

The Max Planck Institute for Meteorology (MPI-M) is an internationally renowned center for climate research located in Hamburg, Germany, a bustling harbor city. The MPI-M provides a vibrant international and interdisciplinary environment for conducting scientific research as well as access to state-of-the-art scientific and computing facilities.

In the Horizon2020-funded project “Constraining uncertainty of multi-decadal climate projections” (CONSTRAIN), MPI-M investigates the trends in ocean heat uptake and changes in SST patterns. In the department *The Ocean in the Earth System* we are looking for a

Postdoctoral Scientist (100%)

in the area of ocean-atmosphere coupling and climate projections. The particular task will be to characterize uncertainty in present and future SST patterns and to investigate the mechanisms behind geographical and temporal changes in SST patterns. There is ample opportunity for one’s own initiatives within this broad area of research. The work will be embedded in an international collaboration of 14 top European institutions, with many opportunities for meetings and exchange. Overall, CONSTRAIN focuses on characterizing decadal changes in radiative forcing, cloud feedbacks, circulation, and ocean variability to improve mid-century projections and constrain climate sensitivity.

Responsibilities

- Advance understanding of the processes that determine the temporal and spatial evolution of sea surface temperatures in observations and model ensembles
- Investigate the role of mesoscale eddies, surface heat fluxes, wind stress, subsurface ocean circulation, and major modes of internal variability for setting large scale SSTs
- Disseminate the results through peer-reviewed publications and presentations at conferences

Qualifications/Experience

- A PhD in meteorology, oceanography, physics, environmental science or a related field is required
- Experience in analyzing, evaluating, and visualizing large and complex datasets is required
- Experience in ocean or atmospheric dynamics, ocean-atmosphere coupling, and major internal modes of variability is desired
- Ability to effectively communicate the results within the project and to outside colleagues as well as the ability to publish in international journals

Employment conditions

- The position is offered for four years, starting August 2019 or as soon as possible thereafter
- Payment will be in accordance with German public service positions (TVöE E14), including extensive social security plans. The salary depends on professional experience is expected to be around €63,300 per annum initially. The conditions of employment, including promotions and duration, follow the rules of the Max Planck Society for the Advancement of Science and those of the German civil service.
- The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.
- Handicapped persons with comparable qualifications receive preferential status.

Deadline for applying

All applications received prior to **June 15th, 2019**, will be given full consideration. The search will be continued until the position is filled. For further information, please contact Dr. Maria Rugenstein (maria.rugenstein (at) mpimet.mpg.de) or Prof. Dr. Jochem Marotzke (jochem.marotzke (at) mpimet.mpg.de).

Do not forward your application to this email addresses; the application need to be submitted through the online application system (see link below).

We are looking forward to receiving your application

including the following documents:

- A motivation letter stating research experiences and interests
- A detailed curriculum vitae including a list of publications
- The names, addresses, and telephone numbers of two referees

Please submit the application to our online application system:

https://s-lotus.gwdg.de/mpg/mhmt/perso/mpim_w062.nsf/application