Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2022T98
IMEI: 300534063054450
Buoy type: Thermistor Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 27.08.2022 13:00
Position (Lat/Lon): 89.93932/38.83667
Region: North Pole
Contact:
Steffen Graupner (Unknown at import time)
Expedition name: Charcot 22
Means of deployment: Ship - gangway

Snow and ice conditions

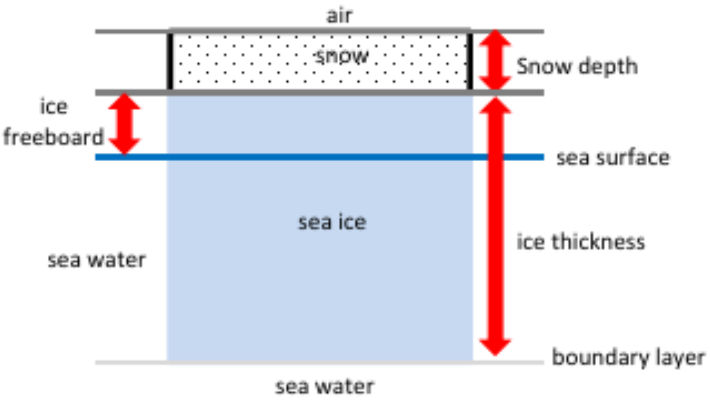
Snow depth: 0.04 m
Ice thickness: 1.55 m
Ice freeboard: 0.27 m
Ice types:
FYI (First Year Ice)
Meltpond
Ridge
SYI (Second Year Ice)

Buoy-specific parameters

Sensor air snow (Sensor ID): 36
Sensor snow ice (Sensor ID): 39
Sensor sea surface (Sensor ID): 53



Photo credits:



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

Location at start of deployment: 89° 56,3592'N
38° 50,2000'E
Ca. +3°air temperature, changing cloud cover: morning very foggy, later mostly cloudy and overcast, generally good visibility and some sun, ~5 kn wind.
First year ice, with pressure ridges and melt ponds within 20m radius (no better floe to be found for passenger operations, deployment structure see drone pictures). Some patches of 2nd year ice and/or floes thickened by ice dynamics. (See drone pictures.)
Meltponds with ca. 7cm ice cover on top, below ~50cm water, below ~1m ice.

Number of sensor at interfaces difficult to detected, so pls allow error margin:
- Pole length from top of Pole to the ice 100cm, Snow depth 4cm, Ice thickness 155cm
- Top of string at top of Pole sensor number: 1
- Top of snow sensor number: 36
- Bottom of snow sensor number: 38
- Top of ice sensor number: 39
- Top of water sensor number: ~53