2025 Workshop: Long-Term Strategy for Ground-Based Heliophysics

Long title
Building a Long-Term Strategy for Ground-Based Instrumentation in Heliophysics
CEDAR-GEM
Conveners
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Description

Ground-based instruments have been instrumental in advancing our understanding of heliophysics. However, the sustainability and expansion of these critical observations face challenges due to historically limited funding for geospace programs. To secure the future of ground-based (GB) observations, we must develop a long-term, science-driven strategy that emphasizes agency collaboration and unified community advocacy.
This session will explore pathways to strengthen support for GB instrumentation, including agency collaboration, unified community approach and Science-Driven Strategy. By fostering collaboration and advocacy, we can drive sustainable growth in ground-based observations and enhance their impact on the field.

Justification

This workshop is timely, as a community-driven approach to sustaining support for ground-based instruments is essential for ensuring continuous data collection. Such support is particularly important for investigations that involve long development cycles or require long-term measurements, such as those related to the solar cycle or space missions. The central question we aim to address is: How can we design a strategic plan to ensure the long-term support of ground-based instruments? The workshop will take the form of a panel discussion, promoting dialogue on strategies for securing sustained funding, enhancing agency collaboration, and aligning

community efforts. Panelists will include representatives from funding agencies, principal investigators of space and ground-based missions, and, if available, international partners. Given its broad relevance, this topic is of significant importance to all CEDAR and GEM science areas.

Related to CEDAR Science Thrusts:
Encourage and undertake a systems perspective of geospace
Develop observational and instrumentation strategies for geospace system studies
Workshop format
Panel Discussion
Include a virtual component?
Yes
Keywords
Ground-based instrumentation, System Science, Agency cCollaboration, Science-Driven Strategy
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