Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2019P106
IMEI: 300234067707760
Buoy type: Surface Velocity Profiler (iSVP)
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 13.02.2019 17:15
Position (Lat/Lon): -67.24085/-51.67350
Region: Weddell Sea
Contact:
Frazer Christie (SPRI)
Expedition name: Weddell Sea Expedition 2019
Means of deployment: Ship - gangway

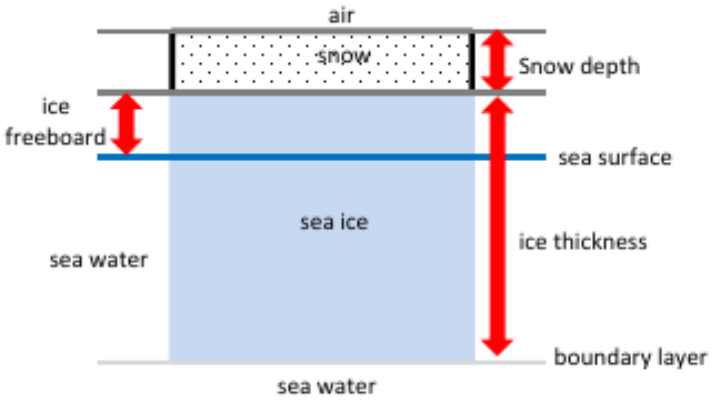
Snow and ice conditions

Snow depth: 0.34 m
Ice thickness:
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 21km2 in size. Origin is multiyear sea ice, with a uniform distribution of very thin snow (max 34.5 cm) likely covering most of the floe. Time constraints and deteriorating sea ice conditions surrounding SA Agulhas II meant no ice coring or thickness measurements could be carried out. The ice and shrouding snow were very cold (snow highly crystalline/granular), and the small layer of slush probably formed during a recent melting or rain event and tested as fresh water. The observation from the ship indicated positive ice freeboard. Floe drift 0.2 NM/h according to ships radar. Weather unrestricted visibility, SAT -10 degreeCelsius. The buoy was placed about 30 meters from the snow pit at a uniform and level surface around 150 m from the edge of the ice floe.