

The State and Vision for the Future of Heliophysics at NASA

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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 and focuses on increasing our knowledge of the dynamic nature of our star, and its impact on Earth, and throughout the Solar System to the boundary of interstellar space. This includes advancing our understanding of 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. This talk will provide an overview of the Heliophysics Program and how the science investigations through missions, technology, and R&A address all aspects of solar and space physics, and its relation to space weather.