2024 Workshop: Geospace data and software resources

Long title
Using geospace data and software in research for open science
Conveners
C. Alex Young
Rebecca Ringuette

c.alex.young@nasa.gov
Description

This interactive session will be geared towards students, early-career researchers, cross-disciplinary researchers, and experienced researchers interested in learning more about how to find and use NASA geospace data and software resources. We will offer a hands-on session to provide an overview of NASA solar data and software resources, with an emphasis on how to use data repositories such as the SPDF and software tools commonly used in geospace research, and gather feedback from the attendees on the activities. We will also include activities to assess the usability of the current system and survey the needs of the users, which will be used to improve the services we provide for the CEDAR community. We will also update the CEDAR community about ongoing efforts to improve the citability of our resources.

Justification

We are looking to decrease barriers between researchers new to geospace research and the resources they require by providing a hands-on session. For this session to be useful to the community and to provide more hands-on interaction, a CEDAR session is appropriate.

The session we have designed is structured as a collection of activities, including a tutorial on how to use various SPDF services, a hands-on analysis tutorial using data hosted by SPDFC provided using HelioCloud, and user activities to test our services, both existing and developing, and collect their feedback. We will advertise in the SPD/AAS, SPA/AGU, NASA/HQ, NASA/GSFC, and any other open advertisement opportunities within the geospace/heliophysics community, such as newsletters or

websites.

Related to CEDAR Science Thrusts:
Encourage and undertake a systems perspective of geospace
Develop observational and instrumentation strategies for geospace system studies
Fuse the knowledge base across disciplines in the geosciences
Manage, mine, and manipulate geoscience/geospace data and models
Workshop format
Hands On Training
Keywords
data, tools, observational, modeling
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