2025 Workshop: Multiscale Dayside Transients Perspectives

Long title
Multiscale Dayside Transients: Community Research and Interactive Discussions
GEM-only session
Conveners
Savvas Raptis
Ivan Vasko
Imogen Gingell
Terry Z. Liu
Ying Zou
Runyi Liu
David Tonoian
savvas.raptis@jhuapl.edu
Description

Research on Multiscale Dayside Transients has advanced globally through a variety of missions and analytical tools. Although the community studying these events is steadily growing, much of the work remains localized within individual groups and research institutes. Furthermore, the broad focus of typical conferences often leaves community members less informed about the latest advancements made by their peers. This session will provide a platform for a series of short talks, followed by an open discussion, to share trends, resources, and capabilities while motivating and unifying the research community.

We welcome presentations on all dayside multiscale transient processes, including solar wind pressure pulses, IMF discontinuities, hot flow anomalies, foreshock bubbles, magnetosheath high-speed jets, shocklets, SLAMS, magnetic holes, and flux transfer events, as well as their effects on the magnetosphere-ionosphere system.

Agenda

Zoom link:
https://jhuapl.zoomgov.com/j/1612929646?pwd=w4D4RqbLyAoE0EBj5TE4S4tC5Tw1Jo.1

Please see Agenda on:
https://docs.google.com/spreadsheets/d/1rojmNUKMP581TDS9JKz2R9-E9Zto8tLkqPVGw9x286w/edit?usp=sharing

Justification

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This session is vital for providing researchers and in particular early career with feedback and a forum to showcase their recent work. It will help foster collaborations and build a strong community for the years to come while serving as a discussion platform for the objectives and knowledge gaps identified in the previous standalone session.

Related to CEDAR Science Thrusts:
Encourage and undertake a systems perspective of geospace
Explore exchange processes at boundaries and transitions in geospace
Explore processes related to geospace evolution
Fuse the knowledge base across disciplines in the geosciences
Workshop format
Short Presentations
Round Table Discussion
Other
Keywords
dayside, transients, magnetosphere, multiscale
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