

**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.