

Opportunity Title: Heliophysics Science: Magnetosphere-Ionosphere Coupling

Opportunity Reference Code: 0048-NPP-NOV23-GSFC-HelioSci

Organization National Aeronautics and Space Administration (NASA)

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Application Deadline 11/1/2023 6:00:59 PM Eastern Time Zone

Description Coupling processes between the magnetosphere and ionosphere are being investigated using auroral images from the POLAR and Dynamics Explorer spacecraft, and particles and fields data from these and other STP/LWS Program spacecraft. Of particular interest are (1) the electrodynamic relationships between the particle precipitation, electric-field convection cells, the field-aligned currents, and the global aurora; (2) the source and effects of inverted-V electron precipitation; (3) the association of charged particles and field-aligned currents with aeronomic and ionospheric phenomena; and (4) the relationship between outer magnetosphere phenomena and their signatures at ionospheric altitudes.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Heliophysics Science

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Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States. A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiiir/export-control>.

Eligibility is currently open to:

- U.S. Citizens;
- U.S. Lawful Permanent Residents (LPR);
- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,
- Applicants for LPR, asylees, or refugees in the U.S. at the time of application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

Eligibility Requirements • **Degree:** Doctoral Degree.