

### **Studies on the recent changes of snow and ice mass in Northeast Eurasia**

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Studies on snow cover, glaciers and permafrost have been done in JAMSTEC (Japan Agency for Marine-Earth Science and Technology) for more than ten years in relation to hydrological cycle and essential component of the climate system. The main research area is northeastern Eurasia which extends from the Arctic Ocean to Mongolian drylands. This area have been receiving the strong influence of the recent global warming and the decay of the cryosphere component is well seen. This presentation will explain following several research done on cryospheric changes in this area, by observation and satellite analysis ; (1) Glacier variation in Altai Mountains, (2) Permafrost decay in Northern Mongolia and Lena River Basin, (3) Thermokarst development in Lena River Basin, (4) Snow cover characteristics.