

The process of the Amery Ice Shelf and its interaction with the ocean

Objective:

This investigation will study the process of Amery Ice Shelf and the physical oceanographic processes occurring beneath and outside of the ice shelves, the interaction between the ocean and the shelf and their role in determining the mass balance of ice sheets and larger-scale oceanic conditions.

Action:

This will be achieved by remote sensing of satellite and aircraft, drilling ice cores, oceanographic measurements through the hot drilling holes in the sub-ice shelf cavity and a series of ROV missions (measurements and water sampling), closed by simultaneous ship-based measurements outside of the shelf front.