Craig
DeForest
Southwest Research Institute
Sarah Gibson, High Altitude Observatory
Dan Seaton, Southwest Research Institute
Marcus Hughes, Southwest Research Institute
Jillian Redfern, Southwest Research Institute
PUNCH Team, Various
Poster
NASA's Polarimeter to Unify the Corona and Heliosphere (PUNCH) launched on March 11, 2025. Its four satellites have been in Sun-synchronous twilight low Earth orbit since then. Since late 2025 May, 2025, PUNCH has been collecting polarized science images covering 90° of sky (centered on the Sun), on a four minute cadence. PUNCH data products have revealed the context of our environment in the solar system and, uniquely, permit retrospective tracking of all CMEs and SIRs throughout the inner solar system. NOAA's QuickPUNCH project delivers PUNCH data on forecast-relevant time scales, to prototype using direct real-time tracking, rather than extrapolation, for forecasting arrival of space weather systems at Earth. This poster describes the PUNCH mission, indicates photometric challenges of coronagraphic and heliospheric imaging and how PUNCH overcomes them, shows the current status of the QuickPUNCH pipeline, and displays highlights from a successful year of science operations.
Poster session day
Thursday, April 30, 2026
Poster location
50
Meeting homepage
2026 Space Weather Workshop
Download to PDF