Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2025S141
IMEI: 300534066918130
WMO number: 1801861
Buoy type: Snow Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 03.02.2025 17:00
Position (Lat/Lon): -77.43250/-48.42945
Region: Weddell Sea
Contact:
Stefanie Arndt (AWI)
Expedition name: Polarstern PS146-HAFOS 2024/25
Means of deployment: Helicopter

Snow and ice conditions

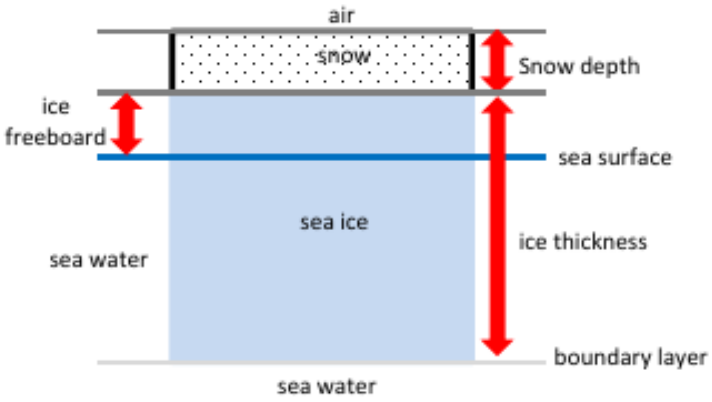
Snow depth: 0.09 m
Ice thickness: 1.65 m
Ice freeboard: 0.15 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Temp correction: off
Initial sh4: 0.09 m
Initial sh3: 0.09 m
Initial sh2: 0.085 m
Initial sh1: 0.08 m



Photo credits: Stefanie Arndt



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: 2025T131 (IMB), 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: 1,80m