Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2025T131
IMEI: 300534064069310
Buoy type: Thermistor Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 03.02.2025 16:30
Position (Lat/Lon): -77.43388/-48.43112
Region: Weddell Sea
Contact:
Stefanie Arndt (AWI)
Expedition name: Polarstern PS146-HAFOS 2024/25
Means of deployment: Helicopter

Snow and ice conditions

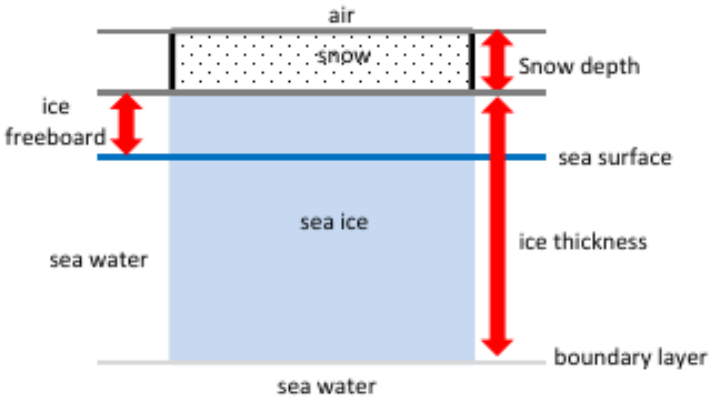
Snow depth: 0.08 m
Ice thickness: 1.65 m
Ice freeboard: 0.15 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Chain length: 5 m
Sensor spacing: 0.02 m
Sensor ice water (Sensor ID): 124
Sensor sea surface (Sensor ID): 49
Sensor snow ice (Sensor ID): 42
Sensor air snow (Sensor ID): 38



Photo credits:



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

Ice floe of buoy deployment was sampled on same day as ice station PS146_20250203_4, doing snow pit work, snow depth and sea ice thickness transects (MagnaProbe and GEM), ice coring.
Additional buoy deployments: 2025S141 (Snow Buoy), 2025A6 (AWS), 2025R28 (Radiation Station), and 2025O25 (Ocean CTD Buoy).
Ice conditions:1.5*2nm, ridge density: 10%, ridge height: 1-2m; SIC: 70-80%
Weather conditions: clouds: 7/8, T = -3°C, at time slight snow fall, calm.
Platelet ice: 1.8m