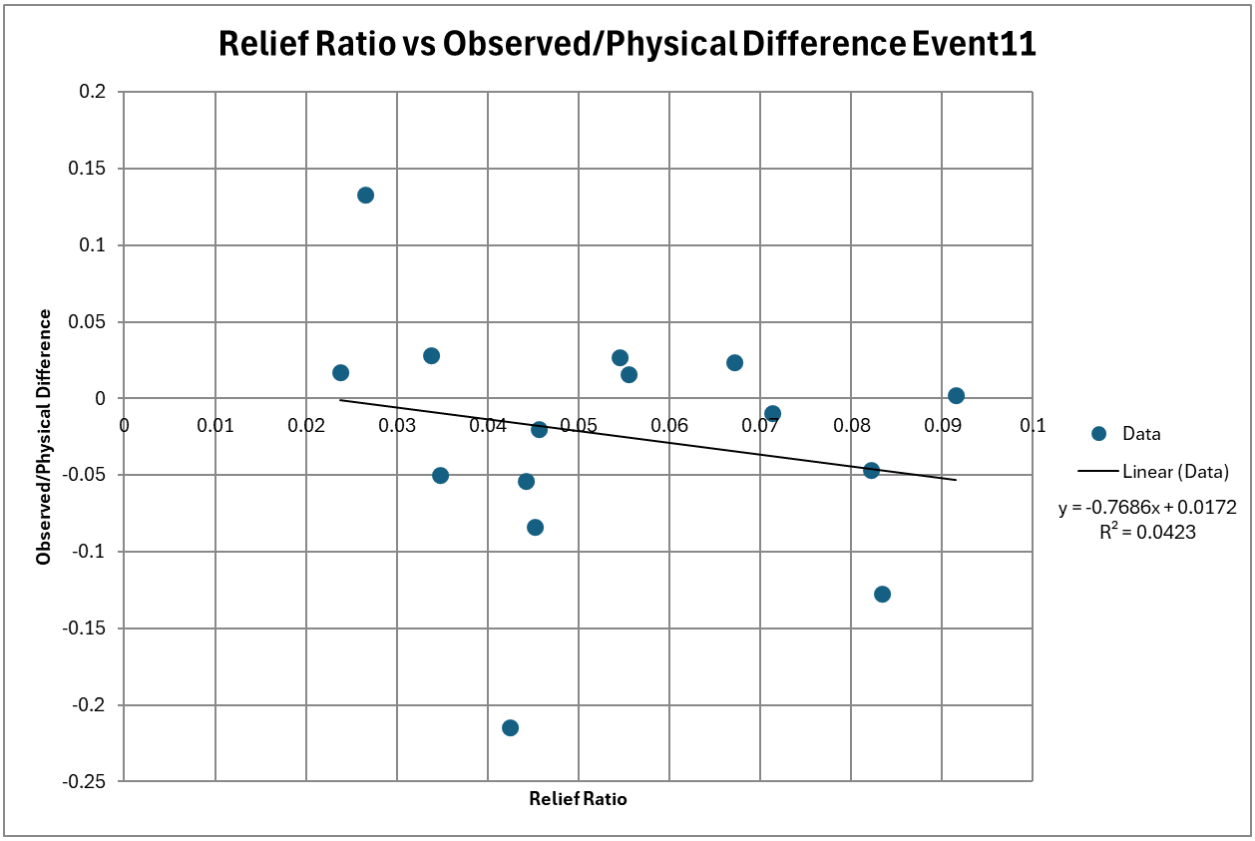

Area (km²) vs Observed/Physical Difference Event9
Observed/Physical Difference
Area (km²)
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = -2E-05x - 0.0278
R² = 0.0192

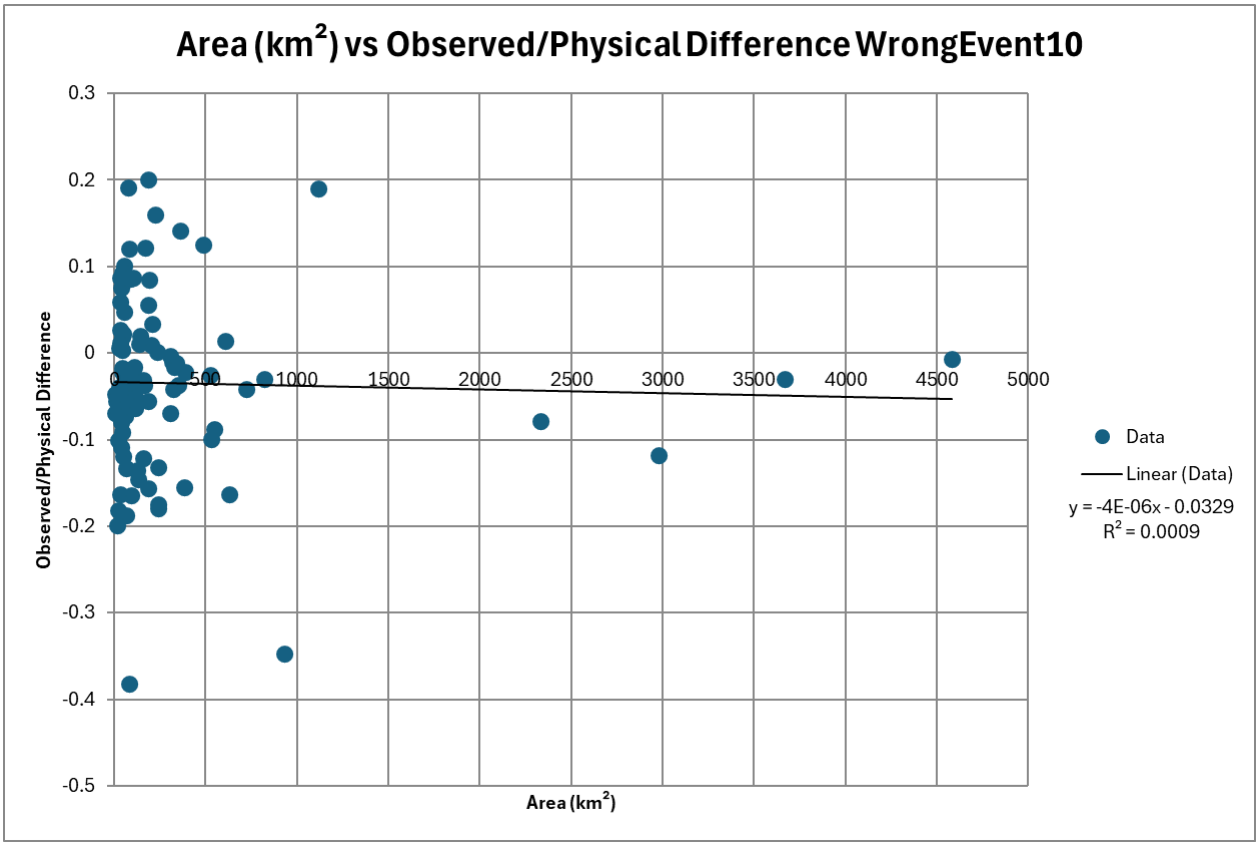

Relief Ratio vs Observed/Physical Difference Event9
Observed/Physical Difference
Relief Ratio
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = 0.4953x - 0.0638
R² = 0.0096

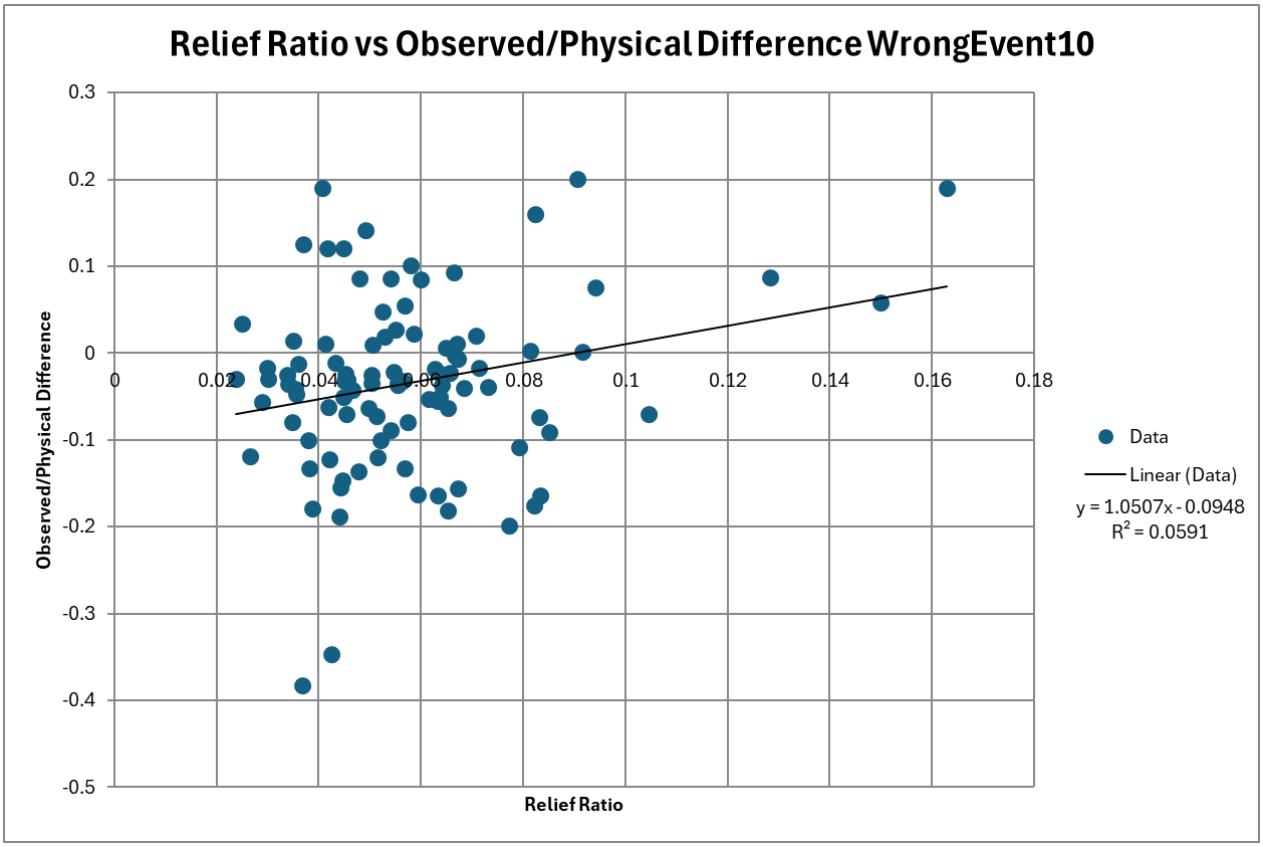

Area (km²) vs Observed/Physical Difference Event10
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Observed/Physical Difference
Area (km²)
Data
Linear (Data)
y = -1E-05x - 0.0437
R² = 0.0681


Relief Ratio vs Observed/Physical Difference Event10
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1
Observed/Physical Difference
Relief Ratio
Data
Linear (Data)
y = 0.9883x - 0.1108
R² = 0.0866

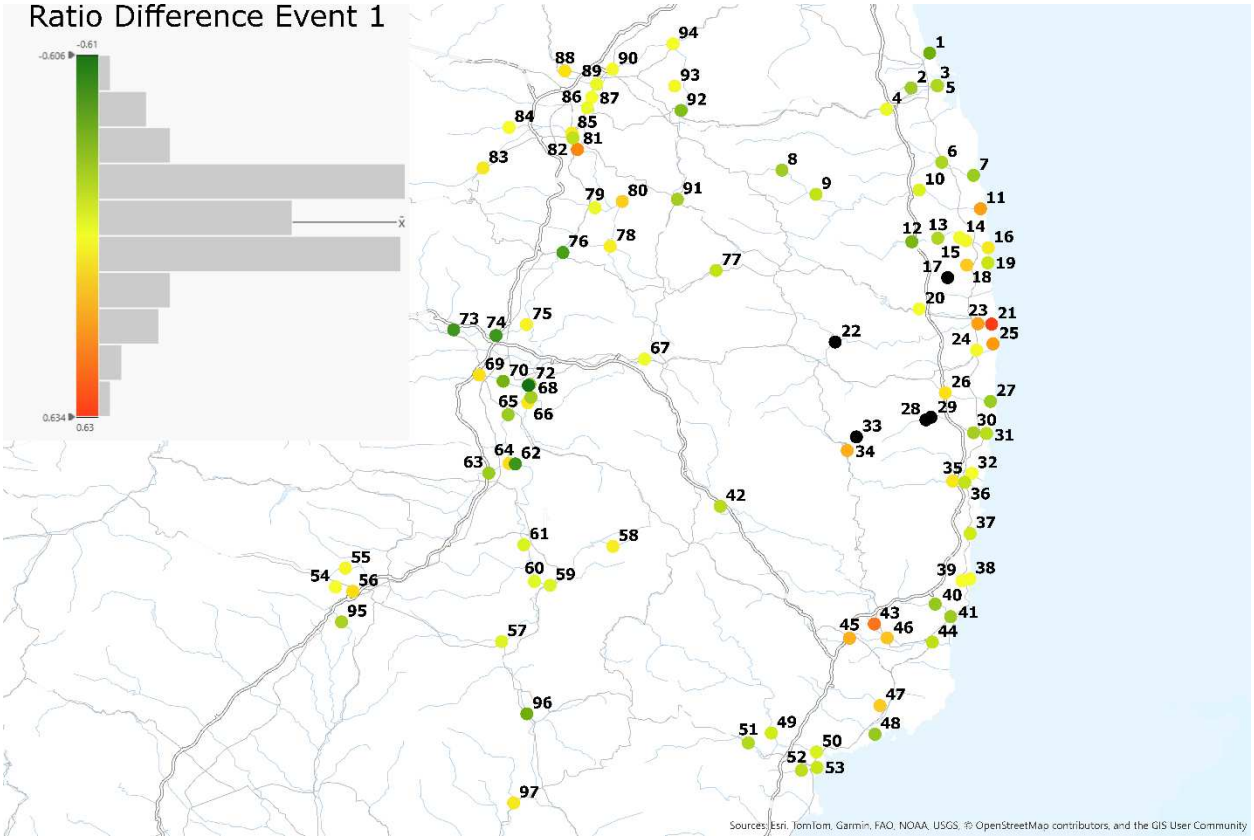

Area (km²) vs Observed/Physical Difference Event11
Observed/Physical Difference
Area (km²)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = 2E-05x - 0.0472
R² = 0.1459

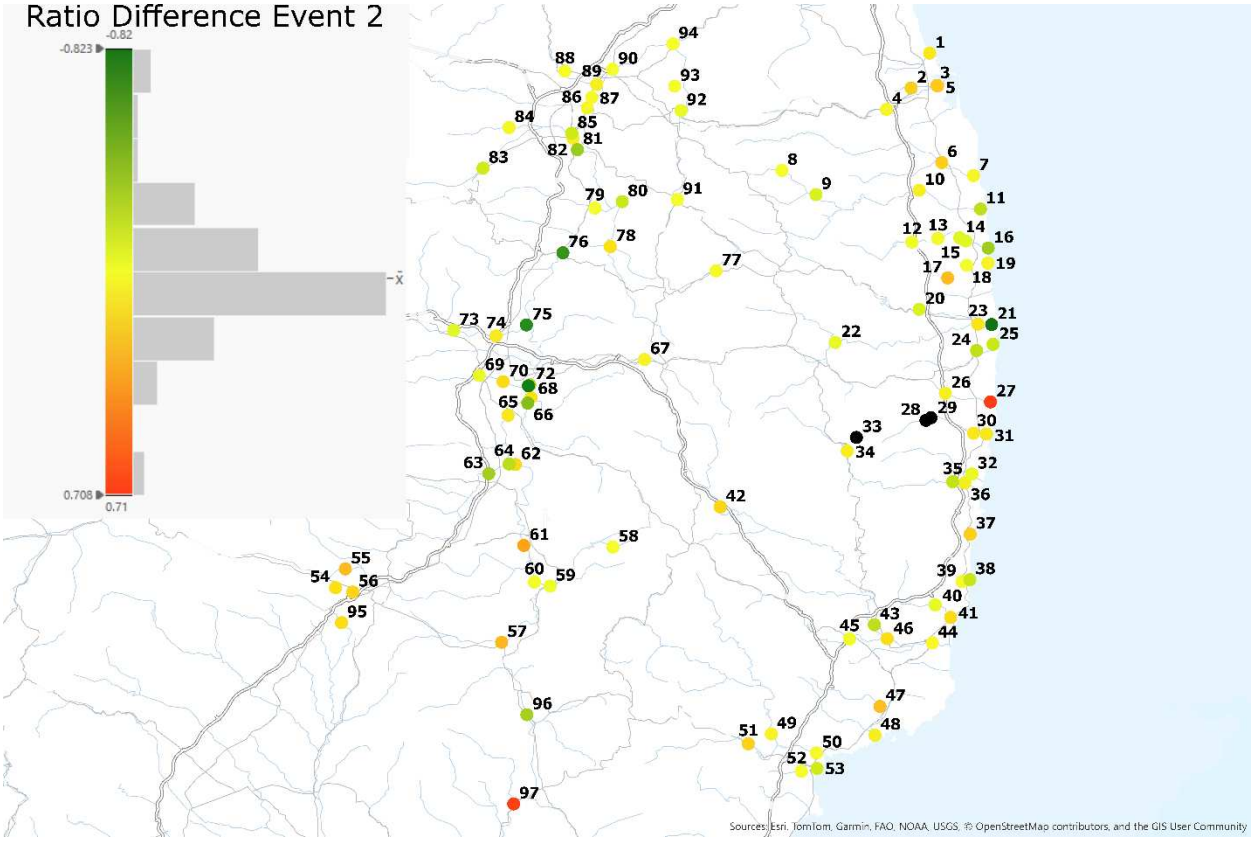

Relief Ratio vs Observed/Physical Difference Event11
Observed/Physical Difference
Relief Ratio
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1
Data
Linear (Data)
y = -0.7686x + 0.0172
R² = 0.0423

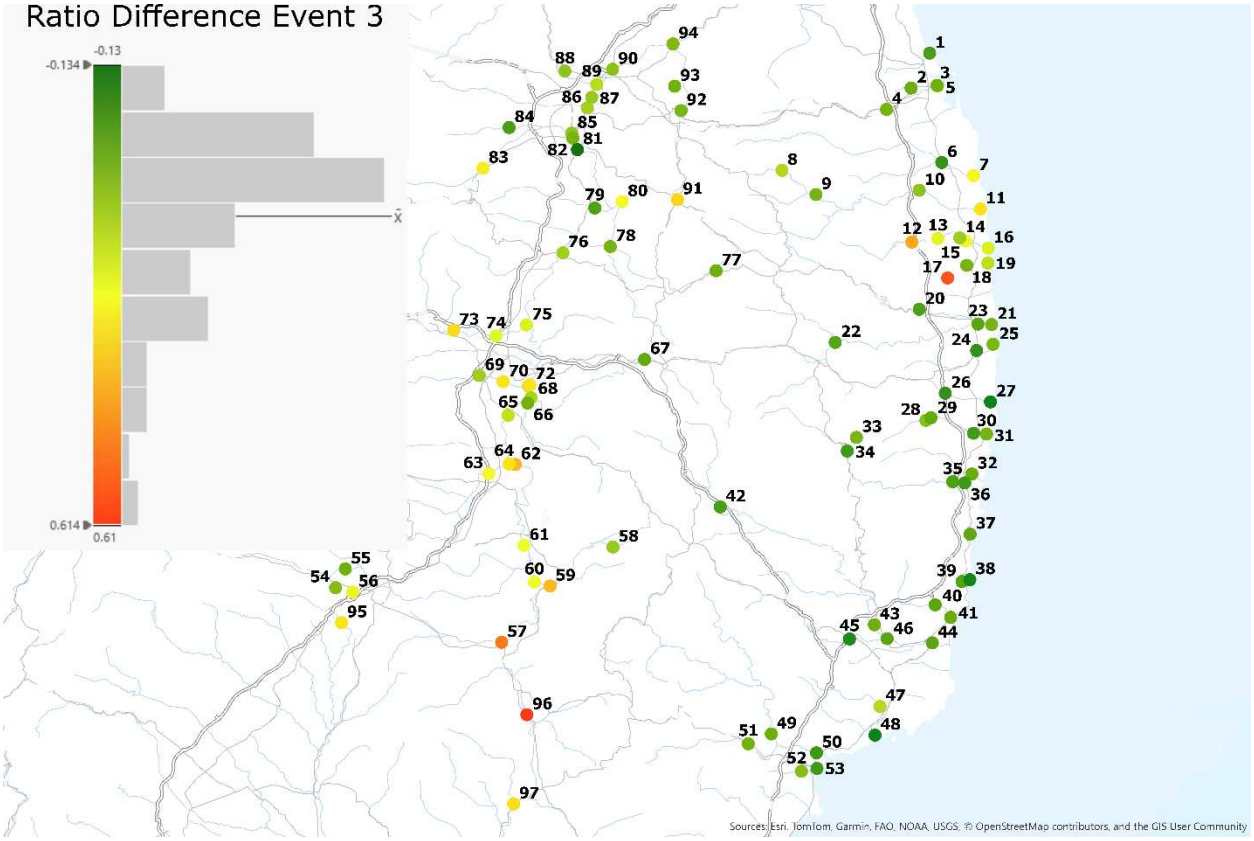

Area (km²) vs Observed/Physical Difference WrongEvent10
Observed/Physical Difference
Area (km²)
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Data
Linear (Data)
y = -4E-06x - 0.0329
R² = 0.0009

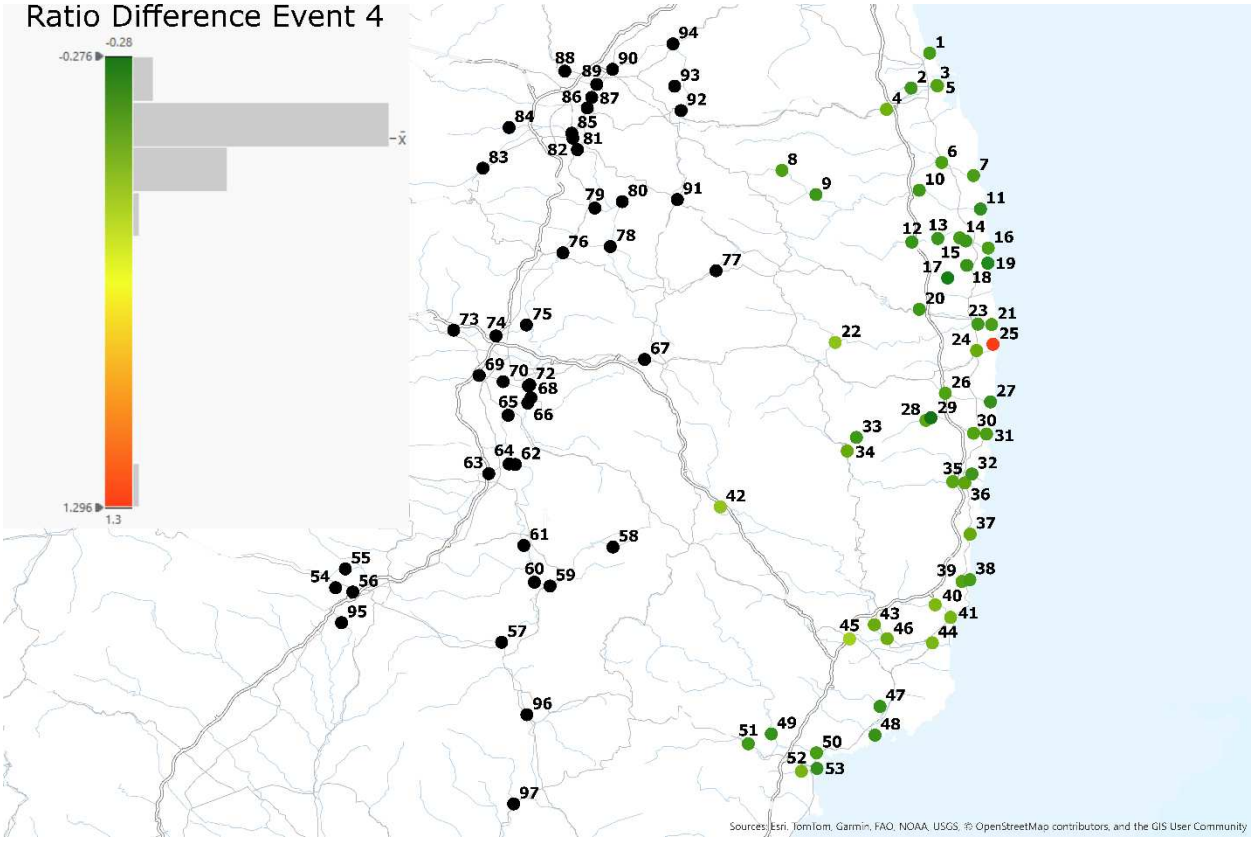

Relief Ratio vs Observed/Physical Difference WrongEvent10
Observed/Physical Difference
Relief Ratio
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
Data
Linear (Data)
y = 1.0507x - 0.0948
R² = 0.0591

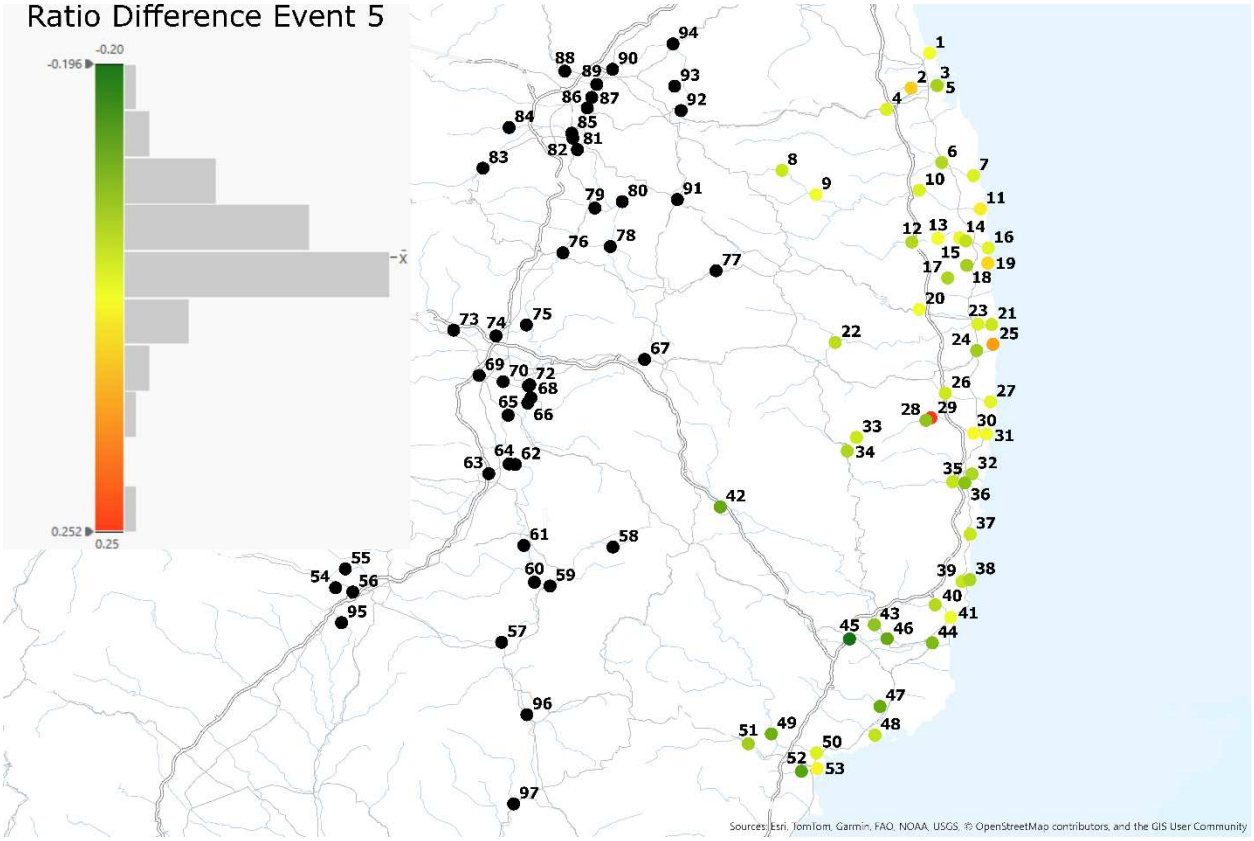
M: Event Analysis Ratio Difference Map 1-11 (Including Incorrect Event 10): Note black points mean no data is available for the event at that point.

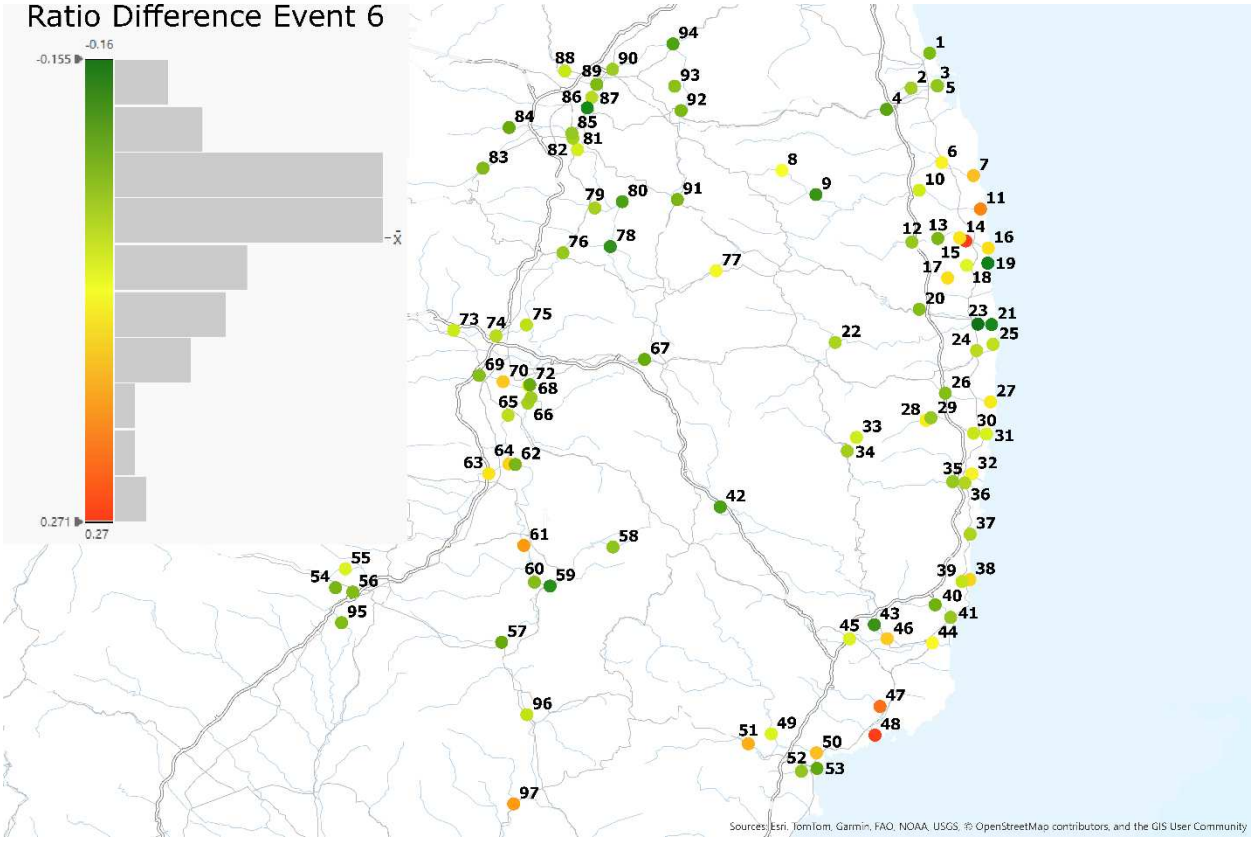


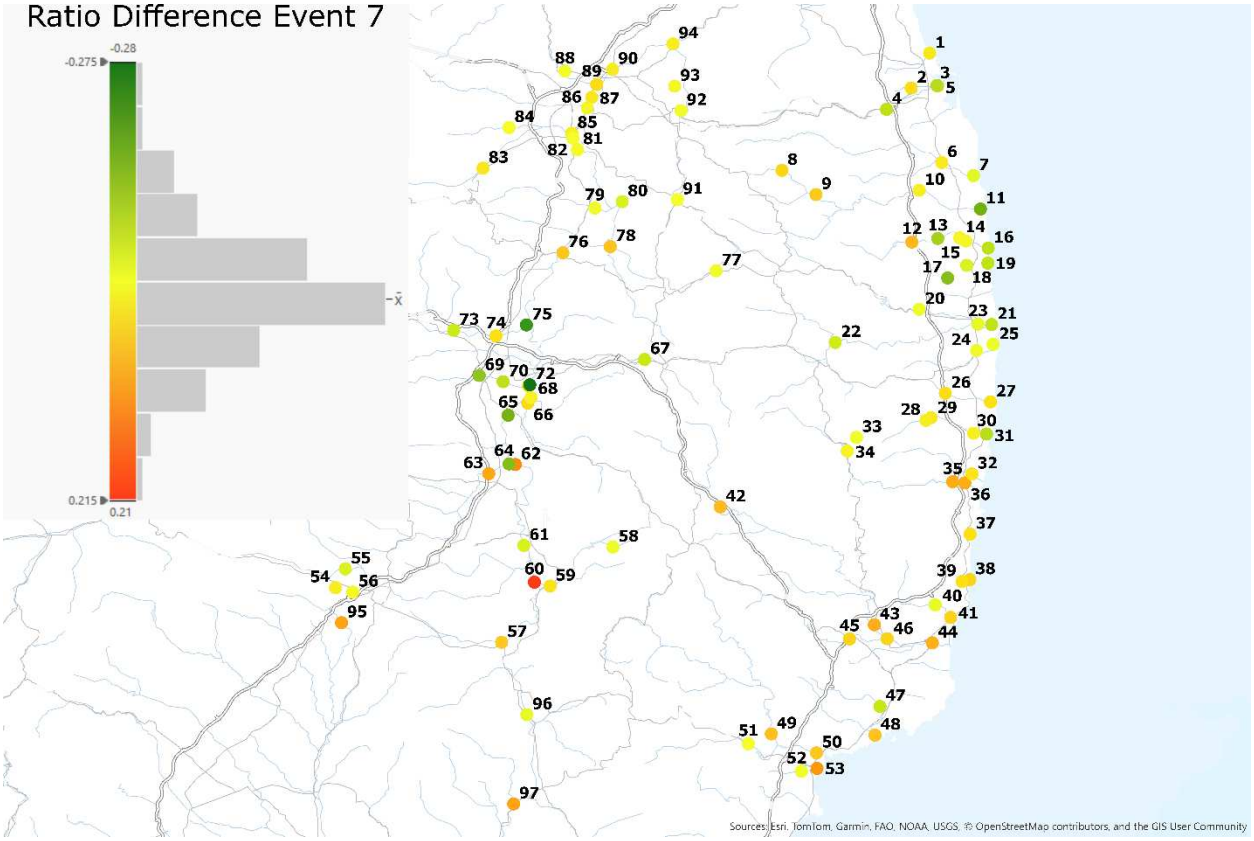

Ratio Difference Event 2
-0.82
-0.823
0.708
0.71
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

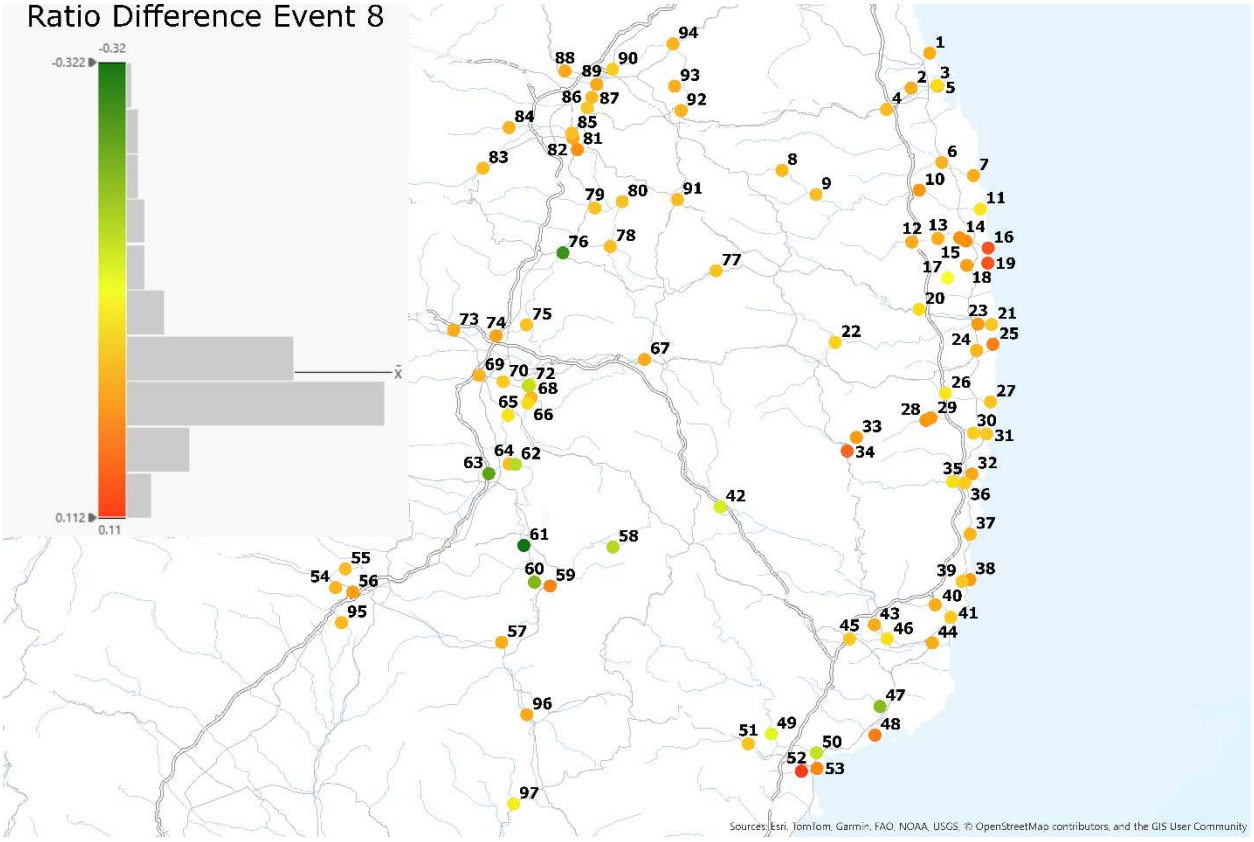

Ratio Difference Event 3
-0.13
-0.134
0.614
0.61
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

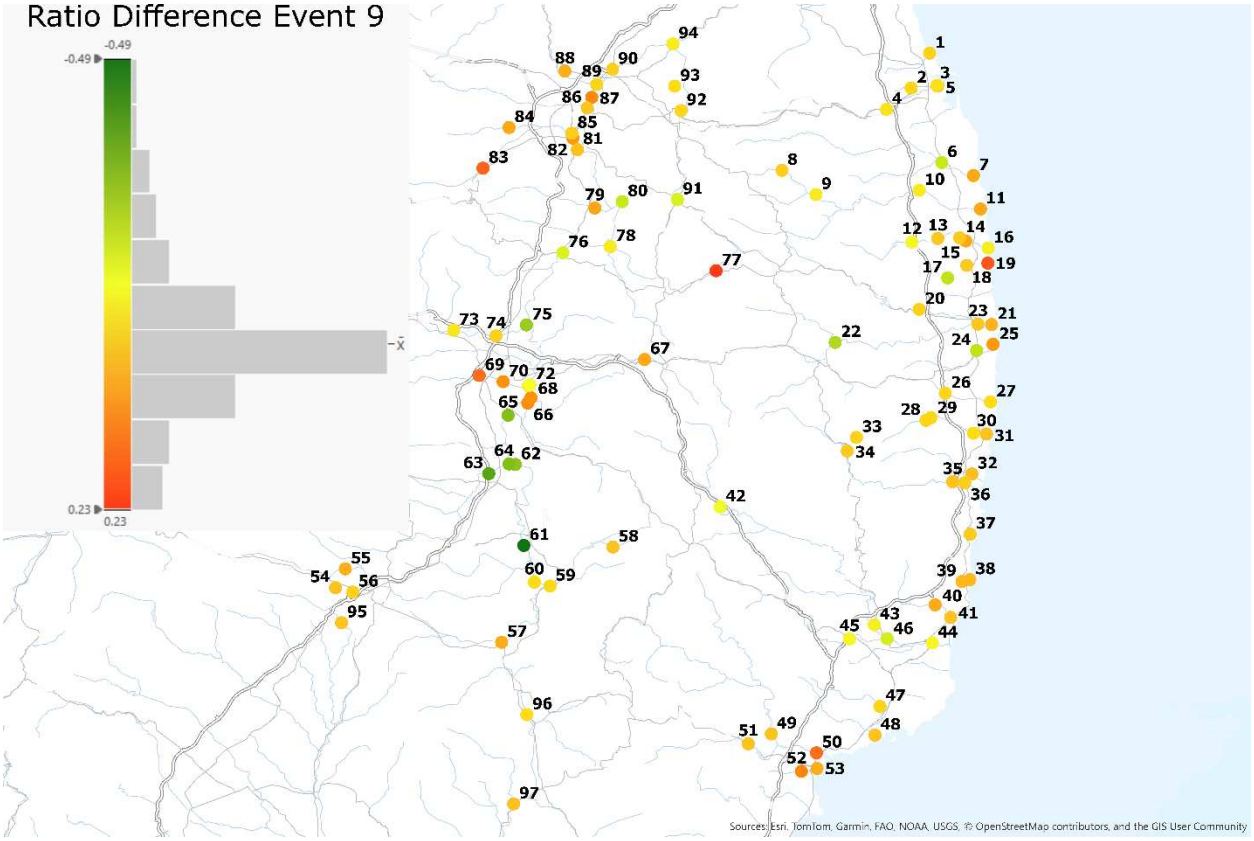

Ratio Difference Event 4
-0.28
-0.276
1.296
1.3
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

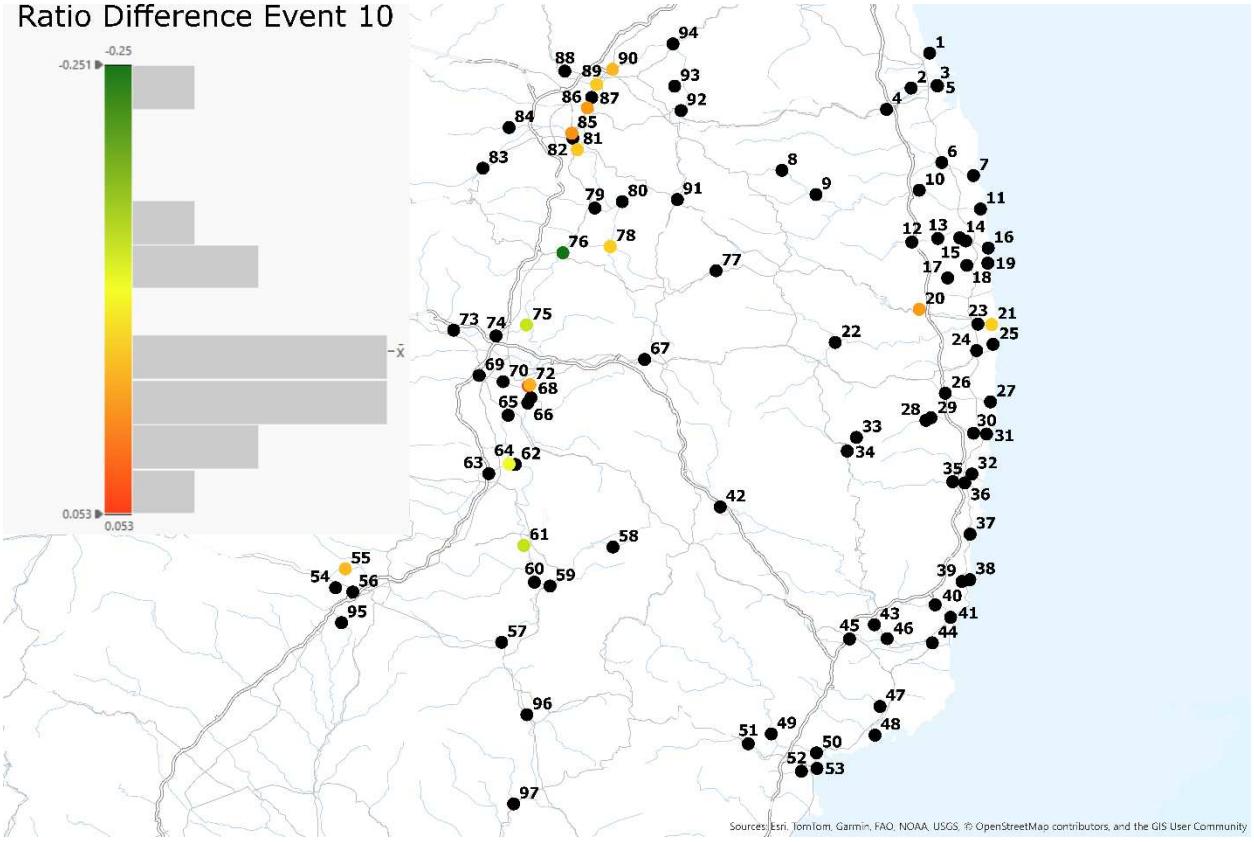

Ratio Difference Event 5
-0.20
-0.196
0.252
0.25
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

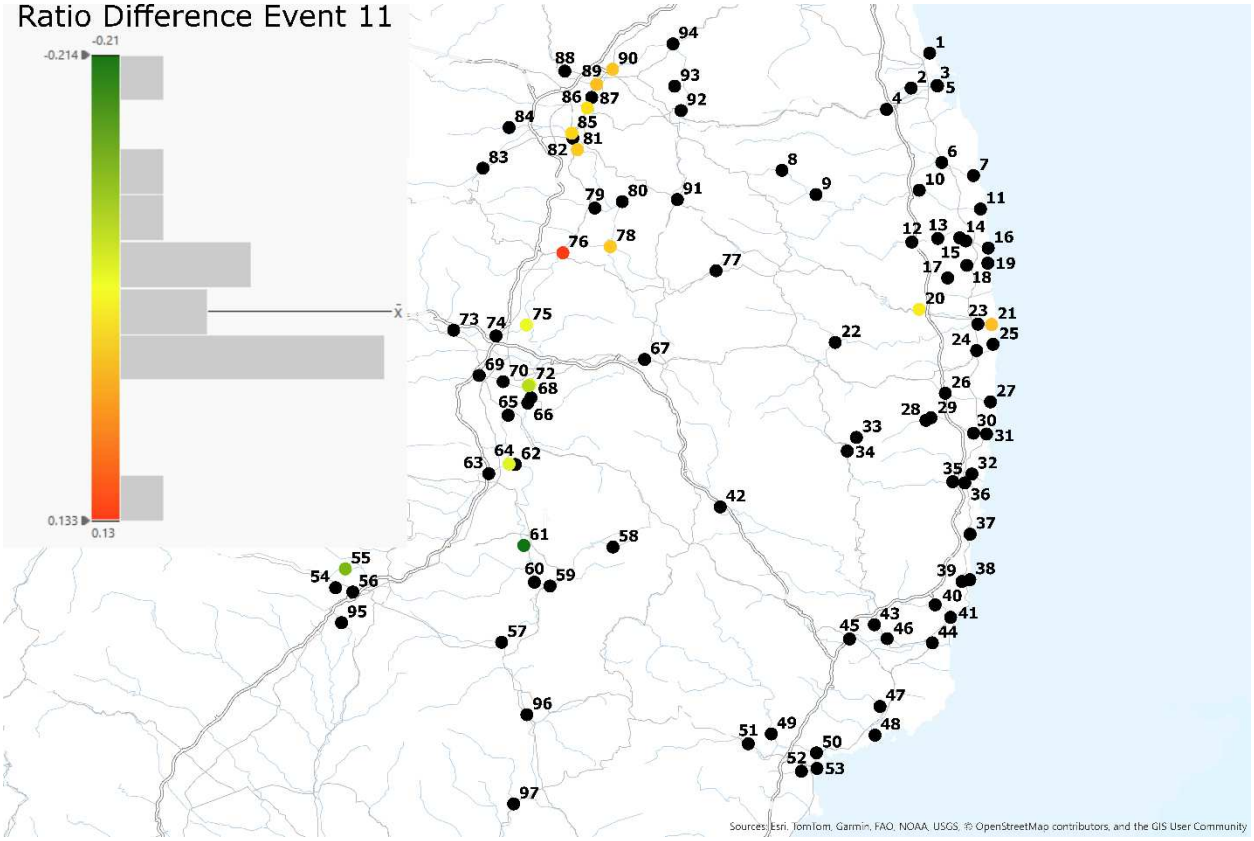

Ratio Difference Event 6
-0.16
-0.155
0.271
0.27
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

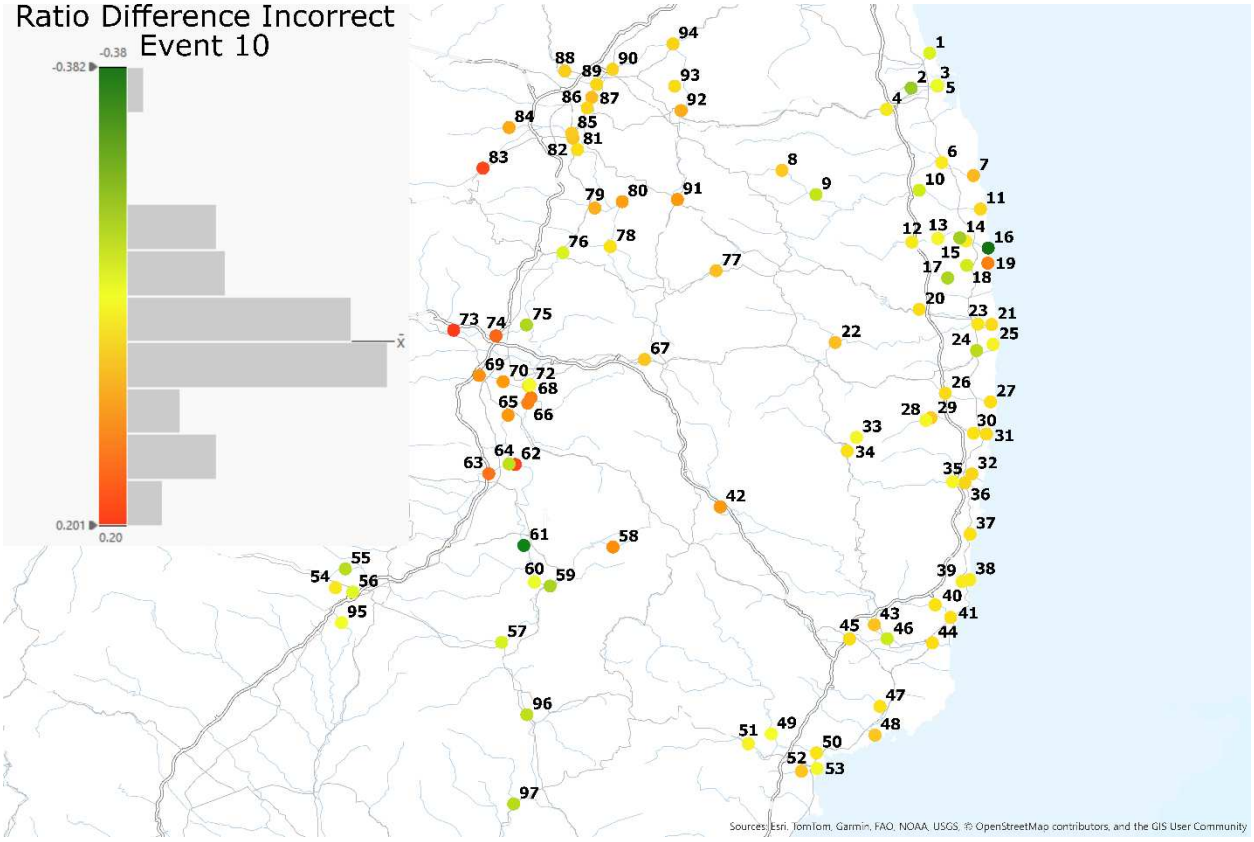

Ratio Difference Event 7
-0.28
-0.275
0.215
0.21
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community


Ratio Difference Event 8
-0.32
-0.322
0.112
0.11
x̄
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

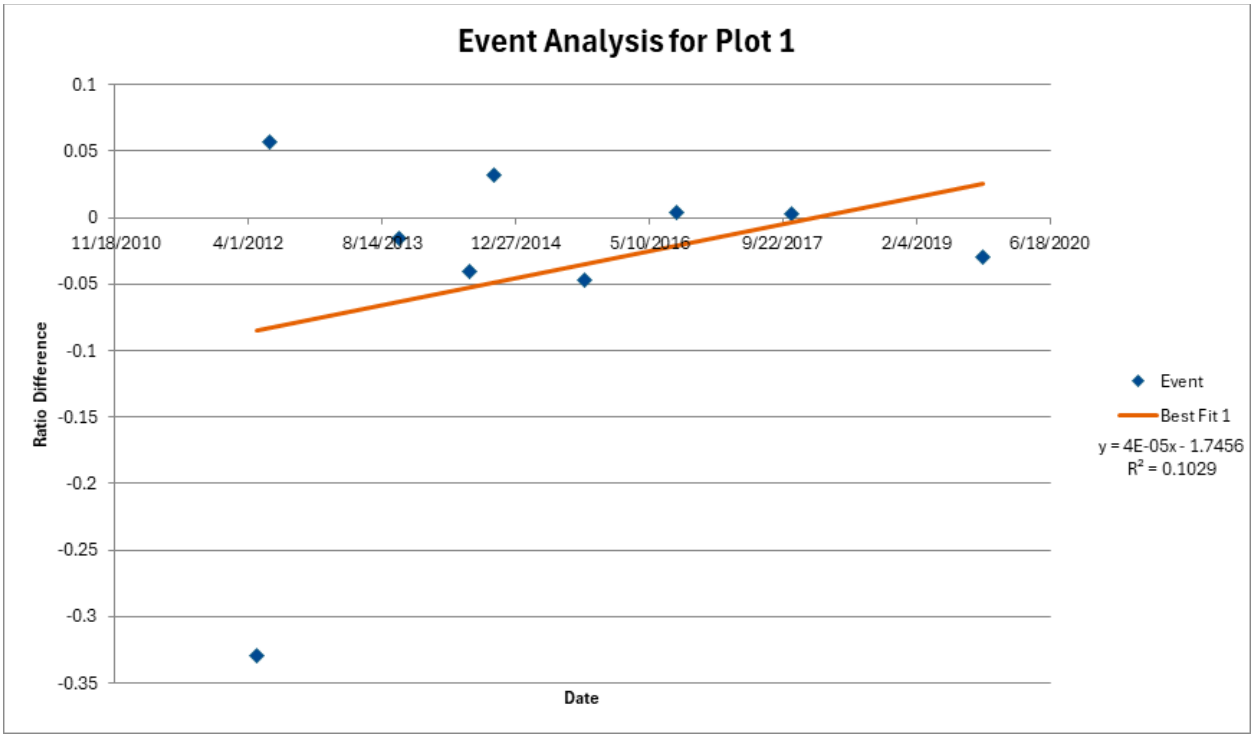

Ratio Difference Event 9
-0.49
-0.49
0.23
0.23
x̄
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

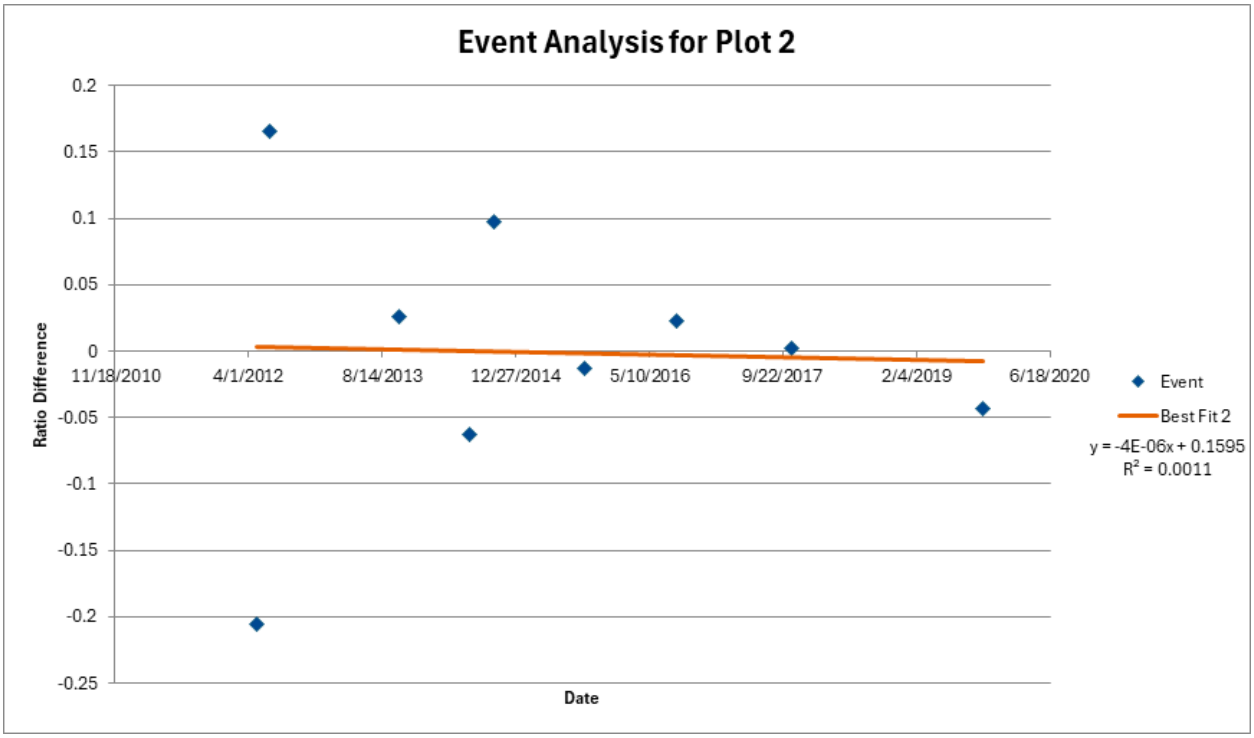

Ratio Difference Event 10
-0.25
-0.251
0.053
0.053
x̄
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

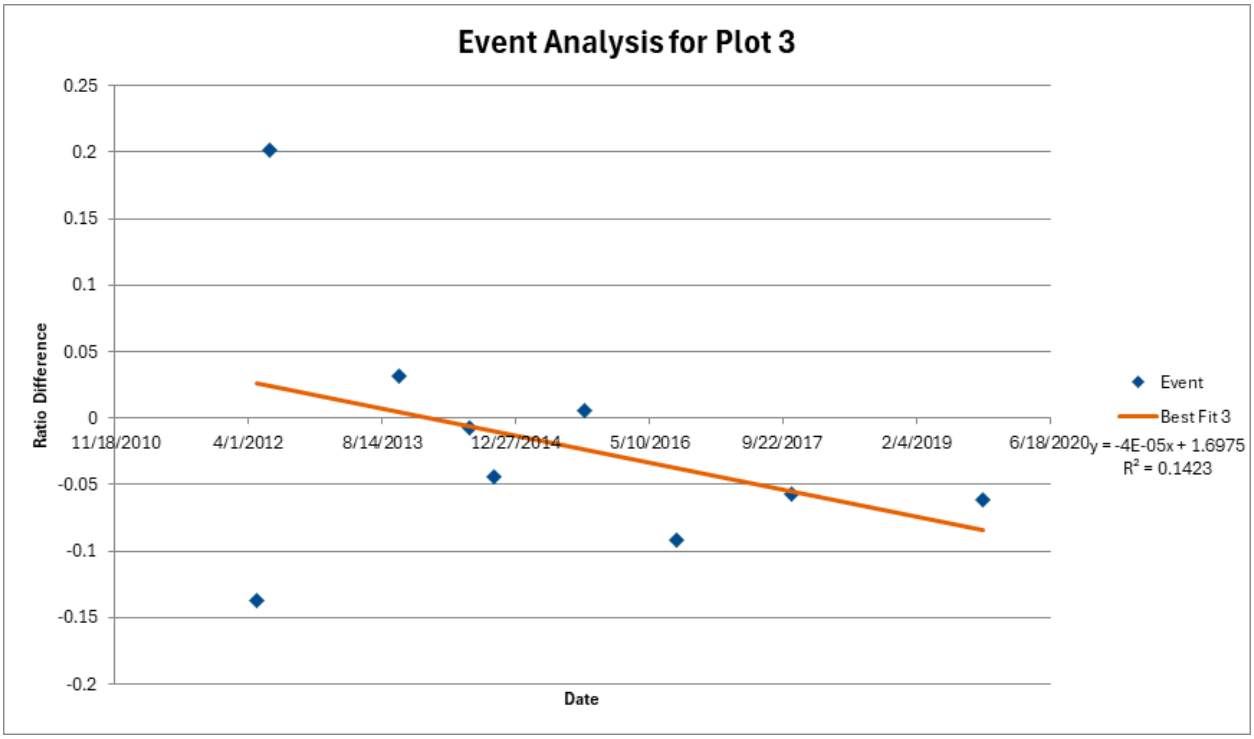

Ratio Difference Event 11
-0.21
-0.214
0.133
0.13
x̄
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

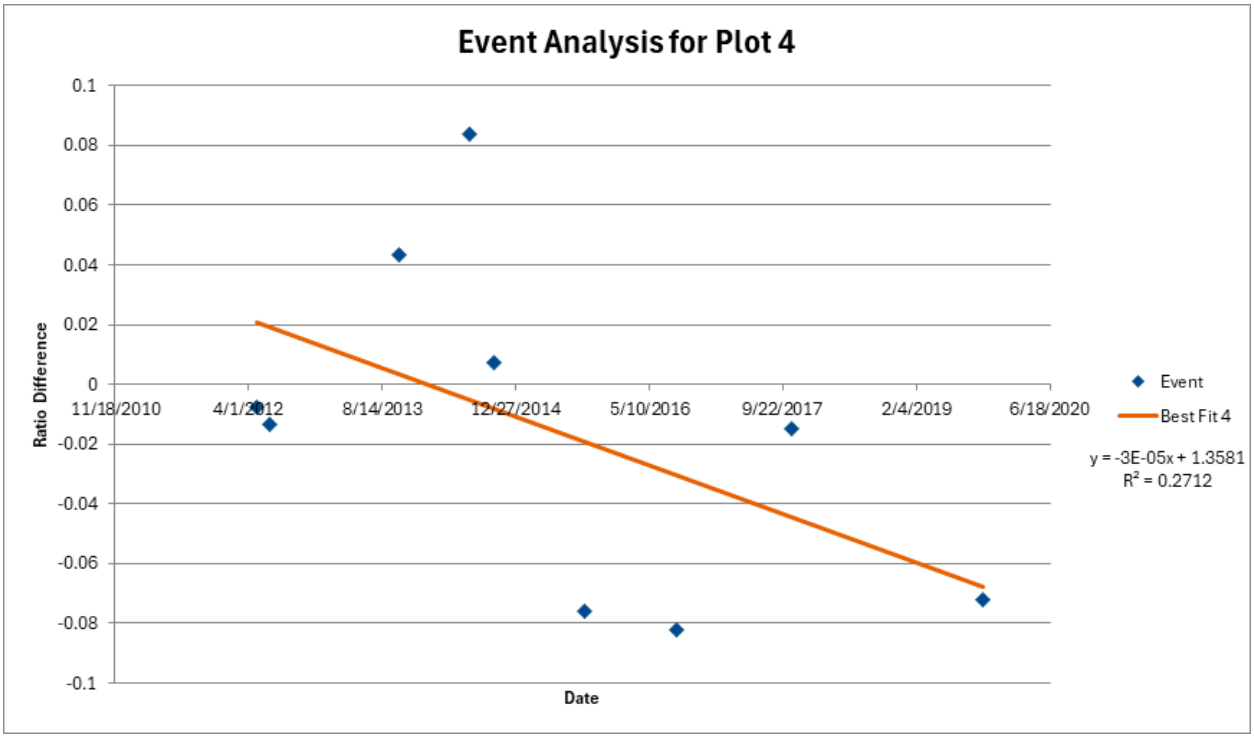

Ratio Difference Incorrect
Event 10
-0.38
-0.382
0.201
0.20
x̄
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

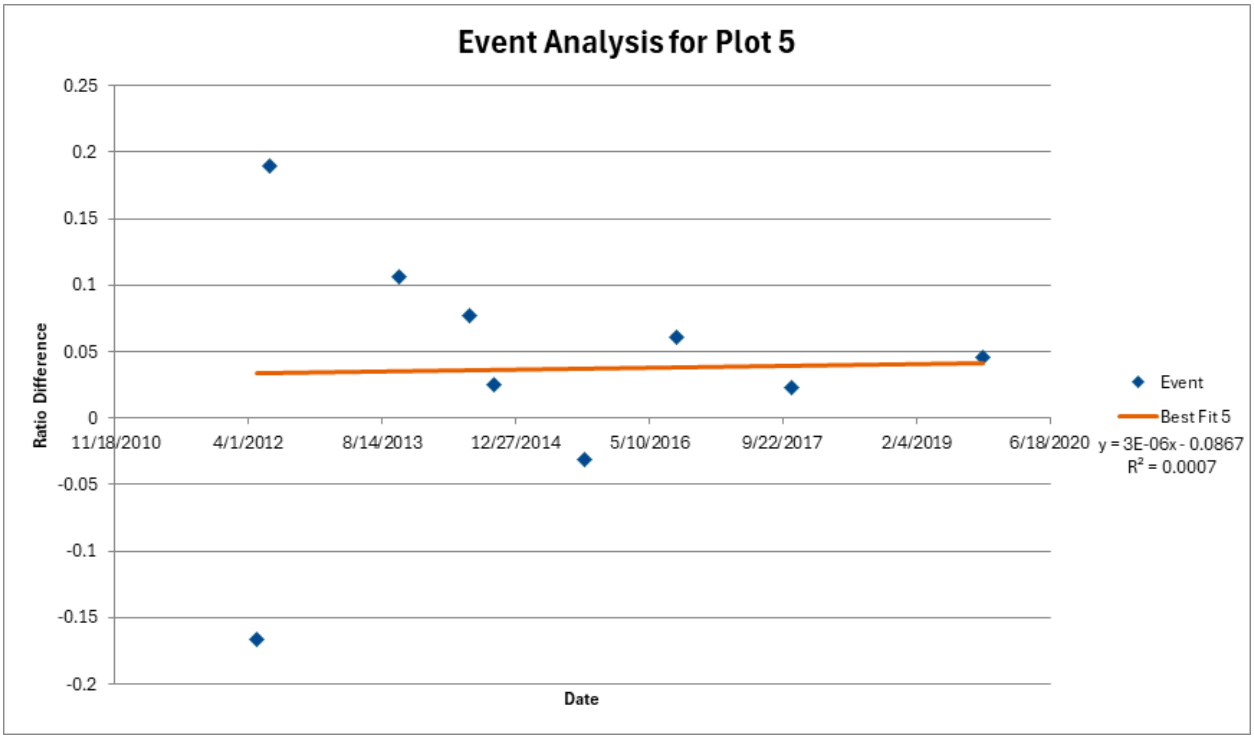
N: Individual Event Analysis for Sites 1-97:

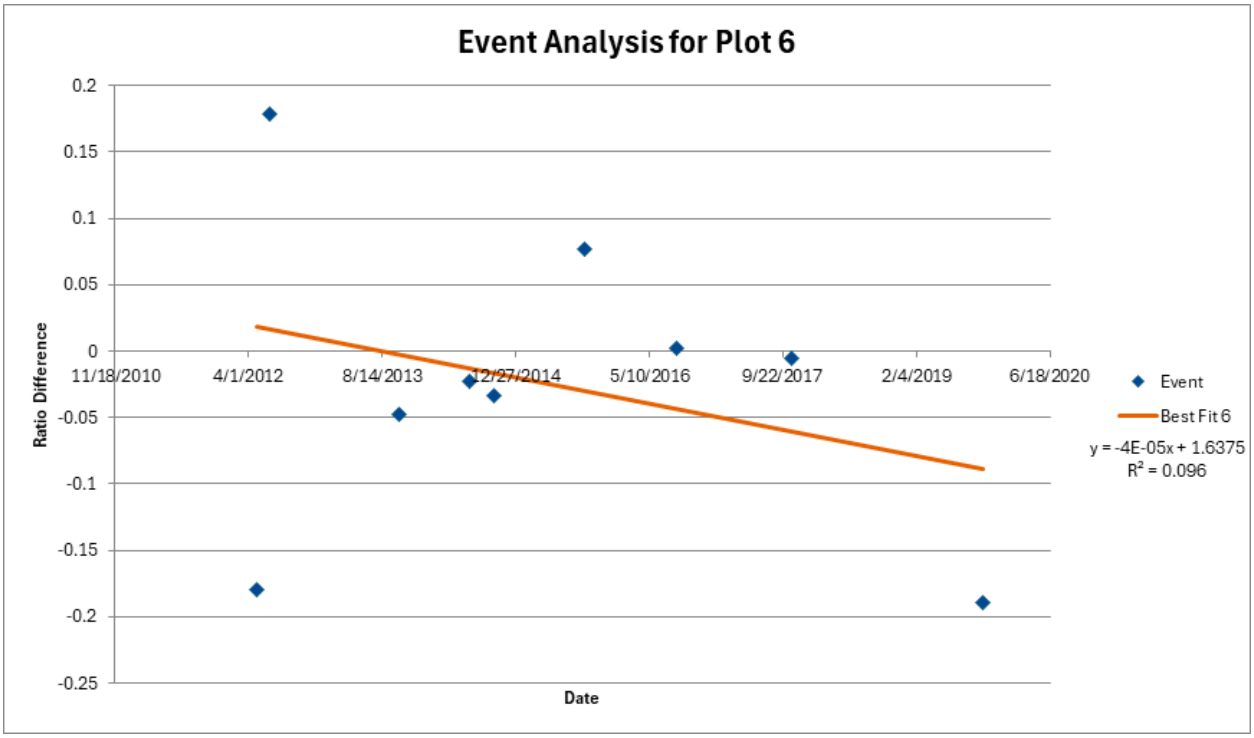


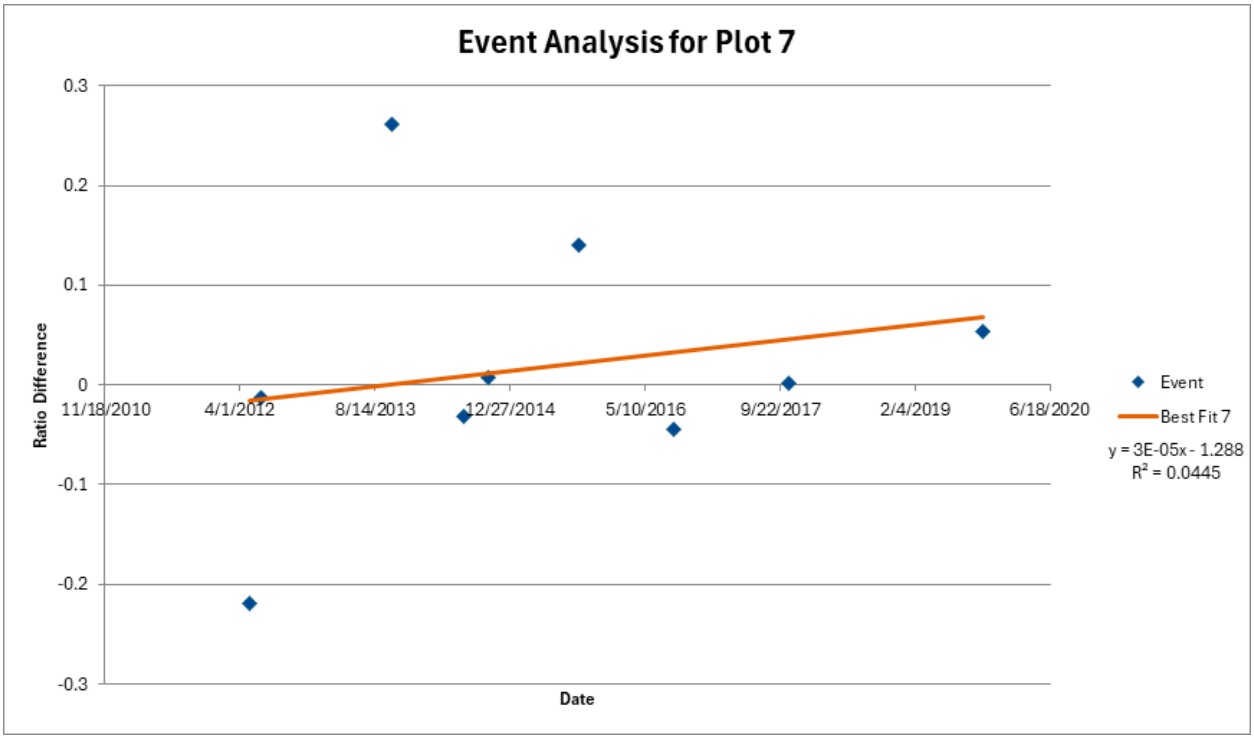


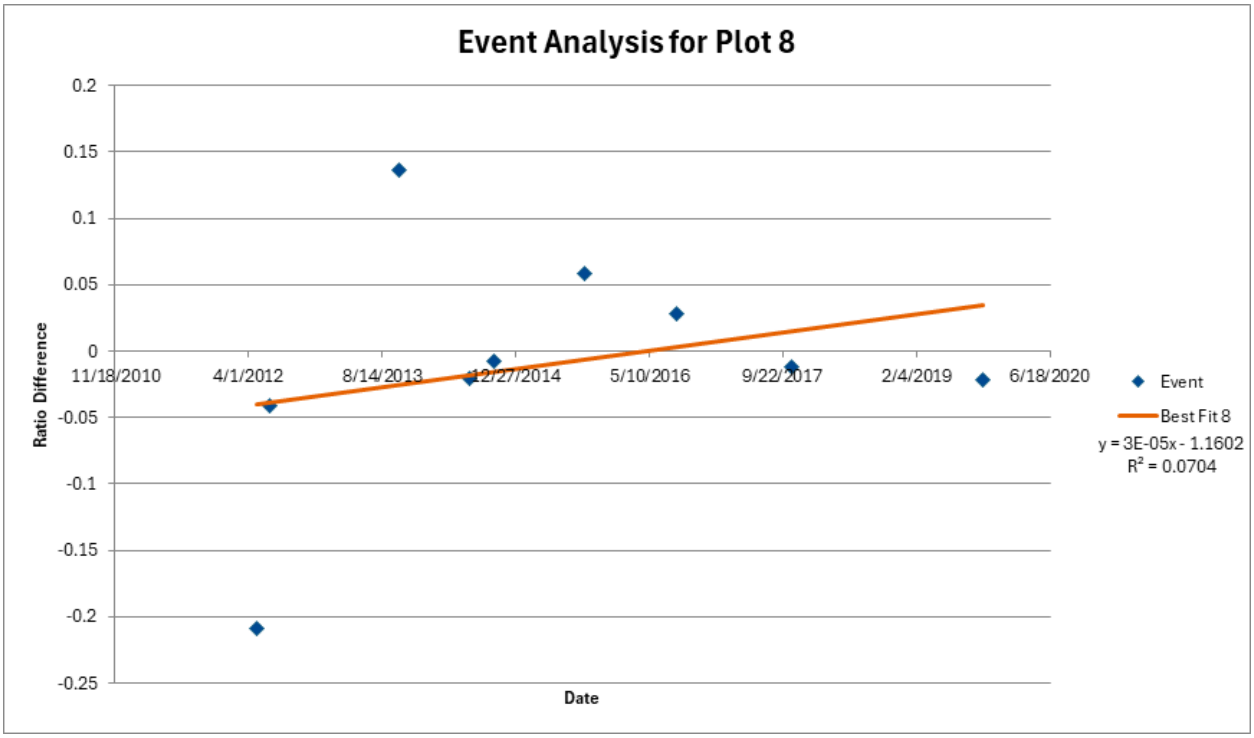

Event Analysis for Plot 3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 3
y = -4E-05x + 1.6975
R² = 0.1423

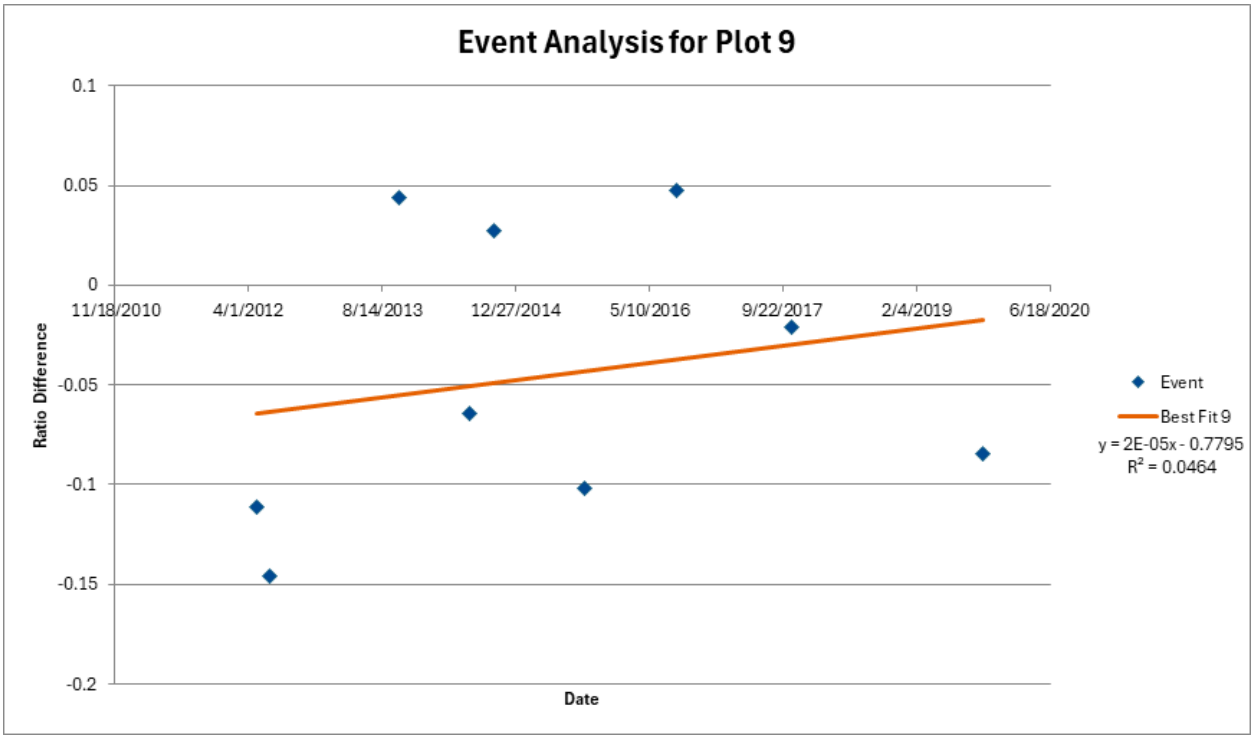

Event Analysis for Plot 4
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 4
y = -3E-05x + 1.3581
R² = 0.2712

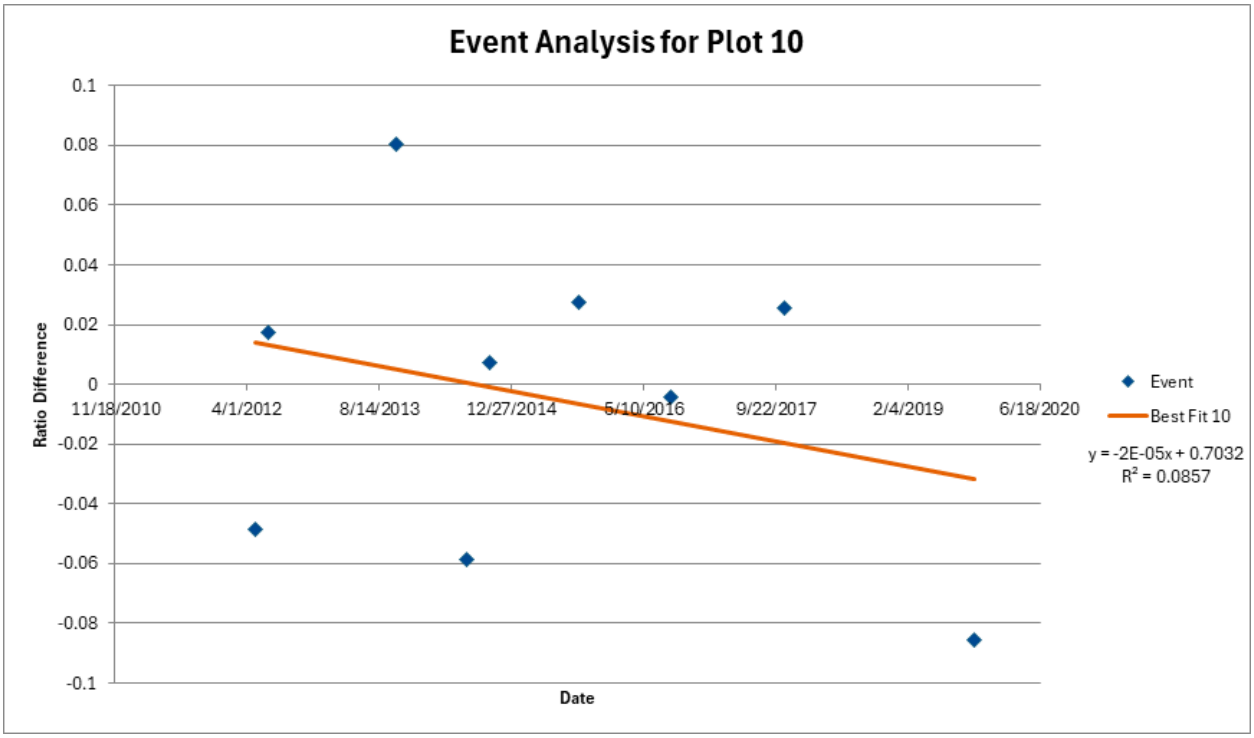

Event Analysis for Plot 5
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 5
y = 3E-06x - 0.0867
R² = 0.0007

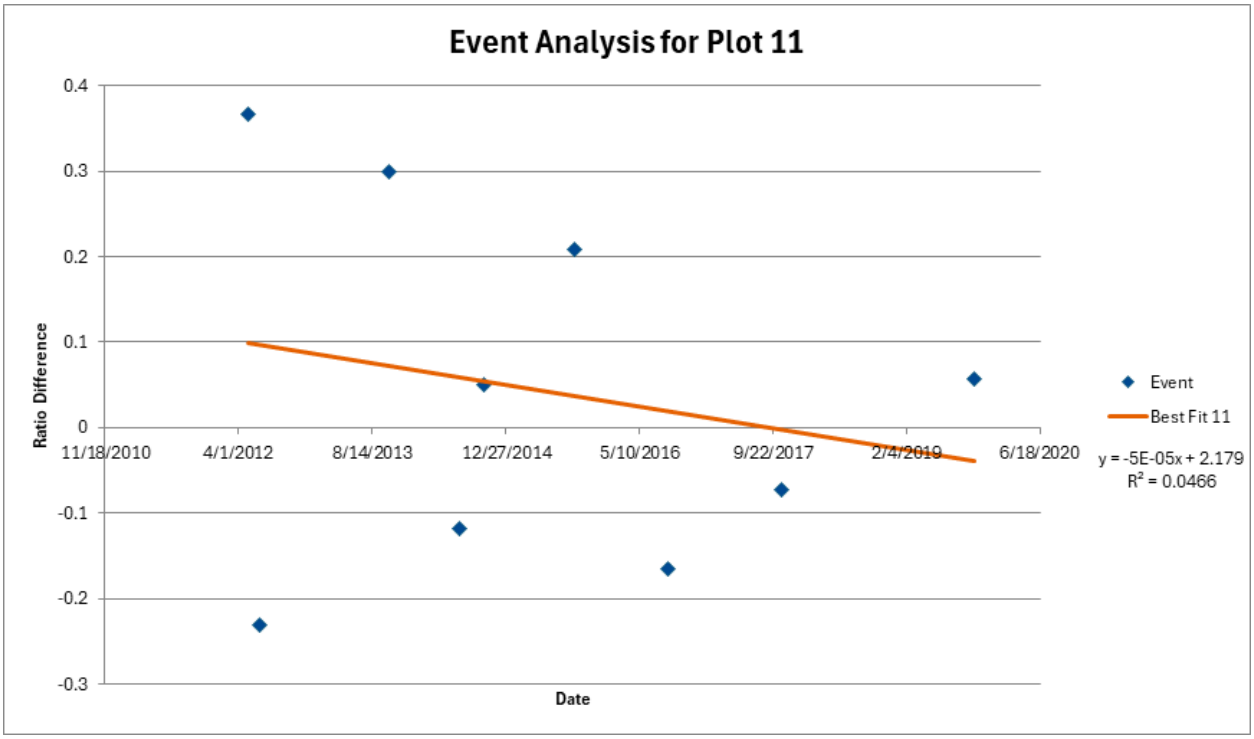

Event Analysis for Plot 6
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 6
y = -4E-05x + 1.6375
R² = 0.096

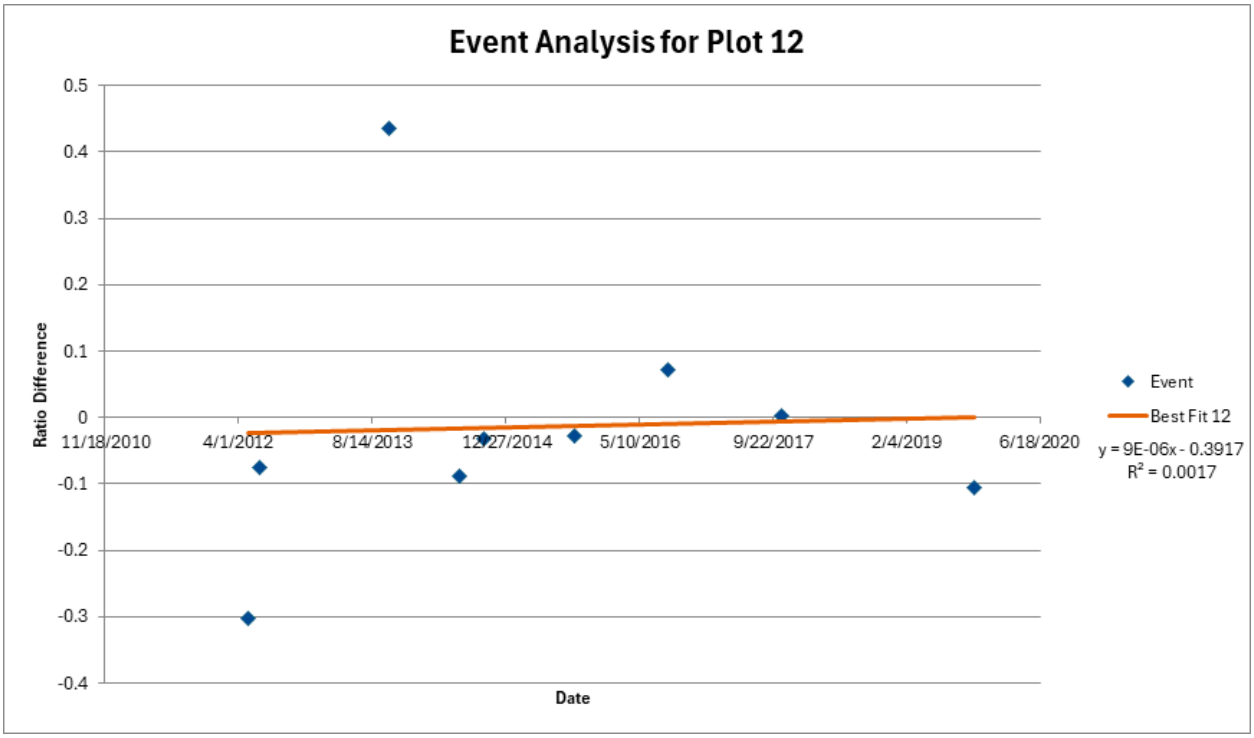

Event Analysis for Plot 7
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 7
y = 3E-05x - 1.288
R² = 0.0445

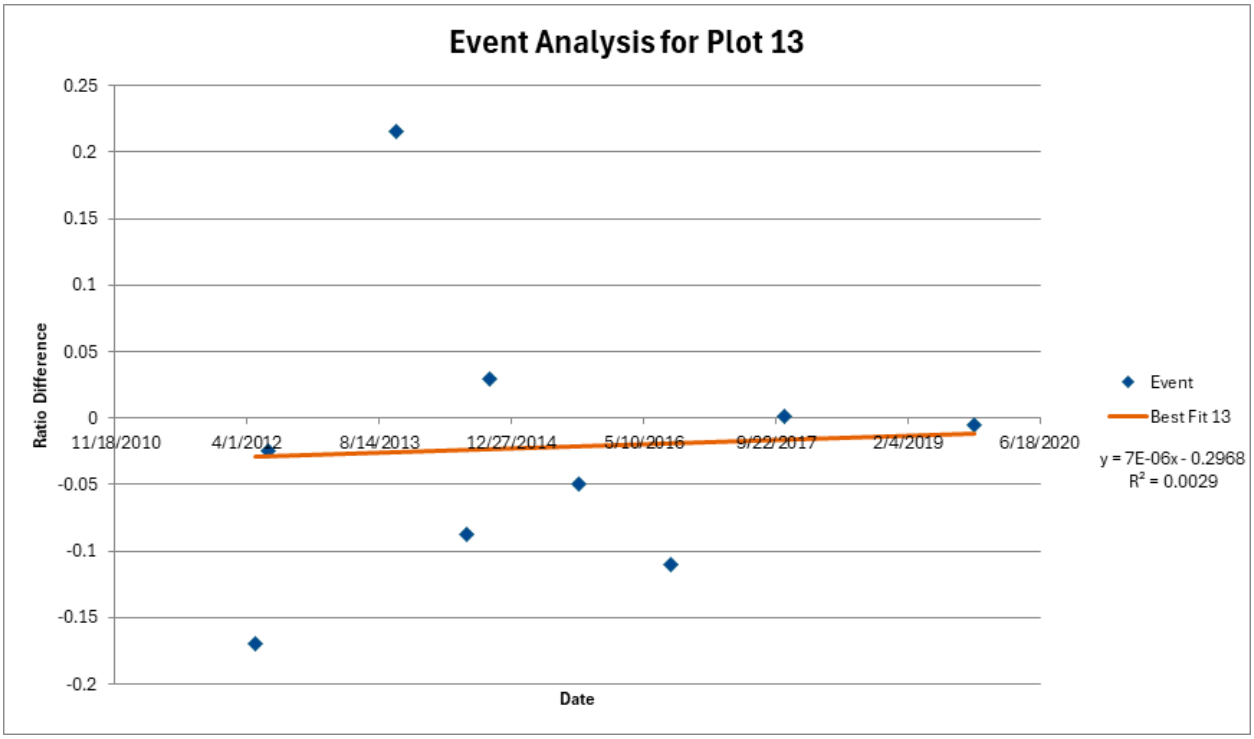

Event Analysis for Plot 8
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 8
y = 3E-05x - 1.1602
R² = 0.0704

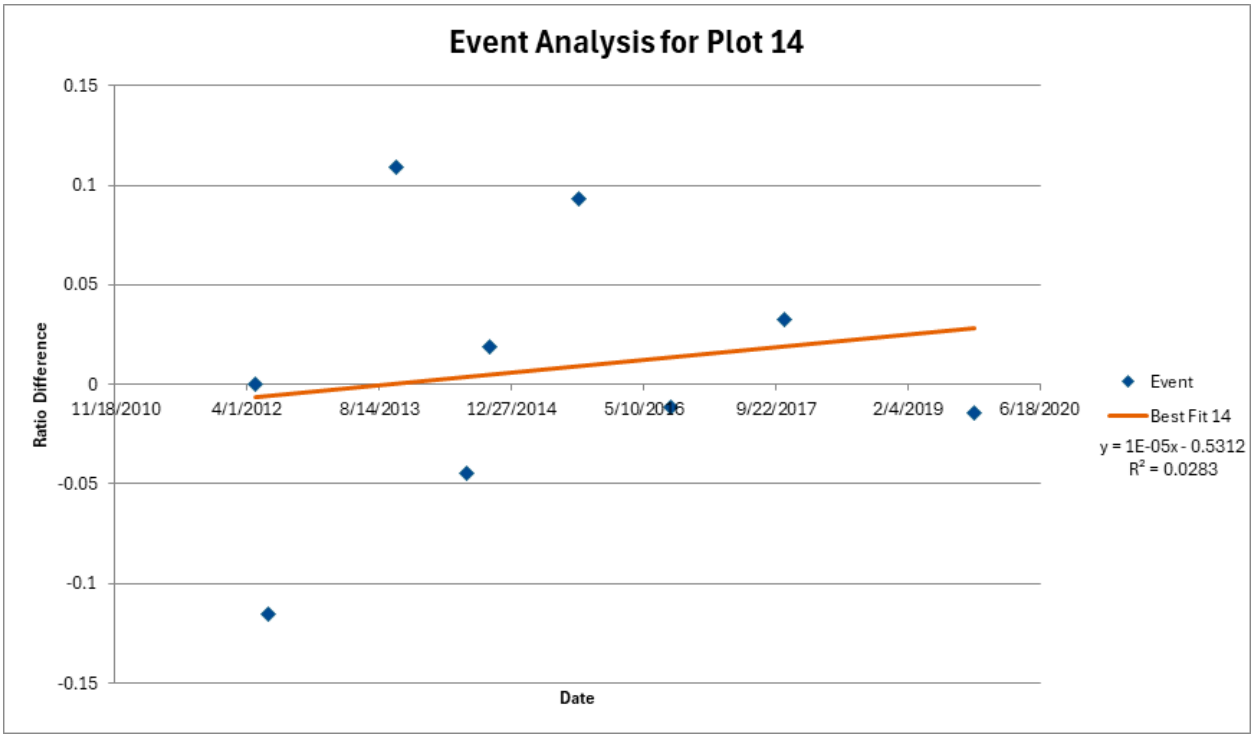

Event Analysis for Plot 9
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 9
y = 2E-05x - 0.7795
R² = 0.0464

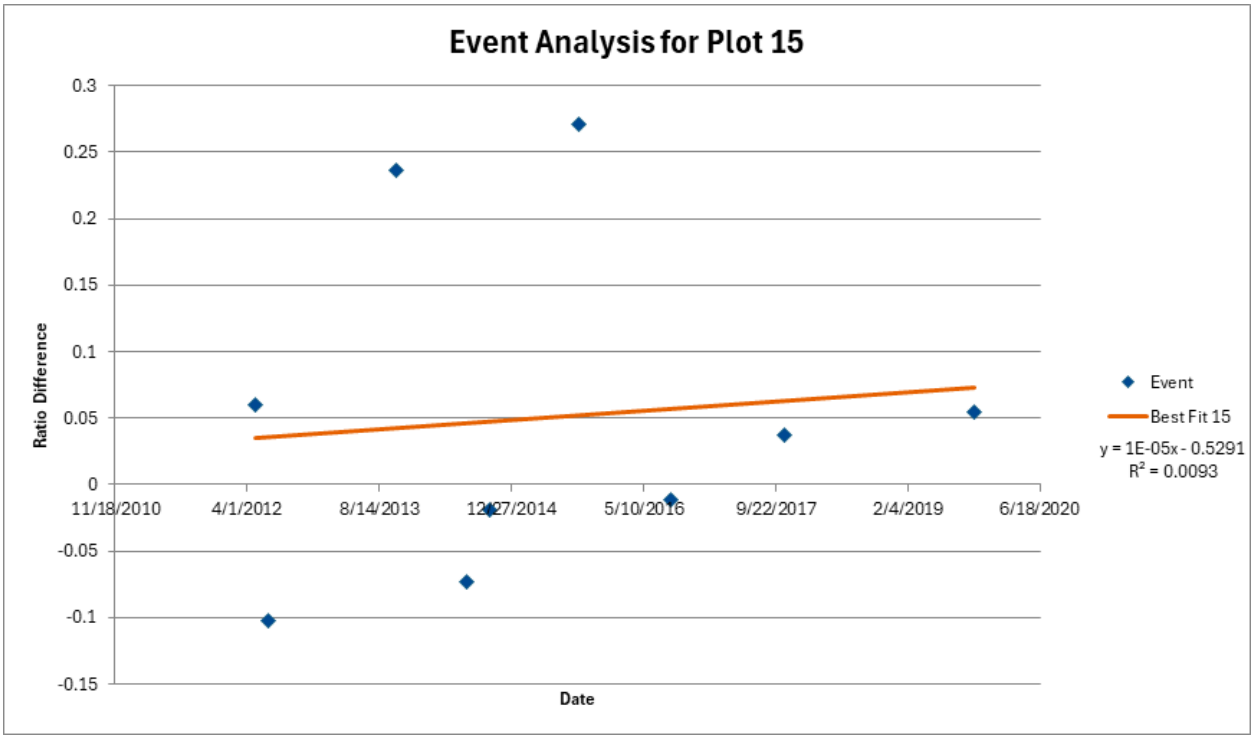

Event Analysis for Plot 10
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 10
y = -2E-05x + 0.7032
R² = 0.0857

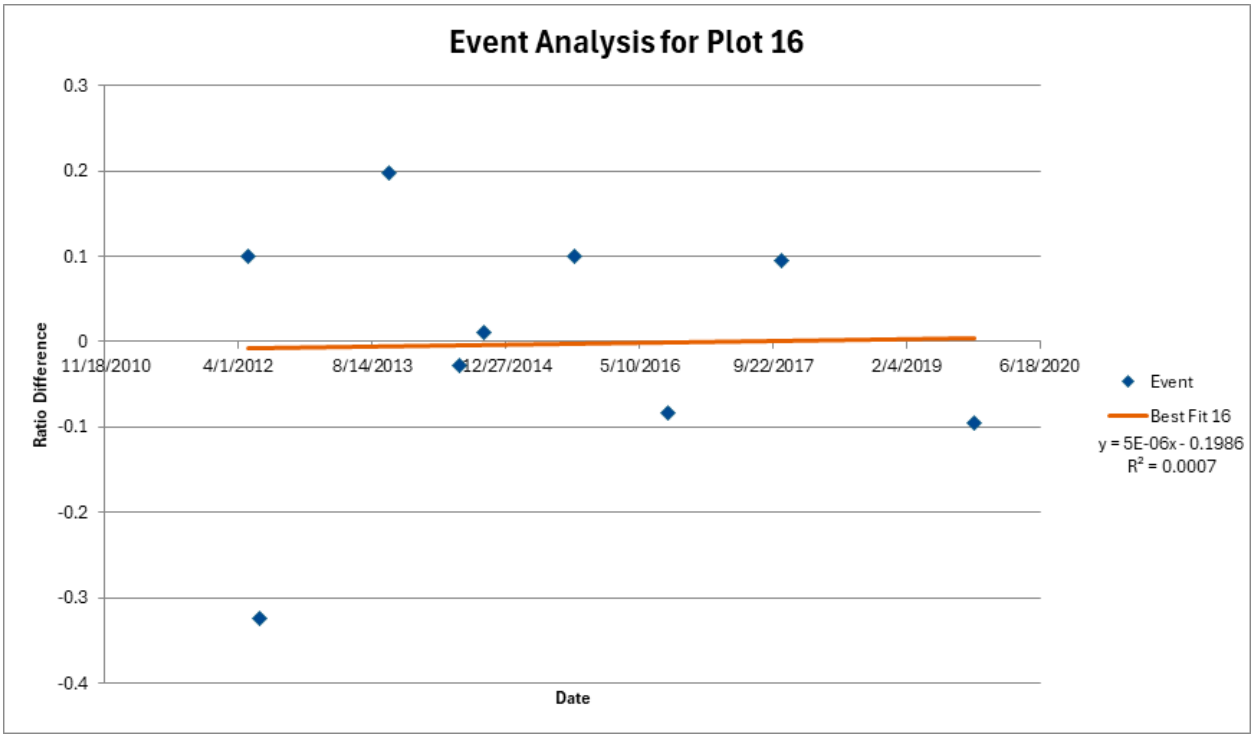

Event Analysis for Plot 11
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 11
y = -5E-05x + 2.179
R² = 0.0466

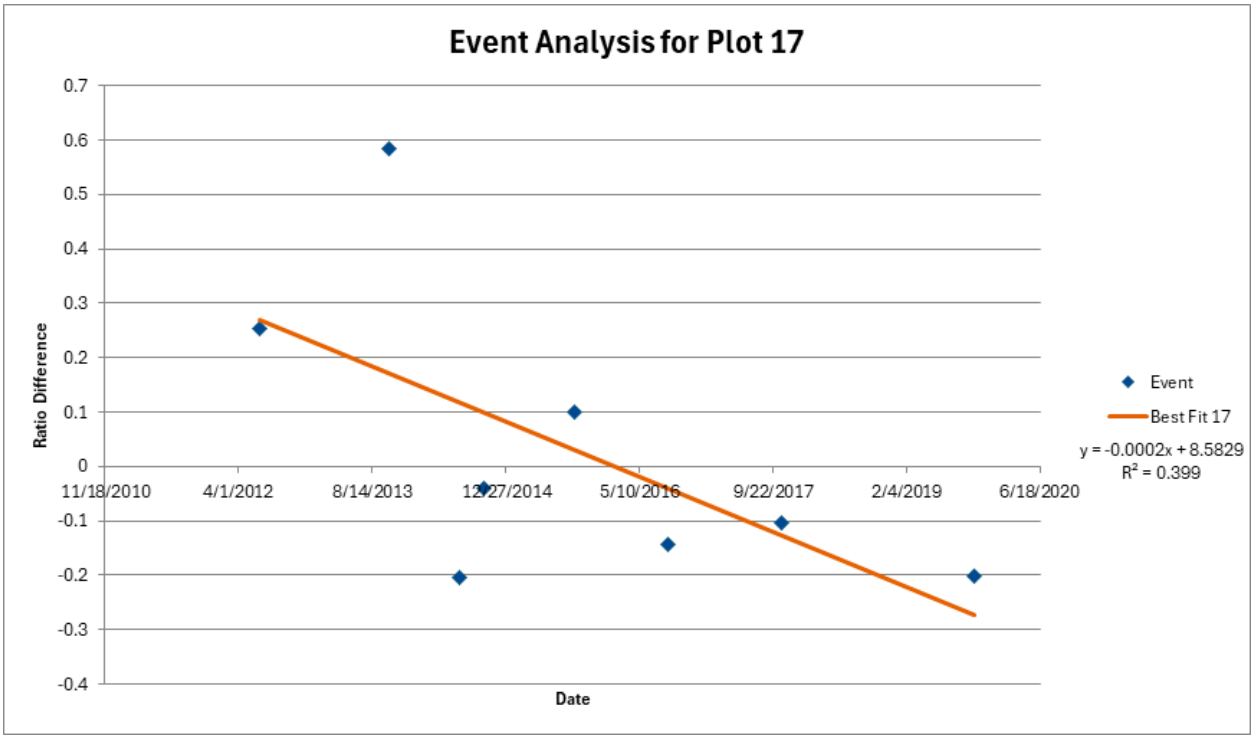

Event Analysis for Plot 12
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 12
y = 9E-06x - 0.3917
R² = 0.0017

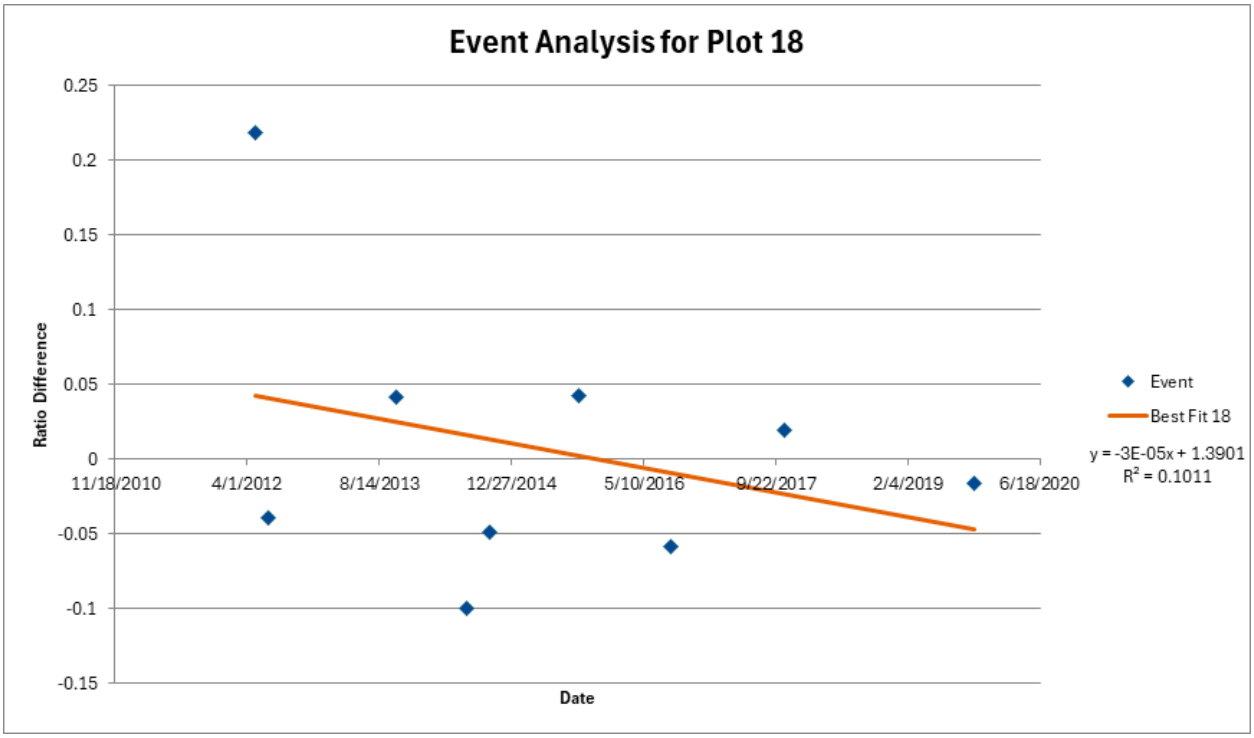

Event Analysis for Plot 13
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 13
y = 7E-06x - 0.2968
R² = 0.0029

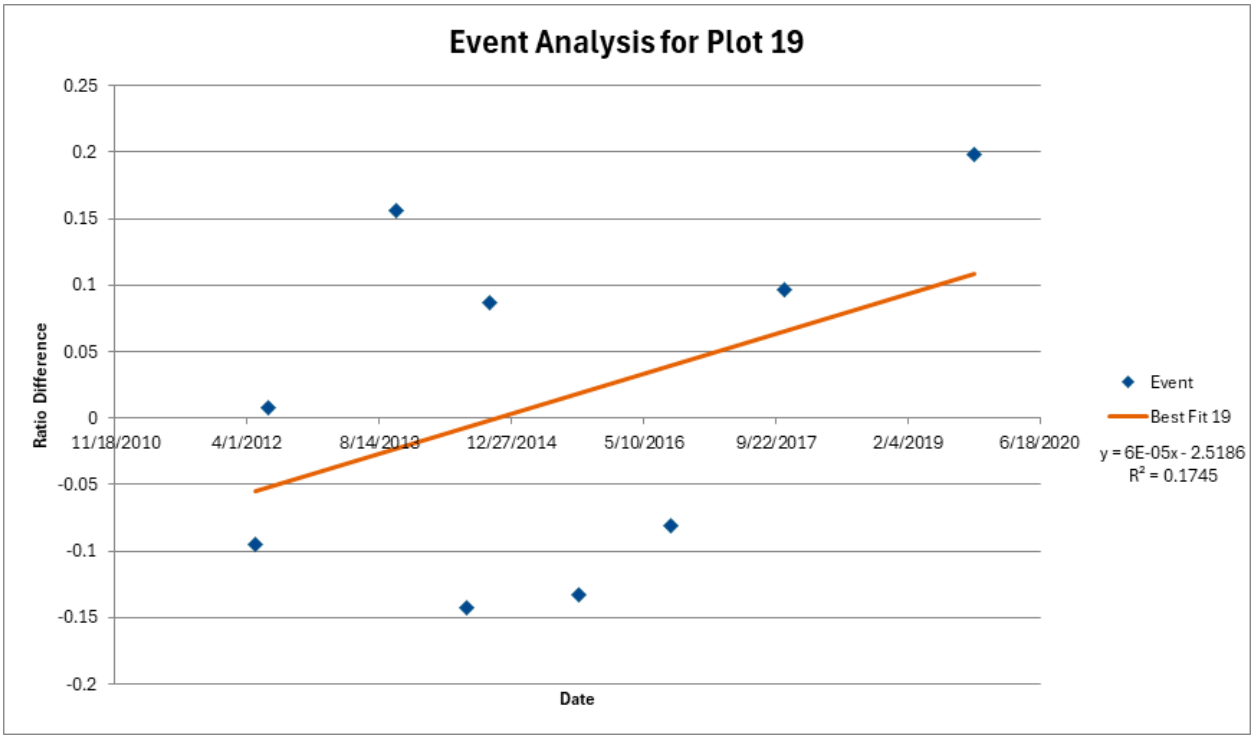

Event Analysis for Plot 14
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 14
y = 1E-05x - 0.5312
R² = 0.0283

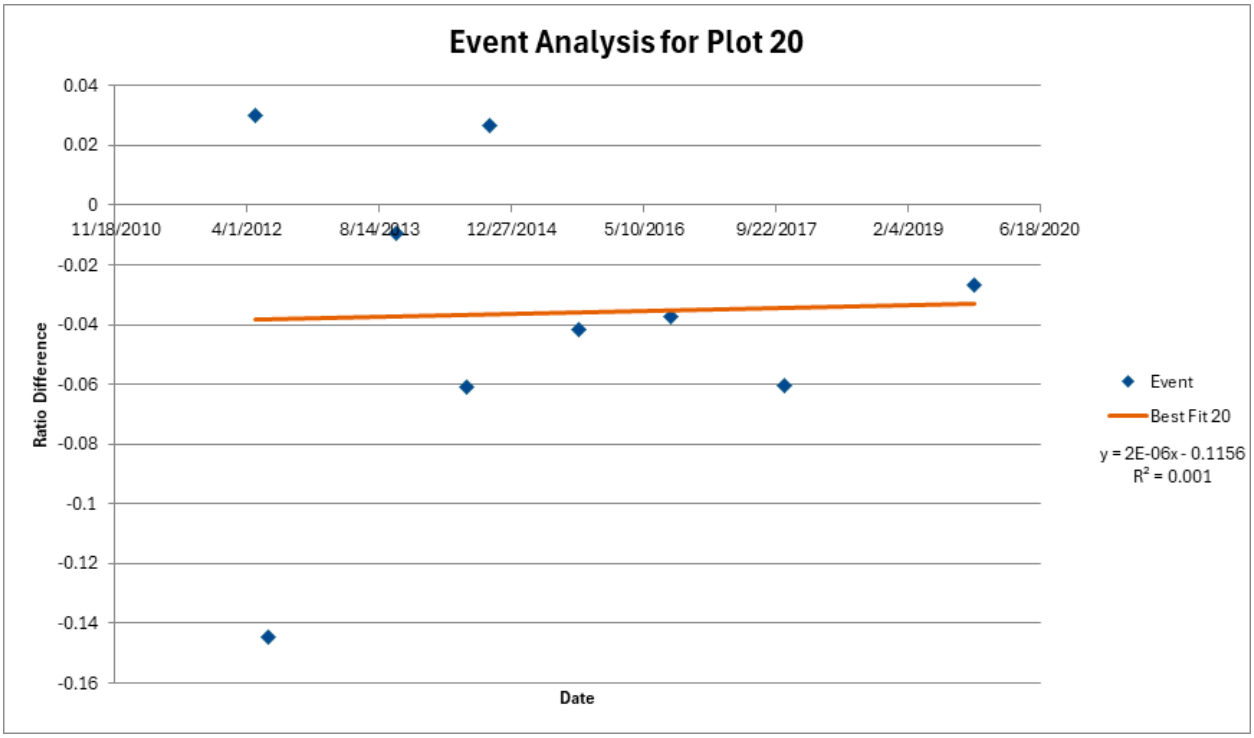

Event Analysis for Plot 15
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 15
y = 1E-05x - 0.5291
R² = 0.0093

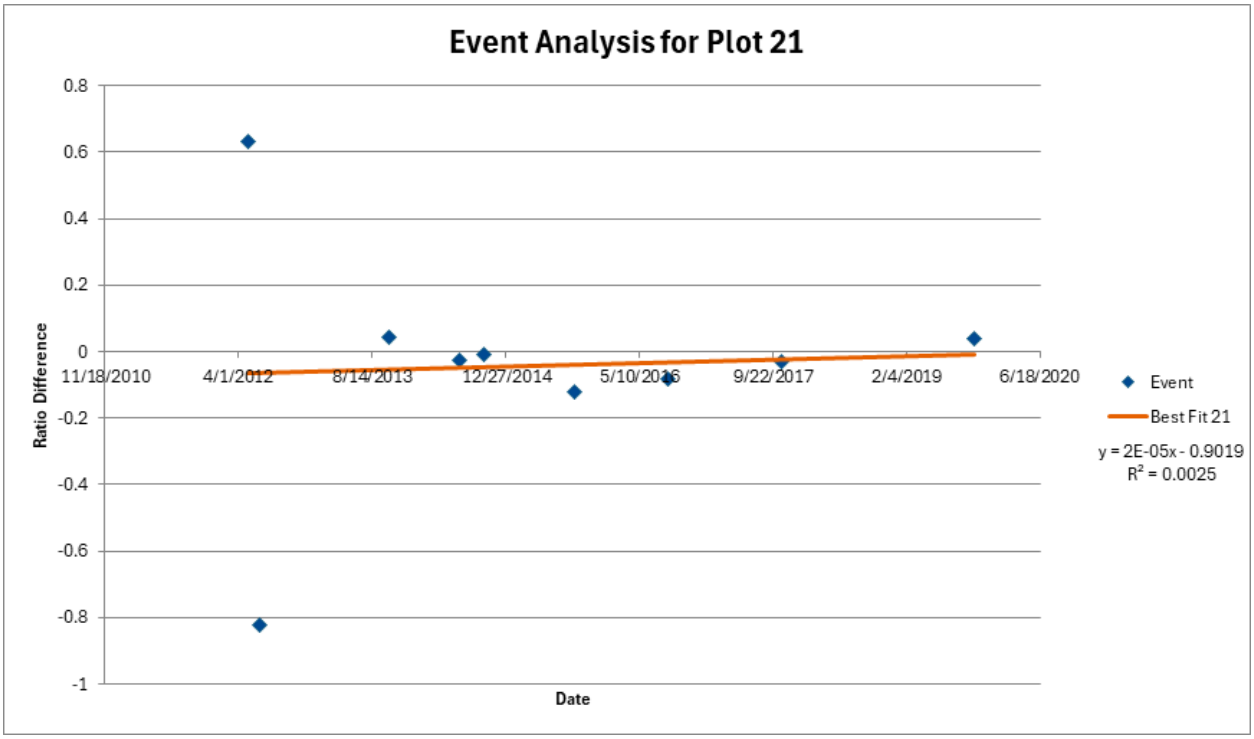

Event Analysis for Plot 16
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 16
y = 5E-06x - 0.1986
R² = 0.0007

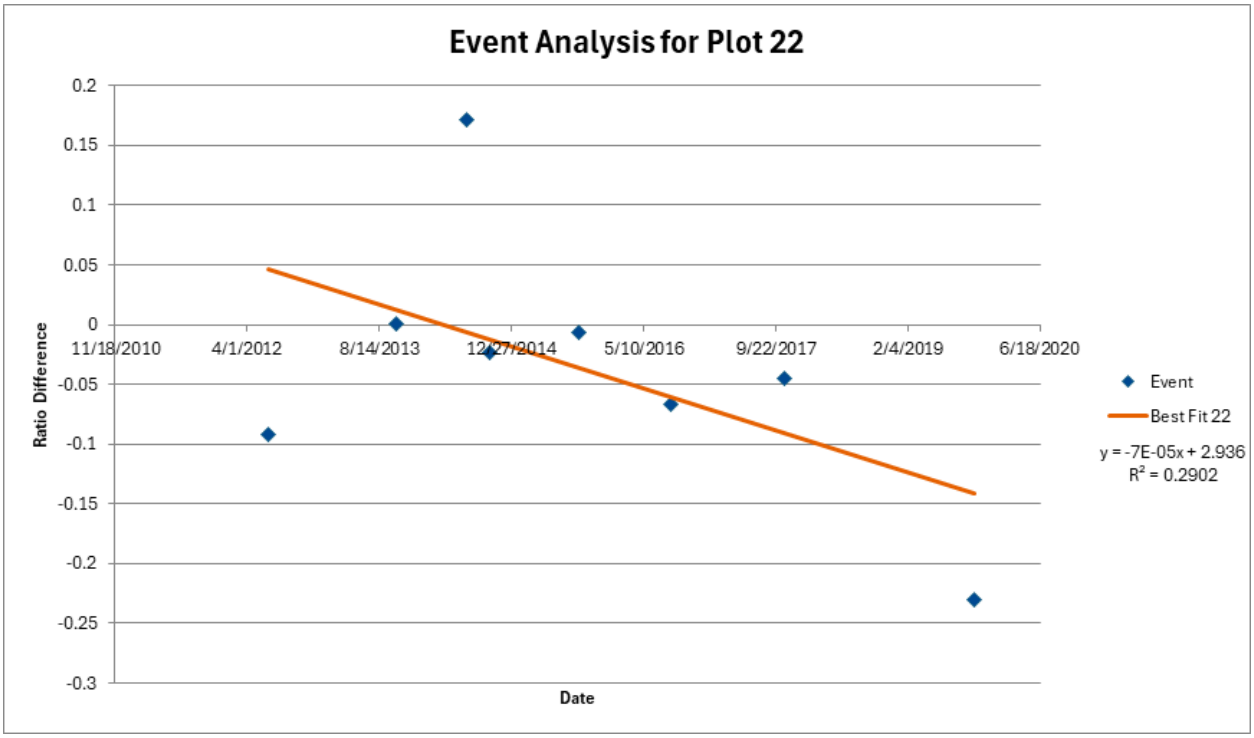

Event Analysis for Plot 17
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 17
y = -0.0002x + 8.5829
R² = 0.399

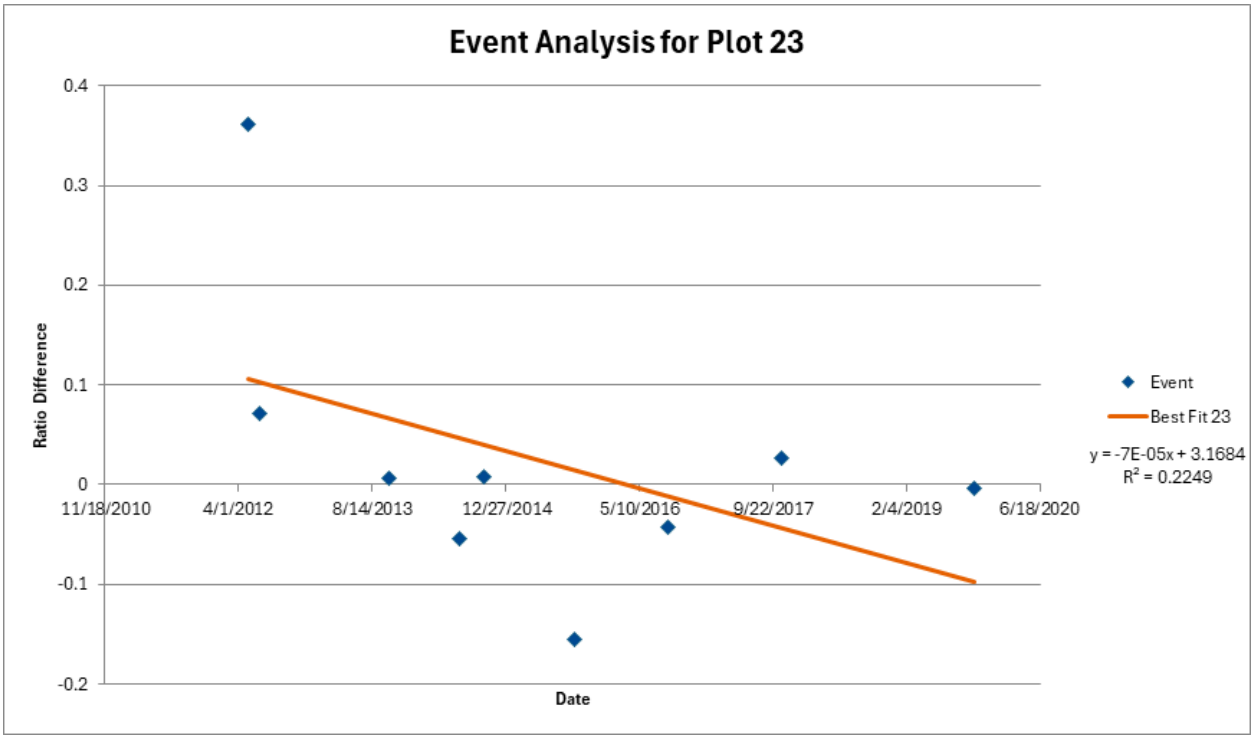

Event Analysis for Plot 18
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 18
y = -3E-05x + 1.3901
R² = 0.1011

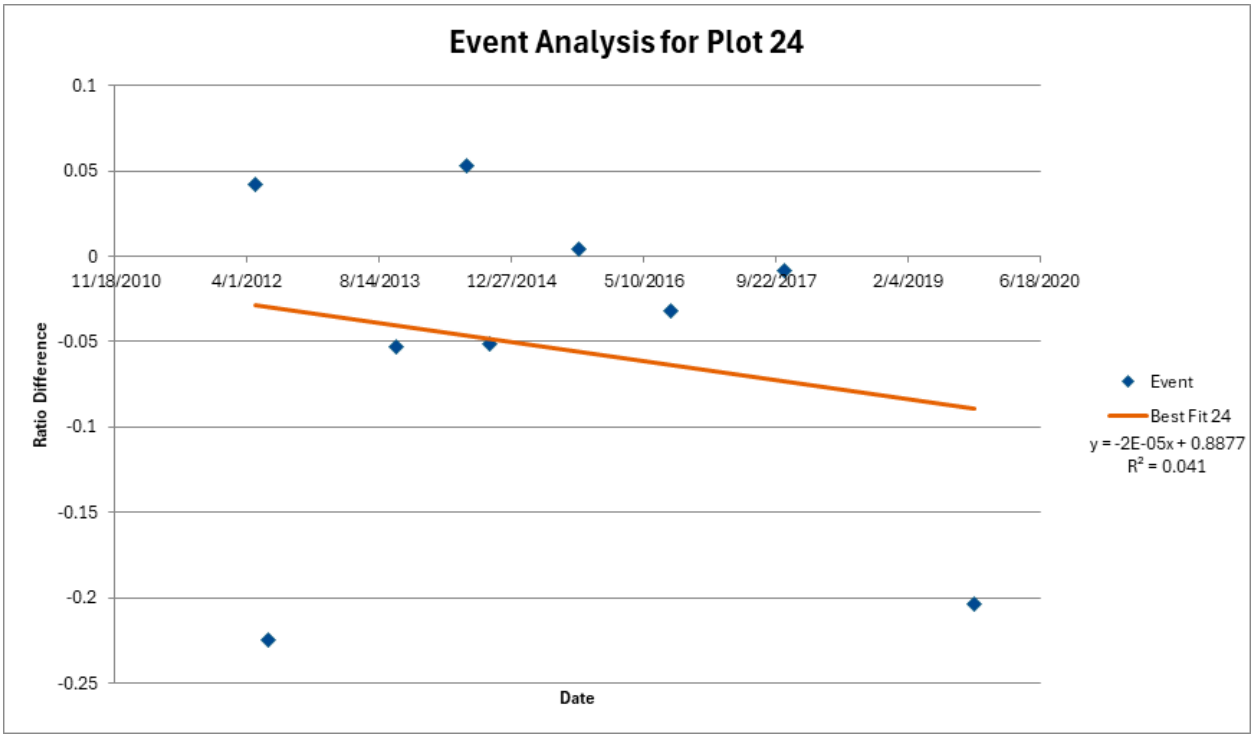

Event Analysis for Plot 19
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 19
y = 6E-05x - 2.5186
R² = 0.1745

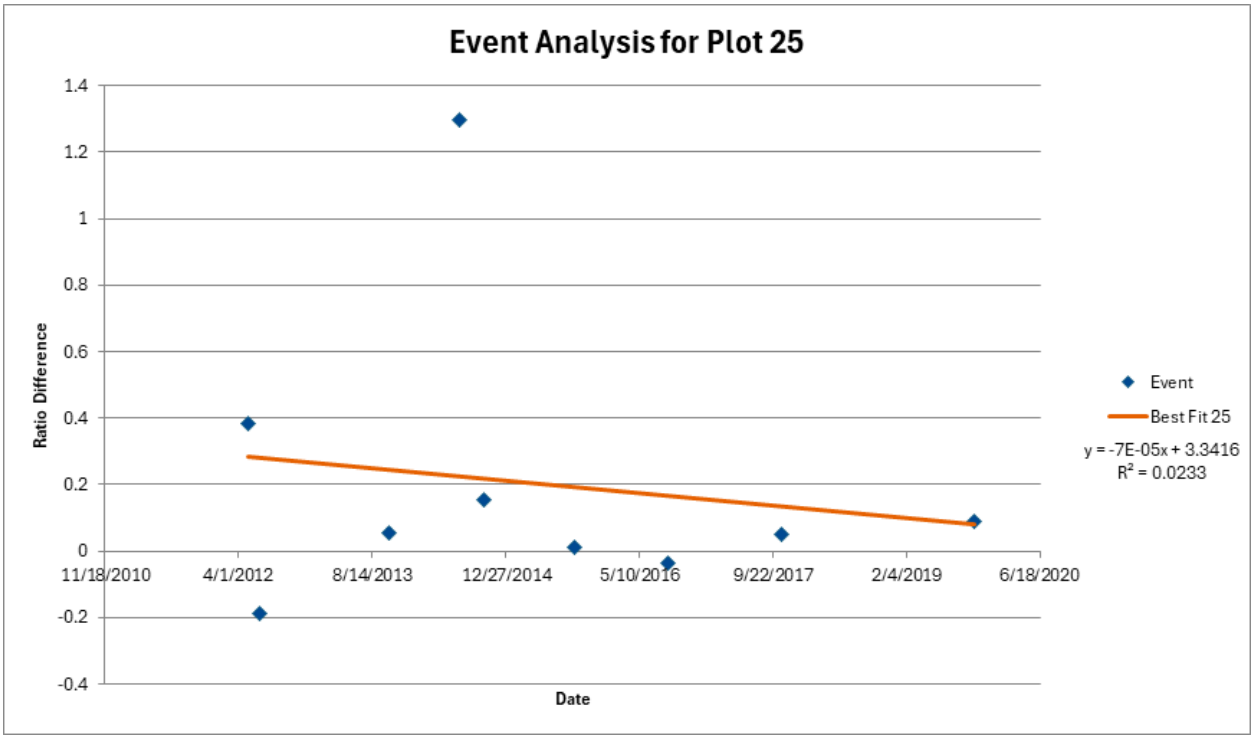

Event Analysis for Plot 20
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
-0.14
-0.16
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 20
y = 2E-06x - 0.1156
R² = 0.001

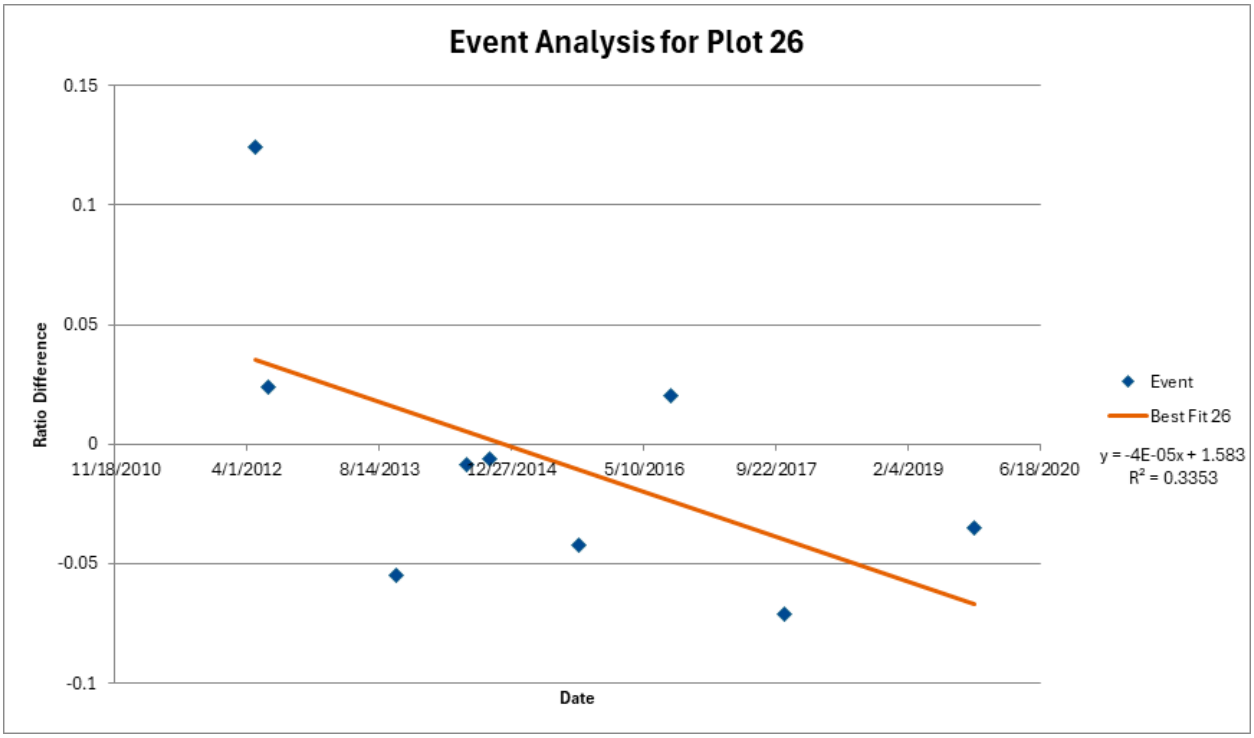

Event Analysis for Plot 21
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 21
y = 2E-05x - 0.9019
R² = 0.0025

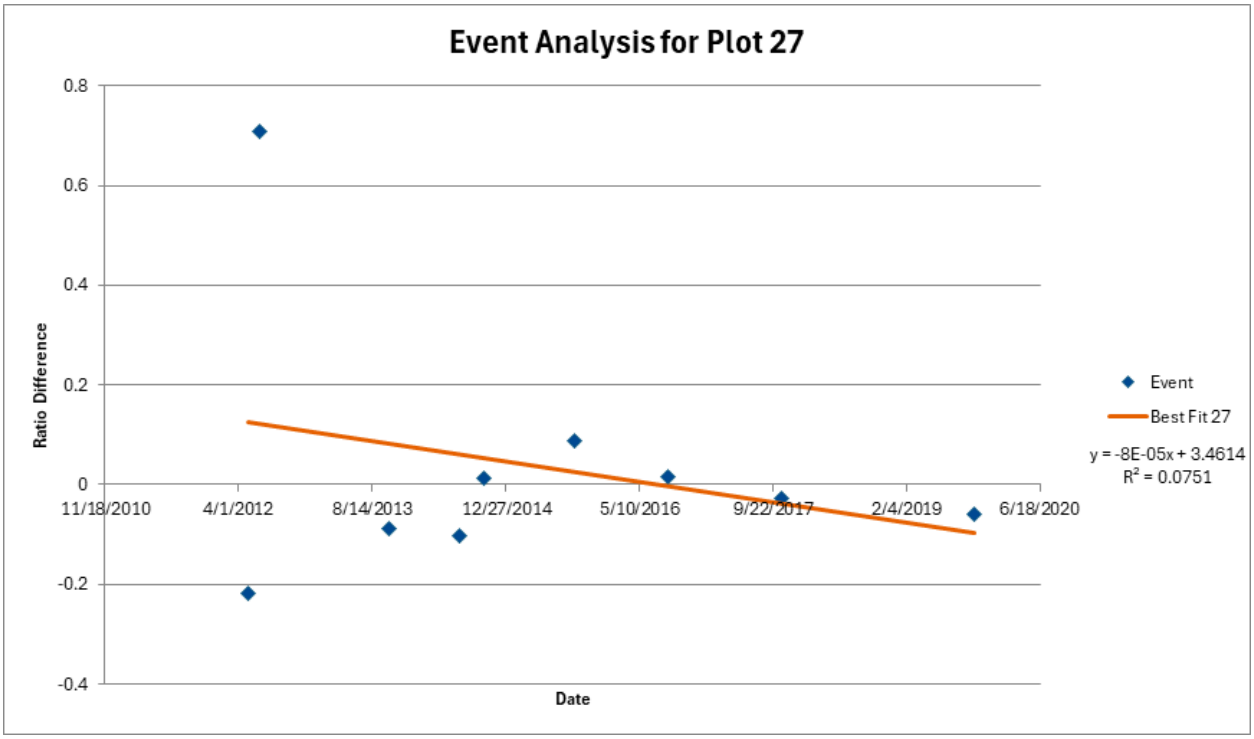

Event Analysis for Plot 22
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 22
y = -7E-05x + 2.936
R² = 0.2902

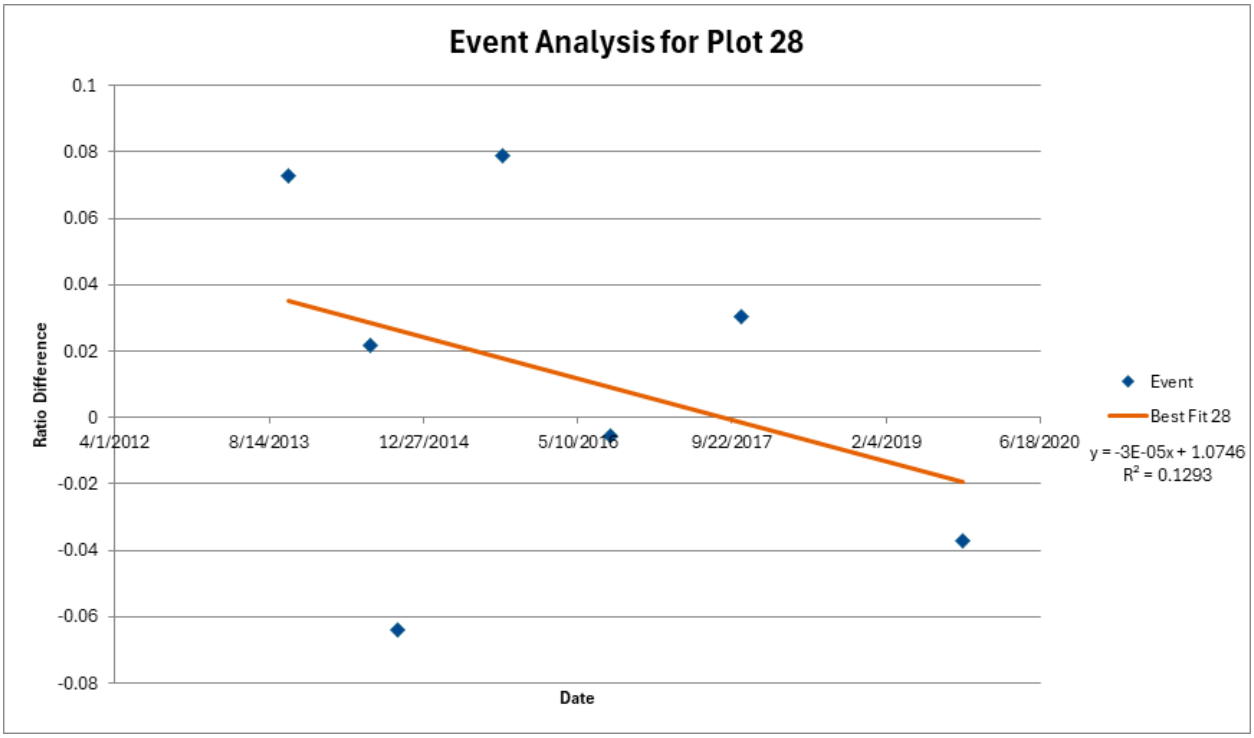

Event Analysis for Plot 23
0.4
0.3
0.2
0.1
0
-0.1
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 23
y = -7E-05x + 3.1684
R² = 0.2249

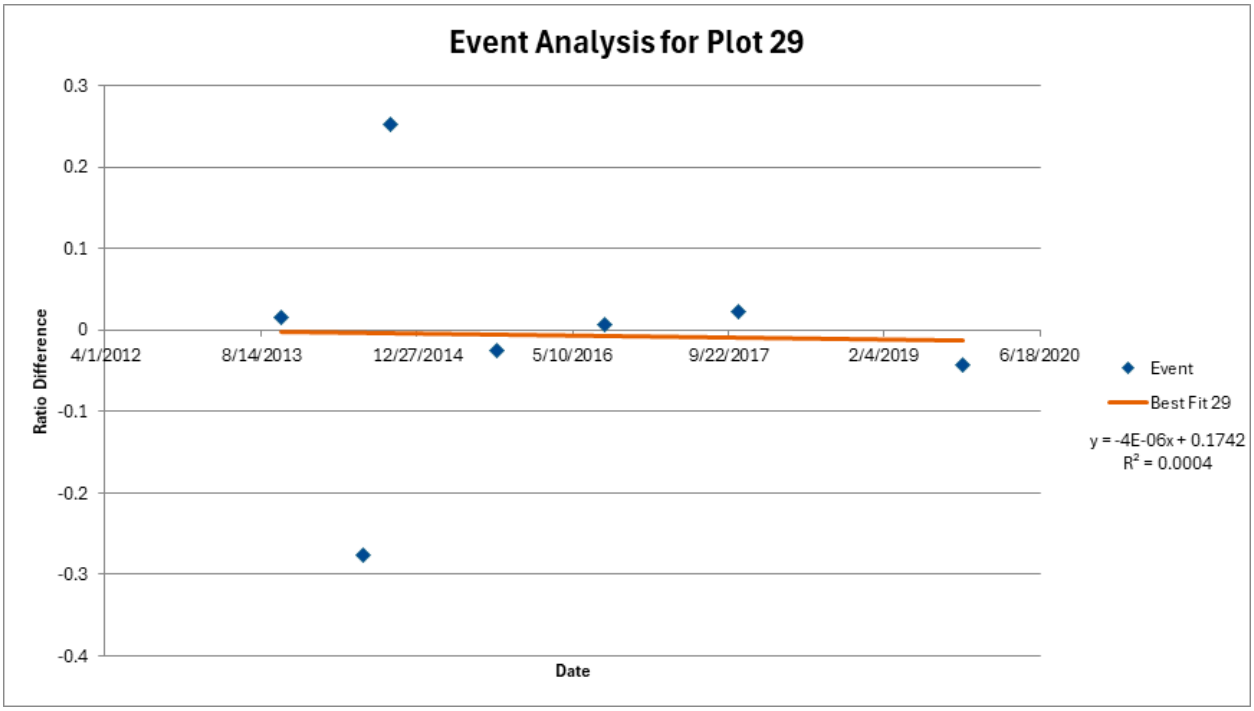

Event Analysis for Plot 24
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 24
y = -2E-05x + 0.8877
R² = 0.041

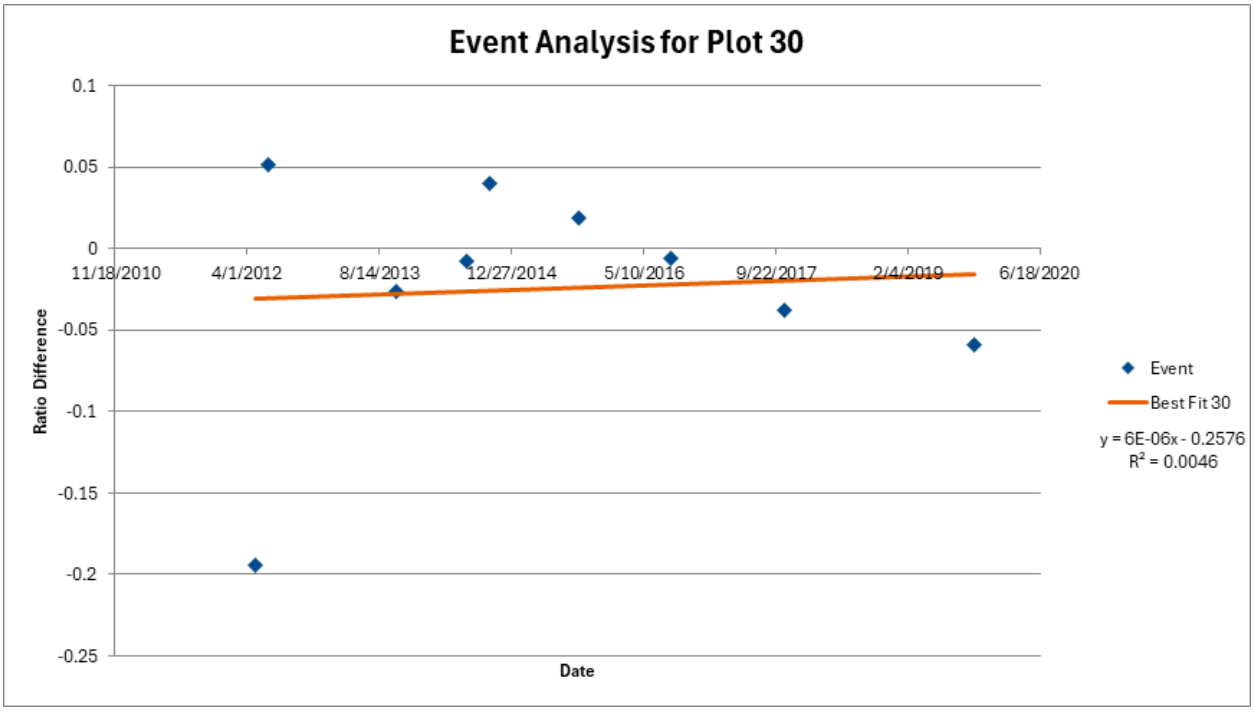

Event Analysis for Plot 25
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 25
y = -7E-05x + 3.3416
R² = 0.0233

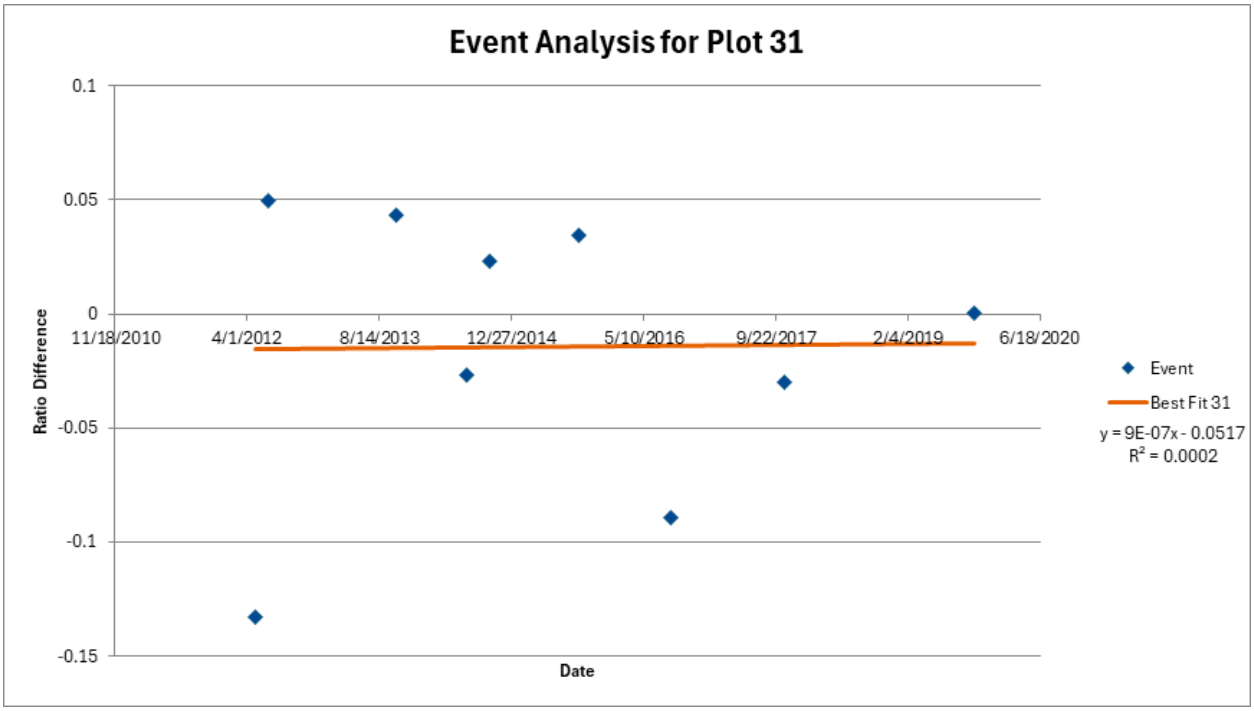

Event Analysis for Plot 26
0.15
0.1
0.05
0
-0.05
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 26
y = -4E-05x + 1.583
R² = 0.3353

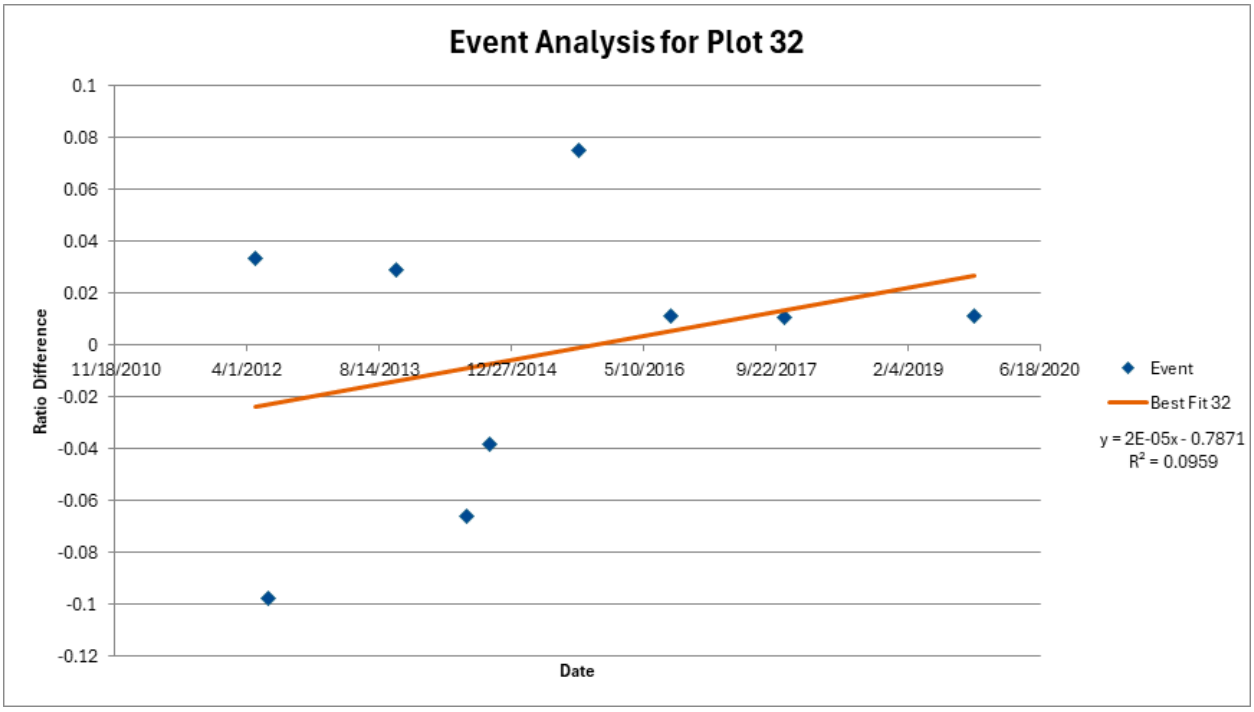

Event Analysis for Plot 27
0.8
0.6
0.4
0.2
0
-0.2
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 27
y = -8E-05x + 3.4614
R² = 0.0751

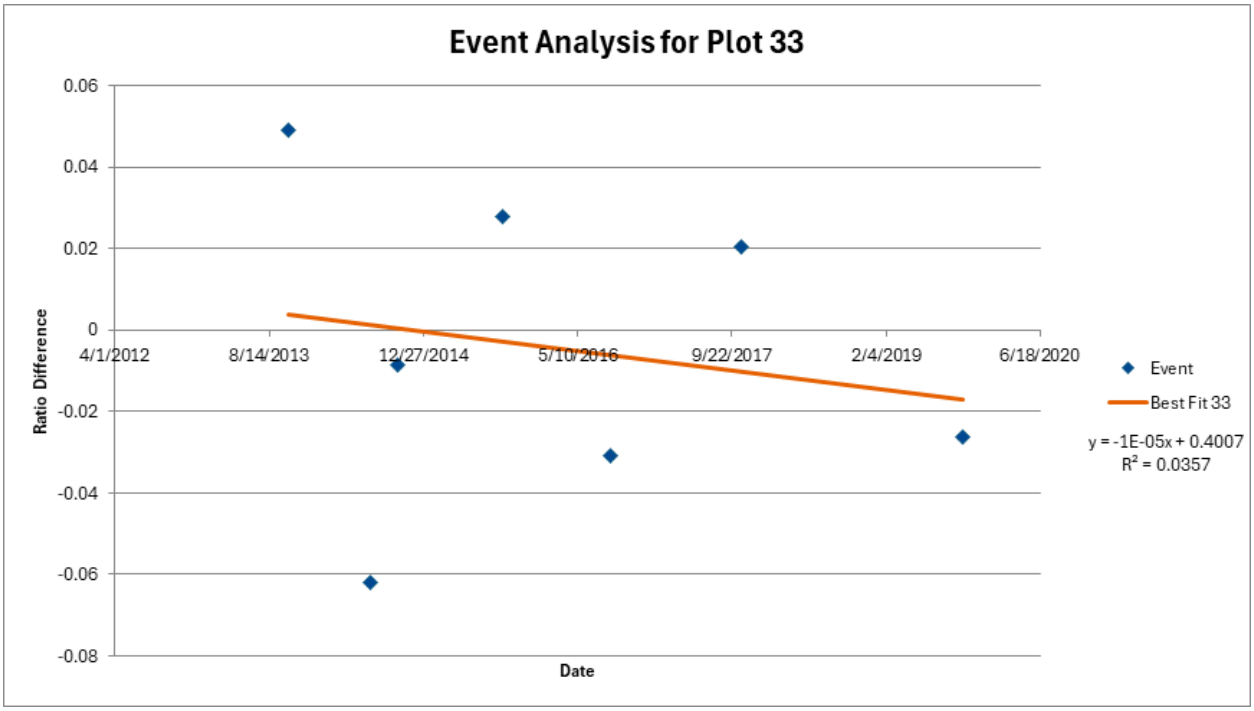

Event Analysis for Plot 28
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
Ratio Difference
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 28
y = -3E-05x + 1.0746
R² = 0.1293

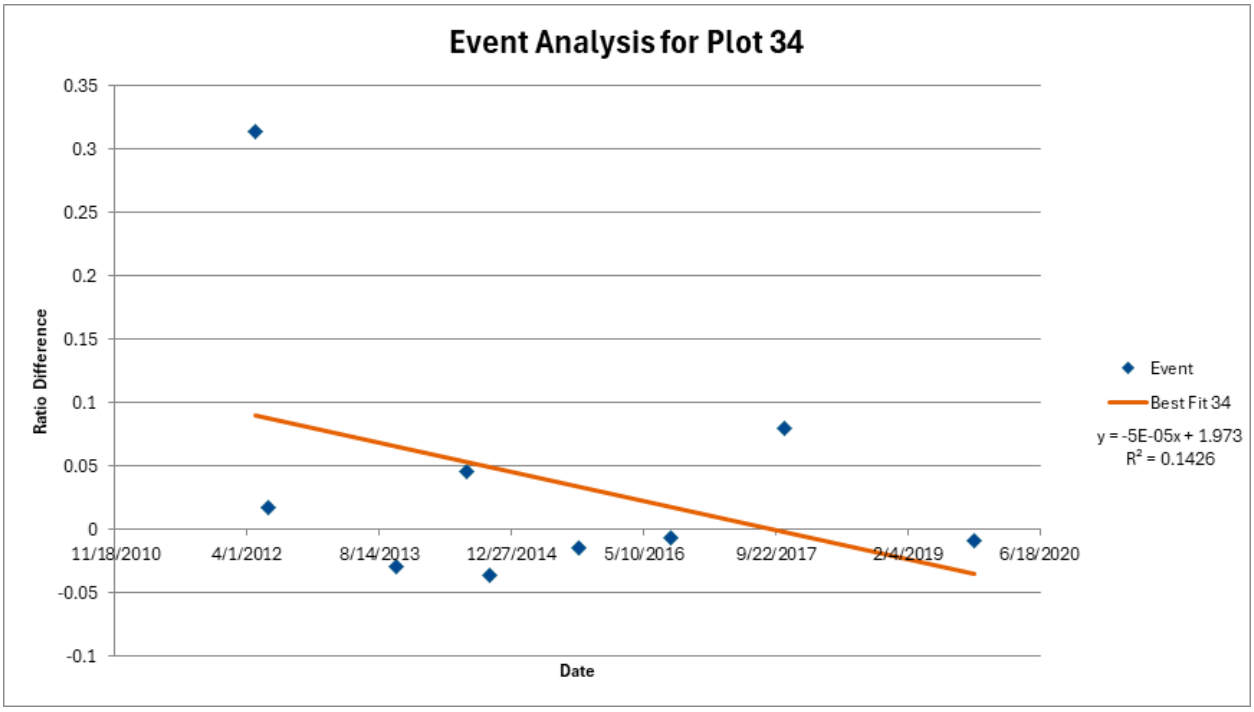

Event Analysis for Plot 29
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 29
y = -4E-06x + 0.1742
R² = 0.0004

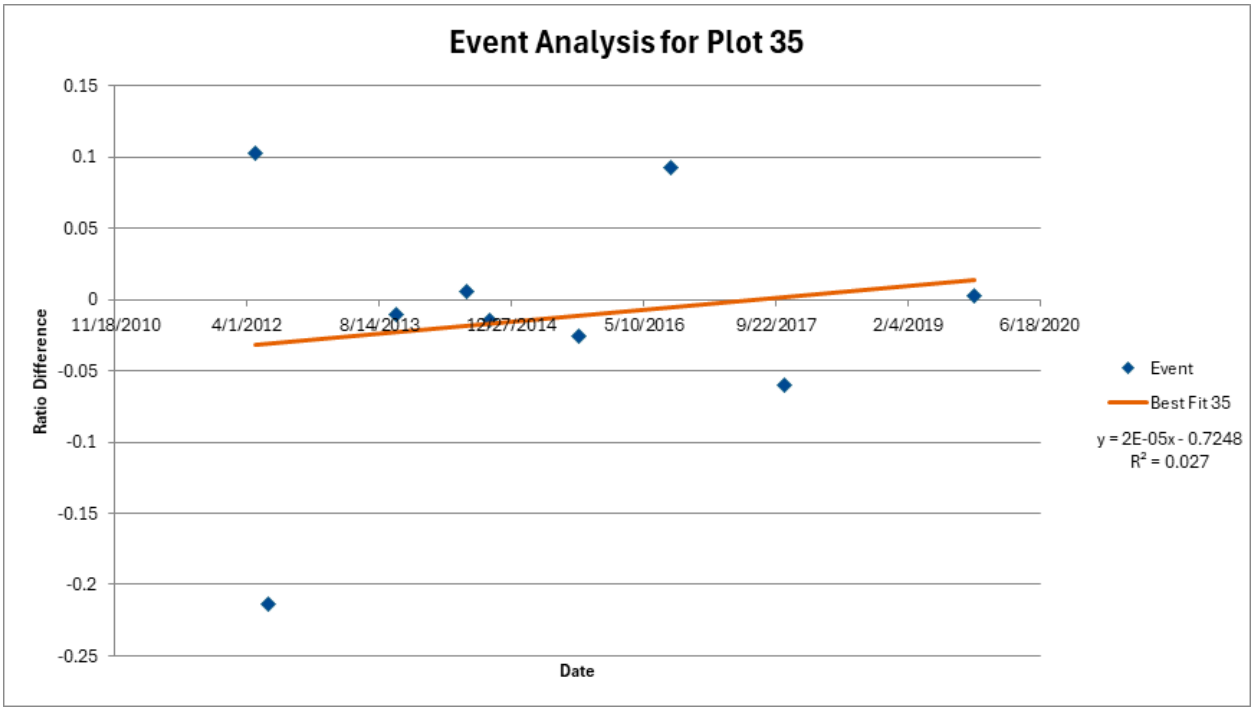

Event Analysis for Plot 30
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 30
y = 6E-06x - 0.2576
R² = 0.0046

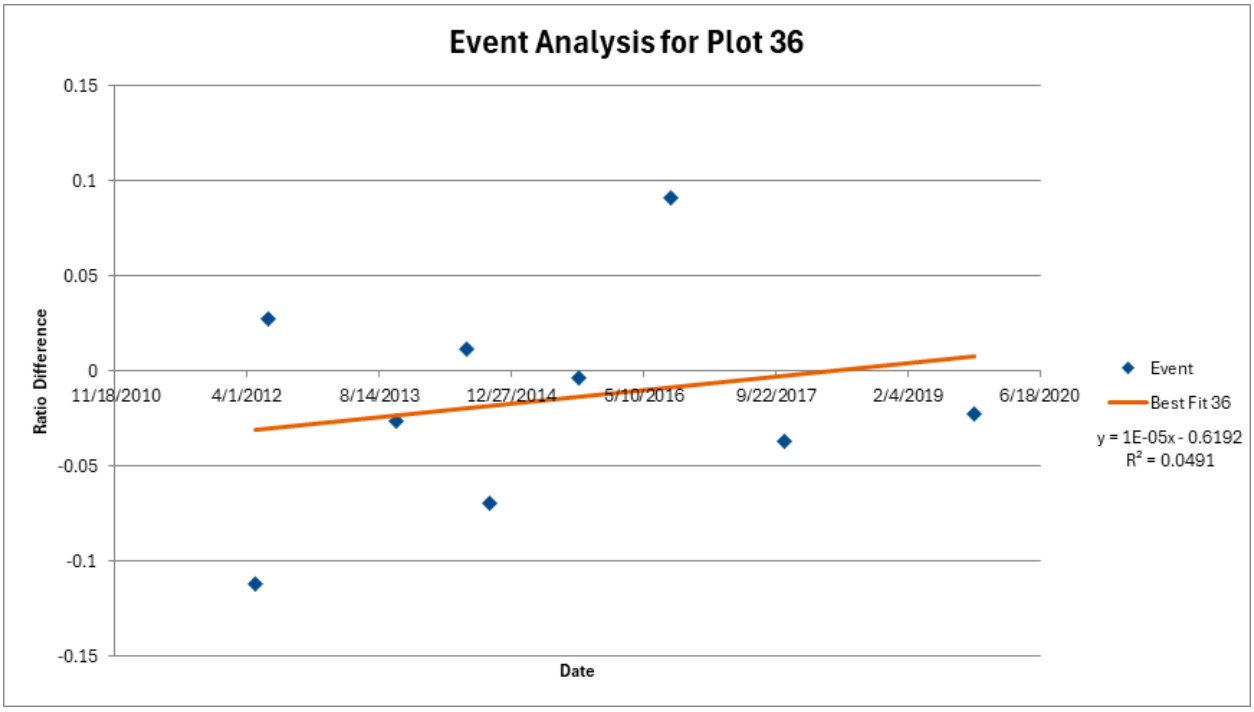

Event Analysis for Plot 31
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 31
y = 9E-07x - 0.0517
R² = 0.0002

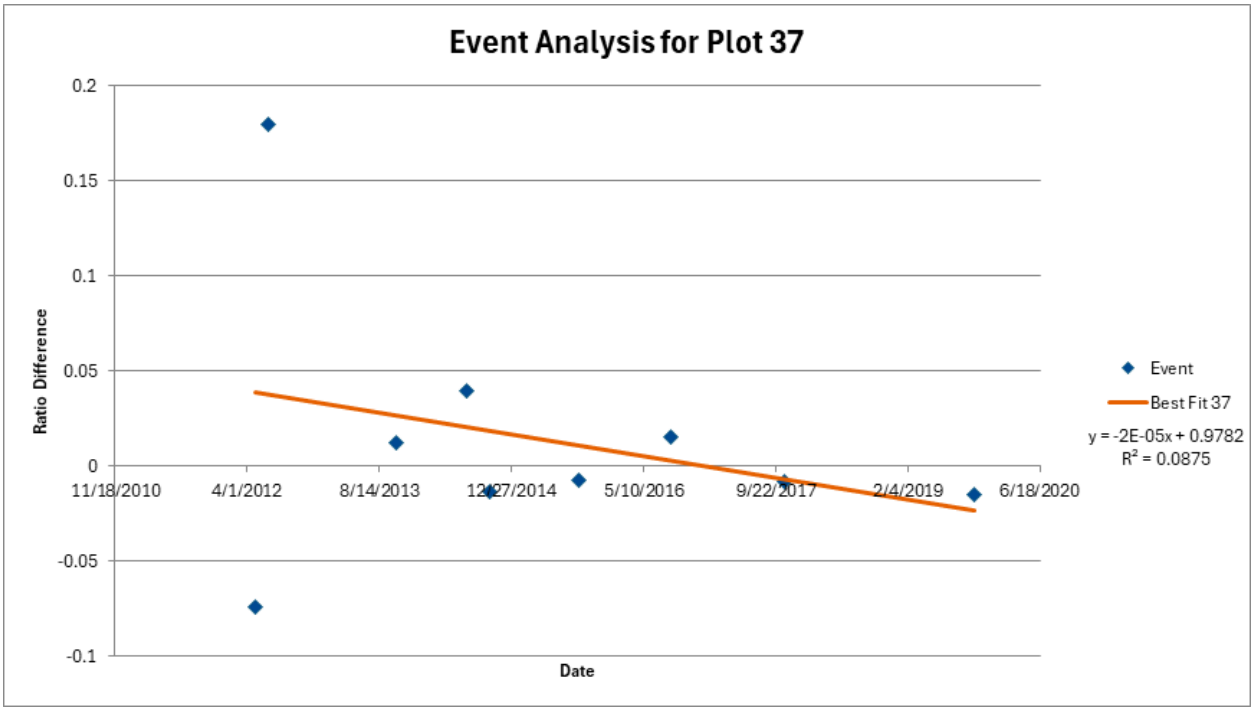

Event Analysis for Plot 32
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 32
y = 2E-05x - 0.7871
R² = 0.0959

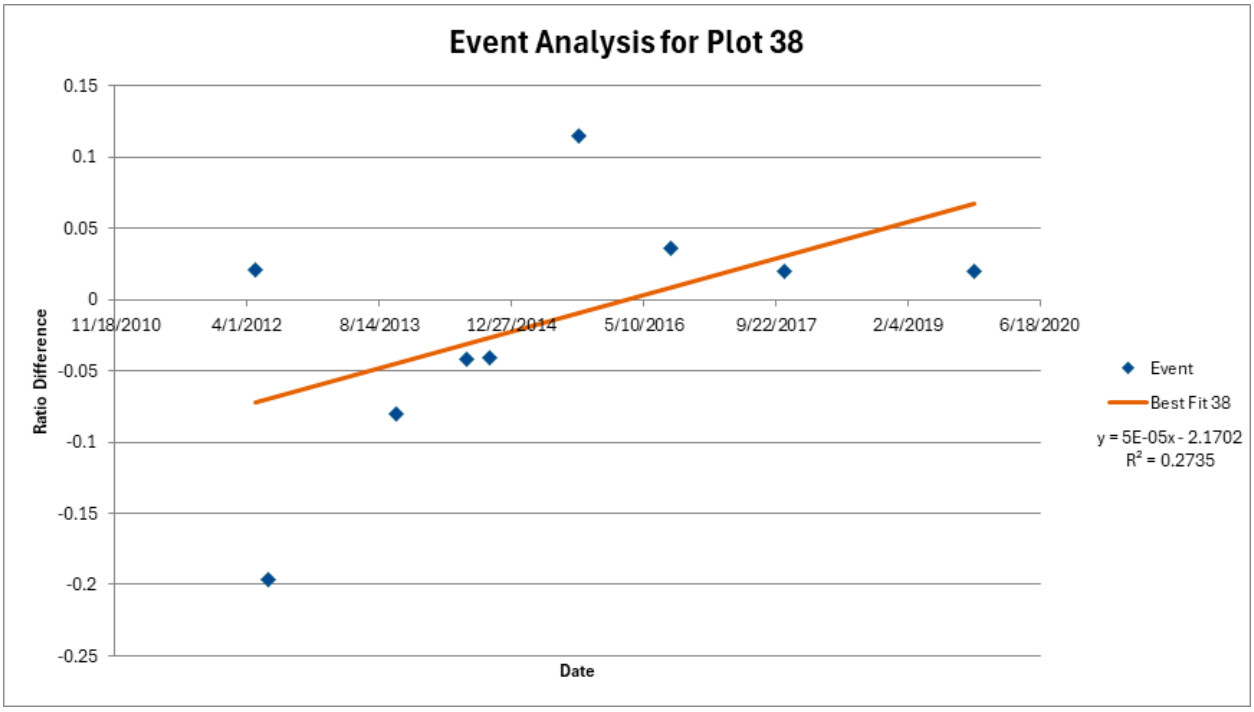

Event Analysis for Plot 33
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
Ratio Difference
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 33
y = -1E-05x + 0.4007
R² = 0.0357

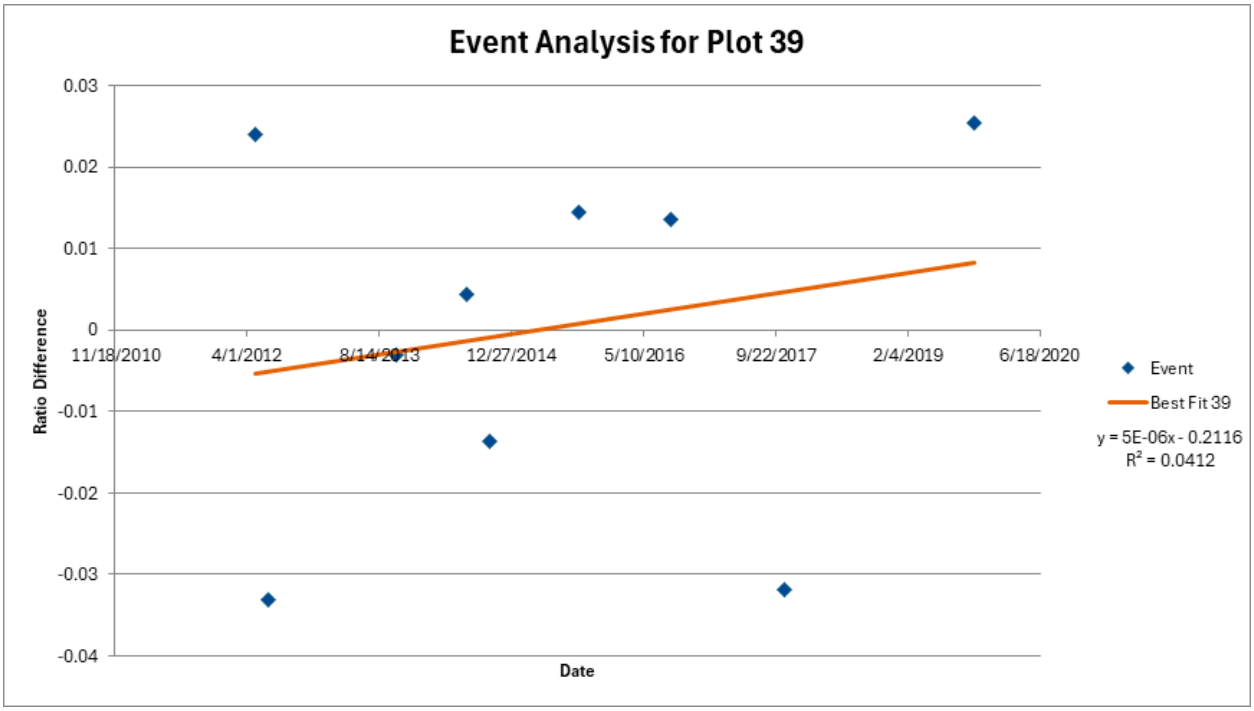

Event Analysis for Plot 34
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 34
y = -5E-05x + 1.973
R² = 0.1426

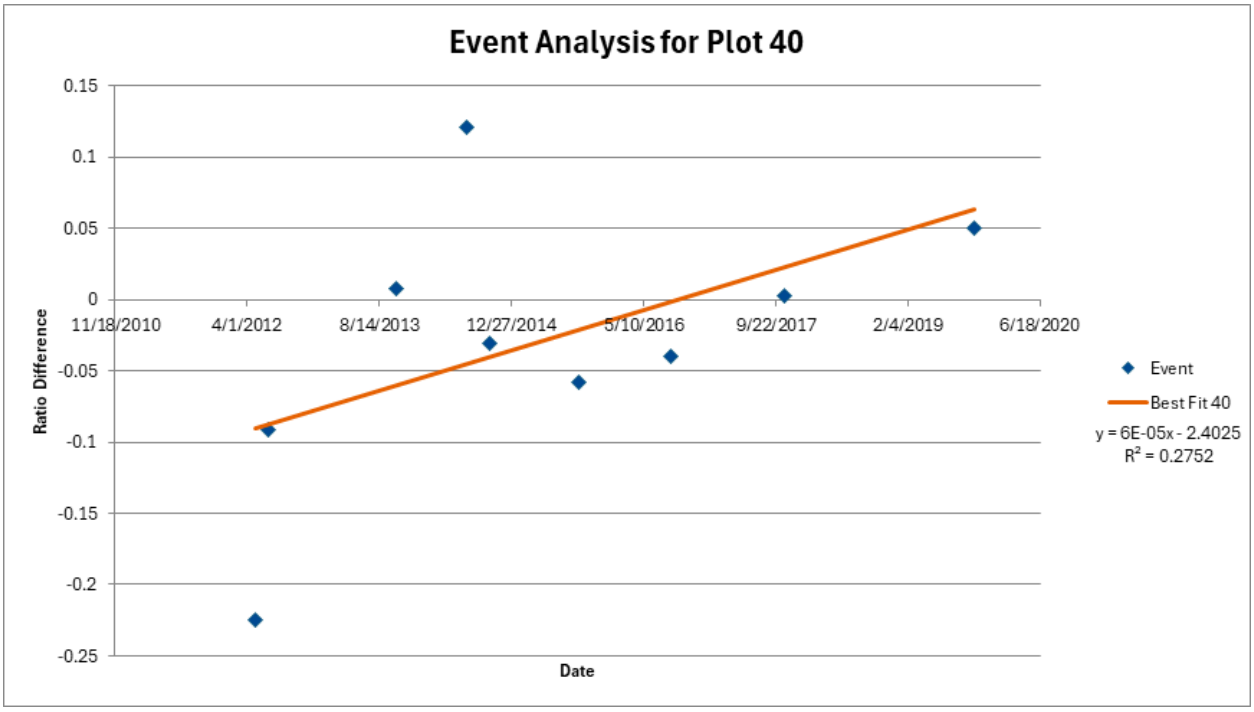

Event Analysis for Plot 35
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 35
y = 2E-05x - 0.7248
R² = 0.027

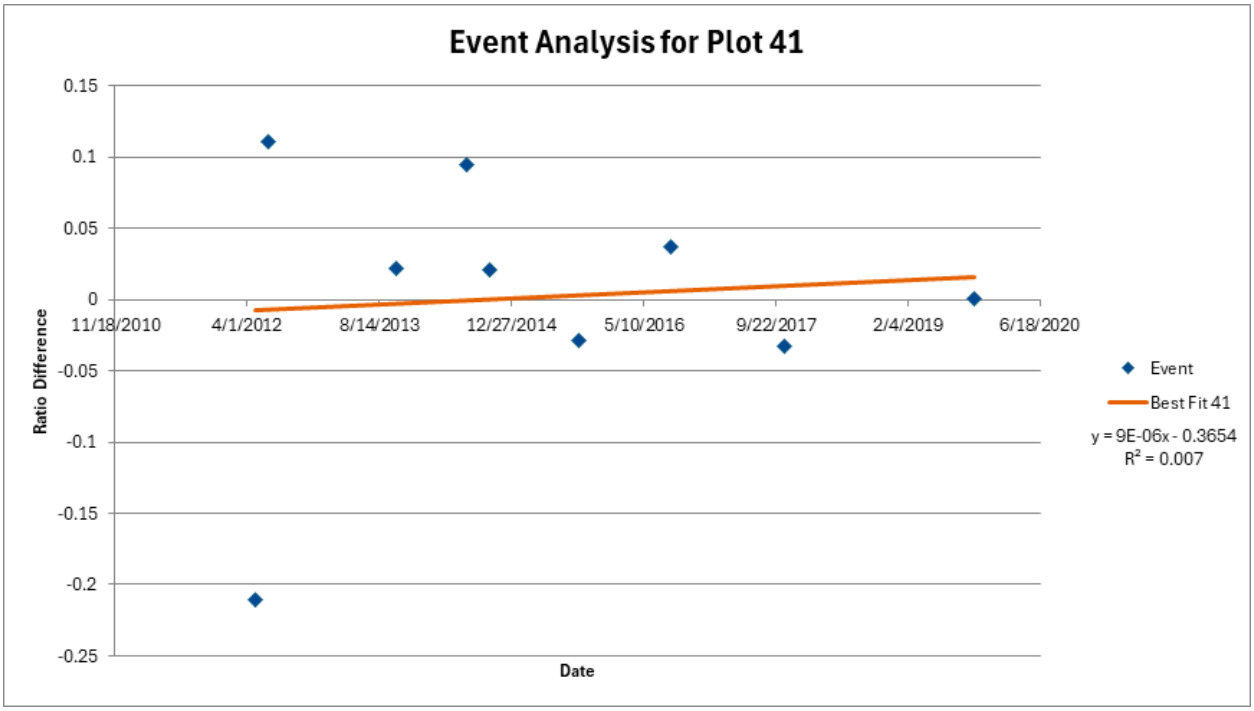

Event Analysis for Plot 36
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 36
y = 1E-05x - 0.6192
R² = 0.0491

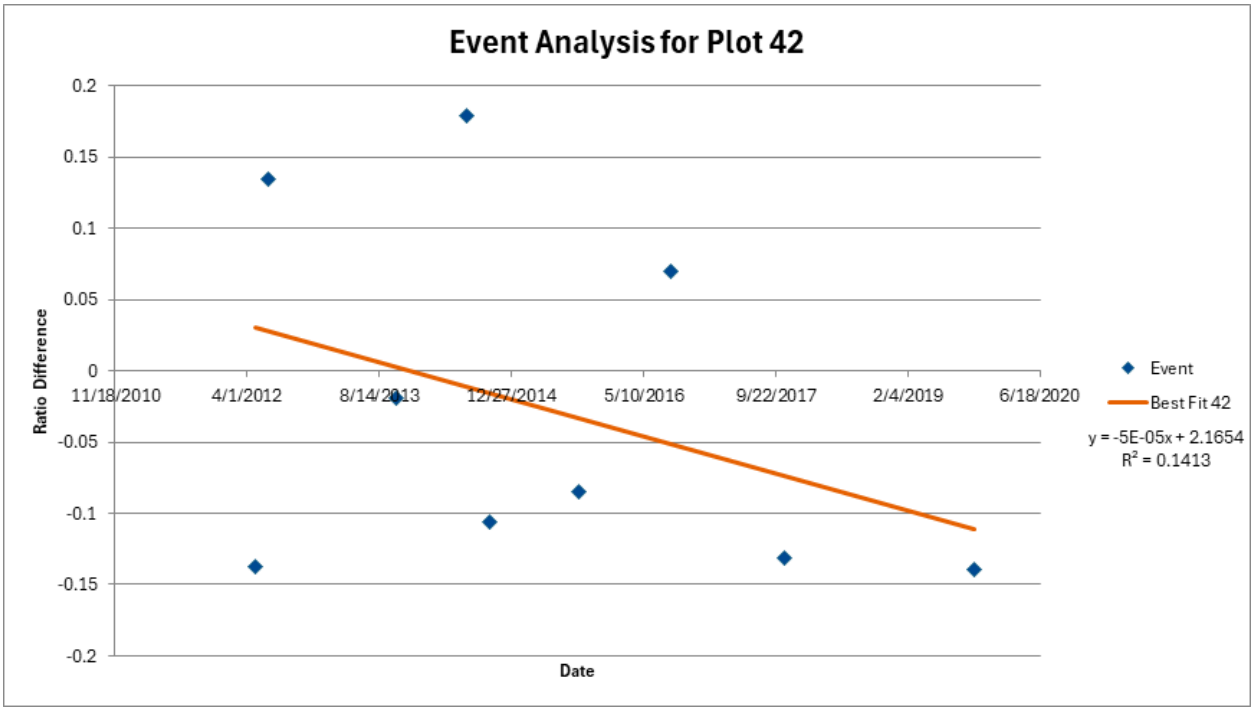

Event Analysis for Plot 37
0.2
0.15
0.1
0.05
0
-0.05
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 37
y = -2E-05x + 0.9782
R² = 0.0875

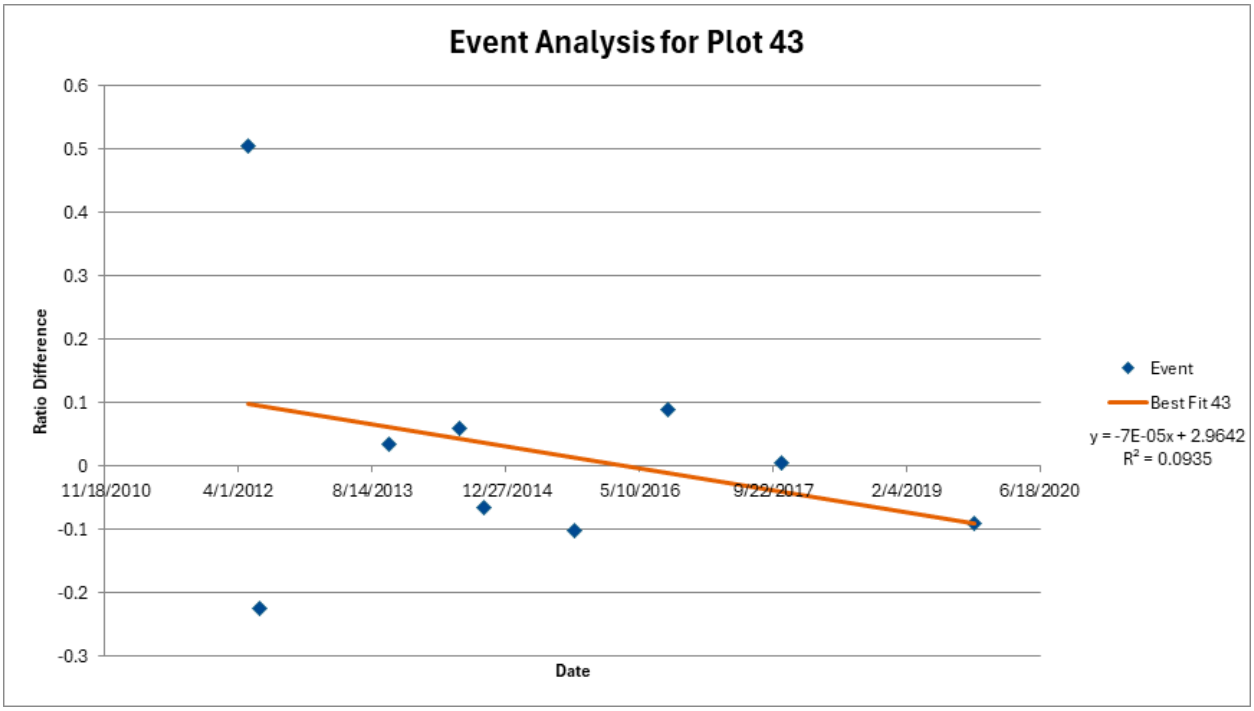

Event Analysis for Plot 38
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 38
y = 5E-05x - 2.1702
R² = 0.2735

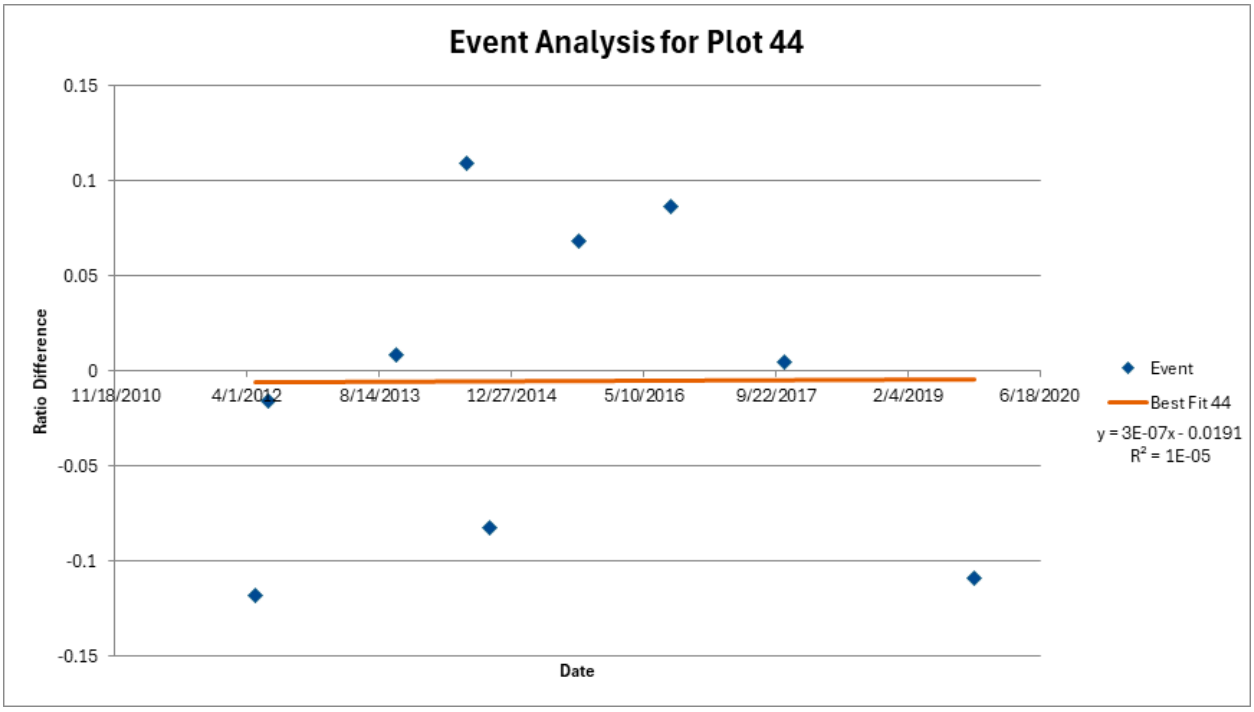

Event Analysis for Plot 39
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 39
y = 5E-06x - 0.2116
R² = 0.0412

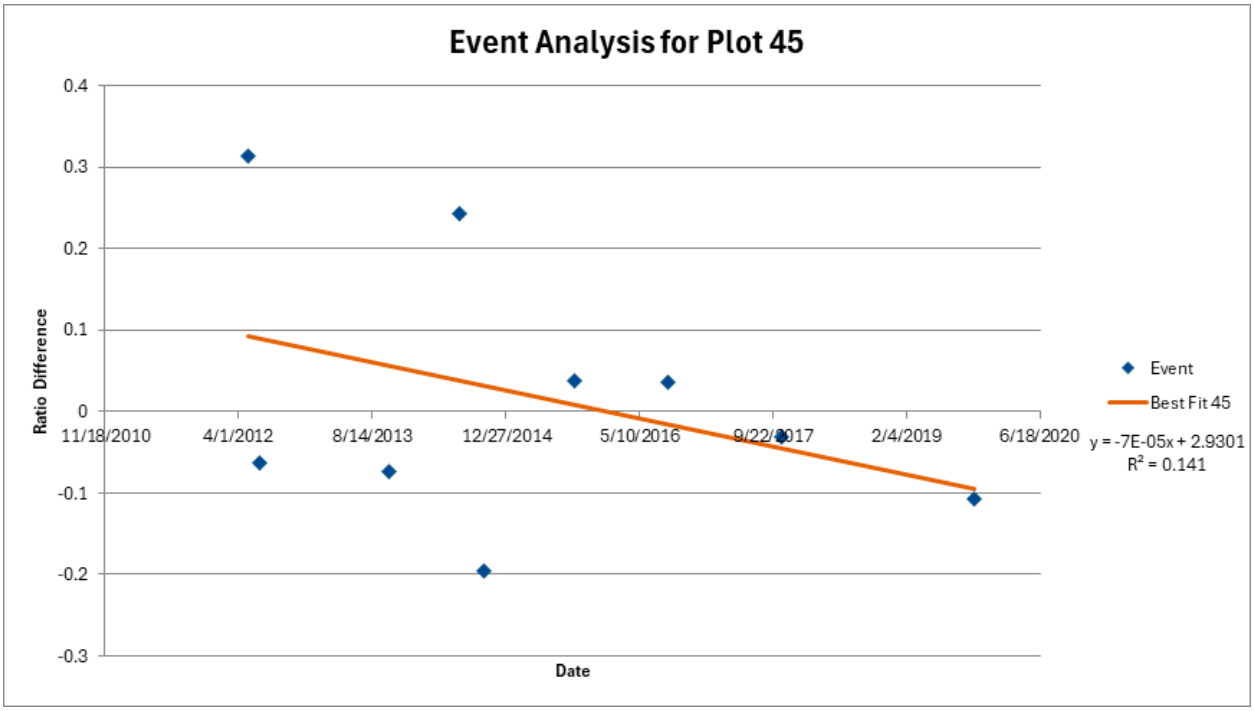

Event Analysis for Plot 40
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 40
y = 6E-05x - 2.4025
R² = 0.2752

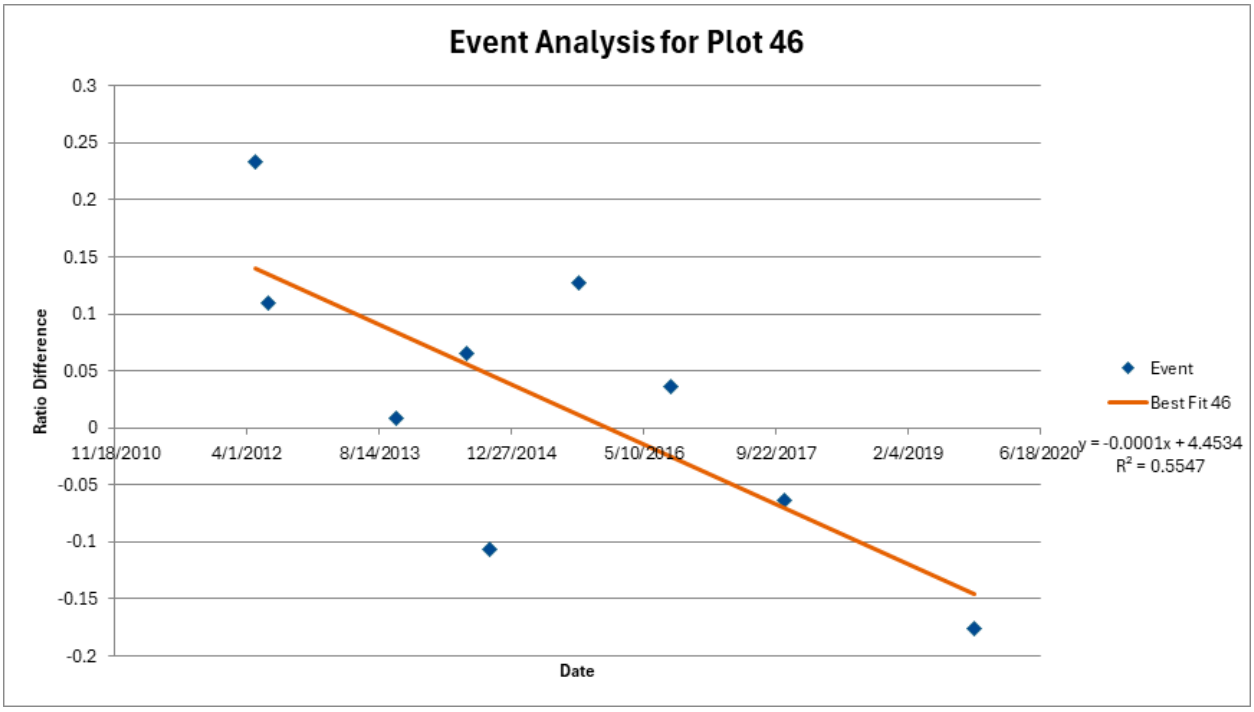

Event Analysis for Plot 41
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 41
y = 9E-06x - 0.3654
R² = 0.007

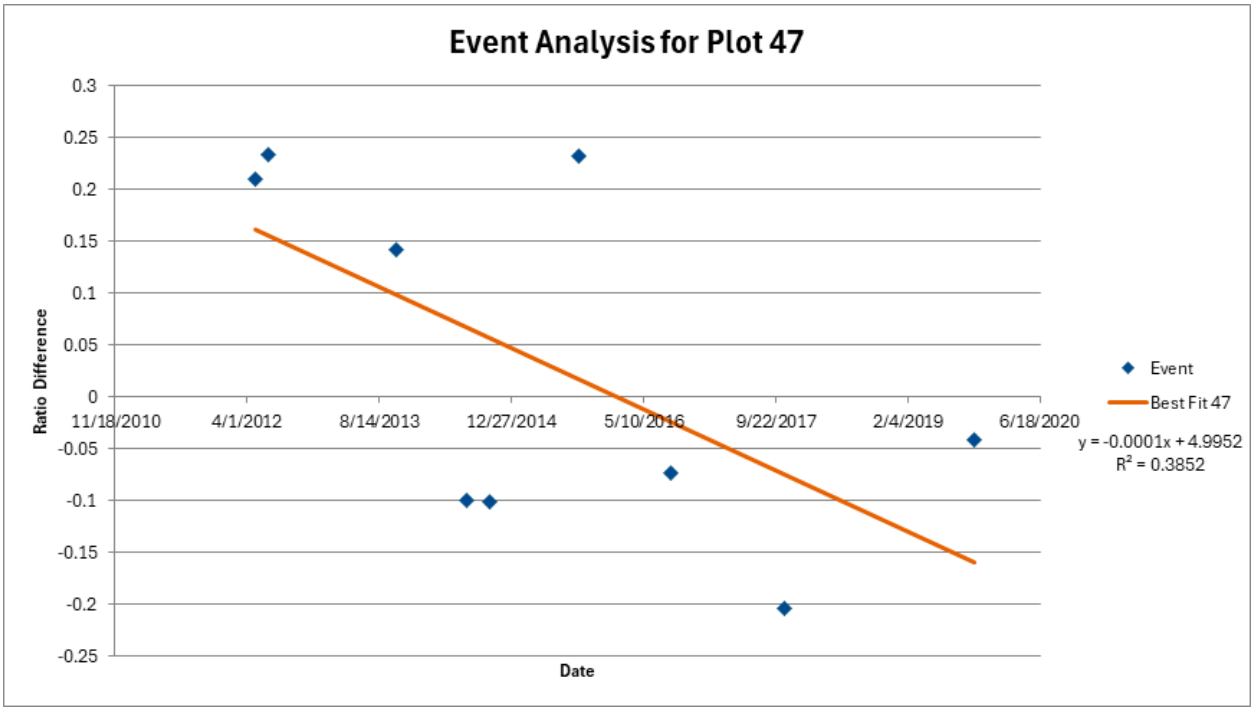

Event Analysis for Plot 42
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 42
y = -5E-05x + 2.1654
R² = 0.1413

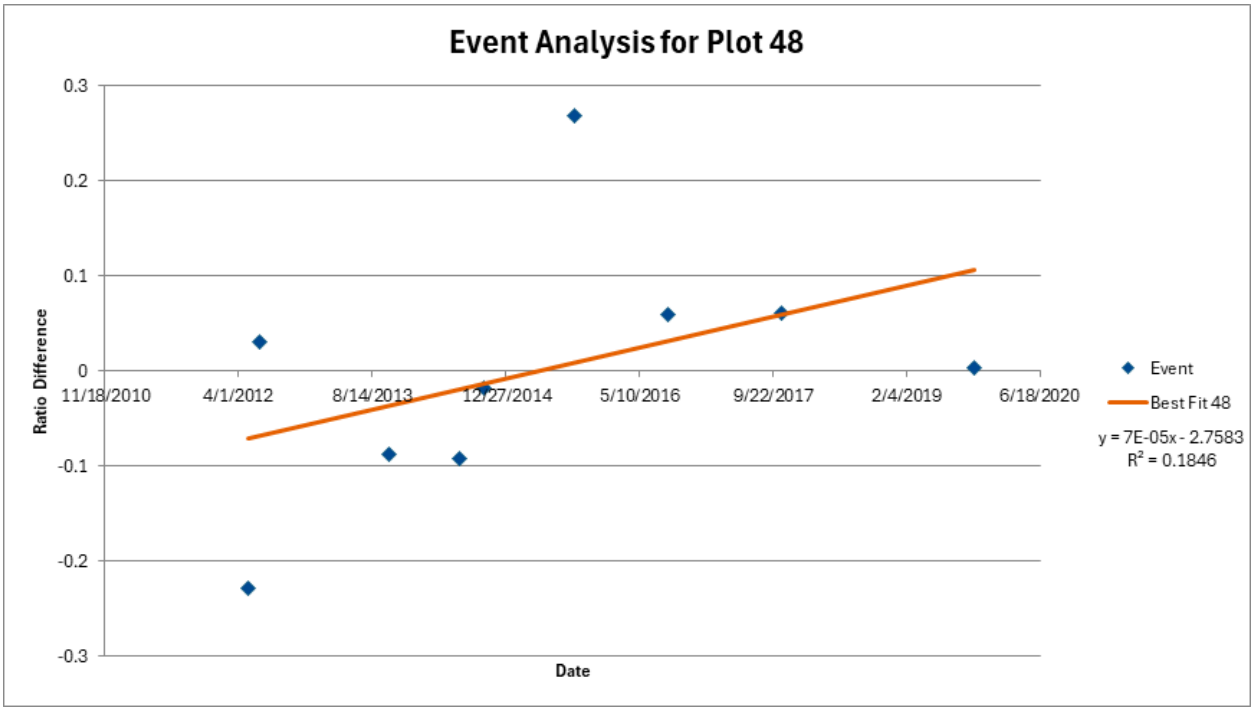

Event Analysis for Plot 43
Ratio Difference
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 43
y = -7E-05x + 2.9642
R² = 0.0935

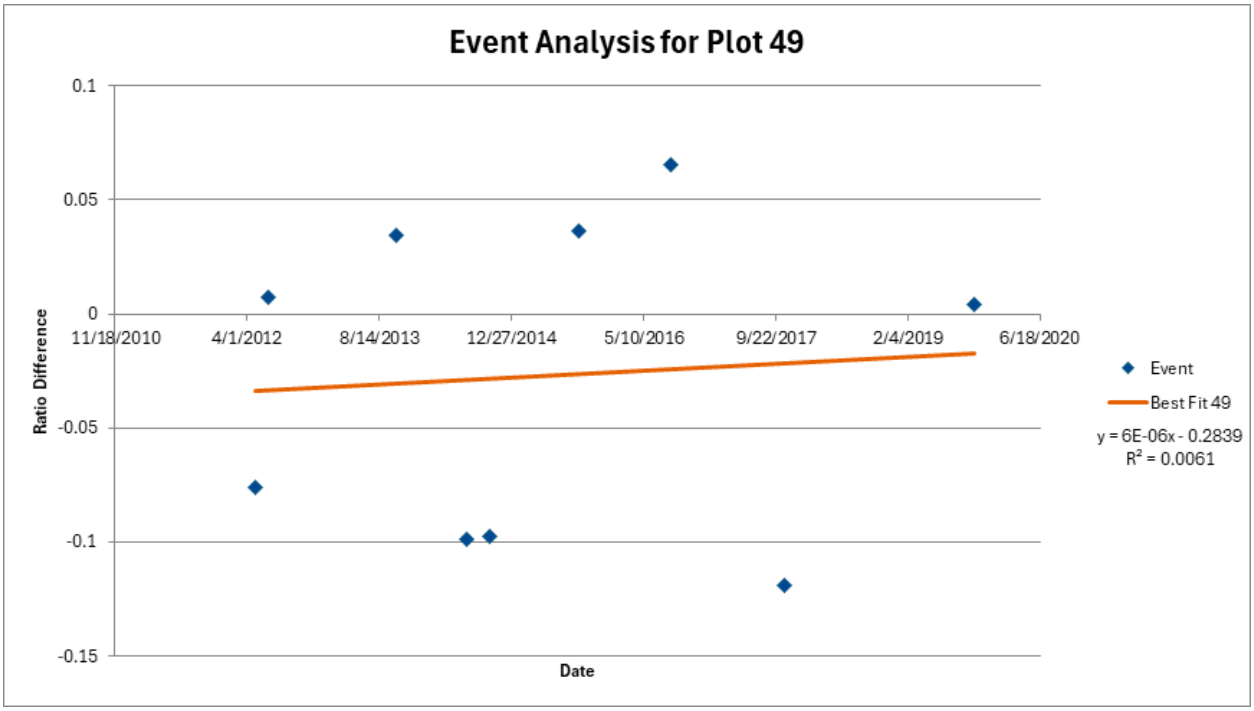

Event Analysis for Plot 44
Ratio Difference
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 44
y = 3E-07x - 0.0191
R² = 1E-05

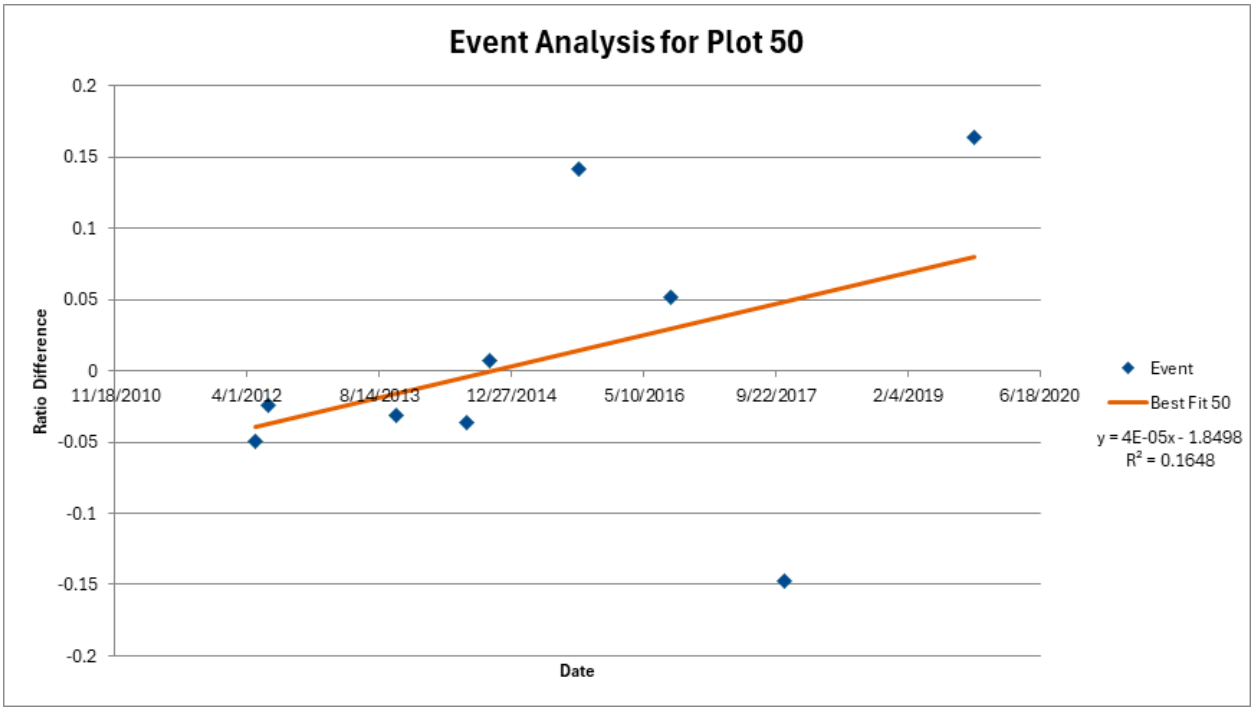

Event Analysis for Plot 45
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 45
y = -7E-05x + 2.9301
R² = 0.141

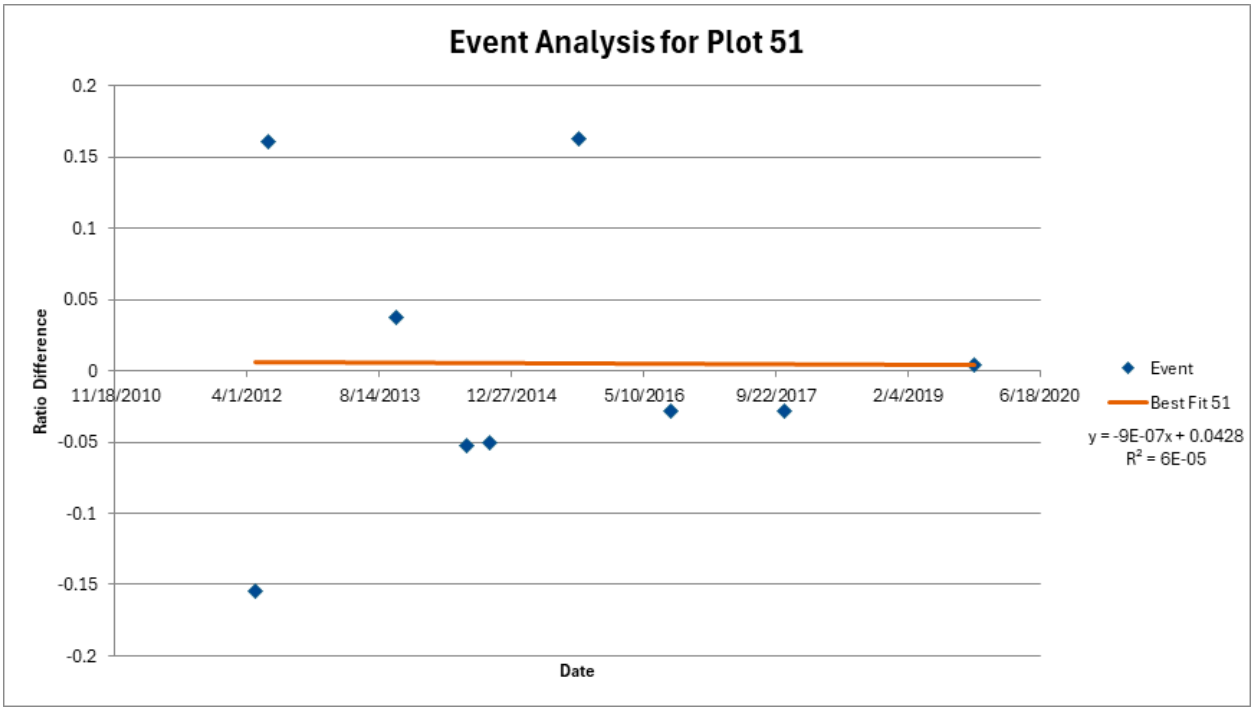

Event Analysis for Plot 46
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 46
y = -0.0001x + 4.4534
R² = 0.5547

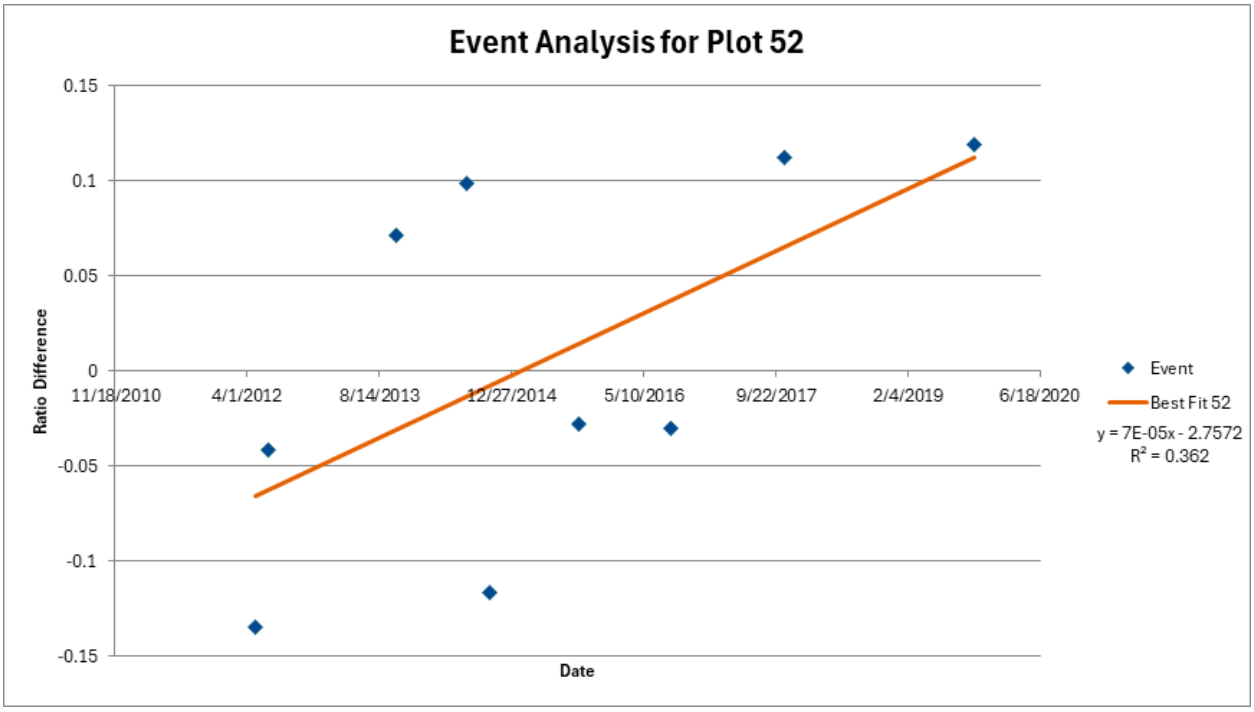

Event Analysis for Plot 47
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 47
y = -0.0001x + 4.9952
R² = 0.3852

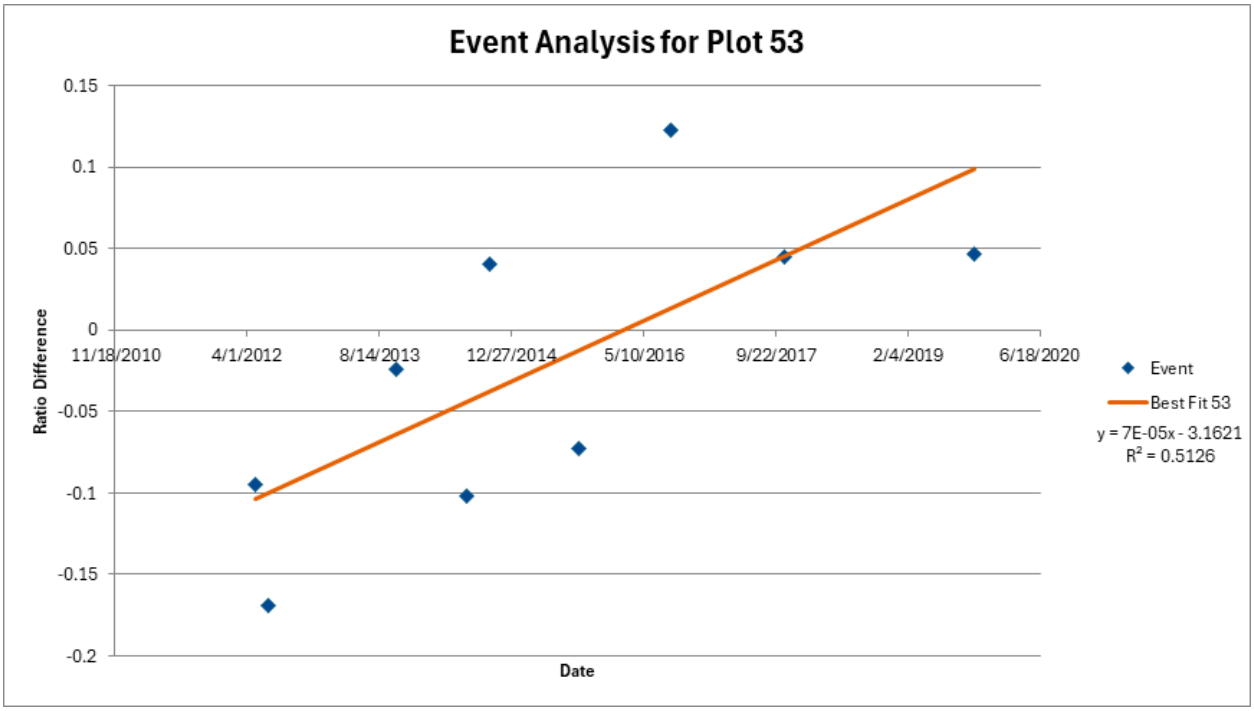

Event Analysis for Plot 48
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 48
y = 7E-05x - 2.7583
R² = 0.1846

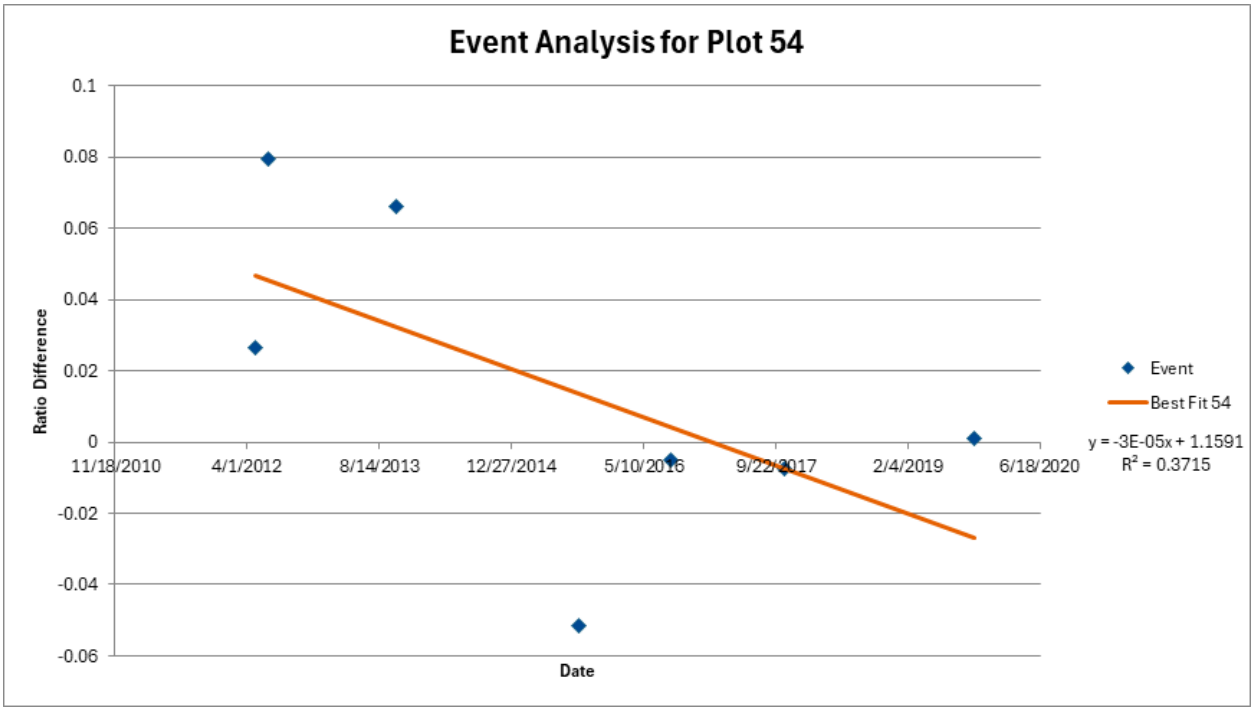

Event Analysis for Plot 49
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 49
y = 6E-06x - 0.2839
R² = 0.0061

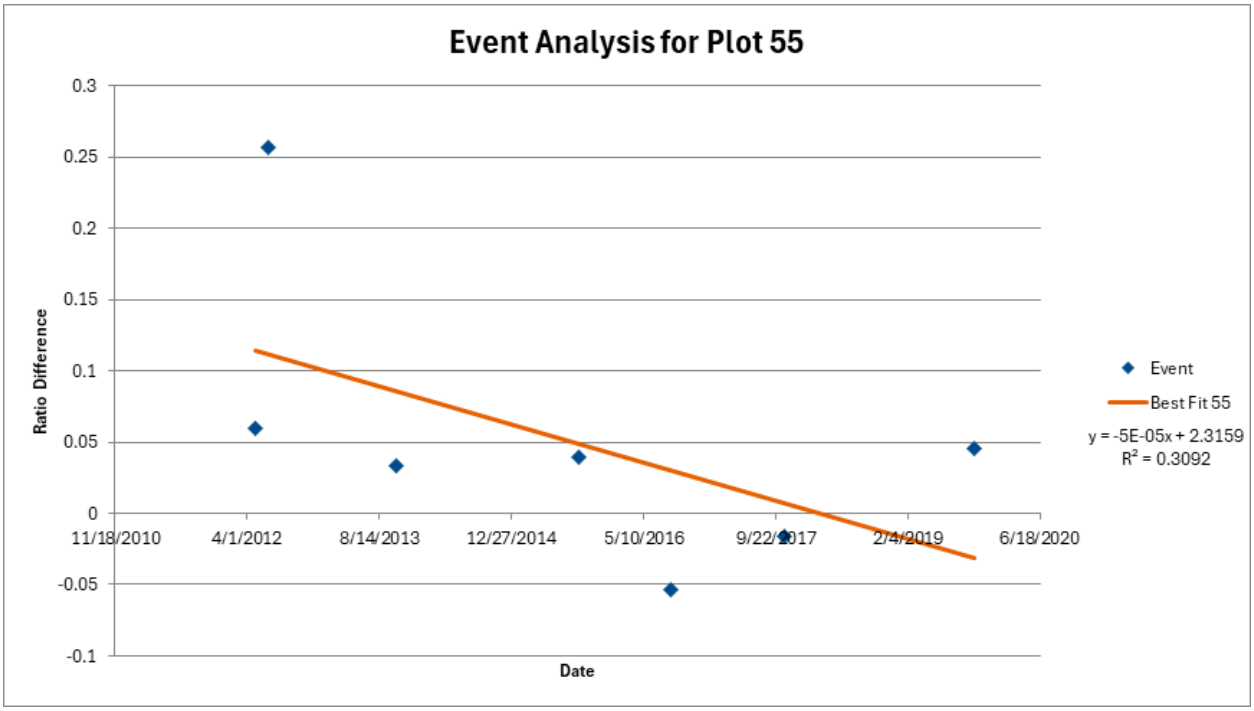

Event Analysis for Plot 50
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 50
y = 4E-05x - 1.8498
R² = 0.1648

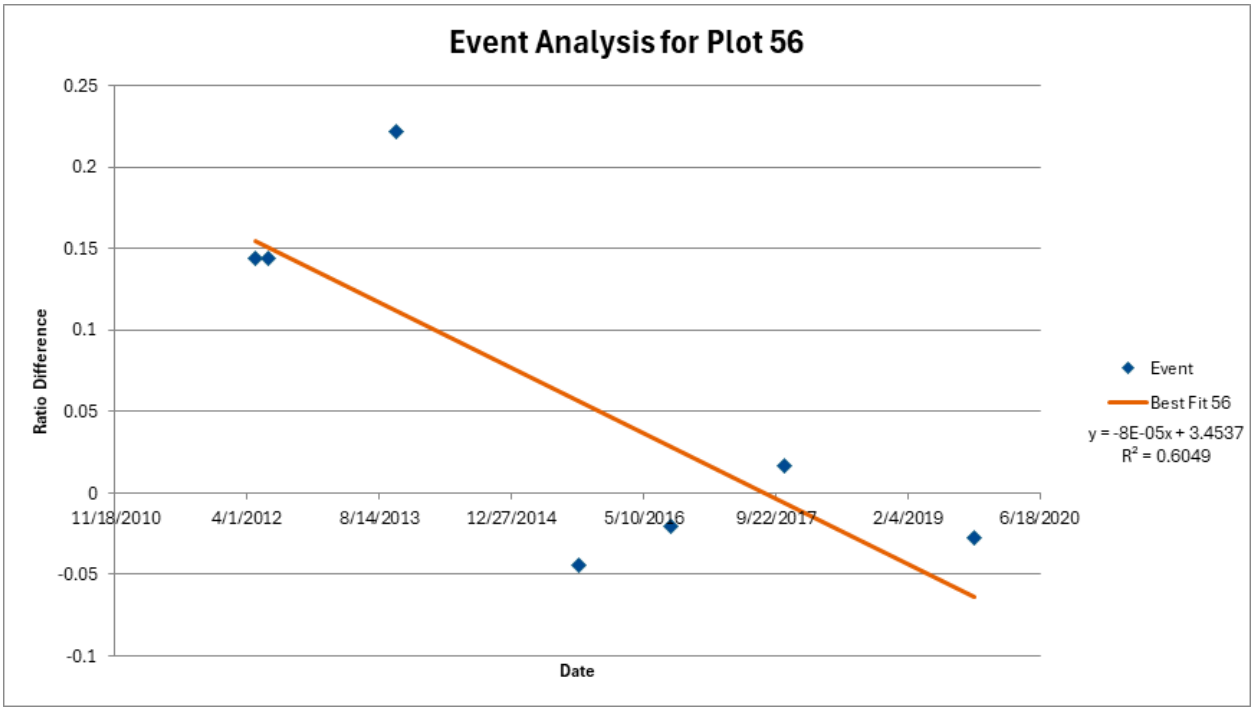

Event Analysis for Plot 51
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 51
y = -9E-07x + 0.0428
R² = 6E-05

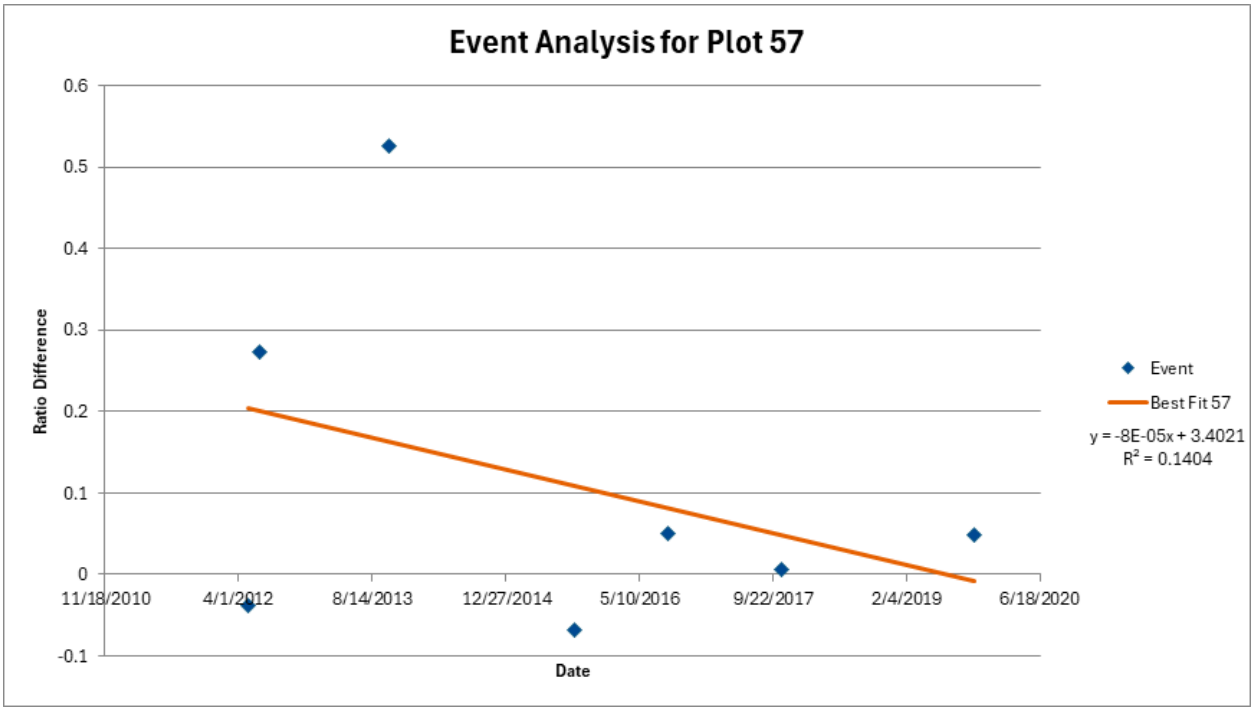

Event Analysis for Plot 52
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 52
y = 7E-05x - 2.7572
R² = 0.362

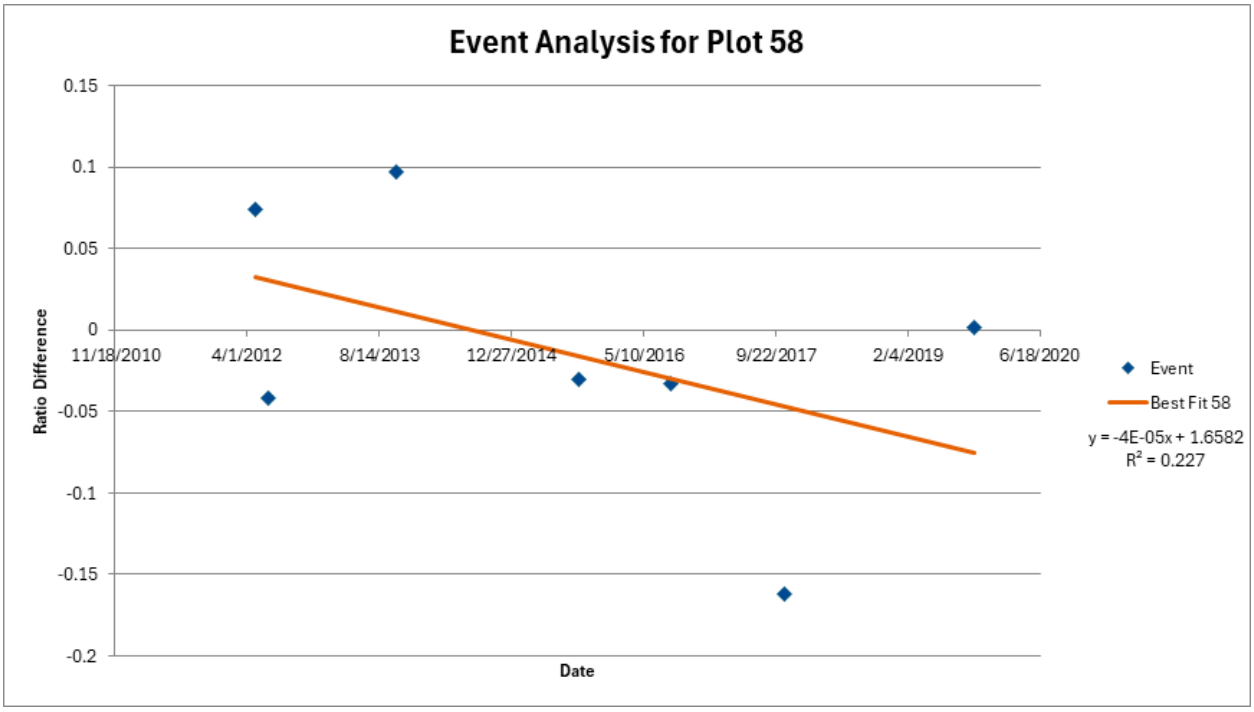

Event Analysis for Plot 53
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 53
y = 7E-05x - 3.1621
R² = 0.5126

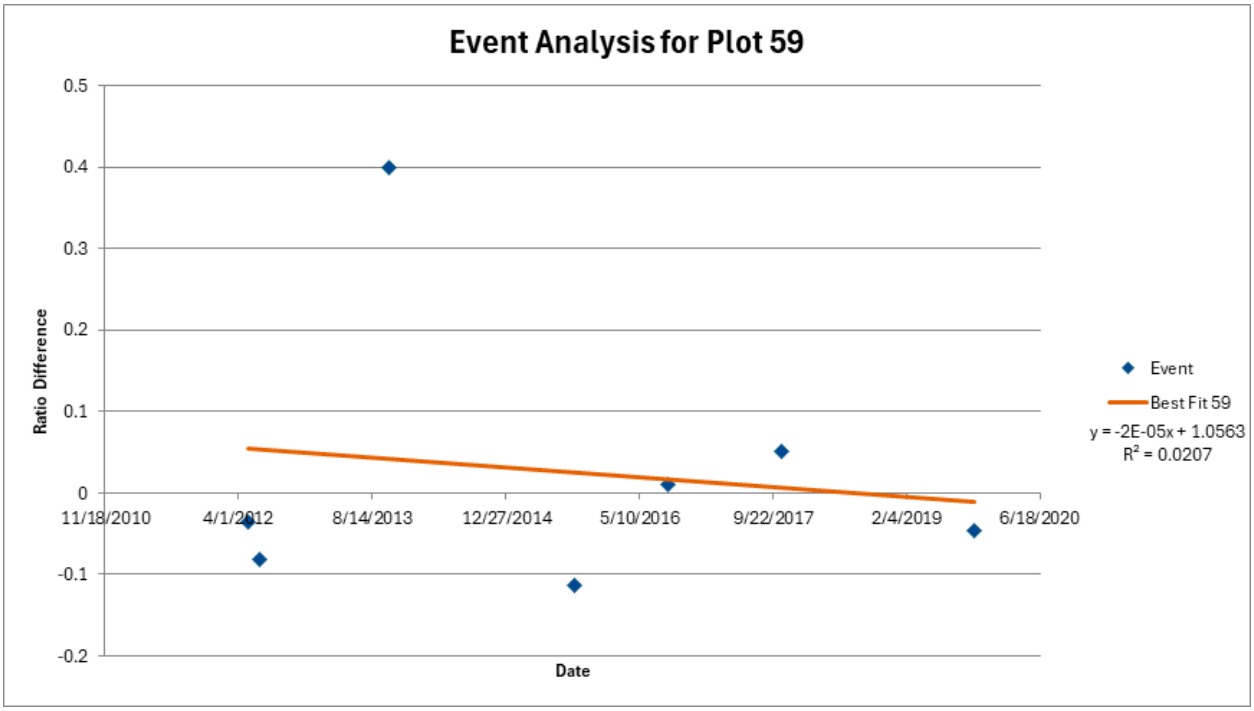

Event Analysis for Plot 54
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 54
y = -3E-05x + 1.1591
R² = 0.3715

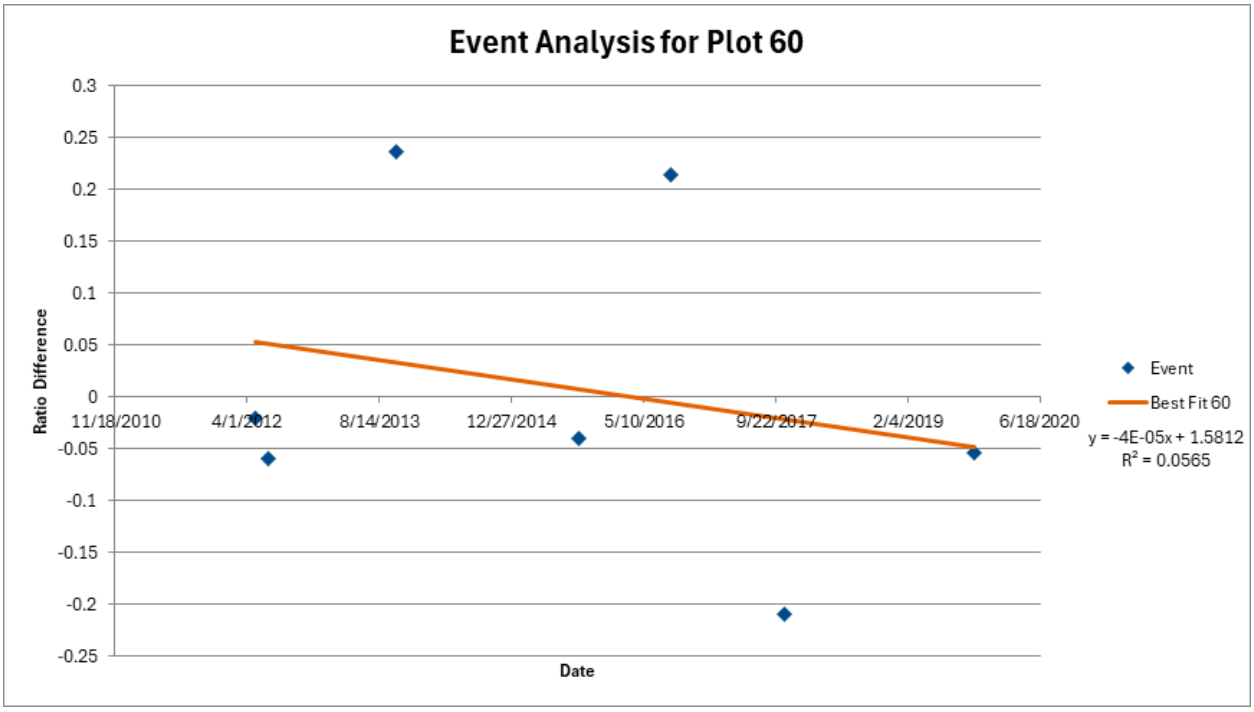

Event Analysis for Plot 55
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 55
y = -5E-05x + 2.3159
R² = 0.3092

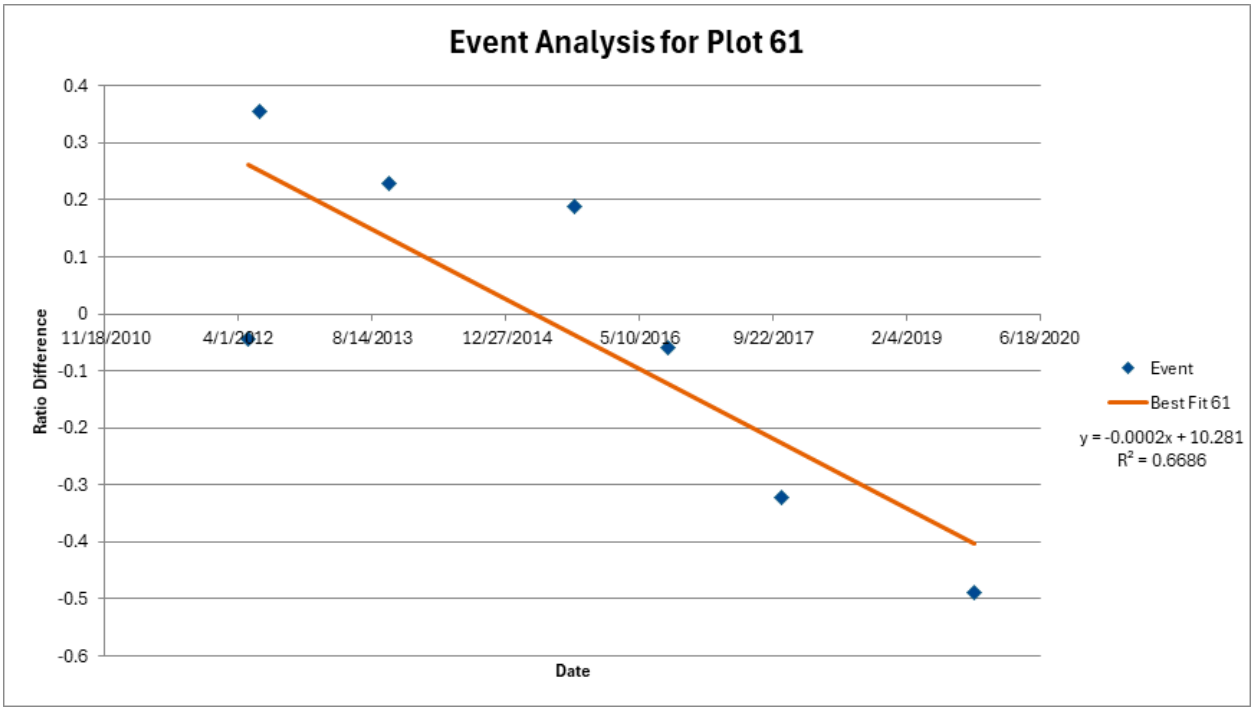

Event Analysis for Plot 56
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 56
y = -8E-05x + 3.4537
R² = 0.6049

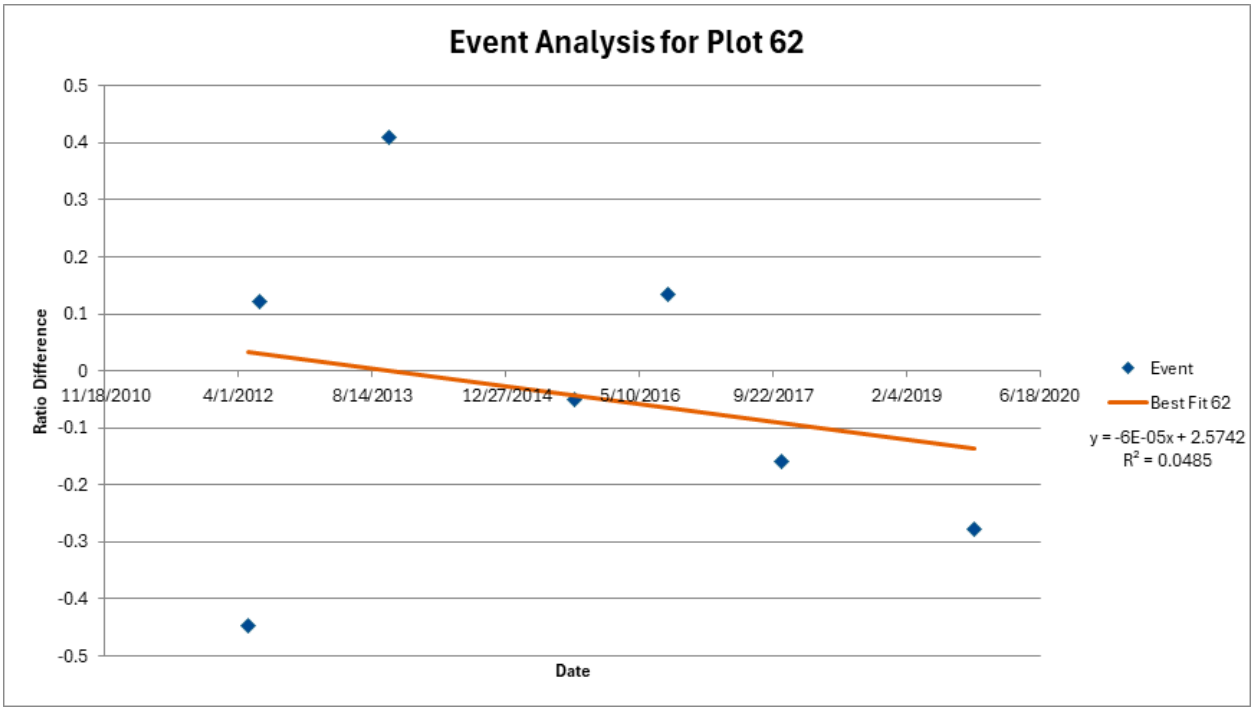

Event Analysis for Plot 57
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 57
y = -8E-05x + 3.4021
R² = 0.1404

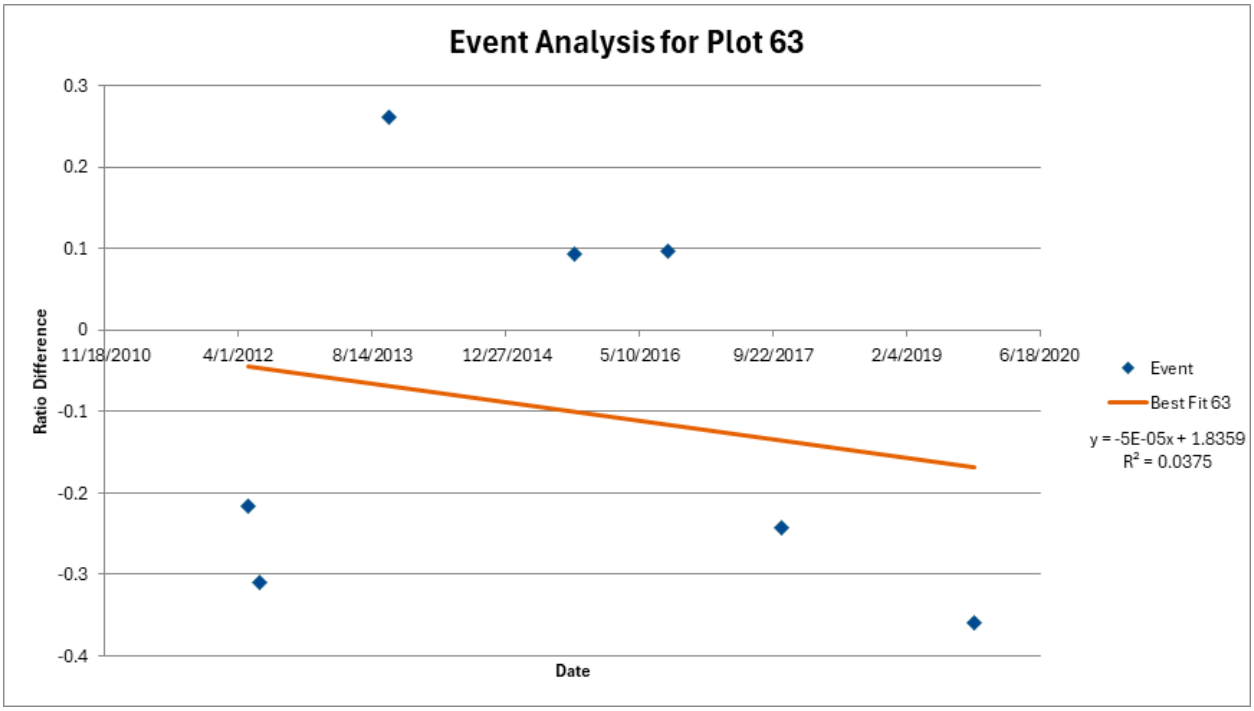

Event Analysis for Plot 58
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 58
y = -4E-05x + 1.6582
R² = 0.227

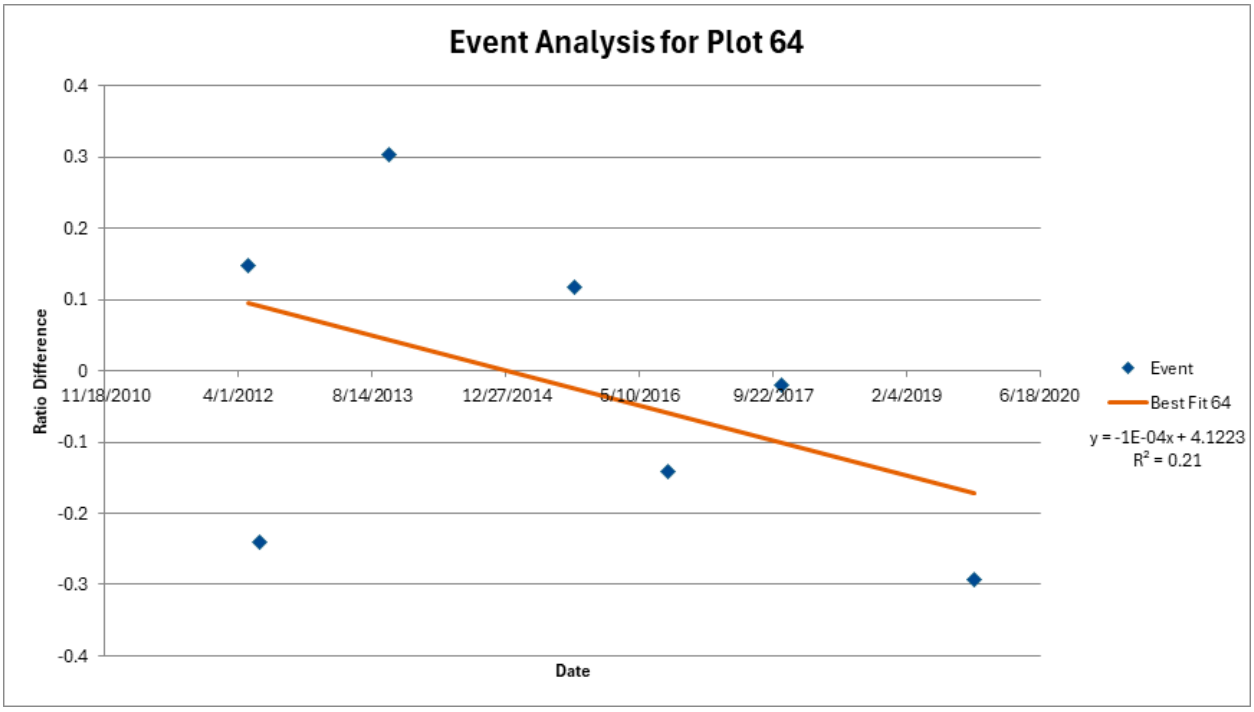

Event Analysis for Plot 59
Ratio Difference
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 59
y = -2E-05x + 1.0563
R² = 0.0207

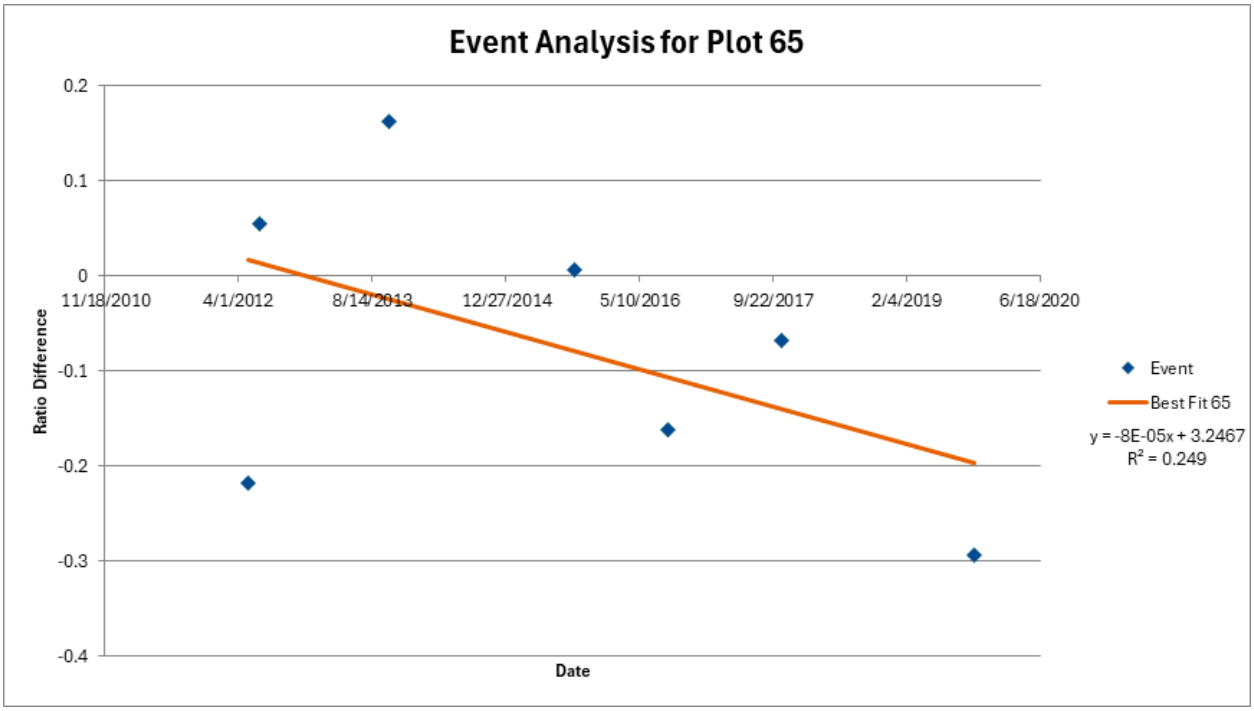

Event Analysis for Plot 60
Ratio Difference
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 60
y = -4E-05x + 1.5812
R² = 0.0565

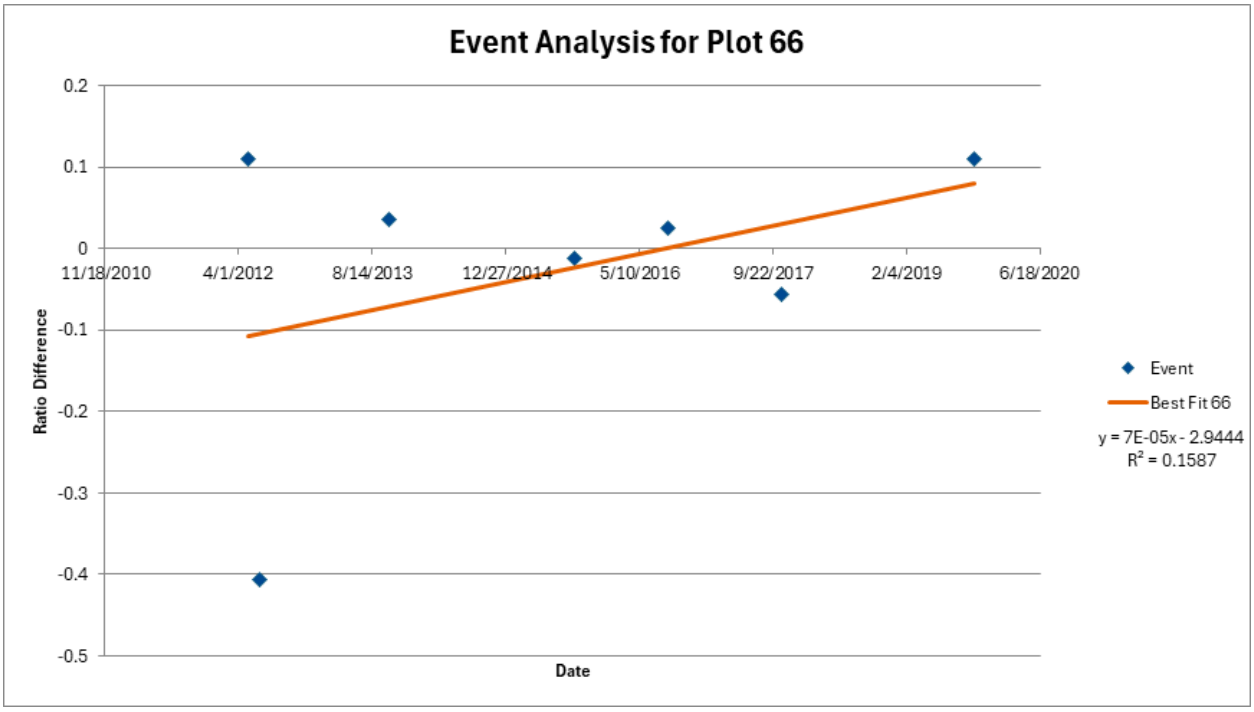

Event Analysis for Plot 61
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 61
y = -0.0002x + 10.281
R² = 0.6686

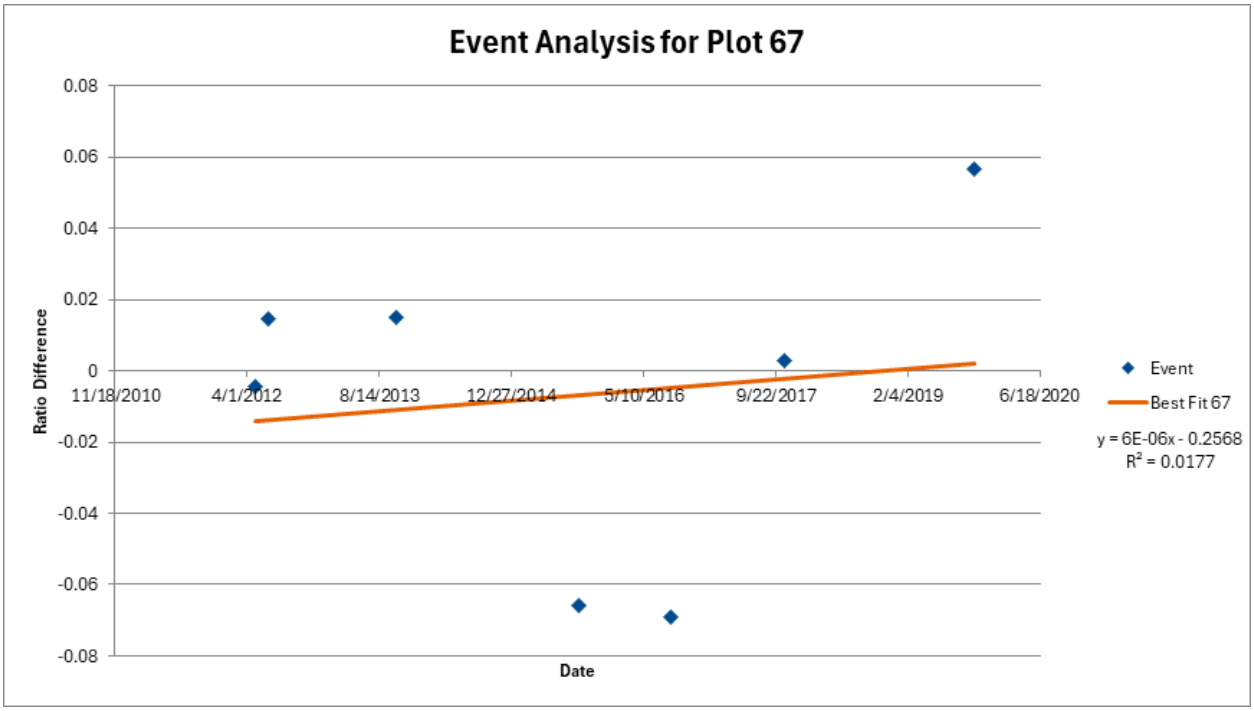

Event Analysis for Plot 62
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 62
y = -6E-05x + 2.5742
R² = 0.0485

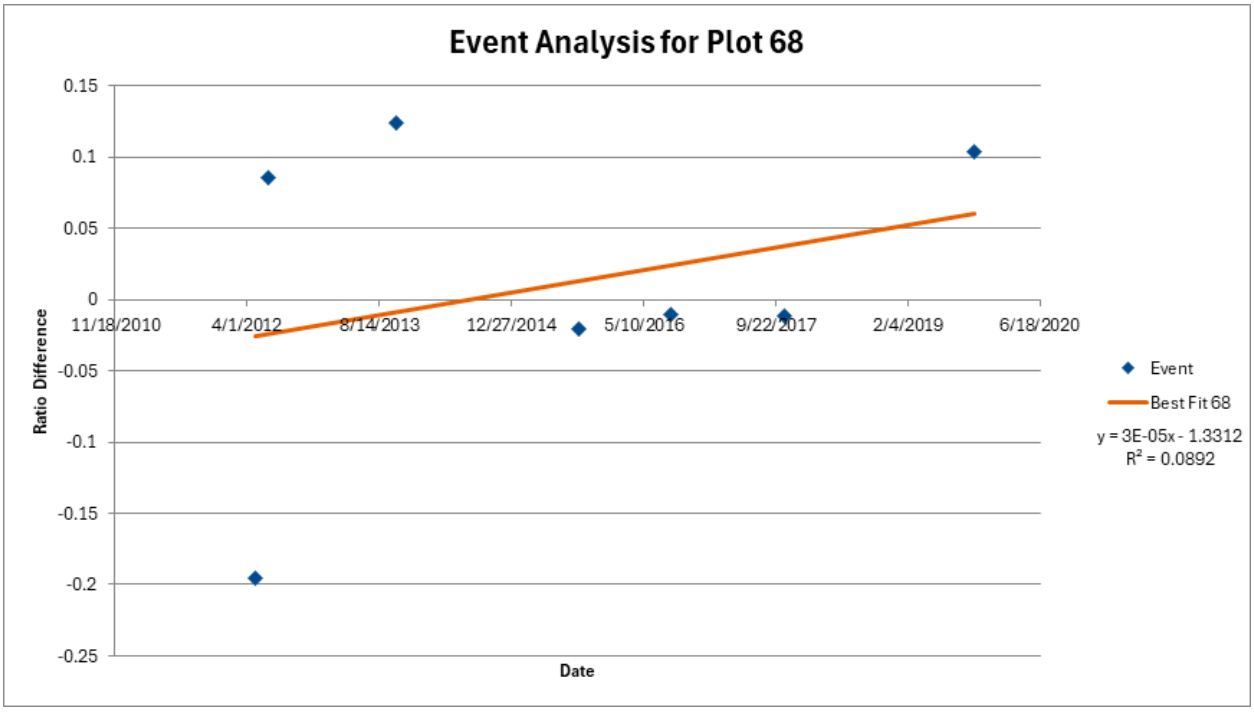

Event Analysis for Plot 63
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 63
y = -5E-05x + 1.8359
R² = 0.0375

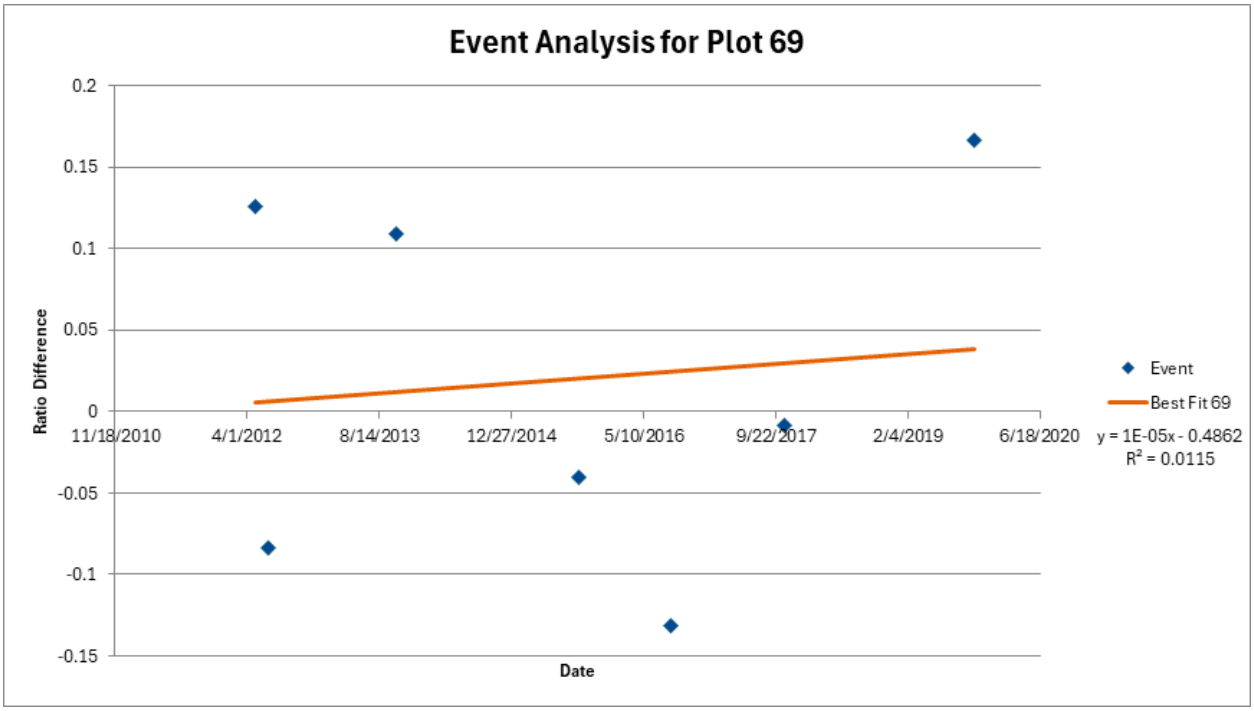

Event Analysis for Plot 64
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 64
y = -1E-04x + 4.1223
R² = 0.21

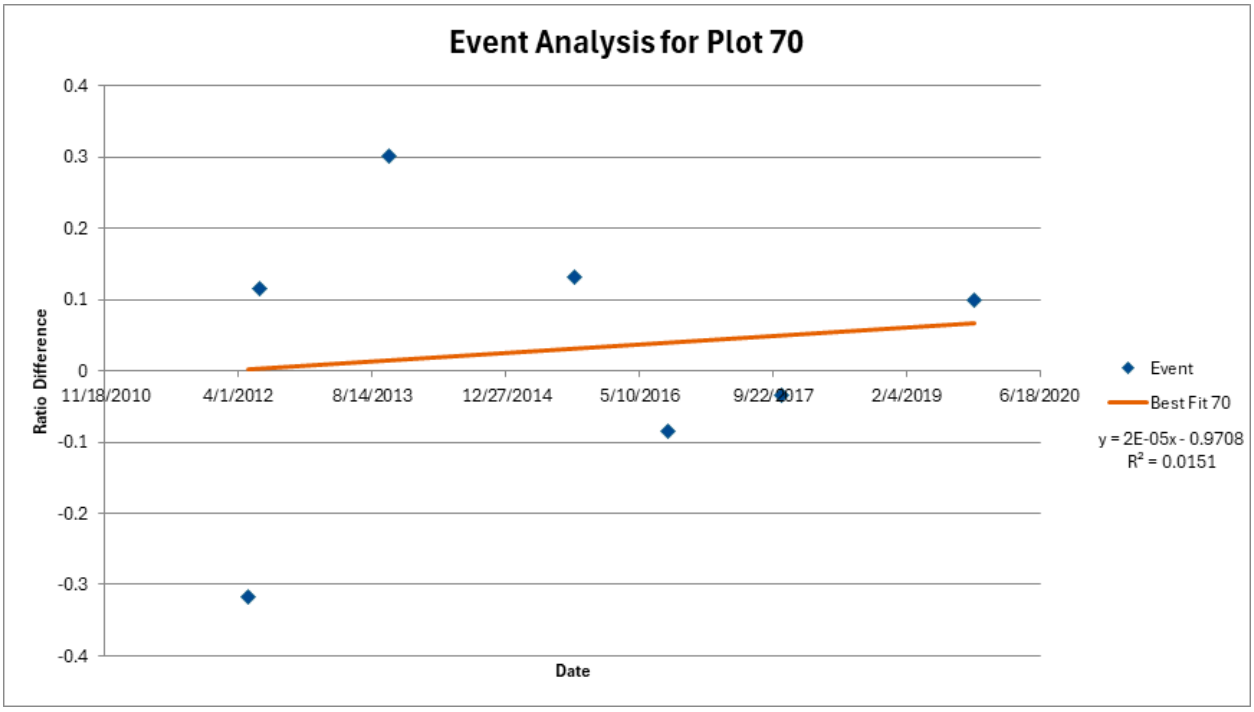

Event Analysis for Plot 65
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 65
y = -8E-05x + 3.2467
R² = 0.249

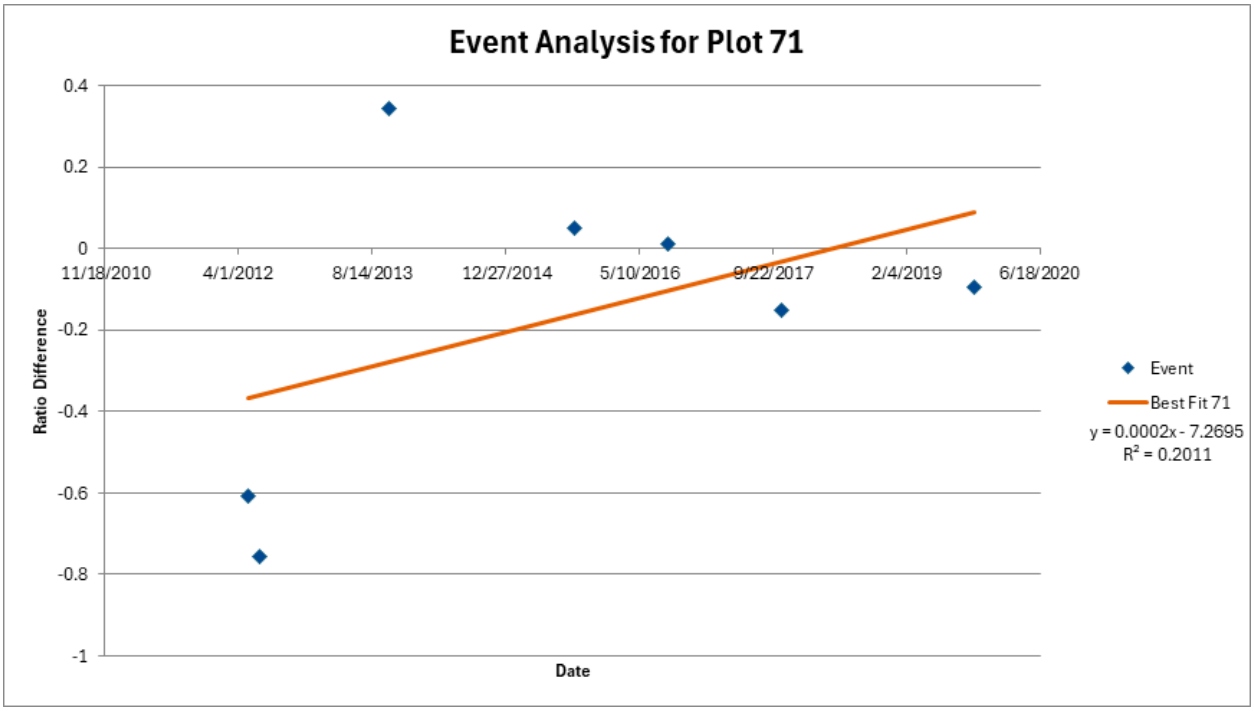

Event Analysis for Plot 66
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 66
y = 7E-05x - 2.9444
R² = 0.1587

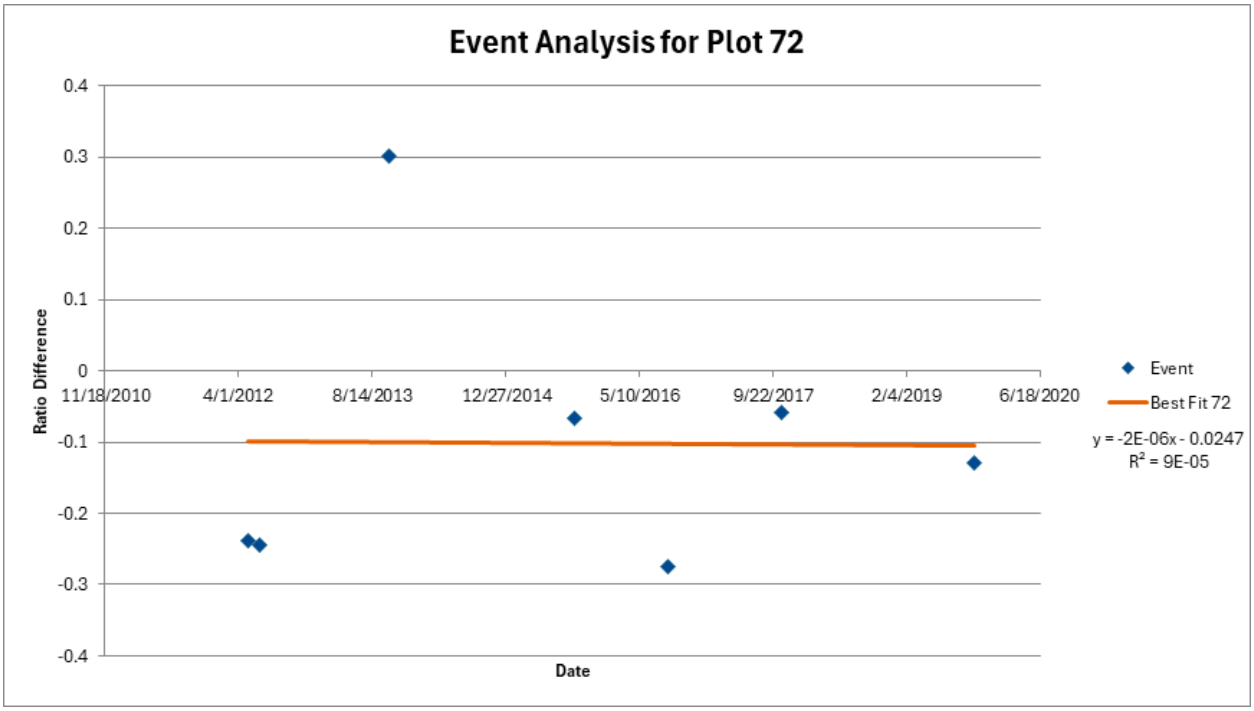

Event Analysis for Plot 67
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 67
y = 6E-06x - 0.2568
R² = 0.0177

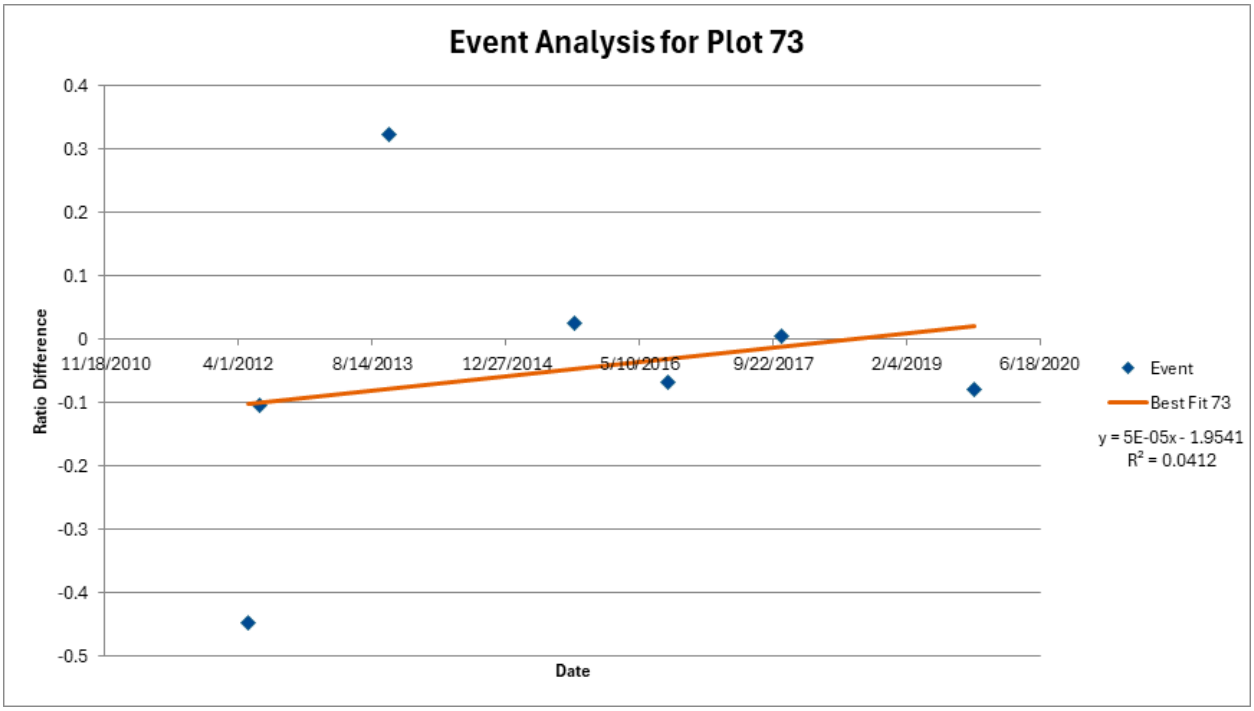

Event Analysis for Plot 68
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 68
y = 3E-05x - 1.3312
R² = 0.0892

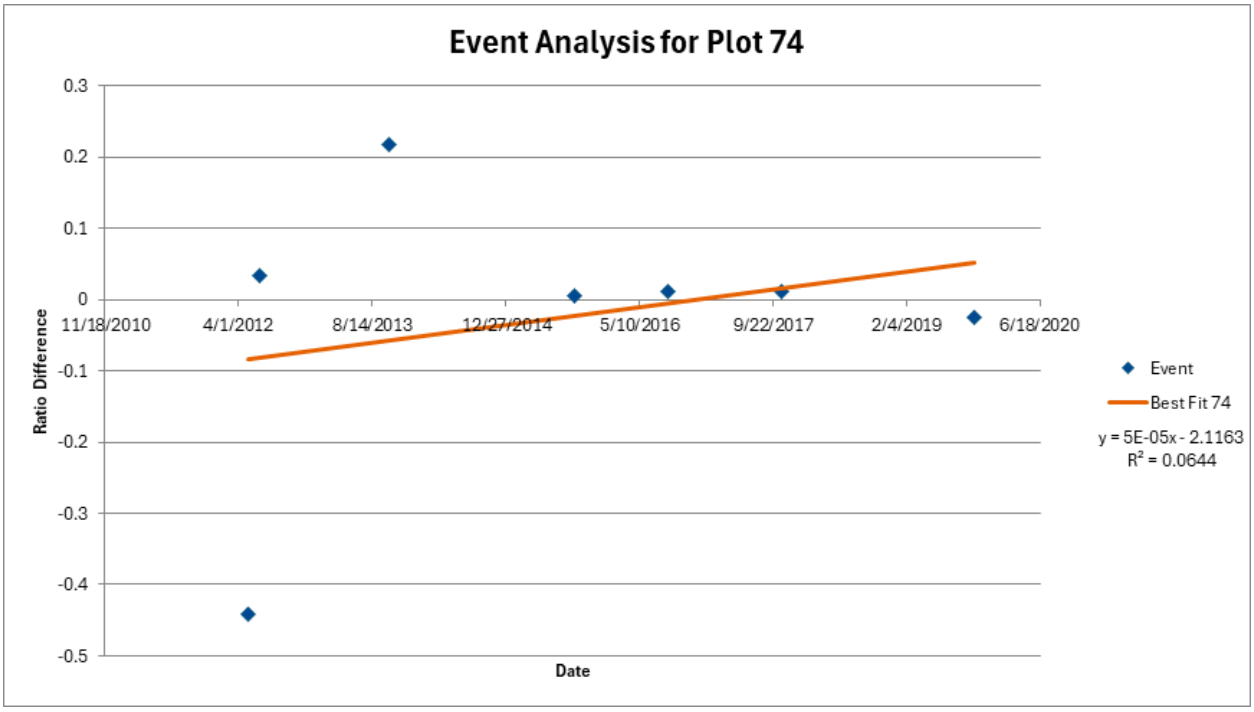

Event Analysis for Plot 69
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 69
y = 1E-05x - 0.4862
R² = 0.0115

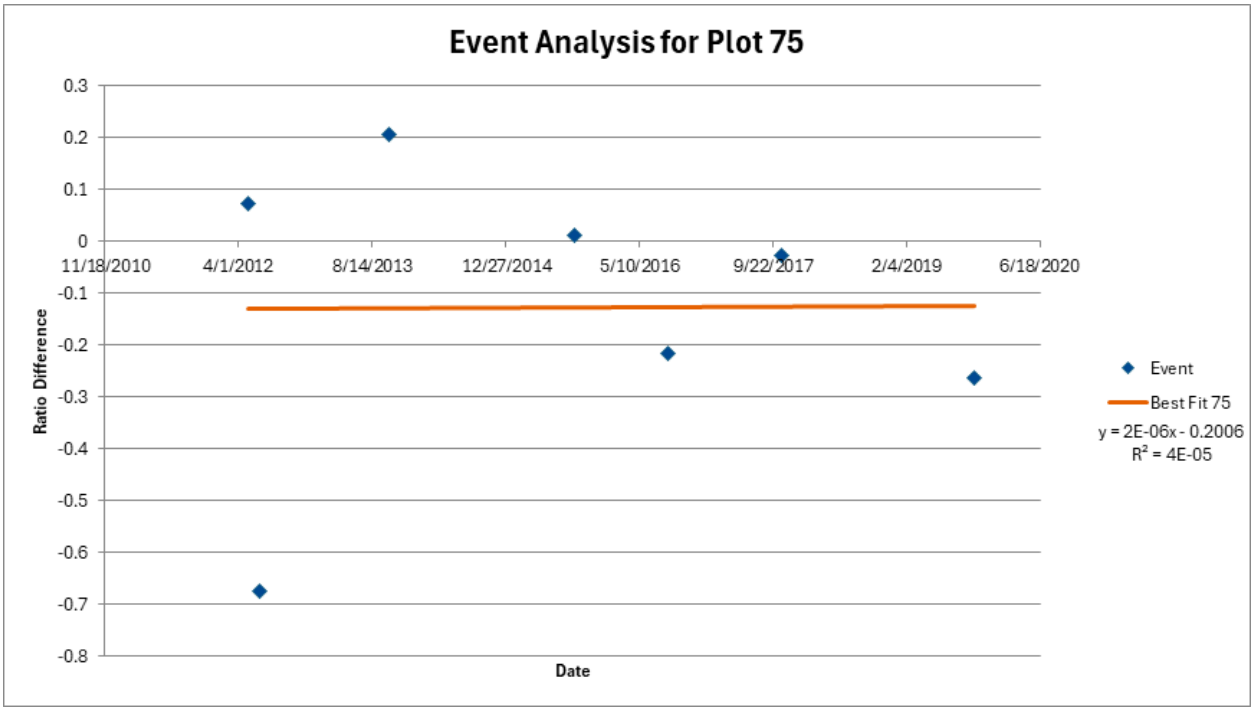

Event Analysis for Plot 70
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 70
y = 2E-05x - 0.9708
R² = 0.0151

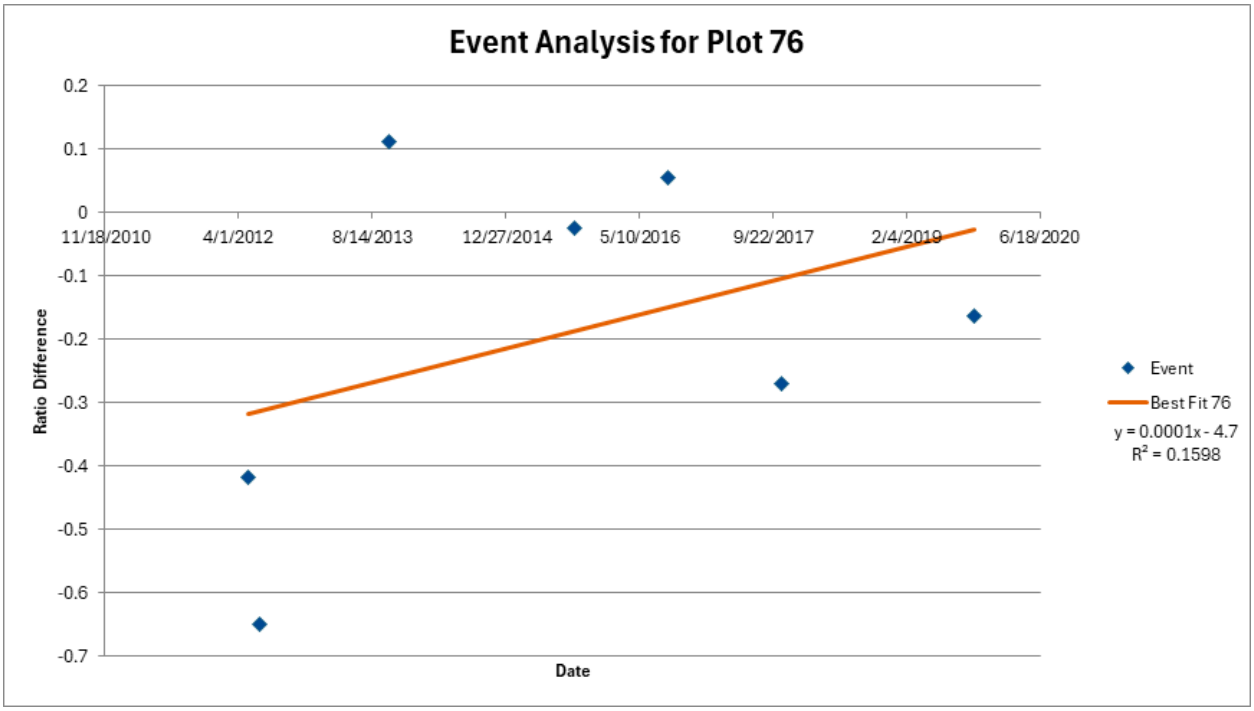

Event Analysis for Plot 71
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 71
y = 0.0002x - 7.2695
R² = 0.2011

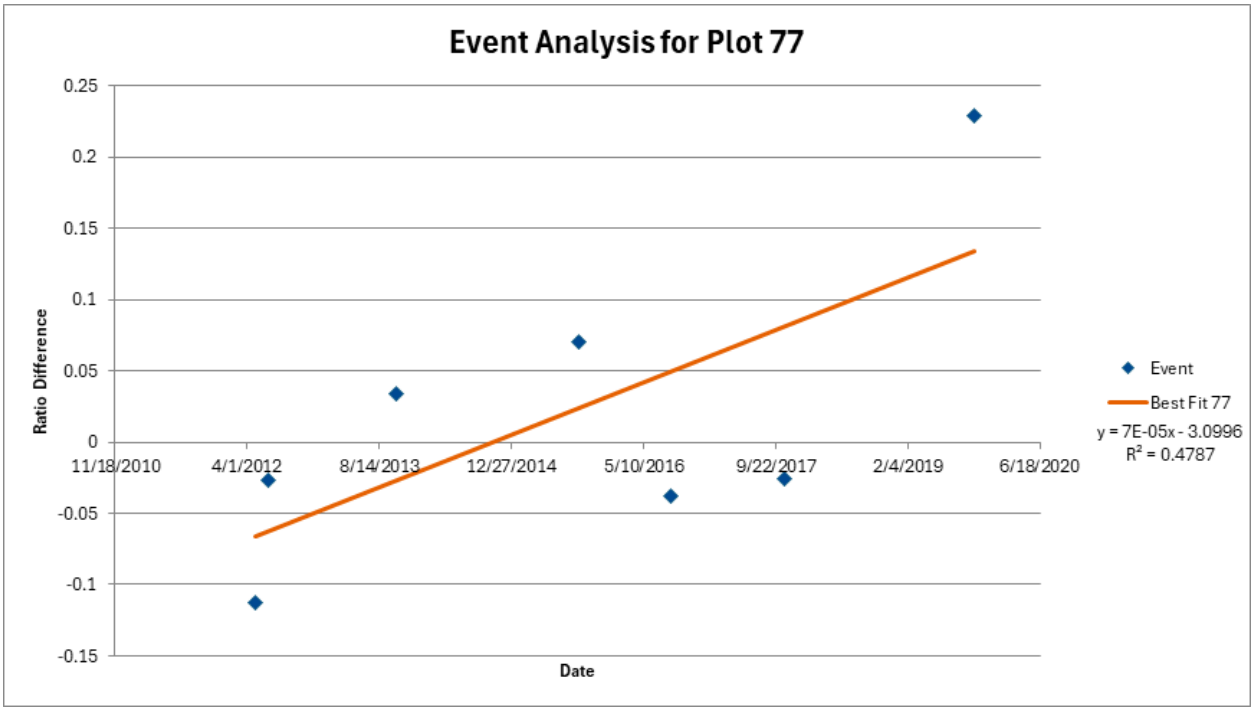

Event Analysis for Plot 72
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 72
y = -2E-06x - 0.0247
R² = 9E-05

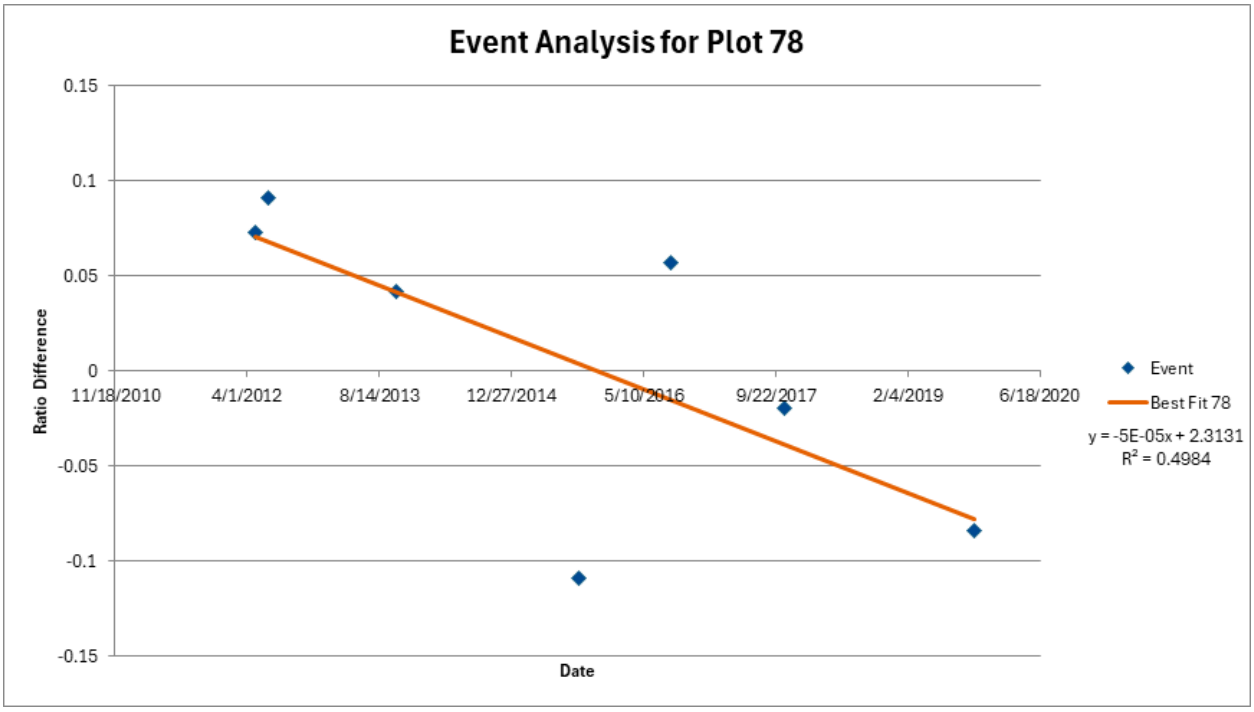

Event Analysis for Plot 73
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 73
y = 5E-05x - 1.9541
R² = 0.0412

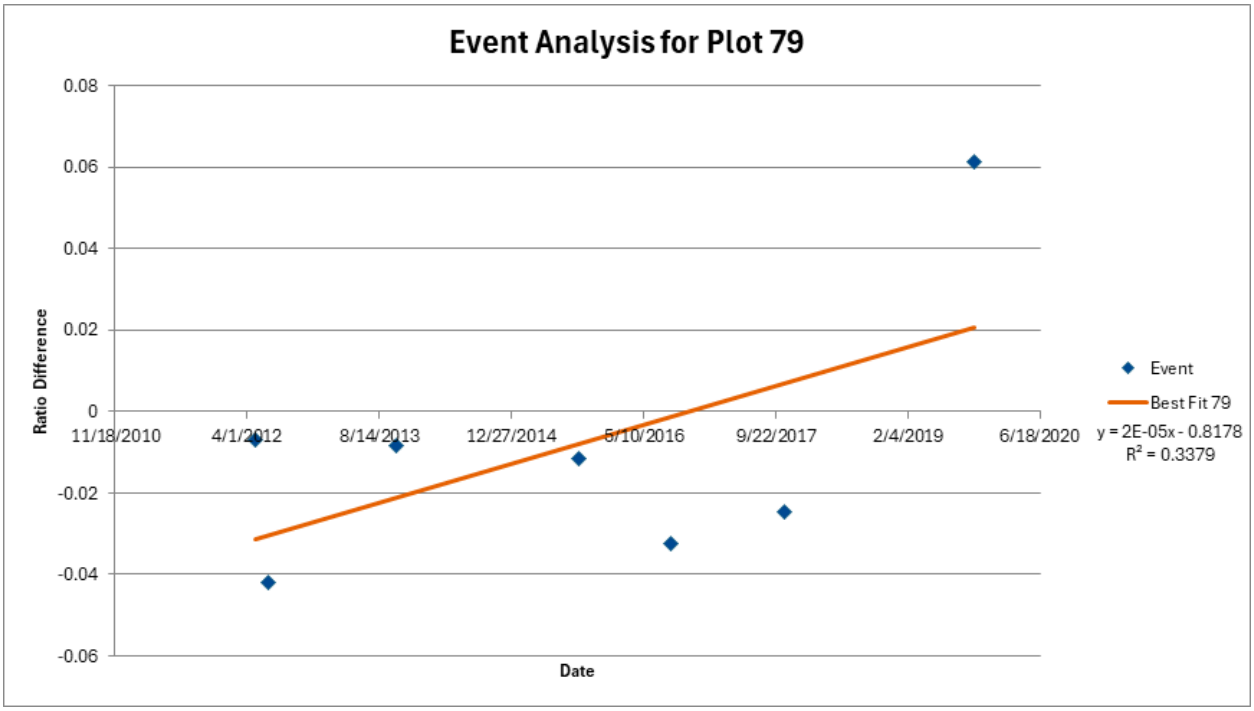

Event Analysis for Plot 74
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 74
y = 5E-05x - 2.1163
R² = 0.0644

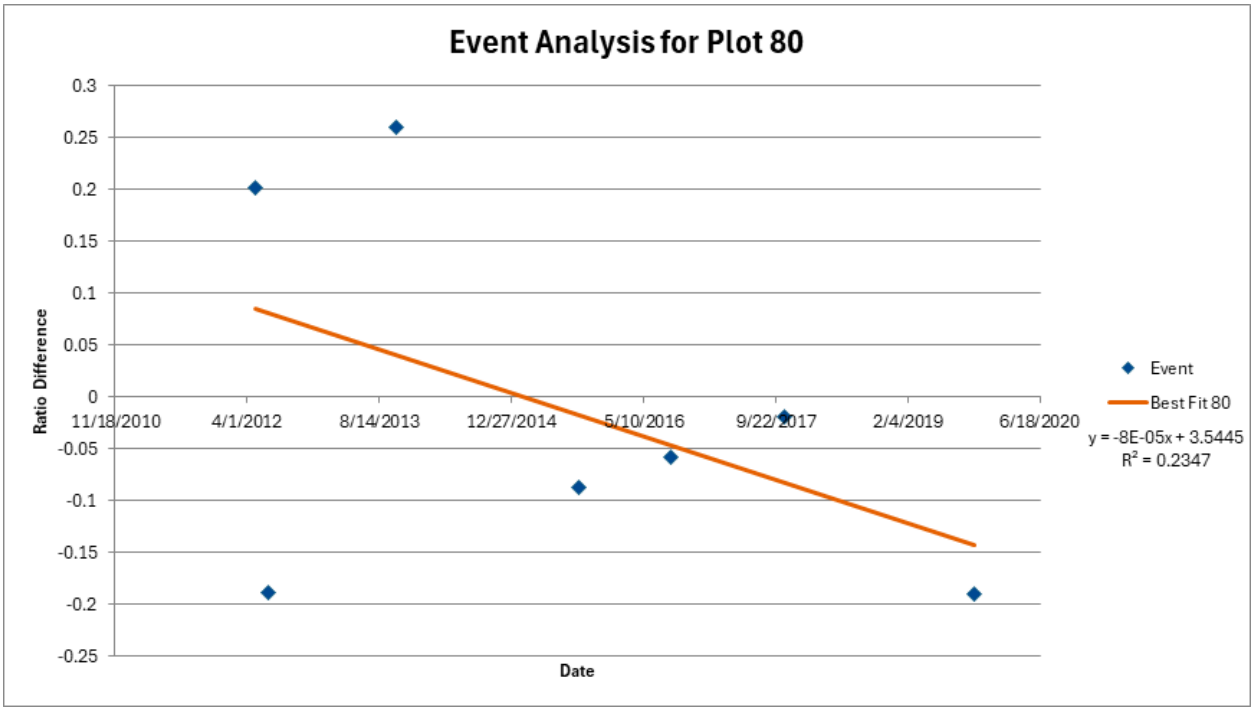

Event Analysis for Plot 75
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 75
y = 2E-06x - 0.2006
R² = 4E-05

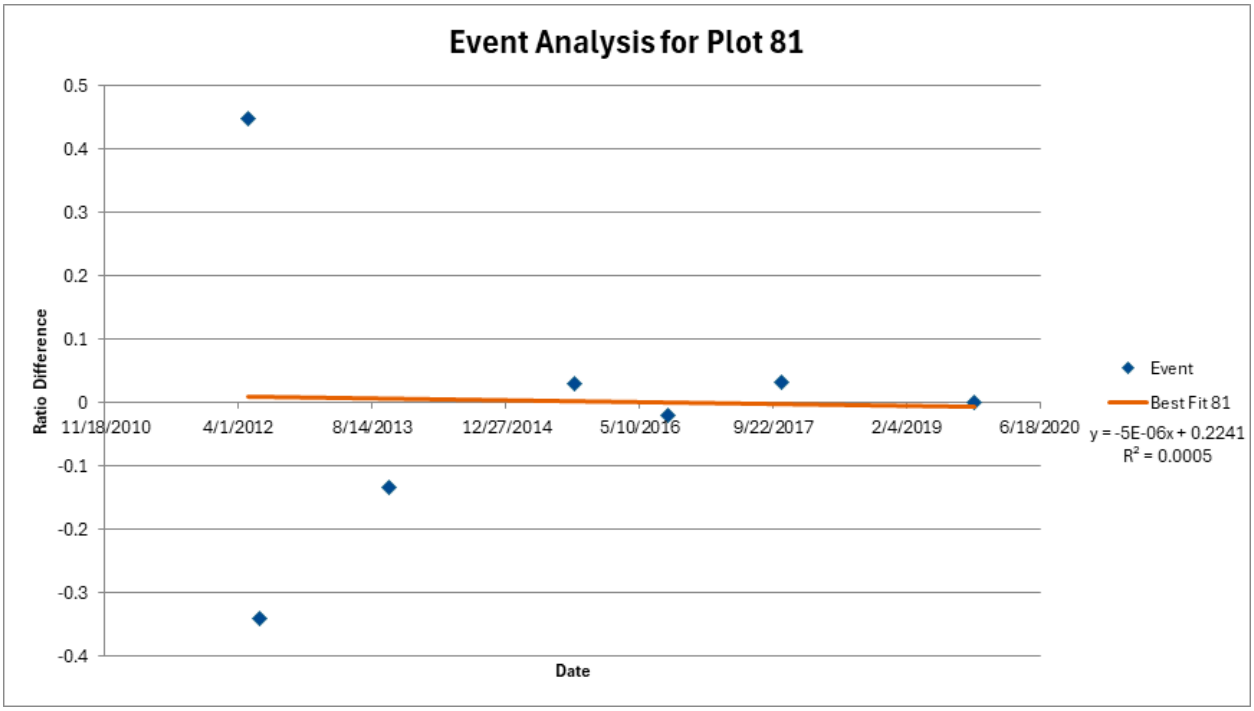

Event Analysis for Plot 76
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Ratio Difference
Date
Event
Best Fit 76
y = 0.0001x - 4.7
R² = 0.1598

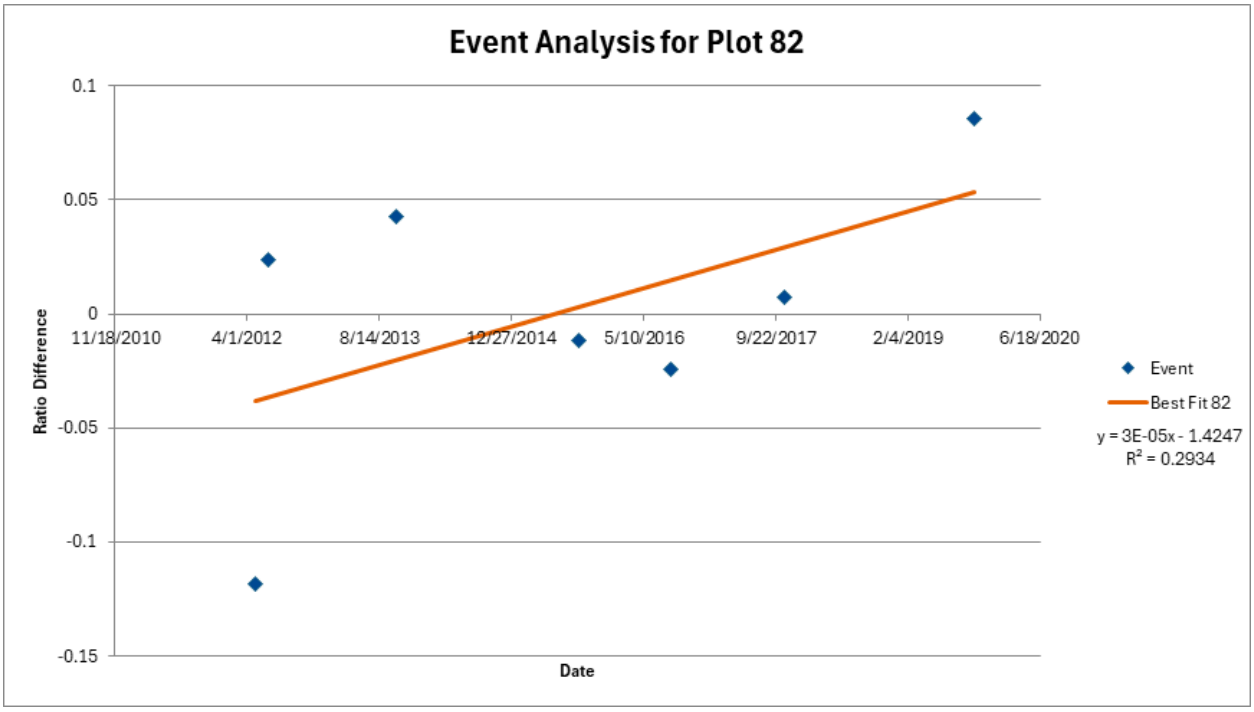

Event Analysis for Plot 77
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 77
y = 7E-05x - 3.0996
R² = 0.4787

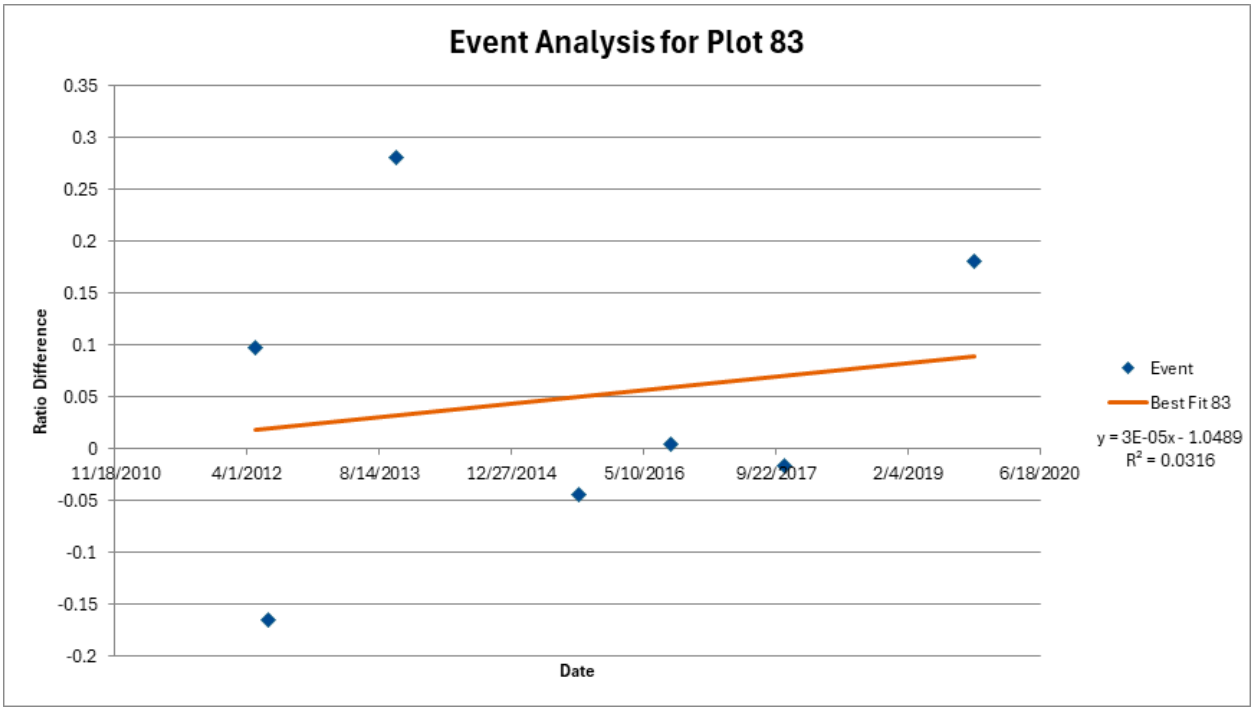

Event Analysis for Plot 78
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 78
y = -5E-05x + 2.3131
R² = 0.4984

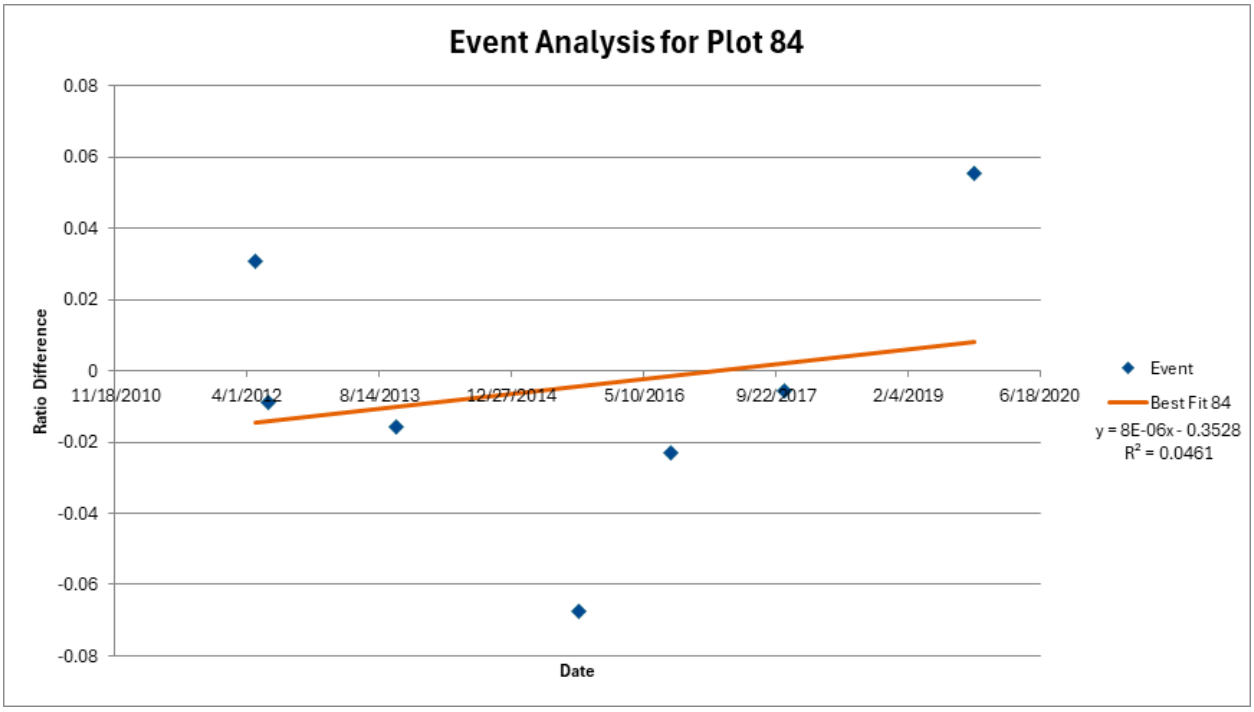

Event Analysis for Plot 79
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 79
y = 2E-05x - 0.8178
R² = 0.3379

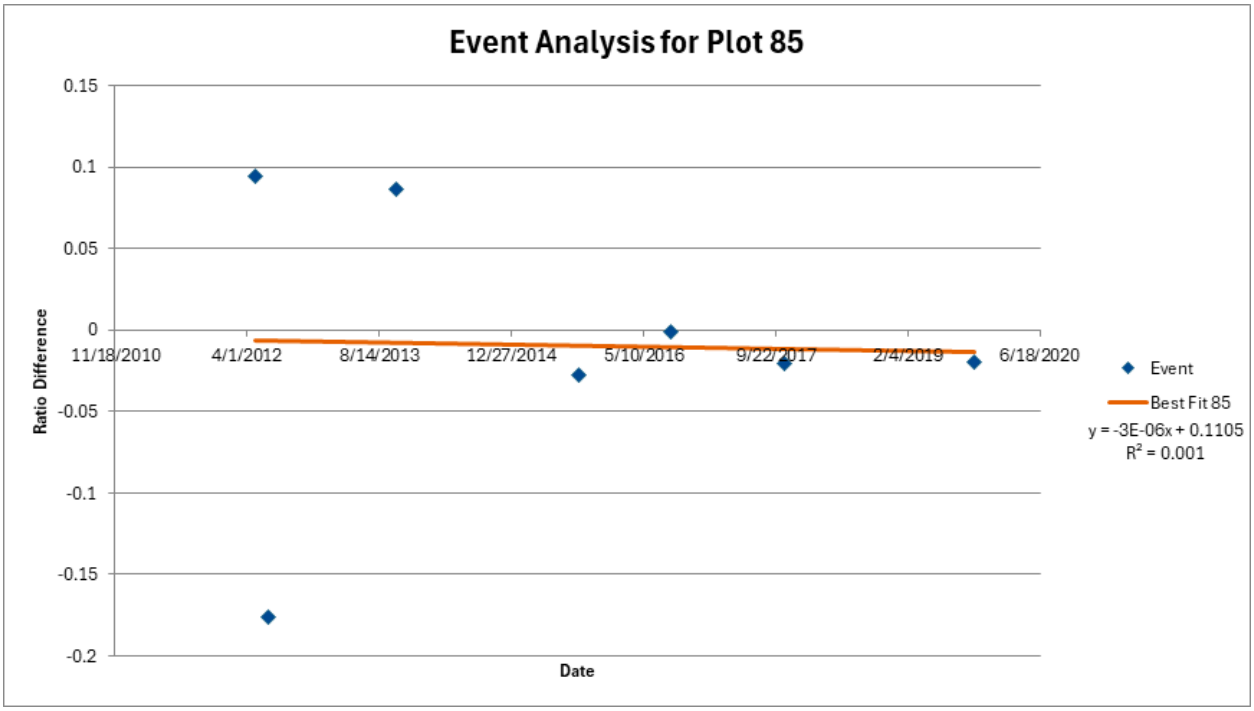

Event Analysis for Plot 80
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 80
y = -8E-05x + 3.5445
R² = 0.2347

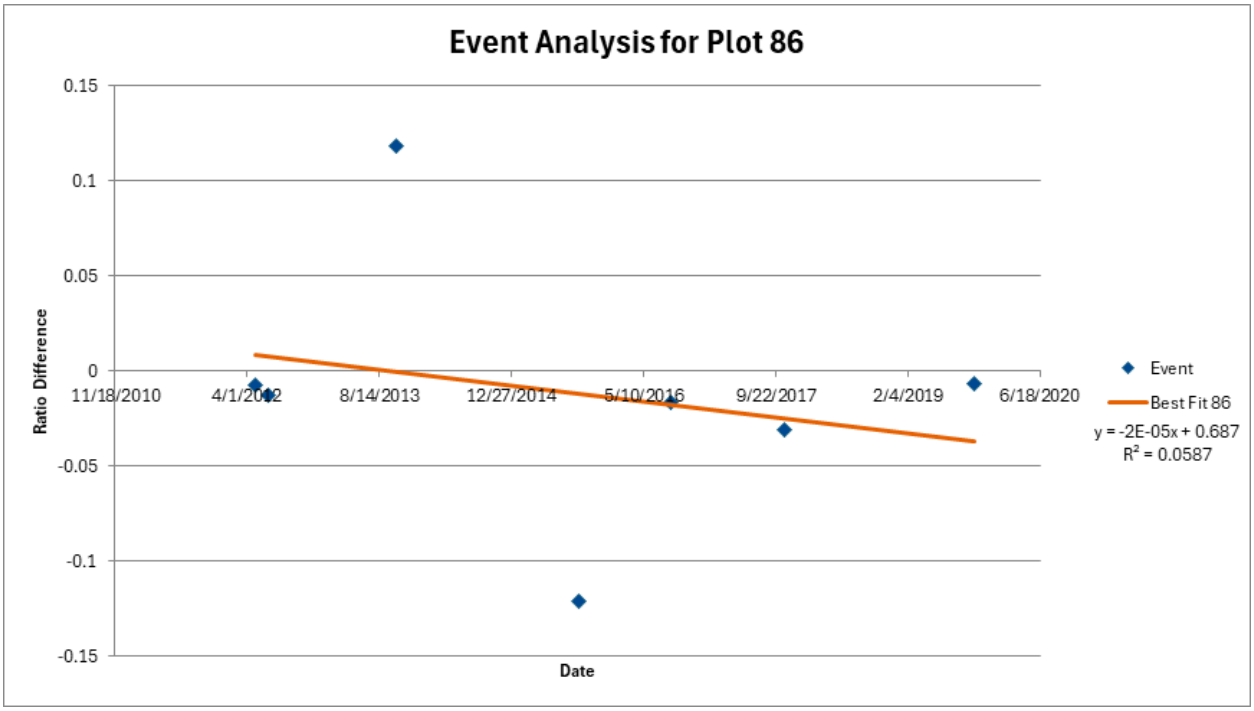

Event Analysis for Plot 81
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 81
y = -5E-06x + 0.2241
R² = 0.0005

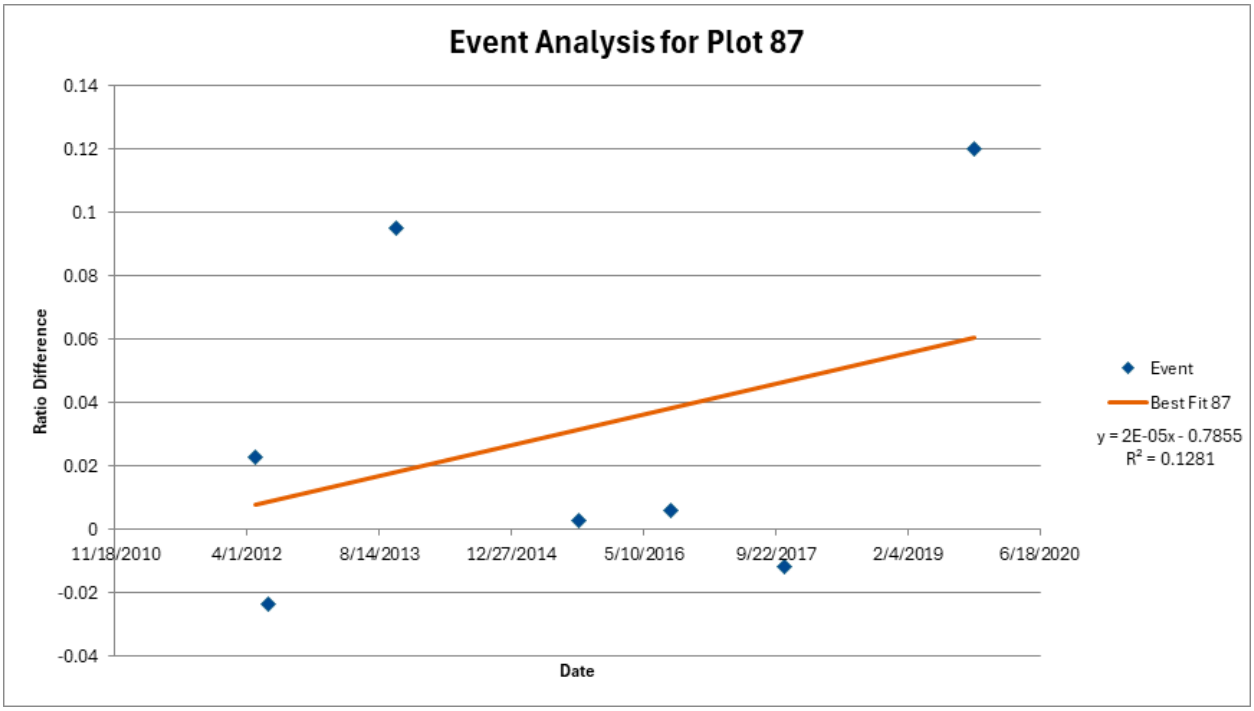

Event Analysis for Plot 82
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 82
y = 3E-05x - 1.4247
R² = 0.2934

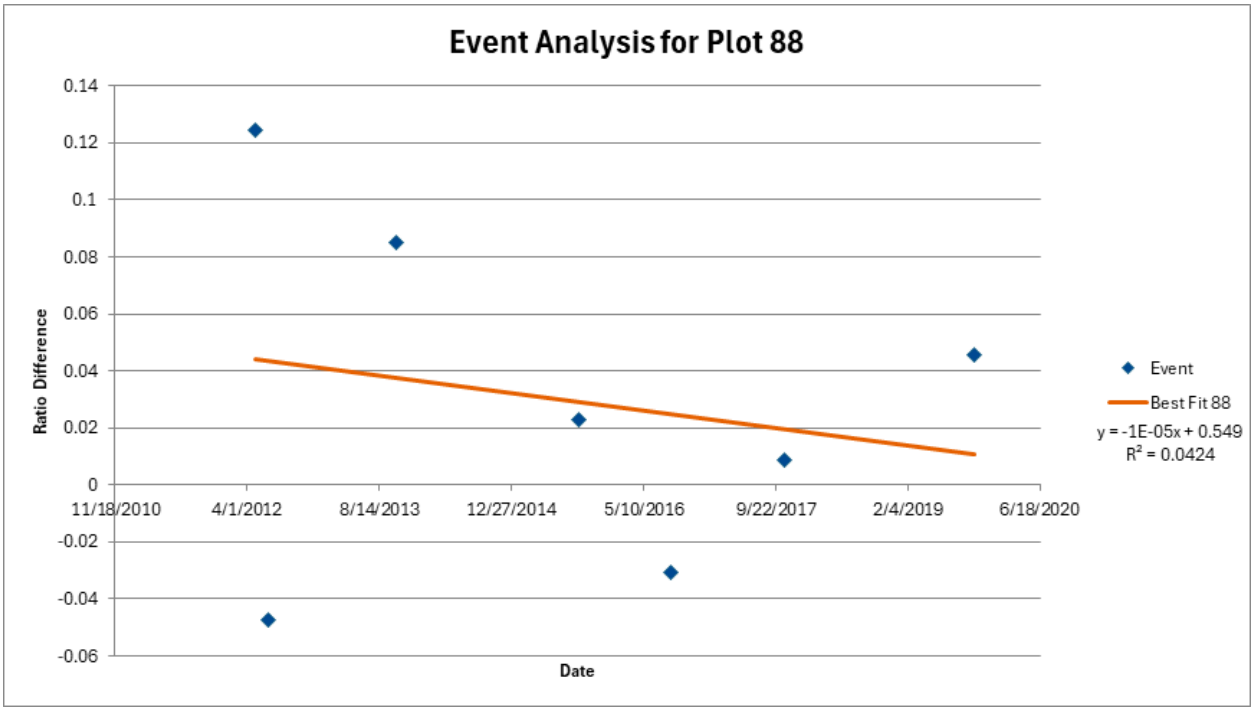

Event Analysis for Plot 83
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 83
y = 3E-05x - 1.0489
R² = 0.0316

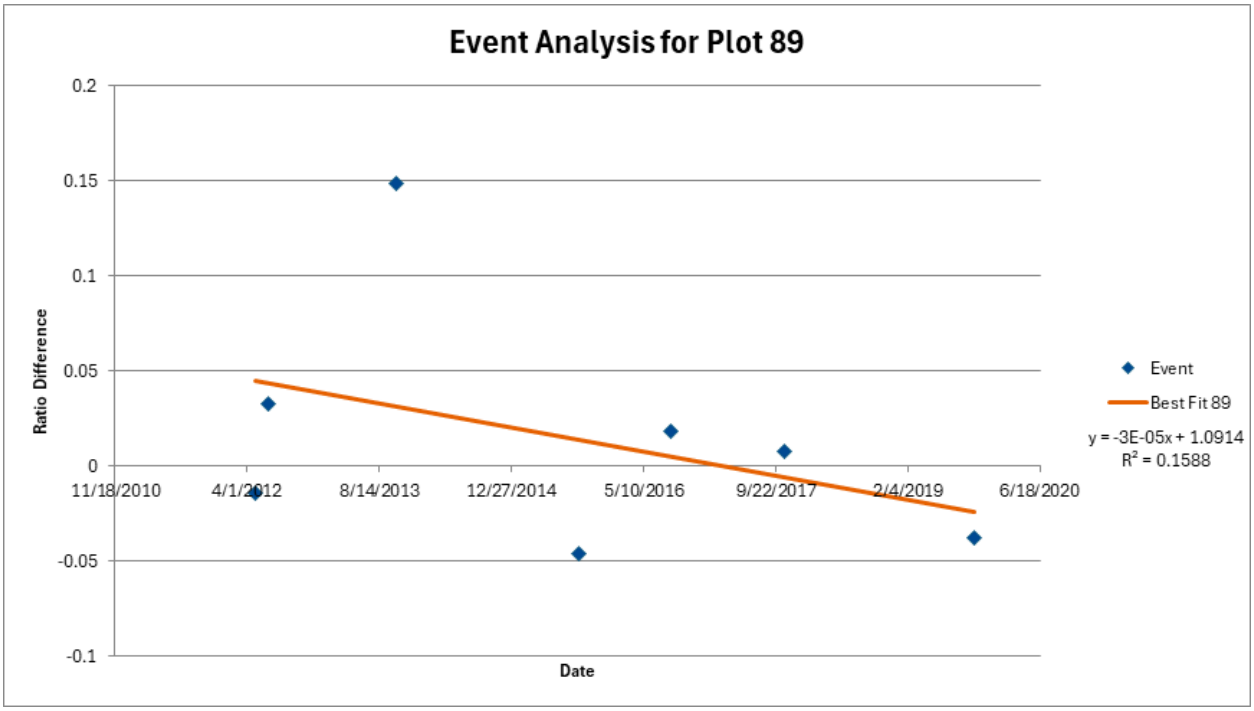

Event Analysis for Plot 84
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 84
y = 8E-06x - 0.3528
R² = 0.0461

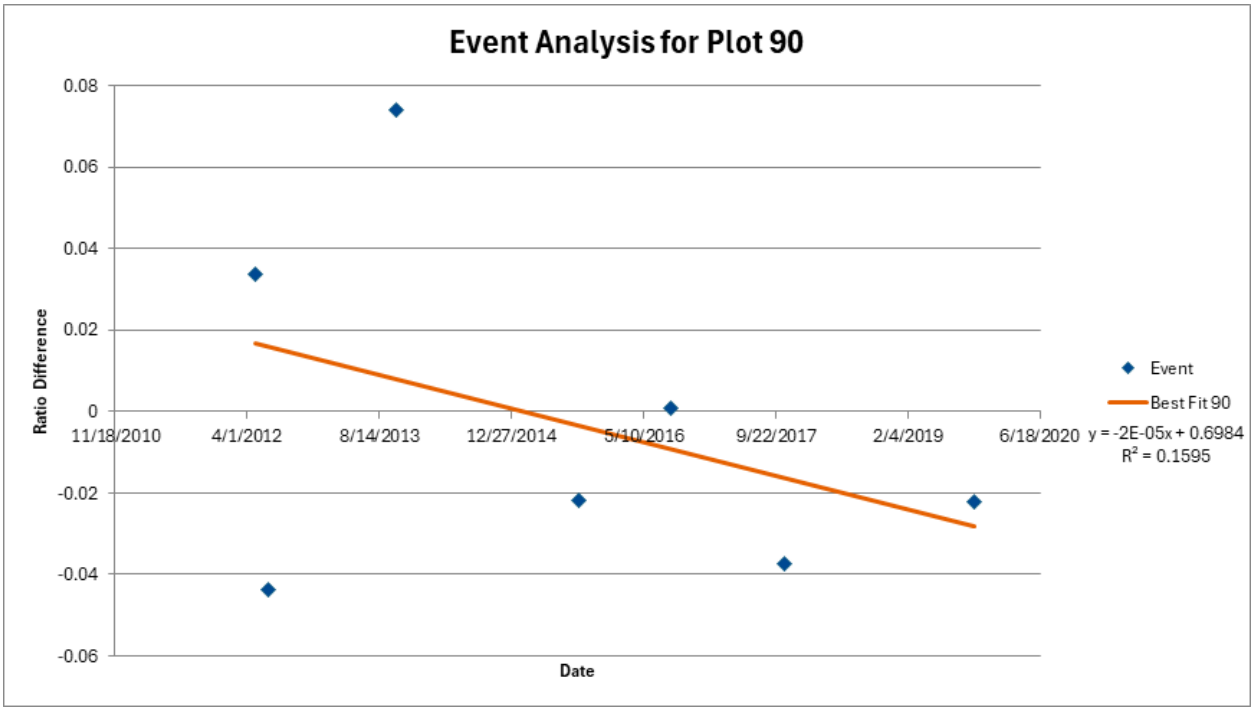

Event Analysis for Plot 85
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 85
y = -3E-06x + 0.1105
R² = 0.001

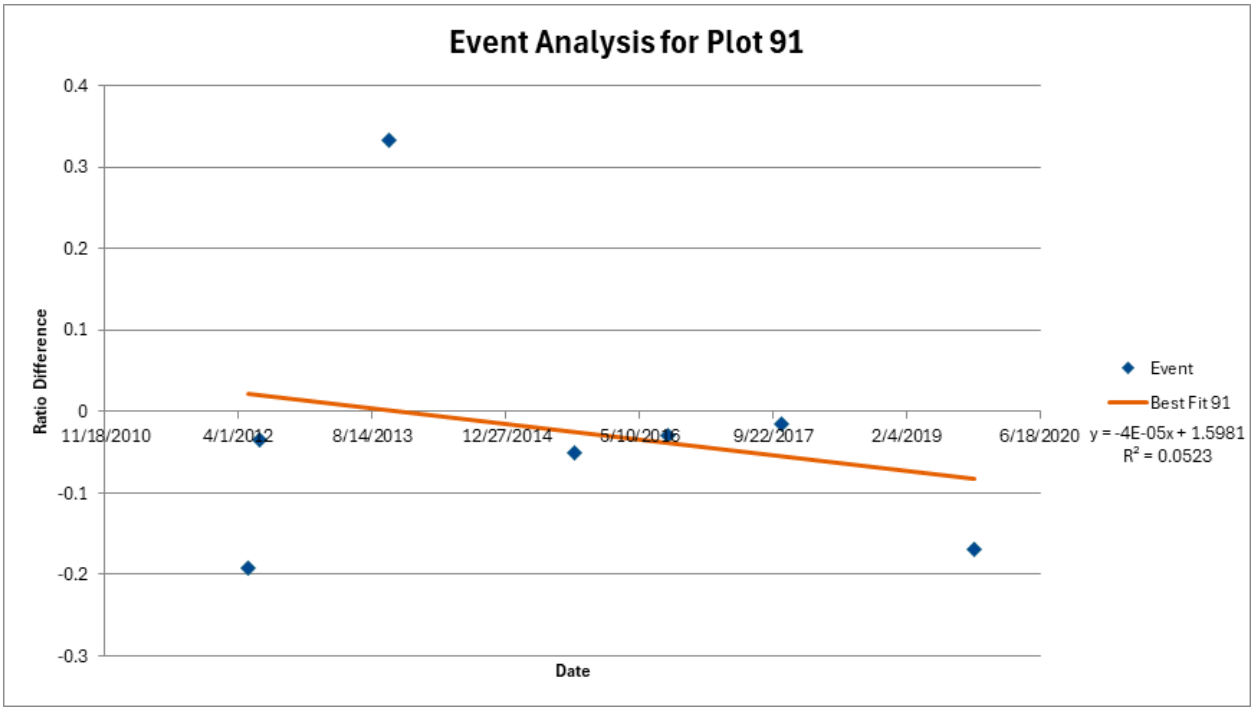

Event Analysis for Plot 86
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 86
y = -2E-05x + 0.687
R² = 0.0587

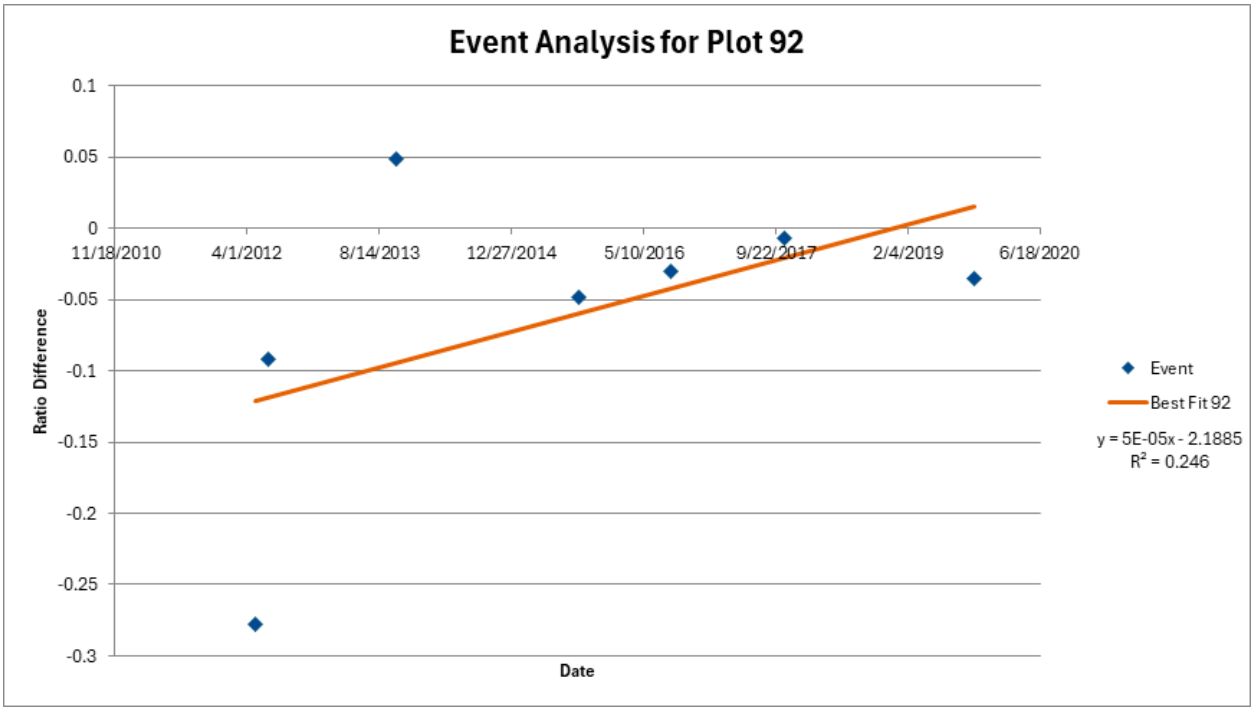

Event Analysis for Plot 87
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 87
y = 2E-05x - 0.7855
R² = 0.1281

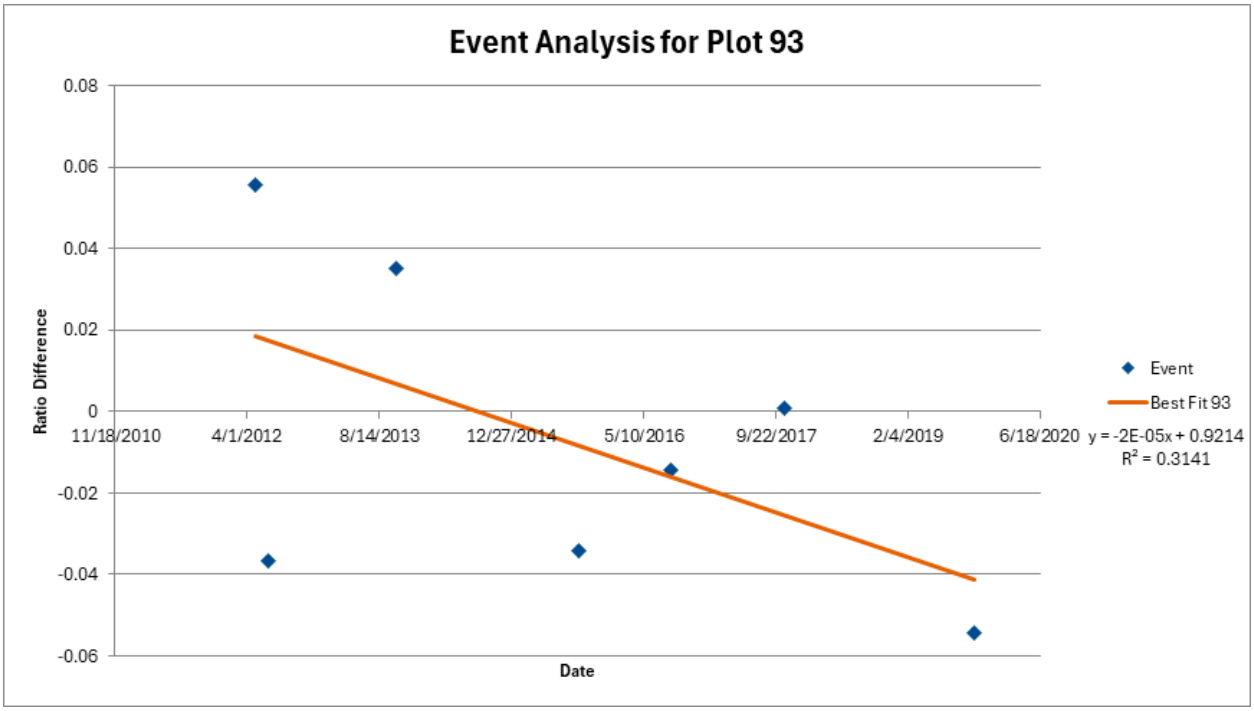

Event Analysis for Plot 88
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 88
y = -1E-05x + 0.549
R² = 0.0424

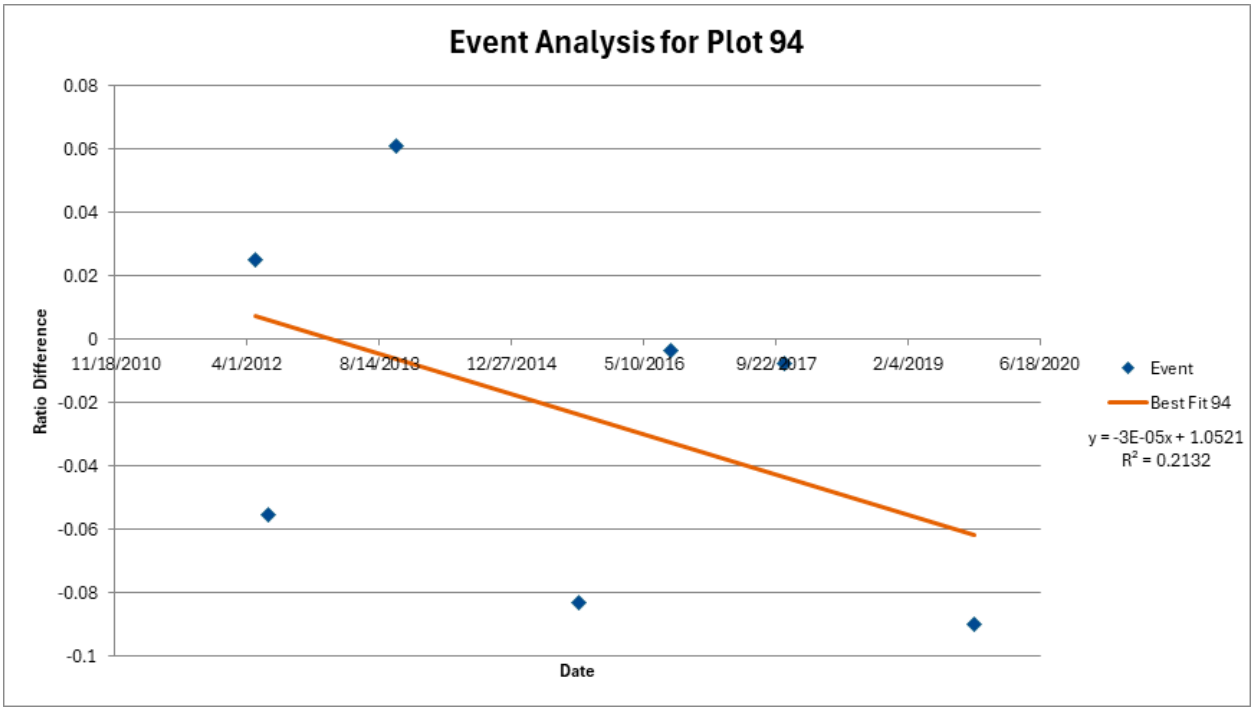

Event Analysis for Plot 89
0.2
0.15
0.1
0.05
0
-0.05
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 89
y = -3E-05x + 1.0914
R² = 0.1588

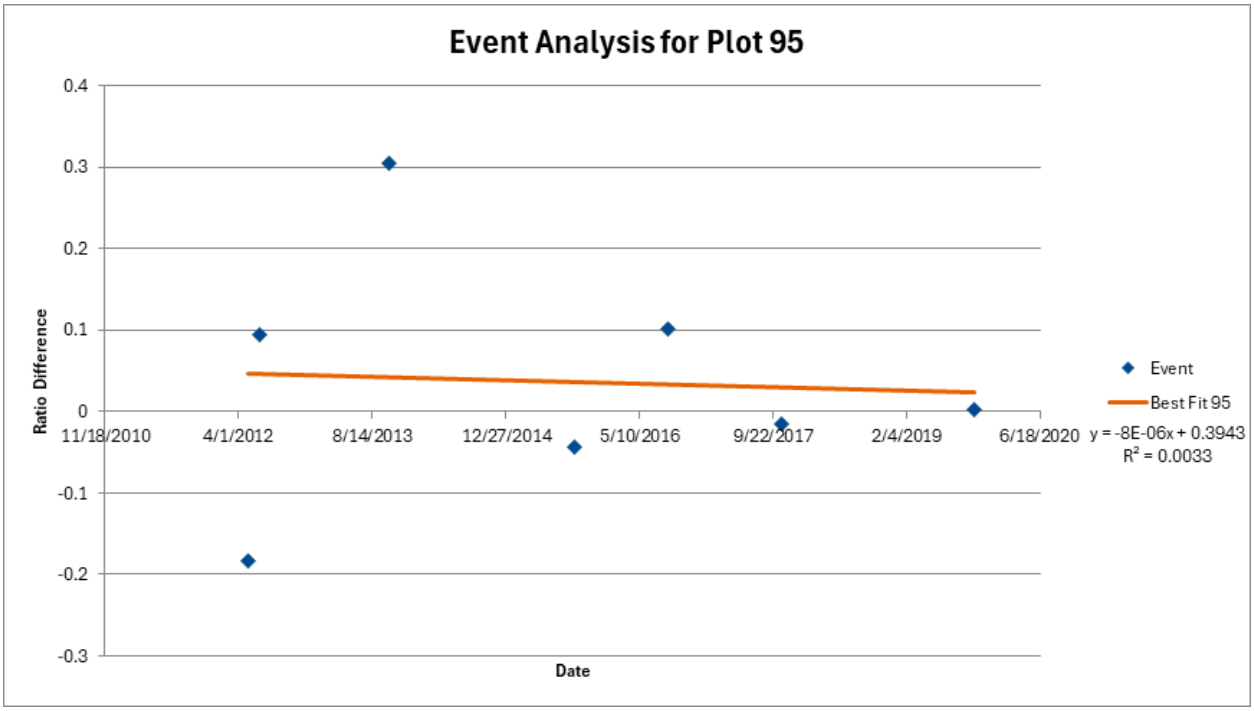

Event Analysis for Plot 90
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 90
y = -2E-05x + 0.6984
R² = 0.1595

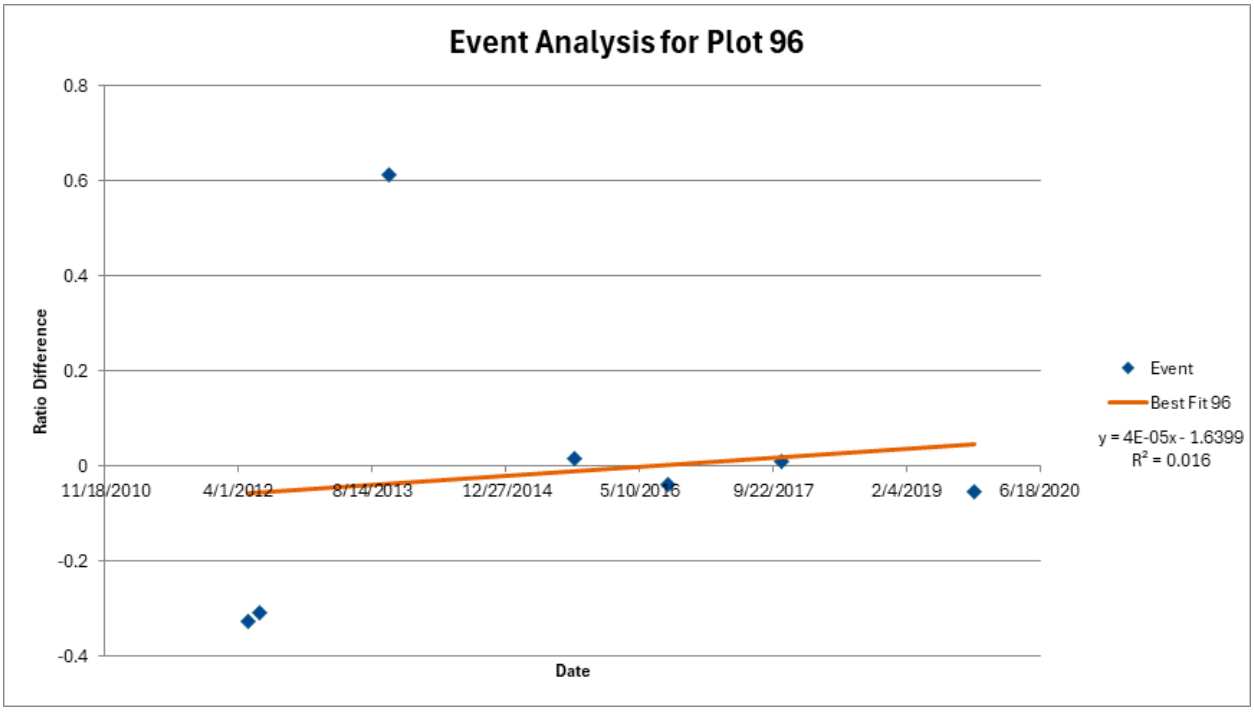

Event Analysis for Plot 91
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 91
y = -4E-05x + 1.5981
R² = 0.0523

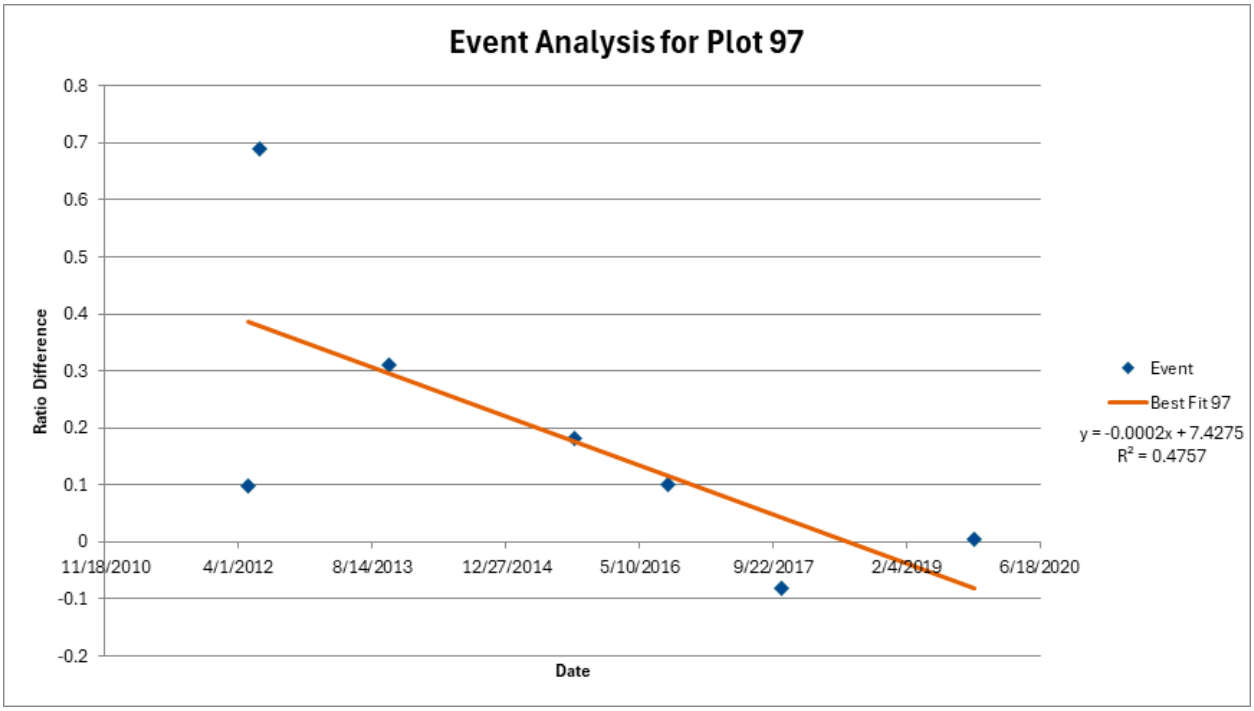

Event Analysis for Plot 92
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 92
y = 5E-05x - 2.1885
R² = 0.246

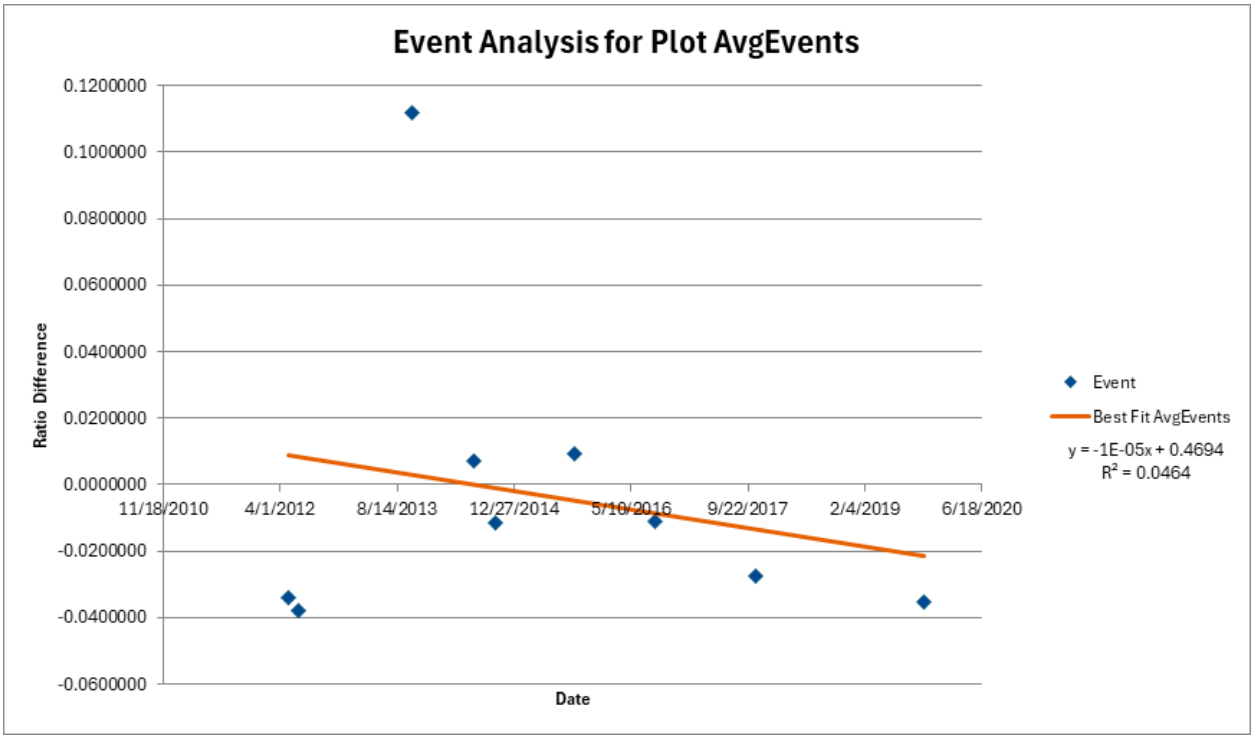

Event Analysis for Plot 93
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 93
y = -2E-05x + 0.9214
R² = 0.3141


Event Analysis for Plot 94
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 94
y = -3E-05x + 1.0521
R² = 0.2132

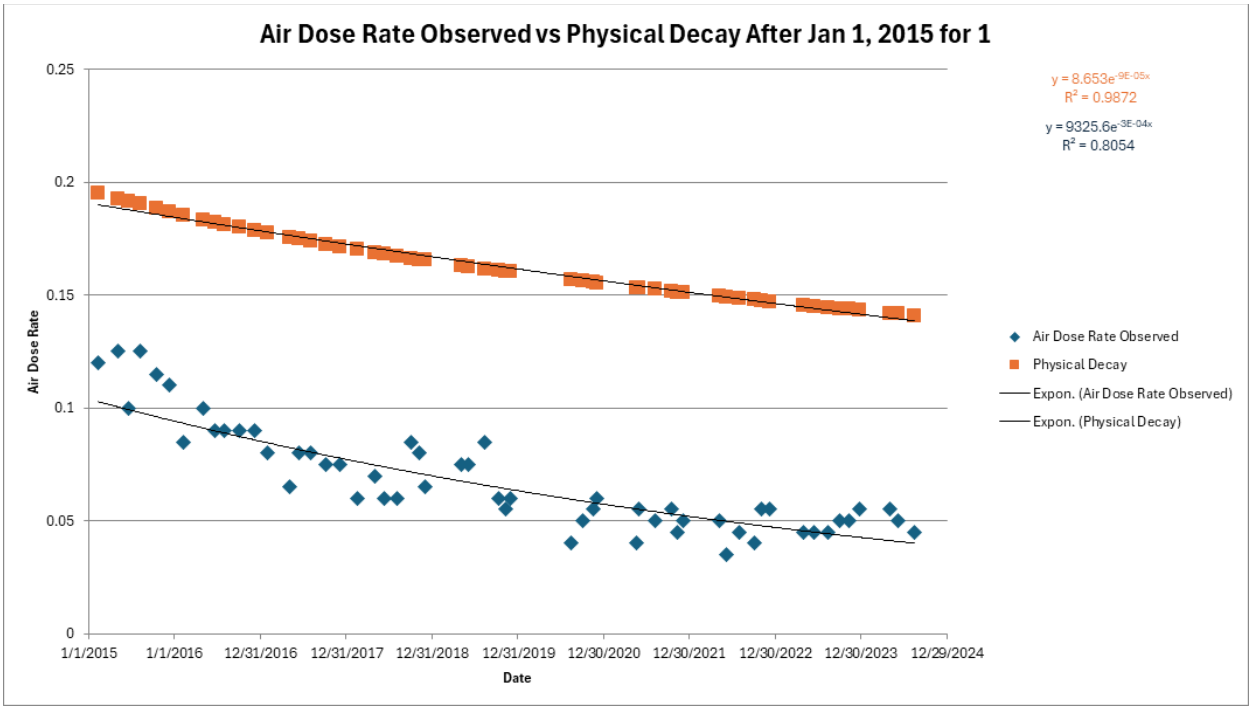

Event Analysis for Plot 95
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 95
y = -8E-06x + 0.3943
R² = 0.0033

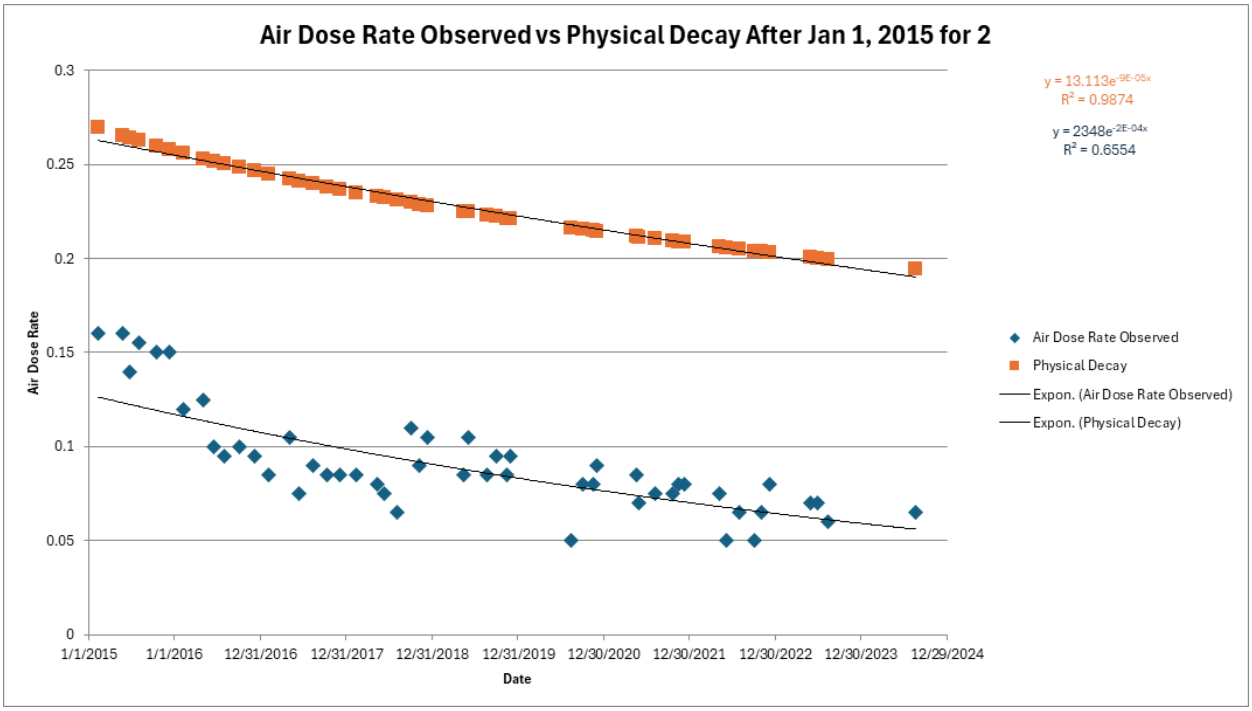

Event Analysis for Plot 96
0.8
0.6
0.4
0.2
0
-0.2
-0.4
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 96
y = 4E-05x - 1.6399
R² = 0.016

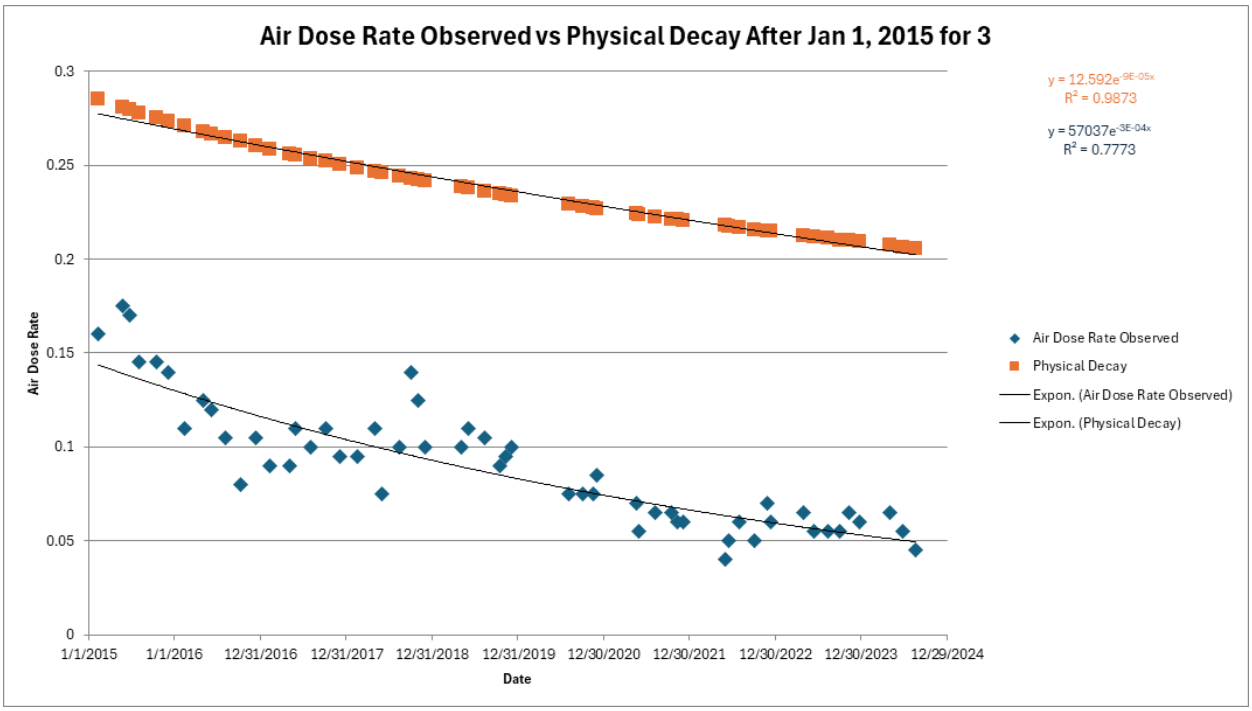

Event Analysis for Plot 97
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit 97
y = -0.0002x + 7.4275
R² = 0.4757

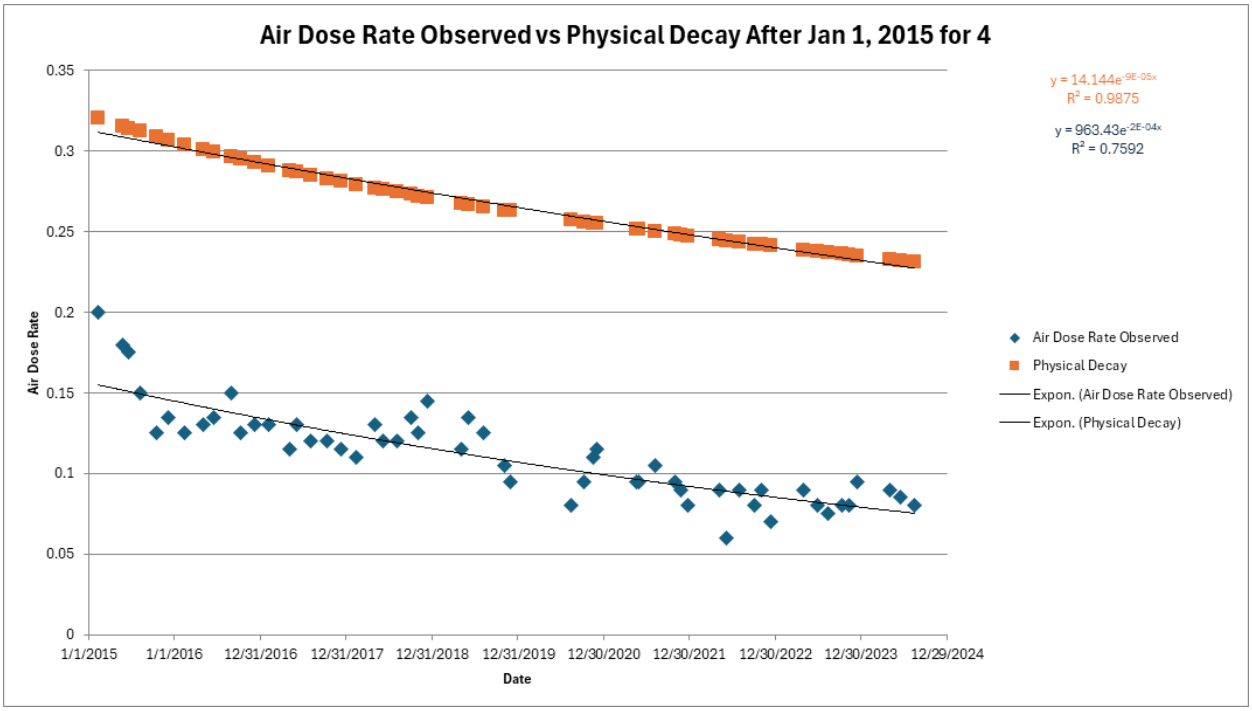

Event Analysis for Plot AvgEvents
0.1200000
0.1000000
0.0800000
0.0600000
0.0400000
0.0200000
0.0000000
-0.0200000
-0.0400000
-0.0600000
Ratio Difference
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
Date
Event
Best Fit AvgEvents
y = -1E-05x + 0.4694
R² = 0.0464

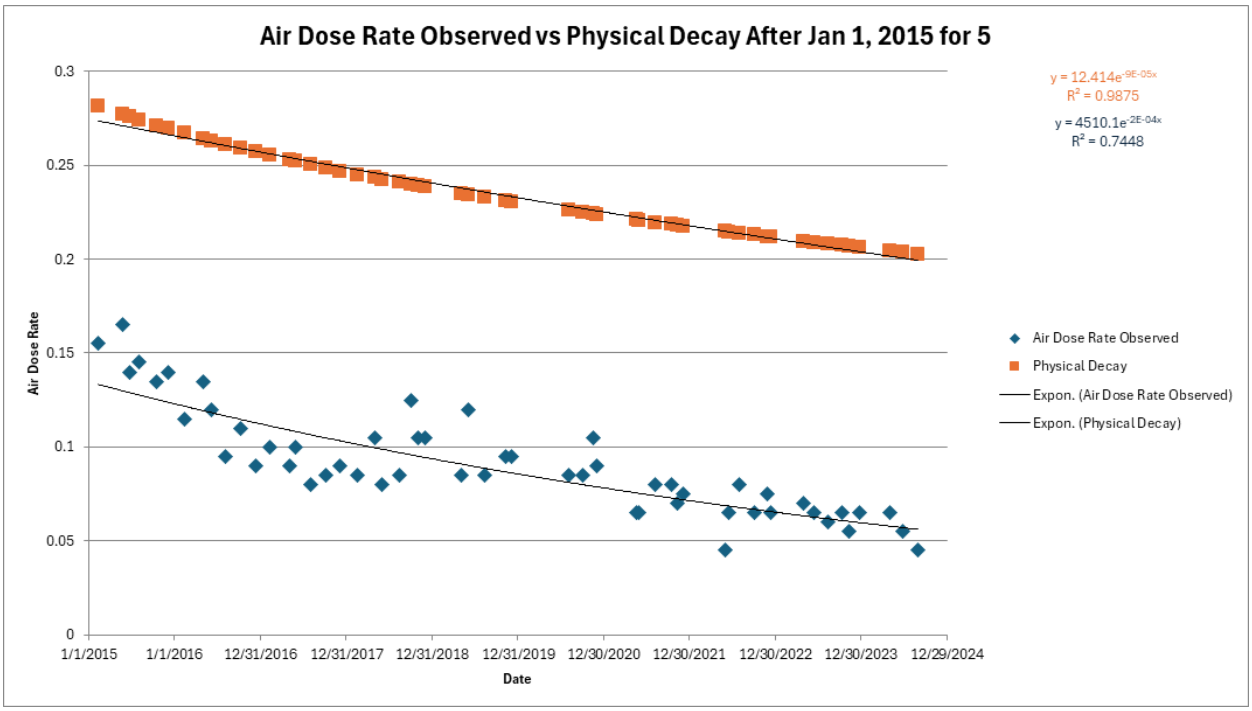
O: Post 2015 Physical vs Observed Dose Rate Slopes:

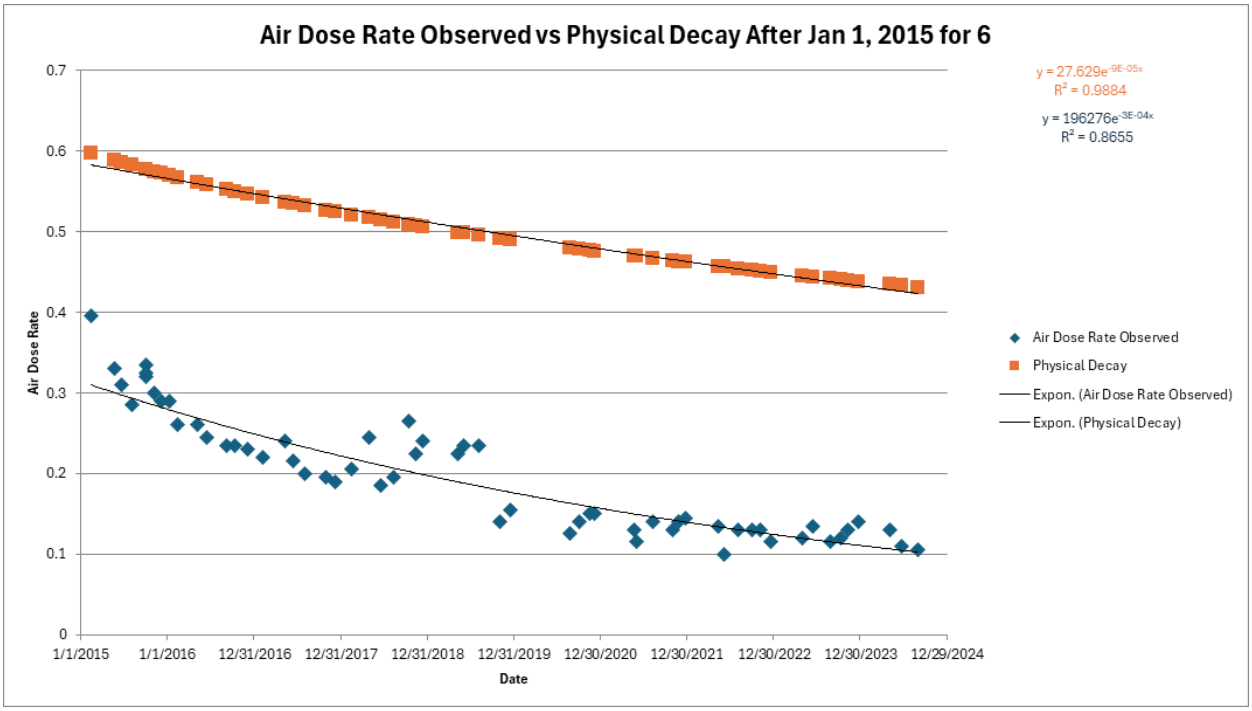


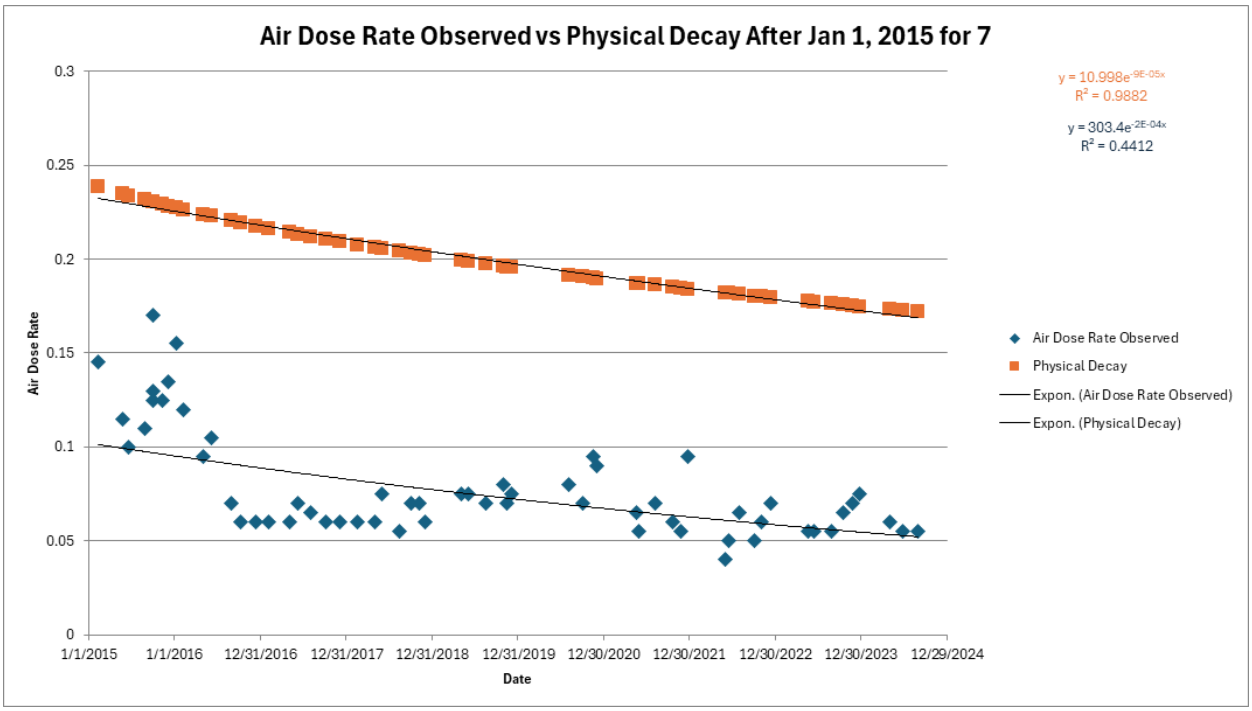


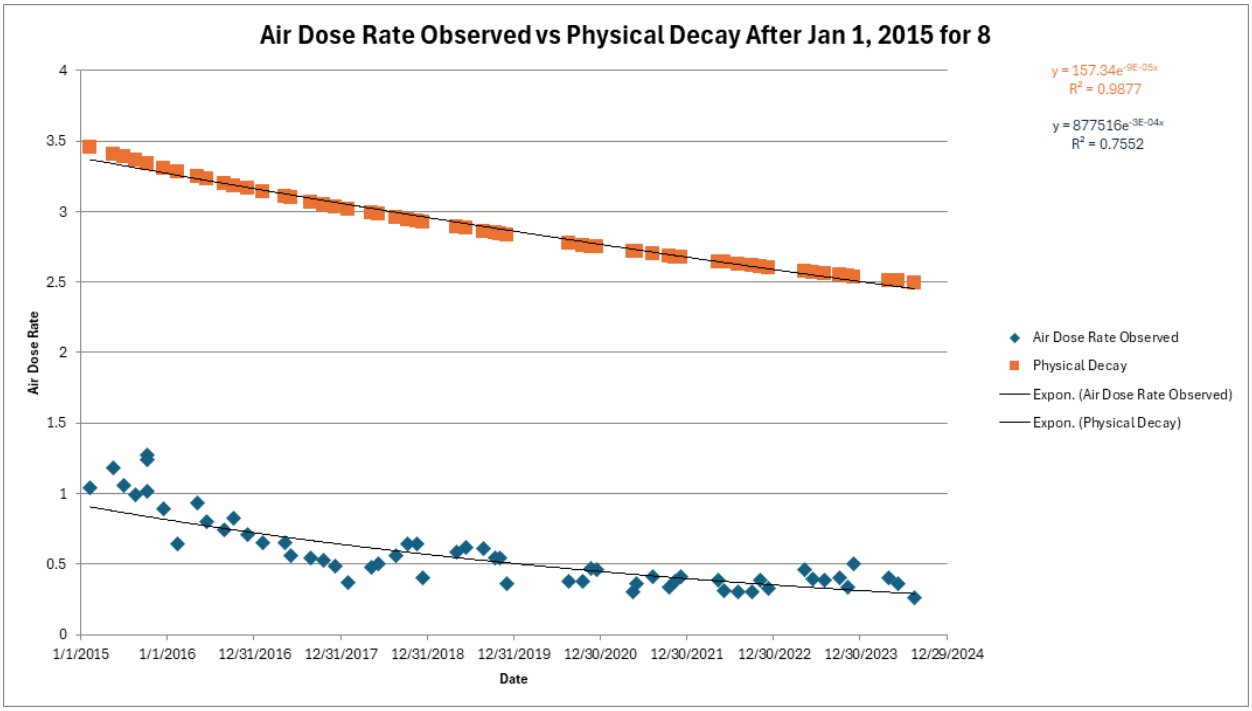

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 3
y = 12.592e-9E-05x
R² = 0.9873
y = 57037e-3E-04x
R² = 0.7773
Air Dose Rate
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

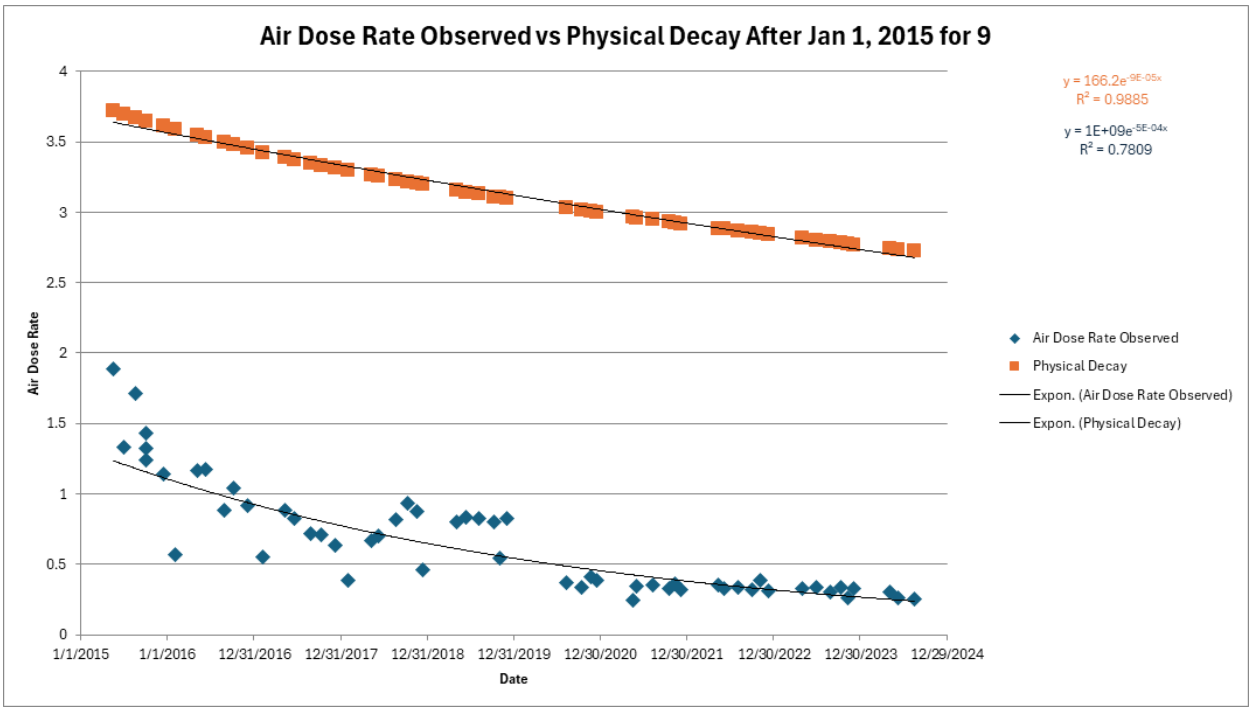

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 4
y = 14.144e-9E-05x
R² = 0.9875
y = 963.43e-2E-04x
R² = 0.7592
Air Dose Rate
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

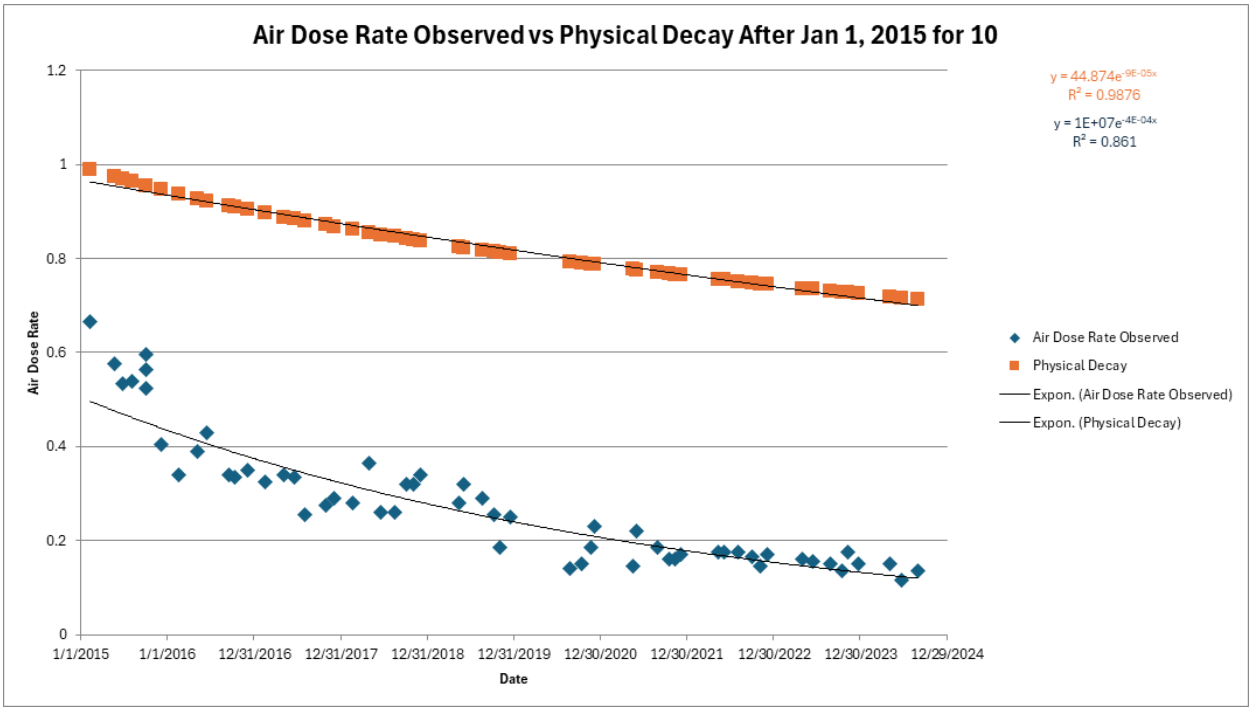

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 5
y = 12.414e-9E-05x
R² = 0.9875
y = 4510.1e-2E-04x
R² = 0.7448
Air Dose Rate
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

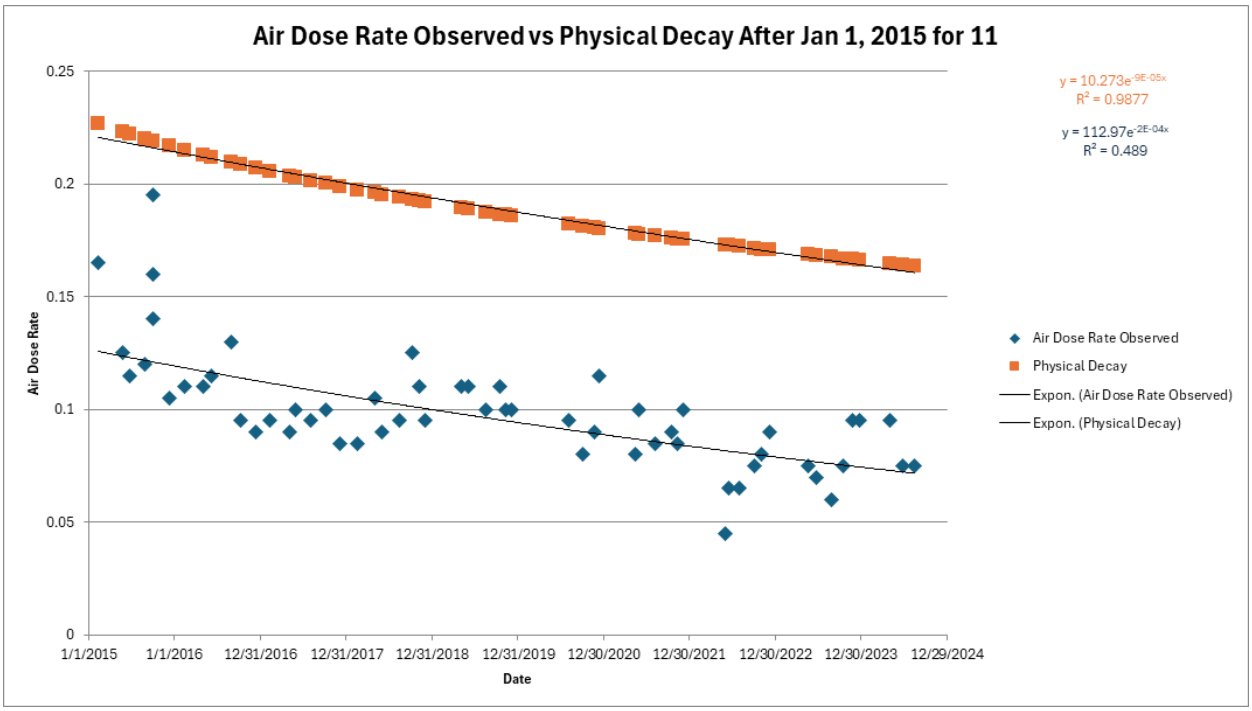

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 6
y = 27.629e-9E-05x
R² = 0.9884
y = 196276e-3E-04x
R² = 0.8655
Air Dose Rate
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

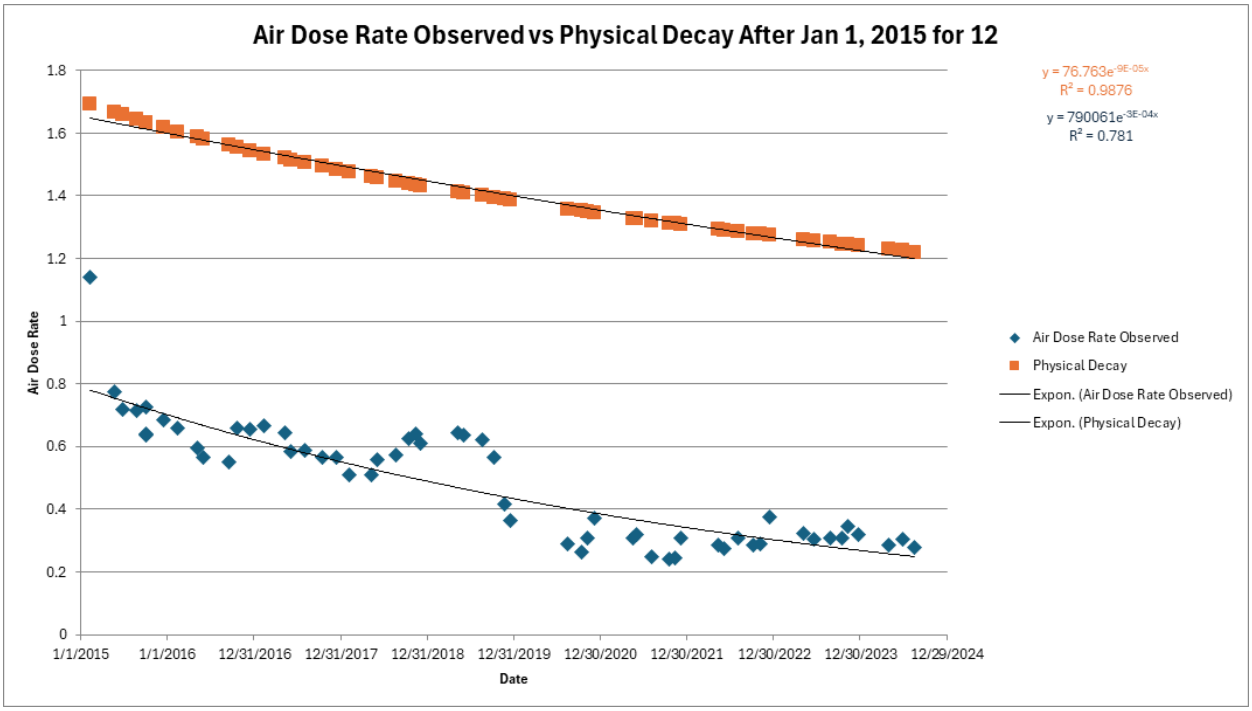

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 7
y = 10.998e-9E-05x
R² = 0.9882
y = 303.4e-2E-04x
R² = 0.4412
Air Dose Rate
Date
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

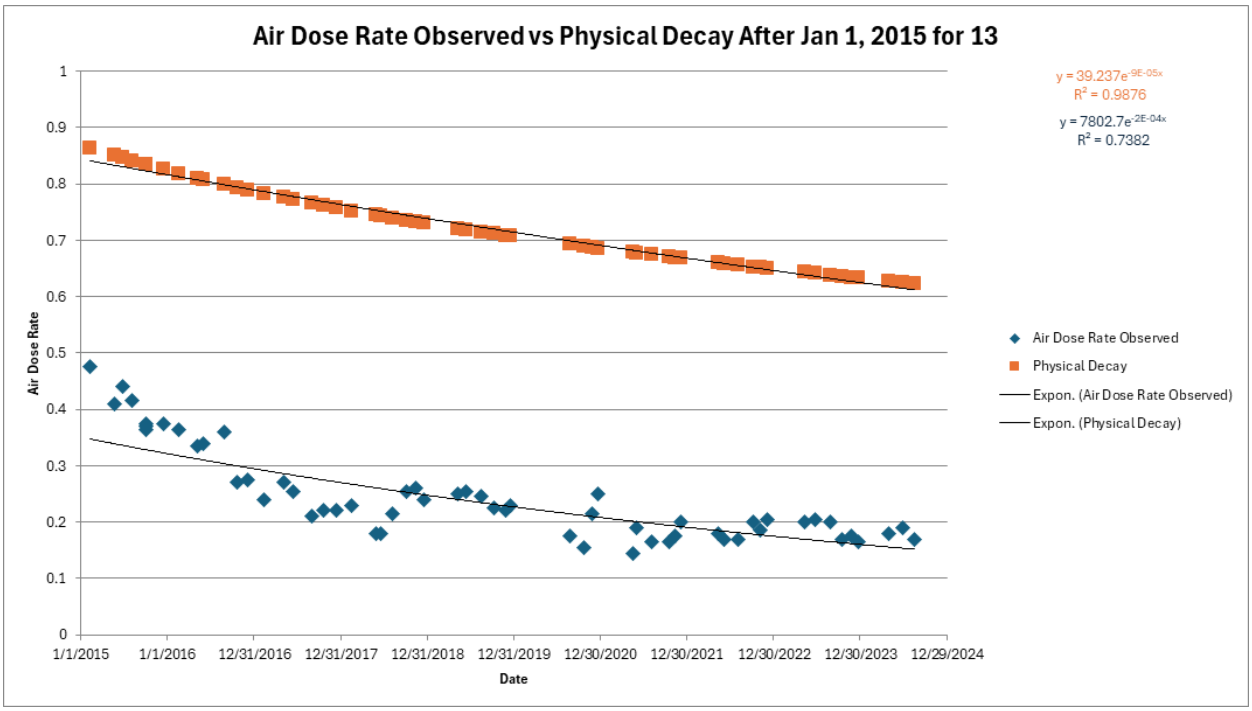

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 8
y = 157.34e-9E-05x
R² = 0.9877
y = 877516e-3E-04x
R² = 0.7552
Air Dose Rate
Date
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

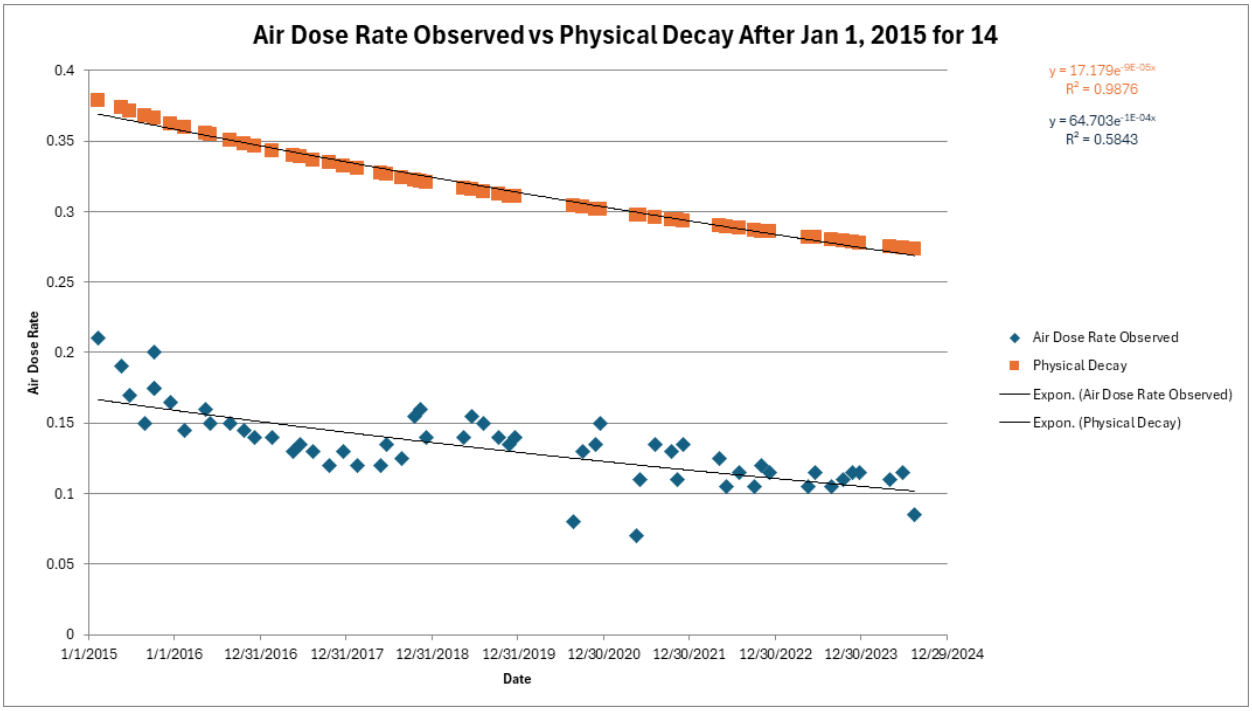

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 9
y = 166.2e-9E-05x
R² = 0.9885
y = 1E+09e-5E-04x
R² = 0.7809
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

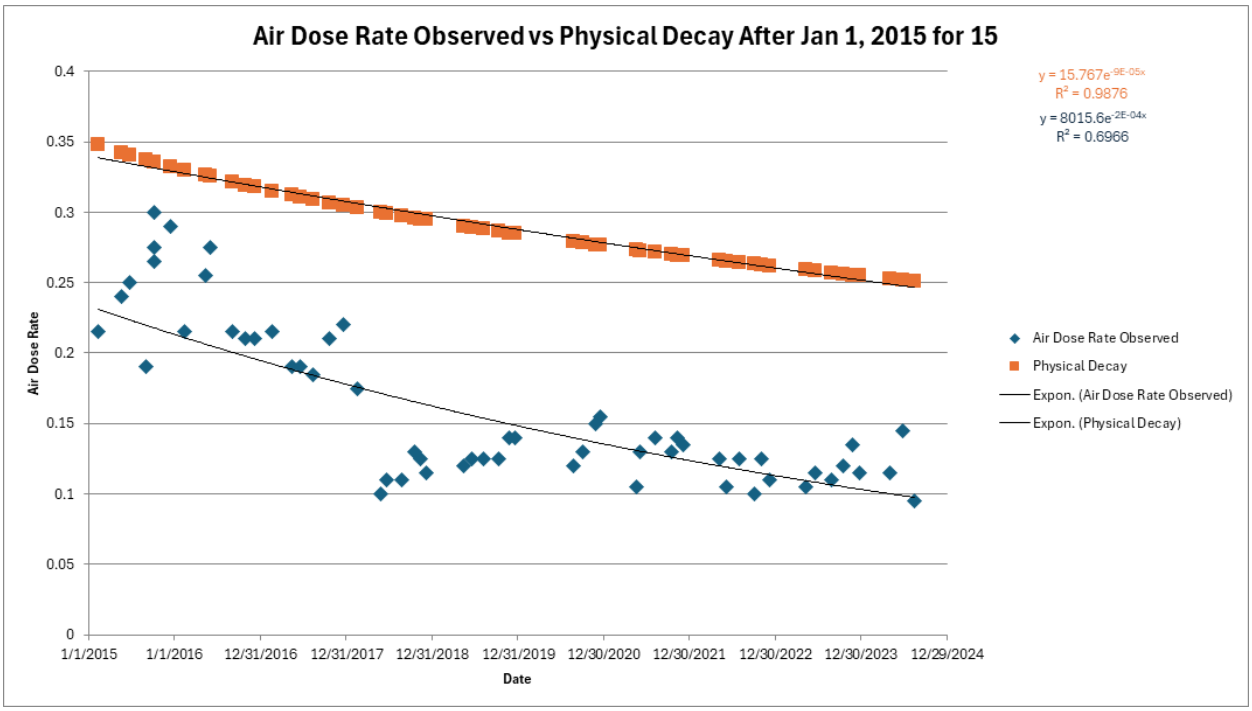

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 10
y = 44.874e-9E-05x
R² = 0.9876
y = 1E+07e-4E-04x
R² = 0.861
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

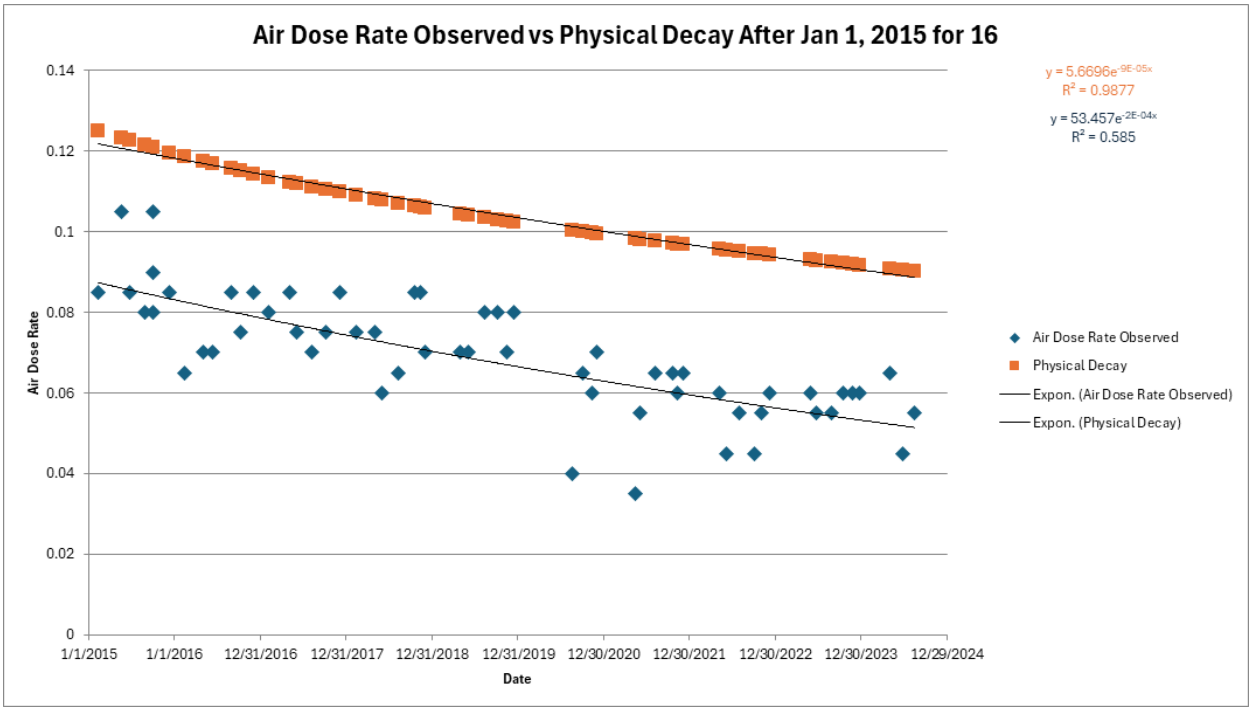

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 11
y = 10.273e-9E-05x
R² = 0.9877
y = 112.97e-2E-04x
R² = 0.489
Air Dose Rate
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

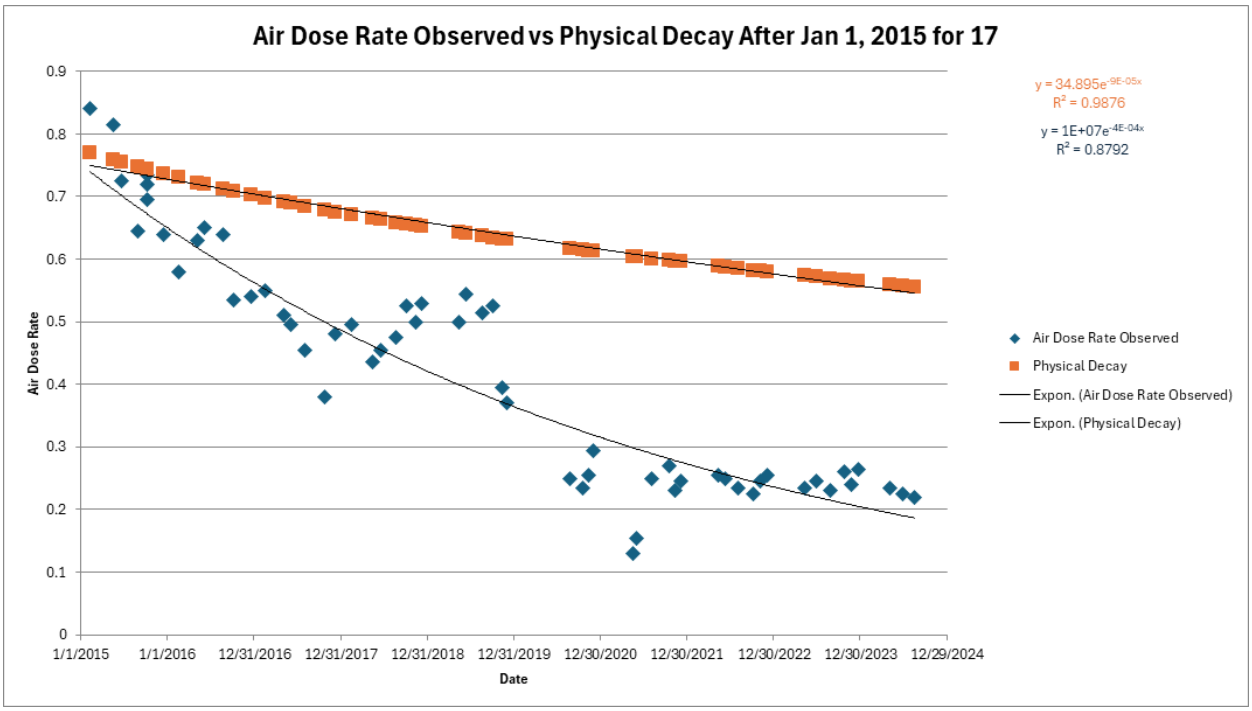

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 12
y = 76.763e-9E-05x
R² = 0.9876
y = 790061e-3E-04x
R² = 0.781
Air Dose Rate
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

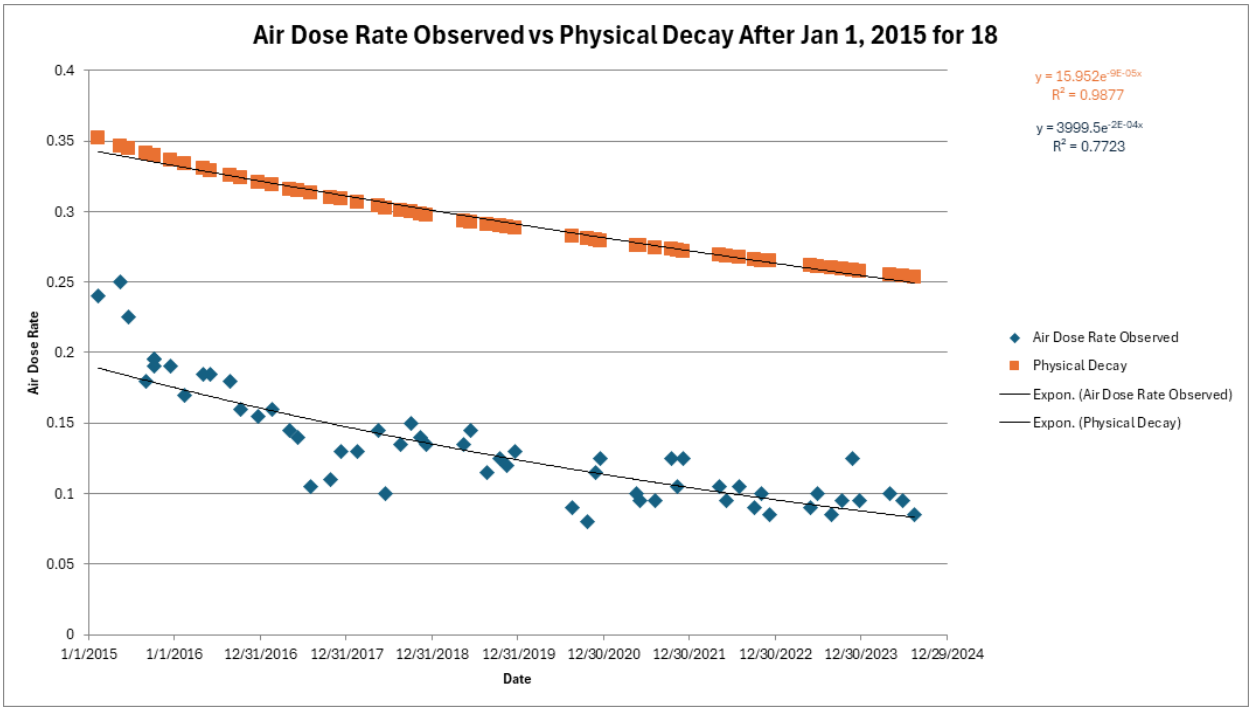

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 13
y = 39.237e-9E-05x
R² = 0.9876
y = 7802.7e-2E-04x
R² = 0.7382
Air Dose Rate
Date
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

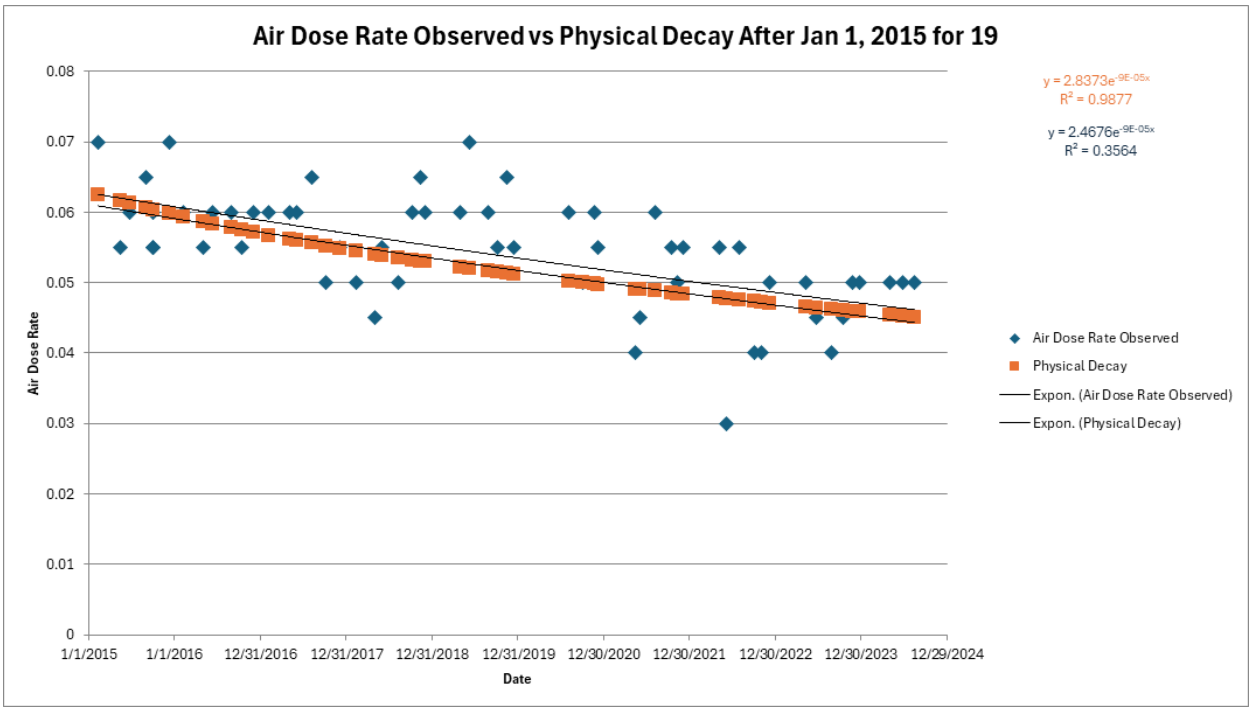

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 14
y = 17.179e-9E-05x
R² = 0.9876
y = 64.703e-1E-04x
R² = 0.5843
Air Dose Rate
Date
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

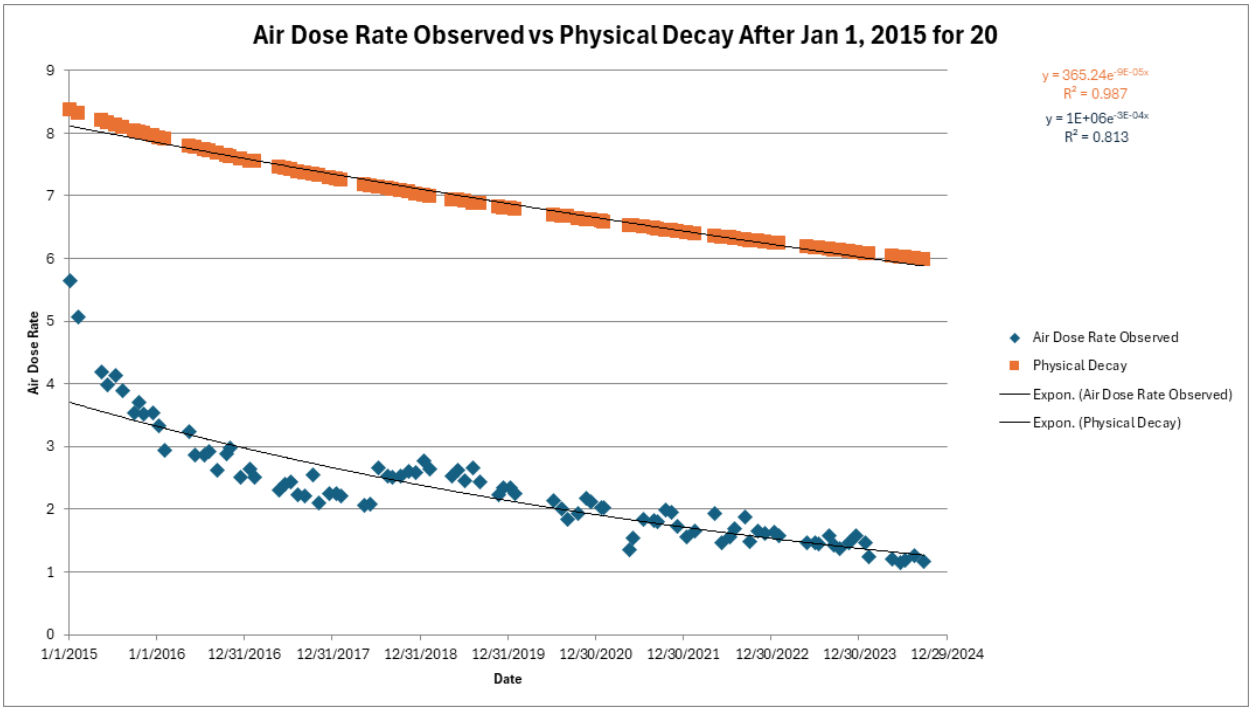

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 15
y = 15.767e-9E-05x
R² = 0.9876
y = 8015.6e-2E-04x
R² = 0.6966
Air Dose Rate
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

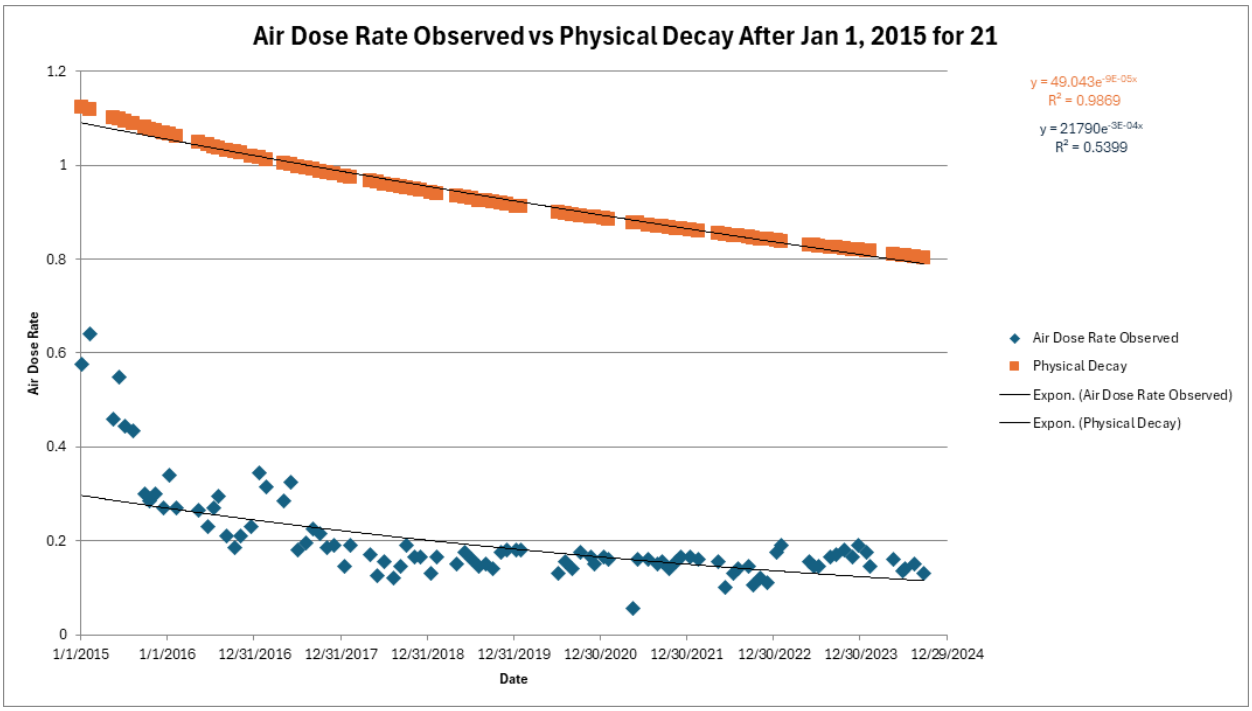

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 16
y = 5.6696e-9E-05x
R² = 0.9877
y = 53.457e-2E-04x
R² = 0.585
Air Dose Rate
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

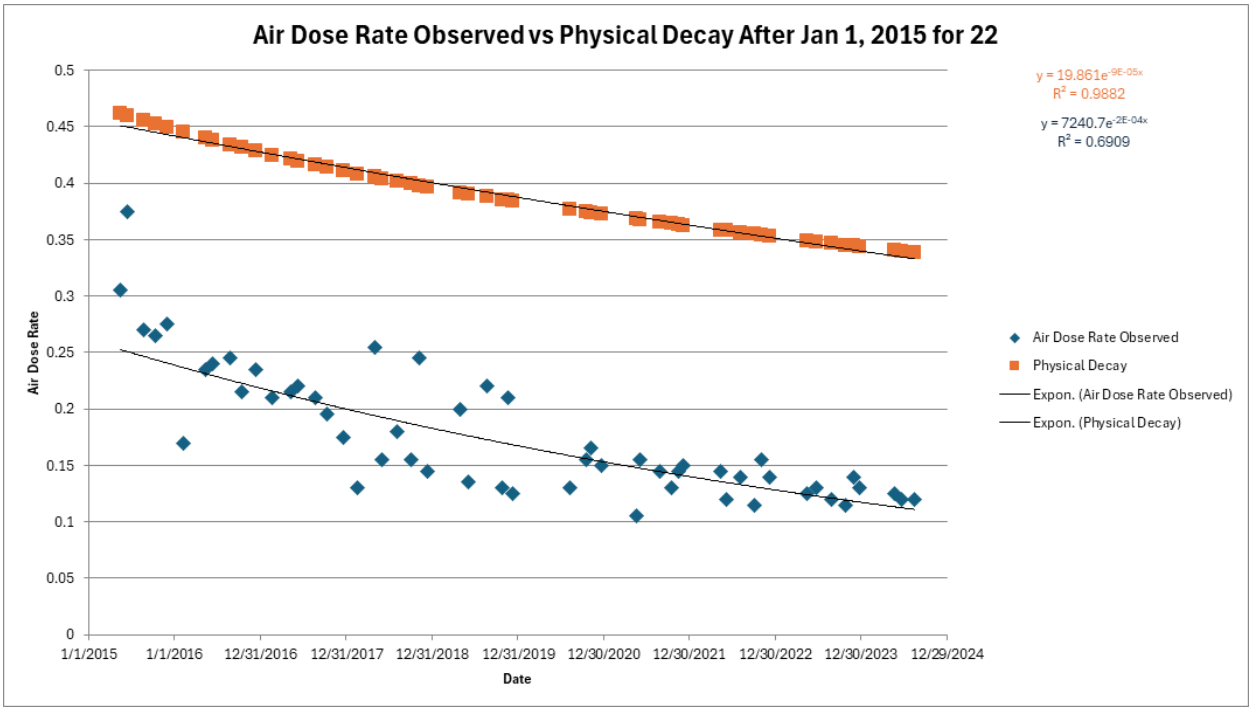

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 17
y = 34.895e-9E-05x
R² = 0.9876
y = 1E+07e-4E-04x
R² = 0.8792
Air Dose Rate
Date
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

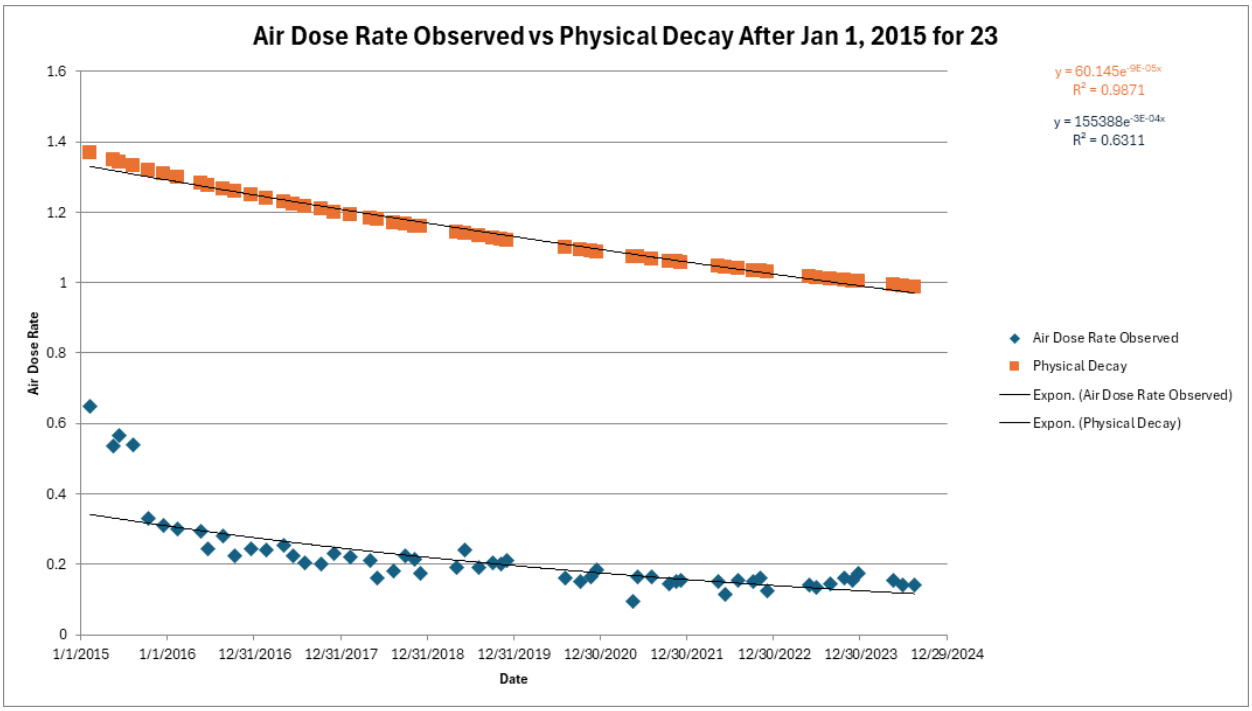

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 18
y = 15.952e-9E-05x
R² = 0.9877
y = 3999.5e-2E-04x
R² = 0.7723
Air Dose Rate
Date
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

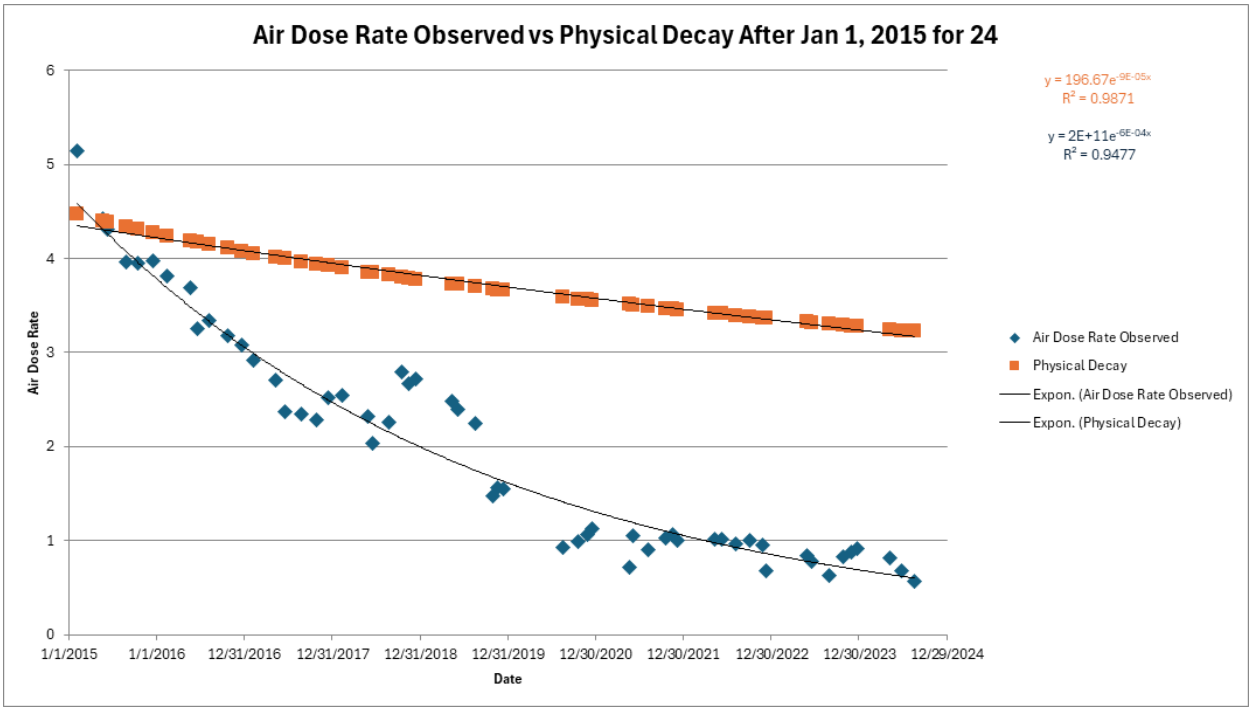

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 19
y = 2.8373e-9E-05x
R² = 0.9877
y = 2.4676e-9E-05x
R² = 0.3564
Air Dose Rate
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

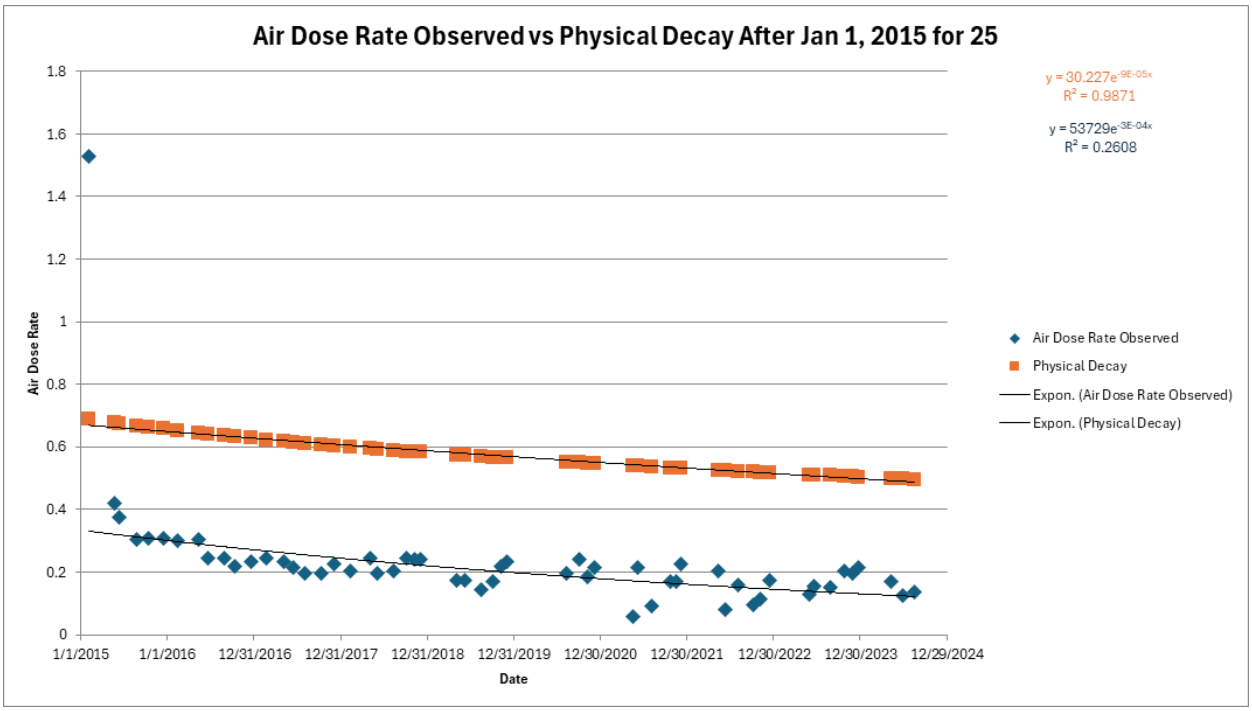

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 20
y = 365.24e-9E-05x
R² = 0.987
y = 1E+06e-3E-04x
R² = 0.813
Air Dose Rate
9
8
7
6
5
4
3
2
1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

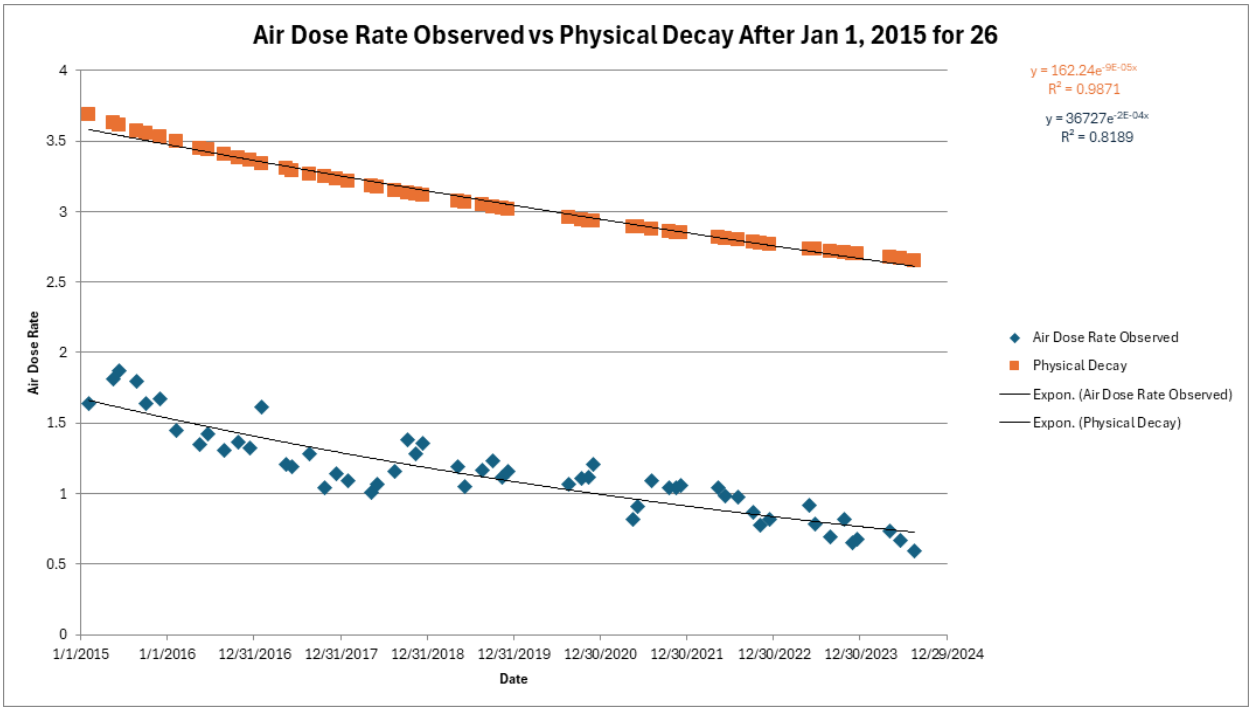

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 21
y = 49.043e-9E-05x
R² = 0.9869
y = 21790e-3E-04x
R² = 0.5399
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

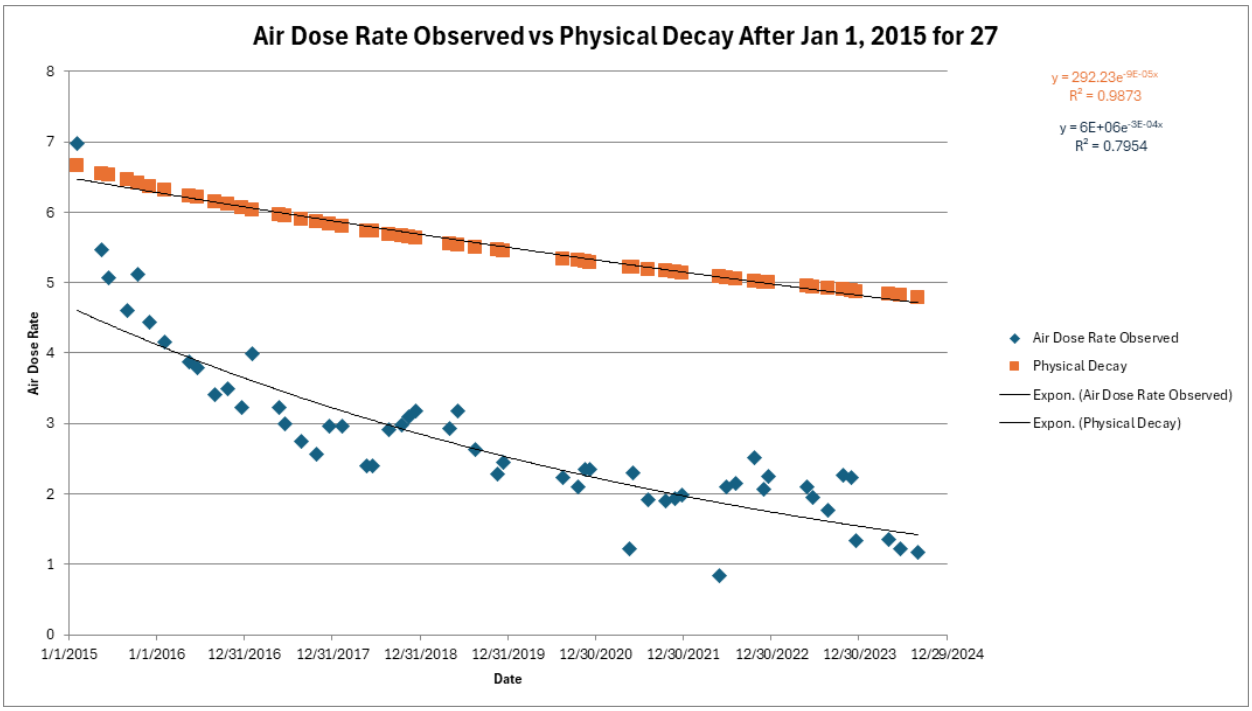

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 22
y = 19.861e-9E-05x
R² = 0.9882
y = 7240.7e-2E-04x
R² = 0.6909
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

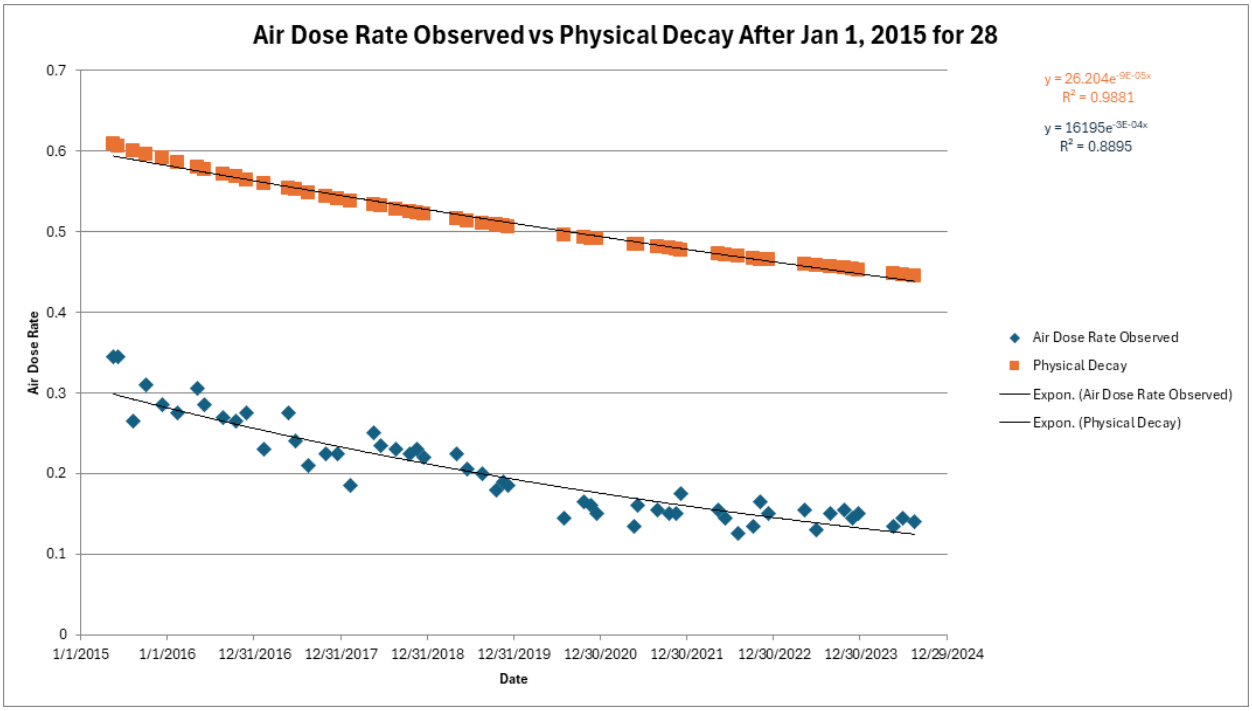

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 23
y = 60.145e-9E-05x
R² = 0.9871
y = 155388e-3E-04x
R² = 0.6311
Air Dose Rate
Date
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

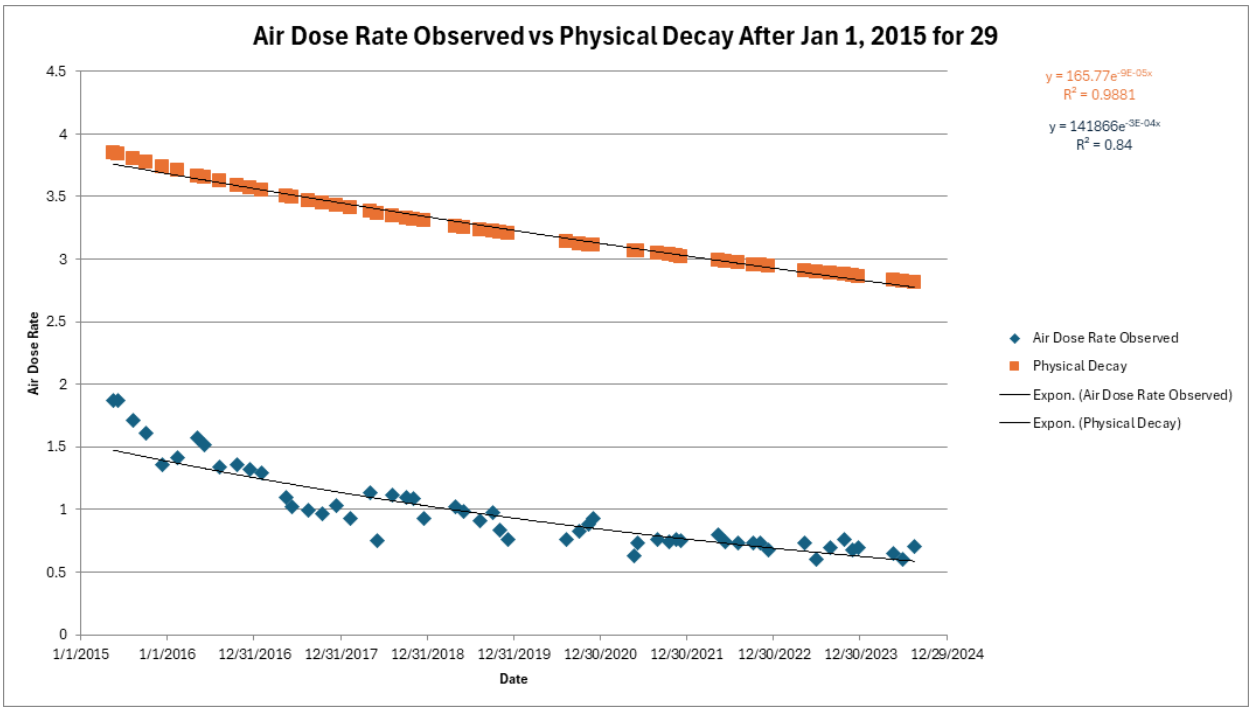

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 24
y = 196.67e-9E-05x
R² = 0.9871
y = 2E+11e-6E-04x
R² = 0.9477
Air Dose Rate
Date
6
5
4
3
2
1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

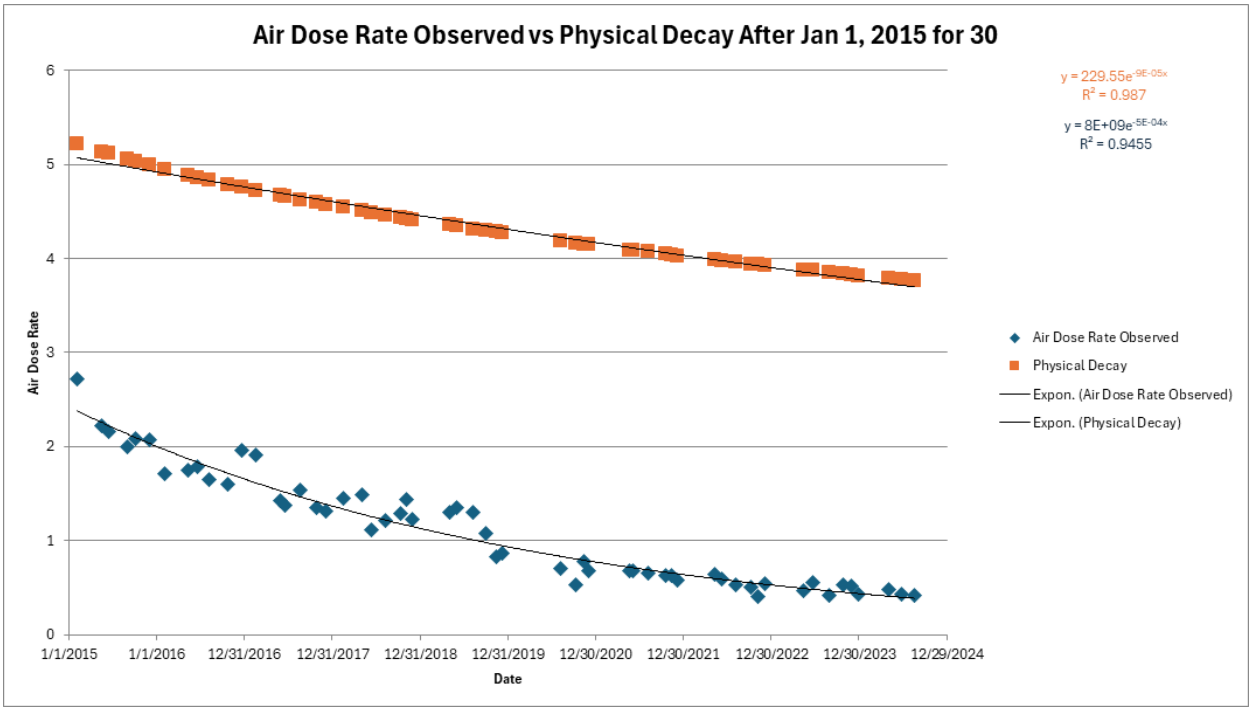

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 25
y = 30.227e-9E-05x
R² = 0.9871
y = 53729e-3E-04x
R² = 0.2608
Air Dose Rate
Date
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

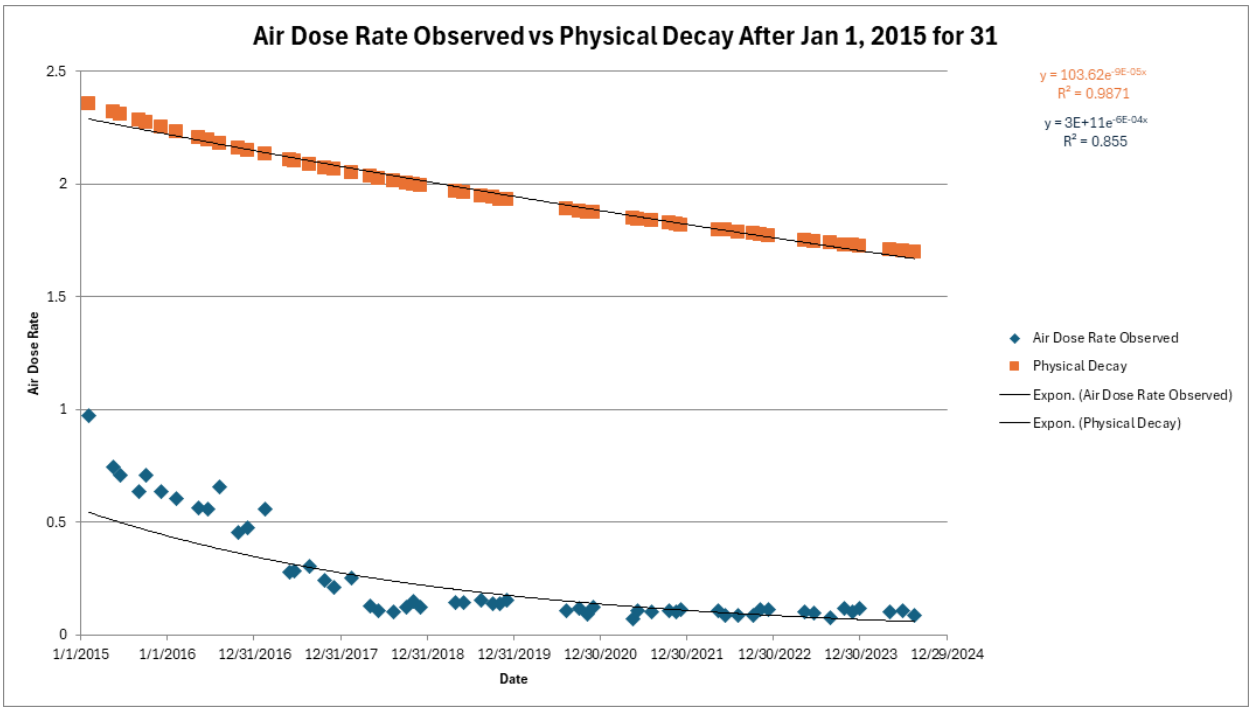

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 26
y = 162.24e-9E-05x
R² = 0.9871
y = 36727e-2E-04x
R² = 0.8189
Air Dose Rate
Date
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

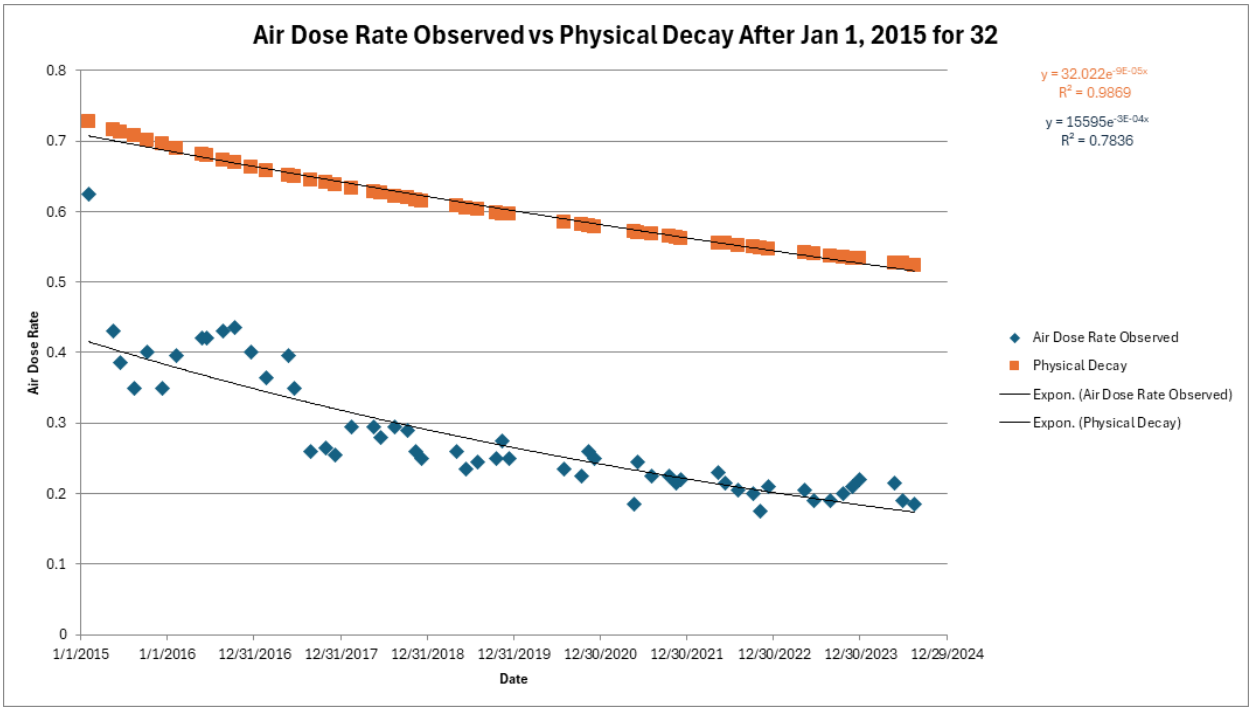

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 27
y = 292.23e-9E-05x
R² = 0.9873
y = 6E+06e-3E-04x
R² = 0.7954
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

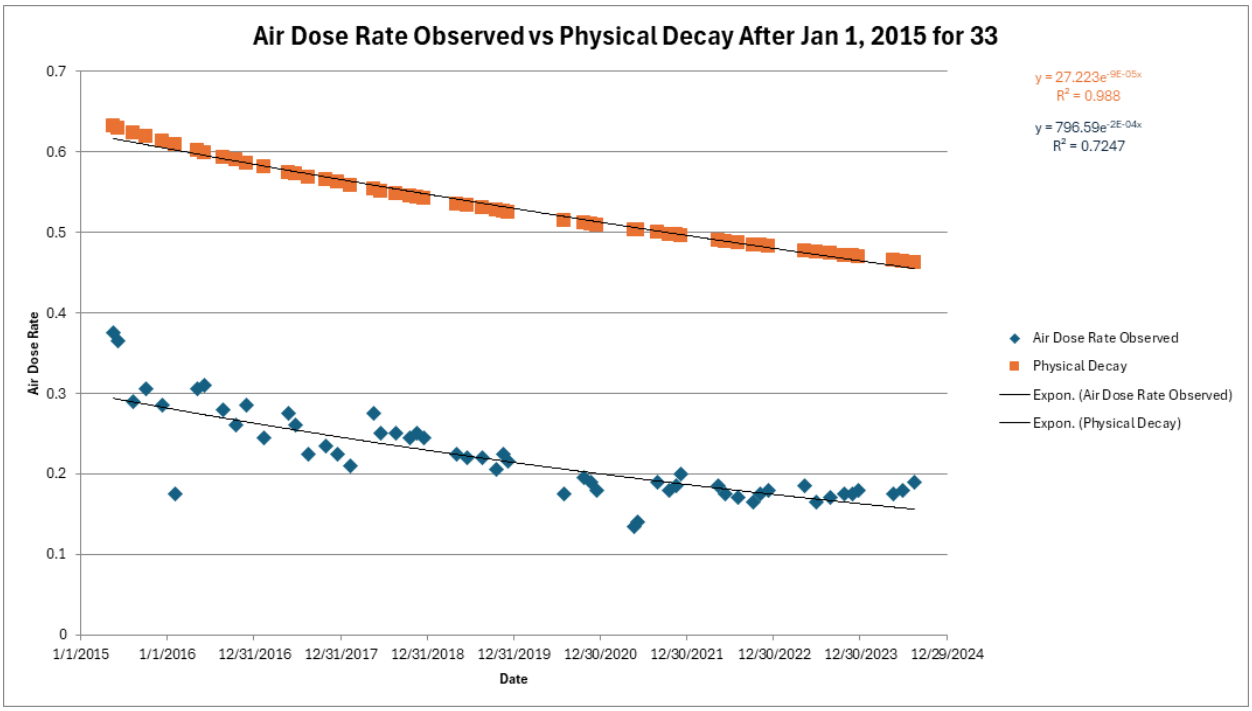

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 28
y = 26.204e-9E-05x
R² = 0.9881
y = 16195e-3E-04x
R² = 0.8895
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

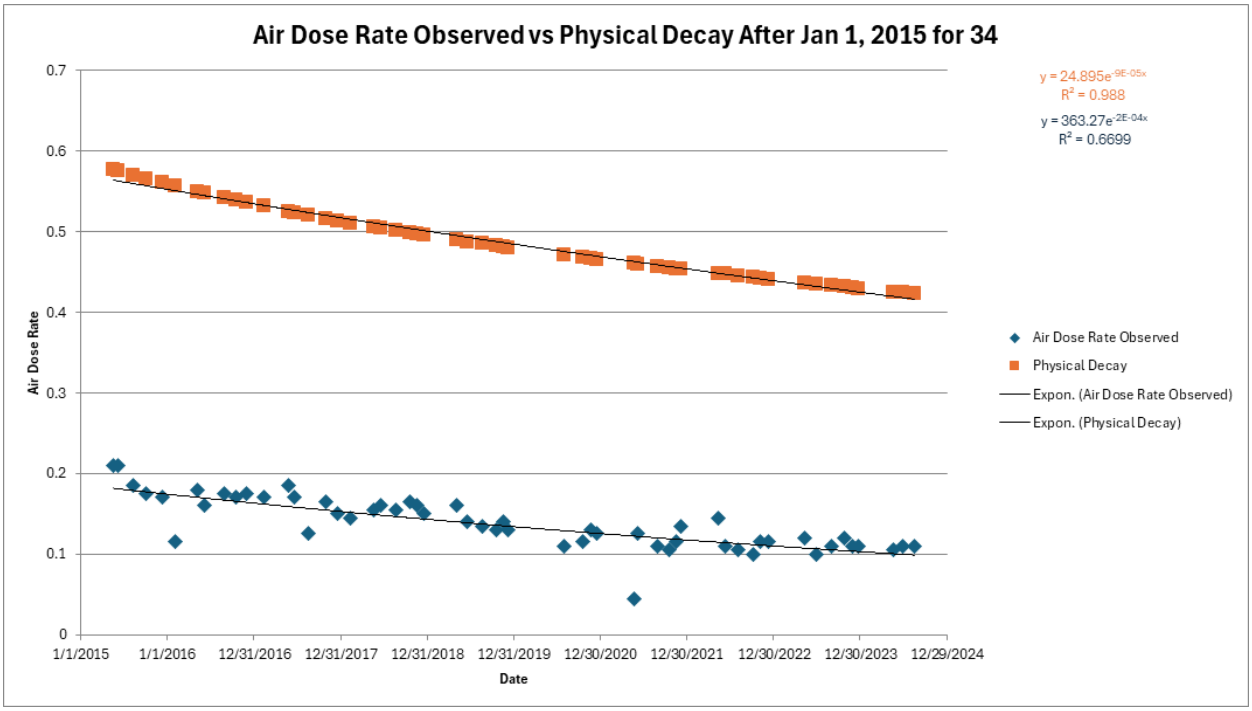

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 29
y = 165.77e-9E-05x
R² = 0.9881
y = 141866e-3E-04x
R² = 0.84
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

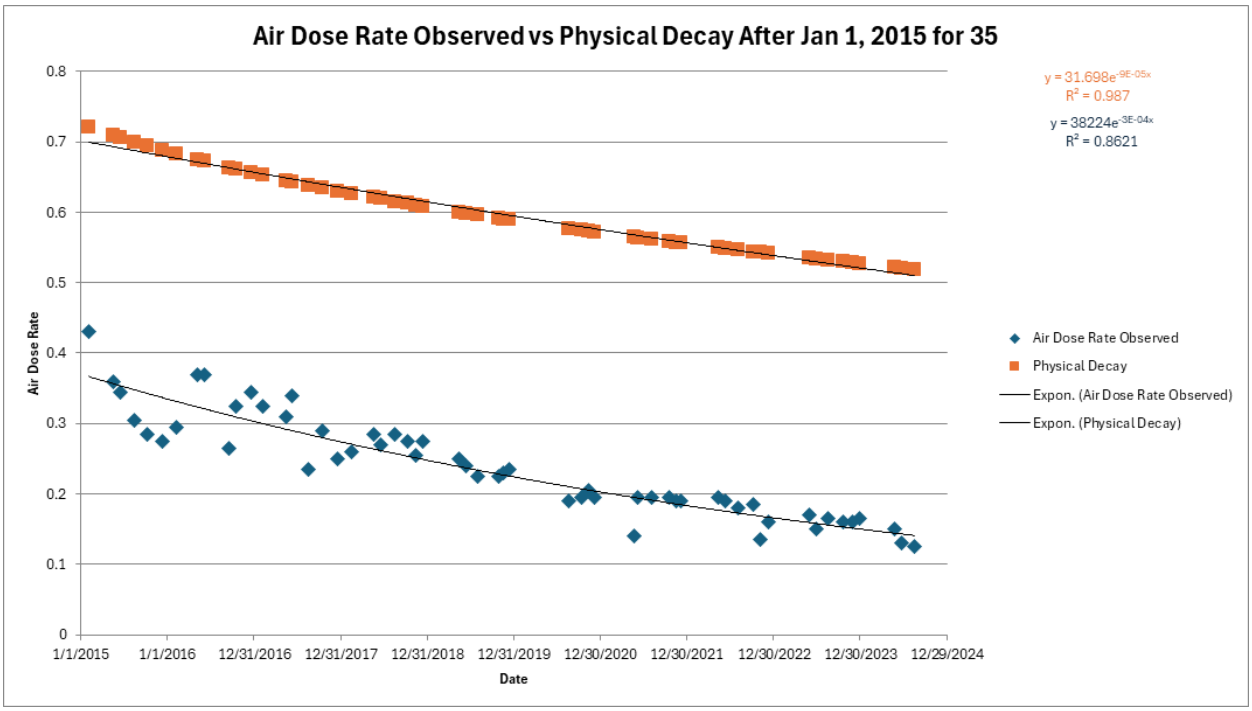

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 30
y = 229.55e-9E-05x
R² = 0.987
y = 8E+09e-5E-04x
R² = 0.9455
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
6
5
4
3
2
1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

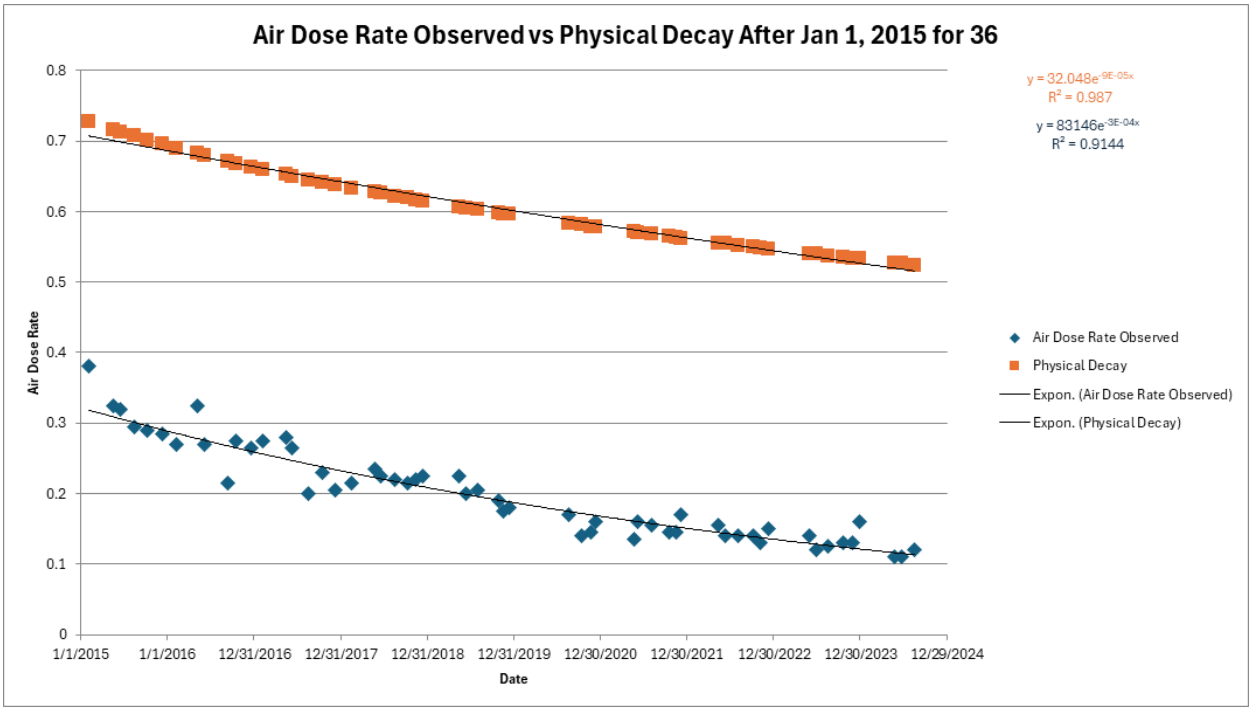

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 31
y = 103.62e-9E-05x
R² = 0.9871
y = 3E+11e-6E-04x
R² = 0.855
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
2.5
2
1.5
1
0.5
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

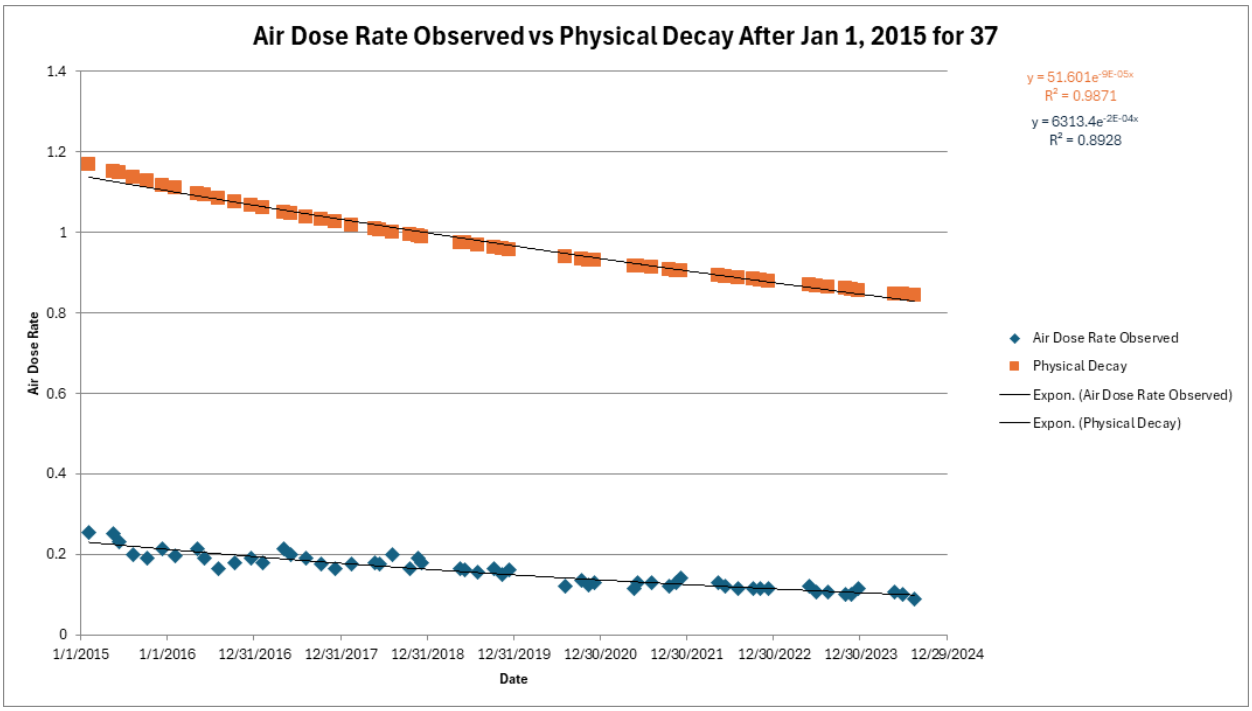

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 32
y = 32.022e-9E-05x
R² = 0.9869
y = 15595e-3E-04x
R² = 0.7836
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

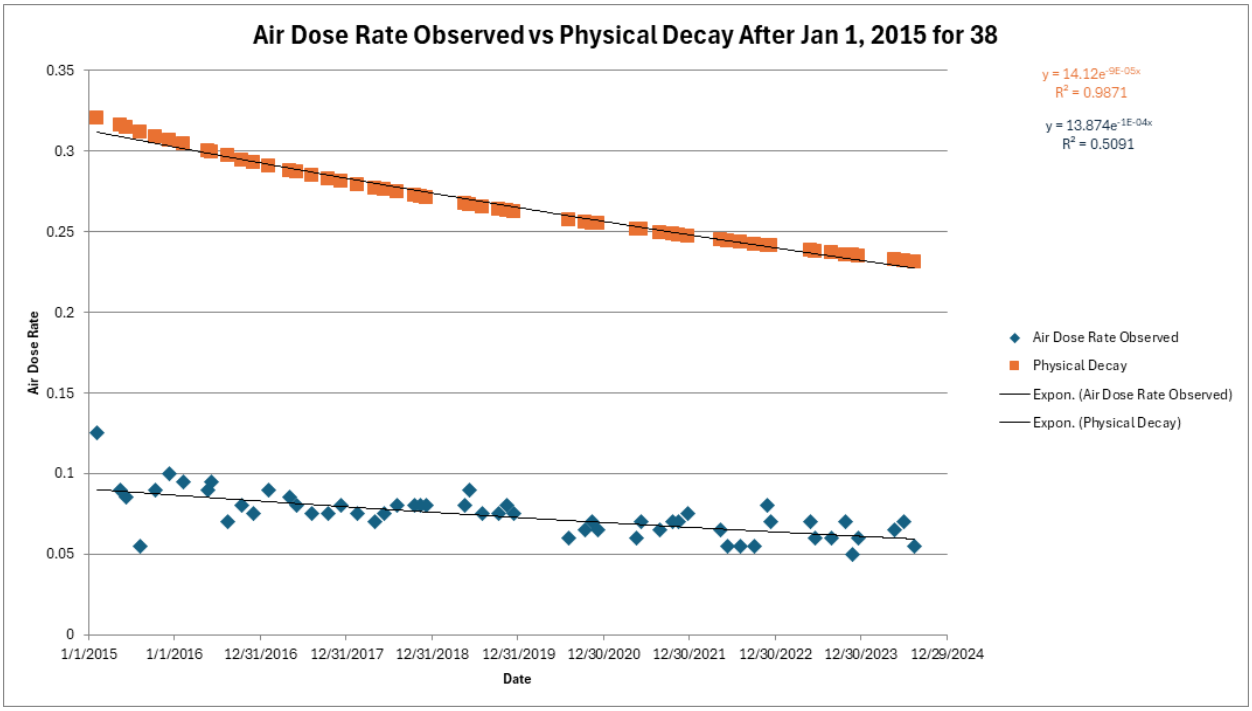

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 33
y = 27.223e-9E-05x
R² = 0.988
y = 796.59e-2E-04x
R² = 0.7247
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

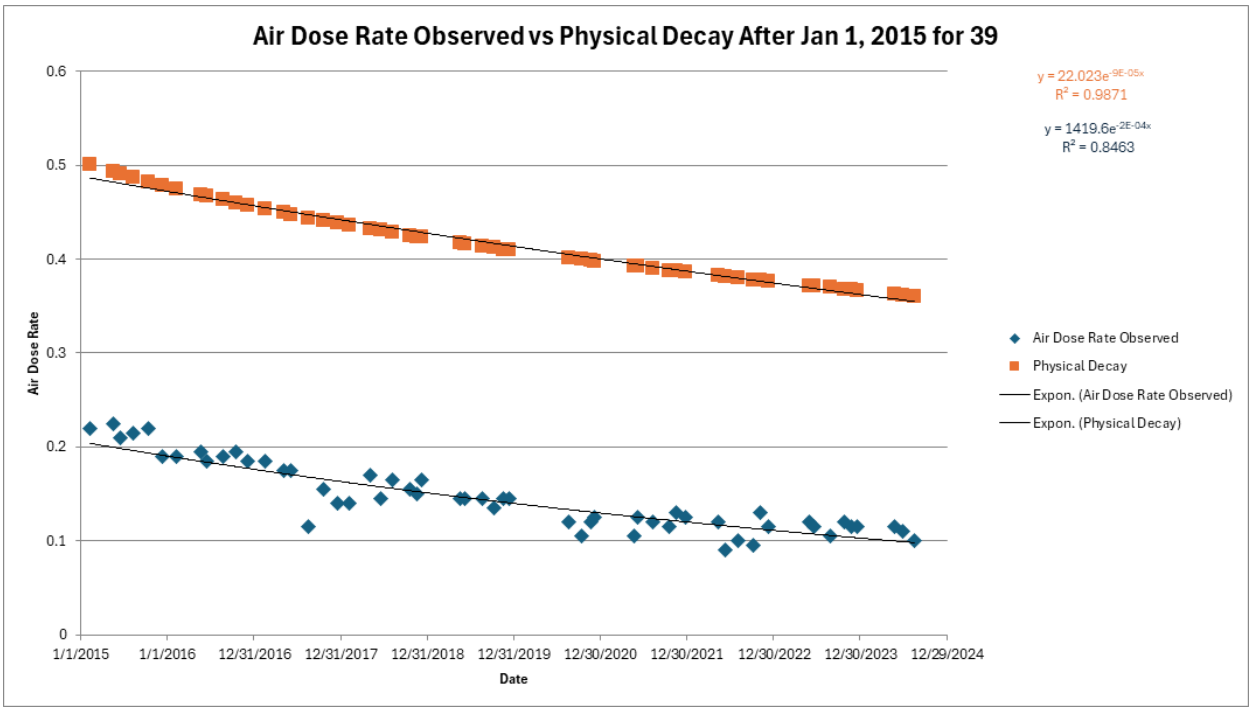

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 34
y = 24.895e-9E-05x
R² = 0.988
y = 363.27e-2E-04x
R² = 0.6699
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

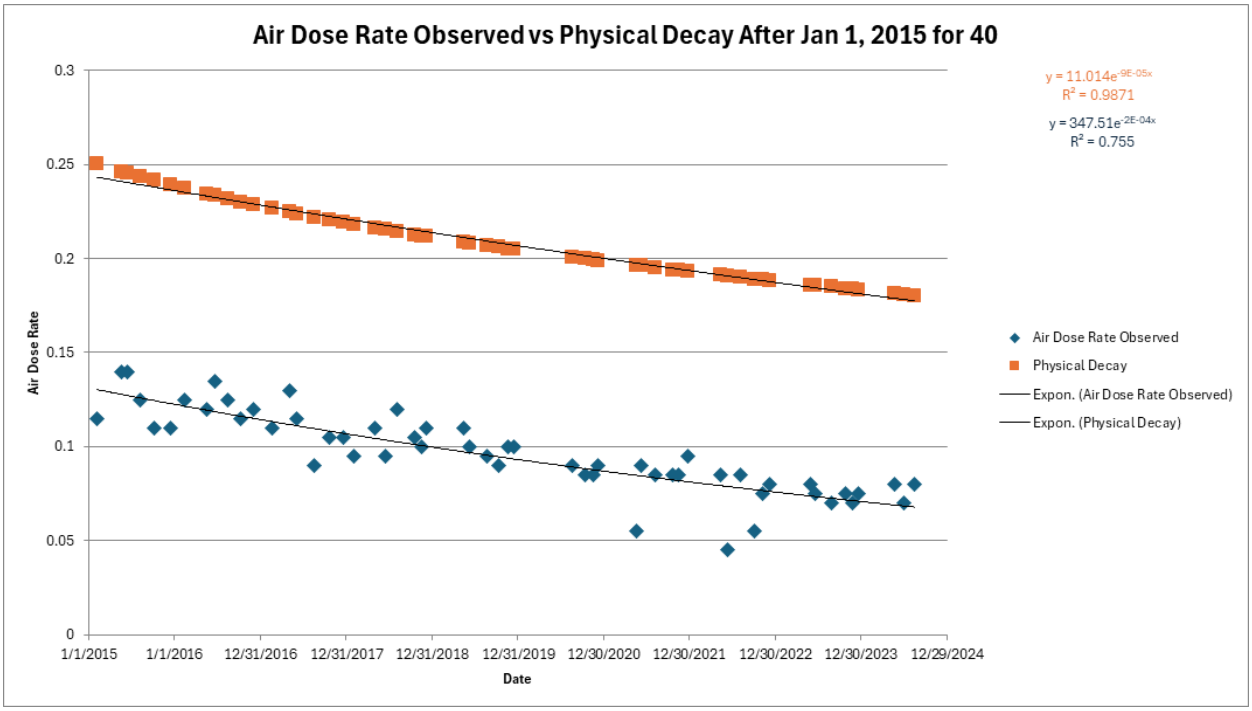

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 35
y = 31.698e-9E-05x
R² = 0.987
y = 38224e-3E-04x
R² = 0.8621
Air Dose Rate
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

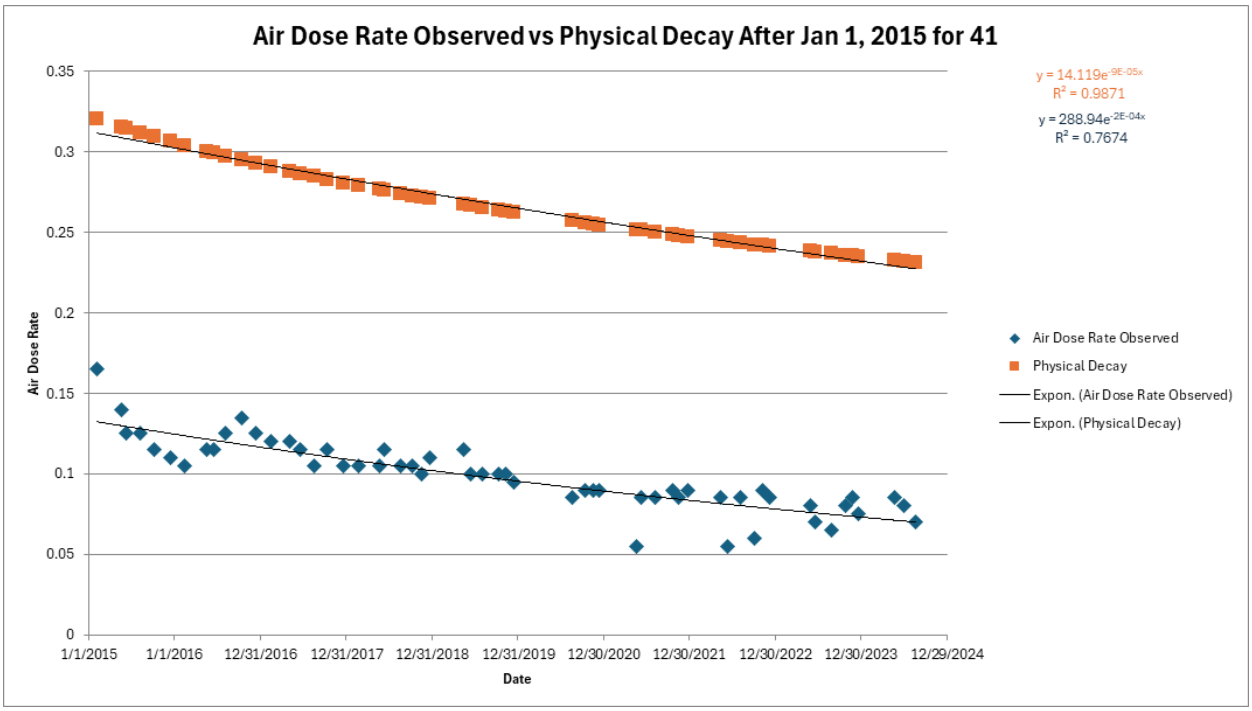

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 36
y = 32.048e-9E-05x
R² = 0.987
y = 83146e-3E-04x
R² = 0.9144
Air Dose Rate
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

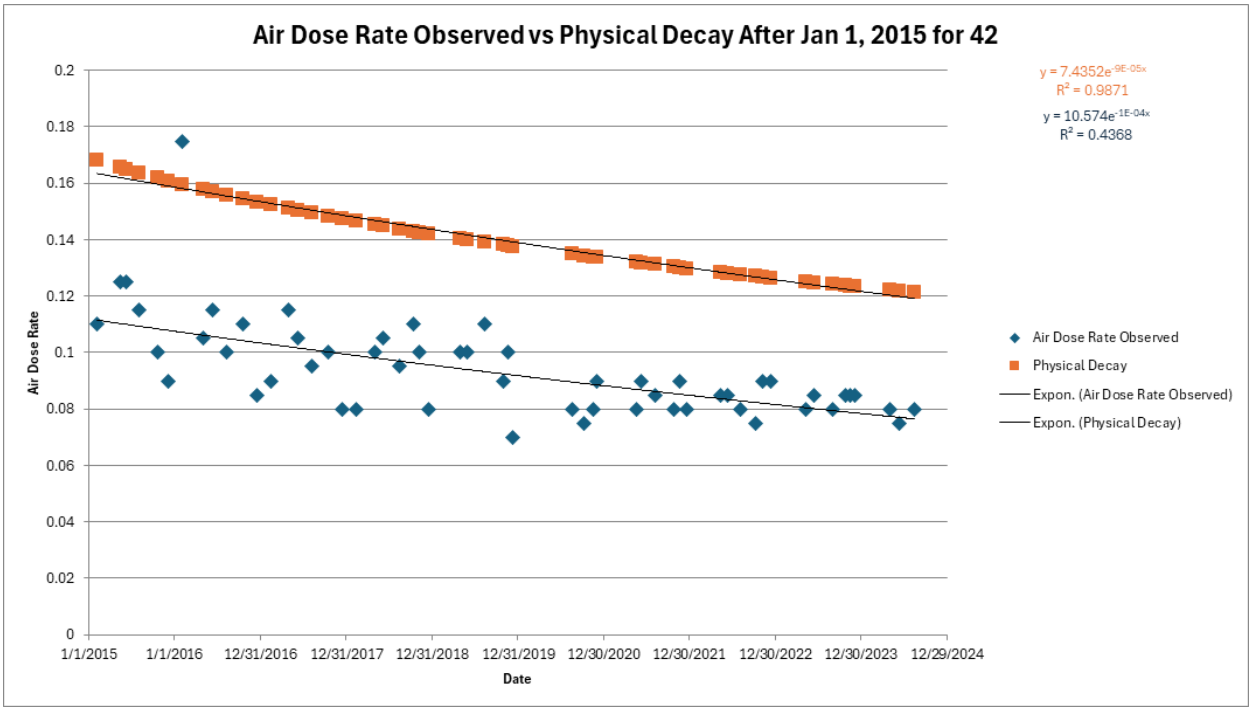

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 37
y = 51.601e-9E-05x
R² = 0.9871
y = 6313.4e-2E-04x
R² = 0.8928
Air Dose Rate
Date
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

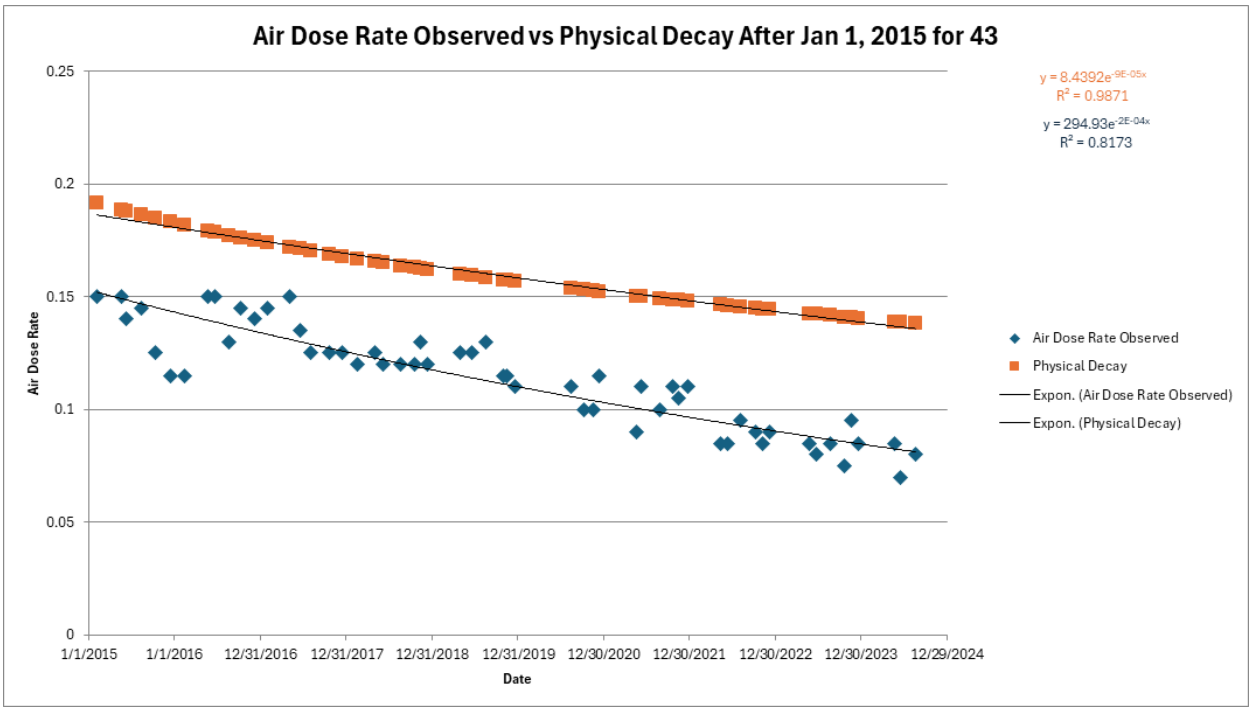

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 38
y = 14.12e-9E-05x
R² = 0.9871
y = 13.874e-1E-04x
R² = 0.5091
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

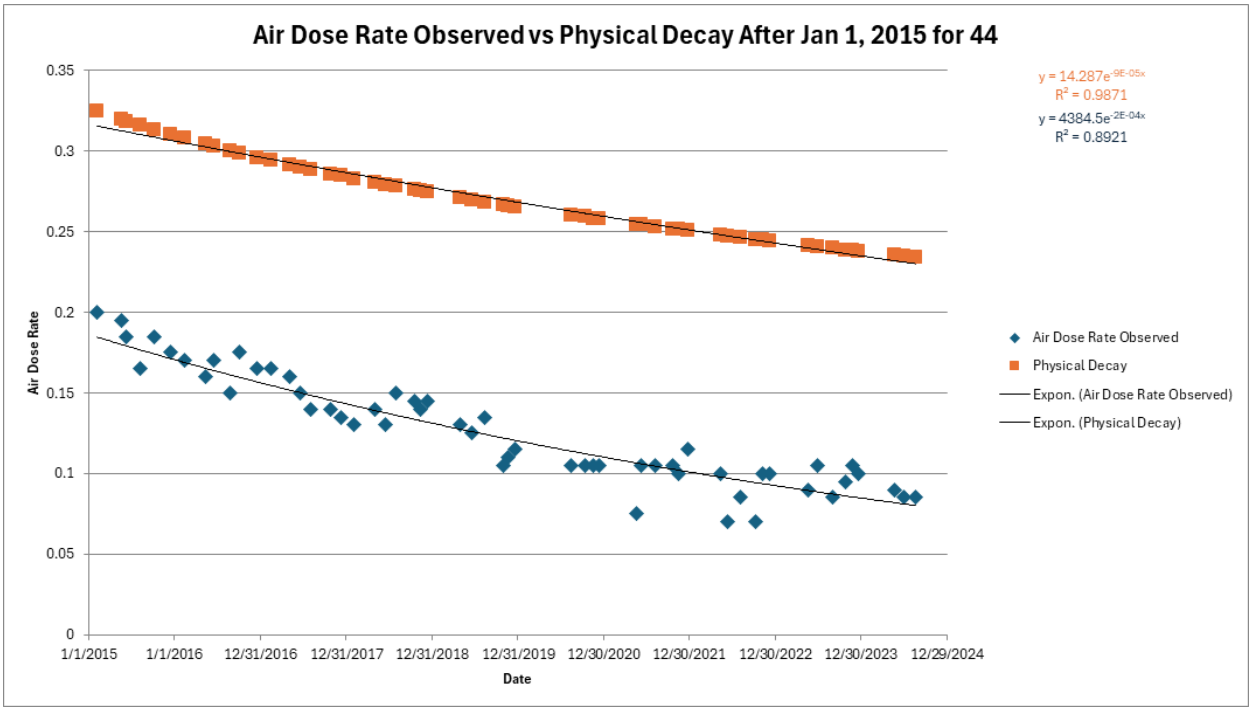

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 39
y = 22.023e-9E-05x
R² = 0.9871
y = 1419.6e-2E-04x
R² = 0.8463
Air Dose Rate
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

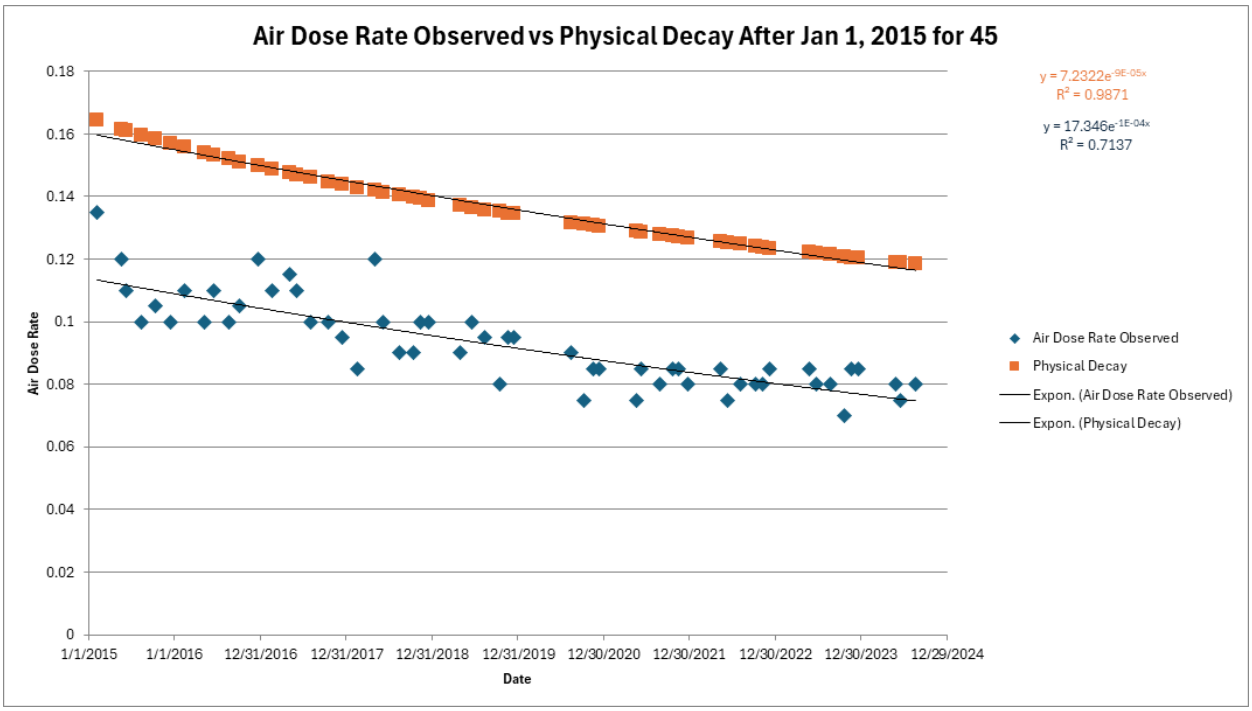

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 40
y = 11.014e-9E-05x
R² = 0.9871
y = 347.51e-2E-04x
R² = 0.755
Air Dose Rate
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

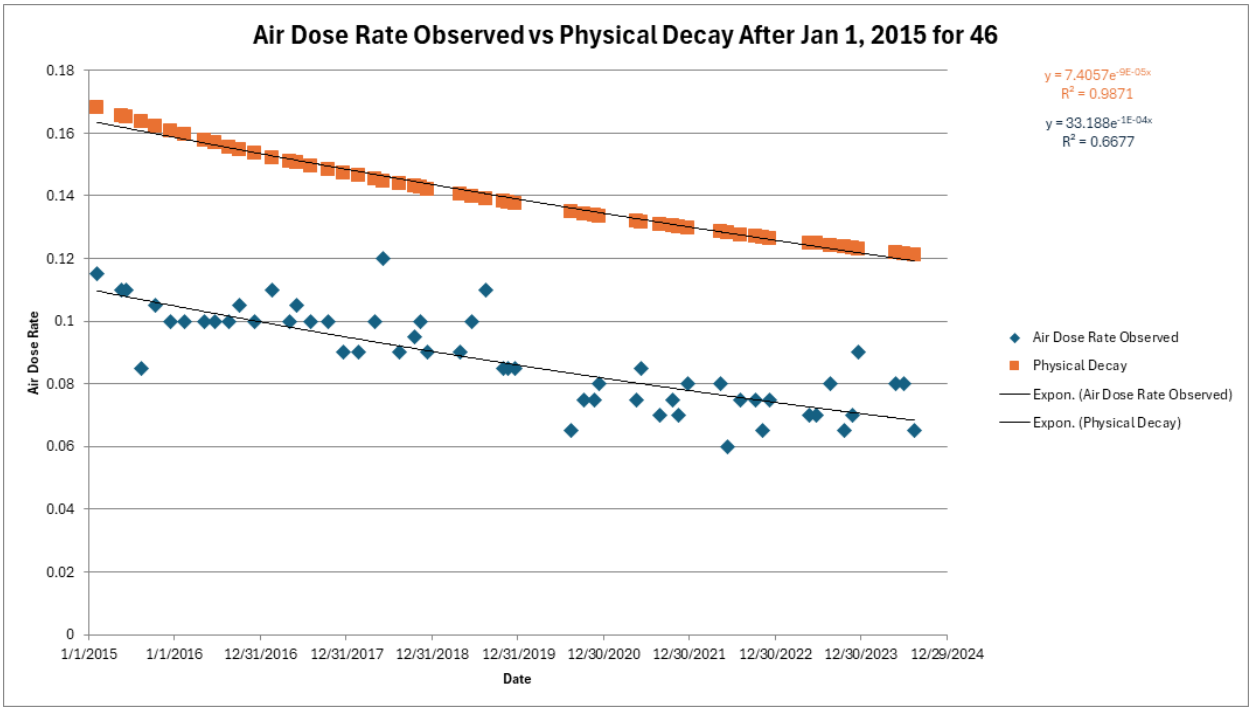

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 41
y = 14.119e-9E-05x
R² = 0.9871
y = 288.94e-2E-04x
R² = 0.7674
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

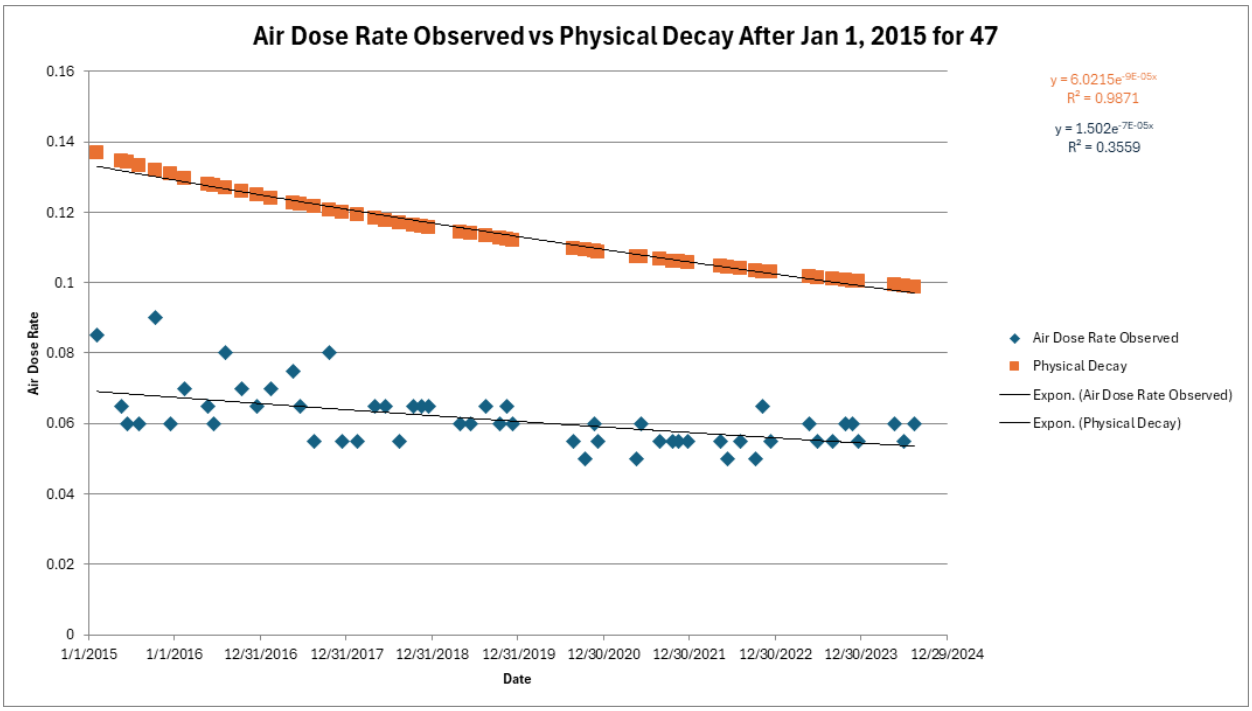

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 42
y = 7.4352e-9E-05x
R² = 0.9871
y = 10.574e-1E-04x
R² = 0.4368
Air Dose Rate
Date
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

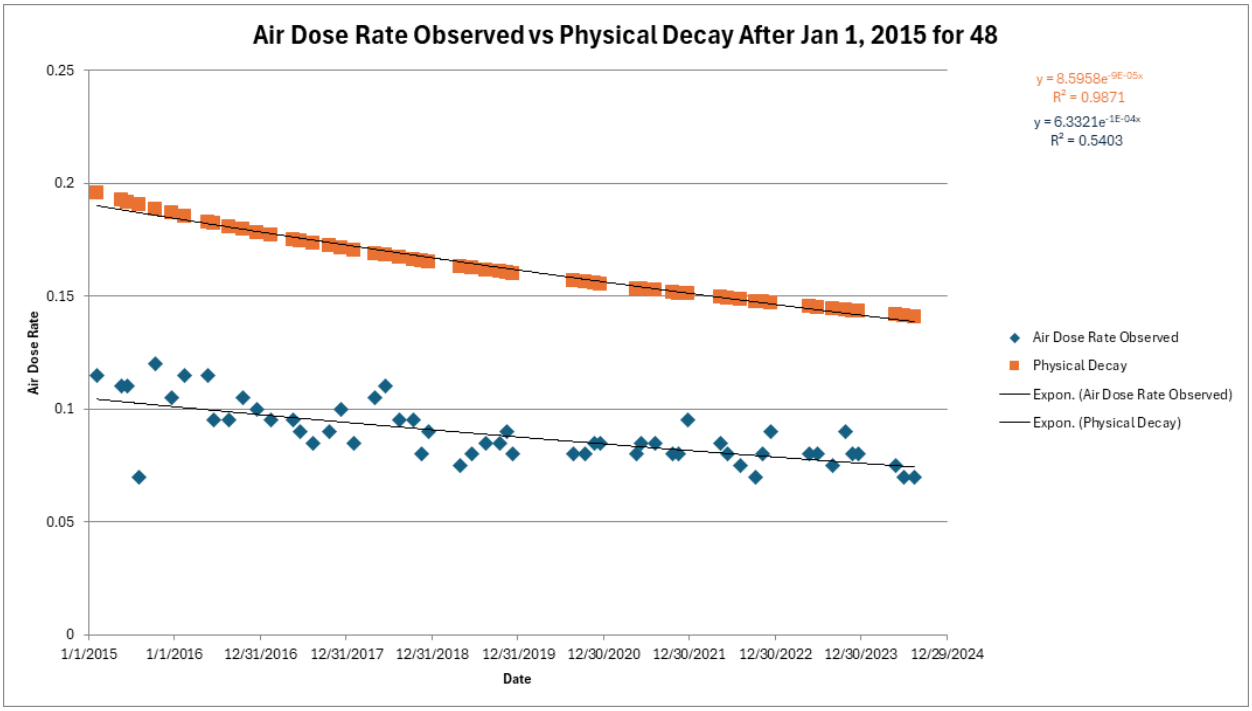

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 43
y = 8.4392e-9E-05x
R² = 0.9871
y = 294.93e-2E-04x
R² = 0.8173
Air Dose Rate
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

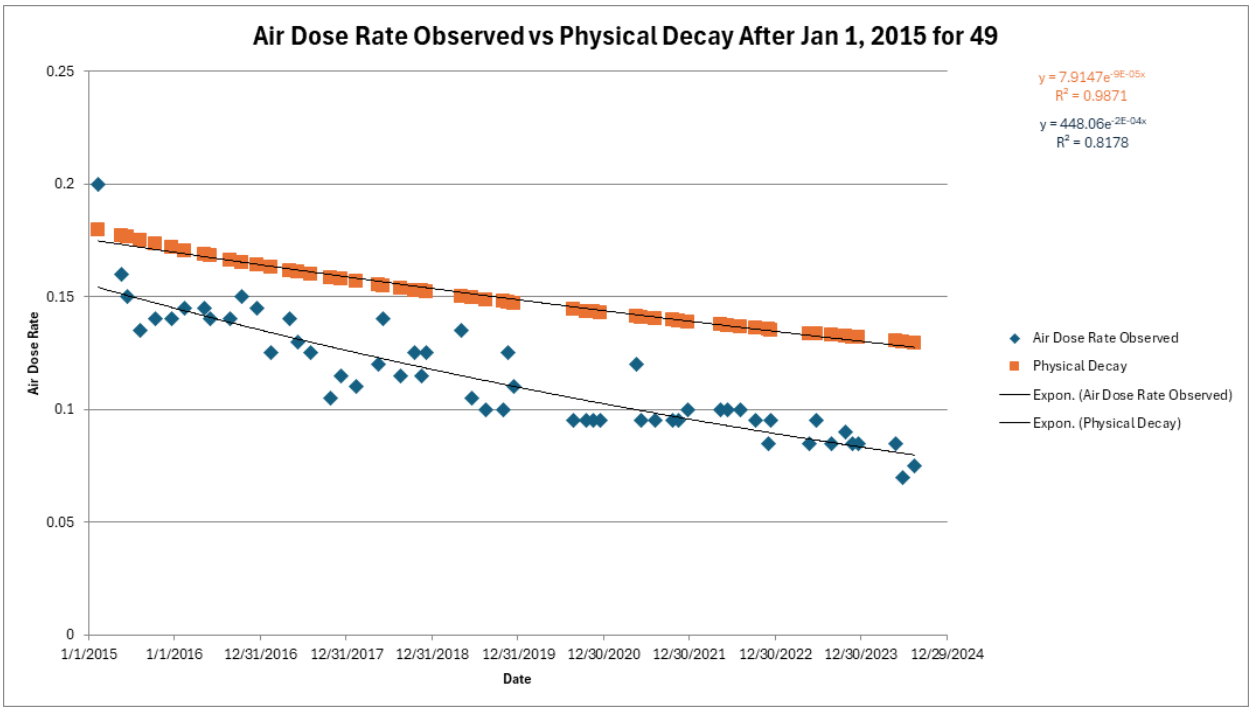

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 44
y = 14.287e-9E-05x
R² = 0.9871
y = 4384.5e-2E-04x
R² = 0.8921
Air Dose Rate
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

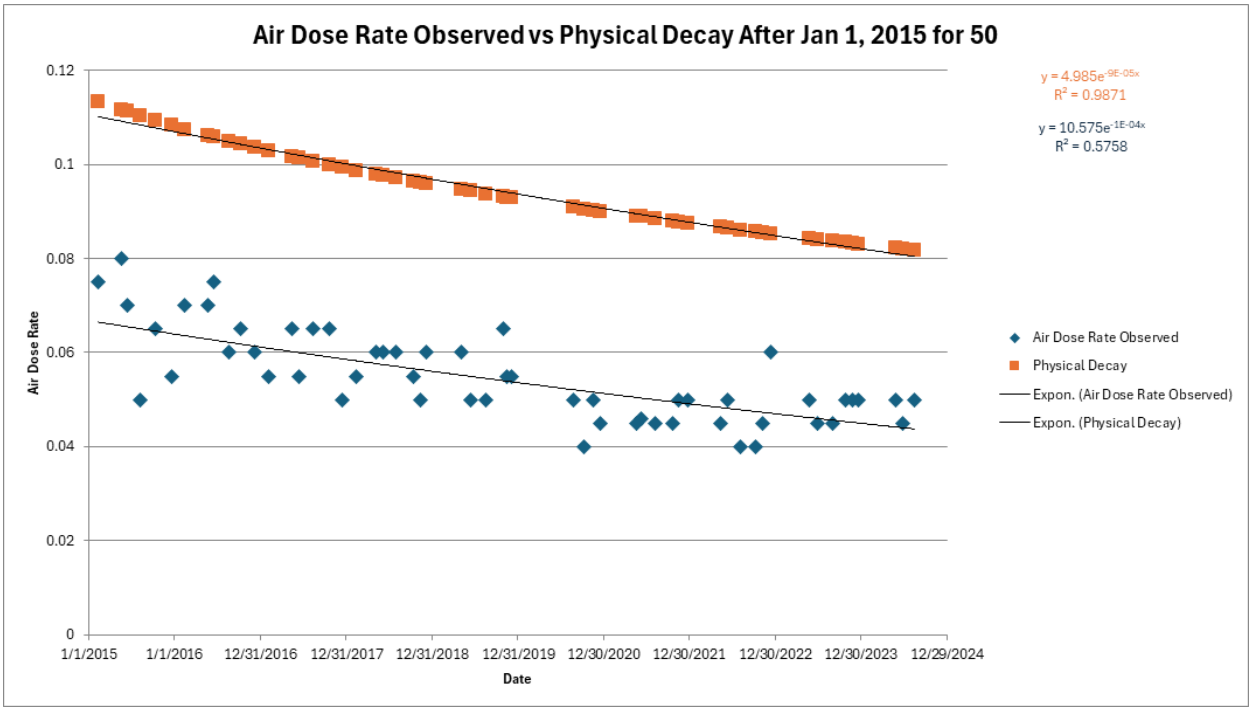

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 45
y = 7.2322e-9E-05x
R² = 0.9871
y = 17.346e-1E-04x
R² = 0.7137
Air Dose Rate
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

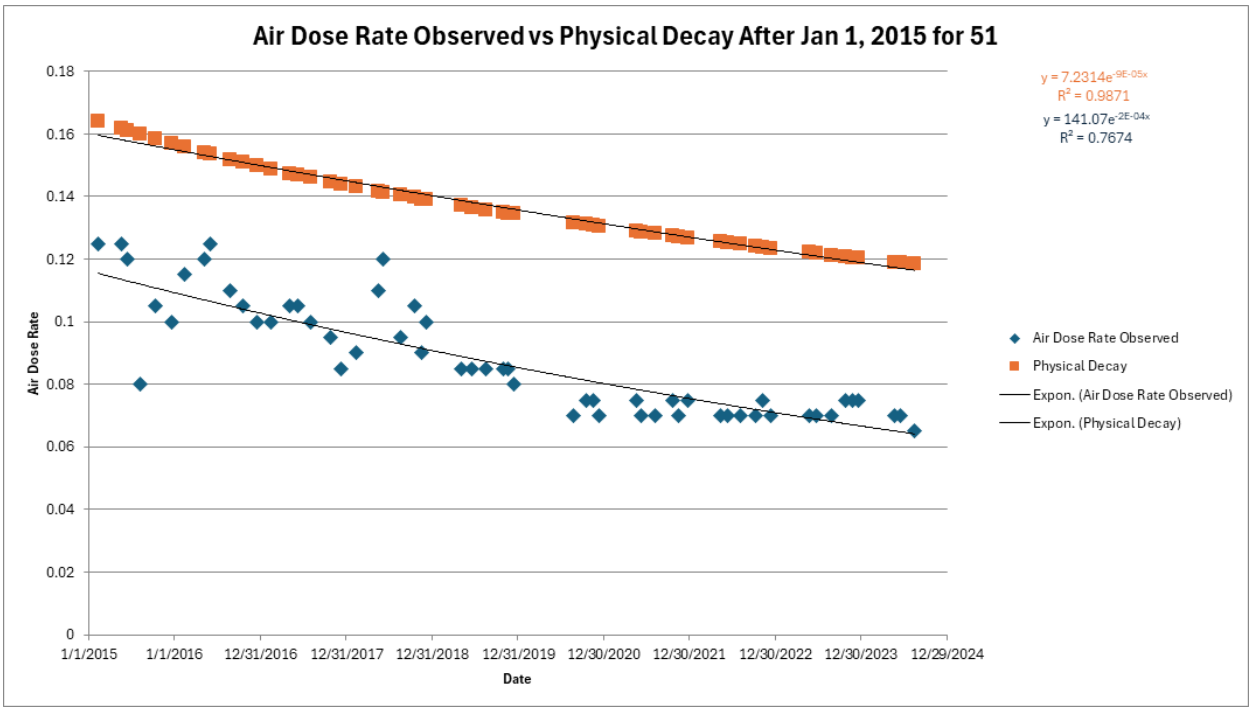

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 46
y = 7.4057e-9E-05x
R² = 0.9871
y = 33.188e-1E-04x
R² = 0.6677
Air Dose Rate
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

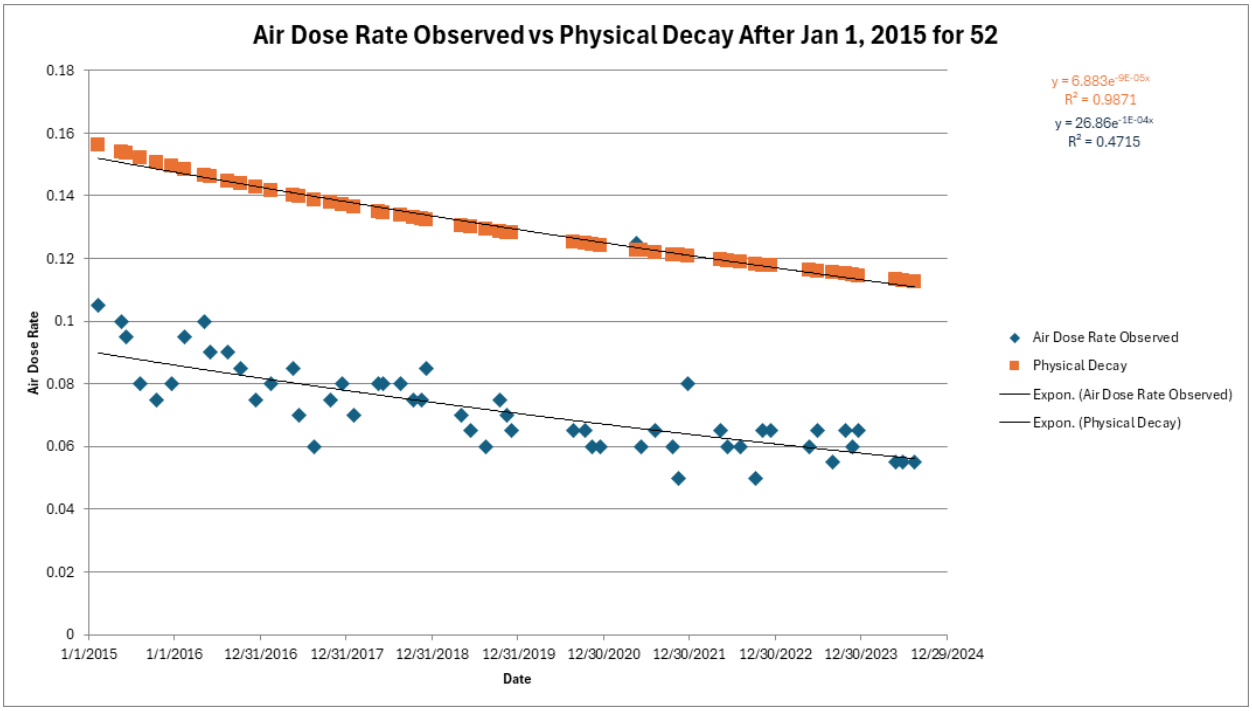

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 47
y = 6.0215e-9E-05x
R² = 0.9871
y = 1.502e-7E-05x
R² = 0.3559
Air Dose Rate
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

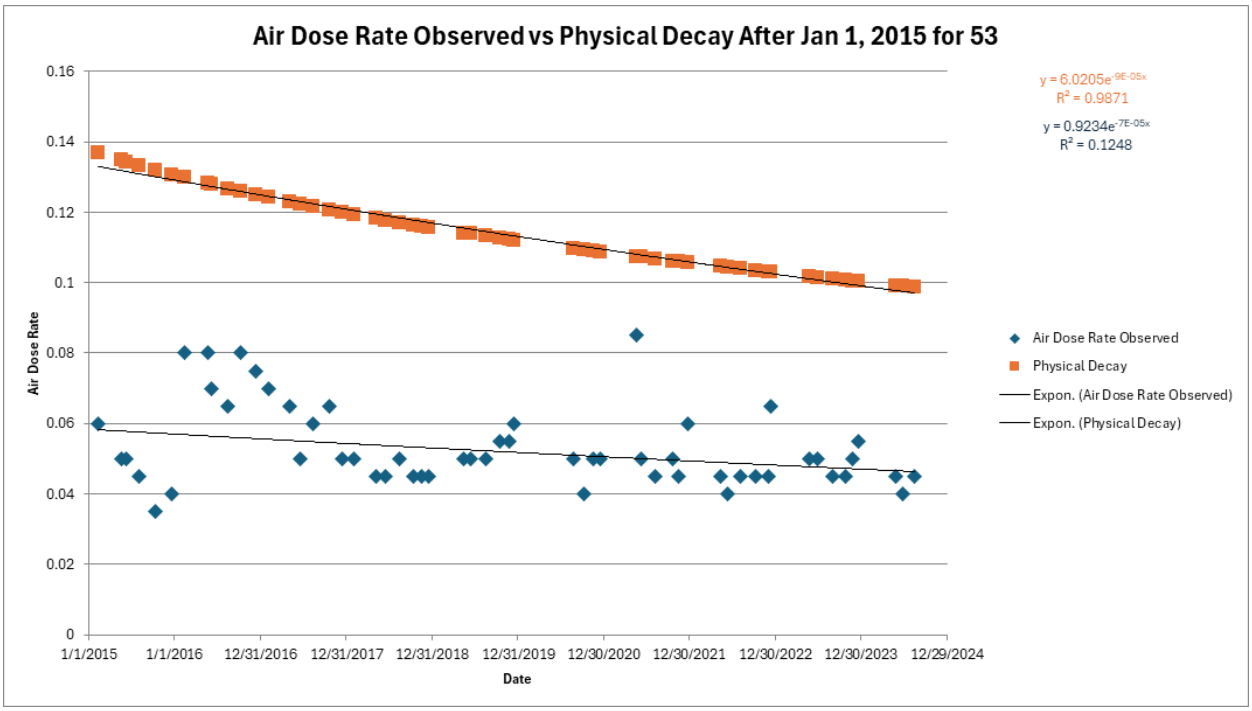

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 48
y = 8.5958e-9E-05x
R² = 0.9871
y = 6.3321e-1E-04x
R² = 0.5403
Air Dose Rate
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

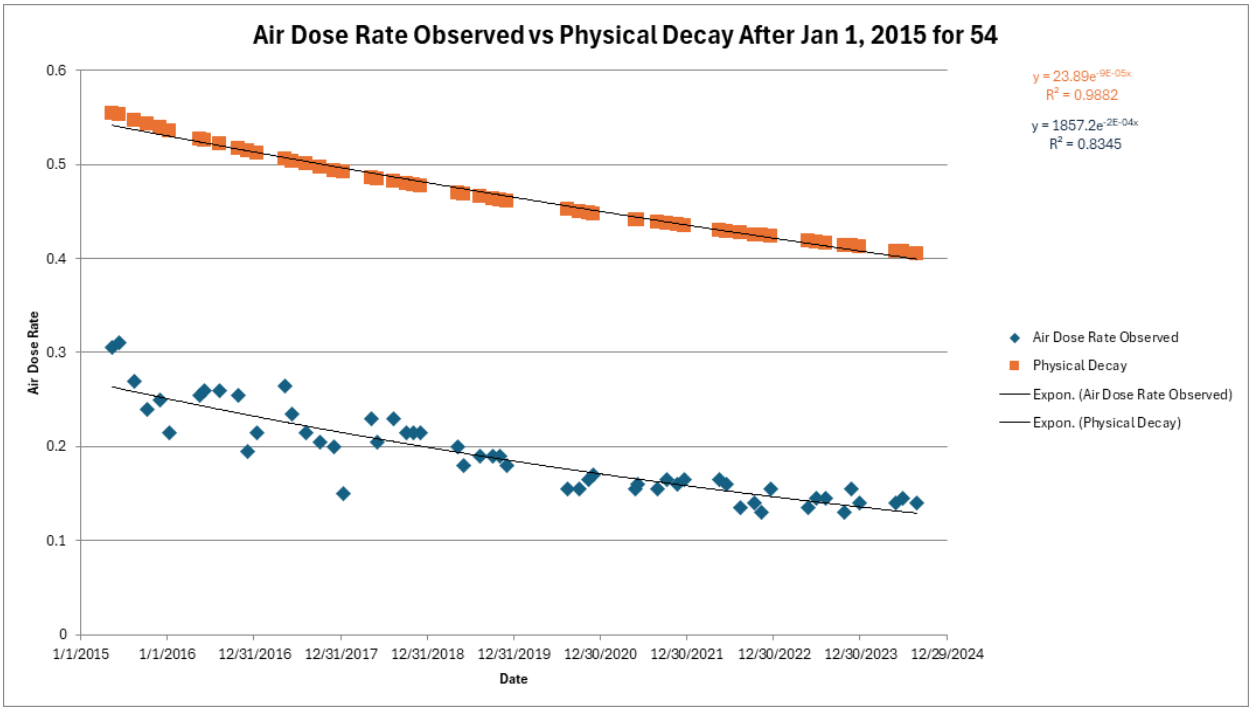

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 49
y = 7.9147e-9E-05x
R² = 0.9871
y = 448.06e-2E-04x
R² = 0.8178
Air Dose Rate
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

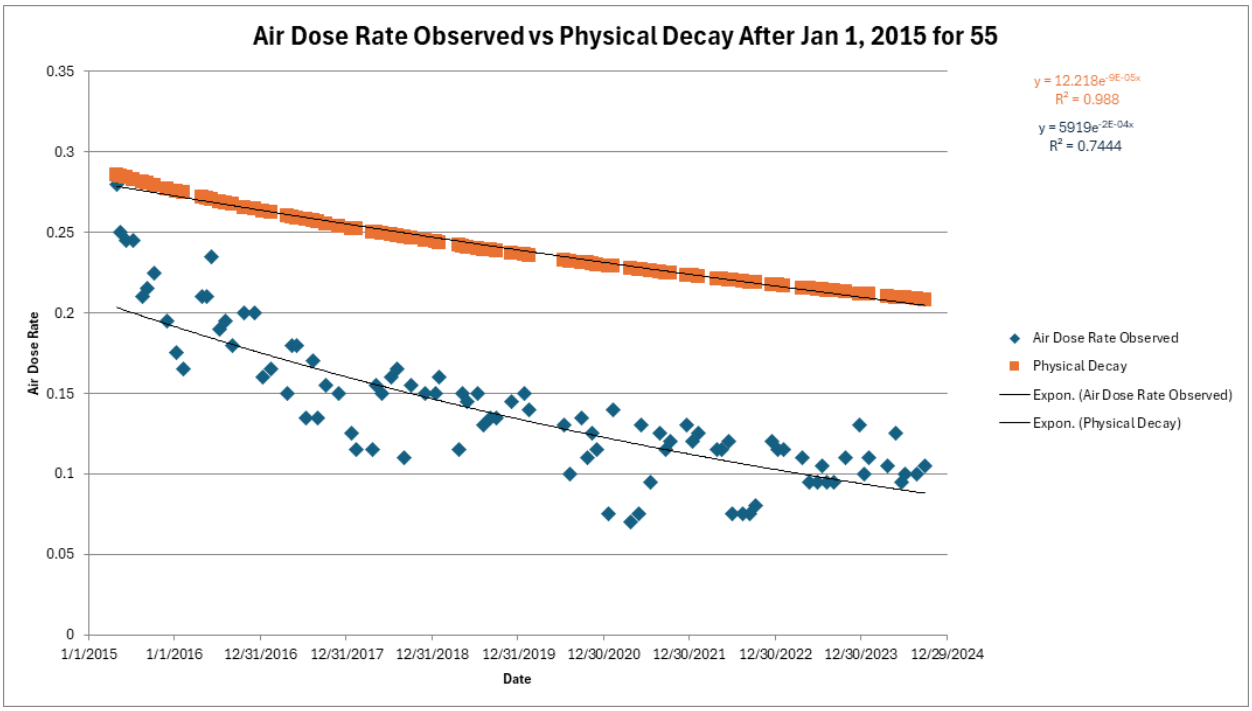

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 50
y = 4.985e-9E-05x
R² = 0.9871
y = 10.575e-1E-04x
R² = 0.5758
Air Dose Rate
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

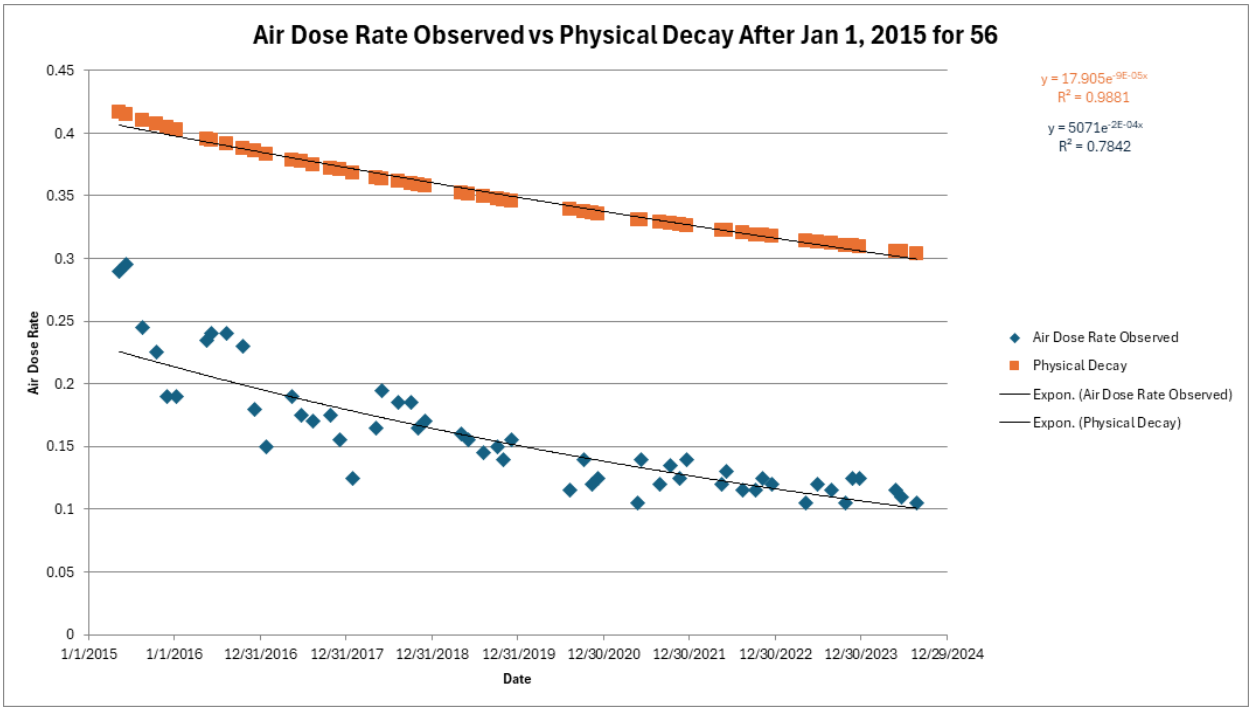

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 51
y = 7.2314e-9E-05x
R² = 0.9871
y = 141.07e-2E-04x
R² = 0.7674
Air Dose Rate
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

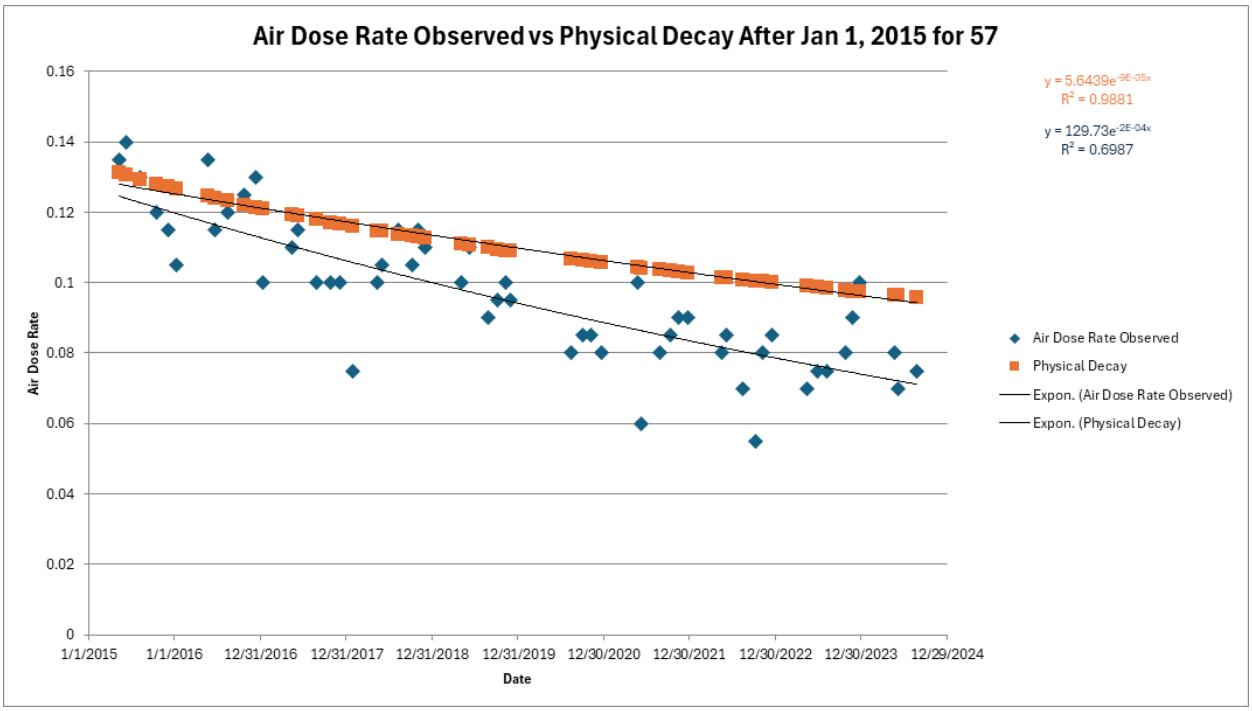

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 52
y = 6.883e-9E-05x
R² = 0.9871
y = 26.86e-1E-04x
R² = 0.4715
Air Dose Rate
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

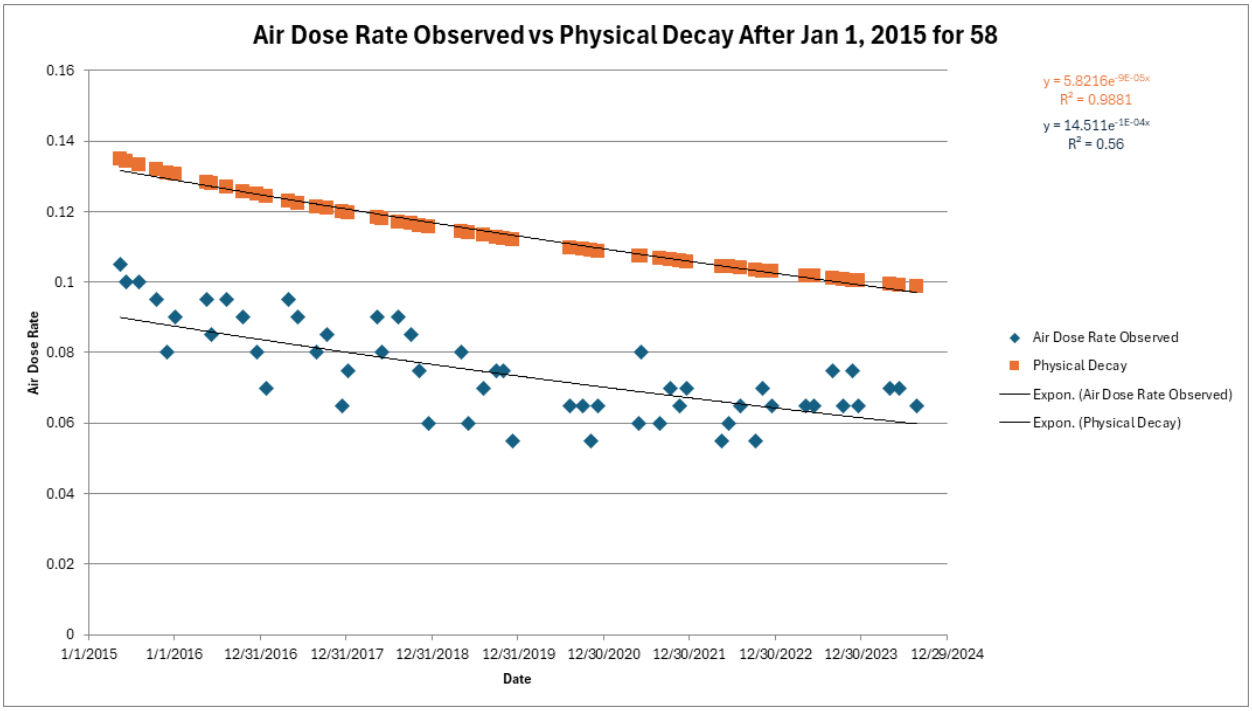

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 53
y = 6.0205e-9E-05x
R² = 0.9871
y = 0.9234e-7E-05x
R² = 0.1248
Air Dose Rate
Date
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

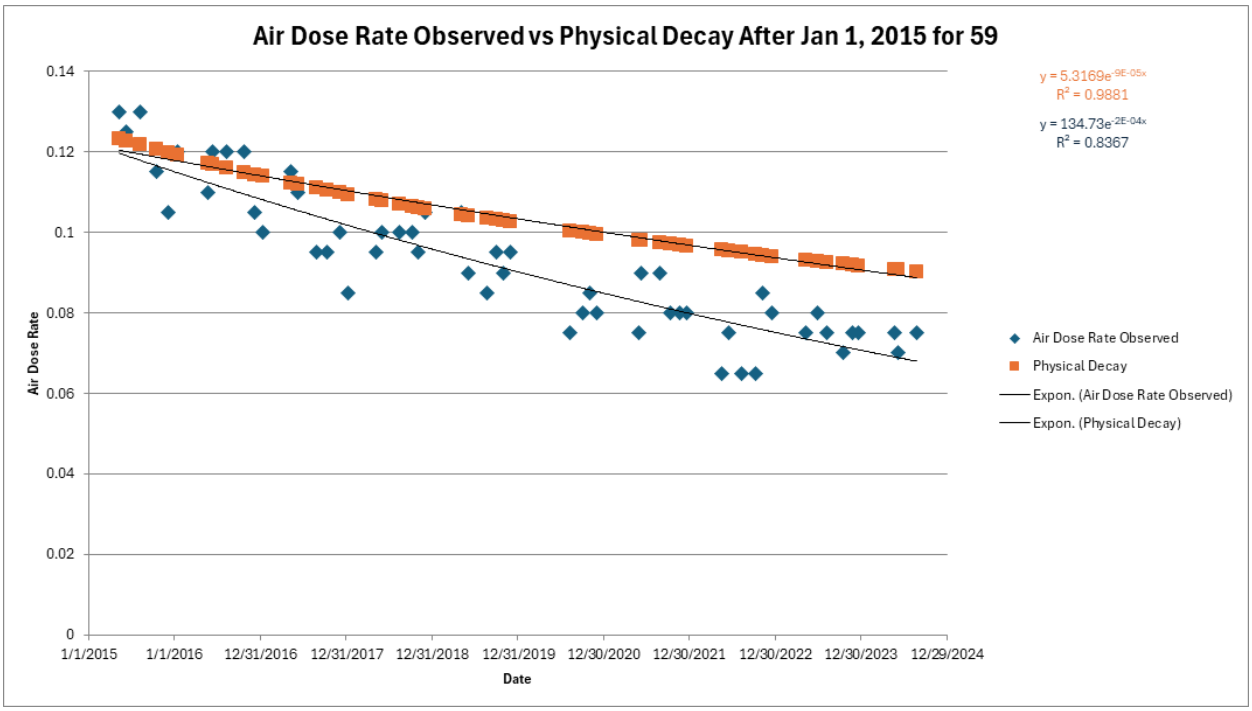

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 54
y = 23.89e-9E-05x
R² = 0.9882
y = 1857.2e-2E-04x
R² = 0.8345
Air Dose Rate
Date
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

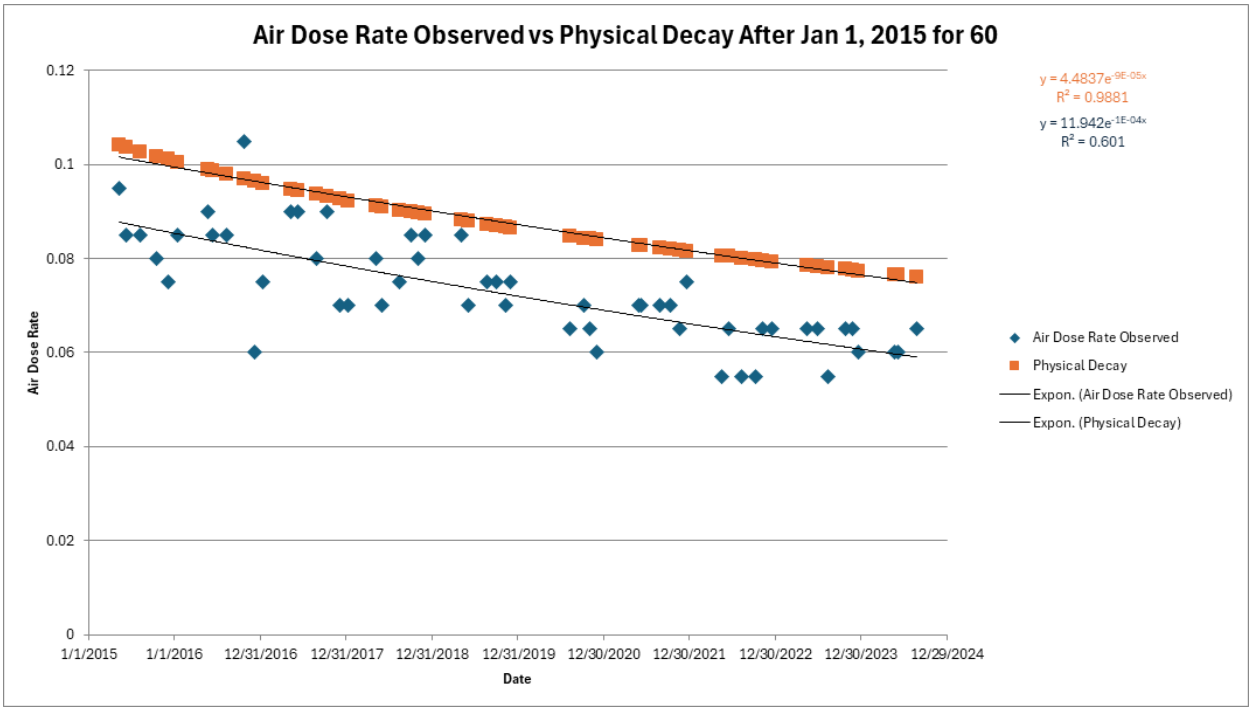

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 55
y = 12.218e-9E-05x
R² = 0.988
y = 5919e-2E-04x
R² = 0.7444
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

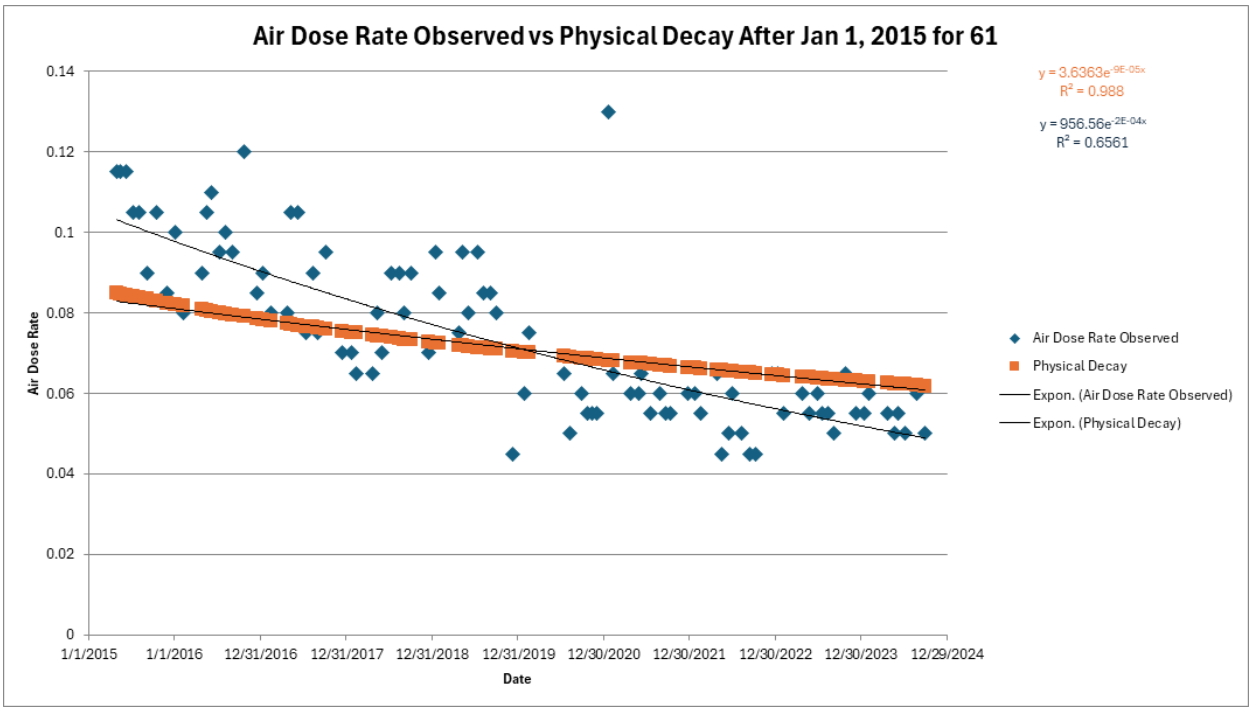

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 56
y = 17.905e-9E-05x
R² = 0.9881
y = 5071e-2E-04x
R² = 0.7842
Air Dose Rate
Date
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

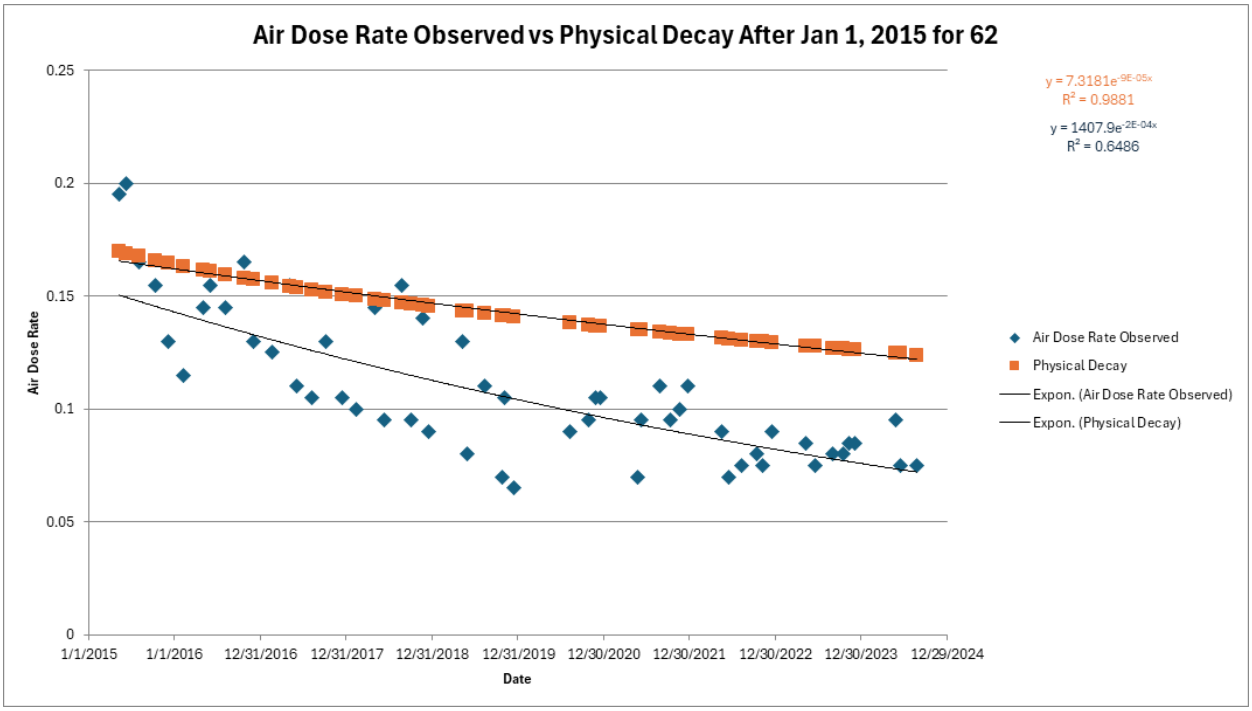

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 57
y = 5.6439e-9E-05x
R² = 0.9881
y = 129.73e-2E-04x
R² = 0.6987
Air Dose Rate
Date
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

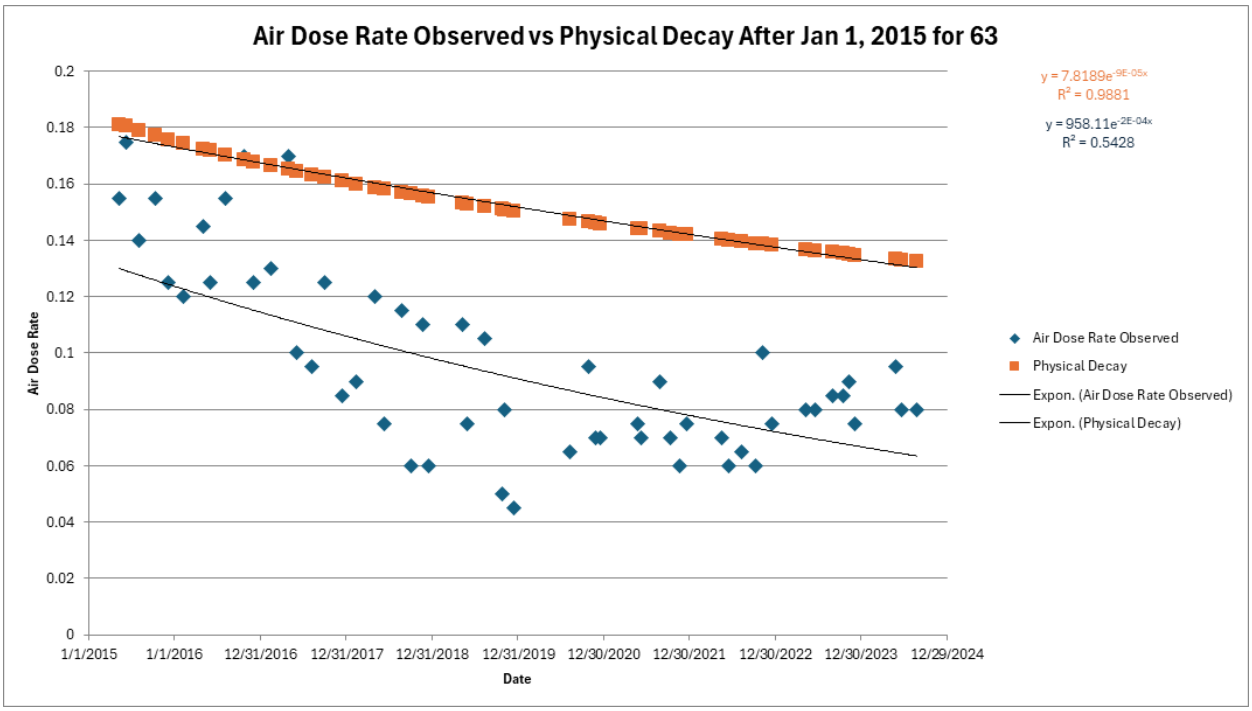

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 58
y = 5.8216e-9E-05x
R² = 0.9881
y = 14.511e-1E-04x
R² = 0.56
Air Dose Rate
Date
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

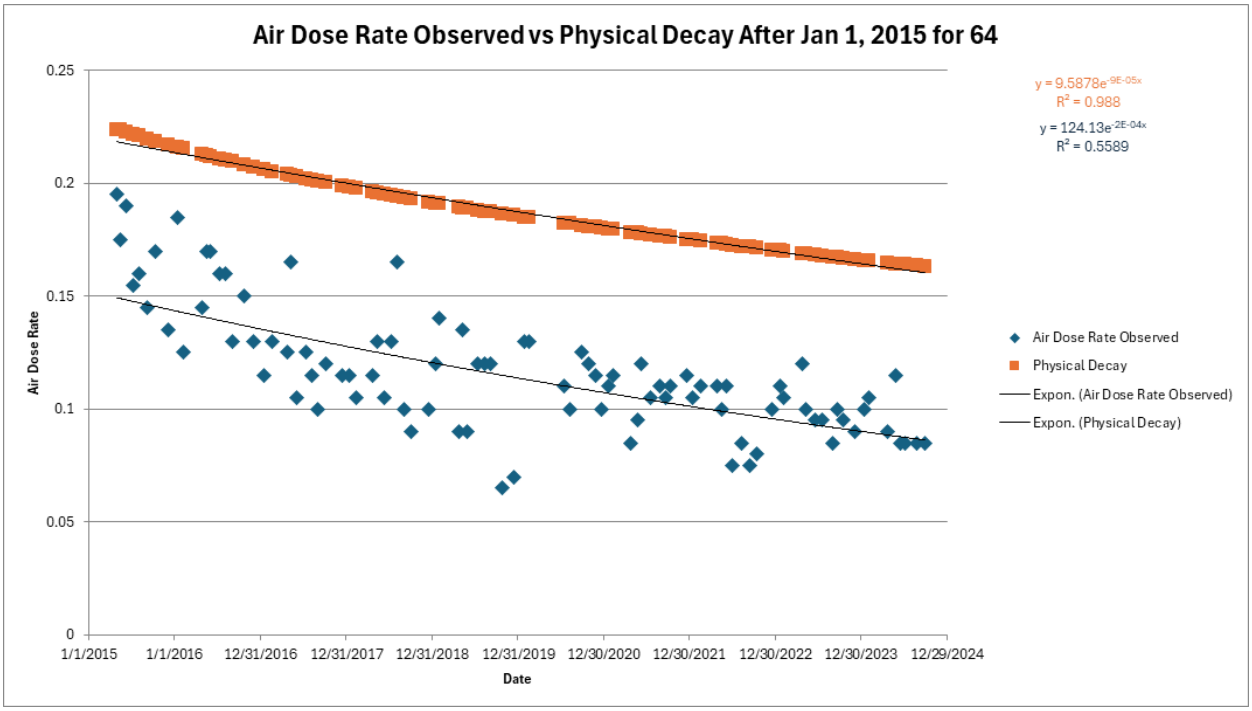

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 59
y = 5.3169e-9E-05x
R² = 0.9881
y = 134.73e-2E-04x
R² = 0.8367
Air Dose Rate
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

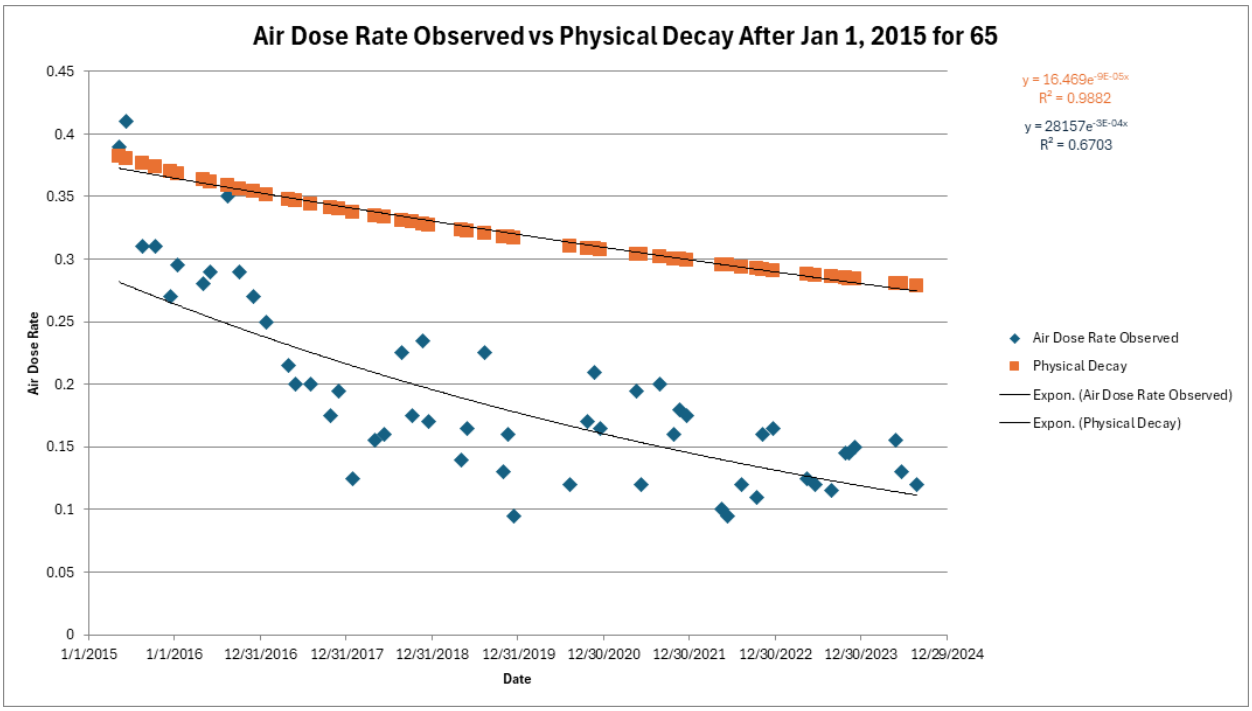

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 60
y = 4.4837e-9E-05x
R² = 0.9881
y = 11.942e-1E-04x
R² = 0.601
Air Dose Rate
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

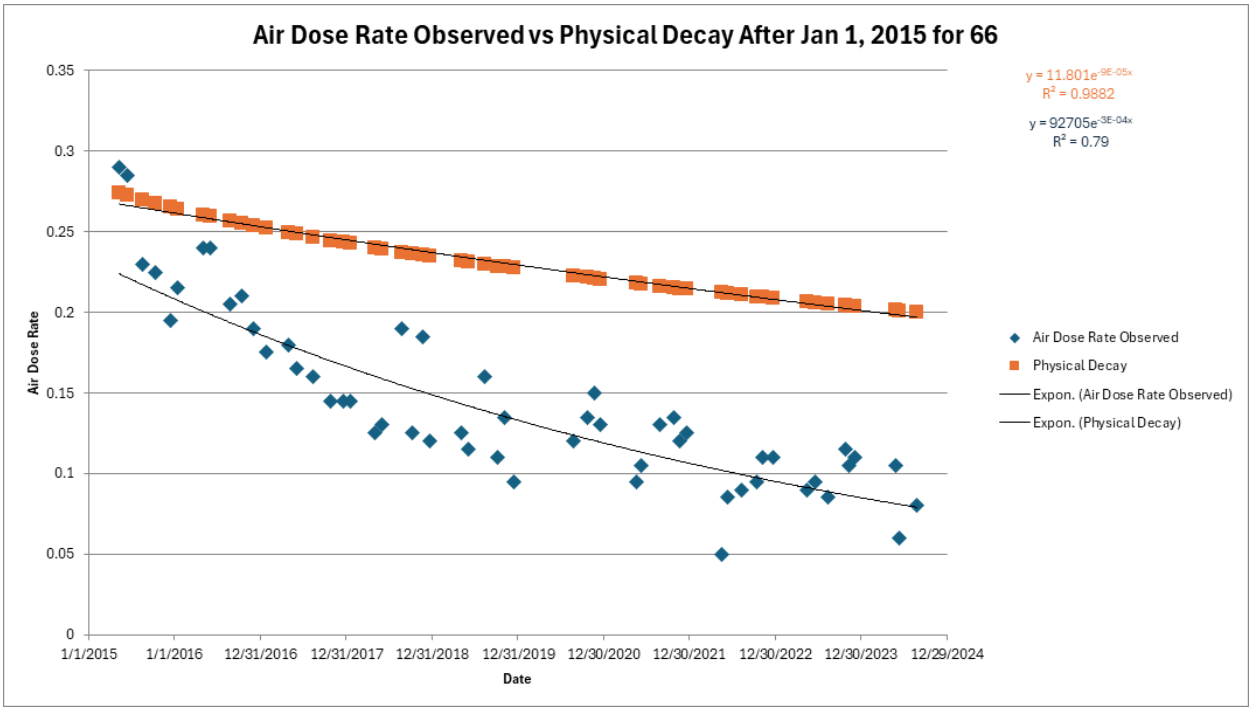

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 61
y = 3.6363e-9E-05x
R² = 0.988
y = 956.56e-2E-04x
R² = 0.6561
Air Dose Rate
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

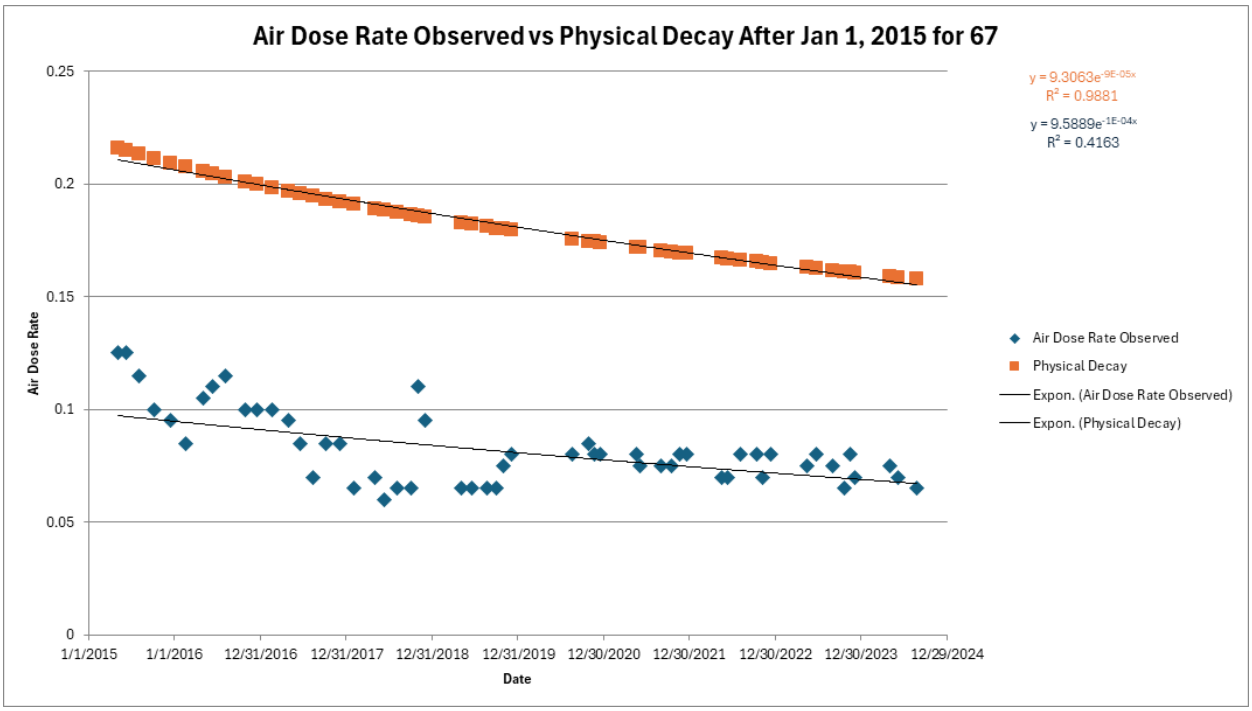

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 62
y = 7.3181e-9E-05x
R² = 0.9881
y = 1407.9e-2E-04x
R² = 0.6486
Air Dose Rate
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

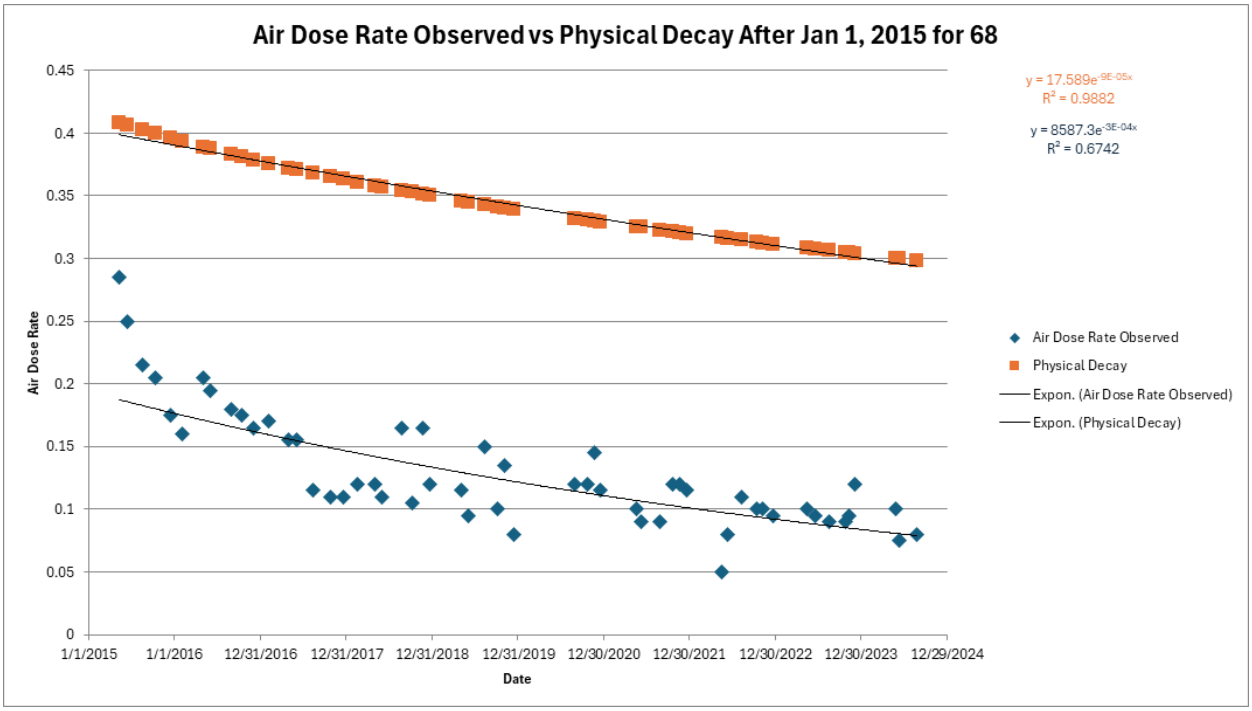

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 63
y = 7.8189e-9E-05x
R² = 0.9881
y = 958.11e-2E-04x
R² = 0.5428
Air Dose Rate
Date
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

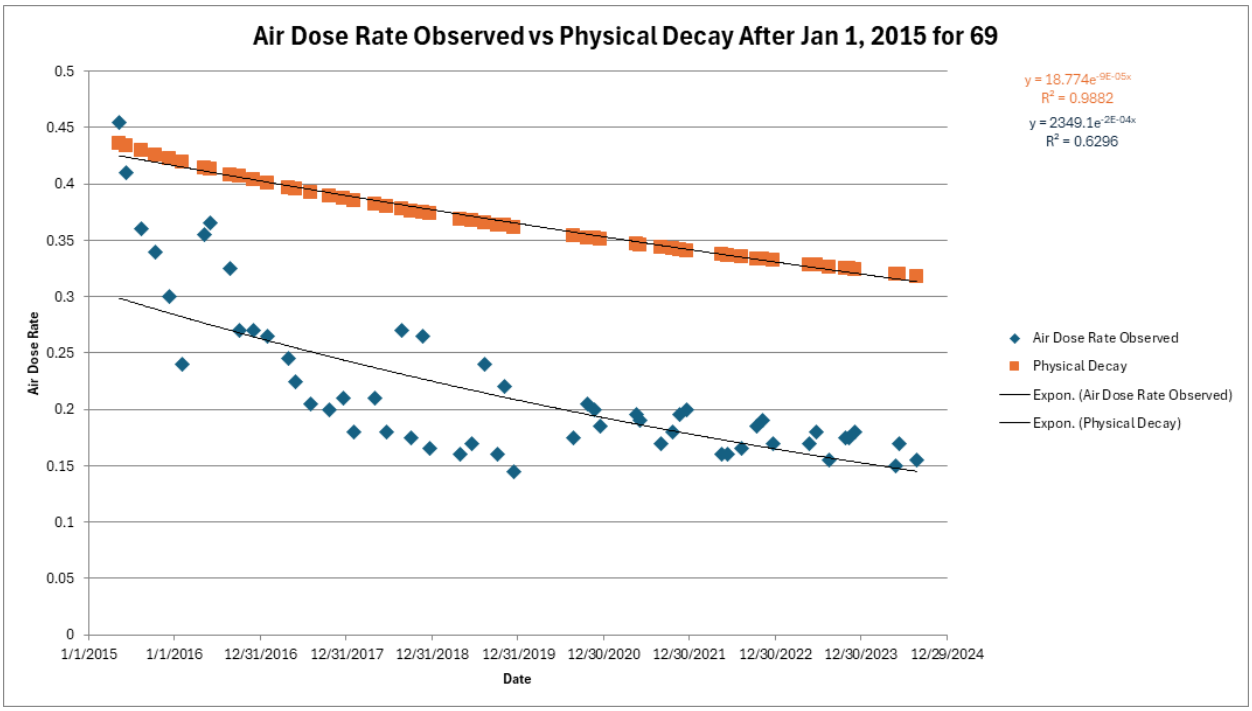

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 64
y = 9.5878e-9E-05x
R² = 0.988
y = 124.13e-2E-04x
R² = 0.5589
Air Dose Rate
Date
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

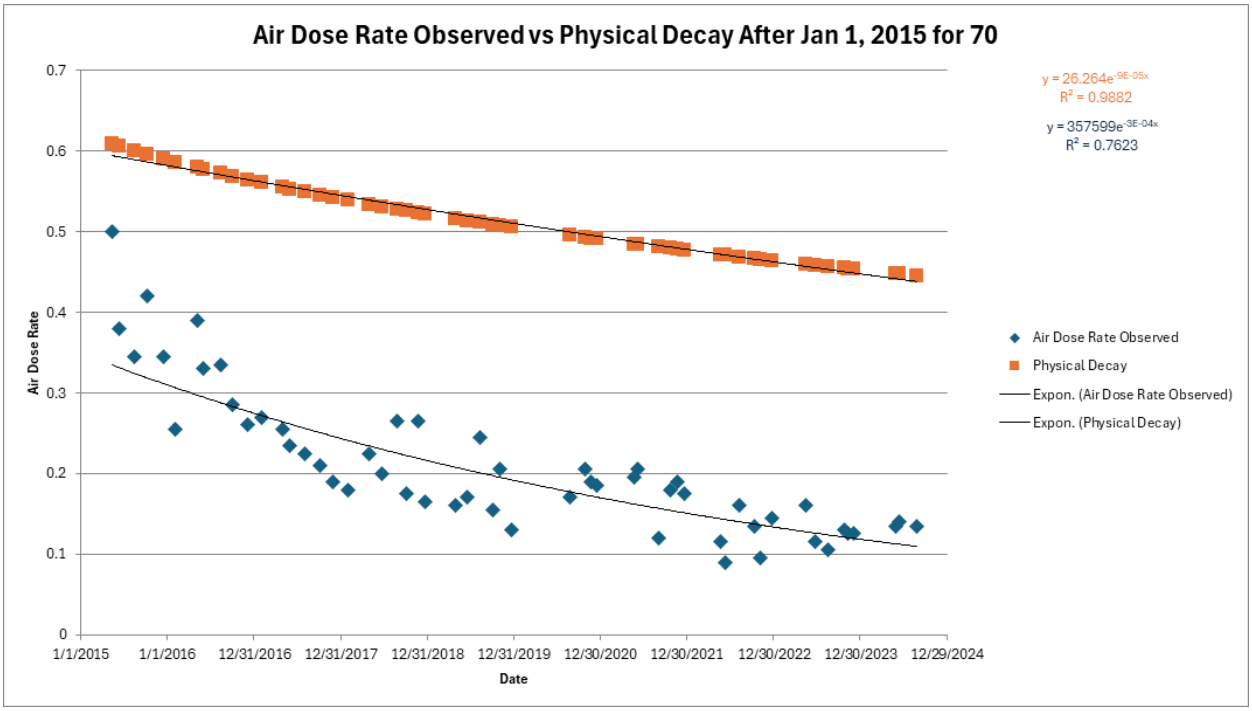

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 65
y = 16.469e-9E-05x
R² = 0.9882
y = 28157e-3E-04x
R² = 0.6703
Air Dose Rate
Date
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

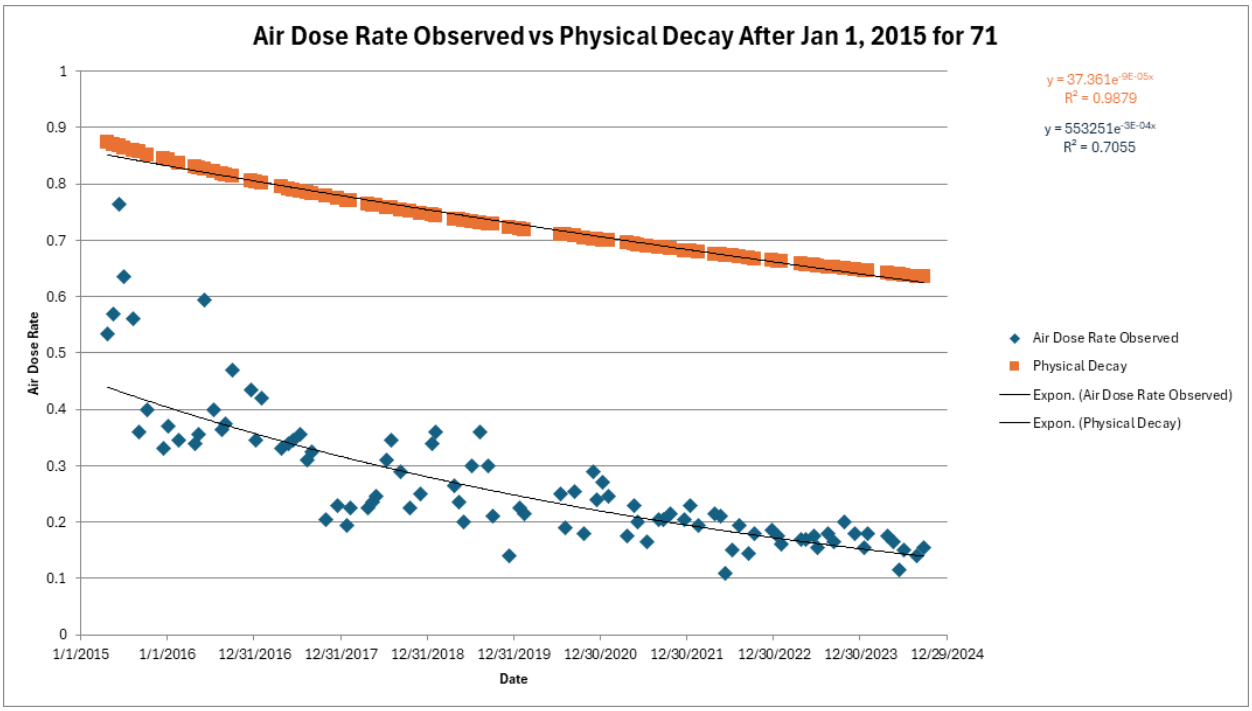

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 66
y = 11.801e-9E-05x
R² = 0.9882
y = 92705e-3E-04x
R² = 0.79
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

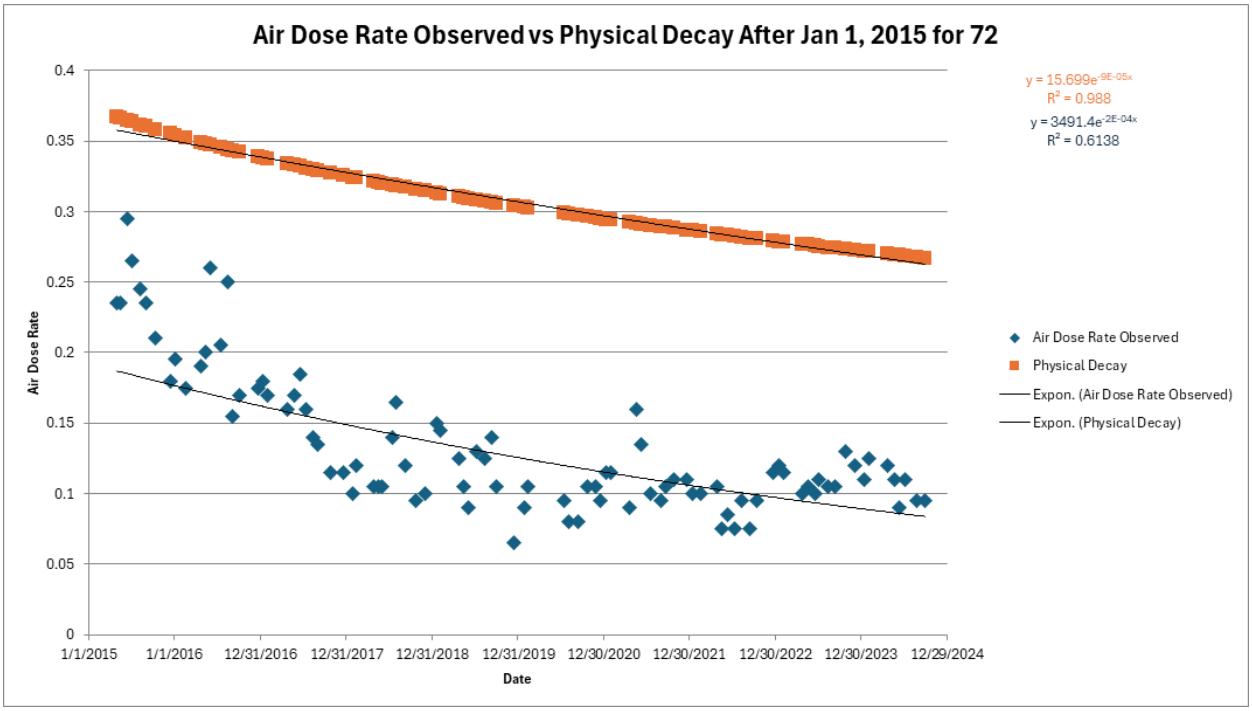

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 67
y = 9.3063e-9E-05x
R² = 0.9881
y = 9.5889e-1E-04x
R² = 0.4163
Air Dose Rate
Date
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

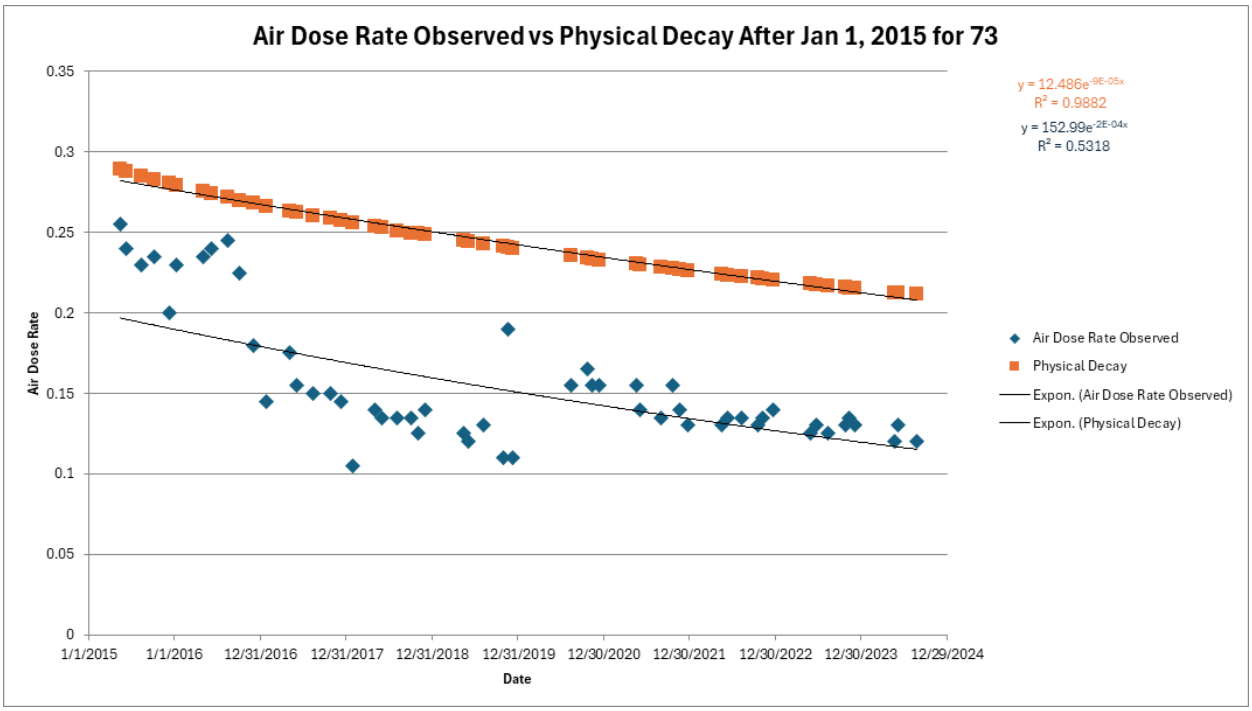

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 68
y = 17.589e-9E-05x
R² = 0.9882
y = 8587.3e-3E-04x
R² = 0.6742
Air Dose Rate
Date
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

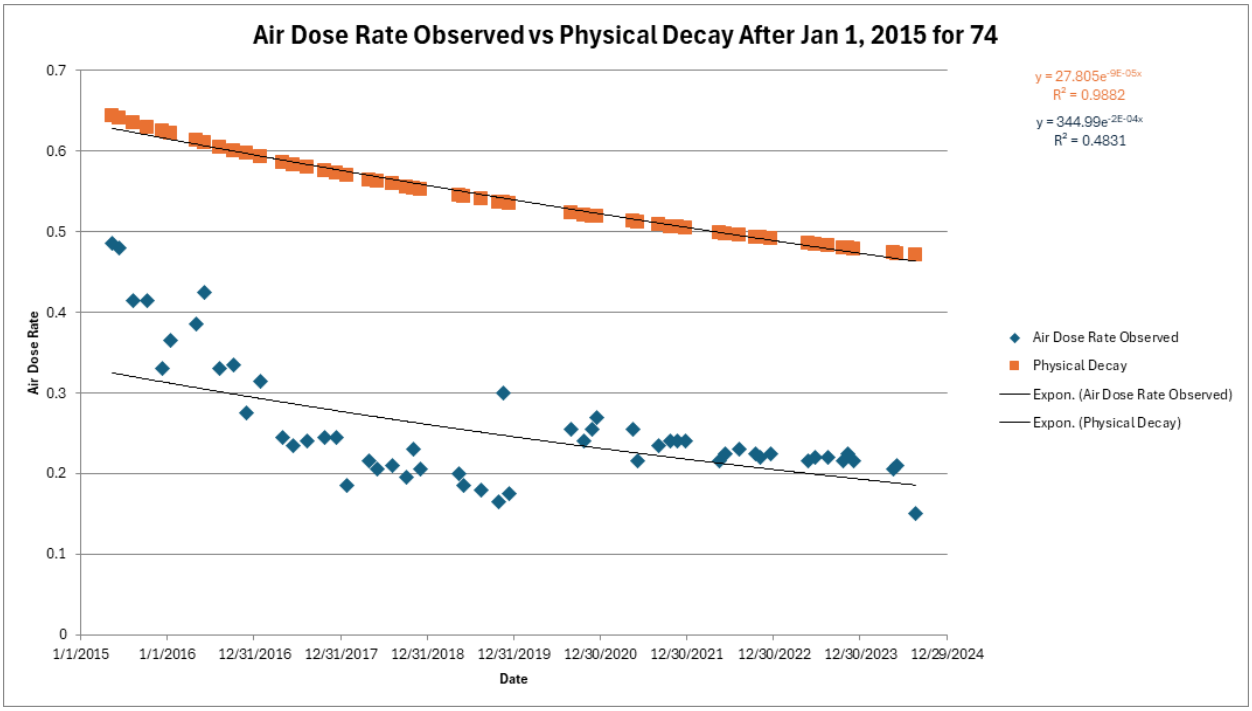

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 69
y = 18.774e-9E-05x
R² = 0.9882
y = 2349.1e-2E-04x
R² = 0.6296
Air Dose Rate
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

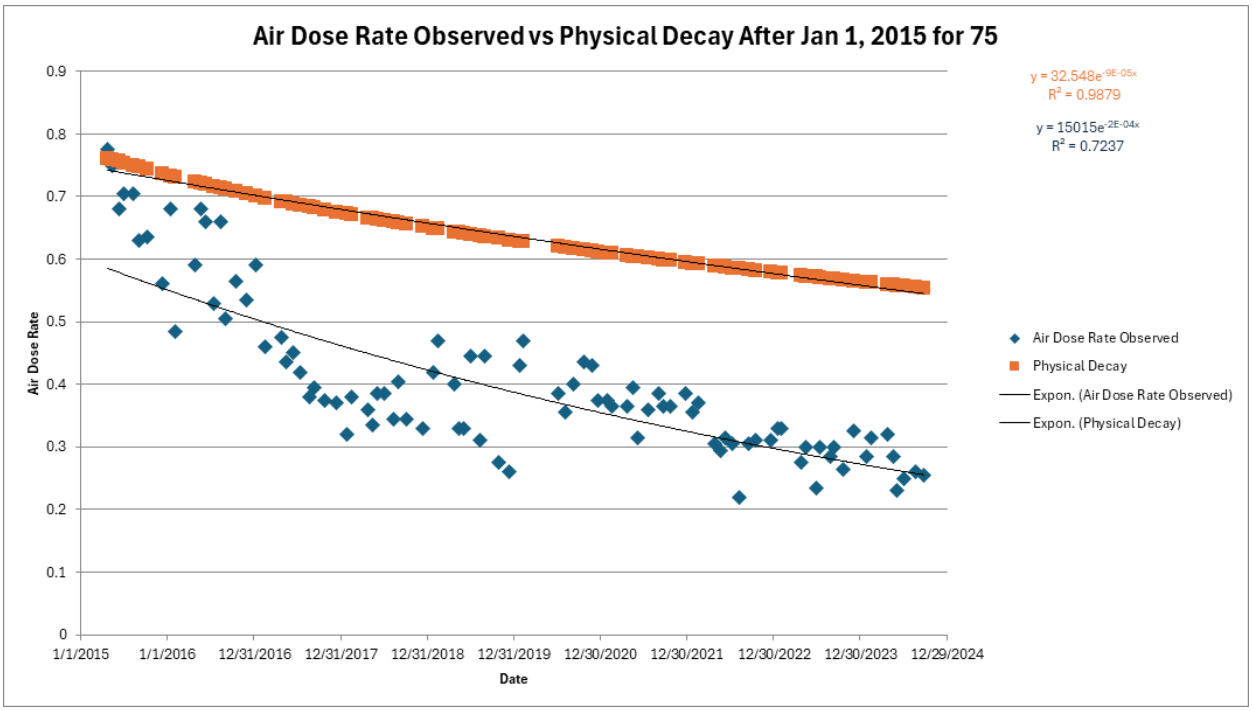

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 70
y = 26.264e-9E-05x
R² = 0.9882
y = 357599e-3E-04x
R² = 0.7623
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

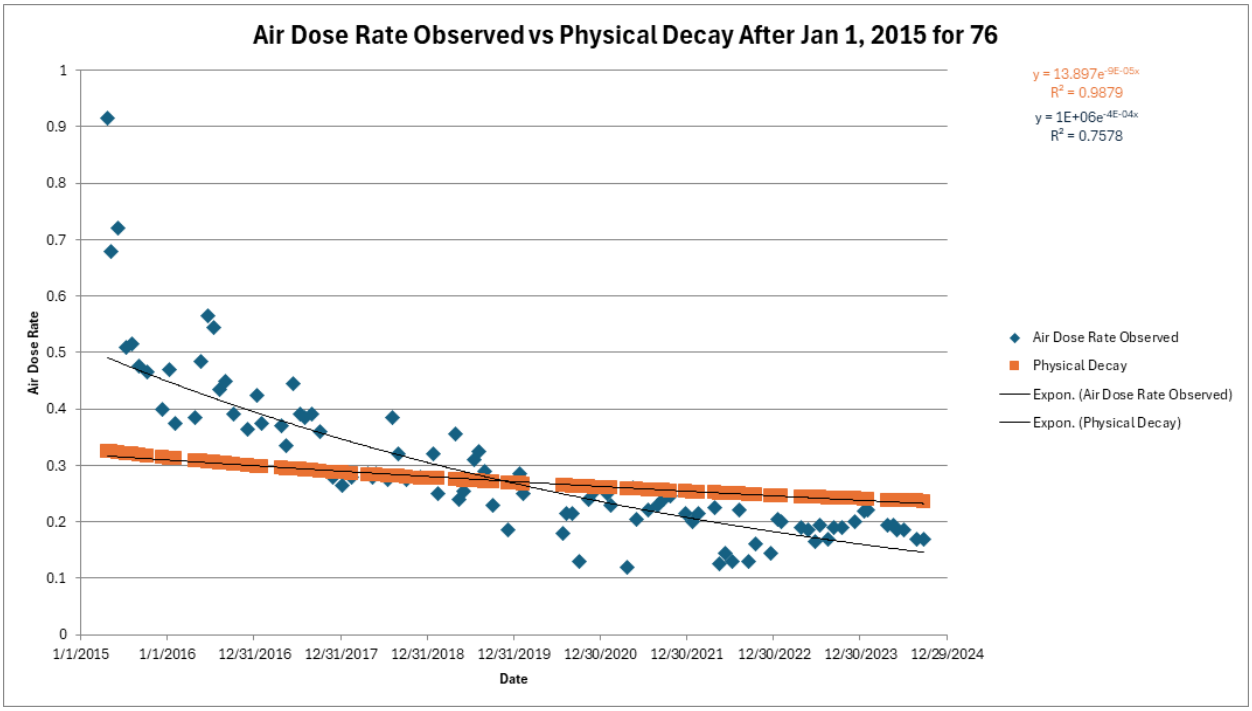

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 71
y = 37.361e-9E-05x
R² = 0.9879
y = 553251e-3E-04x
R² = 0.7055
Air Dose Rate
Date
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

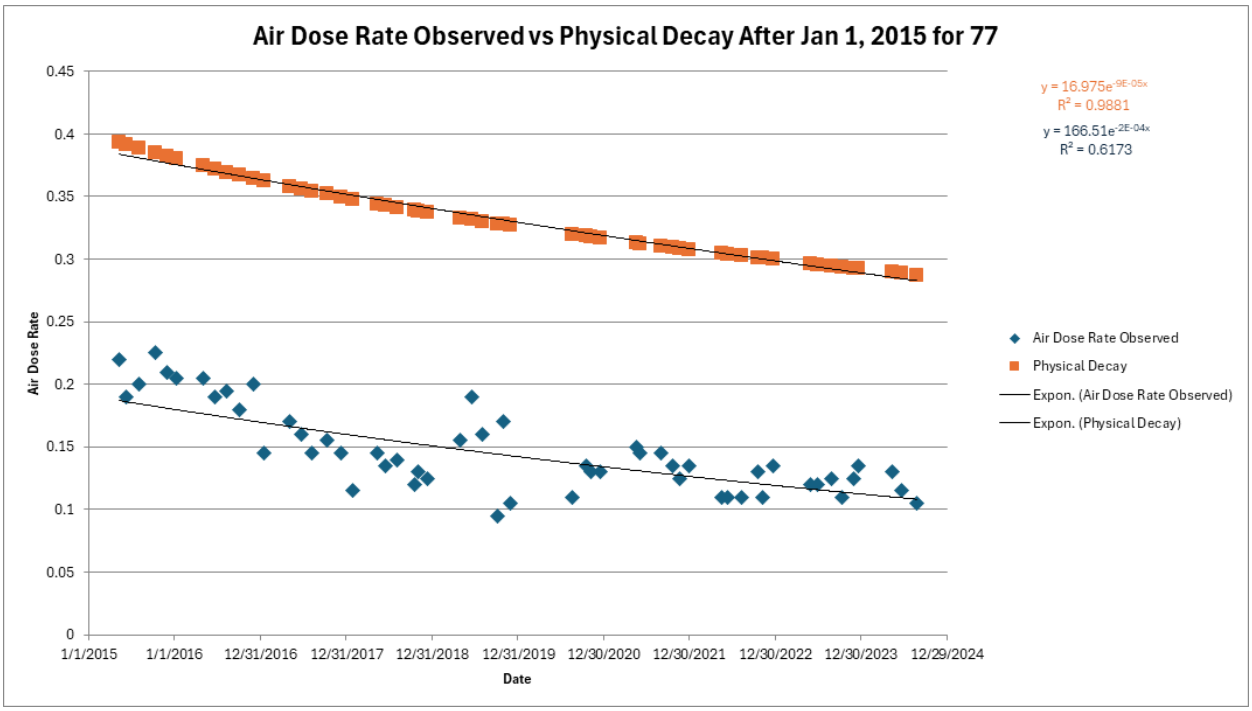

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 72
y = 15.699e-9E-05x
R² = 0.988
y = 3491.4e-2E-04x
R² = 0.6138
Air Dose Rate
Date
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

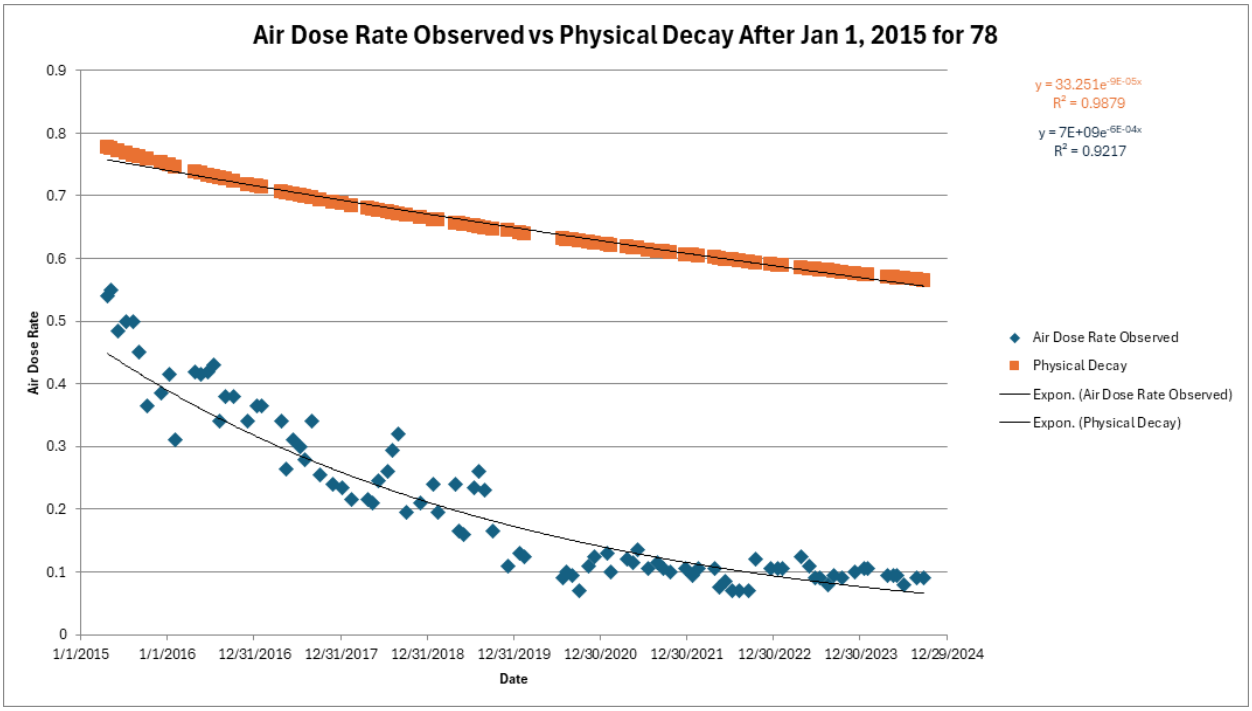

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 73
y = 12.486e-9E-05x
R² = 0.9882
y = 152.99e-2E-04x
R² = 0.5318
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

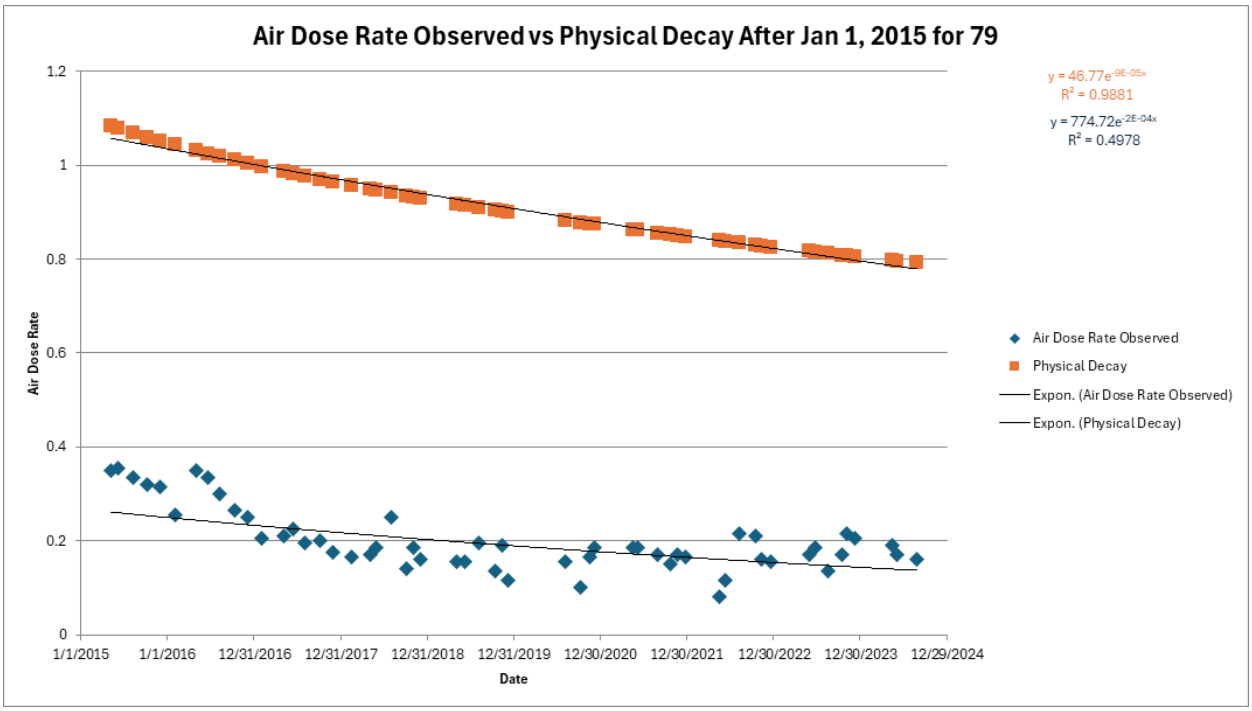

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 74
y = 27.805e-9E-05x
R² = 0.9882
y = 344.99e-2E-04x
R² = 0.4831
Air Dose Rate
Date
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

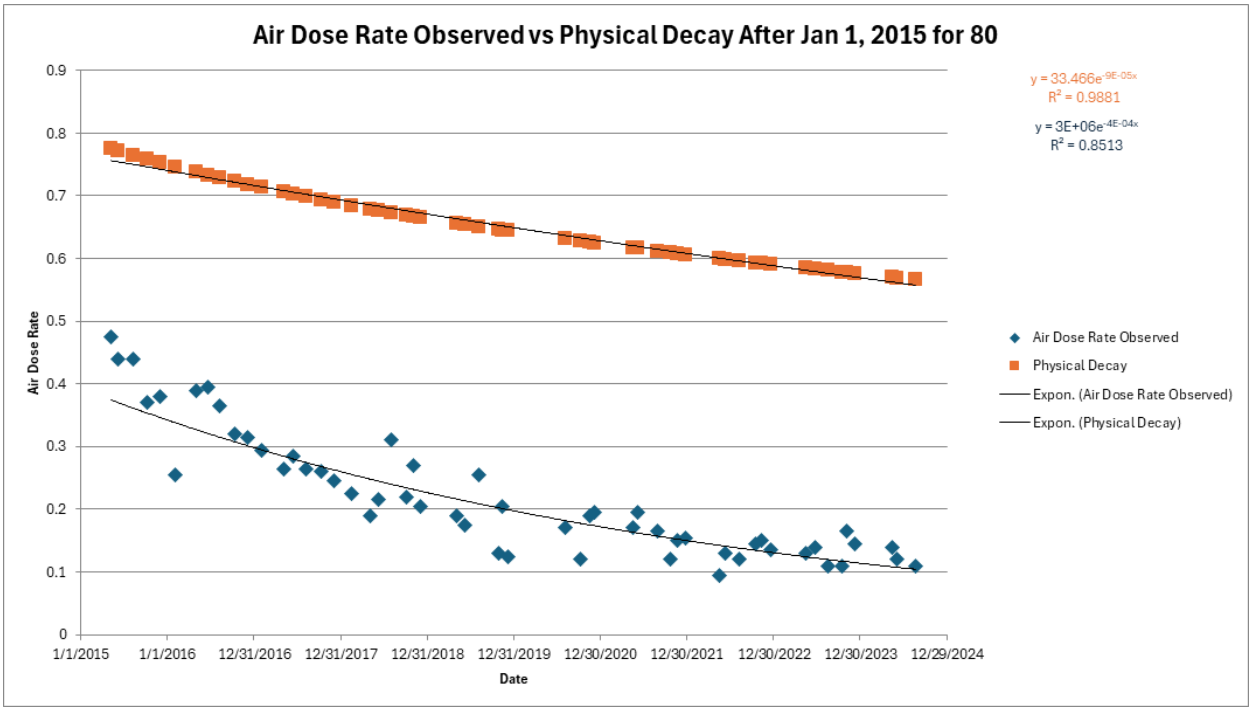

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 75
y = 32.548e-9E-05x
R² = 0.9879
y = 15015e-2E-04x
R² = 0.7237
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

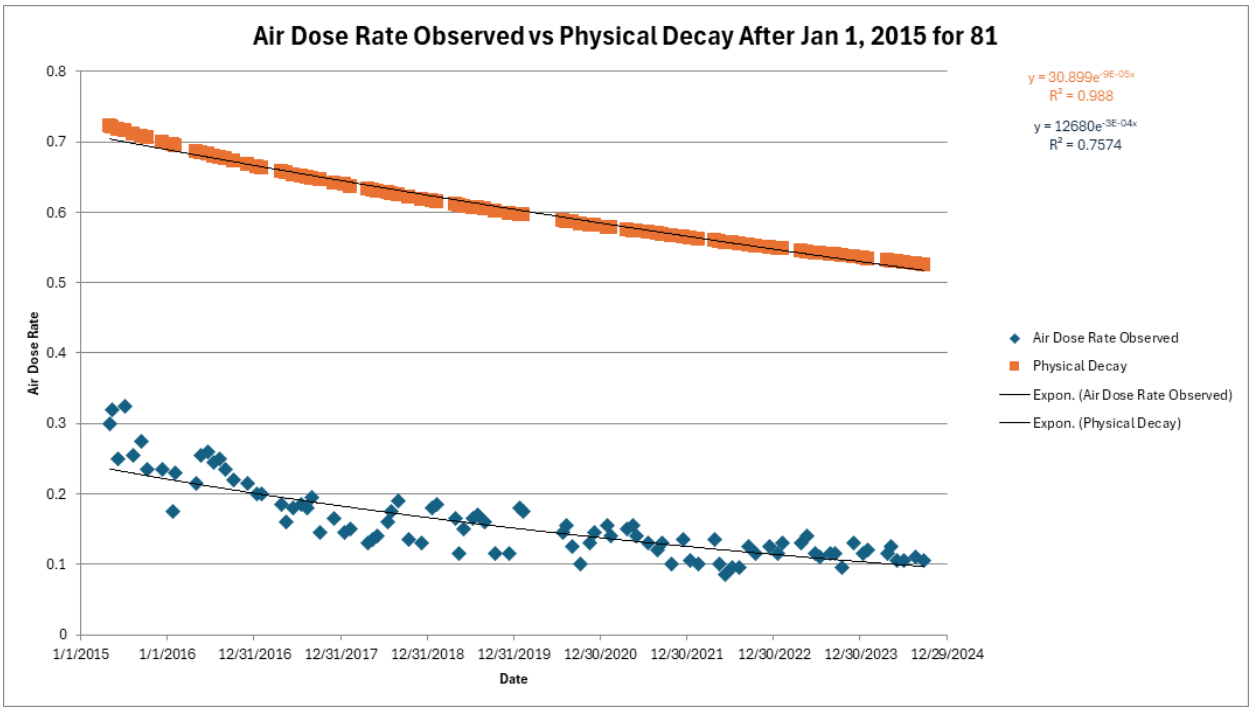

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 76
y = 13.897e-9E-05x
R² = 0.9879
y = 1E+06e-4E-04x
R² = 0.7578
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

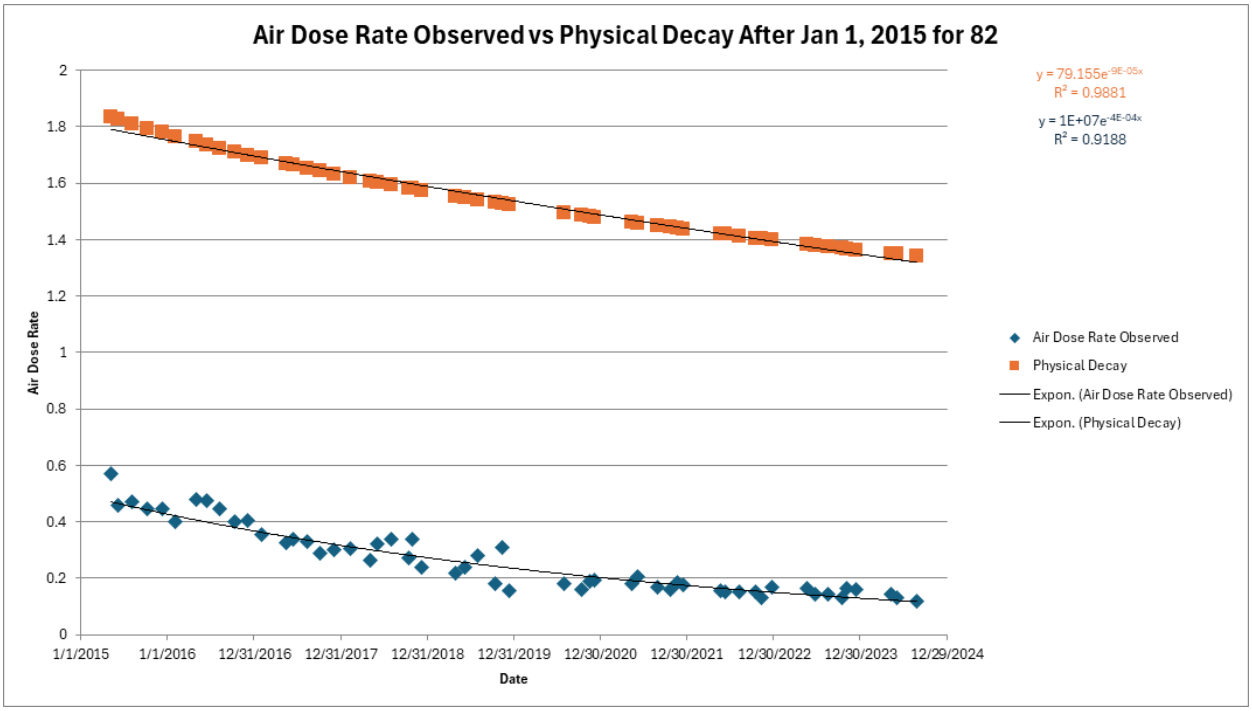

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 77
y = 16.975e-9E-05x
R² = 0.9881
y = 166.51e-2E-04x
R² = 0.6173
Air Dose Rate
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

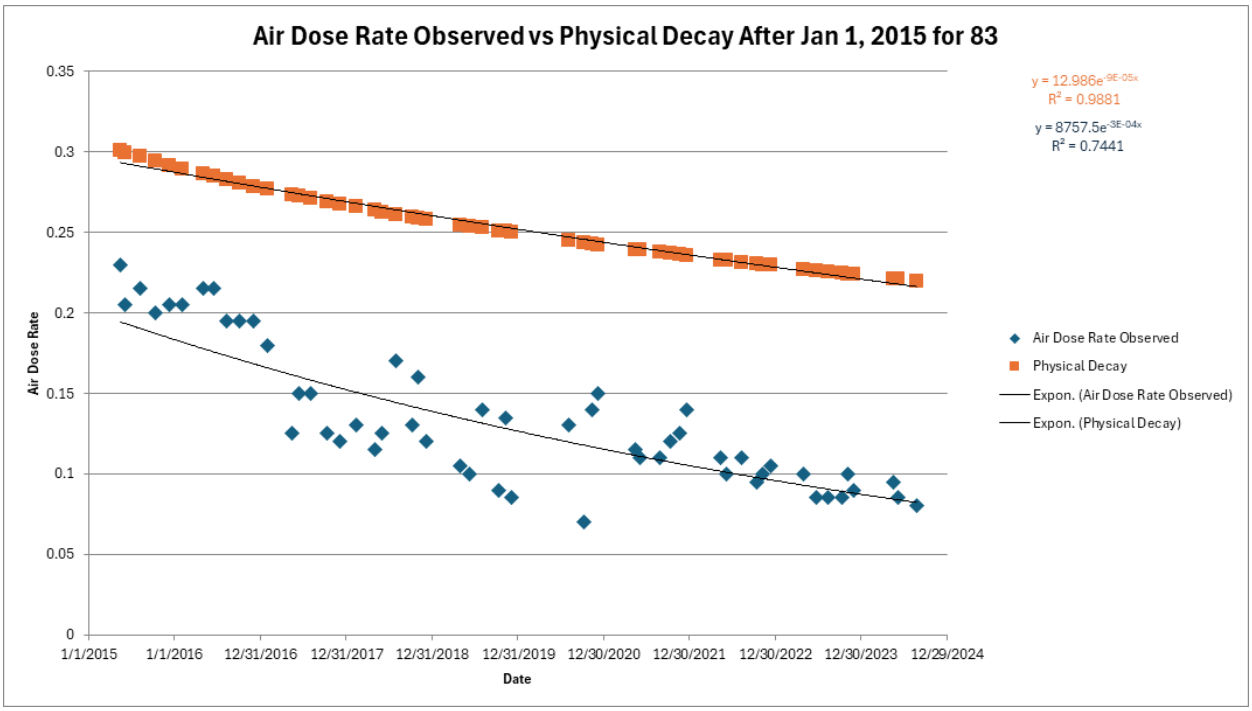

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 78
y = 33.251e-9E-05x
R² = 0.9879
y = 7E+09e-6E-04x
R² = 0.9217
Air Dose Rate
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

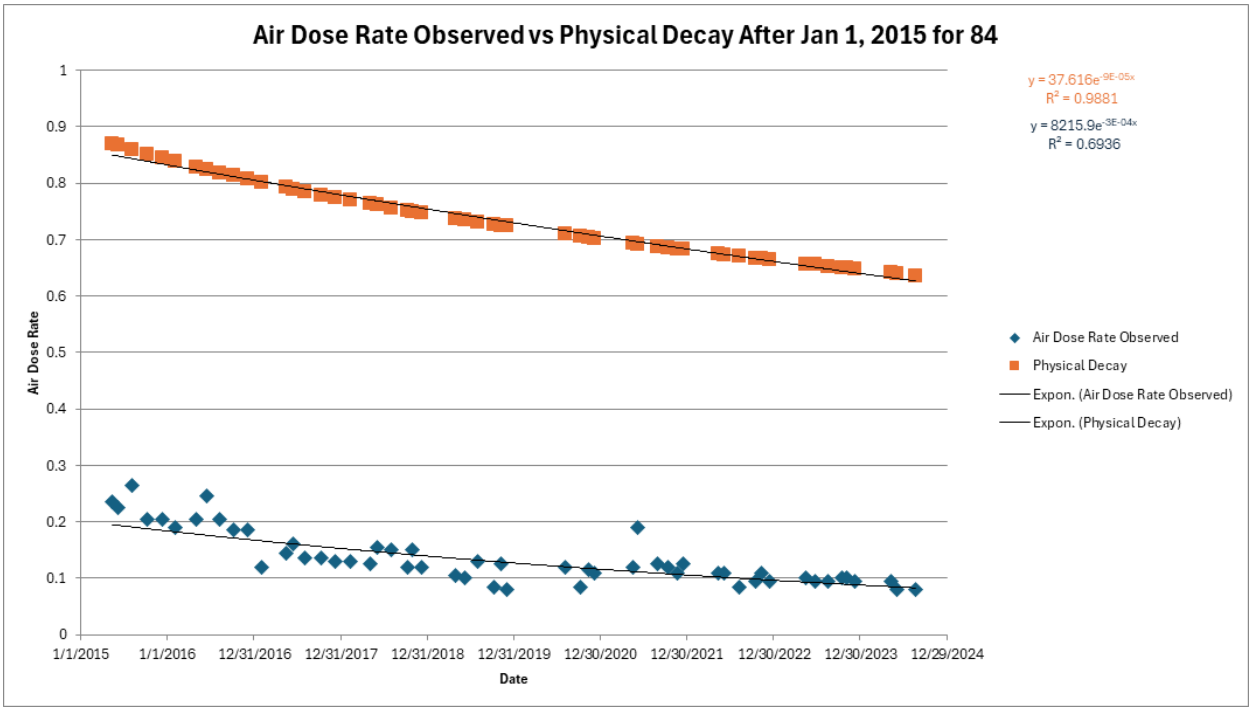

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 79
y = 46.77e-9E-05x
R² = 0.9881
y = 774.72e-2E-04x
R² = 0.4978
Air Dose Rate
Date
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

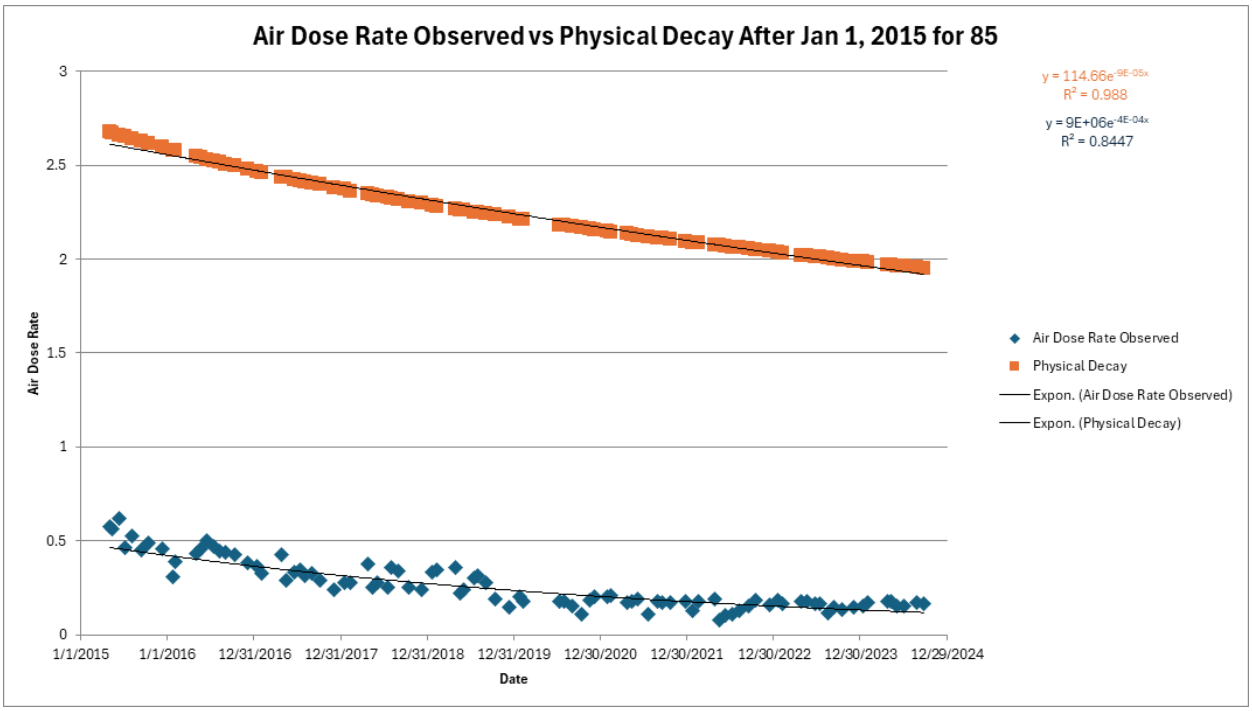

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 80
y = 33.466e-9E-05x
R² = 0.9881
y = 3E+06e-4E-04x
R² = 0.8513
Air Dose Rate
Date
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

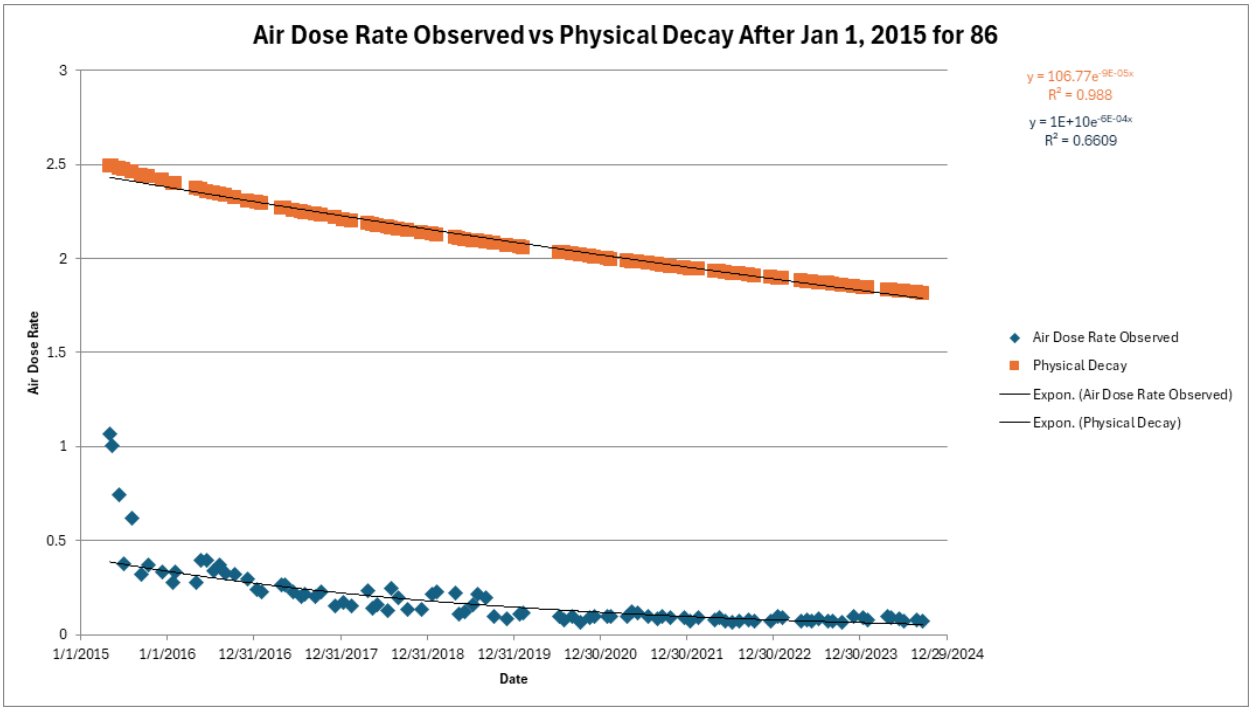

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 81
y = 30.899e-9E-05x
R² = 0.988
y = 12680e-3E-04x
R² = 0.7574
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

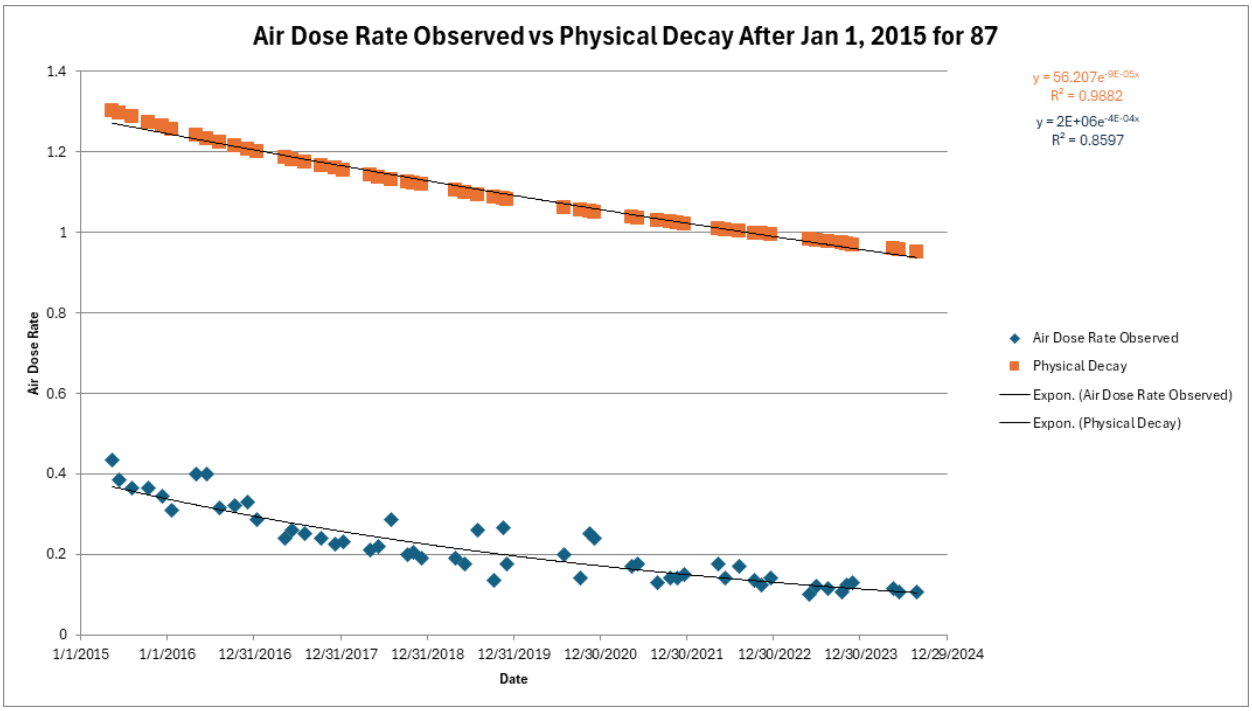

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 82
y = 79.155e-9E-05x
R² = 0.9881
y = 1E+07e-4E-04x
R² = 0.9188
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

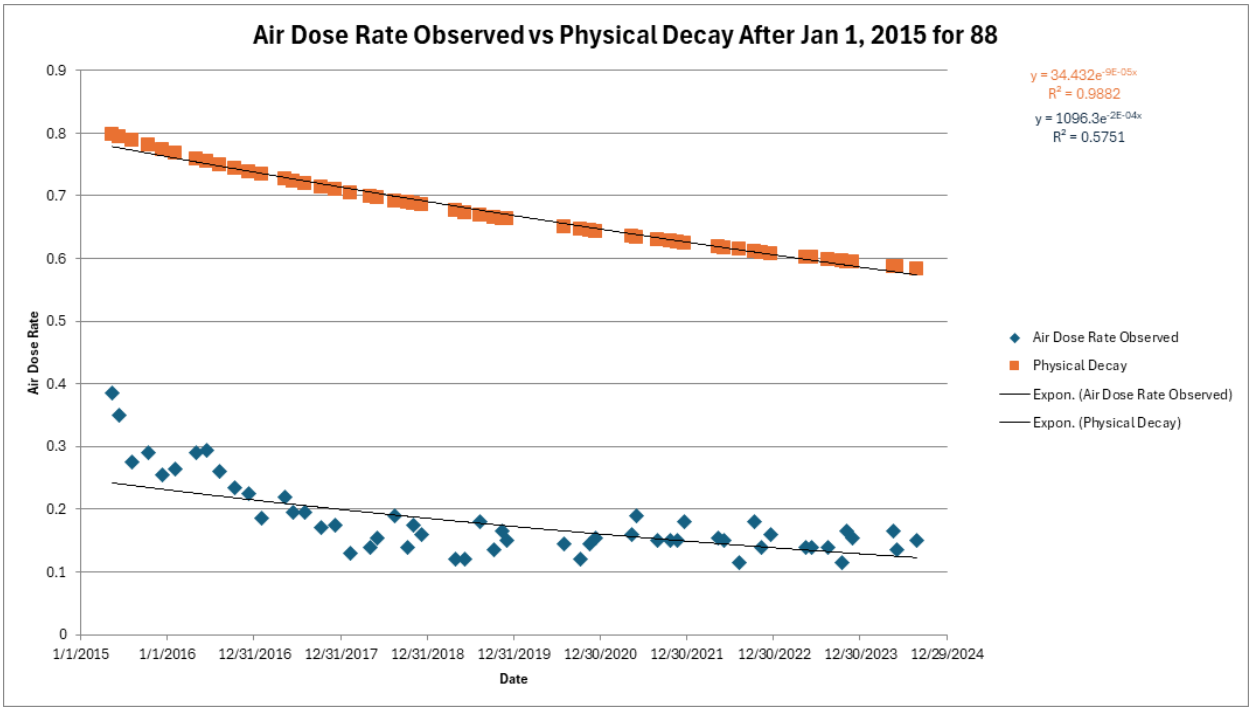

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 83
y = 12.986e-9E-05x
R² = 0.9881
y = 8757.5e-3E-04x
R² = 0.7441
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

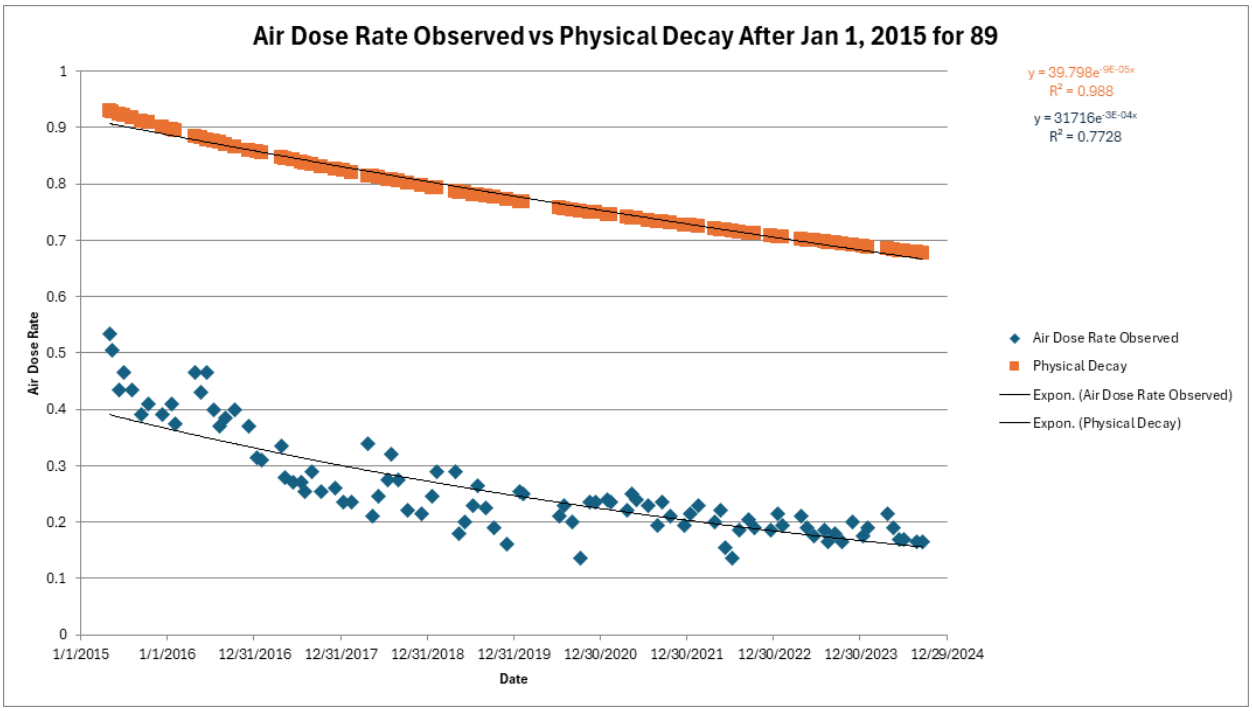

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 84
y = 37.616e-9E-05x
R² = 0.9881
y = 8215.9e-3E-04x
R² = 0.6936
Air Dose Rate
Date
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

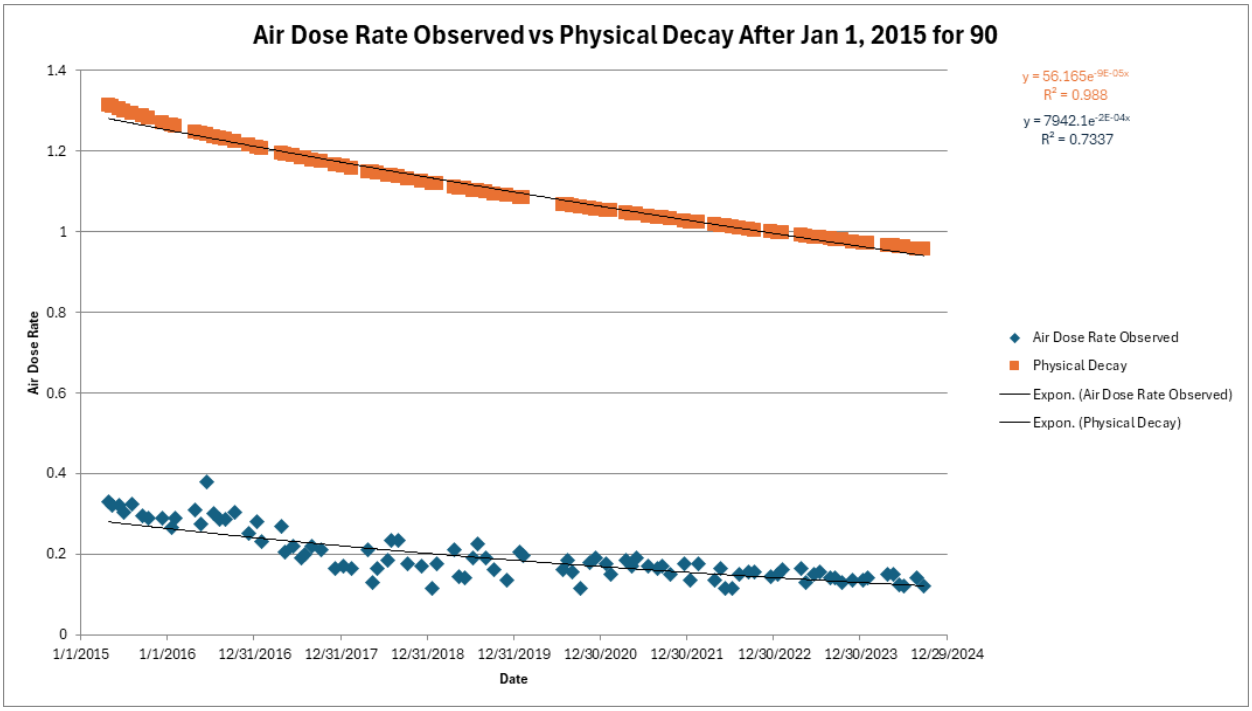

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 85
y = 114.66e-9E-05x
R² = 0.988
y = 9E+06e-4E-04x
R² = 0.8447
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
0
0.5
1
1.5
2
2.5
3
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

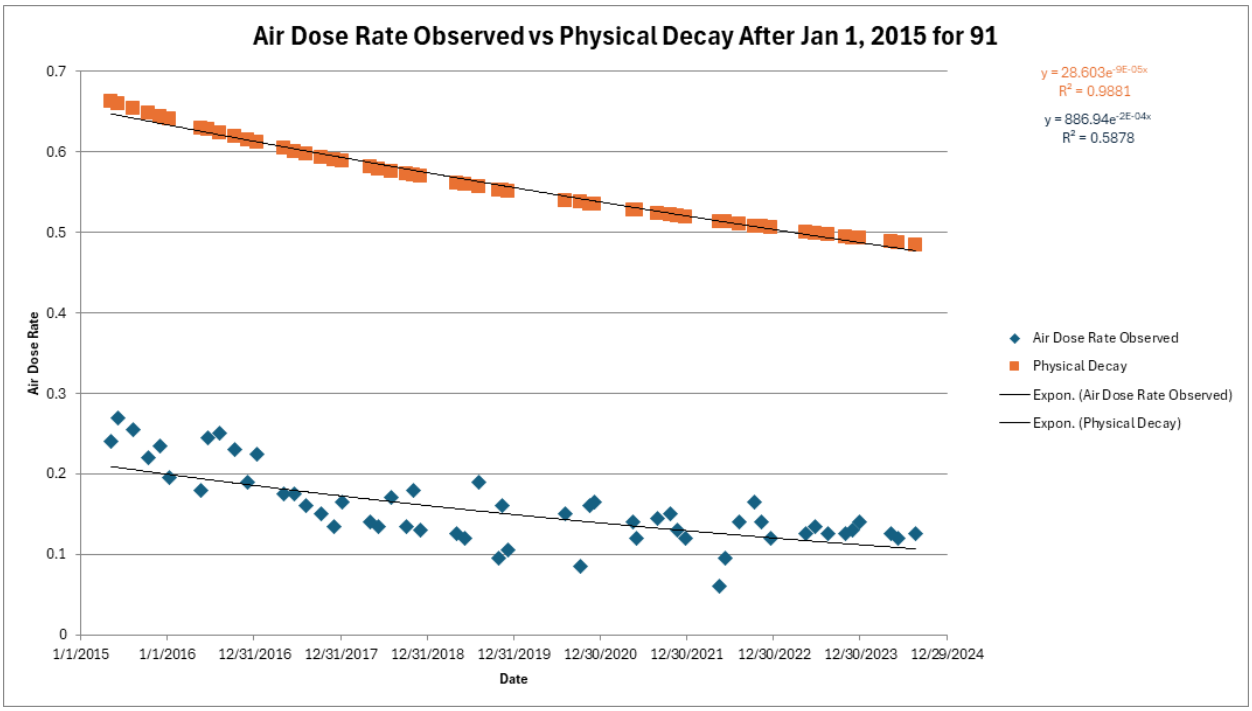

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 86
y = 106.77e-9E-05x
R² = 0.988
y = 1E+10e-6E-04x
R² = 0.6609
Air Dose Rate
Date
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)
0
0.5
1
1.5
2
2.5
3
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024

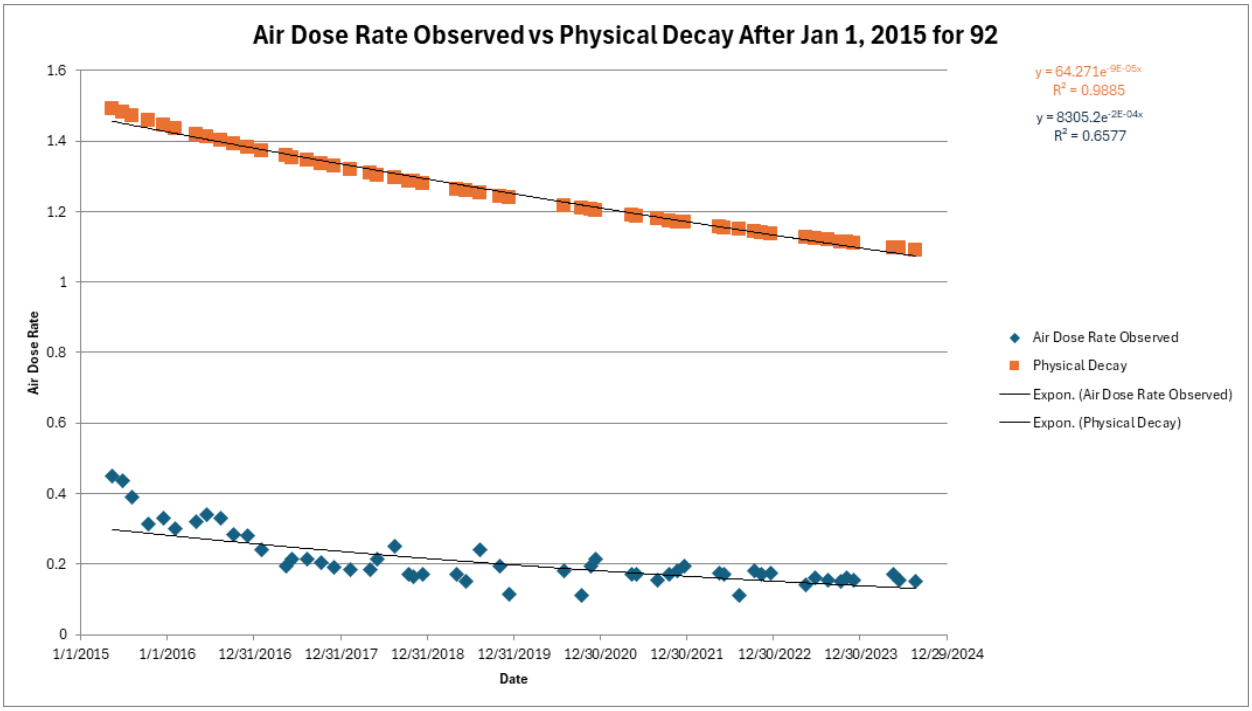

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 87
y = 56.207e-9E-05x
R² = 0.9882
y = 2E+06e-4E-04x
R² = 0.8597
Air Dose Rate
Date
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

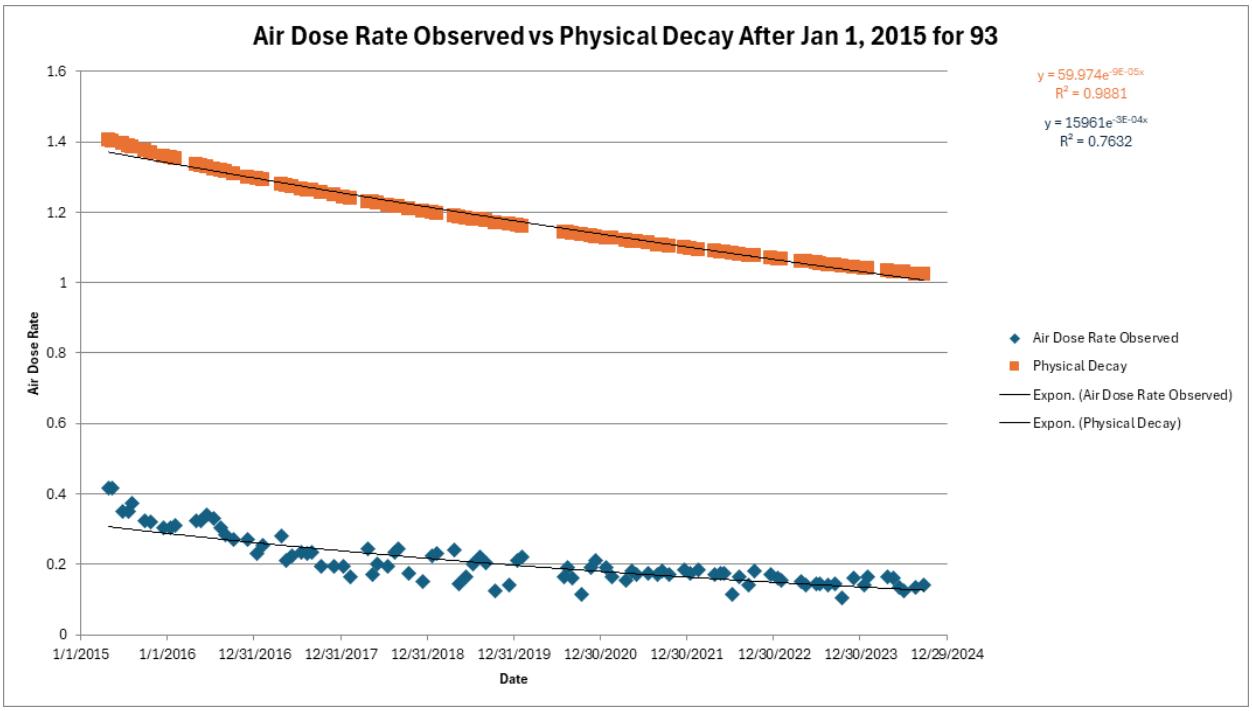

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 88
y = 34.432e-9E-05x
R² = 0.9882
y = 1096.3e-2E-04x
R² = 0.5751
Air Dose Rate
Date
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

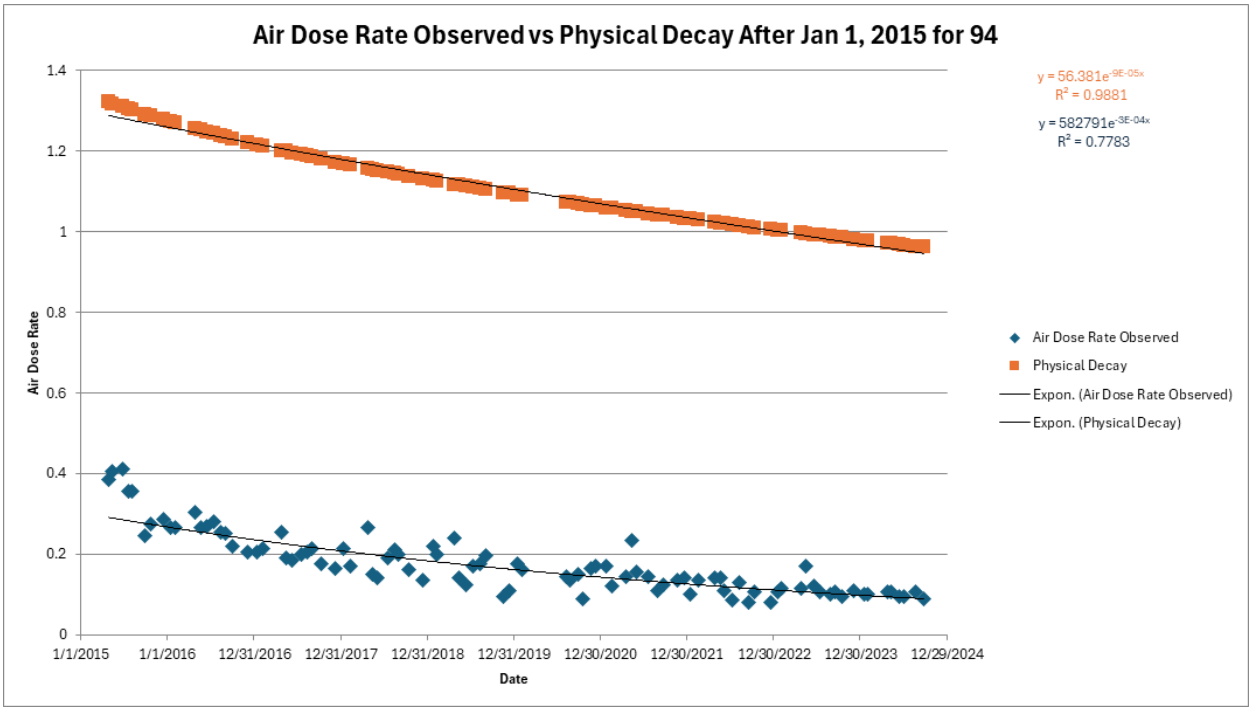

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 89
y = 39.798e-9E-05x
R² = 0.988
y = 31716e-3E-04x
R² = 0.7728
Air Dose Rate
Date
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

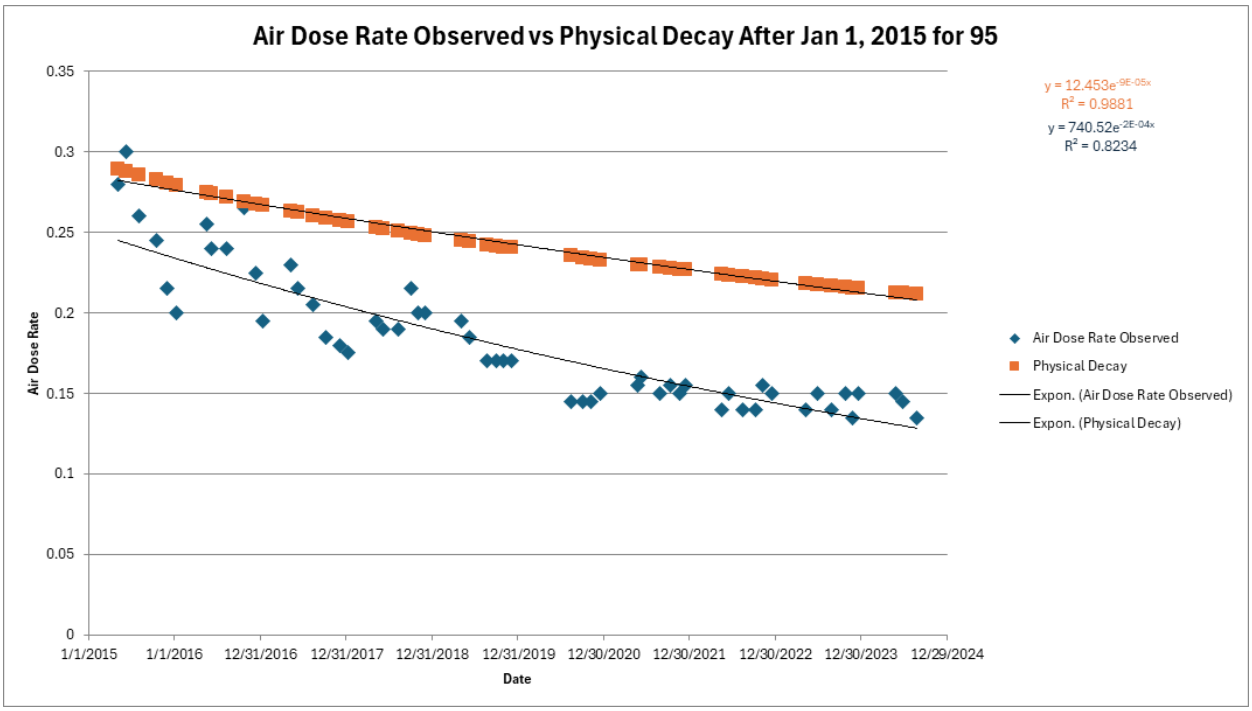

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 90
y = 56.165e-9E-05x
R² = 0.988
y = 7942.1e-2E-04x
R² = 0.7337
Air Dose Rate
Date
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

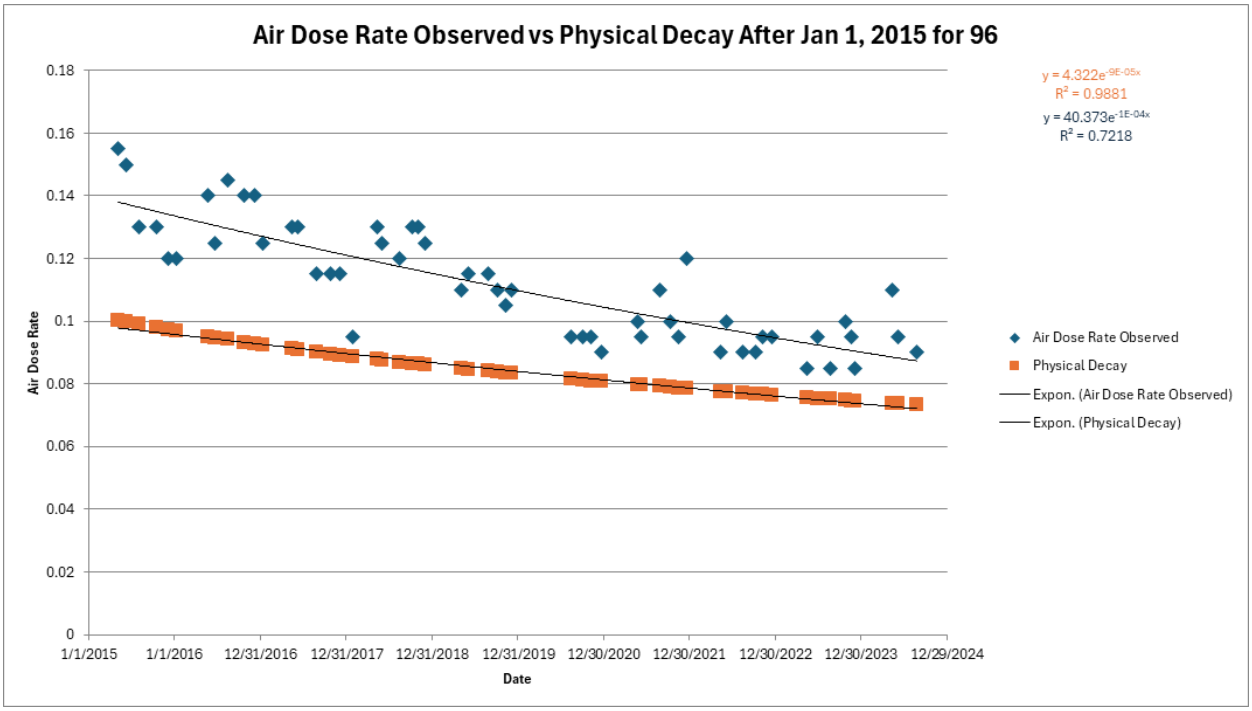

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 91
y = 28.603e-9E-05x
R² = 0.9881
y = 886.94e-2E-04x
R² = 0.5878
Air Dose Rate
Date
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

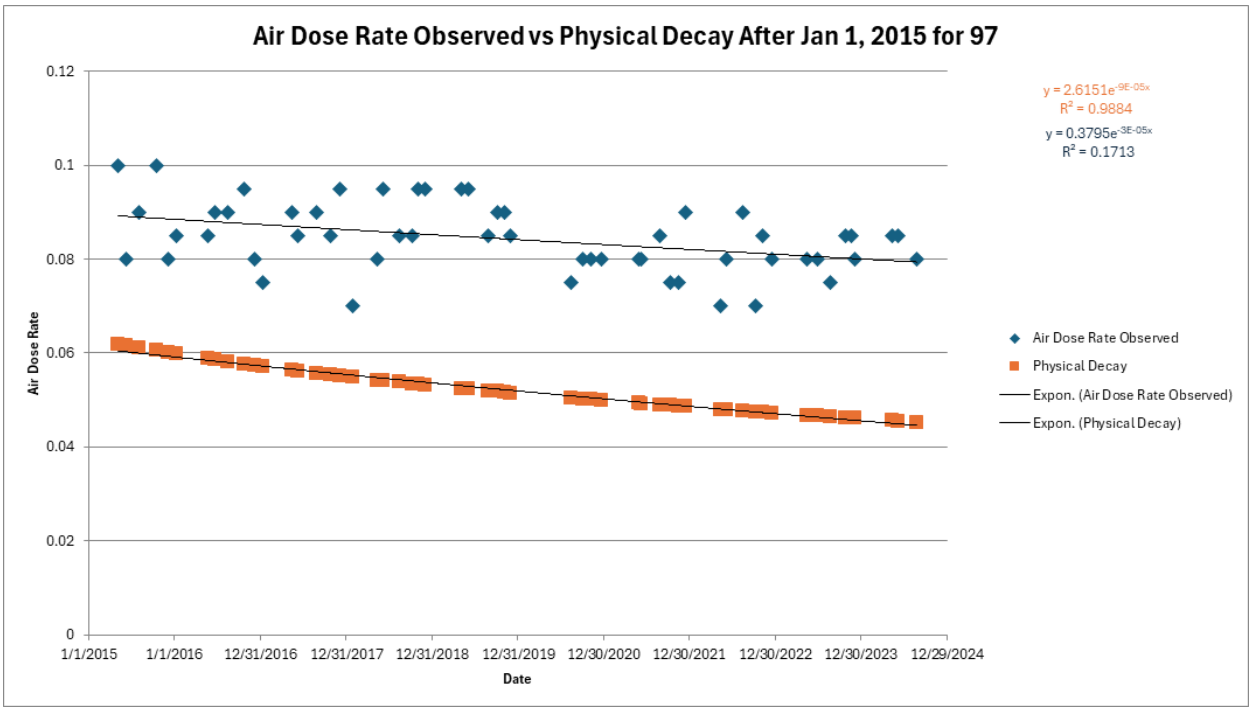

Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 92
y = 64.271e-9E-05x
R² = 0.9885
y = 8305.2e-2E-04x
R² = 0.6577
Air Dose Rate
Date
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 93
y = 59.974e-9E-05x
R² = 0.9881
y = 15961e-3E-04x
R² = 0.7632
Air Dose Rate
Date
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 94
y = 56.381e-9E-05x
R² = 0.9881
y = 582791e-3E-04x
R² = 0.7783
Air Dose Rate
Date
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 95
y = 12.453e-9E-05x
R² = 0.9881
y = 740.52e-2E-04x
R² = 0.8234
Air Dose Rate
Date
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 96
y = 4.322e-9E-05x
R² = 0.9881
y = 40.373e-1E-04x
R² = 0.7218
Air Dose Rate
Date
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)


Air Dose Rate Observed vs Physical Decay After Jan 1, 2015 for 97
0.12
0.1
0.08
0.06
0.04
0.02
0
Air Dose Rate
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023
12/29/2024
Date
y = 2.6151e-9E-05x
R2 = 0.9884
y = 0.3795e-3E-05x
R2 = 0.1713
Air Dose Rate Observed
Physical Decay
Expon. (Air Dose Rate Observed)
Expon. (Physical Decay)

P: Slope Data, Averages, and Excel T-Test Output:

Site	Observed Slope (b)	Physical Slope (b)	Difference (Phys - Obs)
1	-0.0003	-0.00009	0.00021
2	-0.0002	-0.00009	0.00011
3	-0.0003	-0.00009	0.00021
4	-0.0002	-0.00009	0.00011
5	-0.0002	-0.00009	0.00011
6	-0.0003	-0.00009	0.00021
7	-0.0002	-0.00009	0.00011
8	-0.0003	-0.00009	0.00021
9	-0.0005	-0.00009	0.00041
10	-0.0004	-0.00009	0.00031
11	-0.0002	-0.00009	0.00011
12	-0.0003	-0.00009	0.00021
13	-0.0002	-0.00009	0.00011
14	-0.0001	-0.00009	0.00001
15	-0.0002	-0.00009	0.00011
16	-0.0002	-0.00009	0.00011
17	-0.0004	-0.00009	0.00031
18	-0.0002	-0.00009	0.00011
19	-0.00009	-0.00009	0
20	-0.0003	-0.00009	0.00021
21	-0.0003	-0.00009	0.00021
22	-0.0002	-0.00009	0.00011

23	-0.0003	-0.00009	0.00021
24	-0.0006	-0.00009	0.00051
25	-0.0003	-0.00009	0.00021
26	-0.0002	-0.00009	0.00011
27	-0.0003	-0.00009	0.00021
28	-0.0003	-0.00009	0.00021
29	-0.0003	-0.00009	0.00021
30	-0.0005	-0.00009	0.00041
31	-0.0006	-0.00009	0.00051
32	-0.0003	-0.00009	0.00021
33	-0.0002	-0.00009	0.00011
34	-0.0002	-0.00009	0.00011
35	-0.0003	-0.00009	0.00021
36	-0.0003	-0.00009	0.00021
37	-0.0002	-0.00009	0.00011
38	-0.0001	-0.00009	0.00001
39	-0.0002	-0.00009	0.00011
40	-0.0002	-0.00009	0.00011
41	-0.0002	-0.00009	0.00011
42	-0.0001	-0.00009	0.00001
43	-0.0002	-0.00009	0.00011
44	-0.0002	-0.00009	0.00011
45	-0.0001	-0.00009	0.00001
46	-0.0001	-0.00009	0.00001
47	-0.00007	-0.00009	-0.00002

48	-0.0001	-0.00009	0.00001
49	-0.0002	-0.00009	0.00011
50	-0.0001	-0.00009	0.00001
51	-0.0002	-0.00009	0.00011
52	-0.0001	-0.00009	0.00001
53	-0.00007	-0.00009	-0.00002
54	-0.0002	-0.00009	0.00011
55	-0.0002	-0.00009	0.00011
56	-0.0002	-0.00009	0.00011
57	-0.0002	-0.00009	0.00011
58	-0.0001	-0.00009	0.00001
59	-0.0002	-0.00009	0.00011
60	-0.0001	-0.00009	0.00001
61	-0.0002	-0.00009	0.00011
62	-0.0002	-0.00009	0.00011
63	-0.0002	-0.00009	0.00011
64	-0.0002	-0.00009	0.00011
65	-0.0003	-0.00009	0.00021
66	-0.0003	-0.00009	0.00021
67	-0.0001	-0.00009	0.00001
68	-0.0003	-0.00009	0.00021
69	-0.0002	-0.00009	0.00011
70	-0.0003	-0.00009	0.00021
71	-0.0003	-0.00009	0.00021
72	-0.0002	-0.00009	0.00011

73	-0.0002	-0.00009	0.00011
74	-0.0002	-0.00009	0.00011
75	-0.0002	-0.00009	0.00011
76	-0.0004	-0.00009	0.00031
77	-0.0002	-0.00009	0.00011
78	-0.0006	-0.00009	0.00051
79	-0.0002	-0.00009	0.00011
80	-0.0004	-0.00009	0.00031
81	-0.0003	-0.00009	0.00021
82	-0.0004	-0.00009	0.00031
83	-0.0003	-0.00009	0.00021
84	-0.0003	-0.00009	0.00021
85	-0.0004	-0.00009	0.00031
86	-0.0006	-0.00009	0.00051
87	-0.0004	-0.00009	0.00031
88	-0.0002	-0.00009	0.00011
89	-0.0003	-0.00009	0.00021
90	-0.0002	-0.00009	0.00011
91	-0.0002	-0.00009	0.00011
92	-0.0002	-0.00009	0.00011
93	-0.0003	-0.00009	0.00021
94	-0.0003	-0.00009	0.00021
95	-0.0002	-0.00009	0.00011
96	-0.0001	-0.00009	0.00001
97	-0.00003	-0.00009	-0.00006

Average	-0.000245979	-9E-05	0.000155979
Paired T-Test (P-Value):	8.492E-23		