Buoy Deployment Report

seaiceportal.de



Buoy information

Buoy name: 2018S83
IMEI: 300234066345560
WMO number: 4802518
Buoy type: Snow Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

Date and Time (UTC): 21.08.2018 05:47
Position (Lat/Lon): 78.35200/-167.94600
Region: Chukchi Sea
Contact:
Julienne Stroeve (NSIDC)
Expedition name: RV Araon 2018
Means of deployment: Helicopter

Snow and ice conditions

Snow depth: 0.1 m
Ice thickness: 2 m
Ice freeboard: 0.13 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Temp correction: off
Initial sh1: 0.08 m
Initial sh2: 0.07 m
Initial sh3: 0.09 m
Initial sh4: 0.11 m
Sensor sh4 stop: 2018-09-14 10:00 UTC
Sensor press stop: 2018-09-14 10:00 UTC
Sensor temp stop: 2018-09-14 10:00 UTC
Sensor gps stop: 2018-09-14 10:00 UTC
Sensor sh1 stop: 2018-09-14 10:00 UTC
Sensor sh2 stop: 2018-09-14 10:00 UTC
Sensor sh3 stop: 2018-09-14 10:00 UTC

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

Floe description: several km, 0-10 percent ridges of 0.5 to 1m height, deployment between 3 ridges and also a melt pond. Ice outside of the ridge area tended to be less than 1m thick. Co-deployed with IMB 046 (BAS), IMB 047 (BAS). We drilled two other holes away from the ridge and found the ice to only be 1.2 m thick. water saturated, 1m deep 10inch auger hole quickly filled with water. All sites tested for deployment had the same issue but were in thinner ice. Buoy deployed near ridge to secure the thickest ice. Buoy within 100m from the melt pond buoy.