

Arctic Ocean 2016 - Continuous Measurements of Mercury Species in Air

SND-ID: ecds0235-1.

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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 Monitoring

During the Arctic Ocean 2016 expedition gaseous elemental mercury (GEM) was measured continuously in air with 5 min resolution using a Tekran 2537B cold vapor atomic fluorescence spectrometer, installed on the 4th deck in the fore of the ship. Fractionation of oxidized forms of mercury species in air was performed using a Tekran 1130/35 mercury speciation unit. The instrument fractionate oxidized mercury into gaseous oxidized mercury (Hg(II), GOM) and particulate mercury <2.5 um (Hg(II), HgP). Oxidized mercury species in air were measured every 4th hour along the cruise track.

Data include:

Gaseous elemental mercury and oxidized mercury species in air.

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)

[Climatology / meteorology / atmosphere](#) (INSPIRE topic categories)

[Oceans](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Atmospheric chemistry](#), [Air quality](#), [Oceans](#), [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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