Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2025T132
IMEI: 300534064067310
Buoy type: Thermistor Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 06.02.2025 10:42
Position (Lat/Lon): -74.95472/-30.63195
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: 1.12 m
Ice freeboard: 0.13 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Chain length: 5 m
Sensor spacing: 0.02 m
Sensor ice water (Sensor ID): 110
Sensor sea surface (Sensor ID): 60
Sensor snow ice (Sensor ID): 54
Sensor air snow (Sensor ID): 50

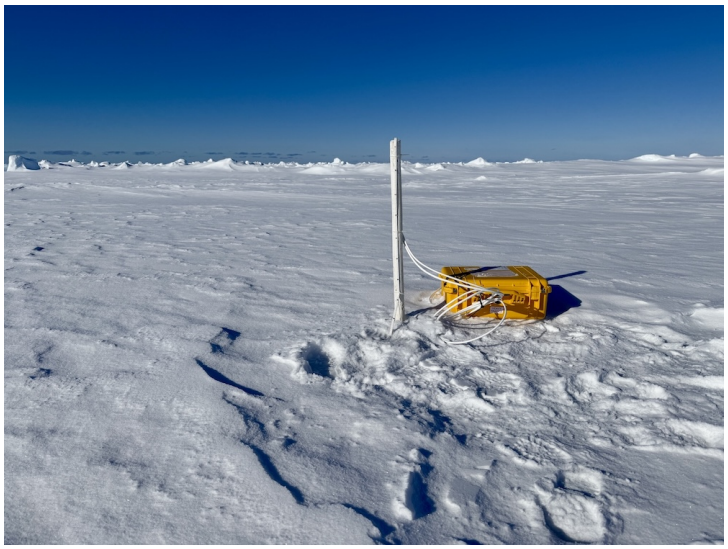
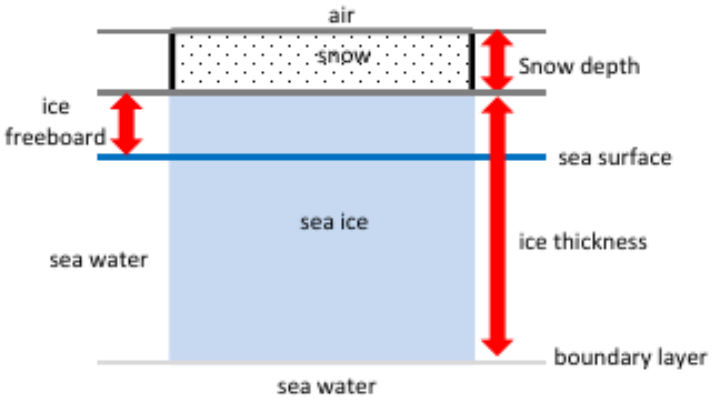


Photo credits: Stefanie Arndt



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 deployment: 2025S142 (Snow Buoy)
Ice conditions: floe size: 15*8nm, ridge density: 70-80%, ridge height: 1-1.5m; SIC: 30-40%; rarely scattered surface "ponds" (= surface flooding)
Weather conditions: clouds: 2/8, sunny, T = -2°C, 2 Bft