**Dust mitigation technology for lunar exploration utilizing an electron beam**

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This file describes the format of the datasets for the plots shown in Figures 3a, 4, 5, and 6. All the data files are in ASCII format.

All the data files show temporal profiles of cleanliness for electron beam current density and energy, surface material, as well as initial dust layer thickness. Each plot in the figures is averaged over 2-4 trials.

**Data Set S1.** Cleanliness as a function of time (Fig. 3a)

Test: Electron Beam Current Density

Filename: ds01.dat

Format: Column 1: time (sec)

Columns 2 – 21: cleanliness (%)

Columns 2-4 for 0.3 μA/cm2

Columns 5-8 for 0.7 μA/cm2

Columns 9-12 for 1.5 μA/cm2

Columns 13-16 for 3.0 μA/cm2

Columns 17-19 for 4.6 μA/cm2

Columns 20-21 for 6.1 μA/cm2

**Data Set S2.** Cleanliness as a function of time (Fig. 4)

Test: Electron Beam Energy

Filename: ds02.dat

Format: Column 1: time (sec)

Columns 2-10: cleanliness (%)

Columns 2-4 for 80 eV

Columns 5-7 for 150 eV

Columns 8-10 for 230 eV

**Data Set S3.** Cleanliness as a function of time (Fig. 5)

Test: Sample Material

Filename: ds03.dat

Format: Column 1: time (sec)

Columns 2-7: cleanliness (%)

Columns 2-4 for spacesuit sample

Columns 5-7 for glass surface

**Data Set S4.** Cleanliness as a function of time (Fig. 6)

Test: Initial Dust Layer Thickness

Filename: ds04.dat

Format: Column 1: time (sec)

Columns 2-9: cleanliness (%)

Columns 2-4 for thick layer

Columns 5-6 for medium layer

Columns 7-9 for thin layer