Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2025T133
IMEI: 300534064069300
Buoy type: Thermistor Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 07.02.2025 10:40
Position (Lat/Lon): -74.47583/-36.33888
Region: Weddell Sea
Contact:
Stefanie Arndt (AWI)
Expedition name: Polarstern PS146-HAFOS 2024/25
Means of deployment: Helicopter

Snow and ice conditions

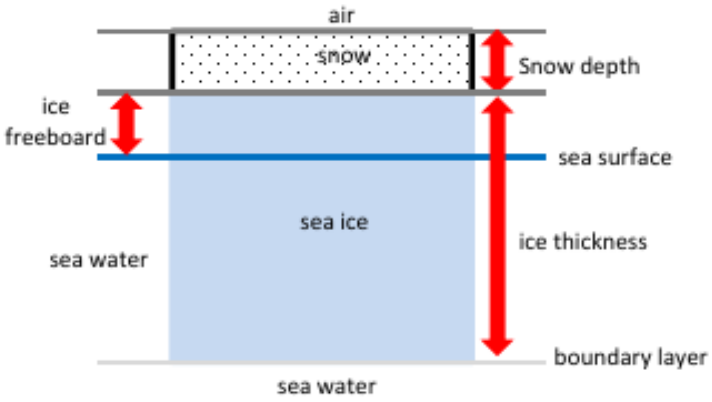
Snow depth: 0.07 m
Ice thickness: 0.99 m
Ice freeboard: 0.08 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Chain length: 5 m
Sensor spacing: 0.02 m
Sensor ice water (Sensor ID): 111
Sensor sea surface (Sensor ID): 65
Sensor snow ice (Sensor ID): 61
Sensor air snow (Sensor ID): 58



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_20250207_9, doing snow pit work, snow depth and sea ice thickness transects (MagnaProbe and GEM), ice coring.
Additional buoy deployment: 2025S144 (Snow Buoy)
Ice conditions: floe size: 4.5*2.5nm, ridge density: 60-70%, ridge height: 1-2m; SIC: 60-70%
Weather conditions: clouds: 8/8, sunny, T = -2°C, 4 Bft