Buoy Deployment Report

seaiceportal.de

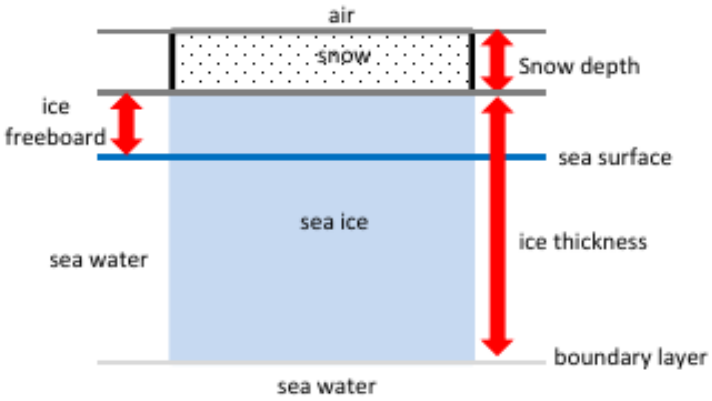
Buoy information

Buoy name: 2012T4
IMEI: 300234011523190
Buoy type: Thermistor Buoy
Buoy owner: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research



Deployment information

Date and Time (UTC): 22.11.2012 17:01
Position (Lat/Lon): -70.57510/-8.04900
Region: Atka Bay
Contact:
Mario Hoppmann (AWI)
Expedition name: AFIN 2012
Means of deployment: stationary time series



Snow and ice conditions

Snow depth: 0.01 m
Ice thickness: 2.45 m
Ice freeboard: 0.4 m
Ice types:
FYI (First Year Ice)

Buoy-specific parameters

Sensor spacing: 0.02 m
Chain length: 5 m
Total number of sensors: 240
Sensor air snow (Sensor ID): 22
Sensor snow ice (Sensor ID): 22
Sensor sea surface (Sensor ID): 42
Sensor ice water (Sensor ID): 144

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

The buoy was deployed on immobile fast ice, immediately next to an automatic weather station (ATKA03). This first year ice was strongly rafted. Snow cover was highly variable. The hole did not refreeze entirely due to the high freeboard. A platelet layer of several meters was present below the solid sea ice.
The weight on the chain was doubled to ensure it hangs straight.