

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
Sorghum	Colby, KS	39.394, -101.066	966	10/15/14
Corn	Lingle, WY	42.126, -104.403	1309	11/9/15

SEM Data: There are 3 folders of SEM data. The folders are named by the samples and the corresponding Continuous flow diffusion chamber (CFDC) temperature the grids were collected at.

Folder Corn_n27C contains data collected at -27 °C during the corn harvest on 11/9/15 and contains one .ipj file and a folder (C1_images) with 67 jpg images.

Folder Corn_n27C_300_C_Heat contains data where the particles were heated to 300 °C in a heating tube prior to activating as ice in the CFDC at -27 °C and then collected on a grid during the corn harvest on 11/9/15. The folder contains one .ipj file and 2 folders: C2_images with 72 tif images of the particles and C2_ref_images with 9 tif reference images of the grid setup.

Folder Sorghum_n17C contains data collected at -17 °C during the sorghum harvest on 10/15/14 and contains one .ipj file, a NOTES file, and 2 folders: K1_images with 72 jpg images of the particles and K1_ref_images with 6 jpg reference images of the grid setup.

The Scanning electron microscopy with energy dispersive X-ray spectroscopy (SEM-EDX) data is given as jpg images as well as raw spectra in .ipj files. No processing has been done. MicroSuite Software is needed to view the .ipj files.

Samples were collected on a grid downstream of the Continuous flow diffusion chamber (CFDC) at different operating temperatures as indicated by the sample names. A description of the heating tube setup is given in the corresponding manuscript linked to this data. The grids were then analyzed with SEM-EDX.

Data Set last modified on 1/30/18.