

# Arctic Ocean 2016 - GPS Metadata Records

**SND-ID:** ecds0240-1.

**Is part of collection at SND:** [Arctic Ocean 2016](#), [Icebreaker Oden](#)

*This data description and associated data have been migrated from the ECDS portal to SND's research data catalogue. The level of documentation may therefore differ from other data descriptions in the catalogue. For more information about the migration of data from ECDS to SND click [here](#).*

## **Creator/Principal investigator(s)**

Hans-Martin Heyn - NTNU AMOS - Centre for Autonomous Marine Operations and Systems

## **Research principal**

[The Norwegian University of Science and Technology \(NTNU\)](#)

## **Description**

This dataset contains data collected during the Canadian-Swedish expedition Arctic Ocean 2016. The research cruise took place August through September 2016, using the icebreaker Oden.

For ship data from the cruise, as well as graphics and files describing the route, see <https://snd.gu.se/sv/catalogue/study/ecds0221>

For descriptions of Work Packages and research conducted during the cruise, see the SWEDARCTIC Arctic Ocean 2016 Expedition Report: <http://urn.kb.se/resolve?urn=urn:nbn:se:polar:diva-3475>

Additional information on the expedition, including links to publications, is available at <http://www.polarforskningsportalen.se/en/arctic/expeditions/arctic-ocean-2016>

Work Package: Ice Management

During the expedition, the GPS signal was logged by an u-Blox EVK-6T-0-001 receiver and an ANN-MS antenna. Besides the position signal, the following signals were logged as well: Ephemeris data, Time and position, Satellite elevation and azimuth, Pseudo-range, carrier-phase, Doppler and Ionospheric correction. The aim is to investigate the signal quality of GPS in the Arctic region.

Data include:

Position signal, ephemeris data, time and position, satellite elevation and azimuth, pseudo-range, carrier-phase, and Doppler and ionospheric correction.

## **Data contains personal data**

No

## **Time period(s) investigated**

2016-08-08 - 2016-08-20

## **Geographic spread**

Geographic location: [Arctic](#)

### **Research area**

[Natural sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Oceans](#) (INSPIRE topic categories)

### **Keywords**

[Oceans](#), [Geolocation](#), [The icebreaker oden](#)

### **Polygon (Lon/Lat)**

-180, 90

-180, 77.66

180, 77.66

180, 90

-180, 90

### **Accessibility level**

Access to data through an external actor

Access to data is restricted

### **Homepage**

[Polar Research Portal](#)

### **Contact for questions about the data**

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### **Is part of collection at SND**

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