

Figure 1 is a scatter plot showing the distribution of 100 interplanetary dust particles (IDPs) in the Sun-Earth plane. The x-axis represents the Sun-Earth Direction in AU, ranging from 0.0 to 1.0. The y-axis represents the E-W Direction in AU, ranging from -1.00 to 1.00. Concentric dashed circles indicate distances from the Sun at 0.25, 0.50, and 0.75 AU. A solid arc at the right edge represents Earth's orbit at 1 AU. The IDPs are labeled with their IDs and colored based on their size: red (10), yellow (30), green (20), and grey (40). The plot shows a higher density of IDPs closer to Earth's orbit, particularly in the region between 0.5 AU and 1.0 AU.