

The Heliophysics Space Weather Science Application Program

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NASA is a mission driven agency whose science mission is focused on discovering the secrets of the universe, looking for life elsewhere, and safeguarding and improving life on Earth. Heliophysics plays a key role in every aspect of the NASA science mission, including understanding the drivers of and enabling the prediction of space weather. Heliophysics has an established research program that motivates and funds solar and space physics, which is the essence and foundation of space weather research. The Heliophysics Division has established a Space Weather Science Application Program, SWxSA. The objective of this program is to enable the transition of the knowledge and understanding of space weather to operation environments and to conduct missions that directly impact the advancement of understanding and directly enable better forecasting. We do this by partnering with sister national and international agencies, the commercial sector, and academia. SWxSA leverages relevant NASA capabilities to reach this objective, specifically the Community Coordinated Modelling Center. This talk provides an overview of SWxSA and new initiatives relevant to space weather in the NASA Heliophysics Division, and will highlight SWxSA involvement in the NASA Artemis effort to move forward to the Moon and beyond.

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