Opportunity Title: Using ocean data assimilation to assess model error and sources of predictability on seasonal time scales
Opportunity Reference Code: 0232-NPP-MAR26-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0232-NPP-MAR26-GSFC-EarthSci

How to Apply All applications must be submitted in Zintellect

Please visit the NASA Postdoctoral Program website for application instructions and requirements: How to Apply | NASA Postdoctoral Program (orau.org)

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

Application Deadline 4/2/2026 6:00:59 PM Eastern Time Zone

Description **About the NASA Postdoctoral Program**

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

This opportunity is closed to applicants who are Senior Fellows (5-years or more past PhD).

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

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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:
Andrea Mara Molod
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(301) 614-6845

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.

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

Questions about this opportunity? Please email npp@orau.org

Point of Contact Mikeala

Eligibility Requirements
- **Degree:** Doctoral Degree.