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THE RELATIONSHIP BETWEEN THE ARCTIC SEA ICE AND ASCENDING HEAT SOURCE  
FROM DEEP SEA

**Abstract**

We recently checked the special small melt area near Arctic sea ice cap. We supposed this phenomenon attribute to ascending heat source from the deep sea. These heat source is thought that it mainly occur in plate boundaries. It is difficult to measure the subsurface temperature near Arctic sea ice. So we firstly investigated the Pacific Ocean to know ascending heat source from the deep sea. We used ARGO (Array for Real-time Geostrophic Oceanography) float data. ARGO collects high-quality temperature from the upper 2000m of the ice-free global. The floats are transmitted to Iridium satellites when the float reaches the surface. We checked the ascending heat source from the observation data of ARGO. Furthermore we should study the relationship between Arctic sea ice and ascending heat source from deep sea using the observation data and simulation modeling.