Buoy Deployment Report

seaiceportal.de

Buoy information

Buoy name: 2018M16
IMEI: 300025010020241
Buoy type: IMBflex
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research

Deployment information

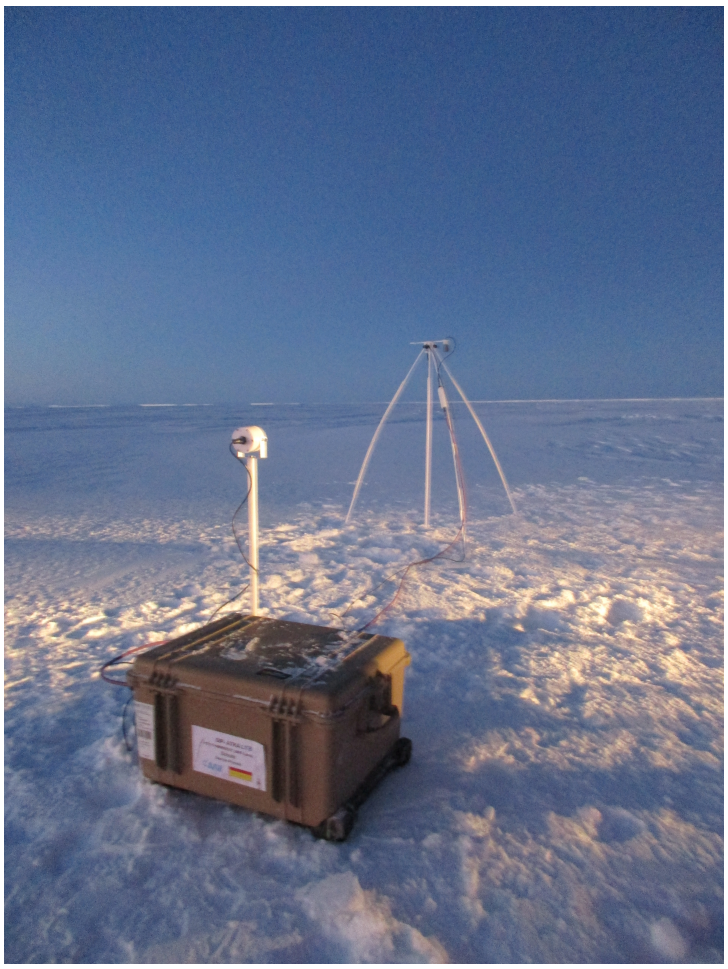
Date and Time (UTC): 28.06.2018 18:30
Position (Lat/Lon): -70.58225/-7.94434
Region: Atka07, Atka Bay
Contact:
Hanno Müller (AWI)
Stefanie Arndt (AWI)
Expedition name: AFIN 2018
Means of deployment: Snow mobile

Snow and ice conditions

Snow depth: 0.17 m
Ice thickness: 0.88 m
Ice freeboard: 0.05 m
Ice types:
Fast Ice

Buoy-specific parameters

Total number of sensors: 368
Sensor ice water (SensorID): 142
Sensor air snow (SensorID): 62
Sensor sea surface (SensorID): 72
Serial package: 1
Solar package: 0
Initial sh: 0.17 m
Sensor snow ice (SensorID): 70
Chain length: 7.36 m
Sensor spacing: 0.02 m



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

The buoy was deployed originally on 9th of June 2018. Due to a faulty temperature chain and a faulty conductivity cell there was a redeployment with a new temperature chain and a new salinity sensor on 28th of June 2018. Deployment took place on immobile fast ice with uniform snow cover. A platelet layer of 49 cm was present below the solid sea ice.
Ice thickness refers to solid sea ice only. The sensor number at ice-water interface refers to the transition from platelet ice to sea water. The weight of the salinity sensor hangs 4.50 m below the sensor, the weight of the temperature chain hangs 10 cm below the lowest temperature sensor.
Codeployed with 2018S56