Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2019P108
IMEI: 300234067709660
Buoy type: Surface Velocity Profiler (iSVP)
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 14.02.2019 11:15
Position (Lat/Lon): -68.95667/-49.82500
Region: Central Weddell Sea
Contact:
Frazer Christie (SPRI)
Expedition name: Weddell Sea Expedition 2019
Means of deployment: Ship - gangway

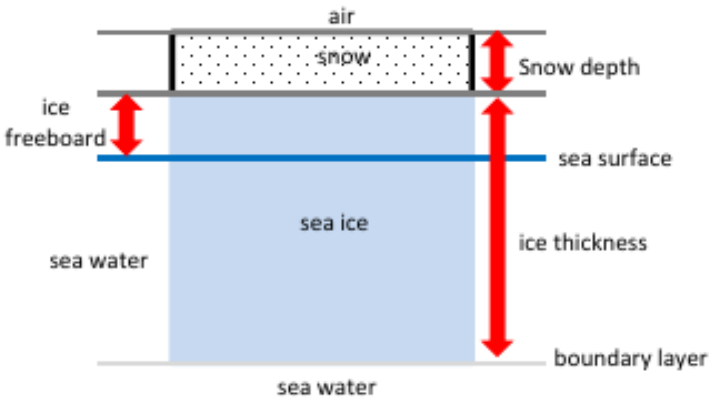
Snow and ice conditions

Snow depth: 0.15 m
Ice thickness: 1.4 m
Ice freeboard:
Ice types:
MYI (Multi Year Ice)

Buoy-specific parameters



Photo credits:



Additional information *(comments, weather, topography, ice floe size, etc.)*

The ice floe was about 22km2 in size. Origin is multiyear sea ice, with a uniform distribution of very thin snow (max 24 cm) covering most of the flat floe. Of the 24 snow pit measurement sites investigated, time constraints meant that ice thickness measurements could only be carried out at 6 of these sights, and freeboard measurements could not be collected . The ice and shrouding snow were very cold (snow highly crystalline/granular). The observation from the ship indicated positive ice freeboard. Floe drift 0.2-0.3 NM/h according to ships radar. Weather unrestricted visibility, SAT -7.5 degree Celsius. The buoy was placed approx. 100 meters from the main snow pit at a uniform and level surface around 250 m from the edge of the ice floe/vessel.