

Oden Southern Ocean 2008/09 - Meteorological, Oceanographic and Ship Data Collected Onboard Icebreaker Oden during November 2008 through January 2009

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Is part of collection at SND: [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](#).

Download data

ECDS 0203-001 oso0809.zip (24.98 MB)

Associated documentation

ECDS 0203-002 oso0809ctdsmall.png (1.14 MB)

Thumbs.db (14.5 KB)

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ecds0203-1-1.0.zip (~26.13 MB)

Citation

(2017) Oden Southern Ocean 2008/09 - Meteorological, Oceanographic and Ship Data Collected Onboard Icebreaker Oden during November 2008 through January 2009 (Version 1.0) [Data set]. Swedish Polar Research Secretariat. Available at: <https://doi.org/10.5879/ecds/2016-07-07.8/1>

Creator/Principal investigator(s)

Swedish Polar Research Secretariat

Research principal

[Swedish Polar Research Secretariat](#)

Description

Oden Southern Ocean 2008/09 was a cooperative effort of the Swedish Polar Research Secretariat and the National Science Foundation (NSF) in the USA.

It was the third season in a row icebreaker Oden worked in Antarctica. The basis of the cooperative effort was that NSF chartered Oden from the Swedish Maritime Administration and the Swedish Polar Research Secretariat to break an ice channel to the McMurdo Antarctic Station in the Ross Sea, allowing supply vessels to reach the station. As Oden sailed through the Southern Ocean, researchers had an opportunity to perform marine studies.

The marine research conducted during Oden Southern Ocean 2008/09 was interdisciplinary, and involved environmental chemistry, chemical and physical oceanography, climate research,

epidemiology and evolutionary biology. The scientific findings from the expedition will play an important role in our understanding of the Antarctic system and its role in climate change. Its extreme climate and isolated location makes the Antarctic a unique platform for studying the Earth's climatic, biological and geological evolution, and the environmental problems of the future.

This data set contains meteorological, oceanographic and ship data collected during the American-Swedish expedition Oden Southern Ocean 2008/09, which was an international research cruise using the icebreaker Oden. The expedition embarked from Gothenborg, Sweden on October 28 2008 and arrived in McMurdo Januari 2009.

Data include meteorological variables: Air temperature, Humidity, Wind direction/speed, Atmospheric pressure.

Oceanographic variables: Sea water temperature, Conductivity, Salinity and Sound velocity.

Ship data: Position, Speed, Course.

Further metadata on instrumentation and the individual variables can be found in the info file. Graphics and files describing the route are included in the package.

Quality Information:

Obviously erroneous data (e.g. negative air pressure) have been omitted. No other processing or quality check of the data has been undertaken. Users should be aware of this in further data handling and analysis.

Data contains personal data

No

Time period(s) investigated

2008-11-30 - 2009-01-08

Data format / data structure

[Numeric](#)

[Geospatial](#)

Data collection 1

- Mode of collection: Physical measurements and tests
- Description of the mode of collection: Meteorological and oceanographic measurements
- Time period(s) for data collection: 2008-12-10 - 2009-01-08

Geographic spread

Geographic location: [Ross Sea](#), [Southern Ocean](#)

Research area

[Engineering and technology](#) (Standard för svensk indelning av forskningsämnen 2011)

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

[Meteorology and atmospheric sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Oceanography, hydrology and water resources](#) (Standard för svensk indelning av forskningsämnen 2011)

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

[Oceans](#) (INSPIRE topic categories)

Keywords

[Meteorology](#), [Oceans](#), [Ocean pressure](#), [Water pressure](#), [Ocean chemistry](#), [Oxygen](#), [Salinity](#), [Density](#), [Ocean temperature](#), [Water temperature](#), [Water depth](#), [Seafloor topography](#), [Bathymetry](#), [The icebreaker oden](#)

Publications

Link to publication list:

[Publications and data](#)

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Polygon (Lon/Lat)

-174.7, -28.4

-174.7, -85.1

-3.8, -85.1

-3.8, -28.4

-174.7, -28.4

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

License

[CC BY 4.0](#)

Versions

Version 1.0. 2017-06-28

Homepage

[Study homepage](#)

Related research data in SND's catalogue

[Oden Southern Ocean 2007/08 - Meteorological, Oceanographic and Ship Data Collected Onboard Icebreaker Oden during November 2007 through January 2008](#)

[Oden Southern Ocean 2007/08 - Conductivity-Temperature-Depth \(CTD\) Data Collected Onboard Icebreaker Oden during November 2007 through January 2008](#)

[Oden Southern Ocean 2008/09 - Conductivity-Temperature-Depth \(CTD\) Data Collected Onboard Icebreaker Oden during November 2008 through January 2009](#)

[Meteorological, Oceanographic and Ship Data Collected Onboard Icebreaker Oden during the Oden Southern Ocean 2010/11 Expedition](#)

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[DCAT-AP-SE 2.0](#)

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