UNIVERSITY OF GOTHENBURG

Two scholarships for 6 months to study water vapor transport to and precipitation in the Third Pole

26 April 2024

With a total area of over 5 million km^2 and an average elevation of 4000 m, the Tibetan Plateau and surrounding regions (e.g., the Himalayas) contain the largest store of ice outside the Arctic and Antarctic and is widely regarded as Earth's Third Pole (TP), third in glacier mass only to the Arctic and the Antarctic.

In 2009 three world-renowned scientists, Professors Tandong Yao, Director of the Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Lonnie G. Thompson, Distinguished University Professor at Ohio State University and Volker Mosbrugger, Director of the Senckenberg Society for Nature Research established an international research program called the Third Pole Environment (TPE). The purpose of the program is to promote international research on climate and environmental changes across the TP. To date, hundreds of scientists from over twenty nations have been involved in the development of the TPE Program, which capitalizes on the physical, biological, and political advantages of countries within the TPE region and the scientific and technological assets of European and American research institutes.

In 2018, the TPE Program signed an MoU with the Department of Earth Sciences at the University of Gothenburg to offer scholarships to students from anywhere in the world to carry out studies that are relevant to the goals of TPE.

Now we have such a scholarship for 6 months for two students working towards a PhD or making master thesis publishable by conducting studies on transport processes for water vapor to the Third Pole and effects of microphysics on precipitation simulation in the Third Pole. If interested, you are invited to send an application for the scholarship to Prof. Deliang Chen (deadline: 6 May 2024) by sending him your CV and a cover letter to deliang@gvc.gu.se. The successful candidate is expected to be familiar with the subject of the projects, advanced statistical analysis, and dynamical diagnosis with large amounts of observation (e.g., ERA5) and/or climate model data (CORDEX). Knowledge of climate dynamics and regional climate processes and proficiency in programming and data visualization (Python, NCL, and Fortran) are also needed.

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