

NASA Space Weather Science Application Strategy and Activities

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The NASA Heliophysics Division Space Weather Science Application (SWxSA) program has as its strategic mission to establish a preeminent space weather capability that supports human and robotic space exploration and meets national, international, and societal needs. This is done by advancing measurement and analysis techniques and expanding knowledge and understanding that improves space weather forecasts and nowcasts. Ultimately, the SWxSA program enables space weather forecasting capability that the Agency and Nation and international community require, in partnership with NASA's Artemis Program and other Federal agencies, and international partners. This includes the development and launch of missions/instruments that advance our knowledge of space weather and improve its prediction, and the transitioning of technology, tools, models, data, and knowledge from research to operational environments. This presentation will provide an update on NASA's SWxSA space weather strategy and activities.

Keywords: space weather, prediction, Lunar Gateway