Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2021T86
IMEI: 300234068454520
Buoy type: Thermistor Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 17.03.2021 17:45
Position (Lat/Lon): -70.62313/-7.67486
Region: Atka Bay
Contact:
Christian Haas (AWI)
Stefanie Arndt (AWI)
Expedition name: PS124
Means of deployment: Helicopter

Snow and ice conditions

Snow depth: 0.77 m
Ice thickness: 2.35 m
Ice freeboard: -0.06 m
Ice types:
Fast Ice

Buoy-specific parameters

Sensor snow ice (Sensor ID): 5
Sensor ice water (Sensor ID): 122
Sensor spacing: 0.02 m
Chain length: 5 m

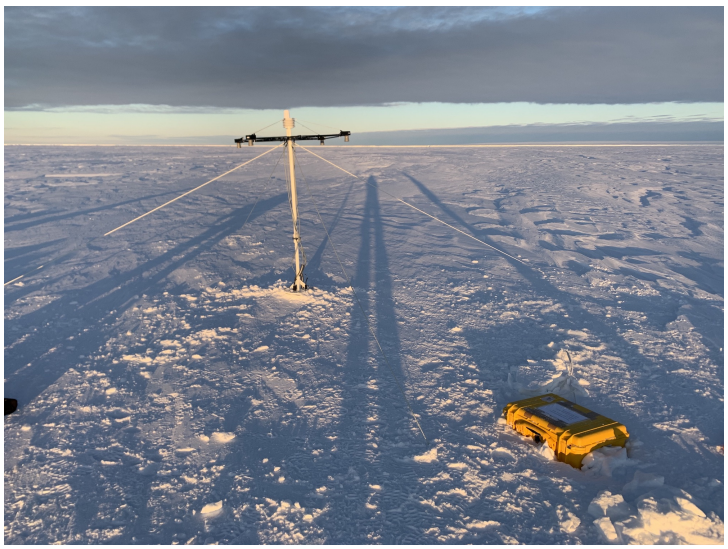
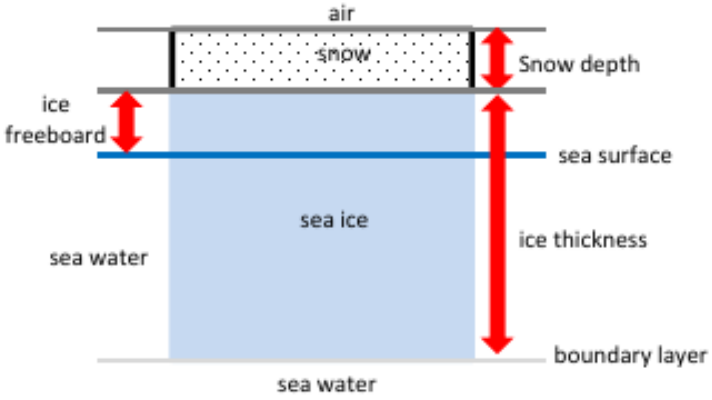


Photo credits: Stefanie Arndt



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

Fast ice station in Atka Bay (PS124_20210317_18) at ATKA11p, on the parallel transect of the main ATKA transect southwards, doing snow pit work, a sea ice thickness transect (GEM), ice coring and a CTD profile. Distance between buoy deployment site and sampling/coring site roughly 20 meters.

No sensors in snow due due heavy snow load and too short thermistor chain.
Platelet ice thickness [cm]: 278
Sensor at ice/platelet ice interface: 122
Sensor at platelet ice/water interface: 256

Co-deployment with SnowBuoy 2021S113 and an Ice-tethered Aquadopp from the oceanography (depth: 220 m; CTDs at 215m and 110m; current meter at 160m; temperature sensor at 40 m).

Ice conditions: Ridge density: 0%, super compacted snowpack; nice snow dunes on top.
Weather conditions: clouds: 2/8 , T = -11°C, calm