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In addition to its science mission, PUNCH makes low-latency observations of the corona and heliosphere that can support space weather forecasting operations: the QuickPUNCH project, whose initial goal is to develop and demonstrate the required data products, pipeline, and low-latency capabilities. Here we describe the space weather applications for QuickPUNCH observations and provide an update on the latest QuickPUNCH progress. We discuss the specific low-latency QuickPUNCH data products for space weather and how they are used in NOAA’s Space Weather Prediction Center. We also discuss potential R2O applications for space weather, including using polarimetric data for 3D CME tracking, and the use of PUNCH data as a constraint for numerical forecasting models.
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