

TITLE Metadata for "FerryBox Data Collected Onboard Icebreaker Oden"  
 Principal organisation Swedish Polar Research Secretariat  
 Contact datamanager@polar.se  
 Time period Stated under parameter DateTime  
 Time resolution 1 minute resolution (measured in higher resolution and aggregated to 1 min values)  
 Geographic spread Arctic Ocean, precise coordinates stated in parameters Latitude Longitude  
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 Quality checked No  
 Referenssystem koordinater WGS84

| Parameters        | Description                                                             | Unit    | Place      | Instrument              | Manufacturer              |
|-------------------|-------------------------------------------------------------------------|---------|------------|-------------------------|---------------------------|
| DateTime          | The time of averaging. Format: YYYY-MM-DD hh:mm:ss. UTC+0.              |         |            | FerryBox I              | -4H-JENA engineering GmbH |
| Latitude          | Latitude (Navigational data from Konsberg SeaPath 320)                  | ° / deg | sea chest  | Seatex Seapath 320/MRU5 | Kongsberg                 |
| Longitude         | Longitude (Navigational data from Konsberg SeaPath 320)                 | ° / deg | sea chest  | Seatex Seapath 320/MRU5 | Kongsberg                 |
| Speed             | Speed over ground (Navigational data from Konsberg SeaPath 320)         | kn      | sea chest  | Seatex Seapath 320/MRU5 | Kongsberg                 |
| Course            | Course over ground (Navigational data from Konsberg SeaPath 320)        | ° / deg | sea chest  | Seatex Seapath 320/MRU5 | Kongsberg                 |
| Height            | Navigational data from Konsberg SeaPath 320                             | m       | sea chest  | Seatex Seapath 320/MRU5 | Kongsberg                 |
| pressure          | Pressure in the main water cycle                                        | mbar    |            | FerryBox I              | -4H-JENA engineering GmbH |
| flow_in           | Mount of water pumped in the Debubbler                                  | l/min   |            | FerryBox I              | -4H-JENA engineering GmbH |
| flow_main         | Mount of water pumped through the main water cycle                      | l/min   |            | FerryBox I              | -4H-JENA engineering GmbH |
| flow_Bypass_1     | Mount of water pumped through bypass 1                                  | l/min   |            | FerryBox I              | -4H-JENA engineering GmbH |
| flow_Bypass_2     | Mount of water pumped through bypass 2                                  | l/min   |            | FerryBox I              | -4H-JENA engineering GmbH |
| flow_Bypass_3     | Mount of water pumped through bypass 3                                  | l/min   |            | FerryBox I              | -4H-JENA engineering GmbH |
| AI_Cycl_CDOM      | Colored Dissolved Organic Matter (Analog Input)                         | V       |            | Cyclops 7               | Turner Designs            |
| halffull          | Indication of Debubbler filling status (Debubbler half way filled)      | bool    |            | FerryBox I              | -4H-JENA engineering GmbH |
| full              | Indication of Debubbler filling status (Debubbler completely filled)    | bool    |            | FerryBox I              | -4H-JENA engineering GmbH |
| pH                | Seawater pH                                                             | pH      |            | EGA150                  | Meinsberg                 |
| Cellvoltage       | Sensor cell voltage                                                     | mV      |            | EGA150                  | Meinsberg                 |
| pH_Temp           | Seawater temperatur in pH sensor                                        | °C      |            | EGA150                  | Meinsberg                 |
| SBE45_Temp        | SBE45 sea water system, water temperature                               | °C      | Cofferdamm | SBE45                   | Seabird                   |
| SBE45_Conc        | SBE45 sea water system, conductivity                                    | S/m     | Cofferdamm | SBE45                   | Seabird                   |
| SBE45_Salinity    | SBE45 sea water system, salinity                                        | psu     | Cofferdamm | SBE45                   | Seabird                   |
| SBE45_SoundVel    | Valeport SVS underwater Sound Speed (aprox -8m under the water surface) | m/s     | Cofferdamm | SBE45                   | Seabird                   |
| Optode_Oxygen     | Optode Aandreaa oxygen concentration                                    | uMol    |            | Optode type 4835        | Aanderaa                  |
| Optode_AirSat     | Optode Aandreaa air saturation                                          | %       |            | Optode type 4835        | Aanderaa                  |
| Optode_Temp       | Optode Aandreaa temperature                                             | DegC    |            | Optode type 4835        | Aanderaa                  |
| CorrO2            | Optode Aandreaa salinity-compensated oxygen concentration               | uMol    |            | Optode type 4835        | Aanderaa                  |
| SBE38_Temp        | Sea water inlet flowcell temperature sensor                             | °C      | Tank3      | SBE38                   | Seabird                   |
| FLNTU_Chlorophyll | Chlorophyll-a fluorescence                                              | µg/l    |            | SBE ECO FLNTURTD        | Seabird                   |
| FLNTU_Turbidity   | Turbidity variability and interactions                                  | NTU     |            | SBE ECO FLNTURTD        | Seabird                   |
| Cycl_CDOM         | Calibrated CDOM concentration                                           | ppb     |            | Cyclops 7               | Turner Designs            |