

All of the data used in the Suski et al. 2018 paper “Agricultural harvesting emissions of ice nucleating particles” are provided as tab delimited text files. Please contact Kaitlyn Suski (ksuski2277@gmail.com) and Paul DeMott (Paul.Demott@colostate.edu) if you plan to use this data in any publication.

Data were collected in the following locations on the following dates:

Sample	Location	Latitude, Longitude	Elevation (m)	Sampling Date
Pre-Soybean Harvest	Colby, KS	39.394, -101.066	966	10/14/14
Soybean	Colby, KS	39.394, -101.066	966	10/14/14
Sorghum	Colby, KS	39.394, -101.066	966	10/15/14
Wheat 1	Colby, KS	39.394, -101.066	966	6/30/15
Wheat 2	Colby, KS	39.394, -101.066	966	7/1/15
Corn	Lingle, WY	42.126, -104.403	1309	11/9/15

IS Parameterization Data: There are 8 files: 7 data files and 1 Read_Me file. The data are given as text files.

Air during harvests was collected on filters and run with the Ice Spectrometer (IS). Some data was run with a 2.5 um cyclone upstream of the filter collection and is indicated by cyclone in the data file name. Please see *Hill et al.* [2016] and the manuscript associated with this data for detailed procedure for collection and sample processing. This data is processed and quality-controlled. This data is the same as the IS data in the archive but includes the average number of particles greater than 500 nm (n500) and Fluorescent Biological Aerosol Particles (FBAP) for the IS sampling time and the ice parameterization D10 [*DeMott et al.*, 2010], D15 [*DeMott et al.*, 2015], and T13 [*Tobo et al.*, 2013] calculations. See the cited references for detailed information about the parameterizations.

Variables:

Temp (C): IS operating Temperature in degrees Celsius

INP (#/L): Ice Nucleating Particle Concentration measured with the IS in number per liter of air

N500 (#/L): The average number of particles greater than 500 nm measured with the Continuous Flow Diffusion Chamber in number per liter of air

FBAP (#/L): The Fluorescent Biological Aerosol Particle concentration measured with the Wideband Integrated Bio Sampler in number per liter of air

D10 (#/L): The concentration of ice predicted using the D10 parameterization in number per liter of air

D15 (#/L): The concentration of ice predicted using the D15 parameterization in number per liter of air

T13 (#/L): The concentration of ice predicted using the T13 parameterization in number per liter of air

Data Set last modified on 1/30/18.