

TITLE Metadata for "Meteorological, Oceanographic and Ship Data Collected Onboard Icebreaker Oden"  
Principal organisation Swedish Polar Research Secretariat  
Contact [marine@polar.se](mailto:marine@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 Oden.Ship.SeaPath.LatitudeDegrees and Oden.Ship.SeaPath.LongitudeDegrees  
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Quality checked No  
Referenssystem koordinater WGS84

All measured parameters are presented with values for:

AVG Average value for the time period  
MIN Minimum value for the time period  
MAX Maximum value for the time period  
NUM Number of logged data points during the 1 minute time period used for calculation of avg, min, max

Parameters	Description	Unit	Place	Instrument
DateTime	Date and time UTC±0			
Oden.MB.DBT	Depth under transducers of EM122, center depth	m	Multibeam	Kongsberg EM122 echo sounder
Oden.MB.SeaDepth	Depth EM122 sonar, center depth	m	Multibeam	Kongsberg EM122 echo sounder
Oden.MB.SensorDepth	Depth EM122 sonar, center depth, surface	m	Multibeam	Kongsberg EM122 echo sounder
Oden.MB.SVS.SeaTemperature	Valeport SVS water temperature, Sea water temperature of sound speed sensor	°C	Sea chest	Valeport MiniSVS Sound Velocity Sensor 0652004-T
Oden.MB.SVS.SoundSpeed	Valeport SVS underwater Sound Speed (aprox -8m under the water surface)	m/s	Sea chest	Valeport MiniSVS Sound Velocity Sensor 0652004-T
Oden.Met.AirPressure	Air Pressure	hPa	Bridge	Vaisala PTB330
Oden.Met.AirPressure.a	Pressure tendency code (a) Shape of curve for pressure trend over the last three hours, first sensor (Calculated)	hPa	Bridge	Vaisala PTB330
Oden.Met.AirPressure.ppp	Pressure trend over the last three hours, first sensor (calculated)	hPa/3h	Bridge	Vaisala PTB330
Oden.Met.AirTemperature	Air temperature, avg between port side and starboard, calculated from PT100 values	°C	\N	Calculated based on data from PT100
Oden.Met.bb2AirTemperature	Air temperature on port side of ship bridge.	°C	Bridge wing portside	PT100
Oden.Met.bbAirTemperature	HMP155, Air temperature portside	°C	Bridge roof	Vaisala HMP155
Oden.Met.bbRelativeAirHumidity	HMP155, Relative air humidity portside	%RH	Bridge roof	Vaisala HMP155
Oden.Met.Celiometer.C1_B		ft	Bridge roof, Container 26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.C1_H		ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.C2_B		ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.C2_H		ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.C3_B		ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.C3_H		ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA1_B	Altitude of first cloud level. Measured at top of container on bridge roof starboard side, Celiometer CBME80	ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA1_E	Cloud cover, first level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	octas, /8	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA2_B	Altitude of second cloud level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA2_E	Cloud cover, second level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	octas, /8	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA3_B	Altitude of third cloud level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA3_E	Cloud cover, third level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	octas, /8	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA4_B	Altitude of fourth cloud level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.CA4_E	Cloud cover, fourth level. Measured at top of container on bridge roof, starboard side, Celiometer CBME80	octas, /8	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.E		octas, /8	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.RNG		ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.Status			Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.Celiometer.VV	Vertical visibility, [-40] = No reading, Celiometer CBME80, Measured at top of container on bridge roof, starboard side.	ft	Bridge roof, Cont26 roof	Celiometer CBME80, Björn Eliasson Ingenjörfirma AB
Oden.Met.DewPointTemperature	Dew point calculated in database	°C	Database	Calculated
Oden.Met.HullTemperature	Hull temperature from insulated sensor on ship hull in void space, PT100, First hull temperature PT100 Sensor, inside on hull at -4 m under sea level. Placed 40 cm from Oden.Met.HullTemperature2	°C	Dubbel hull tank4	PT100
Oden.Met.HullTemperature2	Hull temperature from insulated sensor on ship hull in void space, PT100, Second hull temperature PT100 Sensor, inside on hull at -4m sea level	°C	Dubbel hull tank4	PT100
Oden.Met.PAR	QSR-2150 PAR	V	Bridge roof, Cont26 roof	Biospherical Instruments Inc. QSR-2150
Oden.Met.PAR.intVolt	QSR-2150 internal voltage for debug	V / Volt	Bridge roof, Cont26 roof	Biospherical Instruments Inc. QSR-2150
Oden.Met.PAR.Temperature	QSR-2150 temperature on card for debug	°C		Biospherical Instruments Inc. QSR-2150
Oden.Met.PWD22.AirTemperature	PWD22, Air temperature	°C	Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.Precipitation-1H	Precipitation intensity. Measured at top of container on bridge roof, starboard side.	mm/h	Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.Precipitation-Total	PWD22, rainfall mm total, Measured at top of container on bridge roof, starboard side.	mm	Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.PWCode	PWD22, weather code now		Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.PWCode-15M	PWD22, weather code 15min		Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.PWCode-1H	PWD22, weather code 1hour avg		Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22

Oden.Met.PWD22.Snow-Sum	PWD22, summery snow	mm	Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.Visibility-Avg10M	PWD22, Visibility 10min avg, Measured at top of container on bridge roof, starboard side.	m	Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.PWD22.Visibility-Now	PWD22, Visibility now	m	Bridge roof, Cont26 roof	Vaisala Present Weather Detector PWD22
Oden.Met.QFE	Calculated QFE, Air Pressure, Heli Pad Oden, Pressure at sea level	hPa	Database	Calculated
Oden.Met.QFF	Calculated QFF, Air Pressure, Sea level, actual atmoshere	hPa	Database	Calculated
Oden.Met.QNH	Air Pressure, Sea level, ICAO standard atmosphere	hPa	Database	Calculated
Oden.Met.RelativeAirHumidity	Relative air humidity, calculatet of HMP155 values	%RH	Database	Calculated based on data from Vaisala HMP155
Oden.Met.sb2AirTemperature	Air temperature PT100 sensor starboard	*C	Bridge wing starboard	PT100
Oden.Met.sbAirTemperature	HMP155, Air temperature starboard	*C	Bridge roof	Vaisala HMP155
Oden.Met.sbRelativeAirHumidity	HMP155, Relative air humidity starboard	%RH	Bridge roof	Vaisala HMP155
Oden.Met.SeaTemperature	Sea water temperature, at water inlet, PT100 sensor	*C	Inlet - 8 m under sea level	PT100
Oden.Met.WindBB.DirectionRel	Ultrasonic Anemometer 2D, Relative (as experienced on moving ship) wind direction. Measured on bridge roof, port side.	* / deg	Bridge wing portside	Thies Clima 4.382x.4x.xxx
Oden.Met.WindBB.DirectionRel-180	Ultrasonic Anemometer 2D, Anemometer relative wind direction portside +180deg	* / deg	Bridge wing portside	Thies Clima 4.382x.4x.xxx
Oden.Met.WindBB.SpeedRel	Ultrasonic Anemometer 2D, Anemometer relative wind speed portside	m/s	Bridge wing portside	Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel	Relative wind direction, calculated from both wind sensors values (starboard and portside)	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel-180	Relative wind direction, calculated from both wind sensors values +180deg, opposit	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel-AvgPT10M	Calculated relative wind direction 10min avg	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel-MaxPT10M	Calculated relative wind direction 10min max	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel-MaxPT2M	Calculated relative wind direction 2min max	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel-MinPT10M	Calculated relative wind direction 10min min	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionRel-MinPT2M	Calculated relative wind direction 2min min	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue	Calculated true wind direction	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue-180	Calculated true wind direction, +180deg, opposit	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue-AvgPT10M	Calculated true wind direction 10min avg	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue-MaxPT10M	Calculated true wind direction 10min max	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue-MaxPT2M	Calculated true wind direction 2min max	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue-MinPT10M	Calculated true wind direction 10min min	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindDirectionTrue-MinPT2M	Calculated true wind direction 2min minimum	* / deg	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSB.DirectionRel	Ultrasonic Anemometer 2D, Relative (as experienced on moving ship) wind direction. Measured on bridge roof, starboard.	* / deg	Bridge wing starboard	Thies Clima 4.382x.4x.xxx
Oden.Met.WindSB.DirectionRel-180	Ultrasonic Anemometer 2D, Anemometer relative wind direction starboard +180deg	* / deg	Bridge wing starboard	Thies Clima 4.382x.4x.xxx
Oden.Met.WindSB.SpeedRel	Ultrasonic Anemometer 2D, Relative (as experienced on moving ship) wind speed. Measured on bridge roof, starboard.	m/s	Bridge wing starboard	Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel	Relative wind speed, calculatet from both wind sensors values	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel-AvgPT10M	Calculated relative wind speed 10min avg	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel-AvgPT2S	Calculated relative wind speed 2s avg.	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel-By2sPT10M	Calculated relative wind speed, gust 10min avg	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel-MaxPT10M	Calculated relative wind speed 10min max	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel-MaxPT2M	Calculated relative wind speed 2min max	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedRel-MinPT10M	Calculated relative wind speed 10min min	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue	Calculated true wind speed	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue-AvgPT10M	Calculated true wind speed 10min avg	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue-AvgPT2S	Calculated true wind speed 2sec avg	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue-By2sPT10M	Calculated true wind speed, gust 10min avg	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue-MaxPT10M	Calculated true wind speed 10min max	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue-MaxPT2M	Calculated true wind speed 2min max	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Met.WindSpeedTrue-MinPT10M	Calculated true wind speed 10min min	m/s	Database	Calculated based on data from Thies Clima 4.382x.4x.xxx
Oden.Science.HG.HG_A	Mercury analyser in lab 12 - A-channel - Hg(g)	ng/m3	Container 12	
Oden.Science.HG.HG_B	Mercury analyser in lab 12 - B-channel - Hg(g)	ng/m3	Container 12	
Oden.Ship.COG	Ship GPS course over ground	* / deg	Oden	Oden navigation system
Oden.Ship.EastWest	Ship GPS east or west of 0 meridan, Ship GPS East/West (ASCII 69/72)		Oden	Oden navigation system
Oden.Ship.GPS_Time	Ship GPS time	hhmmss	Oden	Oden navigation system
Oden.Ship.HDT	Ship GYRO heading	* / deg	Oden	Mechanical gyro (2): Simrad GC80 / GPS gyro (1, used at high latitudes): Furuno SC-110
Oden.Ship.Latitude	Ship GPS Latitude		\N	Oden navigation system
Oden.Ship.LatitudeDegrees	Ship GPS Latitude	°	\N	Oden navigation system
Oden.Ship.Longitude	Ship GPS Longitude		\N	Oden navigation system
Oden.Ship.LongitudeDegrees+AA27:A116	Ship GPS Longitude	°	\N	Oden navigation system
Oden.Ship.NorthSouth	Ship GPS North/South (ASCII 78/x)		\N	Oden navigation system
Oden.Ship.ROT	Ship GYRO Rate of turn	*/m	\N	Mechanical gyro (2): Simrad GC80 / GPS gyro (1, used at high latitudes): Furuno SC-110
Oden.Ship.SeaPath.COG	SeaPath320 course over ground	* / deg		Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.EastWest	Seapath320, East/West (ASCII 69/72)		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.GGA_Qual	Seapath320, GPS signal quality		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.GPS_Date	Seapath320, Date	yyyymmdd	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.GPS_Time	Seapath320, Time		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.hdop	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5

Oden.Ship.SeaPath.HDT	Seapath320, heading	° / deg	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.head	Seapath320	° / deg	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.head-qual	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.heave	Seapath320, heave	m	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.height	Seapath320	m	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.hgt-qual	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.horiz-qual	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.Latitude	Seapath320, Latitude		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.LatitudeDegrees	Seapath320	°	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.Longitude	Seapath320, Longitude		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.LongitudeDegrees	Seapath320	°	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.NorthSouth	Seapath320, North/South (ASCII 78/x)		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.nsat	Seapath320	st	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.pdop	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.pitch	Seapath320	°	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.pitch_rate	Seapath320	°/s	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.roll	Seapath320	°	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.roll_rate	Seapath320	°/s	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.ROT	Seapath320, GYRO, rate of turn	°/min	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.rp-qual	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.SOG	Ship speed (knots) over ground from ship SeaPath	kn / knots	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.SOG_KMH	Ship speed (km/h) over ground from ship SeaPath	km/h	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.vdop	Seapath320		\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.verical_rate	Seapath320	°/s	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SeaPath.yaw_rate	Seapath320	°/s	\N	Kongsberg Seatex Seapath 320/MRU5
Oden.Ship.SOG	Ship speed over ground from ship GPS	kn / knots	\N	Ship GPS
Oden.Ship.SOG_12h	Ship speed over ground from ship GPS, 12h avg. calculated in db	kn / knots	Database	Calculated based on data from Oden Ship SOG
Oden.Ship.SOG_24h	Ship speed over ground from ship GPS, 24h avg. calculated in db	kn / knots	Database	Calculated based on data from Oden Ship SOG
Oden.Ship.SOG_3h	Ship speed over ground from ship GPS, 3h avg. calculated in db	kn / knots	Database	Calculated based on data from Oden Ship SOG
Oden.Ship.SOG_6h	Ship speed over ground from ship GPS, 6h avg. calculated in db	kn / knots	Database	Calculated based on data from Oden Ship SOG
Oden.Ship.SOG_KMH	Ship speed over ground from ship GPS calculated in db	km/h	Database	Calculated based on data from Oden Ship SOG
Oden.Ship.VBW	Ship speed over water	kn	\N	Oden navigation system
Oden.Ship.VLW_Sum	Sumery distance for speed over water	nm	\N	Oden navigation system
Oden.Ship.VLW_Trip	Distance for speed over water (trip)	nm	\N	Oden navigation system
Oden.Water.SBE45.Conductivity	Conductivity of sea water, SMHI pump Sea-Bird 45	S/m	Cofferdamm	Sea-Bird 45
Oden.Water.SBE45.Salinity	Salinity of sea water, SMHI pump Sea-Bird 45	psu	Cofferdamm	Sea-Bird 45
Oden.Water.SBE45.SoundSpeed	Velocity of sound in sea water, SMHI pump Sea-Bird 45	m/s	Cofferdamm	Sea-Bird 45
Oden.Water.SBE45.Temperature	Temperature of sea water, SMHI pump Sea-Bird 45	°C	Cofferdamm	Sea-Bird 45
Oden.Water.SBE45_MainLab.Conductivity	Conductivity of sea water in laboratory onboard Oden, SMHI pump Sea-Bird 45_MainLab	S/m	MainLab	Sea-Bird 45
Oden.Water.SBE45_MainLab.Salinity	Salinity of sea water in laboratory onboard Oden, SMHI pump Sea-Bird 45_MainLab	psu	MainLab	Sea-Bird 45
Oden.Water.SBE45_MainLab.SoundSpeed	Velocity of sound in sea water in laboratory onboard Oden, SMHI pump Sea-Bird 45_MainLab (Water has travelled in pipes from sea water inlet and is consequently warmed)	m/s	MainLab	Sea-Bird 45
Oden.Water.SBE45_MainLab.Temperature	Temperature of sea water in laboratory onboard Oden, SMHI pump Sea-Bird 45_MainLab (Water has travelled in pipes from sea water inlet and is consequently warmed)	°C	MainLab	Sea-Bird 45