

PUNCH Data - A Guided Tour

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Oral

(Invited Talk)

The Polarimeter to UNify the Corona and Heliosphere (PUNCH) is a constellation of satellites which observes polarized white light scattered in the solar corona. The Science Operations Center (SOC) pipeline processes individual spacecraft data into a variety of end-user science products, including stitched mosaics extending out to 45-degrees from the Sun. These data and associated metadata are crafted with compliance with standards and compatibility with Python data and astronomical tools in mind. The uniquely wide field of view of data from this virtual observatory requires particular attention to coordinate frames and data projections - bundled world coordinate system (WCS) metadata describes the spatial location of each data pixel. We will describe the primary distributed data products, outlining best practices for interacting with and processing PUNCH data. A guided interactive notebook and sample synthetic data will be distributed to the community.

Presentation file

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