



Postdoctoral Research position at LOPS – Ifremer in Arctic Physical Oceanography

We seek a physical oceanographer to join the Laboratoire d’Océanographie Physique et Spatiale in Brest (France). The goal of the project is to investigate the feedbacks associated with storm-generated surface waves and the changing dynamics of an increasingly ice-free Arctic Ocean. The project will first use remotely-sensed data (SWOT, SAR, SSML, CERSAT products) to determine characteristic signatures of storms in waves, upper ocean, and sea ice. Basin-scale modelling based on a novel coupling between the NEMO model (ocean/sea ice) and surface waves (WAVEWATCH III) will then be used to use those storm characteristics to understand their seasonal response. Future climate projection scenarios will be used to explore potential impacts of changes in storm frequency and intensity.

Location : Laboratoire d’Océanographie Physique et Spatiale, Ifremer – Brest, France.

Contract: 30 months (Initial one-year contract, with 1.5 additional year contingent on mutual satisfaction.)

Starting date: As soon as possible and no later than January 2nd 2025

How to apply

Application (detailed CV including a list of publications, cover letter explaining how your interests and experiences would make you a suitable candidate, name/email of at least 2 referees) and/or informal enquiries should be sent to Camille Lique (camille.lique@ifremer.fr) and Peter Sutherland (peter.sutherland@ifremer.fr)

Deadline: September 20, 2024

Who can apply:

A PhD in physical oceanography, meteorology, climate science, or geophysical fluid dynamics is required, with skills in observational data analysis, remote sensing, and/or numerical modelling. Expertise in statistics, numerical analysis, and programming with Matlab, Python... Experience in sea ice research would be an

asset. Motivated candidate, good capacity to work in a team. Ability to communicate and write in English.

Additionally, the candidate must fulfil the following criteria:

- The candidate must have completed their Ph.D. within 3 years of the start of the contract.
- The candidate must have spent at least 18 months working or studying outside of France between May 2020 and the beginning of the contract.

Context:

This postdoc will actively contribute to the CLIMArcTIC project (PPR Ocean & Climat funded by France2030, PI. C. Lique; <https://climarcctic.cnrs.fr>). More particularly, the postdoc will work closely with Camille Lique (camille.lique@ifremer.fr), Peter Sutherland (peter.sutherland@ifremer.fr) and Fabrice Ardhuin (fabrice.ardhuin@ifremer.fr). The postdoc will also interact closely with the members of the NEMO developer team as part of CLIMArcTIC for the modelling aspects of the work. The postdoc will be part of the groups 'Ocean and Climate' and 'SIAM' at LOPS and will benefit from the strong expertise at LOPS regarding wave processes and the dynamics of the polar regions.

The postdoc will also be involved in the current initiative at LOPS to develop a new synergy amongst researchers involved in different polar research activities (remote sensing of sea ice, wave observations and modeling), through the implementation of "axe transverse – recherches polaires".