Postdoctoral researcher to work on ***Measurements of greenhouse gas fluxes, including carbon and nitrogen biogeochemistry, during fall, winter, and spring using automated chambers.***
Location: The Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI), Permafrost Research Section, Potsdam, Germany

Background and Tasks:
This position is part of the new European Research Council (ERC) research project "The role of non-growing season processes in the methane and nitrous oxide budgets in pristine northern ecosystems (FluxWIN)", which aims to quantify the magnitude of biogeochemical fluxes and their underlying processes that occur during the winter and shoulder seasons. In FluxWIN, we focus on carbon and nitrogen biogeochemistry at a research site in southern Finland near Hyytiala Forestry Research Station.

The postdoctoral researcher will address the **key question** of ***how greenhouse gas emissions and the coupling between carbon and nitrogen cycling change throughout the year***. The successful candidate will help to install the autochamber and environmental measurement systems, generate and maintain a high resolution dataset of greenhouse gas fluxes and ancillary environmental data from the automated chamber flux measurement system for the site. This data, in combination with the ancillary data, will be used to quantify differences in carbon and nitrogen biogeochemical cycling throughout the year.

The postdoctoral researcher will join the Permafrost Research Section at AWI Potsdam and will be able to use the rich laboratory, instrumentation, data, hardware and software resources available there. The postdoctoral researcher will further play an active role in student mentoring within FluxWIN and organizing team meetings within the Institute. The successful candidate will organize field expeditions for in field campaigns in boreal Finland.
Requirements:

- Completed doctoral degree degree in the field of terrestrial geosciences, biogeochemistry, or wetland paleoecology
- Demonstrated experience working with greenhouse gas fluxes or in-situ sensors
- Experience with analysis of large biogeochemical datasets
- Ability and willingness to participate in multi-week long expeditions in boreal Finland, during the summer, fall, winter, and spring
- Ability and willingness to work in a team and with international groups, excellent communication skills and fluent knowledge of English
- Interest in independent research, the presentation and publication of scientific data at conferences and workshops
- Demonstrated ability and willingness to write about and publish research results in the peer-review literature

Beneficial qualifications:

- Excellent publication record and experience presenting scientific results at international level
- Finnish language skills are an advantage
- Prior experience with carbon and nitrogen biogeochemistry

Further information can be obtained from **Dr. Claire Treat** (claire.treat@awi.de, or Claire.treat@unh.edu)**.**
The position is limited to 24 months and starts on **May 1st 2020**. The salary will be paid in accordance with the German *Tarifvertrag des öffentlichen Dienstes (TVöD Bund)*, salary level EG 13. The place of employment will be Potsdam.

We offer you a multi-disciplinary, international, and fascinating professional environment with flexible working hours, state-of-the-art research equipment, and a first-rate infrastructure. The AWI fosters the compatibility of work and family through various means. Because of our engagement in the area of work-life compatibility we have been awarded the certificate "Career and Family".

Please forward your applications with the standard documentation (a detailed **curriculum vitae** including previous publications and conference papers, as well as a **resume**, which sets out your **scientific motivation**, **previous experiences and current scientific interests, contact details for two referees**) via email to **Dr. Claire Treat** (claire.treat@awi.de).