

Postdoctoral Investigator

Atmospheric Circulation Response to Western Boundary Current Variability

Woods Hole Oceanographic Institution (WHOI) invites applications for a postdoctoral investigator to study large-scale atmospheric circulation response to the oceanic variability in the Kuroshio-Oyashio Extension (KOE) region with a team of scientist from WHOI (Young-Oh Kwon and Claude Frankignoul), National Center for Atmospheric Research (NCAR; Gokhan Danabasoglu and Clara Deser), and Imperial College (Arnaud Czaja).

The project aims to investigate how variability in the KOE sea surface temperature (SST) front impacts individual midlatitude storms and how these changes subsequently affect the large-scale atmospheric circulation, using climate model experiments as well as statistical analyses of observational and reanalysis datasets. The successful applicant will be involved in all aspects of this research, while primarily responsible for designing, conducting, and analyzing high-resolution atmospheric general circulation model simulations to diagnose the atmospheric response to SST anomalies driven by the KOE front displacements and their feedbacks on the oceanic mixed layer.

EDUCATION & EXPERIENCE DESIRED:

- Recent Ph.D. degree (or nearly completed) in atmospheric science, oceanography, or other relevant discipline.
- Prior experience in climate modeling, preferably with the Community Earth System Model (CESM), with ability to modify the component models to setup the planned simulations.
- Good understanding of the midlatitude atmospheric circulation and its interaction with the ocean.
- Strong written and oral communication skills, as evidenced preferably through publications in peer-reviewed scientific literature and presentations to a variety of audiences.

The position will be located at WHOI in Woods Hole, MA with the expectation of extended visit(s) to NCAR to collaborate directly with the NCAR Co-PIs. WHOI has a top-rated postdoctoral program (www.whoi.edu/postdoctoral/) that supports a dynamic postdoctoral community with formal mentoring and career guidance programs. This position is full-time and eligible for benefits. The initial appointment will be for one year with a possibility of renewal for another year. Renewal of the appointment is conditional on the postdoctoral investigator making satisfactory progress during the first year. Start date is flexible with a suggested date of October 1, 2021, but the successful candidate could begin earlier. Applications from under-represented groups in geosciences are particularly encouraged.

Qualified applicants should submit a cover letter, CV, up to three relevant publications, and contact information for at least three professional references. Please apply online at <https://careers-who.i.cims.com/jobs/1455/job>. Initial consideration will be given to applications received before June 1, 2021, but the position will remain open until it is filled.

Qualified applicants are encouraged to also consider the companion postdoc position at Imperial College [a.czaja@imperial.ac.uk].

For further information please contact Young-Oh Kwon (yokwon@whoi.edu).