

Opportunity Title: Using ocean data assimilation to assess model error and sources of predictability on seasonal time scales

Opportunity Reference Code: 0232-NPP-NOV23-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

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

Description Prediction on subseasonal to seasonal time scales is societally relevant and the fidelity of these predictions has improved in recent years. Assessing the prediction skill and source of error, as well as the sources predictability in the atmosphere and in the ocean, is critical to advancing seasonal prediction skill. The Global Modeling and Assimilation Office (GMAO)'s Goddard Earth Observing System (GEOS) seasonal prediction model and data assimilation system (GEOS-S2S) is currently being used to produce MERRA-2 Ocean, a 1982-present weakly coupled reanalysis. Proposals are invited for investigations using MERRA-2 Ocean and/or the Estimating the Circulation and Climate of the Ocean (ECCO) reanalysis and the associated ocean ""analysis increments"" to assess the errors in the coupled earth system model predictions due to the combination of local and remote effects. GMAO has a particular interest in proposals that focus on the northern hemisphere high latitude regions based on the relevance for sea ice prediction.

Location:

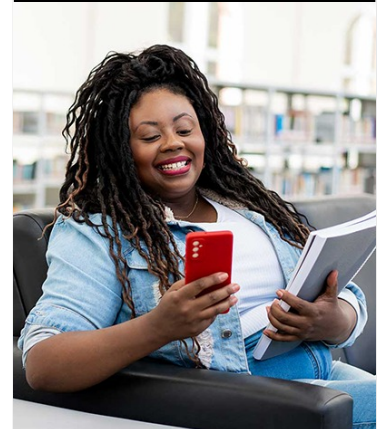
Goddard Space Flight Center
Greenbelt, Maryland

Field of Science: Earth Science

Advisors:

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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/oiir/export-control>.



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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.