

Arctic Ocean 2016 - Dissolved Gaseous Elemental Mercury in Surface Seawater

SND-ID: ecds0236-1.

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

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Creator/Principal investigator(s)

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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: Heavy Metals Road Map Project

Dissolved gaseous mercury was continuously measured (with 5 min resolution) in surface seawater along the Arctic Ocean 2016 cruise track. The bow water system was used to pump seawater into the wetlab where the water was purged with clean air, releasing dissolved gaseous elemental mercury (DGM) into the outgoing air. An opposite flow extractor was used for the purging and a Tekran 2537A cold vapor atomic fluorescence spectrometer was used for the detection of elemental mercury in the outgoing air. The data can be used to calculate the flux of elemental mercury from sea surfaces in the Arctic and to monitor the concentrations of mercury in the Arctic marine environment.

Data include:

Dissolved gaseous elemental mercury in surface seawater

Data contains personal data

No

Time period(s) investigated

2016-08-18 – 2016-09-20

Geographic spread

Geographic location: [Arctic](#)

Research area

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

[Oceans](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Dissolved gases](#), [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

Contacts for questions about the data

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