Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2025R28
IMEI: 100000000000300
Buoy type: Radiation Station
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 03.02.2025 18:20
Position (Lat/Lon): -77.42750/-48.42445
Region: Weddell Sea
Contact:
Stefanie Arndt (AWI)
Expedition name: Polarstern PS146-HAFOS 2024/25
Means of deployment: Helicopter

Snow and ice conditions

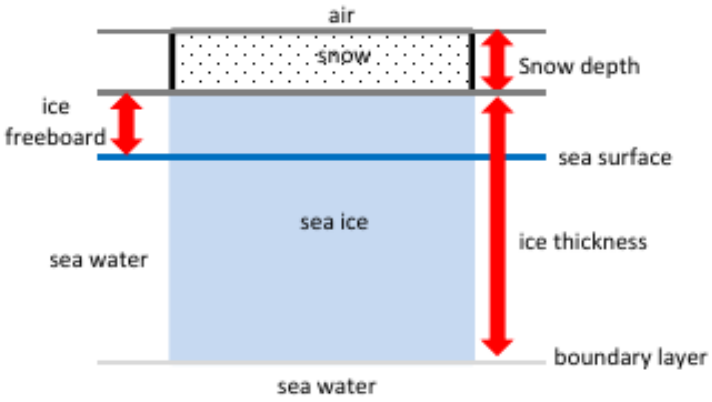
Snow depth: 0.08 m
Ice thickness: 1.65 m
Ice freeboard: 0.15 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Eco package: 1
Oxy package: 0
Microcat package: 1
Ramses package: 0
Pos incom: 1
Pos refl: 3
Pos trans: 2
Id refl: 8328
Id incom: 8836
Id trans: 8838
Serial package: 1
Lightchain package: 0
Salinity package: 0



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: 2025S141 (Snow Buoy), 2025T131 (IMB), 2025A6 (AWS), 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
Distance refl – snow surface: 100 cm
Distance trans – ice bottom: 232 cm