

AOB Seminar

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場 所: 地震・噴火予知研究観測センター 第二会議室

講演題目: Measuring Active Tectonics, Hydrology, and the Cryosphere
using Geodesy

Geodesy has become one of the most important techniques for measuring changes in the Earth system. Active geological and environmental processes cause motion and deformation of the Earth's surface and/or changes in the gravity field, which can now be measured and modeled with unprecedented precision. I will introduce four major topics in this talk: plate tectonics, plate boundary processes including active faulting, tracking the motion of water around the planet, and Glacial Isostatic Adjustment and impacts of climate change on the cryosphere. Modern space geodesy has provided revolutionary new data for studies of these processes, and in the future will provide new insights into problems like sea level change.