

In-situ data from Helios 1 and 2 on the web in preparation for STEREO

P. Schroeder (1), J.G. Luhmann (1) and R. Schwenn (2)

(1) Space Sciences Laboratory, University of California, Berkeley, USA, (2)

Max-Planck-Institut für Sonnensystemforschung, Katlenburg Lindau, D-37191, Germany

Although flown in the 1970's, the Helios mission continues to provide a unique science opportunity. Not only were the twin Helios spacecraft's orbits unusual, but the in-situ instruments were capable of probing heliospheric structures in a manner similar to the upcoming STEREO mission. For the first time, we make the electron data from the Helios Plasma Experiment readily available to the public. We integrate this electron data with data already available for protons, SEPs and the magnetic field from the Helios mission as well as in-situ data from the IMP-8 and ISEE-3 missions into a single user-customizable browser and make these data available for download and local analysis in a variety of formats. Not only will analysis of the full Helios data set give new insights into the analysis of multi-point in-situ data in preparation for missions like STEREO, but the full Helios data set provides an unprecedented opportunity to explore regions of the heliosphere that remain largely unexplored.