

Tools for Analyzing Jovian Energetic Particle Data

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Abstract

We present progress on a tool suite that offers data browsing and science analysis capability for several energetic particle data sets relevant to the Jovian system. The recent addition to the tool of data from the Energetic Particle Detector (EPD) from the Galileo mission will be discussed. Other Jovian energetic particle data sets available through our mechanism include Cassini/MIMI and New Horizons/PEPSSI. We are working on adding Voyager flyby data, and data from the JEDI instrument on JUNO will also be added. Designed to meet the visualization needs of instrument teams, our tool is also publicly available online and can be accessed at the following URL: <http://datasshop.jhuapl.edu>. The tool is focused on enabling detailed studies of time scales of up to few days in duration, and therefore offers plot making capabilities and access to digital values (as ASCII save files) of the high time resolution version of the data. An overview of the analysis capabilities of the tool and the available data sets will be presented, with an emphasis on the Galileo EPD particle data.