Phillip
Chamberlin
U of Colorado/LASP
Rita Borelli, CU/LASP
Frank Eparvier, CU/LASP
Ed Thiemann, CU/LASP
Gina Dibraccio, NASA/GSFC
Christina Lee, Berkeley
Poster
Space Weather has traditionally explored the Sun’s immediate influence on the Earth system and its technology, including the direct impact on humans. With increasing missions to Mars and beyond, as well as future plans to send humans to Mars, space weather has recently expanded to include not only Mars, but also the entire heliosphere. One critical asset that has made studying space weather at Mars possible is NASA’s Mars Atmosphere and Volatile Evolution mission (MAVEN). MAVEN has instruments on board to not only study the solar irradiance, solar wind, and energetic particles, but also the in-situ and remote sensing instruments to directly measure the Sun’s impact, and its variability, on the Martian environment. This presentation focuses on the near real-time products from the EUV Monitor (EUVM), providing flare timing and magnitude/class similar to what is provided by the NOAA/GOES/XRS channels at Earth. The three near real-time space weather data products from EUVM will be presented and discussed. Additionally, the well-established personnel, tools, and methods of NASA’s Community Coordinated Modeling Center (CCMC) and Moon-to-Mars (M2M) Space Weather Analysis Office make a perfect pairing to provide the assets capable of real-time space weather monitoring and data serving of the space weather at Mars, and this Space Weather Collaboration will also be presented.

Poster category:

Poster category
Space Weather Policy and General Space Weather Contributions
Poster session day
Thursday, April 18, 2024
Poster location
32
Meeting homepage
Space Weather Workshop 2024
Download to PDF