

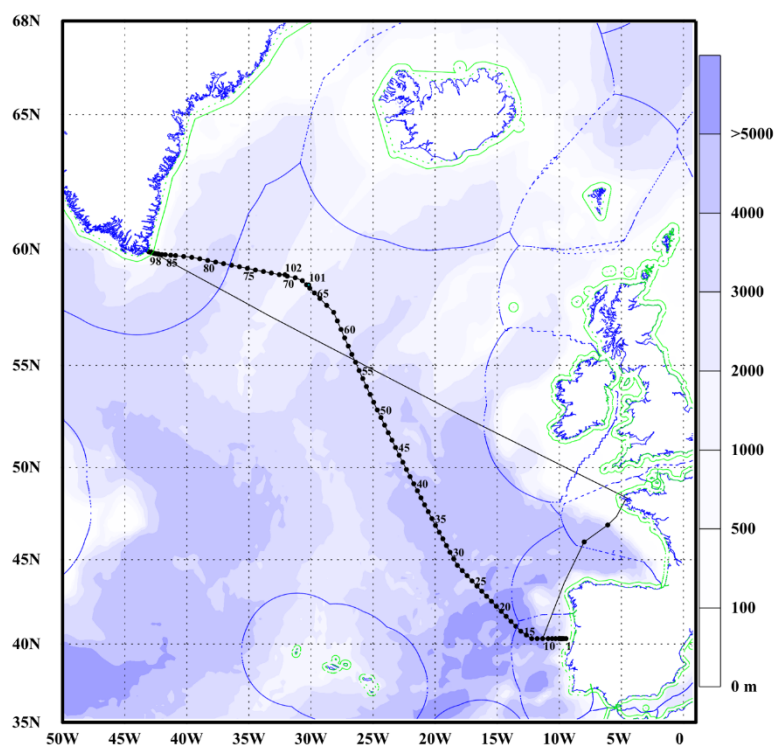


Laboratoire d'Océanographie Physique et Spatiale
UMR6523 – CNRS-IFREMER-IRD-UBO
<http://www.umr-lops.fr>

OVIDE 2018

CTD-O₂ Data report

Pierre Branellec, Pascale Lherminier,
Thierry Reynaud, Caroline Le Bihan



Reference : Int. Rep. LOPS/19-01 (June 2019)
<https://doi.org/10.17600/18000510>

OVIDE 2018

CTD-O₂ Data report

11/06/2018 to 14/07/2018

On board R/V Thalassa

Brest (France) - Brest (France)



EXPOCODE: 35TH20180611

Creation date: June 18, 2019
Last update: March 7, 2022

ABSTRACT

OVIDE 2018 cruise focused on the 9th repetition of the OVIDE section. OVIDE cruises have been run biennially since 2002, always in June-July, and the section is labelled as a high-resolution reference section in the international program GO-SHIP. OVIDE 2018 started in Brest on June 11 and ended in Brest on July 14 on the N/O Thalassa. The 98 stations of the OVIDE section, from Portugal to the tip of Greenland, were cast within 3 weeks, and 6 stations were added afterwards in the Bight Fracture Zone. The core of the work consisted in acquiring surface-to-bottom hydrographic profiles of pressure, temperature, salinity and dissolved oxygen, and analyzing 20 physical and biogeochemical tracers from 17500 samples drawn from the Niskin bottles of the CTD frame. We report here an overview of the cruise operations and team, followed by a focus on the acquisition and calibration steps of the physical variables measured specifically by the hydrographic CTD-O2 probe.

After calibration, we find precisions for pressure, temperature, salinity and dissolved oxygen that fit the GO-SHIP international quality requirements. Pressure and temperature were calibrated at the laboratory before and after the cruise, leading to a precision of 1 dbar and 0.001 °C respectively. The calibration of salinity and dissolved oxygen data is obtained by applying polynomial correcting functions that are calculated to statistically minimize the differences between the probe data and the sample data analyzed on board in the chemistry container. These chemical data are also evaluated by the comparison of replicates. After calibration, the differences in salinity and oxygen follow a zero-centered Gaussian-like distribution which standard deviation is used to evaluate the probe precision for each variable. For salinity, we find a standard deviation of 0.001, and for oxygen, 0.03 ml/l (or 1.3 $\mu\text{mol/kg}$). The oxygen uncertainty could be reduced to 1 $\mu\text{mol/kg}$ after correcting for isopycnal heave. Those numbers correspond to a 68 % confidence interval and must be doubled to obtain the precision within a 95 % confidence interval.



TABLE OF CONTENTS

1. OVIDE 2018 PROGRAM	9
1.1. CRUISE OBJECTIVES	9
2. THE OVIDE 2018 CRUISE.....	10
2.1. INTRODUCTION.....	10
2.2. DESCRIPTION OF CRUISE OPERATIONS	11
2.3. ALL OPERATIONS TIMING	12
2.4. CRUISE PARTICIPANTS.....	15
2.5. TECHNICAL OPERATIONS.....	16
2.5.1. CTD	16
2.5.2. LADCP.....	16
2.5.3. RBR probe.....	17
2.5.4. Floats	18
2.5.5. ASFAR Structure.....	19
2.5.6. Meteorological buoys.....	21
2.5.7. UCTD.....	22
2.5.8. XBT.....	23
2.5.9. Ferrybox	23
3. CTD-O₂ MEASUREMENT CALIBRATION.....	25
3.1. CTD-O ₂ DATA ACQUISITION	25
3.1.1. Technical summary.....	25
3.1.2. Technical problems during the cruise.....	27
3.1.3. Data processing.....	27
3.1.4. Detailed maps of the cruise.....	27
3.2. SAMPLING AT THE SEA	30
3.3. ANALYSIS OF SALINITY AND DISSOLVED OXYGEN SAMPLES	31
3.3.1. Standardization of salinometers.....	31
3.3.2. Salinity analysis	32
3.3.3. Dissolved oxygen	35
3.4. DATA PREPARATION BEFORE CALIBRATION	39
3.4.1. Data cleaning with Hydro_net.....	39
3.4.2. Correction for hysteresis.....	40
3.4.3. Bottle file.....	40
3.4.4. Processing with Seabird routines	40
3.5. CALIBRATION OF PRESSURE MEASUREMENT	42
3.5.1. Calibration of the sensor under laboratory conditions at 20 °C	42
3.5.2. Influence of static temperature	42
3.5.3. Influence of the dynamic temperature effect	44
3.5.4. Correction of the pressure measurement on the CTD profiles	44
3.5.5. Validation of the CTD pressure measurement	45
3.6. CALIBRATION OF THE TEMPERATURE MEASUREMENT.....	49
3.6.1. Calibration of the sensors at Ifremer laboratory.....	49
3.6.2. Calibration of the CTD measurement.....	49
3.6.3. Monitoring of the temperature measurement.....	51
3.7. CALIBRATION OF THE CONDUCTIVITY.....	52
3.7.1. Operating mode	52
3.7.2. Analysis of the initial results and strategy adopted	52

3.7.3. <i>Assessment of the calibration of the conductivity profiles</i>	8
3.7.4. <i>Validation of the results</i>	55
3.8. CALIBRATION OF DISSOLVED OXYGEN PROFILES	59
3.8.1. <i>Operating mode</i>	62
3.8.2. <i>Dissolved oxygen units</i>	62
3.8.3. <i>Analysis of the initial results and strategy adopted</i>	63
3.8.4. <i>Assessment of the calibration of the dissolved oxygen profiles</i>	63
3.8.5. <i>Validation of the results</i>	66
3.9. DATA REDUCTION	70
3.10. VALIDATION OF THE PROFILES	74
3.10.1. <i>Validation of the Oxygen profiles</i>	75
3.10.2. <i>Density inversions</i>	75
3.11. ACCURACY OF THE OVIDE 2018 MEASUREMENTS	78
3.12. CORRECTIONS OF OVIDE 2018 PROFILES	82
3.13. CORRECTIONS OF THE FLAGS OF THE OXYGEN CHEMICAL DATA	83
4. BIBLIOGRAPHY	84
5. LISTINGS AND FIGURES OF THE CTD PARAMETERS	86
5.1. REMARKS	89
5.2. SECTION PLOTS	89
5.3. LISTINGS AND FIGURES	93

2. The OVIDE 2018 Cruise

2.1. Introduction

The OVIDE 2018 cruise took place on board the R/V Thalassa from 11th June to 14th July 2018, starting and finishing at Brest (France).



Figure 1: R/V Thalassa during CTD profile

The working area is between Portugal and Greenland (see fig. 2).

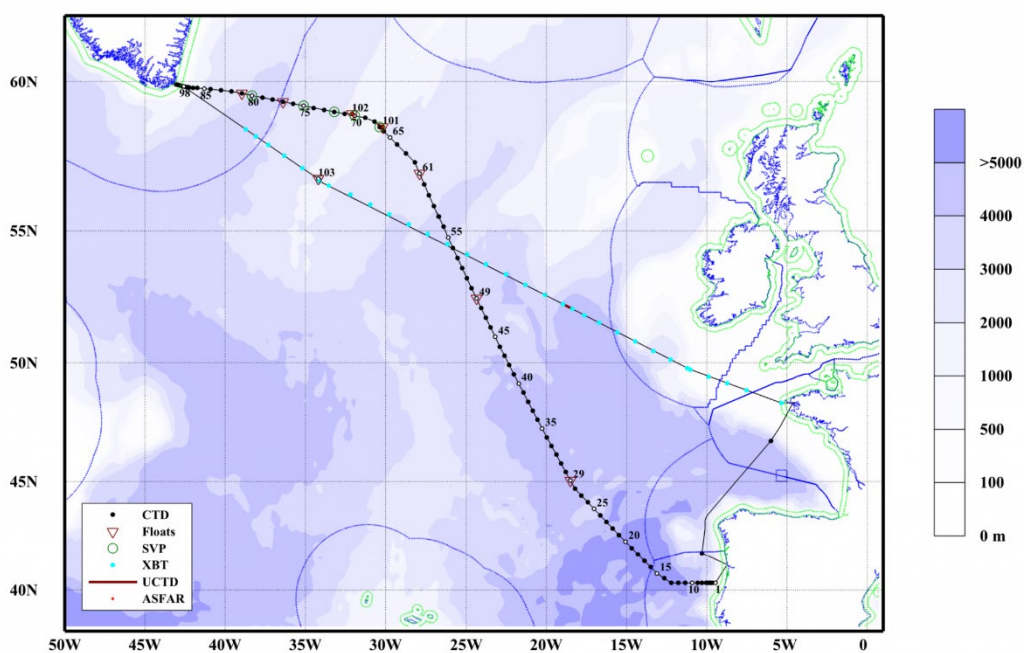


Figure 2: map of the working area

The following operations were carried out during the cruise:

- 110 CTD stations:
 - . 2 test stations (0, 999).
 - . 98 OVIDE CTD stations (1-98).
 - . 2 CTD stations at Asfar positions (101, 102).
 - . 6 CTD stations at Bight fracture zone (103-108).
 - . 2 special CTD stations (201, 209) before and after UCTD.
- 11 floats launched (5 Deep Arvor, 5 Provor DO, 1 Arvor Asfar).
- 2 ASFAR structures recovered (Asfar 2, Asfar 4).
- 2 ASFAR structures deployed (Asfar 3, Asfar 1; with 4 Arvor floats on each).
- 5 Meteo surface drifting buoys.
- 34 XBT done.
- 9 UCTD profiles.
- SADCP measurements (Ship Acoustic Doppler Current Profiler, 38 and 150 kHz data acquisition).
- Underway measurements (Thermosalinometer monitoring, Ferrybox comparison).

2.2. Description of cruise operations

The vessel *Thalassa* left Brest the 11th June at 6am (GMT) toward the Bay of Biscay for the CTD test station. Soon after the departure, problems on SADCP (Ship Acoustic Doppler Current Profiler) appeared (because gyrocompass), obliging us to come back to Brest roads for recovering spares.

After repair and SADCP calibration, the cruise restarted and the CTD test station (0) was realised the 14th June just after midnight.

The 16th June at 04am, we realised a new CTD test station (999) and after it, we headed for Porto to disembark a crew member and a scientist. The same evening we began CTD station (1), the first station of Ovide section. We finished this section the 07th July by CTD station 98.

The 01th July, we recovered the first Asfar structure (Asfar 2) followed by a CTD station (101) and we deployed a new Asfar structure (Asfar 3).

The 02th July, we recovered the second Asfar structure (Asfar 4), CTD station 102 was realised before deploying the Asfar structure (s/n 3).

Between 08th July and 09th July, some CTD stations (103 to 108) were performed near Charlie Gibbs Fracture Zone.

After these stations we began the transit to Brest.

During the transit, the 11th July, we tested our new UCTD by producing 9 profiles framed by 2 CTD stations (201 and 209) and 2 XBT profiles (21 and 22).

A new SADCP calibration was realised a few hours before arriving at Brest, the 13th July late afternoon.

2.3. All operations timing

The table below shows all the operations in chronological order.

Station number	Latitude (deg. North)	Longitude (deg. East)	Depth (m)	Date - Hour
Brest departure	48.3828	-4.4800		11/06/2018 06:00
Brest roads entry	48.2974	-4.6848	20	13/06/2018 08:24
SADCP Calib.	47.4000	-5.4000	280	13/06/2018 13:57
CTD test (0)	46.7660	-6.0020	4202	14/06/2018 00:04
Ajust. Date	44.2100	-9.1200	1810	14/06/2018 21:37
TSD entry	43.4960	-9.9670	0	15/06/2018 19:01
Cape Finisterre	43.2792	-10.1083	0	15/06/2018 20:16
TSD exit	42.8666	-10.1083	0	15/06/2018 22:32
CTD test (999)	41.7490	-10.2977	3153	16/06/2018 04:40
Porto	41.2000	-8.7330	0	16/06/2018 13:46
1	40.3333	-9.4600	155	16/06/2018 19:09
2	40.3333	-9.6430	432	16/06/2018 21:15
3	40.3333	-9.7670	819	16/06/2018 23:14
4	40.3333	-9.8050	1277	17/06/2018 02:00
5	40.3333	-9.8770	2408	17/06/2018 04:23
6	40.3333	-9.9460	3428	17/06/2018 07:14
7	40.3333	-10.0370	3523	17/06/2018 17:30
8	40.3333	-10.3020	3894	17/06/2018 21:50
9	40.3333	-10.5770	4372	18/06/2018 02:38
10	40.3333	-10.9050	4855	18/06/2018 07:25
11	40.3333	-11.3430	5102	18/06/2018 12:59
12	40.3333	-11.7830	5220	18/06/2018 19:12
13	40.3333	-12.2230	5262	19/06/2018 00:58
14	40.5520	-12.6550	5311	19/06/2018 07:08
15	40.7880	-13.1010	5338	19/06/2018 13:12
16	41.0880	-13.4970	5351	19/06/2018 19:27
17	41.3830	-13.8890	5347	20/06/2018 01:34
18	41.6840	-14.2810	5339	20/06/2018 07:42
19	41.9830	-14.6770	5333	20/06/2018 13:49
20	42.2830	-15.0660	5307	20/06/2018 19:49
21	42.5810	-15.4660	4989	21/06/2018 02:19
22	42.8810	-15.8530	4201	21/06/2018 08:16
23	43.1820	-16.2470	5128	21/06/2018 13:58
24	43.4800	-16.6360	4174	21/06/2018 20:09
25	43.7800	-17.0300	4007	22/06/2018 01:49
26	44.0790	-17.4220	3789	22/06/2018 07:09
27	44.3770	-17.8210	4959	22/06/2018 12:23
28	44.6800	-18.2150	4849	22/06/2018 18:15
29	45.0500	-18.5060	4557	23/06/2018 00:08
30	45.4230	-18.8010	4575	23/06/2018 06:02
31	45.7960	-19.0910	4519	23/06/2018 11:36
32	46.1750	-19.3810	4605	23/06/2018 17:09
33	46.5440	-19.6730	4526	23/06/2018 22:43
34	46.9170	-19.9700	4505	24/06/2018 04:17
35	47.2900	-20.2630	4516	24/06/2018 09:49
36	47.6660	-20.5530	4355	24/06/2018 15:22
37	48.0380	-20.8490	4458	24/06/2018 20:49
38	48.4130	-21.1410	4341	25/06/2018 02:20
39	48.7860	-21.4310	4078	25/06/2018 07:48
40	49.1580	-21.7250	4344	25/06/2018 13:19

41	49.5310	-22.0200	4227	25/06/2018 18:56
42	49.9050	-22.3110	4003	26/06/2018 00:26
43	50.2770	-22.6040	4134	26/06/2018 05:49
44	50.6400	-22.9000	3741	26/06/2018 11:14
45	51.0280	-23.1900	3937	26/06/2018 16:32
46	51.3990	-23.4800	3285	26/06/2018 21:52
47	51.7710	-23.7770	3857	27/06/2018 02:50
48	52.1470	-24.0720	3906	27/06/2018 08:14
49	52.5200	-24.3610	3601	27/06/2018 13:45
50	52.8920	-24.6630	3601	27/06/2018 19:26
51	53.2660	-24.9530	3527	28/06/2018 00:47
52	53.6390	-25.2390	3592	28/06/2018 06:04
53	54.0150	-25.5340	3069	28/06/2018 11:25
54	54.3880	-25.8290	3060	28/06/2018 16:32
55	54.7620	-26.1250	3611	28/06/2018 21:42
56	55.1490	-26.4090	3379	29/06/2018 03:17
57	55.5050	-26.7080	3234	29/06/2018 08:34
58	55.8830	-26.9980	2886	29/06/2018 13:55
59	56.2520	-27.2910	2741	29/06/2018 19:01
60	56.6270	-27.5800	2721	30/06/2018 00:04
61	57.0030	-27.8770	2755	30/06/2018 04:51
62	57.3770	-28.1730	2613	30/06/2018 09:59
63	57.6740	-28.7270	2461	30/06/2018 14:46
64	57.9710	-29.2800	2140	30/06/2018 19:31
65	58.2070	-29.7240	2222	01/07/2018 00:25
66	58.4100	-30.1040	2182	01/07/2018 04:58
67	58.5500	-30.3610	1592	01/07/2018 08:42
101	58.5468	-30.1833	1681	01/07/2018 11:01
68	58.7260	-30.6950	1452	01/07/2018 21:04
69	58.8440	-31.2680	1454	02/07/2018 01:08
70	58.9100	-31.9100	1686	02/07/2018 05:21
102	58.9707	-32.0891	1681	02/07/2018 07:59
71	58.9740	-32.5540	1865	02/07/2018 23:40
72	59.0410	-33.1940	2283	03/07/2018 04:05
73	59.1030	-33.8280	2273	03/07/2018 08:42
74	59.1640	-34.4750	2490	03/07/2018 13:22
75	59.2330	-35.1190	2988	03/07/2018 18:09
76	59.3000	-35.7620	3101	03/07/2018 23:02
77	59.3630	-36.3950	3096	04/07/2018 04:06
78	59.4280	-37.0390	3119	04/07/2018 09:31
79	59.4920	-37.6770	3113	04/07/2018 14:36
80	59.5570	-38.3160	3043	04/07/2018 19:24
81	59.6240	-38.9550	2928	05/07/2018 00:43
82	59.6850	-39.5980	2797	05/07/2018 06:01
83	59.7230	-40.2520	2660	05/07/2018 10:56
84	59.7560	-40.9030	2275	05/07/2018 15:45
85	59.7730	-41.2970	2039	05/07/2018 19:22
86	59.7940	-41.7300	1847	06/07/2018 06:15
87	59.7990	-42.0030	1725	06/07/2018 09:14
88	59.8090	-42.2360	1201	06/07/2018 11:46
89	59.8160	-42.2760	892	06/07/2018 13:43
90	59.8180	-42.3130	574	06/07/2018 15:39
91	59.8220	-42.3990	309	06/07/2018 17:02
92	59.8310	-42.5200	231	06/07/2018 18:27
93	59.9130	-43.0730	169	06/07/2018 20:57
94	59.8960	-42.9610	175	06/07/2018 23:05
95	59.8790	-42.8490	186	07/07/2018 01:03

96	59.8627	-42.7375	188	07/07/2018 02:30
97	59.8520	-42.6650	189	07/07/2018 03:41
98	59.8420	-42.5925	202	07/07/2018 05:00
	57.1600	-35.1300	2930	08/07/2018 09:18
	56.8250	-34.1930	1851	08/07/2018 13:00
104	56.7990	-34.1700	2492	08/07/2018 13:11
	56.7350	-34.1090	1730	08/07/2018 16:18
105	56.7830	-34.1540	2873	08/07/2018 16:43
106	56.7730	-34.1450	2289	08/07/2018 18:52
103	56.8250	-34.1930	1851	08/07/2018 21:08
107	56.7490	-34.1230	2213	08/07/2018 23:24
108	56.7350	-34.1090	1730	09/07/2018 01:45
201 before UCTD	52.3009	-18.9796	4242	11/07/2018 05:08
209 after UCTD	52.1207	-18.413	4422	11/07/2018 09:24
	49.7100	-10.9852	215	12/07/2018 14:00
	49.7166	-11.1476	322	12/07/2018 15:03
	49.7880	-11.2666	400	12/07/2018 16:06
Brest	48.3780	-4.4800	0	13/07/2018 17:32

2.4. Cruise participants

Name	Firstname	Specialty	Responsability on board	Organism	Status
Lherminier	Pascale	Physic	P.I.	Ifremer	Res.
Mercier	Herlé	Physic	Ovide Project P.I. Data quality monitoring	CNRS	Res.
Hamon	Michel	Electronic	CTD watch, L-ADCP, electronic	Ifremer	ITA
Le Bot	Philippe	Computer scientist	CTD watch	Ifremer	ITA
Leizour	Stéphane	Mechanical	CTD watch, floats	Ifremer	ITA
Theetten	Sébastien	Computer scientist	CTD watch	Ifremer	ITA
Le Toullec	Tristan	Computer scientist	CTD watch	CNRS	ITA
Parant	Gaël	Physic	CTD watch	Centrale Nantes	Student
Terre	Aouregan	Biology	CTD watch	Ifremer	ITA
Barbot	Simon	Physic	CTD watch	CNES	PhD
Bellec	Patrice	Computer scientist	CTD watch	CNRS	ITA
Le Bihan	Caroline	Metrology	Oxygen analysis	Ifremer	ITA
Reynaud	Thierry	Physic	Salinity analysis	Ifremer	ITA
Branellec	Pierre	Physic	CTD calibration; S, O2 analysis	Ifremer	ITA
Perez	Fiz	Chemistry	Carbon & pH	IIM Vigo	Res
Pacho	Laura	Chemistry	pH, alcalinity, DIC	IIM Vigo	ITA
Morente Fontela	Marcos	Chemistry	pH, alcalinity, DIC	IIM Vigo	Res.
Messias	Marie-José	Chemistry	CFC/SF6	Univ. Exeter	Res.
Murphy	Garry	Chemistry	CFC/SF6	Univ. Exeter	ITA
Hughes	Jack	Chemistry	CFC/SF6	Univ. Exeter	ITA
O'Dell	Emily	Chemistry	CFC/SF6	Univ. Exeter	PhD
Chown	Sam	Chemistry	CFC/SF6	Univ. Exeter	ITA
Castrillejo	Maxi	Chemistry	Isotopes (236U, 129I, 14C)	ETH Zurich	Res.



Figure 3: Scientific team and crew members

2.5. Technical operations

2.5.1. CTD

Some pictures of the different parts of the CTD activity. The launching and recovering of the frame is carried out by the sailors. The downcast and upcast is carried by the CTD watch in our CTD acquisition container. When the CTD returns to the bridge, chemists are busy collecting samples.



Figure 4: CTD activity

2.5.2. LADCP

The CTD frame is equipped with two LADCP (Lowered Acoustic Doppler Current Profiler), one 150 kHz looking downward and a 300 kHz looking upward. These equipment allows us to record a current profile from the surface to the bottom.

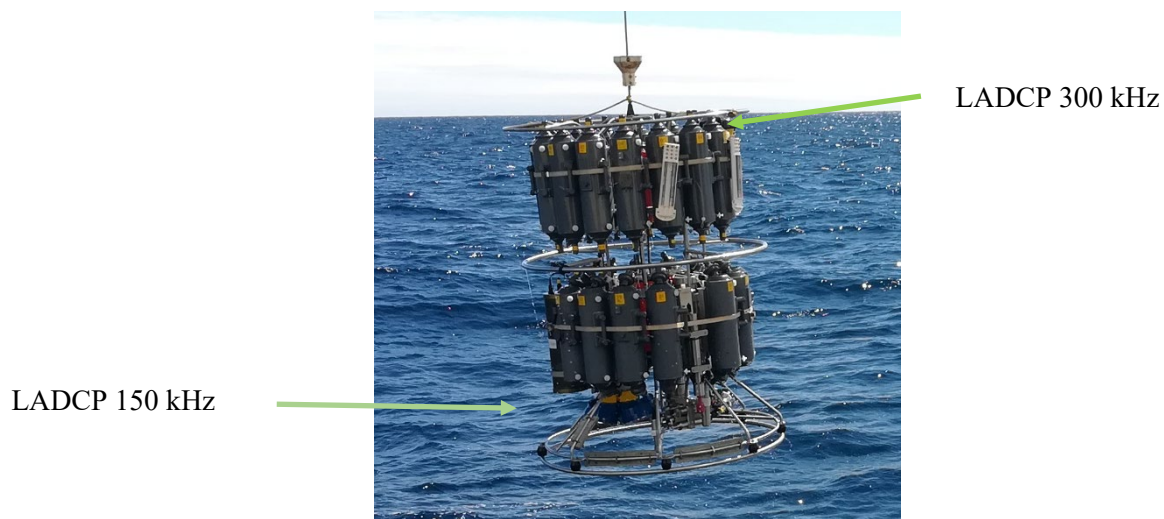


Figure 5: LADCP on CTD frame

The monitoring of the LADCP was carried out by H. Mercier during the cruise.

2.5.3. RBR probe

A probe RBR concerto was mounted on the CTD frame at the place of sampling bottle, for some stations for test. At the end we have 73,7 hours of data.

CTD station	Time (h)	CTD station	Time (h)	CTD station	Time (h)
18	3.70	68	1.48	92	0.55
55	2.87	69	1.52	93	0.60
56	3.62	70	1.53	94	0.65
57	2.60	102	1.28	95	0.25
58	2.50	71	1.75	96	0.70
59	2.23	72	1.82	97	0.55
60	2.57	73	1.98	98	0.53
61	2.10	74	2.12	104	2.48
62	2.23	75	2.33	105	1.80
63	2.12	76	2.62	106	1.50
64	1.88	77	2.30	103	1.37
65	2.03	88	1.28	107	1.85
66	1.80	89	1.10	108	1.20
67	1.68	90	0.77		
101	1.22	91	0.63		



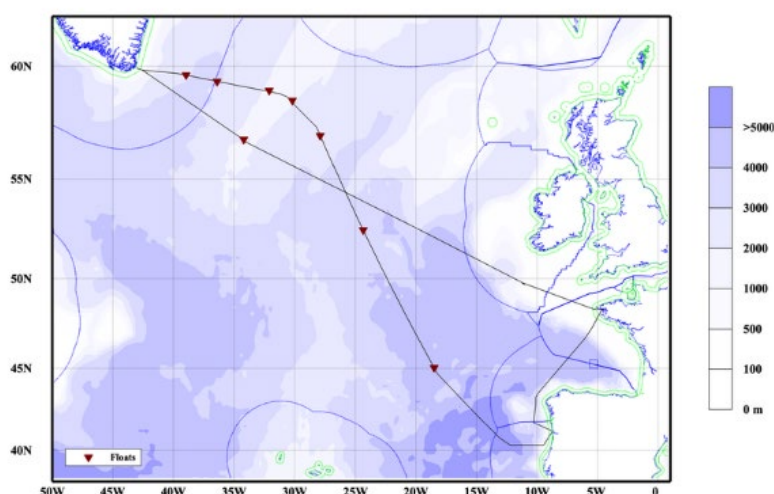
2.5.4. Floats

Drifting floats are dropped regularly as part of international Argo program. The tables below show the dates and positions of the drops.

Deployment Sheet	DEEP	PROVOR DO	PROVOR DO	PROVOR DO	PROVOR DO	DEEP
Float serial number	OIN-015-ARDP-12	P32826-16FR009	P32826-17FR002	P32826-17FR001	P32826-16FR003	AD1726-16FR009
WMO number	6901763	6902806	6902869	6902868	6902800	6902818
IMEI	300234063608700	300234064734340	300234065427810	300234065323820	300234064637950	300234064973360
Visual inspection of th efloat	ok	ok	ok	ok	ok	ok
Visual inspection of the ballast	ok	ok	ok	ok	ok	ok
Cruise name	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018
Ship name	Thalassa	Thalassa	Thalassa	Thalassa	Thalassa	Thalassa
Operator	S. Leizour	S. Leizour	S. Leizour	S. Leizour	S. Leizour	P. Le Bot
Magnet removal time	23/06/2018 02:57	27/06/2018 16:22	30/06/2018 06:54	01/07/2018 18:00	02/07/2018 20:25	04/07/2018 06:17
Float internal checks (valve and pump actions)	ok	ok	ok	ok	ok	ok
Deployment time	23/06/2018 03:25	27/06/2018 16:47	30/06/2018 07:16	01/07/2018 18:11	02/07/2018 20:25	04/07/2018 06:47
Latitude	45° 03.435 N	52° 31.052 N	57° 00.204 N	58° 32.711 N	58° 58.075 N	59° 21.885 N
Longitude	018° 30.249 W	024° 21.644 W	027° 52.867 W	030° 10.817 W	032° 05.940 W	036° 24.737 W
Ship speed	4	4	4	4	4	4
Wind speed	3	1	5	5	5	3
Sea state	moderate	calm	rough	rough	rough	moderate
Bathymetry	4516	3617	2763	1646	1689	3096
Comments	CTD 29	CTD 49	CTD 61	Asfar2 & CTD 101	Asfar4 & CTD 102	CTD 77

Deployment Sheet	DEEP	PROVOR DO	DEEP	DEEP	ARVOR / Asfar
Float serial number	OIN-015-ARDP-05	P32826-16FR005	AD2700-17FR001	AD2700-17FR002	AR20 20-16FR009
WMO number	6901601	6902802	6902881	6902882	
IMEI	300234062698030	300234064736030	300234065899860	300234065894570	
Visual inspection of th efloat	ok	ok	ok	ok	ok
Visual inspection of the ballast	ok	ok	ok	ok	ok
Cruise name	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018
Ship name	Thalassa	Thalassa	Thalassa	Thalassa	Thalassa
Operator	P. Le Bot	S. Leizour	S. Leizour	S. Leizour	S. Leizour
Magnet removal time	04/07/2018 06:15	05/07/2018 03:03	08/07/2018 15:08	08/07/2018 15:08	08/07/2018 15:16
Float internal checks (valve and pump actions)	ok	ok	ok	ok	ok
Deployment time	04/07/2018 06:47	05/07/2018 03:29	08/07/2018 15:33	08/07/2018 15:33	08/07/2018 15:33
Latitude	56° 21.885 N	59° 37.227 N	56° 47.734 N	56° 47.734 N	56° 47.734 N
Longitude	036° 24.737 W	038° 57.239 W	034° 10.735 W	034° 10.735 W	034° 10.735 W
Ship speed	4	4	4	4	4
Wind speed	3	5	5	5	5
Sea state	moderate	rough	rough	rough	rough
Bathymetry	3096	2924	2199	2199	2199
Comments	CTD 77	CTD 81	CTD 104	CTD 104	CTD 104

Figure 6: Float drop positions



The float is launched by hand, the ship advancing at slow speed.

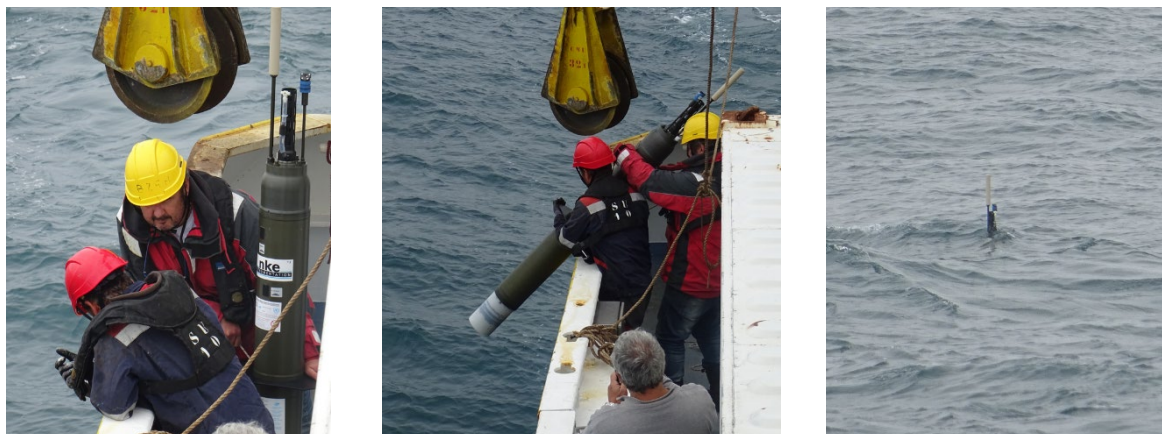


Figure 7: Preparing and launching a float

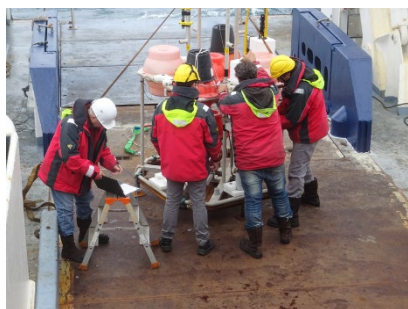
2.5.5. ASFAR Structure

During the cruise, two Asfar structures were recovered (Asfar 2 & Asfar 4) after one year at sea and two others were deployed (Asfar 3 & Asfar 1). Each structure consists of a frame with ballast, buoys, electronics and four drifting floats. The floats are released according to a predefined schedule. After being released, the frame is recovered on the surface by the ship (see fig. 8).



Figure 8: Recovery of an Asfar structure

The new structure is prepared on the main deck of the ship, installing the floats on the frame and testing the electronic, the frame is deployed when the ship arrived on the defined position (see fig. 9).



launching an ASFA

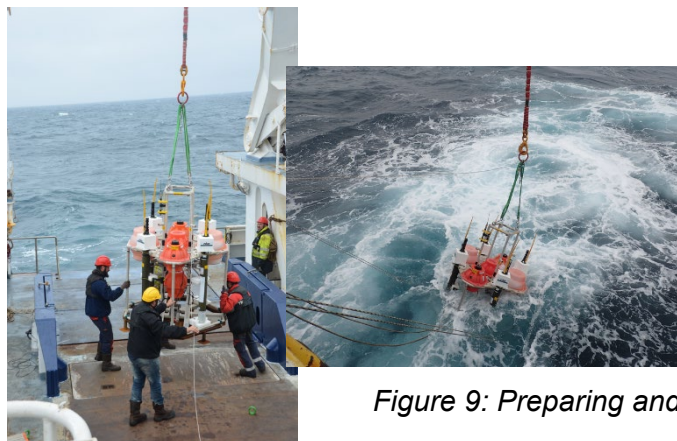


Figure 9: Preparing and

The red dots on the map below shows the geographical positions of moorings.

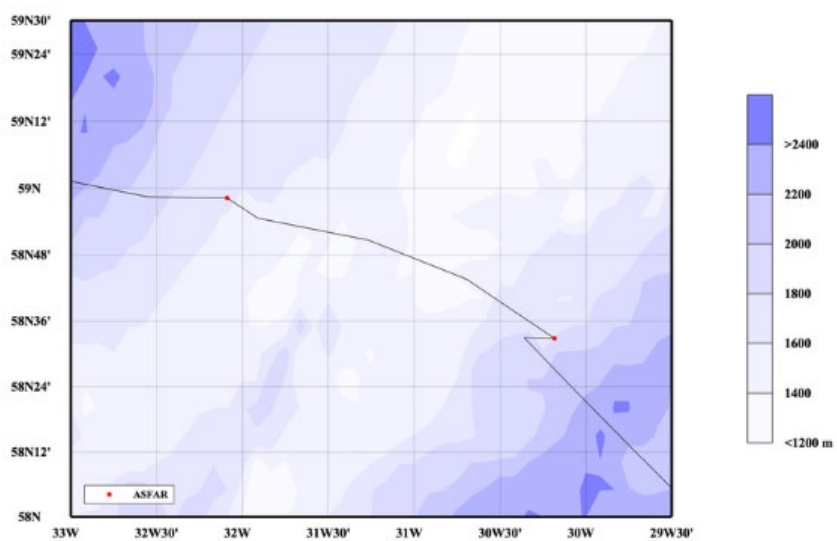


Figure 10: Asfar positions

2.5.6. Meteorological buoys

Five buoys are deployed during the cruise. The table below shows the date and weather conditions, the map shows the positions (red dots).

Deployment Sheet	SVP	SVP	SVP	SVP	SVP
IMEI	300234065705800	300234065705830	300234065705770	300234065705780	300234065705790
Cruise name	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018	OVIDE 2018
Ship name	Thalassa	Thalassa	Thalassa	Thalassa	Thalassa
Operator	S. Leizour	S. Leizour	S. Leizour	S. Leizour	S. Leizour
Deployment time	01/07/2018 10:25	02/07/2018 06:58	03/07/2018 06:15	03/07/2018 20:30	04/07/2018 22:15
Latitude	58° 32.900 N	58° 54.637 N	59° 02.245 N	59° 14.040 N	59° 33.389 N
Longitude	030° 21.494 W	031° 54.578 W	033° 11.728 W	035° 07.675 W	038° 19.647 W
Ship speed	4	4	4	4	4
Wind speed	4	4	5	2	3
Sea state	rough	rough	rough	moderate	moderate
Bathymetry	1585	1678	2282	2976	3039
Comments	CTD 67	CTD 70	CTD 72	CTD 75	CTD 80

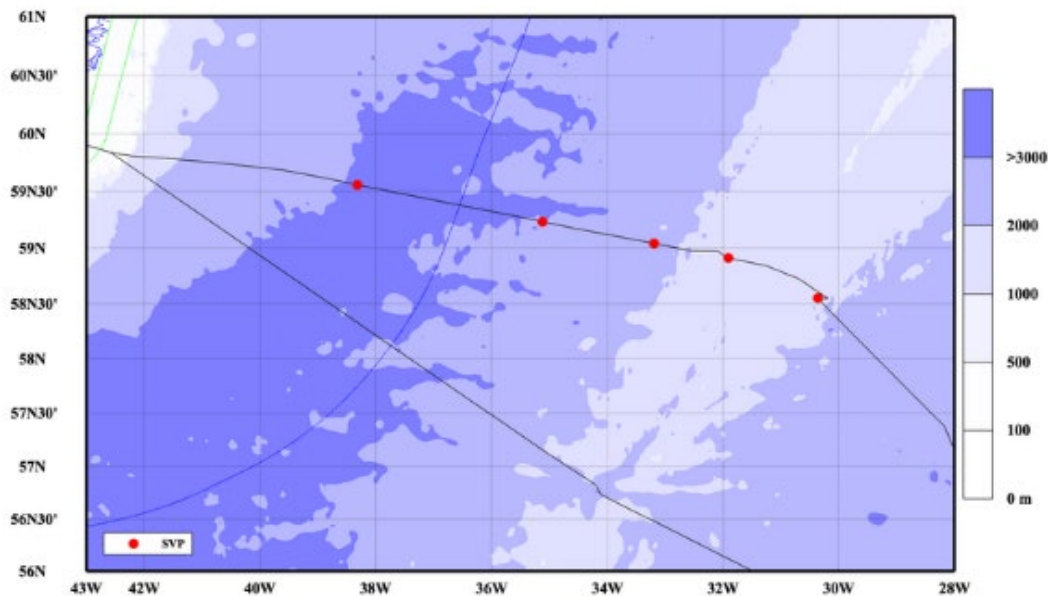


Figure 11: SVP launching

2.5.7. UCTD

The UCTD (Underway Conductivity Temperature Depth) instrument allows to realise inexpensive profiles of temperature and salinity from underway vessels.
 9 profiles were carried out framed by CTD (st 201 & 209) and XBT (21 & 22) measurements.

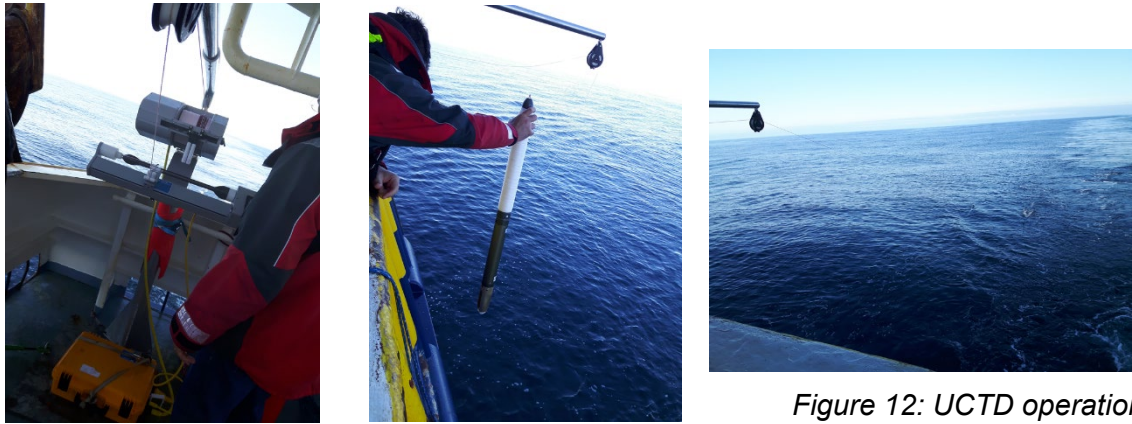
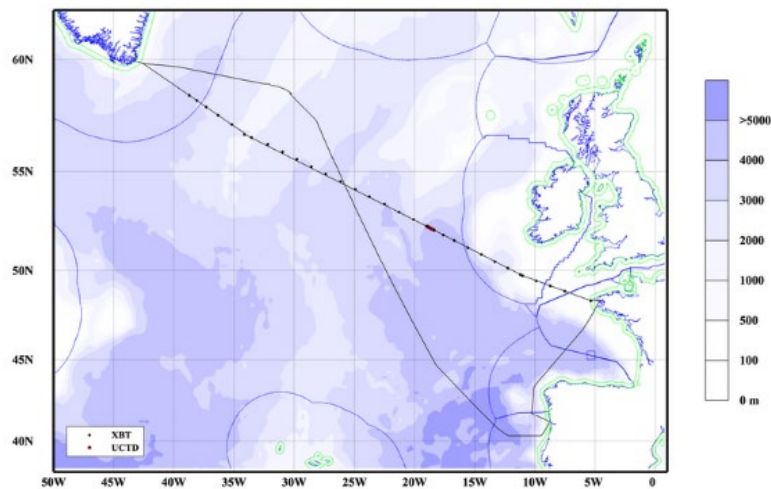


Figure 12: UCTD operations

The table below shows the different UCTD profiles and the map the positions of UCTD and XBT.

Operation	Date	Time	Latitude	Longitude	Bathy. (m)	Bottom speed (nd)	Headind (deg)
UCTD cast 1	11/07/2018	05:04:00	52.300903	-18.9796401	3893.24	1.96	118.79
UCTD cast 2	11/07/2018	05:28:00	52.292899	-18.9561717	3893.24	4.12	113.01
XBT 21	11/07/2018	05:33:36	52.290218	-18.9466561	3893.24	4.11	113.18
UCTD cast 3	11/07/2018	05:50:00	52.281953	-18.9186338	4305.09	4.26	114.65
UCTD cast 4	11/07/2018	06:24:00	52.263561	-18.8591287	4300.40	5.95	119.6
UCTD cast 5	11/07/2018	06:48:00	52.244285	-18.8018949	4316.79	6.13	118.5
UCTD cast 6	11/07/2018	07:12:00	52.227094	-18.7471183	4344.75	5.82	117.58
UCTD cast 7	11/07/2018	07:37:00	52.20695	-18.6828202	4344.75	8.14	117.21
UCTD cast 8	11/07/2018	08:05:00	52.177936	-18.5931354	4369.5	8.2	116.14
UCTD cast 9	11/07/2018	09:03:00	52.120716	-18.4130427	4392.30	5.76	118.86
XBT 22	11/07/2018	09:13:05	52.11368	-18.3909628	4392.30	5.47	116.99



2.5.8. XBT

The table below lists the different profiles (see the map at the page before).

XBT #	Bottom	Latitude	Longitude	Date	Time
1	3210	58.4732	-38.7116	07/07/2018	18:12:52
2	3182	58.2462	-38.083	07/07/2018	20:53:41
3	2923	57.9628	-37.3052	08/07/2018	00:51:14
4	2622	57.6034	-36.3248	08/07/2018	04:55:33
5	2367	57.1793	-35.181	08/07/2018	08:55:46
6	2201	56.735	-34.1082	09/07/2018	02:49:10
7	1788	56.5876	-33.5279	09/07/2018	04:52:14
8	2059	56.2774	-32.1894	09/07/2018	08:56:31
10	3019	55.9338	-30.9493	09/07/2018	12:55:24
11	2944	55.5864	-29.7577	09/07/2018	16:55:36
12	2987	55.2361	-28.5658	09/07/2018	20:57:04
14	3212	54.8821	-27.373	10/07/2018	00:54:54
15	3520	54.5228	-26.1731	10/07/2018	04:56:49
16	3279	54.1491	-24.936	10/07/2018	08:58:55
17	3592	53.7906	-23.7595	10/07/2018	12:56:36
18	4002	53.4103	-22.5212	10/07/2018	17:00:08
19	3764	53.032	-21.3066	10/07/2018	20:57:44
20	2712	52.6524	-20.094	11/07/2018	00:57:17
21	4385	52.2929	-18.9561	11/07/2018	05:22:56
22	4447	52.1095	-18.3779	11/07/2018	09:13:46
23	4502	51.8676	-17.6183	11/07/2018	12:56:44
24	4639	51.5794	-16.7209	11/07/2018	15:59:33
25	3994	51.2059	-15.556	11/07/2018	19:59:53
26	926	50.8479	-14.4673	11/07/2018	23:55:10
27	2573	50.4707	-13.3187	12/07/2018	04:07:50
28	2183	50.1231	-12.2683	12/07/2018	07:56:12
29	392	49.7818	-11.215	12/07/2018	11:51:49
30	253	49.715	-11.0257	12/07/2018	15:54:55
31	148	49.4422	-9.8828	12/07/2018	19:55:35
32	152	49.1714	-8.7434	12/07/2018	23:51:52
33	145	48.8818	-7.5333	13/07/2018	03:54:13
34	109	48.3552	-5.3354	13/07/2018	12:01:11



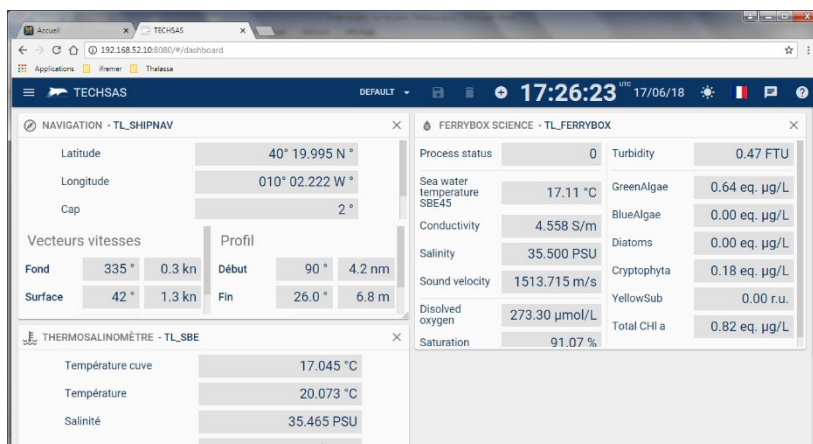
2.5.9. Ferrybox

Recently a ferrybox is installed on board Thalassa, we took the opportunity of the cruise to compare ferrybox measurements (Salinity and Oxygen) and chemical analysis realised on board in our chemical container.

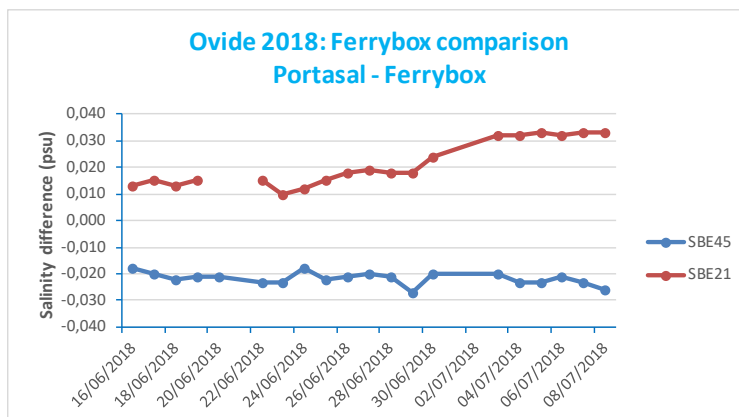


Figure 13: Thalassa ferrybox

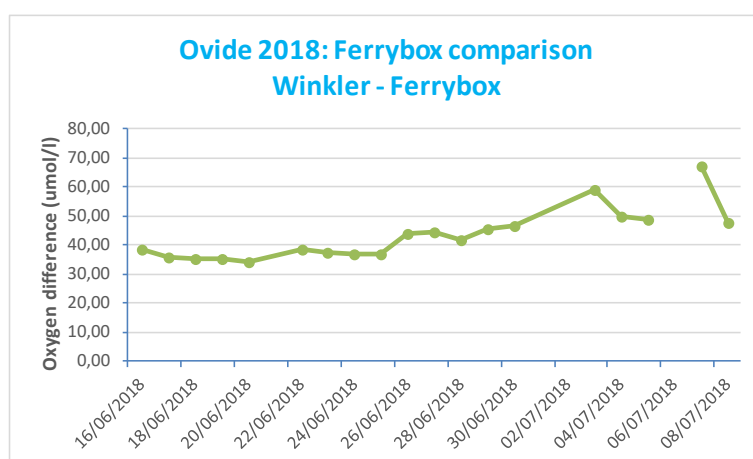
Almost every day, we took salinity and oxygen samples in the ferrybox circuit, samples that were analysed aboard the next day. The real time datas from ferrybox are retrieved on the SDIV screen.



The plot on the right shows the differences between samples taken in the ferrybox circuit and analysed on board with a Guildline salinometer and the real time measurement of ferrybox.



The plot on the right shows the differences between samples taken in the ferrybox circuit and analysed on board with a Metrohn titrino and the real time measurement of ferrybox.



3. CTD-O₂ measurement calibration

3.1. CTD-O₂ data acquisition

For hydrology acquisition, we used our LOPS frame with 28 bottles of 8 liters and a SBE911+ CTD. The frame is also equipped with 2 LADCP, electronic reversing sensors and altimeter. The control of the CTD is carried out from our computer container.



Figure 14: LOPS CTD frame

3.1.1. Technical summary

The same Seabird 911+ CTD probe (s/n. 802) was used throughout the cruise. It was equipped with two sets of T, C, and O₂ sensors. We found also on the frame, 2 LADCP (150 kHz and 300 kHz), 4 SIS reversing sensors (Pressure and Temperature) and a Valeport altimeter (500 kHz) working a frequency significantly different than that of the ADCP (frequency: 150 and 300 kHz).

The CTD sensors used are as follows:

	Primary sensors	Secondary sensors
Temperature (SBE3+)	s/n 4596	s/n 4595
Conductivity (SBE4c)	s/n 3088	s/n 3039
Oxygen (SBE43)	s/n 1402	s/n 526

Electronics mounted on the LOPS frame:

PASH 6000 Rosette, top	s/n 462	PASH 6000 Rosette, bottom	s/n 461
IXSEA Pinger	s/n 530	Valeport altim. (s/n 59678)	
Downward-looking ADCP:	s/n 23909	RDI 150 kHz WorkHorse	
Upward-looking ADCP:	s/n 12492	RDI 300 kHz WorkHorse	
SIS sensors	BT3	BT5	
reversing pressure meter	s/n 6660	s/n 6661	RPM 6000 X
reversing thermometer	s/n 1726	s/n 1751	RTM 4002 X

The CTD casts start with a round trip at a depth of 30 m to remove the air bubbles in the 2 circuits of the sensors. The CTD profile then begins from the surface down to a distance of about 15 meters above the bottom. At each cast, the electro-mechanical cable is unwound and wound at a speed of 1 meter per second (0.5 m/s for the first 100 meters).

The downcast of the probe is monitored on a screen with the Sepia software that traces the echoes of the pinger mounted on the frame, allowing a continuous positioning of the probe relative to the bottom. The final bottom approach is performed using the altimeter, as soon as it has 'latched' the bottom at a distance of about 90 m.

During the upcast, the frame is stopped at predefined levels of closure of the 28 sampling bottles.

In addition to these instruments, two ADCP (Acoustic Doppler Current Profiler) 150 and 300 kHz WorkHorse are mounted on the frame to obtain vertical profiles of current velocity, a downward-looking (LOPS s/n 23909, master) and an upward-looking (LOPS s/n 12492, slave).



Figure 15: Upper LADCP on CTD frame

3.1.2. Technical problems during the cruise

- 11/06 Problem with the ship crane, repaired by the crew.
- 13/06 Problem with gyrocompass (SADCP), repaired by the crew.
- 22/06 Problem with the LADCP 150 kHz and 300 kHz. We changed the both.

At the end of the cruise, the both oxygen sensors were very noisy.

3.1.3. Data processing

The CTD-O₂ sensor signals are transmitted to the LOPS Hydrology acquisition system. This system is designed to run on a PC running Windows 7 for acquisition, visualization and preprocessing with the manufacturer's software (SBE seasave).

This system allows the real time visualization of the different parameters measured and calculated on the profiles, while controlling the quality of the signal transmitted by the probe. All of the data transmitted by the probe, at the rate of 24 cycles per second, is saved on a disk.

On board, the probe data were pre-calibrated with Seabird post-processing software and the LOPS calibration suite developed in Matlab (CADHYAC).



3.1.4. Detailed maps of the cruise

Figure 16 shows the geographical position of the CTD stations, with 3 zooms for special areas: Portugal shelf, Greenland shelf, Charlie Gibbs fracture zone. The Ovide section includes stations 1 to 98.

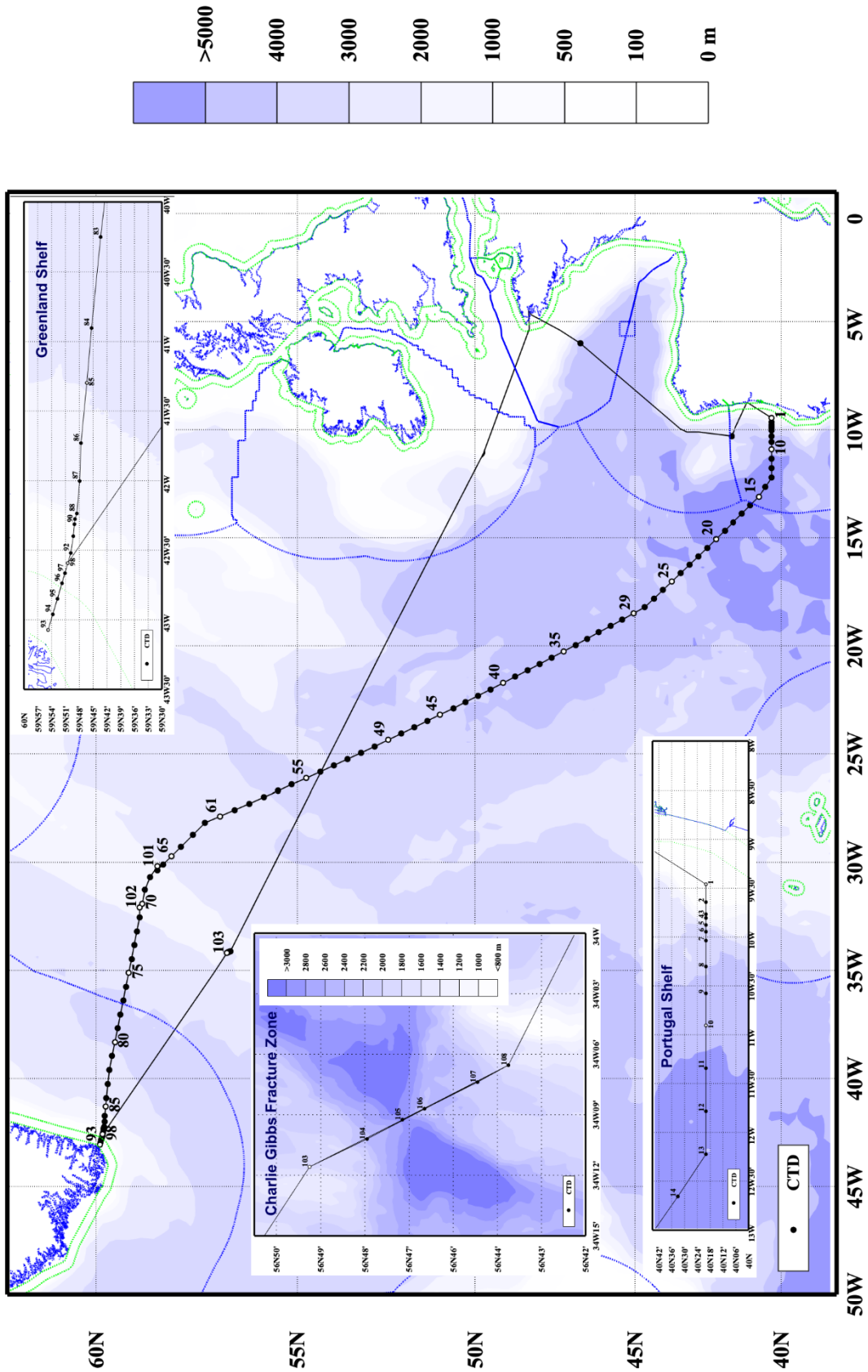


Figure 16: Detailed map of the cruise

The following picture shows all sampling levels for the Ovide section.

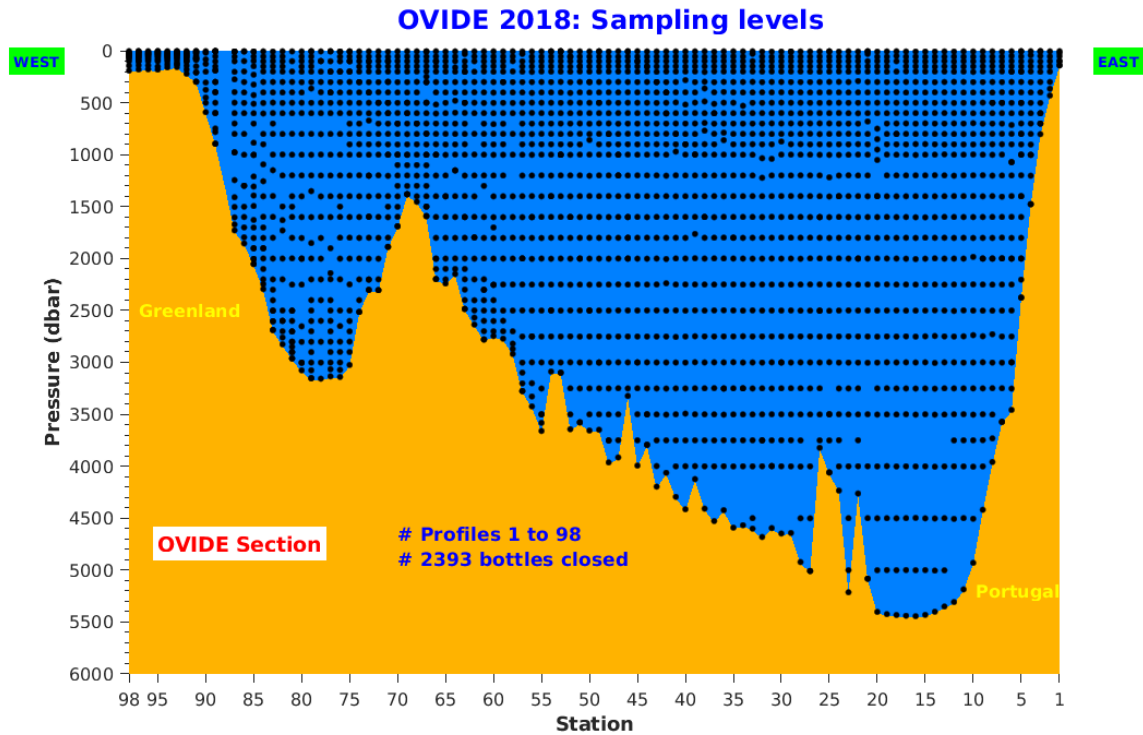


Figure 17: Synoptic chart indicating the sampling levels for CTD

No sampling at station 88 for Ovide section.
No sampling for stations 101 to 103, 105, 106, 108.

3.2. Sampling at the sea

The LOPS CTD frame have 28 bottles of 8 liters when the frame is equipped with two LADCP, 32 otherwise.

The bottles are closed during the upcast of the probe after stopping at the sampling levels. We wait 30 seconds before closing the bottle and the CTD signal is recorded during 8 seconds to generate bottles files. These levels are distributed over the full height of the profile in order to sample all the water masses and the standard levels.



Figure 18: Sampling after CTD profile

As soon as they reach the surface, the samples were taken from each bottle for the numerous analyses performed on board, in the order recommended by the WOCE instructions. The bottles were sampled according to their chronology from 3 to 30, which means from the deepest to the shallowes levels. The salinity and oxygen samples will be used to calibrate the salinity and dissolved oxygen CTD profiles.

During the cruise, 2393 bottles were closed, 2203 salinity analyses and 2196 oxygen analyses were performed.

To estimate the error of the analytical methods, replicates were conducted at some casts by triggering the closure of two bottles at the same sampling level. We thus have 86 salinity and 88 oxygen replicates.

The plot (fig 17) shows the sampling levels for each CTD profile.

3.3. Analysis of salinity and dissolved oxygen samples

All the salinity and dissolved oxygen samples are analysed on board, during the cruise, in the LOPS chemical analysis container, which has Metrohm 798 titrinos and Guildline Portasal salinometers. Air conditioning allows regulation of the room temperature ($20\text{ }^{\circ}\text{C}$ at $\pm 0.5\text{ }^{\circ}\text{C}$).

These analyses will serve to adjust CTD salinity and oxygen profiles.

The daily standardization of the measuring instruments (salinometers and tritrinos) was performed by Pierre Branellec, all salinity analyses were performed by Thierry Reynaud, and oxygen analyses by Caroline Le Bihan.

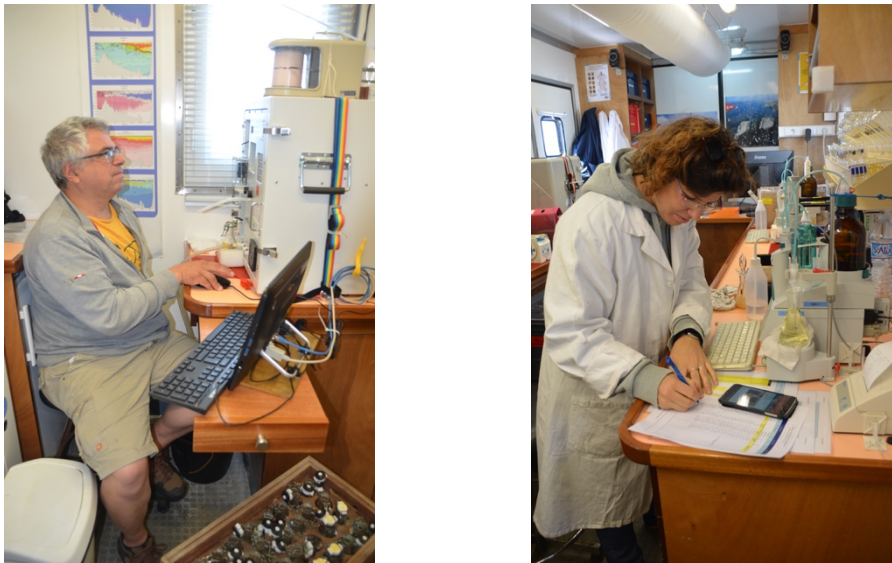
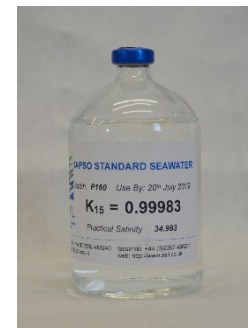


Figure 19: Salinity and Oxygen analyses in the LOPS chemistry container

3.3.1. Standardization of salinometers

All salinity measurements taken during the OVIDE cruise were performed on the same Portasal salinometer (s/n: 71420).

This salinometer was standardized using one batch of standard seawater bottles (IAPSO Standard Seawater): batch P160 (expiration date: 20th July 2019). The standardization was verified every morning and after analysis of two casts (56 samples). The standardization results were recorded on salinity analysis sheets. The salinometer was very stable throughout the cruise and the standardization adjusted only rarely.



was

Figure 20: Standard seawater

3.3.2. Salinity analysis

The samples are collected after three successive rinses in 125 ml bottles, which water tightness is guaranteed by a rubber seal. As soon as the collection is finished, the samples are placed in the analysis container with a controlled temperature set to 20 °C (± 0.5 °C). The samples are analyzed 20 to 30 hours after collection to allow them to achieve a thermal equilibrium.

The salinity of the samples is determined according to the equation PSS 78 (UNESCO 1981). Throughout the cruise, the temperature of the thermostat bath is fixed at 21 °C.

For each sample, three successive rinses of the cell are performed before making three readings separated each time by a rinse.

The salinometer Guildline was connected to a PC and all the analysis were saved directly on computer with a new software 'easysal' developed by us under python language.

During the cruise, we analyzed 2203 salinity samples.

Figure 21 shows the differences in salinity obtained on the replicates validated by the calibration. They were performed at sampling levels between the surface and the bottom and were collected from profile 1 to profile 107. The differences between two salinity measurements were studied for 86 validated replicates: figure 22 shows the histogram.

We observe that, in 90.7 % of the cases, the difference in salinity measured on the two bottles is less than 0.001 and in 100.0 % of the cases it is less than 0.003.

The standard deviation is 0.0006 for all validated replicates, and considering only the replicates performed at a pressure greater than 980 dbar, the standard deviation is 0.0007.

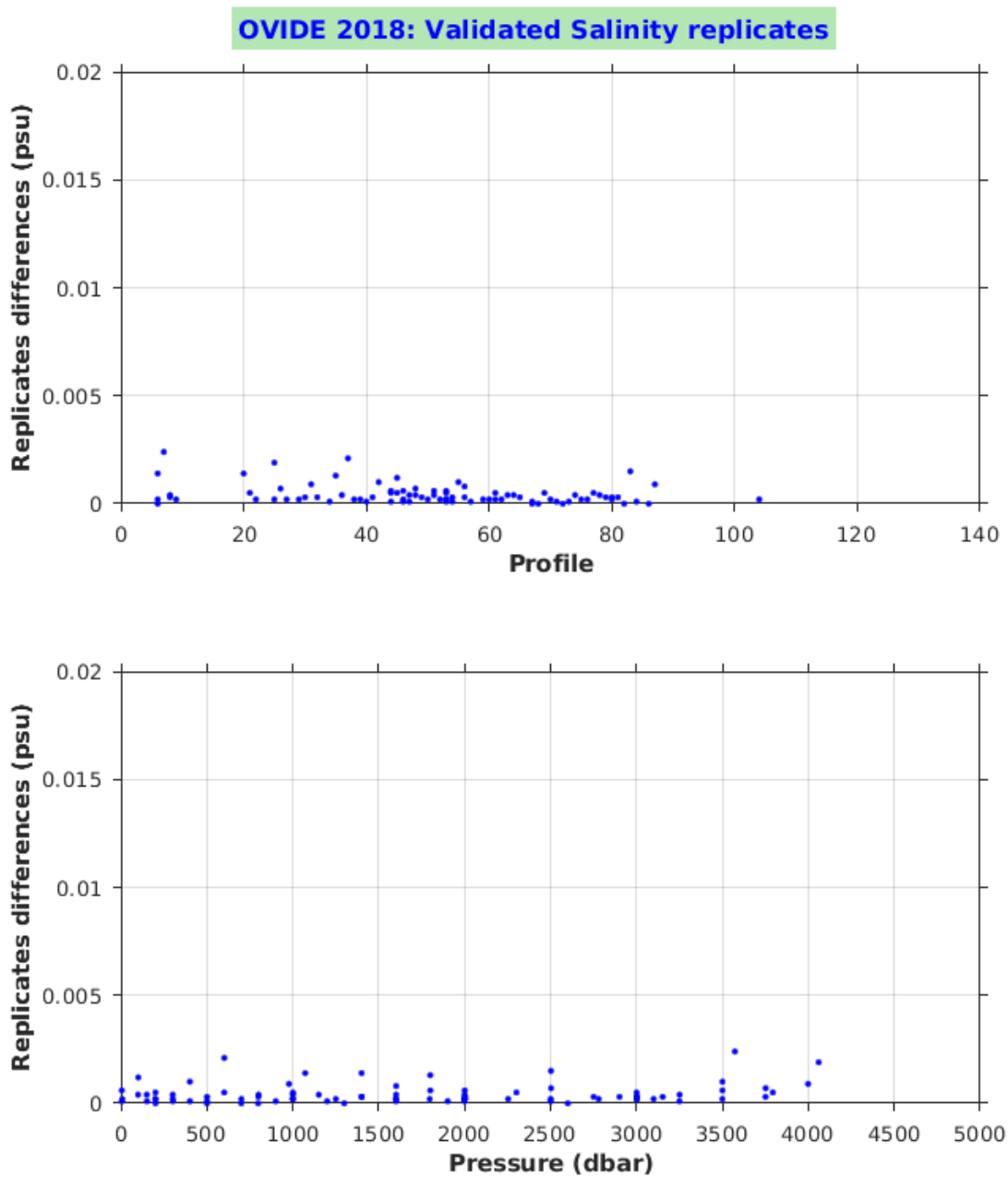


Figure 21: Differences in salinity between two bottles closed at the same level:
a) as a function of the profile number of the replicates,
b) as a function of the pressure at which the replicate was sampled.

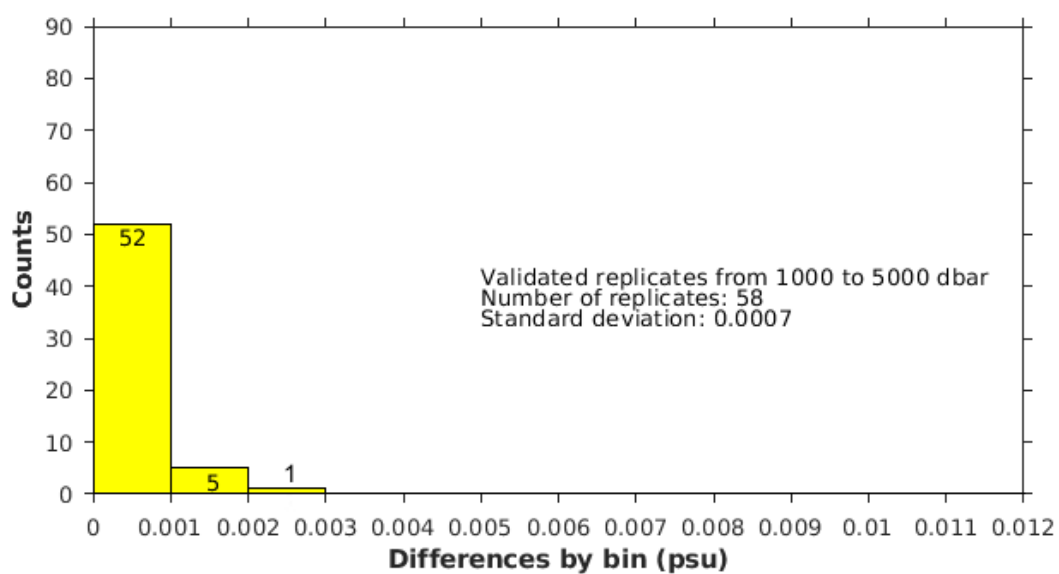
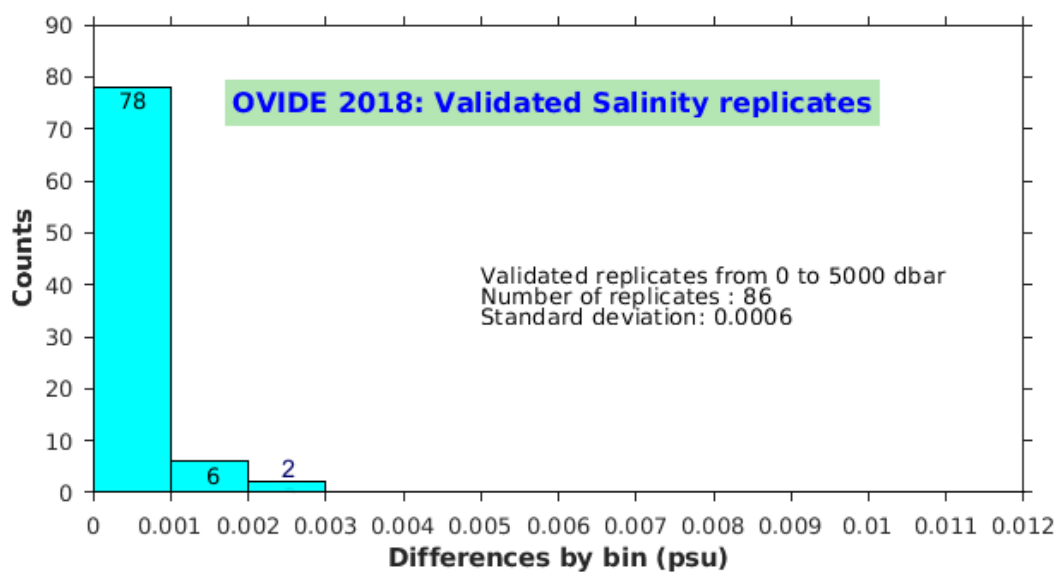


Figure 22: Histogram of the Salinity differences on the replicates:
 a) for the 86 validated replicates of the cruise,
 b) for the 58 validated replicates sampled at a pressure greater than 980 dbar.

3.3.3. Dissolved oxygen

To determine the dissolved oxygen concentration of seawater, water samples are collected in 120 ml bottles with a plunger cap. After filling the bottle, the temperature of the sample is recorded during overflowing a volume of water three times equivalent of the bottle.

Two reagents (MnCl_2 and NaOH-NaI) are then added successively and the bottle is capped. Finally, the bottle is shaken for 30 seconds to capture the oxygen in the seawater in the precipitate. Once all the samples are taken, the bottles are turned over one by one to suspend the precipitate another time.

The samples are stored in the laboratory container at a temperature of 20 °C and analyzed after a delay of 4 to 24 hours.

The operating conditions and the analysis method conform to the recommendations of WOCE (WOCE Operations Manual, 1991). After acidification in the sampling bottle, the liberated iodine is dosed with a solution of sodium thiosulfate which normality is of the order of 0.02 N. Its normality is determined daily, before the start of the analysis series, by comparison to a potassium iodate solution, which normality, obtained by weighing, is 0.019998.

The dosage is controlled by a 798 Metrohm titrino, a platinum titrode measures the reaction potential and a 20 ml burette delivers the sodium thiosulfate. The volume of thiosulfate necessary for the reduction of the iodine is subtracted from the automatic determination of the inflection point on the potential curve at equivalence.

The titrino was connected to a PC and all the analysis were saved directly on computer with a new software 'easytitrino' developed by us under python language.

During the cruise, we analysed 2196 oxygen samples.

Figure 23 shows the differences obtained between the measurements performed on the 82 validated replicates and figures 20 and 21 show the histograms (ml/l and $\mu\text{mol/kg}$).

For all the replicates collected between the bottom and the surface and collected from profile 1 to profile 107, 56.8.% of the differences are less than 0.01 ml/l and 88.6 % are less than 0.02 ml/l for a standard deviation of 0.016 ml/l (0.72 $\mu\text{mol/kg}$). By eliminating the levels between the surface and 980 dbar, the standard deviation is 0.014 ml/l (0.61 $\mu\text{mol/kg}$).

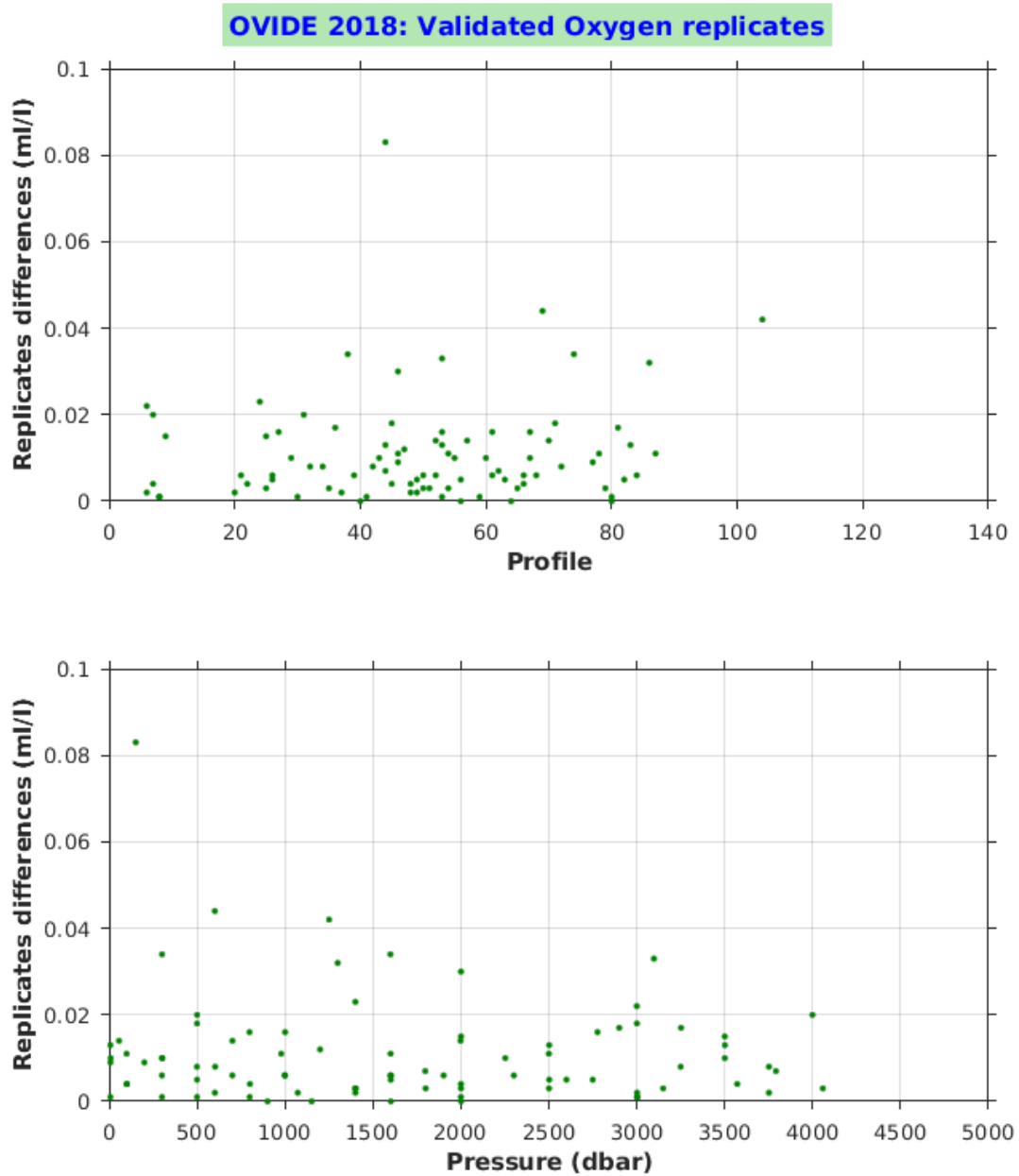


Figure 23: Differences in oxygen between two bottles closed at the same level:
 a) as a function of the profile number of the replicate,
 b) as a function of the pressure at which the replicate was sampled.

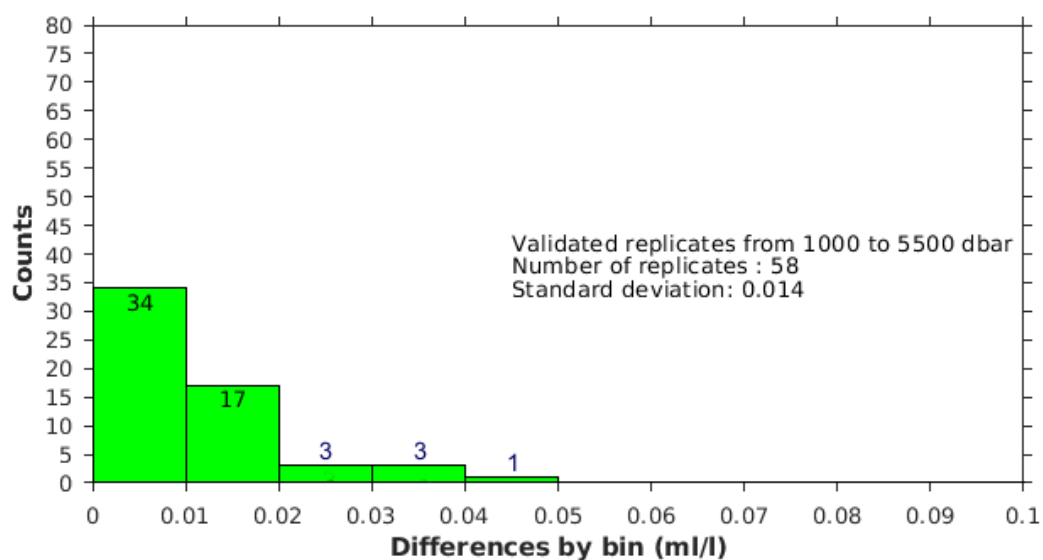
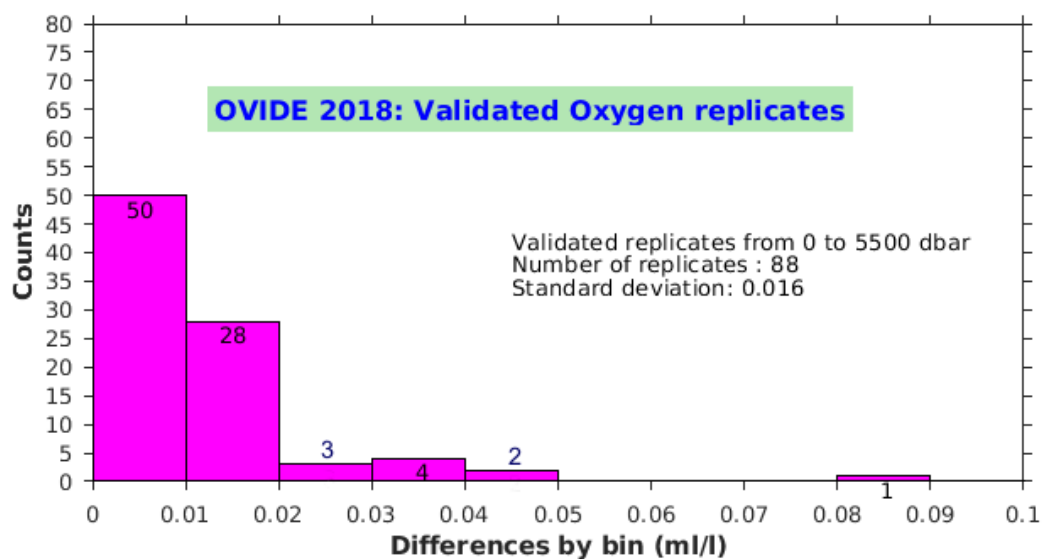


Figure 24: Histogram of the Oxygen differences (ml/l) of the replicates:
 a) for the 88 validated replicates of the cruise,
 b) for the 58 validated replicates sampled at a pressure greater than 980 dbar.

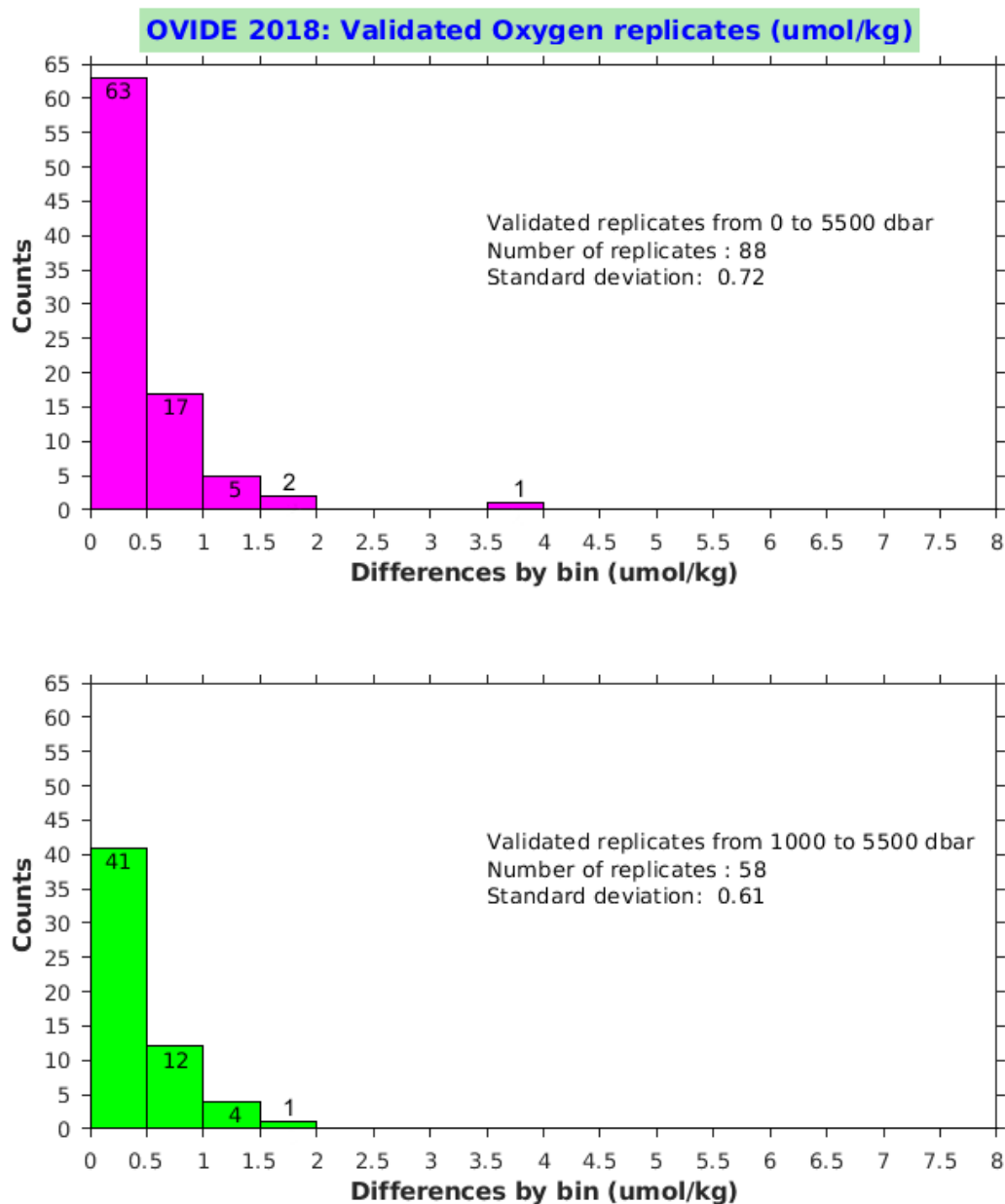


Figure 25: Histogram of the oxygen differences ($\mu\text{mol/kg}$) of the replicates:
 a) for the 88 validated replicates of the cruise,
 b) for the 58 validated replicates sampled at a pressure greater than 980 dbar.

3.4. Data preparation before calibration

3.4.1. Data cleaning with Hydro_net

The Hydro_net software is first used to correct aberrant pressure measurements in the .cnv files. Then, all measurements are cleaned in using to thresholds and median deviation tests.

The values chosen for OVIDE are shown in the following figure. Hydro_net is applied to the probe measurements after decoding by datcnv to create ov18st*T1.cnv files.

Figure 1: Chaîne Hydrologie : Mise au propre des données avant calibration

Information générale Nettoyage des données Hysteresis Regeneration des fichiers .ros Autres ▾

Nettoyage

Selection du repertoire de donnees
 Rep...

Selection du repertoire resultat
 Rep... Verificatio...

Choix de l'extension
 File... Liste des fichiers

Pause inter_fichier Sauvegarde figures (fig) ▾

Seuillage

	Pression	Temperature	Conductivite	Oxygene
Min.	<input type="text" value="0"/>	<input type="text" value="-5"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Max.	<input type="text" value="7000"/>	<input type="text" value="30"/>	<input type="text" value="70"/>	<input type="text" value="5"/>

Ecart a la mediane

	Pression	Temperature	Conductivite	Oxygene
Taille de la fenetre	<input type="text" value="20"/>	<input type="text" value="6"/>	<input type="text" value="10"/>	<input type="text" value="10"/>
Nb std	<input type="text" value="2.8"/>	<input type="text" value="3"/>	<input type="text" value="2.8"/>	<input type="text" value="2.8"/>
Ecart min	<input type="text" value="1.5"/>	<input type="text" value="0.05"/>	<input type="text" value="0.01"/>	<input type="text" value="0.01"/>
Ecart max	<input type="text" value="10"/>	<input type="text" value="0.4"/>	<input type="text" value="0.4"/>	<input type="text" value="0.4"/>
Iteration	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="3"/>

Figure 26: Hydro_net options used for OVIDE

3.4.2. Correction for hysteresis

The principle of hysteresis correction on the SBE 43 sensor from Seabird is described in the application note SBE 64-3 and was coded in Matlab.

The hysteresis correction depends on three coefficients: H_1 , H_2 and H_3 . The default values of these coefficients are provided by Seabird. However, the coefficients H_1 and H_3 can be adjusted by minimizing the difference between the downcast and upcast profiles (see Bradley et al., 2010).

Using Hydro_net, new coefficients were estimated for OVIDE:

For stations 1 to 108:

	Primary sensor	Secondary sensor
H1	-0.0230	-0.0250
H2	5000	5000
H3	1750	1780

The results of the correction wasn't satisfactory, so we decided to set H_3 to 1450 to recalculate H_1 for secondary sensors.

	Primary sensor	Secondary sensor
H1	-0.0230	-0.0250
H2	5000	5000
H3	1750	1450

The resulting files are called ov18st*T1_trait_hyst.cnv.

3.4.3. Bottle file

After cleaning and correcting the pressure, temperature, conductivity and dissolved oxygen profiles from the probe (referred to as CTDO₂ profiles in the following), we create a new bottle file with CTDO₂ values corrected. The chemical values do not change.

3.4.4. Processing with Seabird routines

Seabird developed a bunch of routines in its Seasoft V2 (SBEDataPostprocessing) software suite in order to improve the recorded probe measurements. The sequence of programs chosen by the LOPS is the result of a study performed on the 2008 CTD cruises (see C. Kermabon, M. Arhan, "*Validation et Réduction des données de la sonde 9+*", June 2008). The Seabird programs are applied on the measurements output from Hydro_net. The input files in hydro_net are the previously created files: ov18*.T1_trait_hyst.cnv.

Seabird processing

Filter: filters the pressure measurements.

Low pass filter B, time constant (s) = 0.15

Alignctd: applies a delay of 4 seconds on the primary and secondary oxygen measurements.

Celltm: takes into account the effect of the thermal mass of the conductivity cell using a recursive filter.

Thermal anomaly amplitude (alpha) = 0.03

Thermal anomaly time constant (1/beta) = 7

Loopedit: flags the cycles compared to the speed of the probe.

Minimum velocity type = fixed minimum velocity

Minimum CTD velocity (m/s) = 0

Remove surface soak not selected

Exclude scans marked bad selected

Derive: new calculation of O2 ml/l and salinity.

At the end, the corrected files are named ov18*_T5_final.cnv.

3.5. Calibration of Pressure measurement

The SBE9+ probe is equipped with a Paroscientific digiquartz pressure sensor, which accuracy is claimed by the manufacturer to be 0.015 % of the full scale (10000 psi), or in our case ± 1.5 psi or ± 1.0 dbar, the claimed resolution being 0.001 %, i.e. 0.1 psi or 0.07 dbar.

All the sensors were calibrated by Seabird before the cruise to have new coefficients.

The pressure sensor was also calibrated before and after the cruise at the IFREMER Laboratory of Metrology, authorized by the "Bureau National de Métrologie" (B.N.M.). The sensor is connected to a Desgranges and Huot bench-top balance, which delivers a reference pressure with a maximum error of 0.75 dbar at the 6000 dbar level.

3.5.1. Calibration of the sensor under laboratory conditions at 20 °C

Three cycles of increasing and decreasing pressure, by successive increments of 600 dbar, from 0 to 6000 dbar, are performed at laboratory temperature, i.e., 20 °C (± 1 °C). The results obtained are shown in figure 23, in the form of mean differences between the reference pressure delivered by the bench-top balance and the equivalent pressure indicated by the sensor in the increasing pressure cycles (downcast profile of the probe) and decreasing pressure (upcast profile).

The distribution of points resulting from the pre- and post-cruise calibrations can be corrected by a polynomial of degree 3. These results highlight a good stability of the sensor: compared to the polynomial correction, the maximum difference observed (pre-and post-cruise; downcast and upcast) is ± 0.49 dbar at 20 °C.

3.5.2. Influence of static temperature

Due to a lack of time and because previous calibrations suggested that the temperature does not influence the pressure sensor, we decided to skip this test.

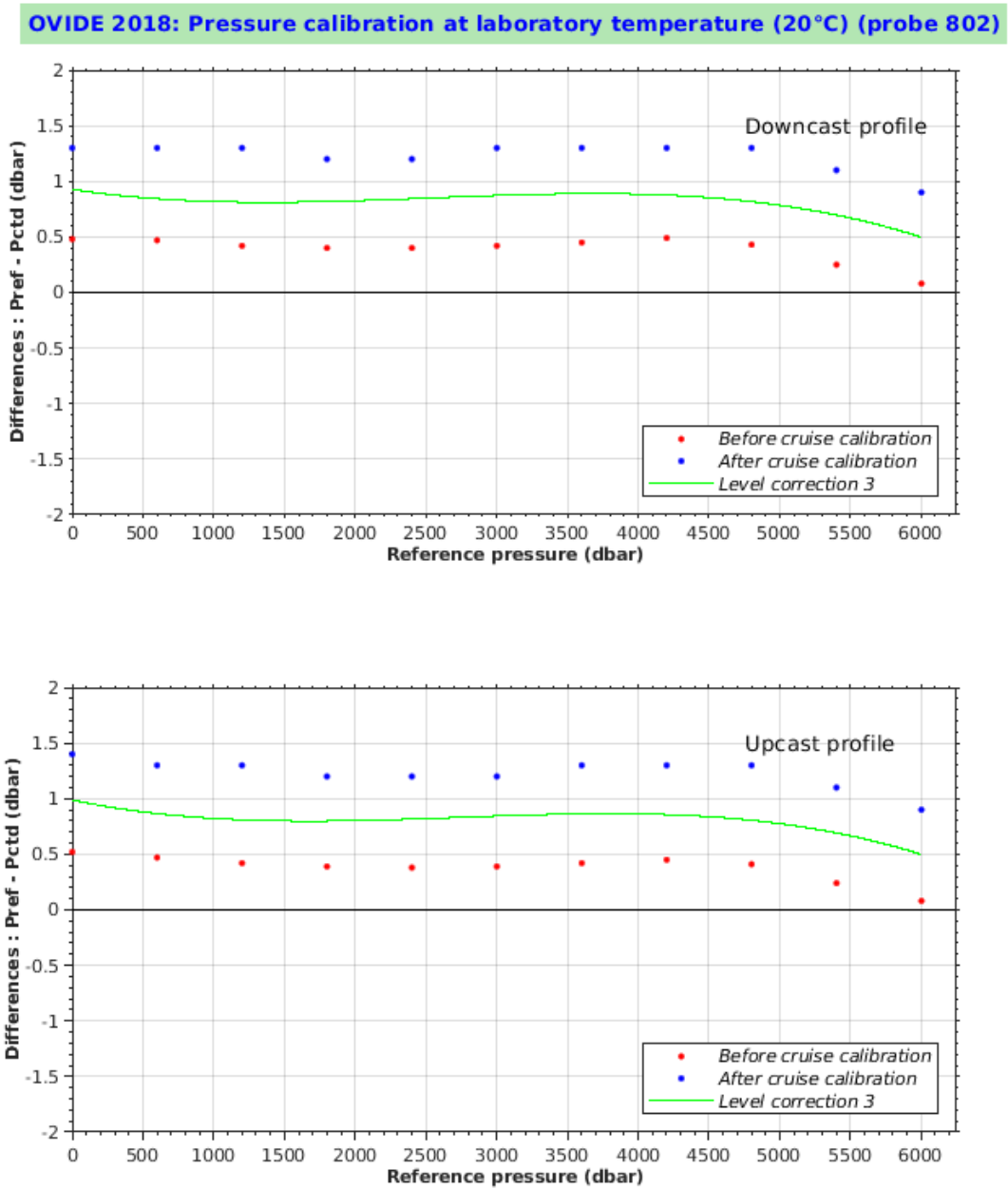


Figure 27: Pressure calibration at 20 °C

Distribution of the mean differences, every 600 dbar, between the reference pressure and the pressure indicated by the Seabird sensor during pre-and post-cruise calibrations at laboratory temperature (20 °C):

- a) increasing pressure cycles (downcast profile),
- b) decreasing pressure cycles (upcast profile).

The curve of degree 3 that reduces the differences is represented.

3.5.3. Influence of the dynamic temperature effect

The crossing of the thermocline, during the downcast and the upcast, causes an abrupt variation in temperature. This thermal shock, called the dynamic temperature effect, is simulated in the laboratory in order to study the behavior of the pressure sensor, which depends mainly on the quality of its insulation.

The sensor was submitted to a series of thermal shocks by suddenly immersing the probe, after a certain period at a given temperature, in a hotter or colder bath as appropriate. The parameters transmitted by the sensor (pressure, in situ temperature and internal temperature of the pressure sensor) were recorded during a time period sufficiently long to study the behavior of the sensor after this phenomenon (see Technical Note LPO-GT09-01, P. Branellec, M. Hamon).

These experiments allow us to conclude that the response of the Paroscientific pressure sensor is not influenced by this thermal shock. Consequently, no dynamic correction is made.

3.5.4. Correction of the pressure measurement on the CTD profiles

Taking into account the results of the laboratory calibrations, the pressure sensor of LOPS probe (s/n 802) is corrected by a pressure polynomial of degree 3 (fig. 27).

Finally, we can consider that the uncertainty in the pressure measurement is of the order of the sensor accuracy: 1 dbar.

3.5.5. Validation of the CTD pressure measurement

Monitoring of the pressure sensor during the cruise

On the CTD, we had only one pressure sensor, so we followed the response of the CTD pressure sensor, during the cruise, by different ways. Firstly, we noted the value of the sensor in the air (Hz) before each station (see fig. 28), at the beginning of the downcast (dbar) and at the end of the upcast (dbar), secondly the frame is equipped with reversing pressure meter sensor (SIS RPM 6000X) on bottle 3 (P₆₆₆₀) and bottle 5 (P₆₆₆₁) and we compared the value of the CTD sensor and SIS sensor at the bottom (see fig. 29) to detect any drift.

The SIS pressiometers have not been calibrated since we bought them, so we followed relative relation.

Before each cruise, our CTD were calibrated by Seabird. Independently, before and after each cruise our CTD were calibrated in the Ifremer Metrology laboratory. We studied pressure and temperature. The plot hereafter shows the respective responses.

Monitoring of the pressure sensor over the time

Before and after each cruise, our pressure sensor, on the both CTD, was calibrated at Ifremer. The figure 30 shows the results of all calibrations since we acquired the CTD.

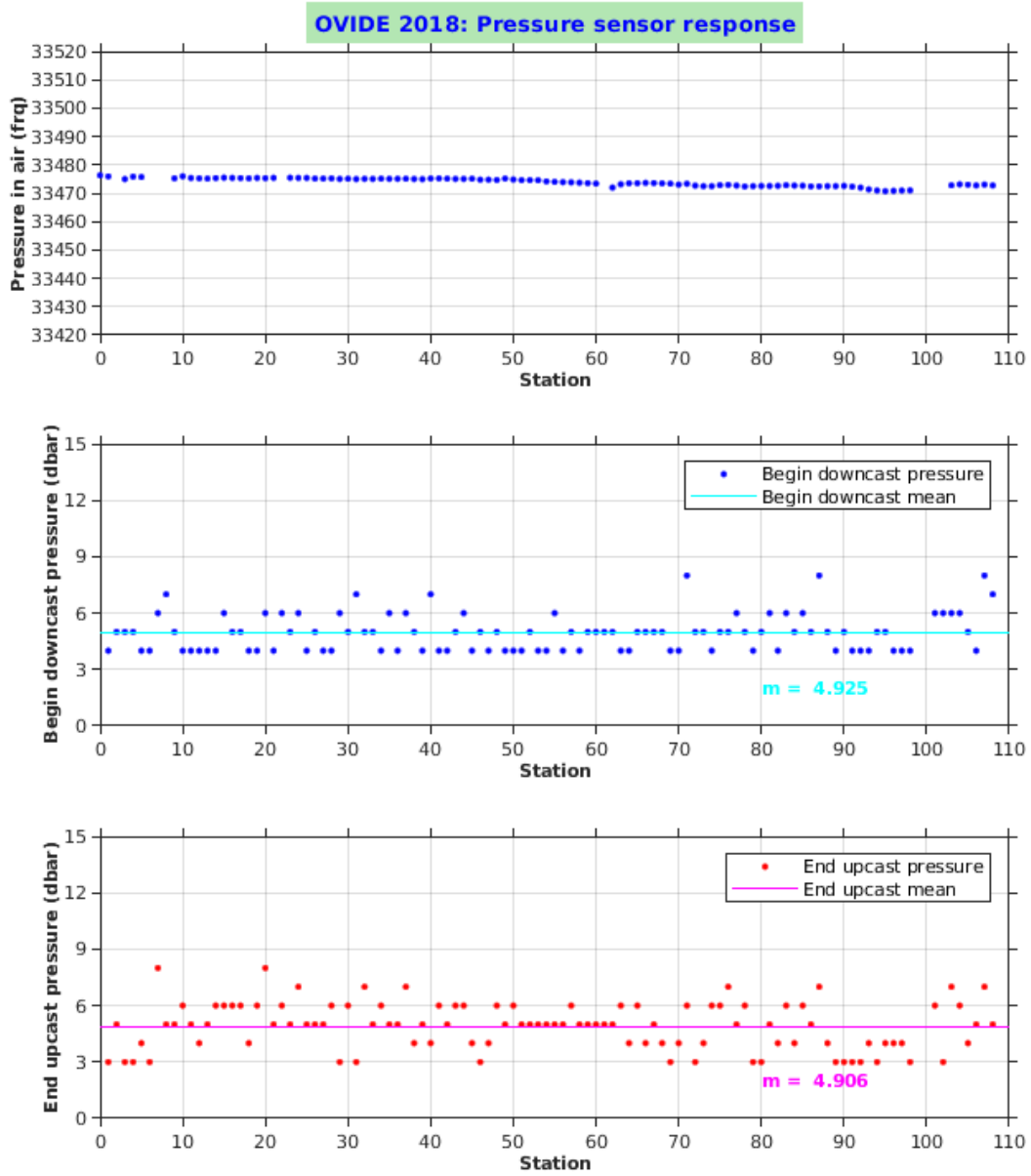


Figure 28: Monitoring of the pressure sensor:
 a) in air, at the start of the cast (value in Hertz),
 b) at the start of the downcast,
 c) at the end of the downcast.
 Means values are shown as solid lines.

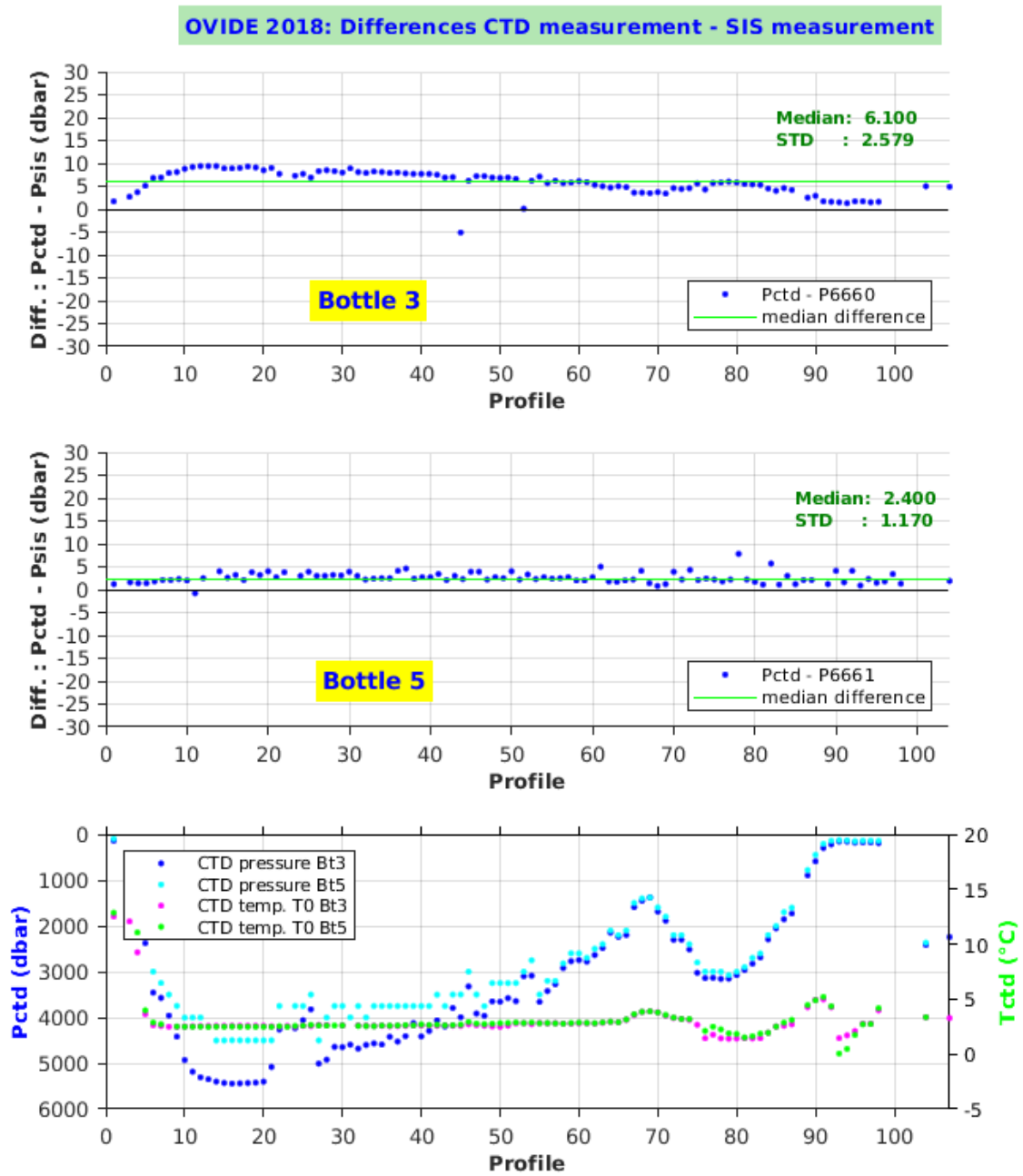


Figure 29: Comparison CTD pressure and SIS pressure

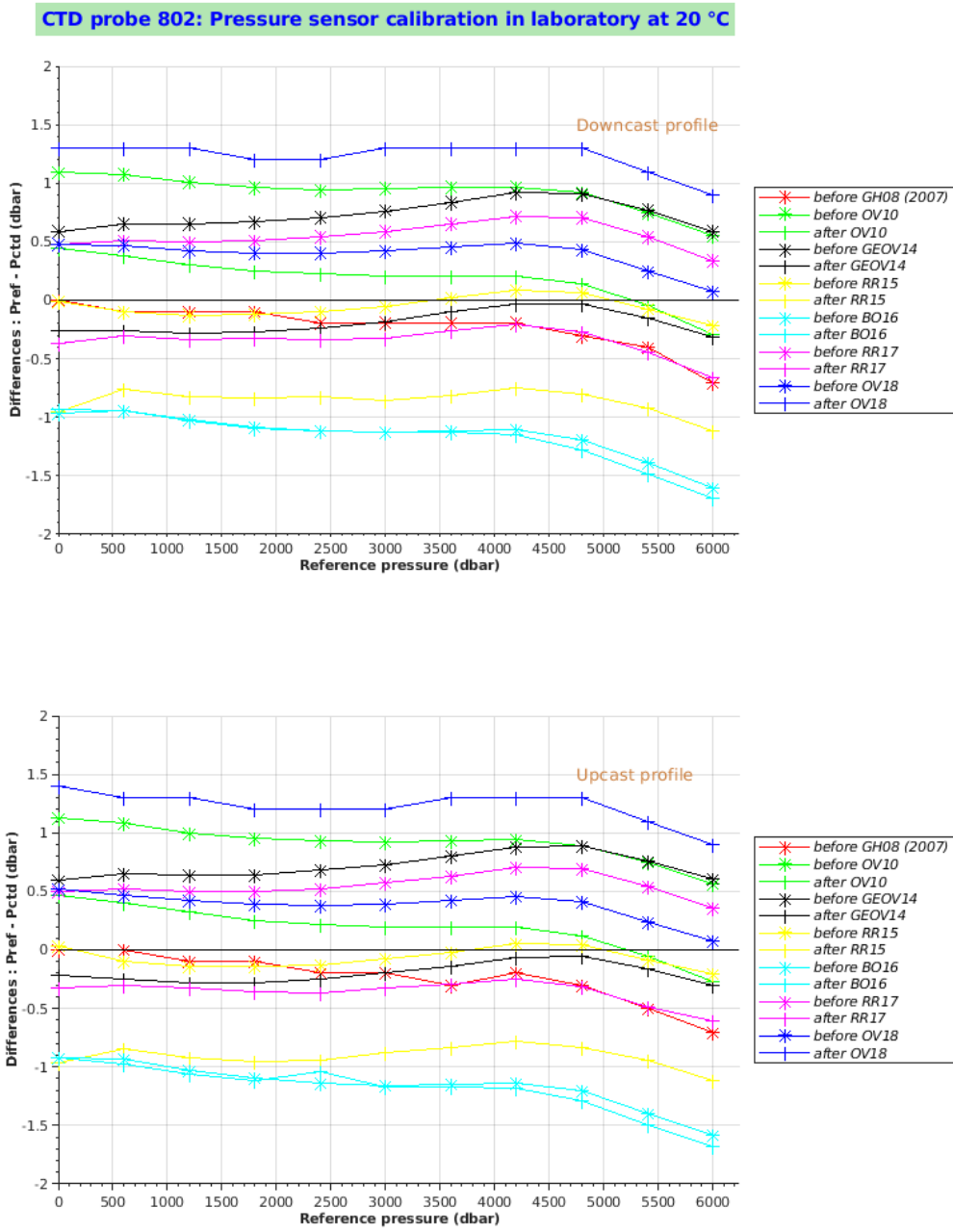


Figure 30: Monitoring of the pressure sensor over time

3.6. Calibration of the Temperature measurement

Our SBE9+ probes are equipped with two sets of temperature (T) and conductivity (C) sensors. The temperature sensors are SBE3+ sensors from Seabird, the measurement resolution is 0.0003 °C and the accuracy claimed by the manufacturer is 0.001 °C.

The both SBE3 on each CTD was calibrated by Seabird before each cruise. We started the cruise with new coefficients.

We also calibrated the temperature sensors at Ifremer laboratory of metrology before and after the cruise.

3.6.1. Calibration of the sensors at Ifremer laboratory

The LOPS's probes are regularly calibrated in the IFREMER laboratory of metrology, before and after each cruise. The probe is fully immersed in a thermostat seawater bath which temperature stability is strictly controlled. The reference temperature of the bath is provided by a Rosemount-type platinum resistance, placed in close proximity to the CTD sensor. This thermometer is periodically checked and certified by the "*Laboratoire National de Métrologie et d'Essais*" (LNE). The measured temperature is expressed on the EIT 90 scale. Several measurement points are thus tested by recording the temperature indicated by the CTD and comparing it to the reference temperature of the bath at several points between -1 and 25 °C.

This year after the cruise, we used a new bath with better accuracy for temperature calibration. We decided to use only this post-cruise calibration.

The figure 31 shows the calibration after cruise. The temperature measurements obtained on the cruise profiles are corrected by applying a polynomial of degree 1. This curve minimizes the differences (reference temperature - probe temperature) obtained during the calibration performed before and after the cruise. The maximum error on the primary sensor is ± 0.0013 °C and the standard deviation is 0.0009 °C.

Finally, we consider that the uncertainty in the temperature measurement is of the order of the sensor accuracy: 0.0010 °C.

3.6.2. Calibration of the CTD measurement

The reduced files only conserve a single dataset by sensor (T, C, O₂). The choice between the primary and secondary dataset is made by visualizing histogram of all raw measurements of the probe at 24 Hz. In the case of the OVIDE cruise, the choice is made to use the secondary temperature (T₁) for the complete calibration phase.

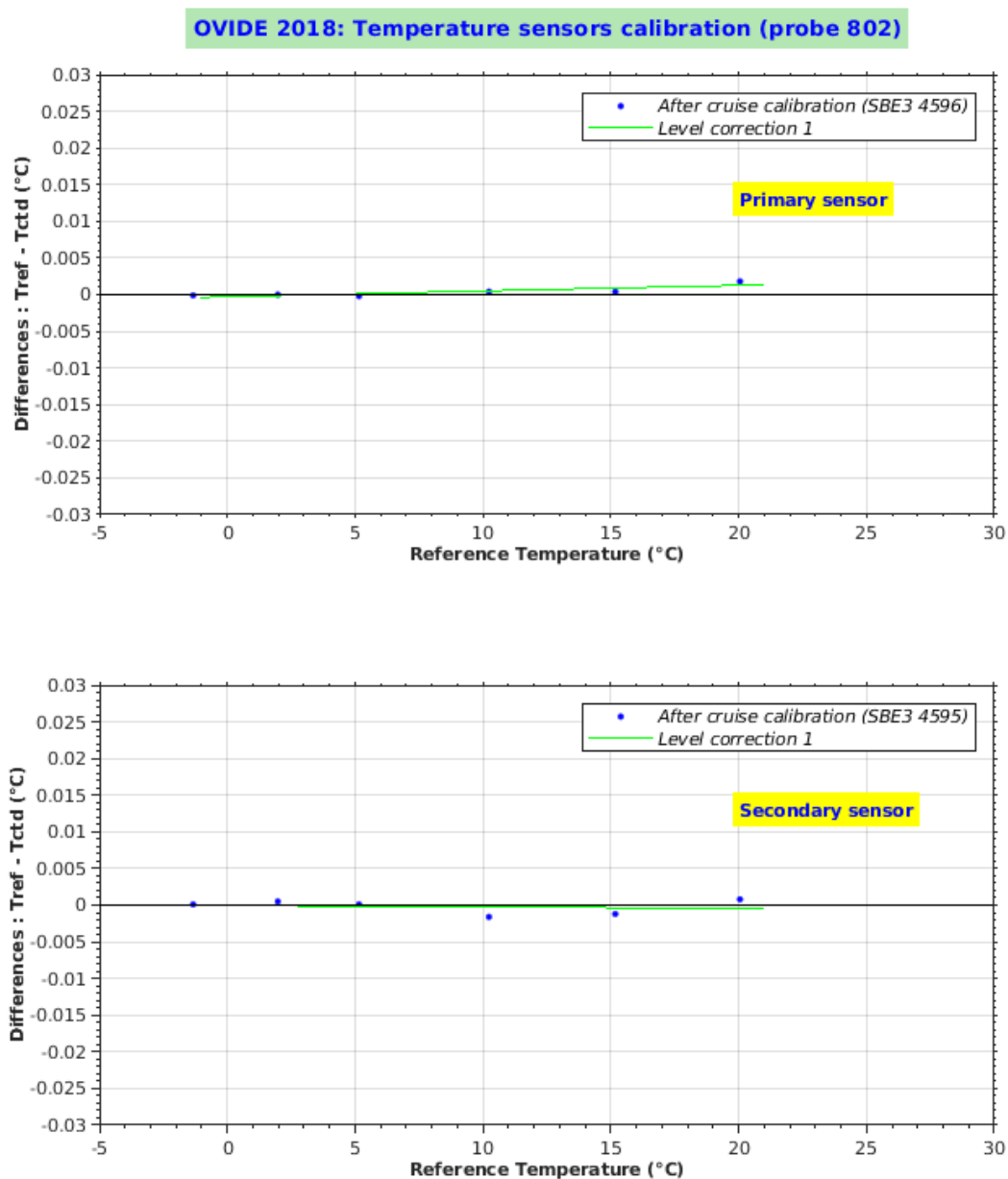


Figure 31: Final Temperature calibration

3.6.3. Monitoring of the temperature measurement

The LOPS CTD frame is equipped with two reversing thermometers (SIS RTM 4002X) on bottle 3 (T_{1726}) and bottle 5 (T_{1751}). The bottle 3 is always closed at the bottom. The SIS thermometers have not been calibrated since we bought them, so we followed relative relation.

During the cruise we compared the indications of the SIS thermometers with the SBE9 temperature. The figure 32 shows this comparison, and we conclude that the CTD temperature showed no drift over the cruise duration.

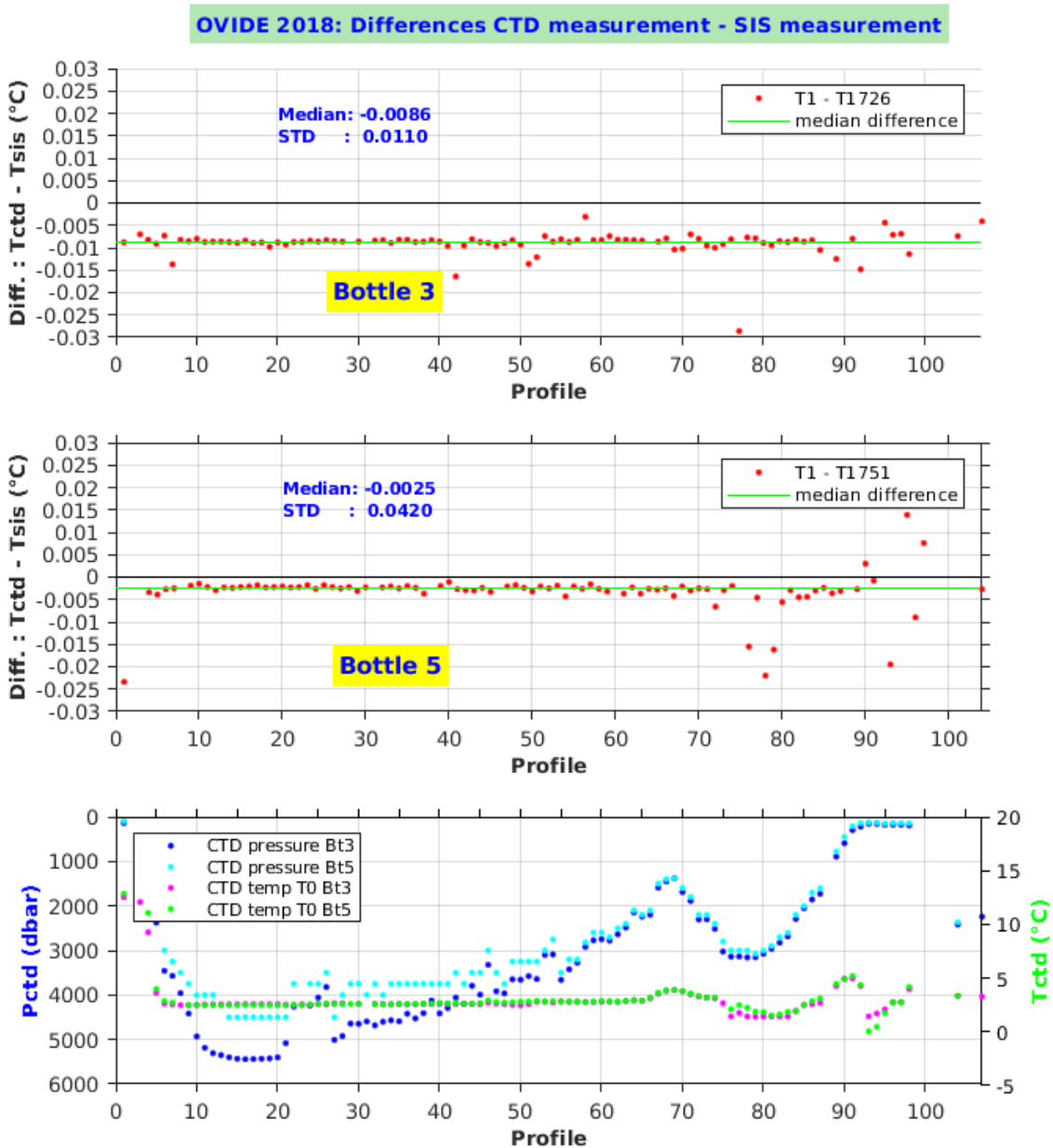


Figure 32: Temperature comparison

3.7. Calibration of the Conductivity

The SBE9+ probe is equipped with two SBE4 conductivity sensors (C_0 , C_1), with a range of measurements from 0 to 70 mS/cm. The accuracy claimed by the manufacturer is 0.003 mS/cm and the resolution 0.0004 mS/cm. The serial numbers of the sensors, used during the cruise, are given in section 3.1.1 Technical summary.

The reduced files only conserve a single conductivity. The choice between the primary (C_0) and secondary (C_1) conductivity is made before, by visualizing histogram of the raw measurements of the probe at 24 Hz. In the case of the OVIDE 2018 cruise, the choice is made to use the secondary conductivity (C_1).

3.7.1. Operating mode

The new calibration procedure for the conductivity measurements (CO_s), written according to the recommendations of the GO-SHIP group, first involves the conversion of the chemical salinity to chemical conductivity (CO_H) using the corrected values of the pressure and temperature sensors, at the sampling level. Then, the different corrections to be applied are calculated to minimize the differences:

$$\Delta C = CO_H - CO_s$$

- Correction as a function of time to take into account a potential slow drift of the conductivity sensor.
- Correction as a function of the conductivity. The selected coefficients result from successive iterations on the considered group of samples. The process is stopped when no additional sample is removed at the end of the current iteration. It follows that, at the end of the last iteration, all the differences ΔC are lower than the value:

$$\Delta C_{\max} = 2.8 * \text{standard-deviation}$$
 for the samples used in the calculation process.
- Correction as a function of the pressure on the conductivity or the salinity.

3.7.2. Analysis of the initial results and strategy adopted

The figure 33 shows the conductivity differences between conductivity bottle and raw conductivity sensor without any correction or offset.

The figure 34 shows the results of the adjustment of the conductivity sensor for all the casts together. All the dots are plotted (blue dots kept, red dots rejected).

The correction by group of stations (1-52, 53-108) gave better results when considering the statistics and the visual control of the comparison between the corrected profiles and the salinity samples.

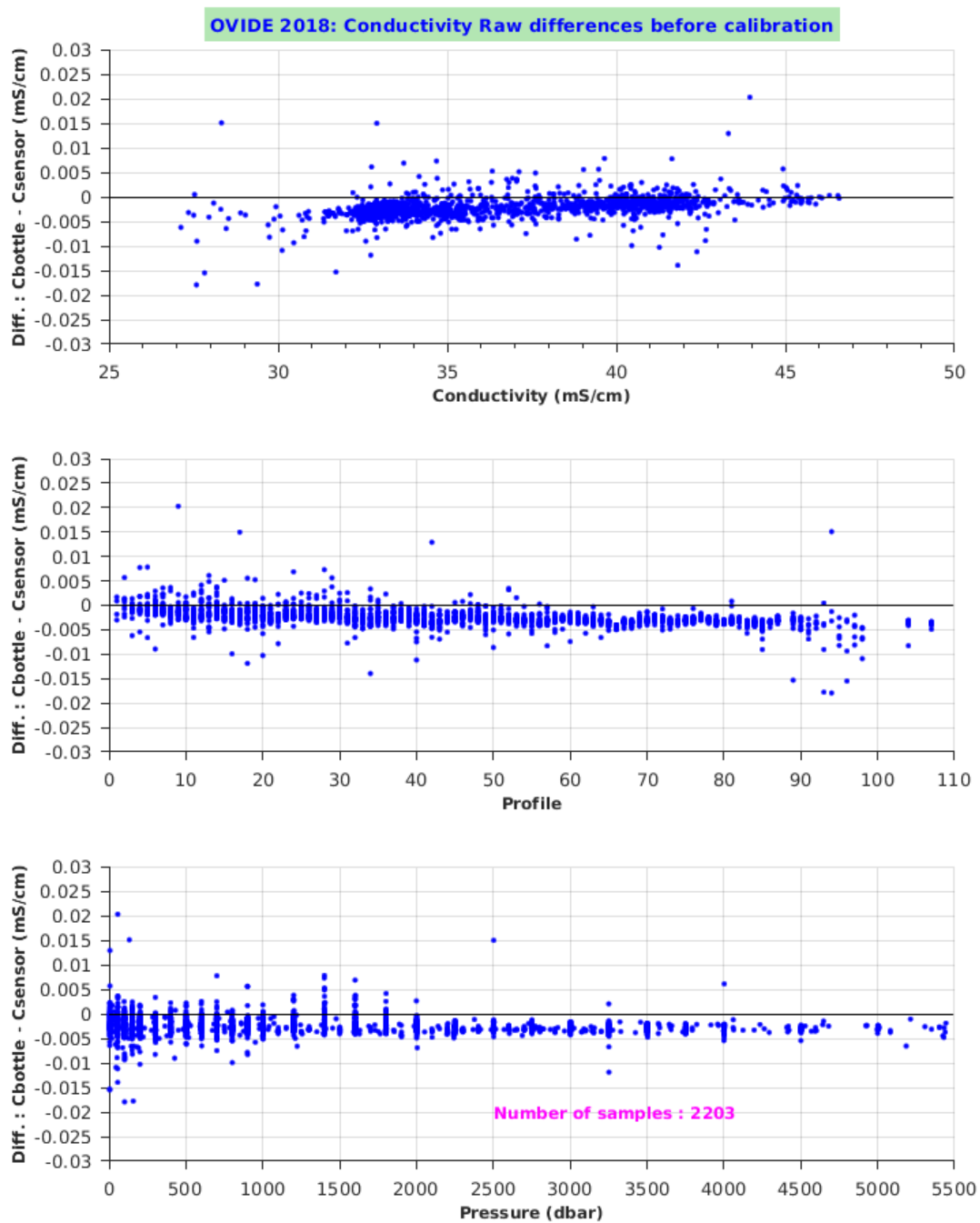


Figure 33: Conductivity raw differences.

Bottle salinity is converted to bottle conductivity. The differences are the result of raw bottle conductivity minus raw sensor conductivity.

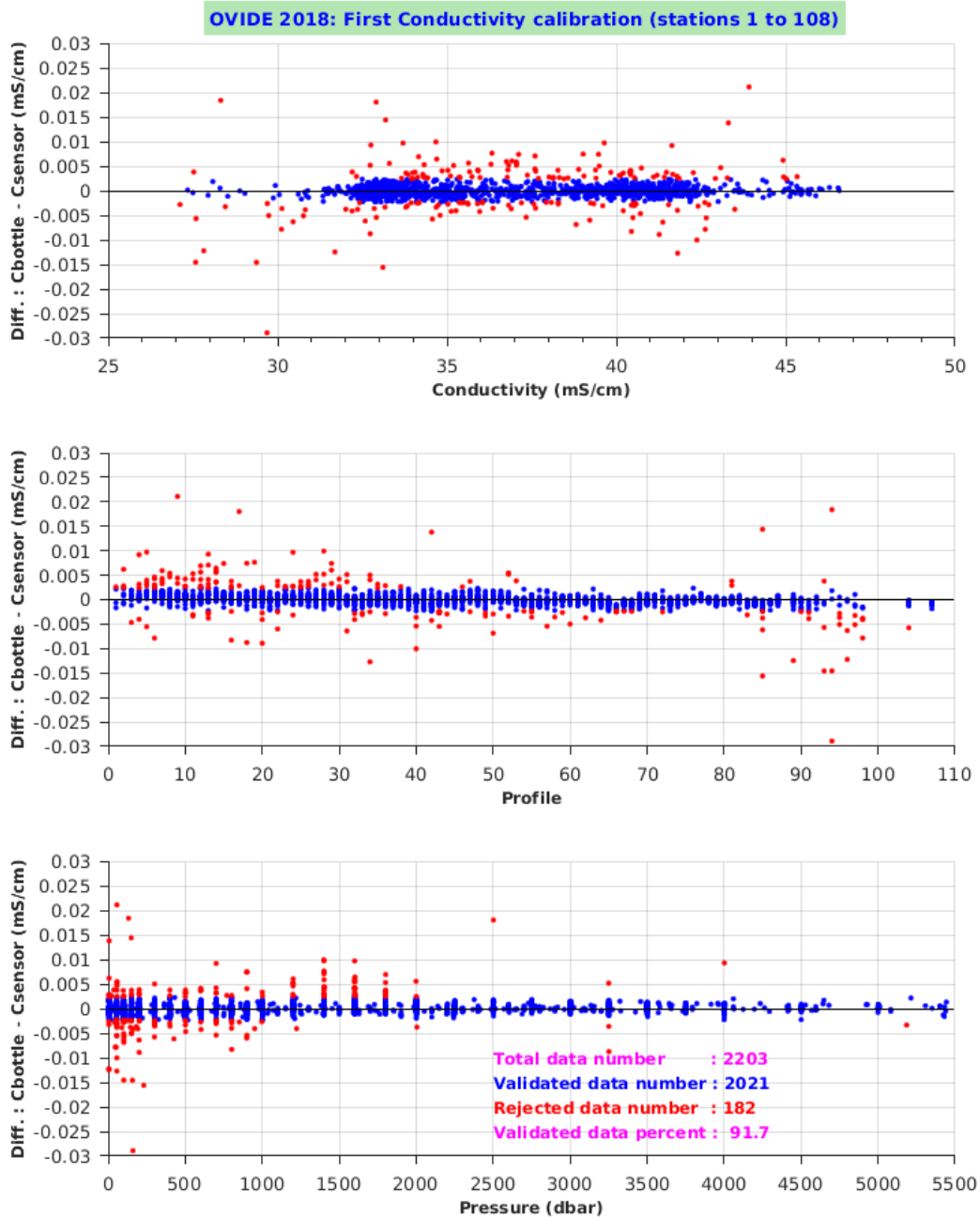


Figure 34: First Conductivity calibration.

Differences between the conductivity of the samples and the corrected probe conductivity at each sampling level:

- a) as a function of the conductivity,*
- b) as a function of the profile number,*
- c) as a function of the pressure of the sampling level.*

These differences are the result of a conductivity calibration on all the cruise samples, without temporal correction, with grouping casts and without pressure correction.

The blue dots are kept by the calculation, the red dots are rejected.

3.7.3. Assessment of the calibration of the conductivity profiles

The table below shows the results of the calibration of the conductivity measurements for the OVIDE 2018 cruise:

Profile or group of profiles	Number of samples considered	Number of samples conserved in the calculation	Standard deviation (0-5500 dbar)
1 - 52	1349	1214 (90.0 %)	0.00083
53 - 108	854	791 (92.2 %)	0.00060
1 - 108	2203	2005 (91.0 %)	0.00074

The table shows, for all the cast, the number of samples used for the calculation, the number of samples conserved by the process, as well as the resulting standard deviation for the group considered.

During the cruise, 2203 salinity samples were measured. The calculation process validated 2005 of them, i.e. 91.0 %.

No temporal correction and no pressure effect correction were applied.

Figure 35 shows the remaining differences in conductivity after final conductivity calibration of all casts.

The histograms in figure 36 confirm that the distribution of the differences is satisfactory. In 82.4 % of cases, the differences in conductivity are lower than ± 0.001 mS/cm, while in 100.0 %, they are less than ± 0.003 mS/cm, the standard deviation in conductivity is 0.00074 mS/cm.

The overall assessment can be established as follows: the conductivity values of 2005 validated samples indicate a standard deviation between the sensor data and the chemistry data, for the whole cruise, of 0.0010 mS/cm.

The histograms of differences in salinity after optimization are shown in figure 37: the standard deviation in salinity is 0.0008 psu.

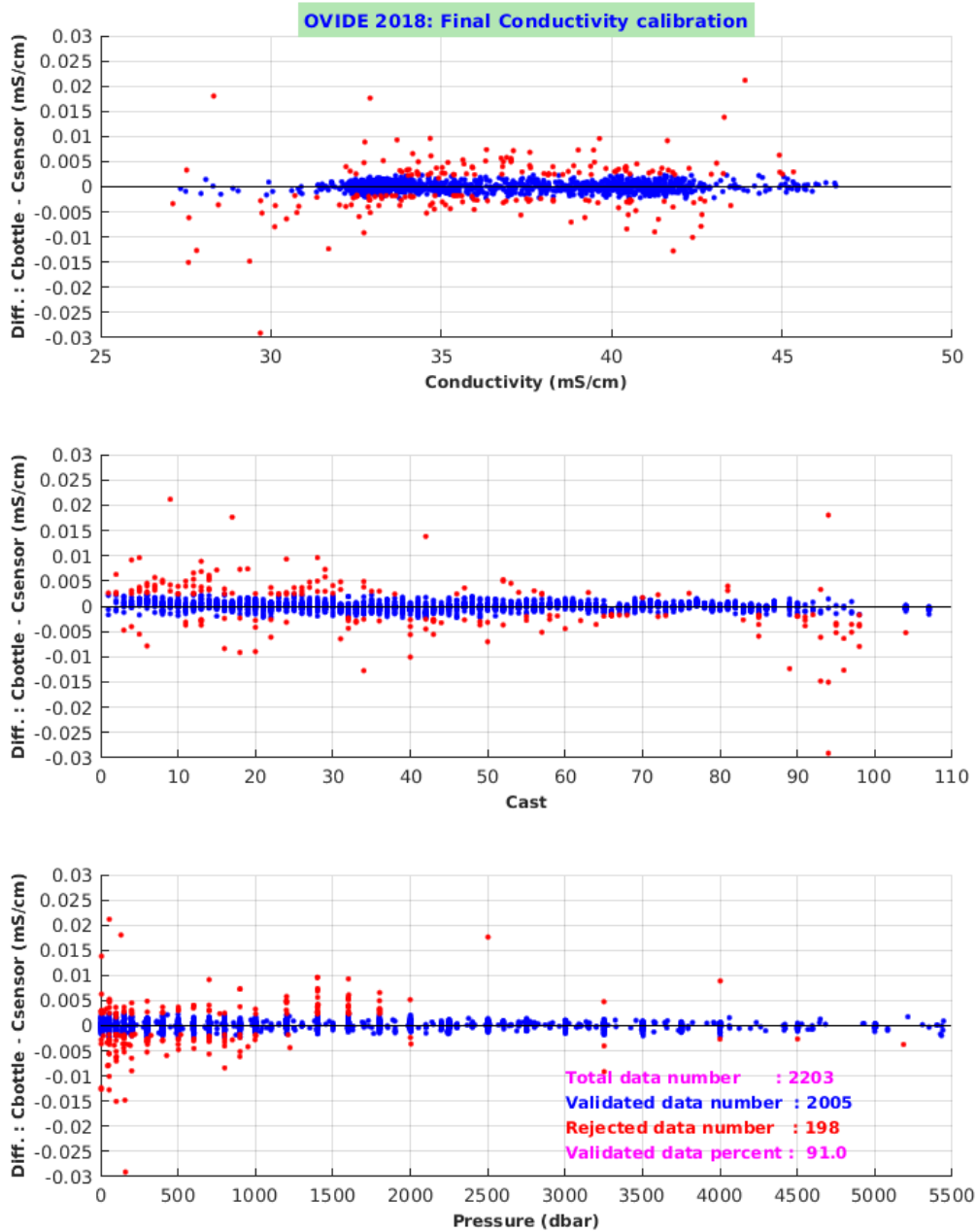


Figure 35: Final Conductivity calibration for OVIDE 2018.

Differences between the conductivity of 2005 validated samples and the probe conductivity corrected at each sampling level:

- a) as a function of the conductivity,
- b) as a function of the profile number,
- c) as a function of the pressure at the sampling level.

These differences are the result of a conductivity calibration on all the cruise samples, without temporal correction, with grouping casts and without pressure effect correction.

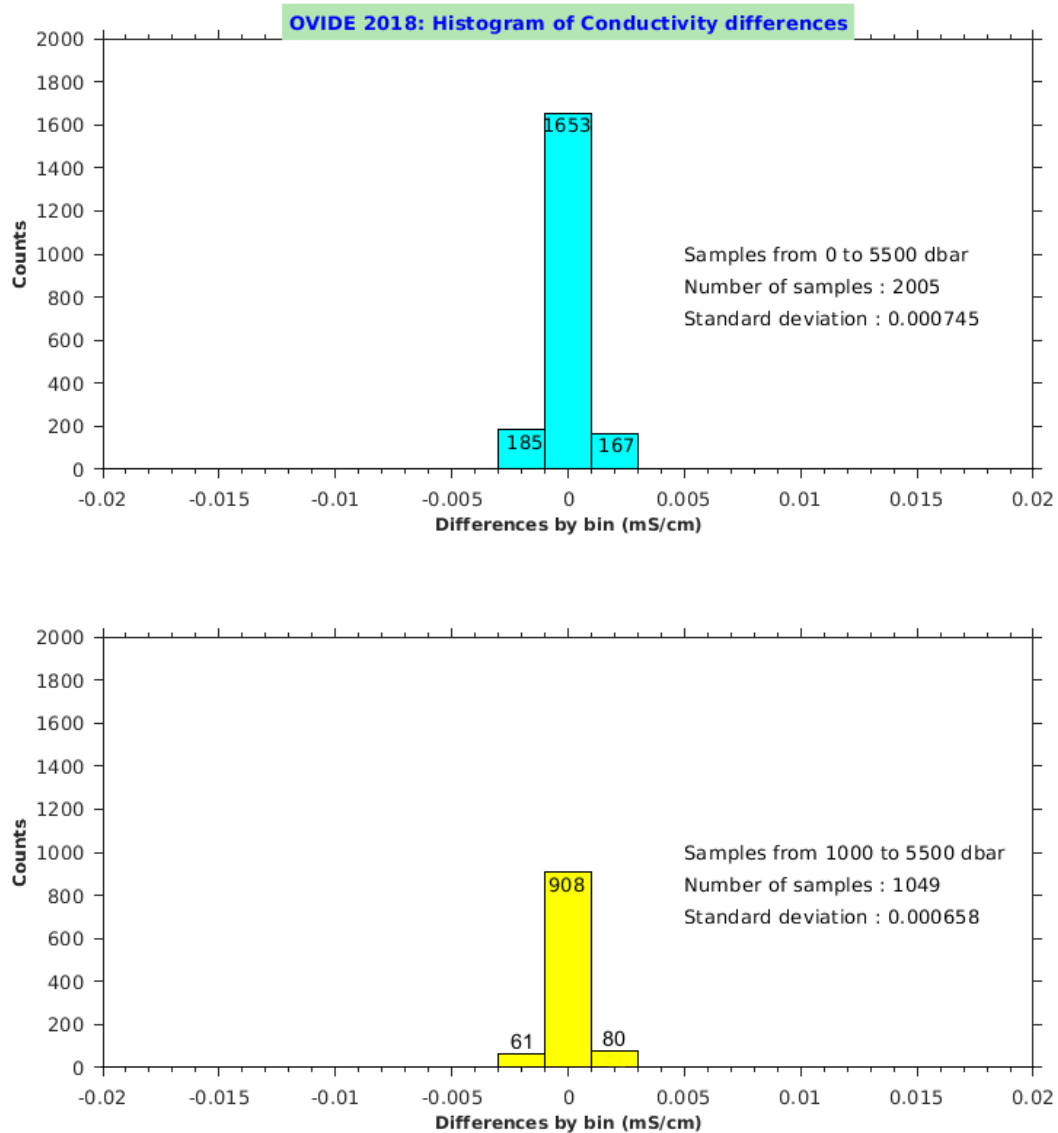


Figure 36: Histograms of final conductivity calibration.

Histograms of the differences between the conductivity of the validated samples and the CTD conductivity at the sampling level:

- a) for all the 2005 validated cruise samples,*
- b) for the 1049 validated samples collected at a pressure greater than 980 dbar.*

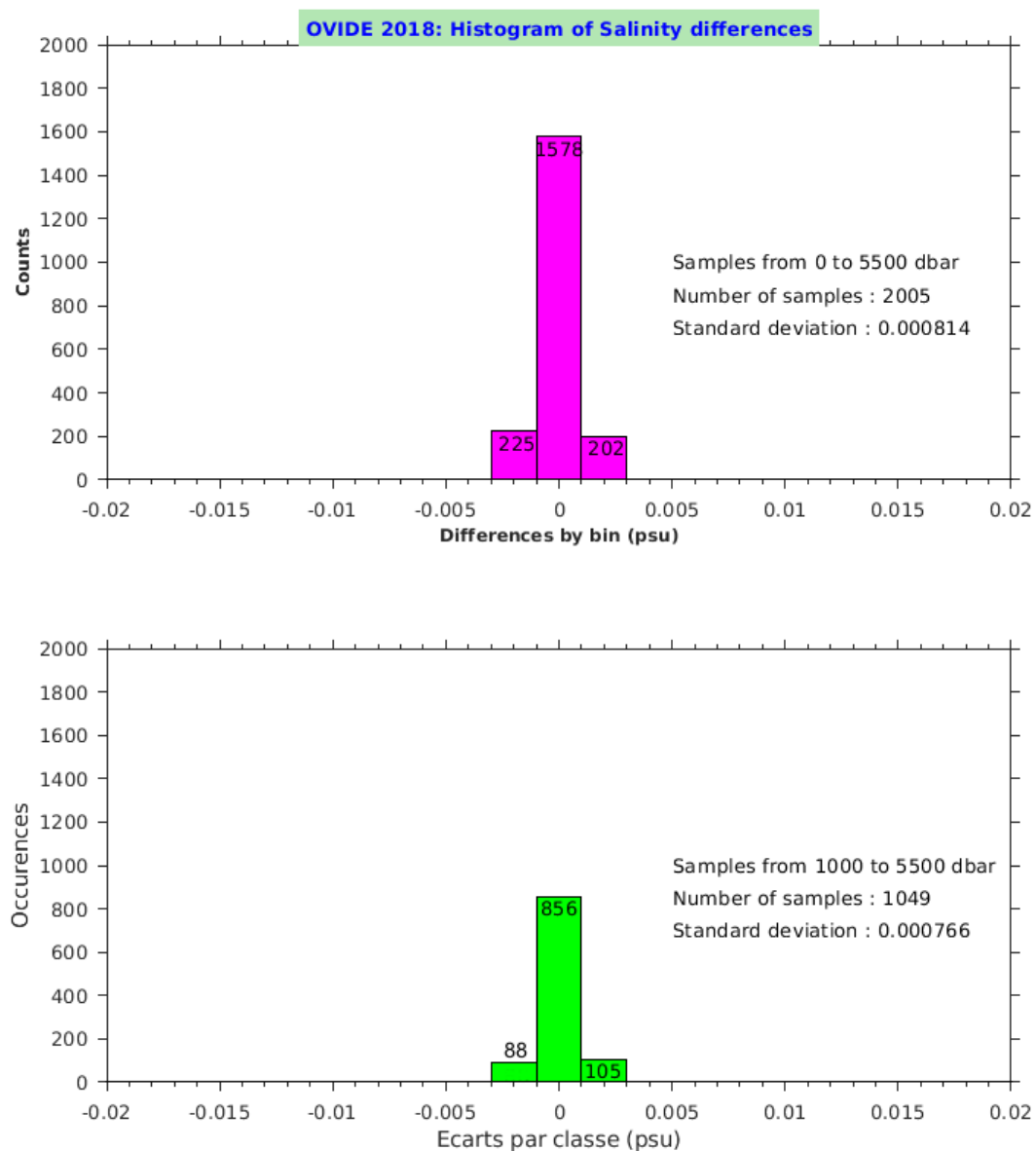


Figure 37: Histograms of final Salinity calibration.

3.7.4. Validation of the results

Figure 38 compare Theta-S from different cruises (Ovide 2010, Catarina 2012, RREX 2015, Bocats 2016, RREX 2017, Ovide 2018) made in all cases along the part of the Ovide section around Reykjanes Ridge.

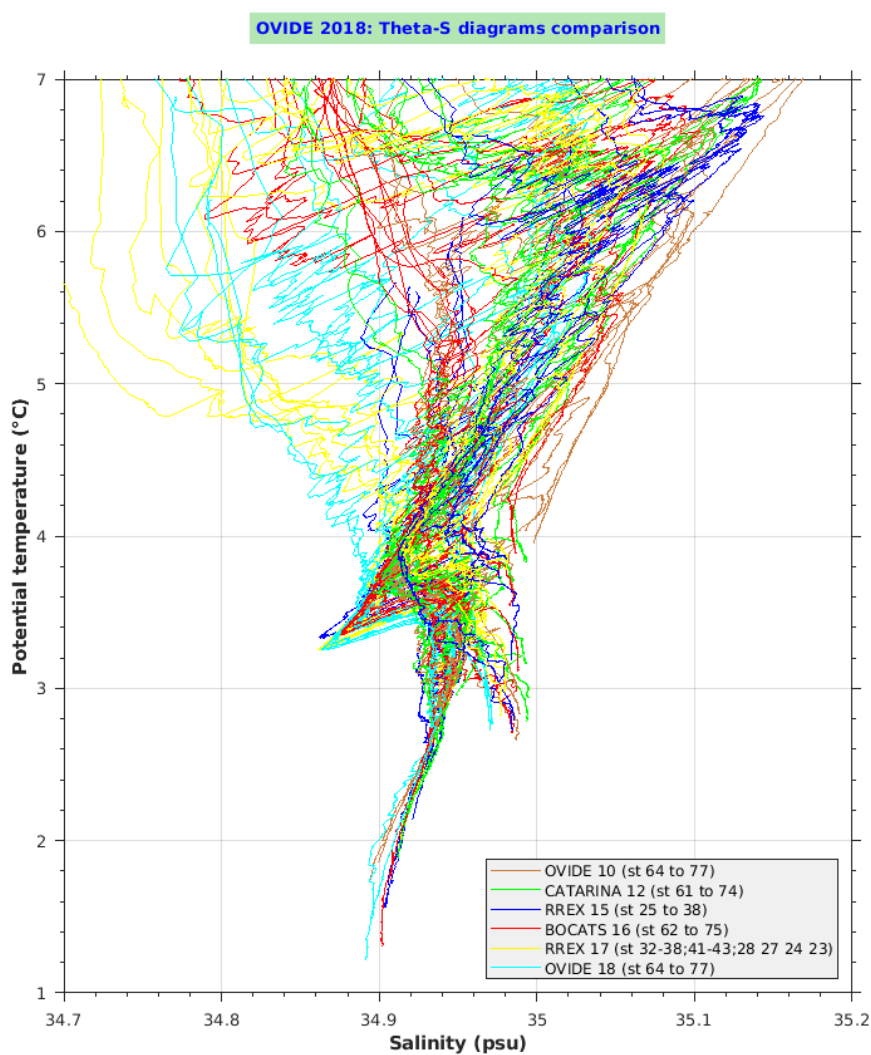


Figure 38: Theta-S comparison.

The figures below show Theta-S diagrams from CTD stations at the same point in different cruises. The top graph shows Theta-S for stations in the Portugal basin and the bottom graph shows Theta-S in the Iceland basin.

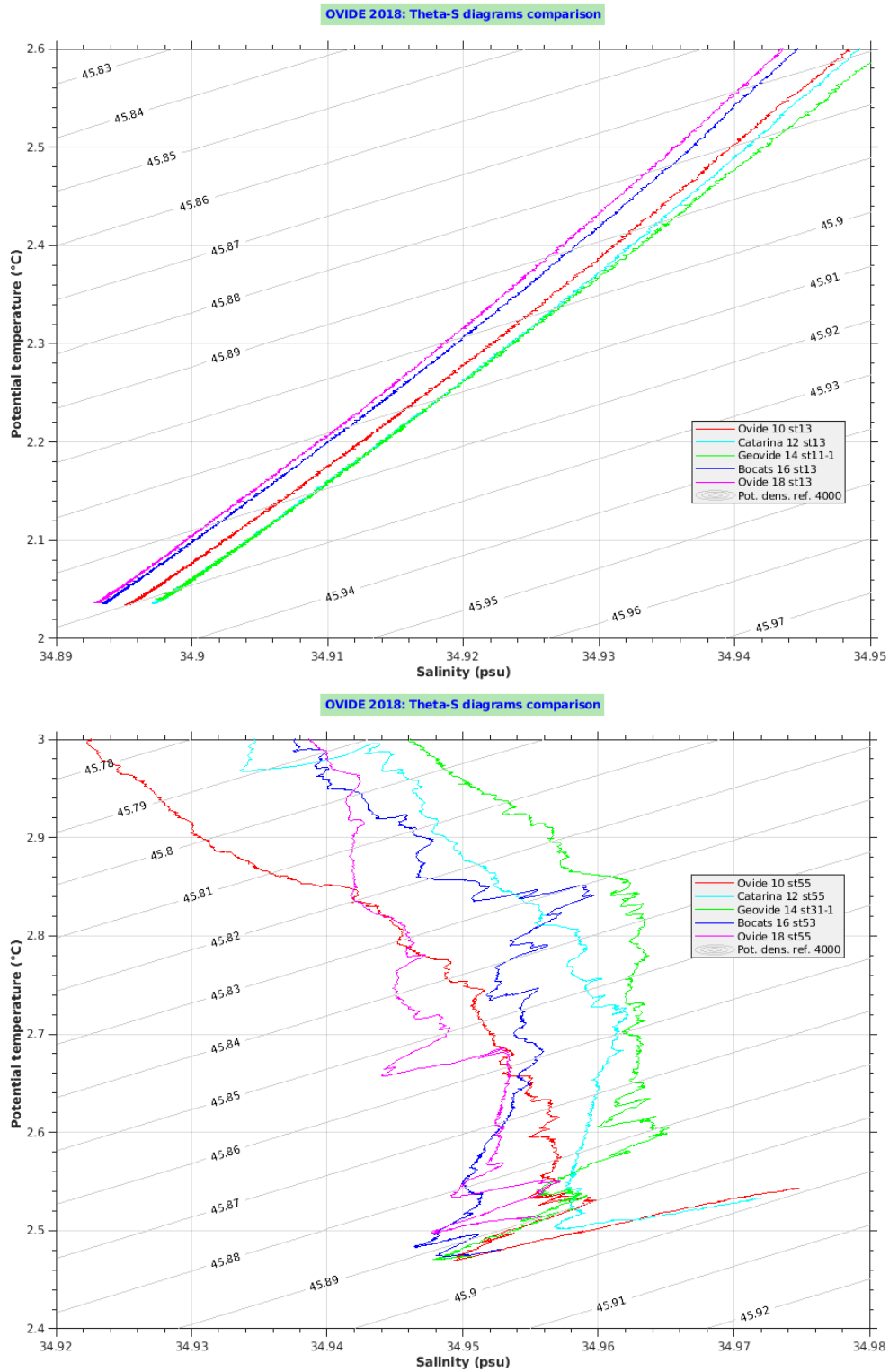


Figure 39: Theta-S comparisons for CTD stations made at (top) 40.333°N 12.223°W in Iberian Abyssal Plain, .and (bottom) 54.762°N 26.125°W in Iceland Basin

Figure 41 shows all the Theta-S of the OVIDE 2018 cruise.

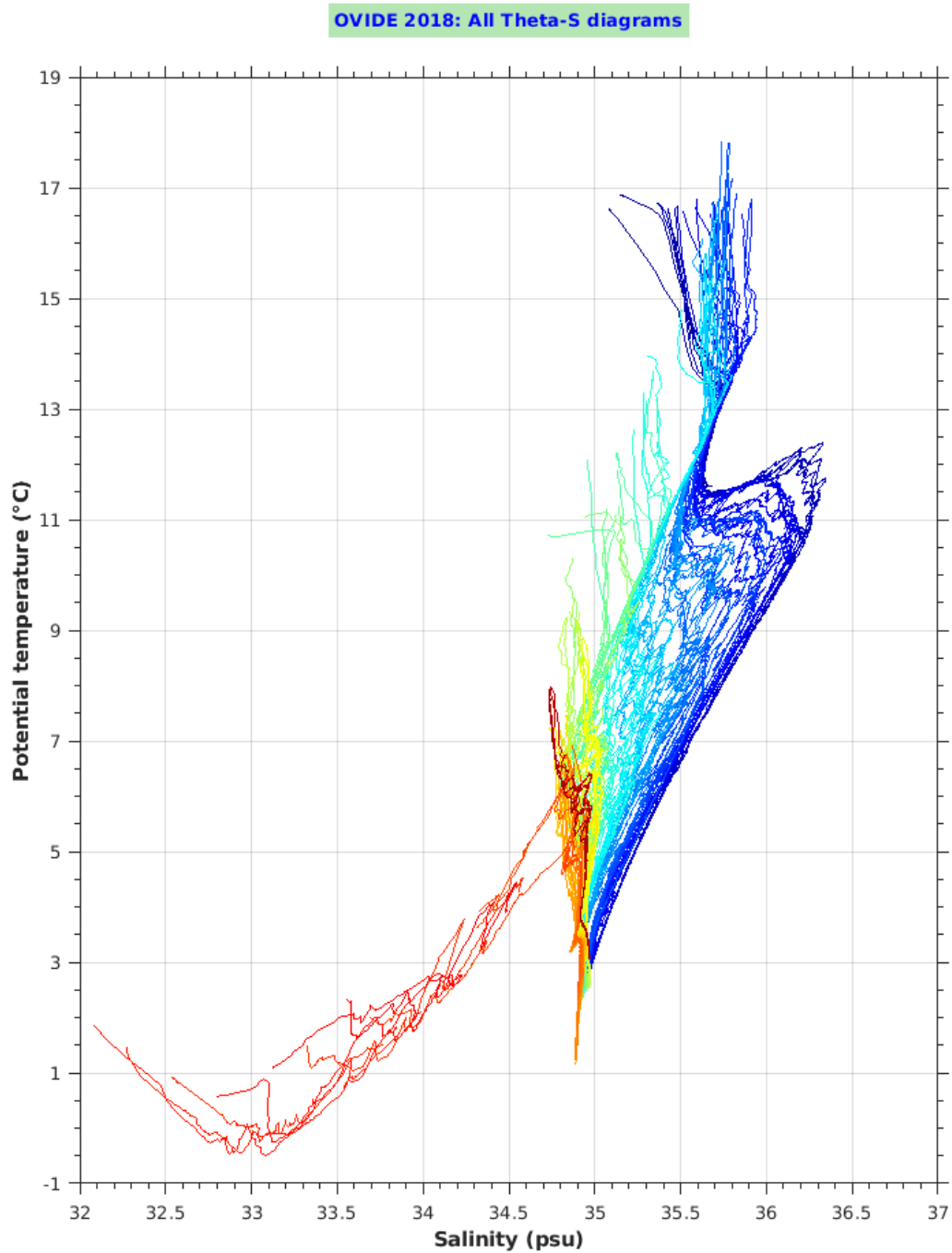


Figure 40: All Theta-S for OVIDE 2018 cruise.

The color of the profiles changes gradually from blue to red, from profile 1 to profile 108.

3.8. Calibration of dissolved oxygen profiles

The SBE9+ probe is equipped with two SBE43 dissolved oxygen sensors with a range of measurements from 0 to 120 % of the surface saturation. The accuracy claimed by the manufacturer is 2 % of the saturation. The serial numbers of the sensors, used during the cruise, are given in the section 3.1.1 Technical summary.

The choice between the primary (Ox₀) and secondary (Ox₁) oxygen is made before calibration by visualizing (histogram) the raw measurements of the probe at 24 Hz. The reduced files only conserve a single oxygen measurement. In the case of the OVIDE 2018 cruise, the choice was made to use the secondary oxygen (Ox₁) because of the noise of the primary sensor during campaign.

3.8.1. Operating mode

The dissolved oxygen content, OXYSBE, expressed in ml/l, is calculated from the Vr information transmitted by the sensor using the formula proposed by Millard (1982).

$$\text{OXYSBE (ml/l)} = \text{soc} * (\text{Vr} + \text{Voffset} + \text{tau} (\text{T}, \text{P}) * \delta\text{V}/\delta\text{t}) * \text{oxsol} (\text{T}, \text{S}) \\ * (1.0 + \text{A} * \text{T} + \text{B} * \text{T}^2 + \text{C} * \text{T}^3) * e^{(\text{E} * \text{P} / \text{K})}$$

Vr: O₂ measurement in volts

δV/δt: derivative of the signal SBE43 (volt/sec)

Oxsol: function for the calculation of the oxygen solubility (Garcia & Gordon 1992)

P: probe pressure (dbar)

T: probe temperature (°C)

K: probe temperature (°K)

S: probe salinity (psu)

Soc, Voffset, A, B, C, E, tau: characteristics of the Seabird sensor

In practice, the term associated with tau is neglected because it adds noise when the profile is homogenous vertically (see Application note n° 64; Nov 2008). The goal of the calibration is the determination of a new Soc and Voffset.

The oxygen in volts is corrected for hysteresis by the Hydro_net program in .cnv files (section 3.4.2).

For the calibration, the probe oxygen (OXYS) is obtained by calculating a mean on a water column of 15 dbar on the downcast profile, at the sampling level, based on the probe measurements in volts before the hysteresis correction. So we don't use the bottle files provided by SeaBird processing software for this calibration.

The method used for the calibration of the probe measurements from the chemistry measurements (OXYC in ml/l) involves the determination of the coefficients M and B of the equation below to minimize the differences between (OXYC / phi) and (OXYS * M + B).

$$\text{OXYC (ml/l)} / \text{phi} = \text{OXYS (volt)} * \text{M} + \text{B}$$

where:

- . $\phi = \text{Oxsol}(T,S) * (1.0 + A*T + B*T^2 + C*T^3) * e^{(E*P/K)}$
- . $M = \text{soc}$
- . $B = \text{Voffset} * \text{soc}$ thus $\text{Voffset} = B / \text{soc}$

The Soc and Voffset coefficients (deduced from the values of M and B) of the Seabird sensor characteristics are determined for a set of samples, using successive iterations based on a principle similar to that for the conductivity.

3.8.2. Dissolved oxygen units

The unit used in the calibration procedure and in graphical representations of this report is the milliliter per liter (ml/l).

The water temperature, at the time of sampling from the bottles, was taken with an Ebro thermometer (accuracy = ± 0.3 °C) before fixing of the oxygen by the reagents. We then deduce the density of the seawater sample, and the dissolved oxygen content can be converted to micromoles per kilogram ($\mu\text{mol/kg}$) (see Mercier et al. 1992).

The dissolved oxygen data of the SBE43 sensor are therefore provided in both units.

3.8.3. Analysis of the initial results and strategy adopted

The figure 41 shows the oxygen raw differences between oxygen bottle and raw oxygen sensor taken on downcast. The oxygen sensor was first corrected with hydro_net (see sections 3.4.1 and 3.4.2).

Figure 42 shows the distribution of the differences obtained after this initial global determination of Soc and Voffset coefficients.

A detailed analysis shows that dividing the casts into groups (1-11; 12-20; 21-36; 37-41; 42-43, 44-52, 53-75, 76-98, 101-108) would improve the distribution of differences. Also, a correction of the pressure effect with a polynomial of degree 1 improves the results. Thus, each of these phases should be considered separately. Their identification and then a specific calculation is used to obtain, for each cast, a dissolved oxygen profile that fits well on the oxygen values obtained by chemical analysis.

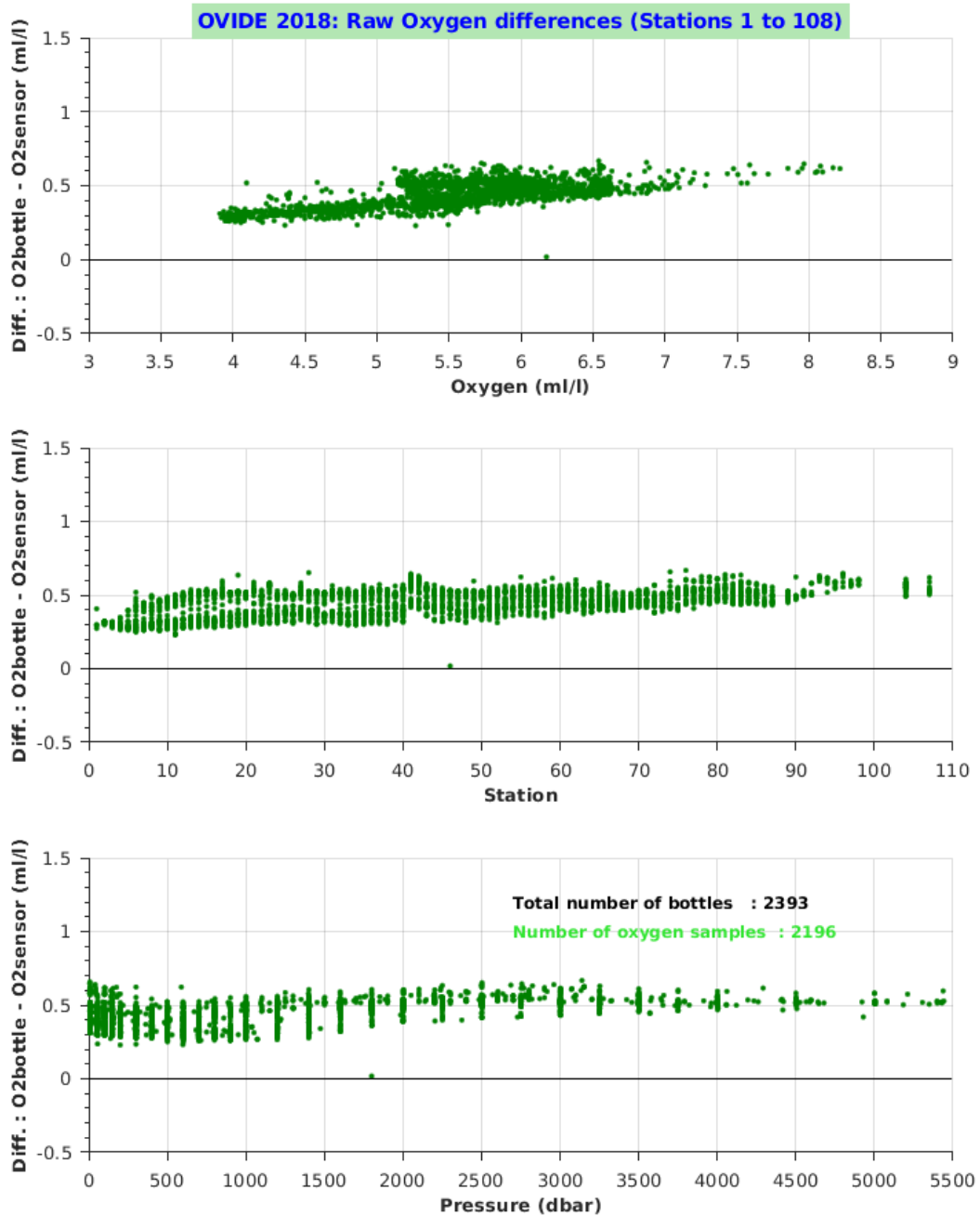


Figure 41: Oxygen raw differences.

Oxygen raw differences (O_2 bottle - O_2 sensor) without calibration.

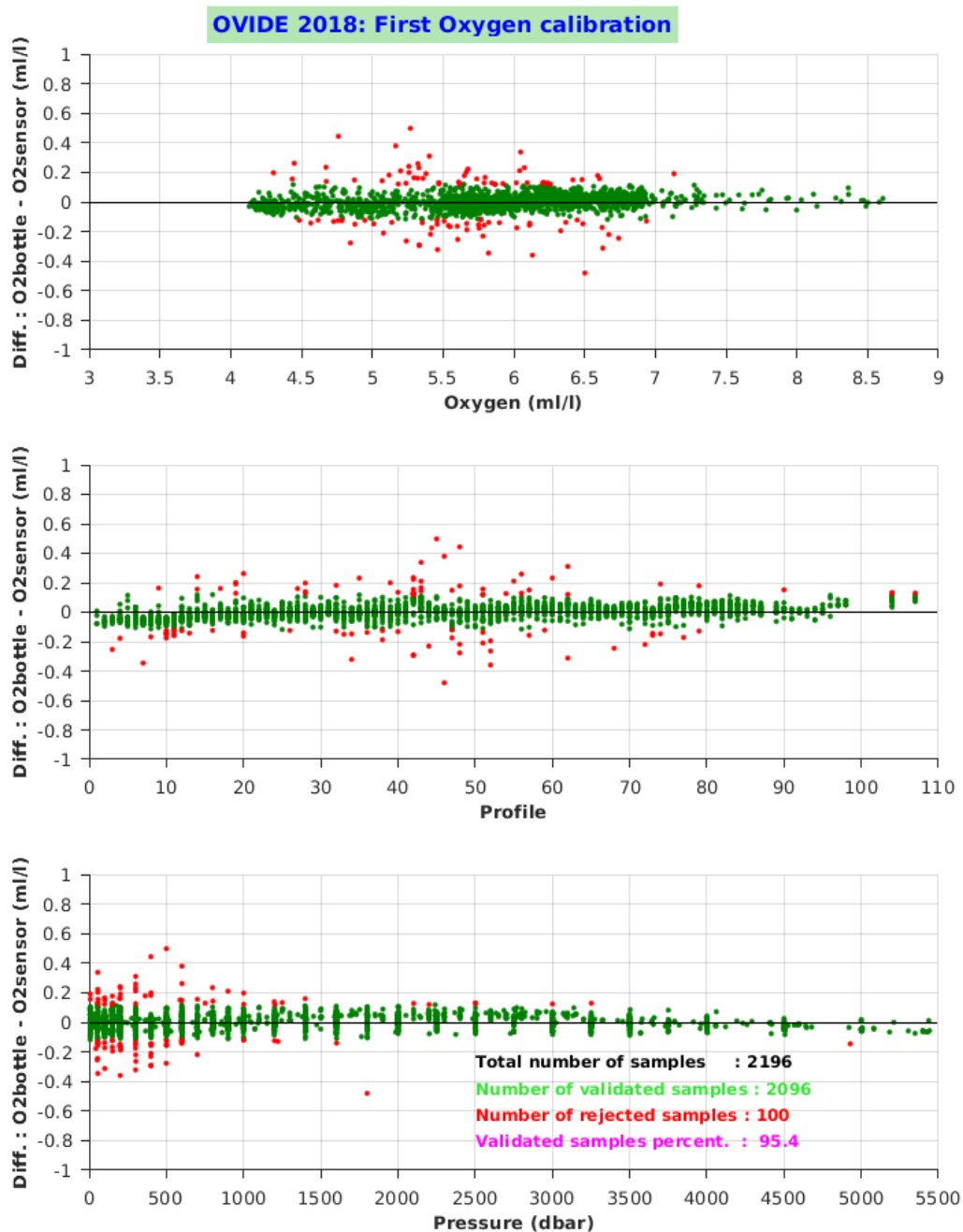


Figure 42: First Oxygen calibration.

Differences between the oxygen values measured in the samples and that of the CTD downcast profile at the sampling pressure:

- a) as a function of the oxygen,
- b) as a function of the number of the profile concerned,
- c) as a function of the pressure at the sampling level.

These differences are the result of a calculation performed on all the cruise samples with no grouping and no correction for a pressure effect.

3.8.4. Assessment of the calibration of the dissolved oxygen profiles

The table below shows for all casts, the number of oxygen samples considered, the number of validated samples and the standard deviation in three pressure intervals, as well as the calculated parameters of the sensor Soc and Voffset.

Assessment of the calibration of the dissolved oxygen profiles of the OVIDE 2018 cruise:

Profile or group of profiles	Number of samples considered	Number of samples conserved in the calculation	Standard deviation			Coefficients	
			0 à 5500	0 à 1000	1000 à 5500	Soc	Voffset
1 - 11	217	186 (85.7%)	0.0178	0.0172	0.0184	0.422393	-0.429492
12 - 20	243	220 (90.5 %)	0.0248	0.0278	0.0220	0.427452	-0.437534
21 - 36	443	415 (93.7 %)	0.0280	0.0327	0.0235	0.427744	-0.432846
37 - 41	140	134 (95.7 %)	0.0369	0.0483	0.0253	0.431242	-0.444385
42 - 43	56	53 (94.6 %)	0.0646	0.0899	0.0333	0.435036	-0.437223
44 - 52	246	219 (89.0 %)	0.0320	0.0406	0.0239	0.425793	-0.425191
53 - 75	521	487 (93.5 %)	0.0266	0.0310	0.0209	0.424656	-0.414126
76 - 98	302	289 (95.7 %)	0.0259	0.0295	0.0198	0.424074	-0.406778
101 - 108	28	28 (100 %)	0.0221	0.0313	0.0182	0.430324	-0.416824
1 - 108	2196	2031 (92.5 %)	0.0288				

Figure 43 shows the final differences, after calibration. The distribution of these differences is correctly centered and acceptable for each of the cruise profiles. The distribution of the differences presented as a function of the pressure shows that it is also acceptable for all sampling levels.

The histograms in figure 44 allow us to visualize the distribution of differences in a different way and to verify that their distribution is properly centered.

For the complete OVIDE 2018 cruise, 2031 samples among the 2196 analysed, i.e. 92.5 %, were validated and used to calibrate the ctd dissolved oxygen profiles. The differences in oxygen are less than ± 0.010 ml/l in 34.3 % of cases and less than ± 0.030 ml/l for 75.2 %, giving a standard deviation of 0.029 ml/l.

Considering only the part of the oxygen profile greater than 980 dbar, i.e. 1083 samples, the differences are less than ± 0.010 ml/l for 41.6 % and less than ± 0.030 ml/l for 84.2 %. The resulting standard deviation is 0.022 ml/l.

Figure 45 shows the same histograms for oxygen, in $\mu\text{mol/kg}$. The differences in oxygen are less than ± 1 $\mu\text{mol/kg}$ in 65.3 % of cases and less than ± 3 $\mu\text{mol/kg}$ for 97.2 %, giving a standard deviation of 1.26 $\mu\text{mol/kg}$.

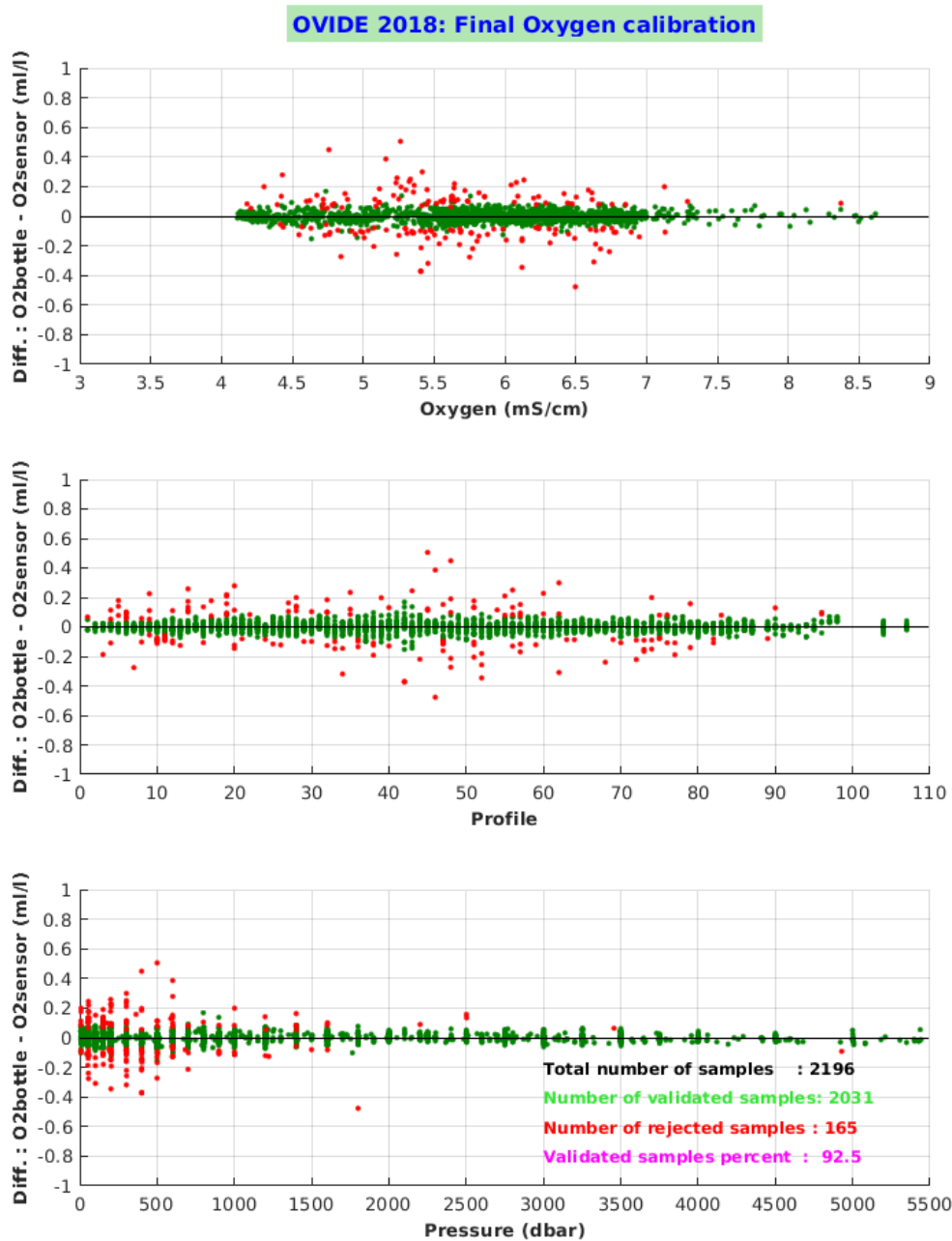


Figure 43: Final Oxygen calibration.

Differences between the oxygen value measured on the 2031 validated samples and that of the CTD downcast profile around the sampling pressure (averaged over a 15 dbar interval):

- as a function of the oxygen
- as a function of the number of the profile concerned,
- as a function of the pressure at the sampling level.

These differences are obtained after a specific calculation performed by group of casts. A polynomial of degree 1 eliminates the dependence of the differences on the pressure.

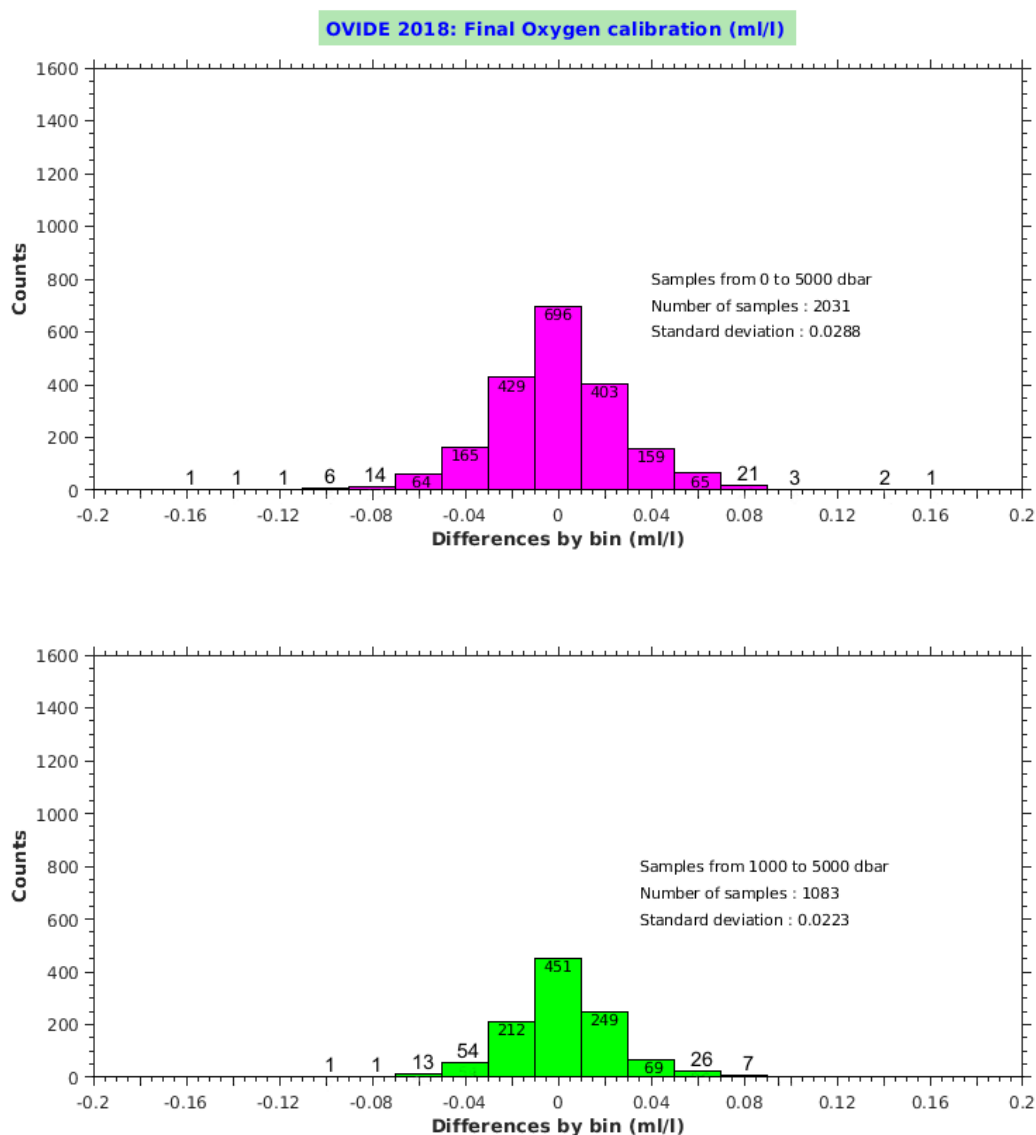


Figure 44: Histogram of the Oxygen differences.

Histograms of oxygen differences (ml/l) between the value measured on the validated samples and that of the CTD downcast profile at the sampling pressure (final measurements):

- a) for all the 2031 validated samples on the cruise,
- b) for the 1083 validated samples collected at a pressure greater than 980 dbar.

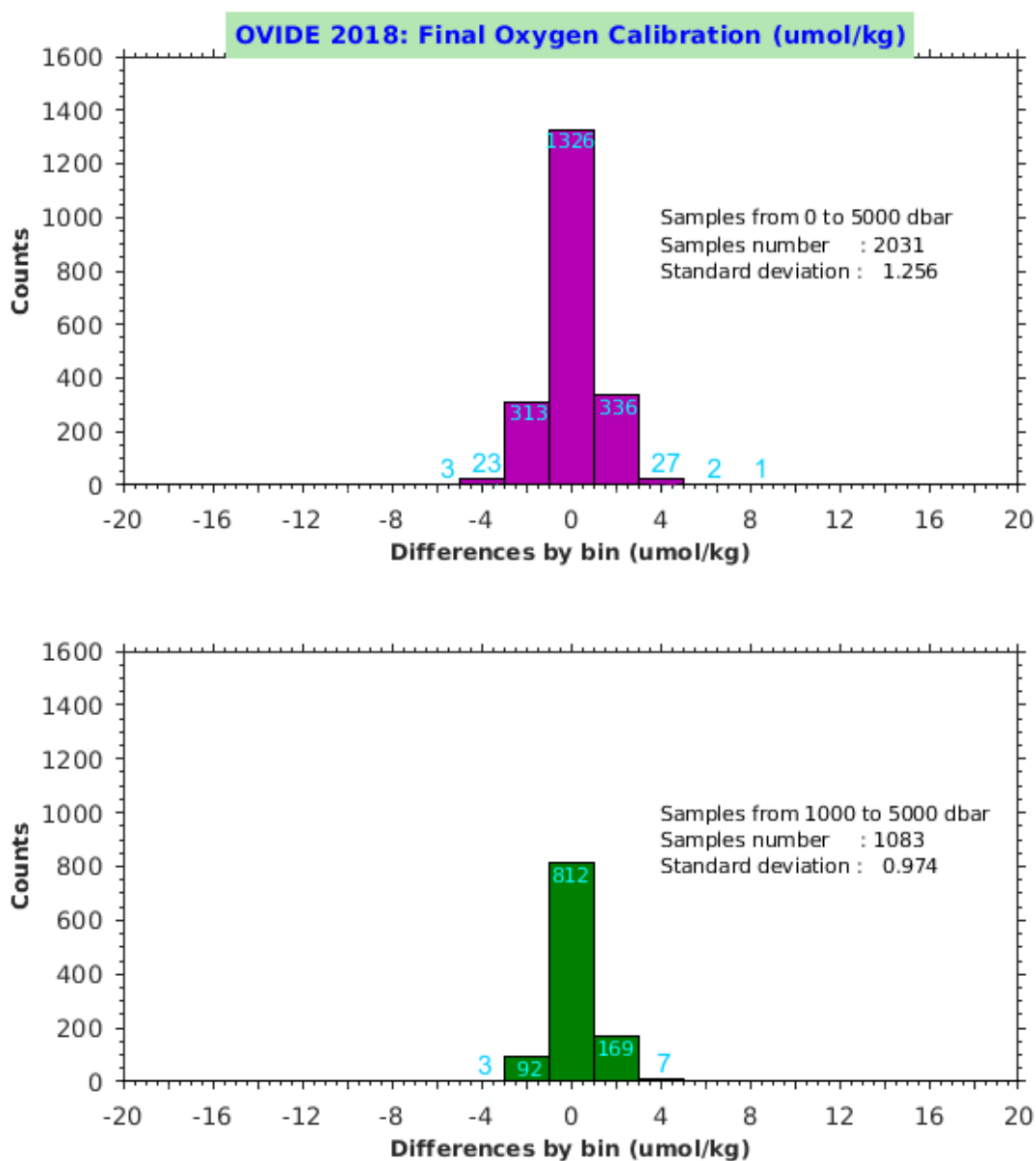


Figure 45: Histogram of the Oxygen differences ($\mu\text{mol/kg}$).

Histograms of the oxygen differences ($\mu\text{mol/kg}$) between the value measured on the validated samples and that of the CTD downcast profile at the sampling pressure (final measurements):

- for all the 2031 validated samples ($\mu\text{mol/kg}$) on the cruise,
- for the 1083 validated samples collected at a pressure greater than 980 dbar.

3.8.5. Validation of the results

Figure 46 compare Theta-O₂ from different cruises around Reykanes Ridge (Ovide 2010, Catarina 2012, RREX 2015, BOCATS 2016, RREX 2017, OVIDE 2018) made along the part of the Ovide section shown on the map on the right.

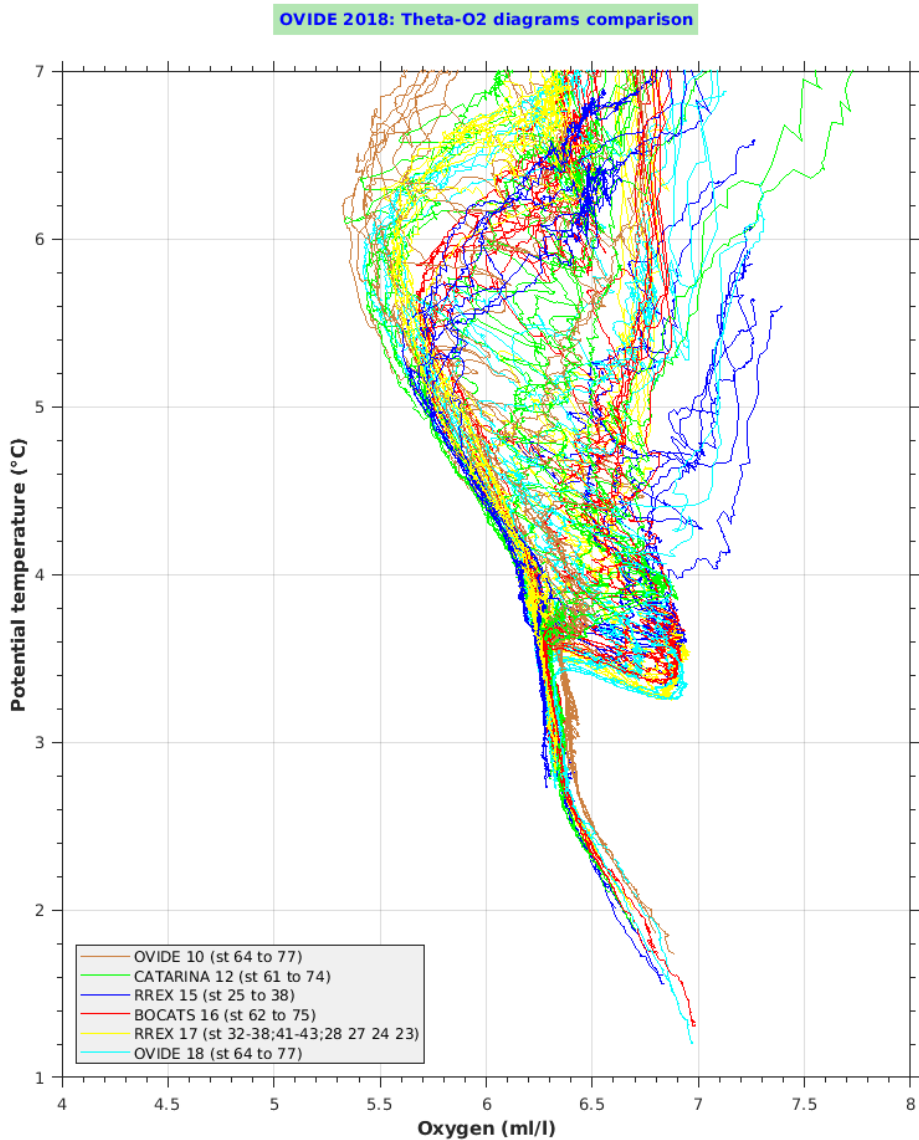
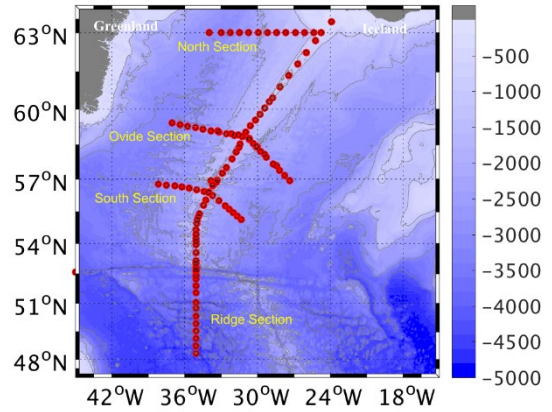


Figure 46: Theta-O₂ comparison.

The figures below show Theta-O₂ diagrams from CTD stations at the same point in different cruises. The top graph shows Theta-O₂ for stations in the Portugal basin and the bottom graph shows Theta-O₂ in the Iceland basin.

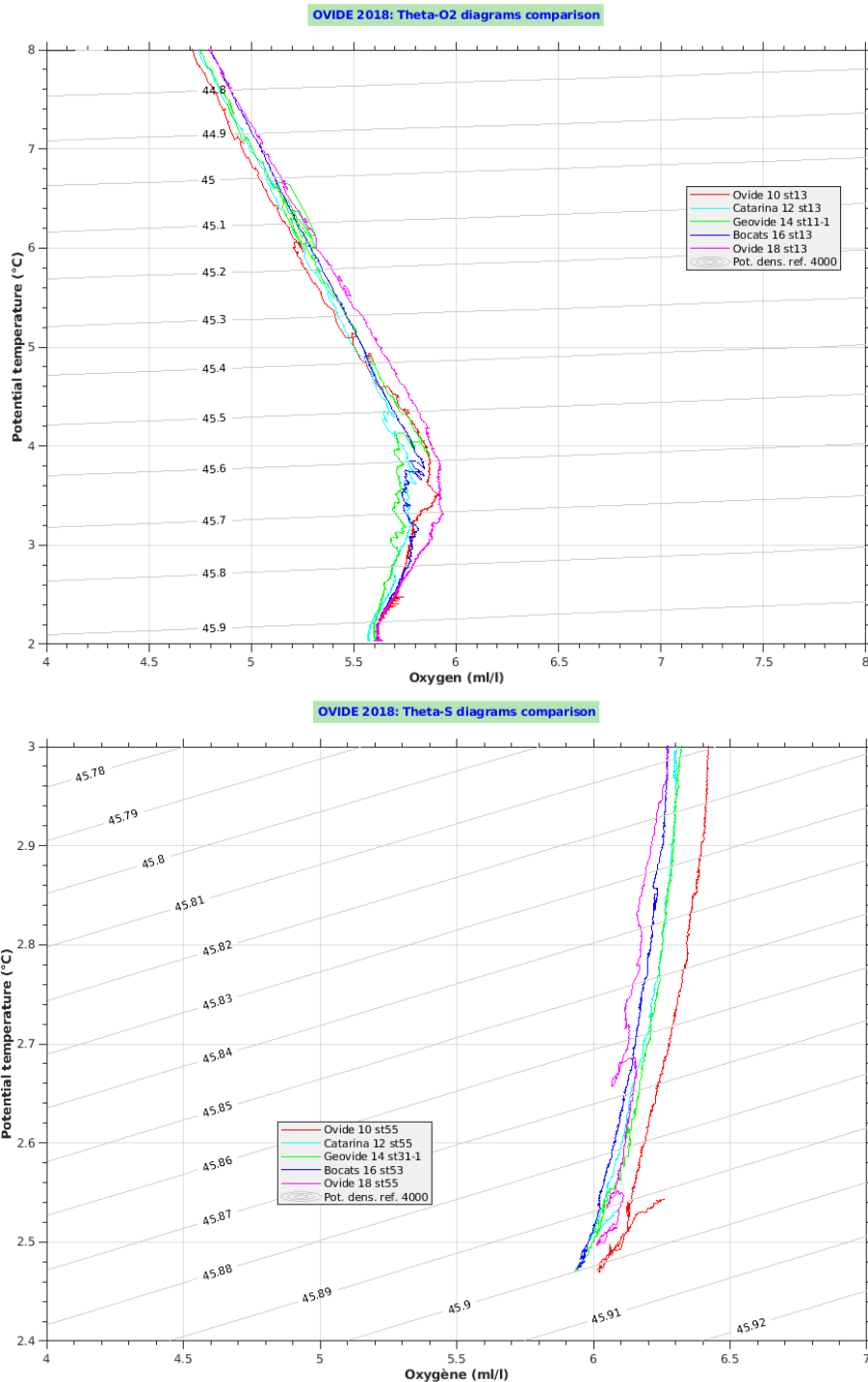


Figure 47: Theta-O₂ comparisons for stations made at (top) 40.333°N 12.223°W in Iberian Abyssal Plain, .and (bottom) 54.762°N 26.125°W in Iceland Basin.

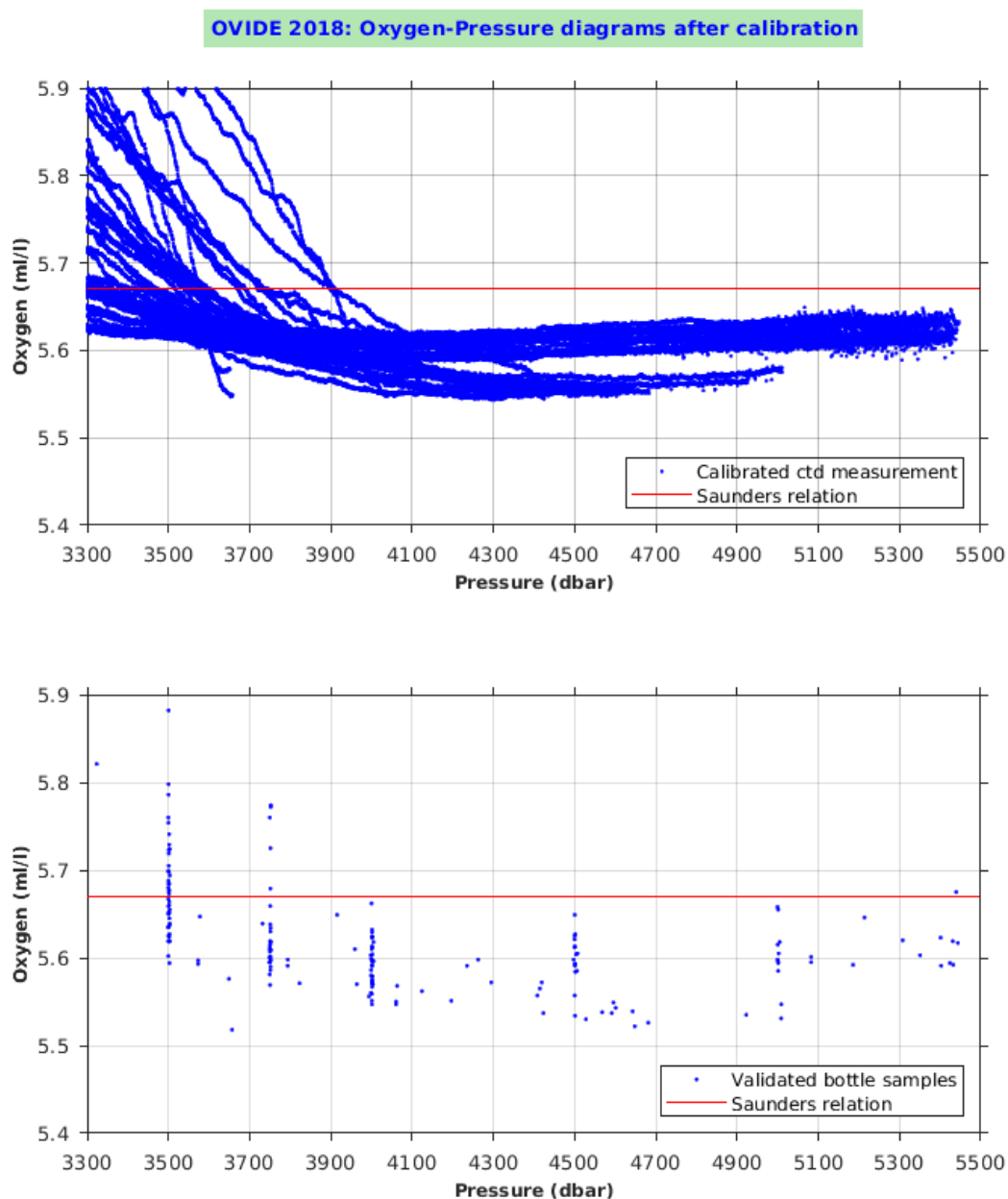


Figure 48: Oxygen - Pressure diagram

Dissolved oxygen measurements (profiles 1 to 52) for the OVIDE cruise at a pressure greater than 3300 dbar:

- a) continuous measurements on the probe downcast profiles,*
- b) "chemistry" measurements obtained on the samples.*

The red line represents the reference value proposed by Saunders (1986) in the NorthEast Atlantic.

Figure 49 shows all theta-O₂ for OVIDE 2018.

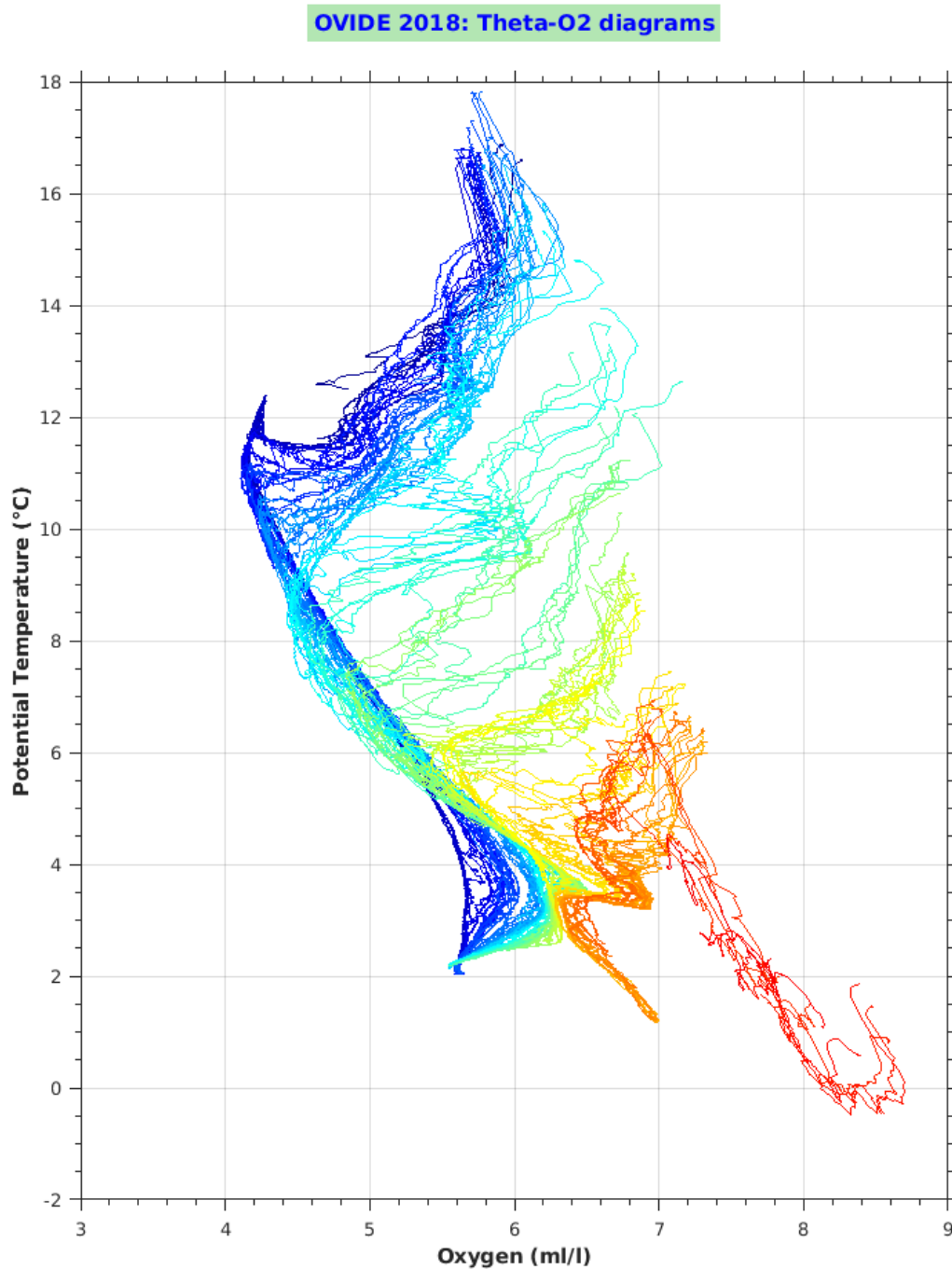


Figure 49: Theta-O₂ diagrams

Theta-O₂ diagrams for stations 1 to 108 of the OVIDE 2018 cruise. The color of the profiles changes gradually from blue to red according to the station number.

3.9. Data reduction

All of the calibration part of the data processing is done based on the total probe measurements at 24 Hz. The data are then reduced to one measurement per decibar and we conserve only the set of sensors (primary or secondary) used during the calibration (for Ovide 2018, secondary sensors).

The elimination of non-validated cycles and the data reduction was carried out using the parameter gradients as elimination criteria:

$$abs((ParamCycle(N)-ParamCycle(N-1))/(PressionCycle(N)-PressionCycle(N-1)))$$

A cycle is validated if the values of the gradients are lower than the selected thresholds. Initially, a determination of the gradient histograms allows us to choose threshold values beyond which the parameters will be rejected. After removal of non-validated cycles, the decimation of the data is performed by calculating, for each integer pressure value, the mean of the parameters on a 1 dbar-layer centered on this value.

The set of criteria used to reduce the probe measurements is described in the document: "Validation et Réduction des données de la sonde SBE9+", C. Kermabon, M. Arhan, Nov 2008.

The options used for the OVIDE 2018 cruise are shown below:

secondary sensors.

Threshold values for stations 1 to 88 and 100 to 122 (open sea):

Echant.	1	Nb val min	6
Seuil P	0.5		
Seuil T, C surf	0.7	Seuil T,C fond	0.2
Seuil O (Volt) surf	0.6	Seuil O (Volt) fond	0.3

Threshold values for stations 8 to 99 and 123 to 136 (shelf):

Echant.	1	Nb val min	6
Seuil P	0.5		
Seuil T, C surf	1.7	Seuil T,C fond	0.5
Seuil O (Volt) surf	0.8	Seuil O (Volt) fond	0.4

The downcast and upcast files were generated in netcdf format:

. ov18d*_cli.nc for the downcasts
. ov18a*_cli.nc for the upcasts

3.10. Validation of the profiles

The Hydro_val software (see Hydro_val: CTD data validation software) first flags as ‘bad’ (QC = 4), the small number of oxygen peaks which were not eliminated during the data reduction.

The second function of hydro_val is to analyze the density inversions in order to flag the corresponding T, S, O₂ data as bad, if necessary.

3.10.1. Validation of the Oxygen profiles

We used different options for downcast and upcast.

The window on the right shows the options used to correct the dissolved oxygen downcast profiles from stations 1 to 98 and 101 to 108.

The screenshot shows the 'Validation oxygene' window. The 'Repertoire des fichiers CLI' is set to '/home/lpo5/pbran/bathys/ovid18/hydro_cal/data'. The 'Repertoire de travail' is set to '/home/lpo5/pbran/bathys/ovid18/hydro_val/data'. The 'Pression Min.' is 2800. The 'Taille de la fenetre' is 80. The 'Nb. std' is 2.7. The 'Ecart min.' is 0.005. The 'Ecart max.' is 1. The 'Nombre d'iteration' is 3. There are 'Valider' and 'Annuler' buttons at the bottom.

The window on the right shows the options used to correct the dissolved oxygen upcast profiles from stations 1 to 98 and 101 to 108.

The screenshot shows the 'Validation oxygene' window. The 'Repertoire des fichiers CLI' is set to '/home/lpo5/pbran/bathys/ovid18/hydro_cal/data'. The 'Repertoire de travail' is set to '/home/lpo5/pbran/bathys/ovid18/hydro_val/data'. The 'Pression Min.' is 2800. The 'Taille de la fenetre' is 80. The 'Nb. std' is 3.4. The 'Ecart min.' is 0.005. The 'Ecart max.' is 1. The 'Nombre d'iteration' is 3. There are 'Valider' and 'Annuler' buttons at the bottom.

List of corrected stations and levels for downcast:

```
-----
| Campagne : OVIDE 2018 |
| Listing des invalidations de mesures Oxygène |
-----
```

**** Invalidations mesures Oxygène (descente) ****

```
-----
| Valeurs des paramètres utilisés |
-----
| Station min. | 8 | Station max. | 108 |
| Pression min. | 2800 | | |
| Taille de la fenetre | 80 | Nb std | 2.7 |
| Ecart min. | 0.005 | Ecart max. | 1 |
| Nombre d'iteration | 3 | | |
-----
```

nombre de flag oxy = 4 : 288

nombre de stations corrigées: 19

liste des stations corrigées:

9 10 11 12 13 14 15 16 17 18 19 20 21 23 27 28 40 77 105

Station	Pressure	Station	Pressure	Station	Pressure	Station	Pressure
9	4068	13	4932	16	4764	19	5226
9	4194	13	4955	16	4767	19	5237
9	4269	13	4956	16	4880	19	5267
9	4270	13	5028	16	4950	19	5268
9	4303	13	5095	16	4972	19	5269
9	4325	13	5112	16	5017	19	5305
9	4336	13	5120	16	5049	19	5350
9	4352	13	5153	16	5097	19	5365
9	4368	13	5171	16	5126	19	5378
10	3141	13	5187	16	5149	19	5379
10	4055	13	5188	16	5151	19	5388
10	4125	13	5206	16	5162	19	5409
10	4141	13	5307	16	5189	20	4750
10	4142	13	5320	16	5214	20	4828
10	4184	13	5338	16	5265	20	4954
10	4245	13	5339	16	5377	20	4961
10	4246	14	4421	16	5388	20	5157
10	4247	14	4460	16	5389	20	5219
10	4306	14	4763	16	5403	20	5257
10	4373	14	4890	16	5429	20	5258
10	4462	14	4959	16	5430	20	5260
10	4480	14	5023	17	4768	20	5271
10	4527	14	5024	17	4769	20	5272
10	4561	14	5025	17	4905	20	5273
10	4564	14	5039	17	4998	20	5313
10	4618	14	5078	17	5015	21	4751
10	4710	14	5093	17	5032	21	4880
10	4750	14	5145	17	5096	21	4960
10	4806	14	5160	17	5154	21	4961
10	4864	14	5218	17	5155	21	4995
10	4865	14	5239	17	5169	23	4742
10	4930	14	5246	17	5184	23	4832
11	4075	14	5276	17	5185	23	4871
11	4571	14	5277	17	5229	23	5000
11	4574	14	5303	17	5239	23	5001
11	4689	14	5310	17	5267	23	5050
11	4810	14	5328	17	5281	23	5063
11	4885	14	5344	17	5282	23	5066
11	4921	14	5345	17	5310	23	5126
11	4934	14	5360	17	5311	23	5127
11	4936	14	5361	17	5313	23	5134
11	4946	14	5377	17	5338	23	5147
11	4953	14	5390	17	5424	23	5183
11	4999	15	5059	18	4766	23	5185
12	4431	15	5074	18	4986	23	5192
12	4632	15	5089	18	4990	27	4735
12	4708	15	5119	18	5132	27	4738
12	4770	15	5133	18	5141	27	4827
12	4803	15	5134	18	5150	27	4828
12	4829	15	5142	18	5183	27	4972
12	4941	15	5149	18	5195	27	4985
12	5021	15	5157	18	5220	28	4817
12	5030	15	5164	18	5227	28	4845
12	5037	15	5250	18	5235	28	4846
12	5038	15	5253	18	5247	40	4407
12	5053	15	5263	18	5264	40	4408
12	5149	15	5277	18	5292	40	4409

12	5156	15	5289	18	5319	40	4410
12	5170	15	5290	18	5383	40	4411
12	5221	15	5291	18	5412	40	4412
12	5246	15	5306	19	4388	40	4413
12	5259	15	5307	19	4828	40	4414
12	5260	15	5325	19	4885	40	4415
12	5261	15	5337	19	4972	40	4416
12	5277	15	5338	19	5135	77	3132
12	5291	15	5354	19	5147	77	3133
12	5300	15	5357	19	5176	77	3134
13	4229	15	5370	19	5177	77	3135
13	4626	15	5385	19	5189	77	3136
13	4855	15	5397	19	5190	77	3137
13	4856	15	5398	19	5200	105	2853
13	4890	15	5423	19	5216	105	2855

List of corrected stations and levels for upcast:

```
-----
| Campagne : OVIDE 2018 |
| Listing des invalidations de mesures Oxygène |
-----
```

**** Invalidations mesures Oxygène (montee) ****

```
-----
| Valeurs des paramètres utilisés |
-----
| Station min. | 1 | Station max. | 108 |
| Pression min. | 2800 |
| Taille de la fenetre | 80 | Nb std | 3.4 |
| Ecart min. | 0.005 | Ecart max. | 1 |
| Nombre d'iteration | 3 |
-----
```

```
nombre de flag oxy = 4 : 11
nombre de stations corrigées: 8
liste des stations corrigées:
6 14 15 16 17 19 20 41
```

Station	Pressure	Station	Pressure	Station	Pressure	Station	Pressure
6	3338	15	4600	19	4509	41	4295
6	3455	16	5446	20	3992	41	4296
14	4595	17	3994	41	4294	0	0

3.10.2. Density inversions

By superposing the reduced file, the adjusted file at 24 Hz and the file before loopedit at 24 Hz on the same graph, we can detect density inversions related to the drag of the probe.

We can see on the graph below (figure 46) that the peak at 1971 and 1972 dbar in T and C corresponds to the measurements recorded by the probe 4.0 dbar previously. This crossed water (blue arrows) was drawn in by the frame and pollutes the sensors when the probe slows down. These inversions are not at all physical: they must be identified and the quality flag is set to 4 (QC = 4) for all the parameters. During the transfer to the .clc.nc files (intermediate format before the multi-cast format), a linear interpolation will be performed at these locations.

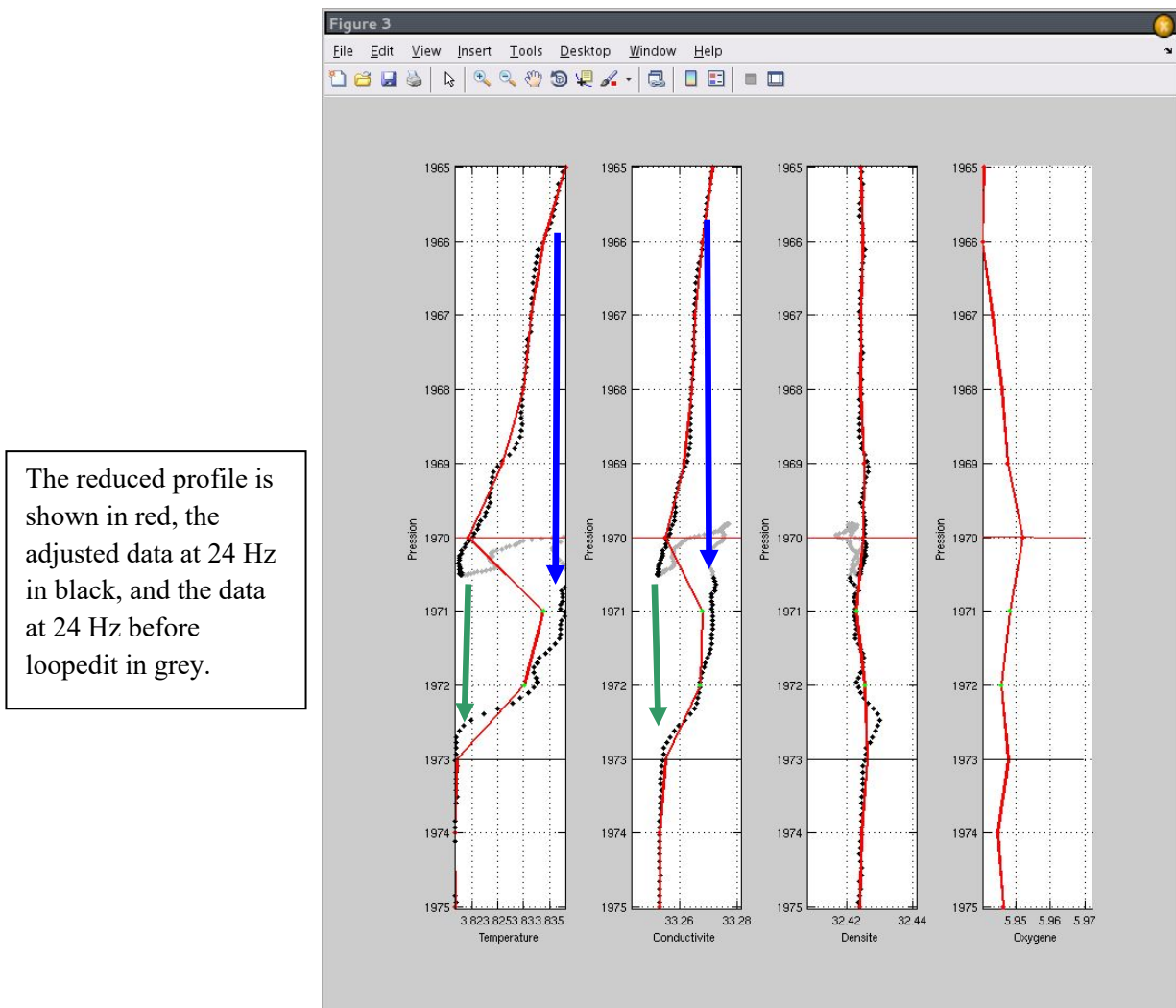


Figure 50: Exemple of invalidation of density inversions.

Hydro_val allows to remove the sensor value (T, C, O2) that will be replaced by a linear interpolation between 1970 dbar and 1973 dbar as shown by the green arrows.

For OVIDE 2018 cruise, we corrected only downcast profiles. Below, the list of stations and levels.

```
-----
| Cruise : OVIDE 2018 |
| List of density anomalies corrections |
-----
```

**** Density anomalies (downcast) ****

number of stations involved: 87
number of density anomalies: 930

Station	Pression	Station	Pression	Station	Pression	Station	Pression
1	117	11	1826	31	839	81	51
2	14	11	1827	32	80	81	65
2	211	11	2098	32	81	81	80
2	212	11	2919	32	82	81	125
2	424	12	42	37	783	81	126
2	427	12	43	37	809	81	135
3	40	12	65	37	810	81	136
3	58	12	147	37	880	81	145
3	59	12	155	37	888	81	146
3	63	12	156	37	889	81	153
3	119	12	173	37	896	81	154
3	379	12	174	37	897	81	155
3	406	12	200	37	1008	81	196
3	407	12	201	37	1009	81	197
3	413	12	311	37	1014	81	198
3	480	12	359	38	96	81	205
3	541	12	514	39	601	81	206
3	752	12	1187	40	489	81	2640
4	71	12	1252	40	498	81	2677
4	72	12	1349	40	505	81	2706
4	75	12	1461	40	506	81	2707
4	76	12	1470	41	63	81	2708
4	187	13	54	42	139	81	2741
4	188	13	75	42	140	81	2840
4	343	13	87	42	269	81	2841
4	361	13	105	43	55	81	2849
4	420	13	216	43	61	81	2850
4	421	13	224	43	77	81	2857
4	456	13	448	43	92	81	2903
4	589	13	493	43	99	81	2904
4	590	13	644	43	623	81	2935
4	599	13	645	47	60	81	2936
4	634	13	691	48	268	81	2939
4	642	13	749	48	331	81	2940
4	643	13	820	49	68	82	59
4	644	13	867	49	355	82	1978
4	650	13	898	51	67	82	2417
4	705	13	1046	51	321	82	2503
4	994	13	1047	51	430	82	2602
4	1012	13	1229	52	222	82	2746
4	1013	13	1400	53	34	83	57
4	1043	13	1401	53	59	83	103
4	1069	13	1471	53	274	83	2435
4	1070	13	1590	53	539	83	2593
4	1078	13	1598	56	398	83	2594
4	1147	13	1702	56	653	83	2602
4	1155	14	44	56	780	83	2660
4	1156	14	51	57	57	84	37
4	1185	14	56	57	74	84	131
4	1284	14	177	57	75	84	132
4	1385	14	185	57	158	84	257
4	1429	14	195	57	159	84	331
5	29	14	226	57	185	84	1992
5	49	14	263	57	489	84	2047
5	55	14	264	57	490	84	2048
5	62	14	323	57	513	84	2120
5	68	14	324	58	36	85	29
5	91	14	366	58	74	85	30
5	92	14	367	58	90	85	36
5	147	14	401	58	241	85	50
5	241	14	402	58	500	85	51
5	249	14	403	58	675	85	55
5	257	14	523	58	676	85	62
5	258	14	541	59	178	85	211
5	265	14	575	59	179	85	246
5	297	14	576	59	400	85	247
5	298	14	614	59	401	85	311
5	437	14	697	59	435	85	312
5	488	14	698	59	444	85	348

5	655	14	719	59	470	85	349
5	663	14	741	60	46	85	458
5	688	14	742	60	52	86	34
5	1000	14	848	60	53	86	81
5	1001	14	1005	60	59	86	82
5	1034	14	1006	60	92	86	101
5	1035	14	1012	60	99	86	102
5	1118	14	1013	60	130	86	109
5	1133	14	1043	60	169	86	117
5	1311	14	1076	60	174	86	118
5	1360	14	1171	60	188	86	199
5	1361	14	1172	60	260	86	1803
5	1537	14	1209	60	299	86	1804
5	1552	14	1217	60	300	87	44
5	1553	14	1218	60	336	87	50
5	1686	14	1260	60	337	87	51
5	1820	14	1282	60	404	87	61
5	1866	14	1309	60	449	87	150
5	1867	14	1310	60	450	87	337
5	1881	14	1488	60	474	87	338
5	2361	14	1489	60	475	87	492
5	2362	14	1620	61	33	90	33
6	42	14	1692	61	55	90	142
6	75	14	1693	61	61	90	149
6	77	14	2128	61	67	90	150
6	78	15	40	61	73	90	156
6	125	15	67	61	379	90	157
6	234	15	72	61	388	91	60
6	417	15	152	61	398	92	43
6	435	15	161	61	399	94	141
6	631	15	190	61	451	101	119
6	675	15	245	61	527	101	127
6	684	15	246	61	611	101	146
6	685	15	421	61	612	101	648
6	692	15	422	61	674	101	649
6	693	15	541	61	675	101	657
6	879	15	550	62	87	101	658
6	923	15	551	62	124	101	659
6	1093	15	571	62	131	101	727
6	1094	15	579	62	155	101	734
6	1230	15	605	62	169	101	735
6	1231	15	606	62	170	101	736
6	1344	15	642	62	188	101	882
6	1345	15	643	62	222	101	1070
6	1394	15	651	62	248	101	1071
6	1395	15	701	62	486	101	1219
6	1413	15	709	62	487	101	1263
6	1414	15	805	62	511	101	1520
6	1421	15	1137	62	512	101	1521
6	1466	15	1216	62	538	101	1591
6	1467	15	1232	62	567	102	56
6	1497	15	1233	62	796	102	91
6	1498	15	1253	62	797	102	132
6	1570	15	1270	63	52	102	150
6	1595	15	1271	63	57	102	761
7	366	15	1323	63	65	102	762
7	389	15	1350	63	71	102	785
7	390	15	1351	64	34	102	786
7	397	15	1455	64	376	103	79
7	398	15	1456	64	377	103	94
7	514	15	1465	64	394	103	331
7	618	15	1577	64	480	103	332
7	672	15	1578	64	489	103	422
7	673	15	1733	64	490	103	469
7	723	15	1838	65	50	103	470
7	1293	16	429	65	323	103	515
7	1432	16	435	65	384	103	516
7	1433	16	443	65	551	103	525
7	1512	16	463	65	552	103	526
7	1600	16	751	65	623	103	527
7	1671	16	759	66	46	103	1153
7	1883	16	760	66	465	103	1154
8	60	16	837	66	527	103	1332
8	285	16	1031	66	528	104	71
8	329	16	1307	66	1055	104	92
8	330	16	1665	66	1056	104	116
8	347	16	1681	67	70	104	161
8	348	17	60	67	190	104	216
8	785	17	149	67	508	104	241
8	886	17	150	67	516	104	297
8	887	17	253	67	1024	104	298
8	945	18	83	68	67	104	426
8	946	18	767	68	73	104	440
8	952	18	1061	68	106	104	441
8	953	19	222	69	66	104	460
8	1390	20	80	69	302	104	461

8	1613	21	79	69	317	104	511
9	76	22	76	69	442	104	512
9	154	22	79	69	647	104	520
9	168	23	18	69	648	104	521
9	239	23	50	69	952	104	550
9	247	23	81	70	70	104	568
9	248	23	84	70	87	104	569
9	298	23	749	71	72	104	576
9	359	24	76	71	83	104	577
9	433	24	79	71	159	104	584
9	485	24	538	71	167	104	585
9	486	24	735	71	240	104	602
9	688	24	781	71	249	104	1102
9	689	24	782	71	250	104	1103
9	733	24	783	71	301	104	1121
9	845	24	877	71	309	104	1122
9	897	24	884	71	310	104	1437
9	898	24	1150	71	367	104	1438
9	1033	24	1271	71	415	105	58
9	1041	24	1272	71	462	105	74
9	1139	25	38	71	463	105	296
9	1140	25	43	71	471	105	297
9	1160	25	59	71	472	105	307
9	1347	25	114	71	480	105	308
9	1401	25	142	71	853	105	619
9	1408	25	143	71	854	105	620
9	1483	25	150	72	120	105	689
9	1516	25	179	72	348	105	699
9	1532	25	600	72	349	105	700
9	1824	25	695	72	369	105	701
9	1825	25	772	72	378	105	841
9	1831	25	846	72	379	105	842
9	1977	25	861	72	412	106	71
10	80	25	862	72	413	106	77
10	83	25	868	72	435	106	558
10	89	25	869	72	436	106	567
10	130	25	877	72	607	106	753
10	131	25	951	72	608	106	754
10	203	25	1060	72	691	106	764
10	204	25	1168	72	1845	106	765
10	481	26	40	72	1846	106	1307
10	482	26	73	73	70	106	1308
10	489	26	1047	73	127	106	1342
10	654	26	1079	73	128	106	1391
10	983	26	1183	73	139	106	1392
10	1332	26	1266	73	140	107	70
10	1340	26	1372	73	228	107	76
10	1341	26	1691	73	229	107	136
10	1347	27	61	73	242	107	143
10	1348	27	67	73	243	107	150
10	1460	27	72	73	264	107	151
10	1592	27	77	73	276	107	181
10	1607	27	755	73	277	107	189
11	36	27	815	73	372	107	190
11	58	27	972	73	511	107	387
11	77	27	999	73	512	107	388
11	120	27	1006	74	145	108	53
11	137	27	1016	74	235	108	54
11	265	27	1361	75	51	108	62
11	315	27	2167	75	57	108	63
11	323	28	32	75	297	108	81
11	324	28	122	75	298	108	82
11	806	28	140	75	3024	108	92
11	847	28	533	76	25	108	117
11	865	28	822	78	80	108	118
11	904	28	959	78	81	108	277
11	912	29	51	78	82	108	278
11	1010	29	59	80	2848	108	331
11	1011	29	194	80	2849	108	340
11	1030	29	195	80	2874	108	341
11	1031	29	947	80	2949	108	376
11	1353	29	1116	80	2950	108	377
11	1389	29	1168	80	3020	108	413
11	1461	30	27	80	3021	108	425
11	1502	30	70	80	3028	108	574
11	1510	31	51	80	3029	108	976
11	1511	31	57	80	3064		
11	1592	31	70	80	3065		

3.11. Accuracy of the OVIDE 2018 measurements

The calibration of the CTD measurements ends with the determination of the accuracy of the different types of measurements (probe, chemistry)

The accuracy given by the manufacturer for the different CTD sensors is:

Pressure	1.0 dbar
Temperature	0.001 °C
Conductivity	0.003 mS/cm
Oxygen	± 2 % of saturation

During the calibration, we determine the accuracy for each sensor from statistical calculation between reference measurements and probe measurements.

The table below shows the accuracies obtained for OVIDE 2018:

Probe Param.	Value	Unit	Chemical Param.	Value	Unit
PRES	1.0	dbar			
TEMP	0.0010	°C			
COND	0.0007	mS/cm			
PSAL	0.0008	psu	CHPSALB	0.0006	psu
OXY	0.017 (0.029)	ml/l	CHOXYLB	0.016	ml/l
OXYK	0.72 (1.26)	µmol/kg	CHOXYKB	0.72	µmol/kg
			CHTMPOB	0.3	°C

For oxygen probe, the values of the accuracy (between parentheses) are modified by the correction of the flags of the oxygen chemical data (cf 3.11).

3.12. Corrections of OVIDE 2018 profiles

Some corrections have been made directly on CTD profiles. Here is the list of corrections.

. station 10

Replacement of temperature, conductivity and oxygen values (primary and secondary sensors) from upcast to downcast, for pressure 4610 dbar to 4715 dbar.

. station 11

Replacement of temperature, conductivity and oxygen values (primary and secondary sensors) from upcast to downcast, for pressure 5122 dbar to 5183 dbar.

. station 34

Replacement of oxygen values, secondary sensors by primary sensors, for pressure 547 dbar to 592 dbar.

. station 39

Replacement of oxygen values, secondary upcast sensor by primary upcast sensor, for pressure 1867 dbar to 300 dbar.

. station 41

Replacement of oxygen values, secondary upcast sensor by primary upcast sensor from bottom to surface.

. station 42

Replacement of oxygen values, secondary downcast sensor by primary downcast sensor, from surface to 369 dbar and for pressure 609 dbar to pressure 612 dbar.

. station 95

Linear interpolation for secondary temperature at 29.9 dbar on downcast.

. station 106

Linear interpolation for secondary temperature at 1308 dbar on upcast.

3.13. Corrections of the flags of the oxygen chemical data.

Using downcast CTD O₂ data at the pressure of the bottle samples to compare with oxygen sample measurements have several advantages:

- we gain precision since the rosette has less influence on the data when it's moving downward.
- we reduce the impact of the hysteresis effect on the oxygen sensor that is never totally corrected (indeed, the influence of the pressure on O₂ measurements is weaker during the downcast than during the upcast).

However, the drawback is that we also don't consider the changes in the water column between the upcast and the downcast. In the upper water column, those changes are mainly due to internal waves that heave the water masses up and down by several tens of meters (Saout-Grit et al., 2015), particularly in the upper water column.

For the OVIDE-BOCATS data, this is not really an issue for the calibration, since we have many samples, and the chemical data that don't match the CTD-O₂ data because of this effect are simply discarded from the calibration. Among the 2196 samples, only 165 were moved out by the calibration because of a too large discrepancy with the probe data. However, the side effect is that these chemical data were flagged bad, although 96 were actually within 3 standard deviation from the profile if we consider either the upcast data or the downcast data adjusted in density.

Since chemical data are distributed and widely used (particular by biogeochemists), it is important to flag the data the best we can. This is why CTD-O₂ data and flags of chemical oxygen data are corrected after calibration in the final chemical database by associating the sample measurement to its best match with CTD data between (i) the downcast point adjusted in pressure (i) the downcast point adjusted in density and (iii) the upcast point at the effective level where the bottle was closed. This way, 96 chemical data were rehabilitated, leaving only 69 data flagged bad.

This processing improved also greatly the histogram of the difference between CTD and chemical data, with a standard deviation down to 0.8 instead of 1.2 $\mu\text{mol.kg}^{-1}$, similar to the 0.72 $\mu\text{mol.kg}^{-1}$ value found for replicates in section 3.3.3. So an accuracy of 1 $\mu\text{mol.kg}^{-1}$ could be claimed on oxygen CTD data.

Note finally that those correction don't affect the calibration results and that the CTD-O₂ oxygen profiles were not corrected. The above changes appear:

- in the ascii and excel sheet of the chemical data.
- in the chemical data of the the multi-station netcdf file (variables CHPOXYLP, CHOXYLB_QC, CHPOXYKP, CHOXYKB_QC).

Chemical data in the cli and clc netcdf files have not been changed.

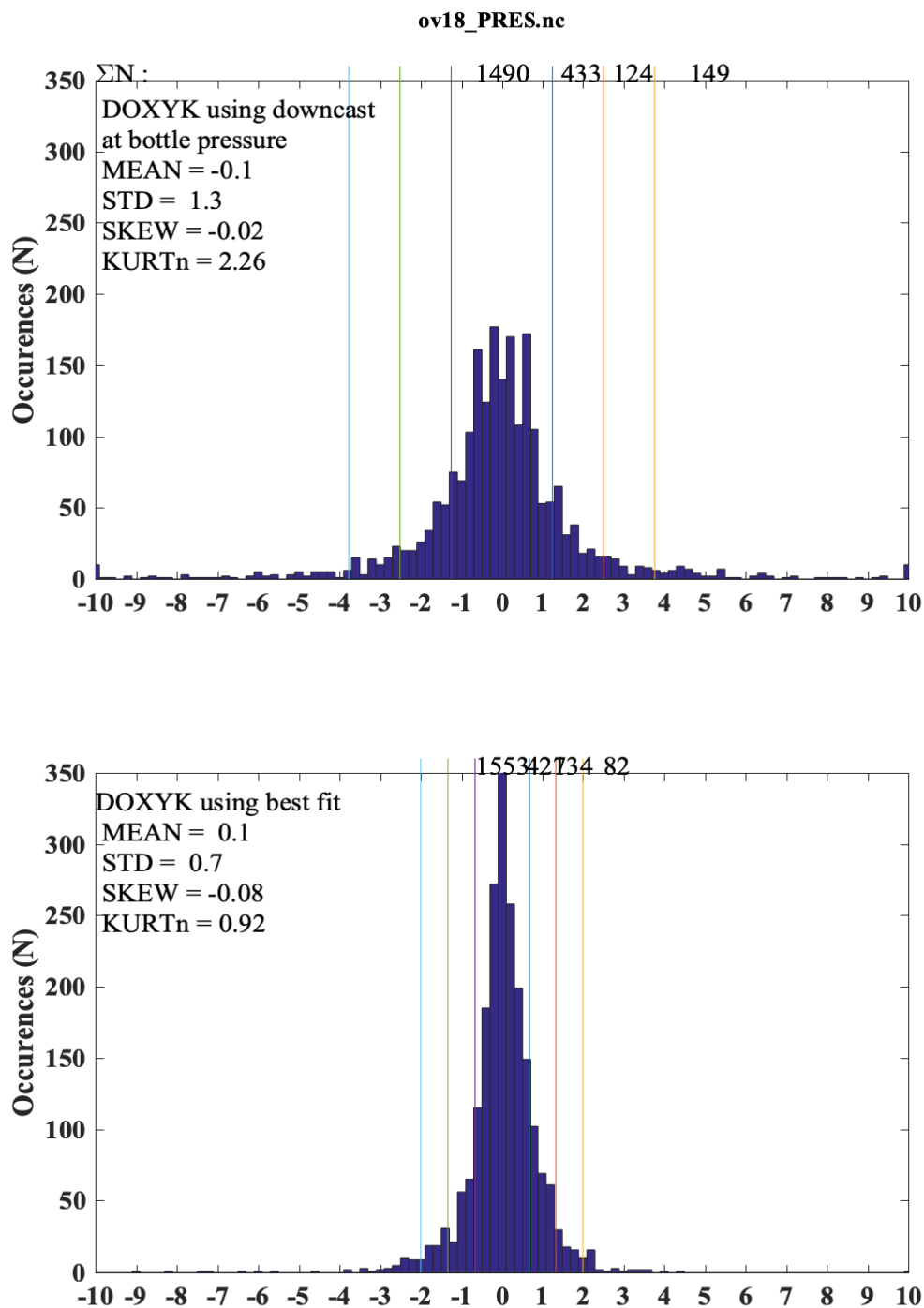


Figure 51: Histogram of the oxygen difference between the chemical measurements flagged good and the probe data, in $\mu\text{mol.kg}^{-1}$, (a) using only downcast data at the bottle pressure level, and (b) using the best match between chemical and probe data by using either upcast data, downcast data at the bottle pressure level or downcast data at the bottle density level

4. Bibliography

- Bacon, S., Snaith H., Yelland M., 1999. An evaluation of some recent batches of IAPSO standard seawater. *Journal of Atmospheric and Oceanic Technology*: Vol. 17, No. 6, pp. 854–861.
- Benson, B.B. and D. Krause, Jr., 1984. The concentration and isotopic fractionation of oxygen dissolved in freshwater and seawater in equilibrium with the atmosphere. *Limnol. Oceanogr.*, 29 (3), 620-632.
- Branellec, P., Lherminier P. . Campagne OVIDE 2006, rapport de données CTD-O₂. Rapport interne DRO/DOPS/LPO 09-03.
- Branellec, P., Ferron B., Lherminier P.. Campagne OVIDE 2008, rapport de données CTD-O₂. Rapport interne ODE/OPS/LPO 11-03.
- Daniault, N., H. Mercier, P. Lherminier, **2011**: The 1992-2009 transport variability at the south east tip of Greenland from in situ measurements and altimetry. *Geophysical Research Letters*, 38, L07601, [doi:10.1029/2011GL046863](https://doi.org/10.1029/2011GL046863), OpenAccessVersion <http://archimer.ifremer.fr/doc/00033/14467/11763.pdf>. Selected as a research spotlight by AGU.
- Daniault, N., P. Lherminier, H. Mercier, **2011**: Circulation and transport at the south east tip of Greenland. *J. Phys. Oceanogr.*, 41, 437-457. [doi:10.1175/2010JPO4428.1](https://doi.org/10.1175/2010JPO4428.1).
- De Boissésou, E., V. Thierry, H. Mercier, **2010**: Mixed layer heat budget in the Iceland Basin from Argo. *J. Geophys. Res. Oceans*, 115, C10055, [doi:10.1029/2010JC006283](https://doi.org/10.1029/2010JC006283). Open Access Version <http://archimer.ifremer.fr/doc/00017/12807/9761.pdf>.
- De Boissésou, E., V. Thierry, H. Mercier, G. Caniaux, and D. Desbruyères (2012), Origin, formation and variability of the Subpolar Mode Water located over the Reykjanes Ridge, *J. Geophys. Res.*, 117, C12005, [doi:10.1029/2011JC007519](https://doi.org/10.1029/2011JC007519).
- Desbruyères, D., V. Thierry, and H. Mercier (2013), Simulated decadal variability of the meridional overturning circulation across the A25-Ovide section, *J. Geophys. Res. Oceans*, 118, [doi:10.1029/2012JC008342](https://doi.org/10.1029/2012JC008342).
- Ferron, B., **2011**: A 4D-variational approach applied to an eddy-permitting North Atlantic configuration: Synthetic and real data assimilation of altimeter observations. *Ocean Modelling*, 39, 370-385, [doi:10.1016/j.ocemod.2011.06.001](https://doi.org/10.1016/j.ocemod.2011.06.001)
- Forget, G., B. Ferron, H. Mercier, **2008**: Combining ARGO profiles with a general circulation model in the North Atlantic. Part I: estimation of hydrography and circulation anomalies from synthetic profiles over a year. *Ocean Modelling*, [doi:10.1016/j.ocemod.2007.06.001](https://doi.org/10.1016/j.ocemod.2007.06.001) or Open Access Version <http://archimer.ifremer.fr/doc/2008/publication-3721.pdf>.
- Forget, G., B. Ferron, H. Mercier, **2008**: Combining ARGO profiles with a general circulation model in the North Atlantic. Part II: realistic transports and improved hydrography between spring 2002 and spring 2003. [doi:10.1016/j.ocemod.2007.06.002](https://doi.org/10.1016/j.ocemod.2007.06.002) or Open Access Version <http://archimer.ifremer.fr/doc/2008/publication-3920.pdf>.
- Forner, Sandra, 2005 : Utilisation des CFC et du CCL4 dans l'étude de la circulation profonde de l'Atlantique Nord. Manuscrit de thèse de doctorat de 3eme cycle, Université de Bretagne Occidentale, IUEM/LCM, Brest, France.
- Gourcuff, C., P. Lherminier, H. Mercier, P. Y. LeTraon, **2011**: Altimetry combined with hydrography for ocean transport estimation. *J. Atmosph. Ocean. Tech.*, 28, 1324-1337, [doi: 10.1175/2011JTECH0818.1](https://doi.org/10.1175/2011JTECH0818.1).
- Huck, T., A. Billant, P. Branellec. OVIDE 2004, rapport de données CTD-O₂. Rapport interne DRO/DOPS/LPO 06-01.
- Lherminier, Pascale, Herlé Mercier, Claire Gourcuff, Marta Alvarez, Sheldon Bacon, Catherine Kermabon, **2007**: Transports across the 2002 Greenland-Portugal OVIDE section and comparison with 1997. *J. Geophys. Res.*, 112(C7), C07003, [doi:10.1029/2006JC003716](https://doi.org/10.1029/2006JC003716) or Open Access Version <http://archimer.ifremer.fr/doc/2007/publication-3296.pdf>.
- Lherminier, Pascale, Herlé Mercier, Thierry Huck, C. Gourcuff, F. F. Perez, P. Morin, A. Sarafanov, 2010: The Atlantic meridional overturning circulation and the subpolar gyre observed at the A25-Ovide section in June 2002 and 2004. *Deep Sea Res. I*. Publisher's official version : <http://dx.doi.org/10.1016/j.dsr.2010.07.009>, Open Access : <http://archimer.ifremer.fr/doc/00011/12272/>

- Mantyla, A. W., 1993. The treatment of inconsistencies in Atlantic deep water salinity data. *Deep-Sea Res.*, 41, 1387–1405.
- Mercier, H., Billant A., Branellec P., Morin P., Messias M.J., Memery L., Thomas C, Honnorez J. Campagne Romanche 1 : Données CTD-O₂, Chimie et Bathymétrie. Rapport Interne LPO 92-02.
- Mercier, H., A. Billant, P. Branellec. OVIDE 2002, rapport de données CTD-O₂. Rapport interne DRO/DOPS/LPO 04-01.
- Mercier, Herlé, Pascale Lherminier, Artem Sarafanov, Fabienne Gaillard, Nathalie Daniaux, Damien Desbryères, Anastasia Falina, Bruno Ferron, Claire Gourcuff, Thierry Huck, Virginie Thierry, 2015: Variability of the meridional overturning circulation at the Greenland-Portugal OVIDE section from 1993 to 2010. *Progress in Oceanography*, 132, 250–261, doi:10.1016/j.pocean.2013.11.001
- Millard, R.C., 1982. CTD calibration and data processing techniques at WHOI using the 1978 practical salinity scale. International STD Conference and Workshop, San Diego (8-11 February 1982).
- Pérez, F. F., M. Vázquez-Rodríguez, H. Mercier, A. Velo, P. Lherminier, and A. F. Ríos, **2010**: Trends of anthropogenic CO₂ storage in North Atlantic water masses. *Biogeosciences*, 7, 1789-1807, doi:10.5194/bg-7-1789-2010.
- Pérez, F. F., M. Vázquez-Rodríguez, E. Louarn, X. A. Padin, H. Mercier, A. Ríos, **2008**: Temporal trends of the anthropogenic CO₂ storage in the Irminger Sea. *Biogeosciences*, 5, 1669-1679, doi:10.5194/bg-5-1669-2008.
- Sarafanov, A. H. Mercier, A. Falina, A. Sokov, P. Lherminier, **2010**: Cessation and partial reversal of deep water freshening in the northern North Atlantic: observation-based estimates and attribution. *Tellus A*, 62A, 80-90, doi:10.1111/j.1600-0870.2009.00418.x.
- Saout-Grit, C., A. Ganachaud, C. Maes, L. Finot, L. Jamet, F. Baurand and J. Grelet, 2015: Calibration of CTD oxygen data collected in the Coral Sea during 2012 Bifurcation cruise. *Mercator Ocean–Coriolis Quartely Newsletter – Special Issue #52*-May 2015, p. 34–38.
- Sarafanov, A., A. Falina, P. Lherminier, H. Mercier, A. Sokov, C. Gourcuff, **2010**: Assessing decadal changes in the deep western boundary current absolute transports southeast of Cape Farewell (Greenland) from hydrography and altimetry. *J. Geophys. Res. Oceans*, 115, C11003, doi:10.1029/2009JC005811 .
- Sarafanov, A., A. Falina, H. Mercier, P. Lherminier, A. Sokov, **2009**: Recent changes in the Greenland-Scotland overflow-derived water transport inferred from hydrographic observations in the southern Irminger Sea. *Geophysical Research Letters*, 36, L13707, doi:10.1029/2009GL038041.
- Sarthou, Geraldine, Lherminier Pascale, Fernandez Perez Fiz, Treguer Paul, Grossteffan Emilie, Le Goff Manon, Dehairs Frank, Achterberg Eric Pieter, La Roche Julie, Boyle Edward, Henderson Gideon, Vance Derek, Lacan Francois, Cossa Daniel, Heimbuerger Lars-Eric, Tang Yi, Stewart Gillian, Castrillejo Maxi, Roca Marti Montserrat, Masque Pere, Jeandel Catherine, Planquette Helene, Cheize Marie, Van Beek Peter, Lemaitre Nolwenn, Planchon Frederic, De La Rocha Christina, Sutton Jill, Shelley Rachel, Sanial Virginie (2015). [GEOVIDE cruise report: 15 May - 30 June 2014 on board R/V Pourquoi Pas?](#)
- Saunders, P.M., 1986. The accuracy of measurement of salinity, oxygen and temperature in the deep ocean. *J. Phys. Oceanogr.*, 16, 189-195.
- The GO-SHIP Repeat Hydrography Manual : A Collection of Expert Reports and Guidelines. IOCCP Report No. 14, ICPO Publication Series No. 134, Version 1, 2010.
- Thierry, Virginie, Eric de Boisséson, Herlé Mercier **2008**: Interannual variability of the Subpolar Mode Water properties over the Reykjanes Ridge during 1990-2006. *J. Geophys. Res.*, 113, C04016, doi:10.1029/2007JC004443 or Open Access Version <http://archimer.ifremer.fr/doc/2007/publication-3487.pdf>.
- Treguer, A. M., C. Gourcuff, P. Lherminier, H. Mercier, B. Barnier, G. Madec, J. M. Molines, T. Penduff, L. Czeschel, C. Böning, 2005 : Internal and forced variability along a section between Greenland and Portugal in the CLIPPER Atlantic model. *Soumis à Ocean Dynamics*.
- UNESCO, 1981. Background papers and supporting data on the Practical Salinity Scale, 1978. UNESCO Technical Papers in Marine Science, n° 37, 144 p.
- Våge, K., Robert S. Pickart, Artem Sarafanov, Øyvind Knutsen, Herlé Mercier, Pascale Lherminier, Hendrik M. van Aken, Jens Meincke, Detlef Quadfasel, **2011** : The Irminger gyre : circulation, convection and interannual variability. *Deep Sea Res. I.*, 58, 590-614, doi:10.1016/j.dsr.2011.03.001.

WOCE Operations Manual - Volume 3 : The Observational Programme Section 3.1 WOCE Hydrographic Programme - Part 3.1.3 : WHP Operations and Methods. WOCE Report n° 68/91 - July 1991. Part 3.1.2 : Requirements for WHP Data Reporting – May 1994.

LOPS technical notes:

Branellec, P. M. Hamon. Etude d'un choc thermique sur le capteur de pression d'une sonde CTD SBE911+, (nov 2009).

Hamon, M., L. Marié, J.P. Gouillou. Documentation technique de la carte Rosette (janv. 2008).

Kermabon, C. : Mise en place du post-processing des données CTD (oct. 2007).

Kermabon, C., M. Arhan. Validation et réduction des données de la sonde SBE9+. Rapport interne OPS/LPO, 2008.

Kermabon, C., P. Le Bot, V. Thierry, P. Lherminier. Logiciel de nettoyage des données CTD : Hydro_net. Rapport interne ODE/LPO, 2012.

Kermabon, C., P. Le Bot, V. Thierry, P. Lherminier, P. Branellec. Logiciel d'ajustage des données CTD : Hydro_cal. Rapport interne ODE/LPO, 2012.

Kermabon, C., P. Le Bot, V. Thierry, P. Lherminier. Logiciel de validation des données CTD : Hydro_val. Rapport interne ODE/LPO, 2012

Kermabon, C., P. Le Bot, V. Thierry, P. Lherminier, P. Branellec. CADHYAC Chaîne d'Ajustage des Données d'HYdrologie après Campagne. Rapport interne ODE/LPO, 2015-36.

5. Listings and figures of the CTD parameters

5.1. Remarks

a) Description of the profiles:

1. The latitude and longitude indicate the positioning of the ship at the beginning of the descent profile.
2. The depth indicated is a calculation obtained by summing the maximum pressure (in meters) reached by the CTD and the bottom-pinger distance.

b) The temperature, salinity and dissolved oxygen measurements come from the downcast profile of the ctd.

c) The measurements shown are extracted from the files of type `_clc.nc`, the listed levels are:

- . the first level
- . every 10 dbar up to 50 dbar
- . every 50 dbar from 50 dbar to the bottom
- . the last level

d) For the missing pressure levels (mean not calculated in the data acquisition), the measurements are interpolated. Near the surface, the measures are extrapolated up to level 1 by copying those of the first reduced level.

e) Listings and plots show the results as a function of the pressure (expressed in dbar).

f) The profiles are numbered sequentially from 1 to 98 and 101 to 108.

5.2. Section plots

Les lignes noires épaisses apparaissant sur les graphes correspondent aux valeurs de densité $\sigma_t=32.33$ et $\sigma_t=32.36$.

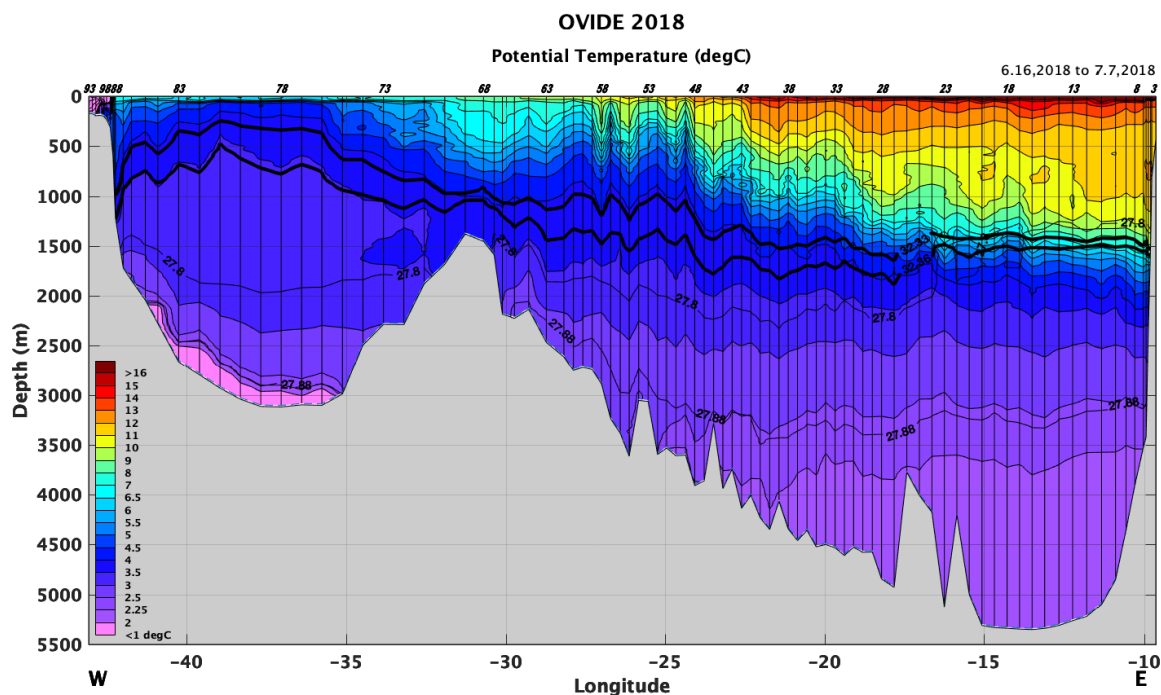


Figure 52: Potential Temperature

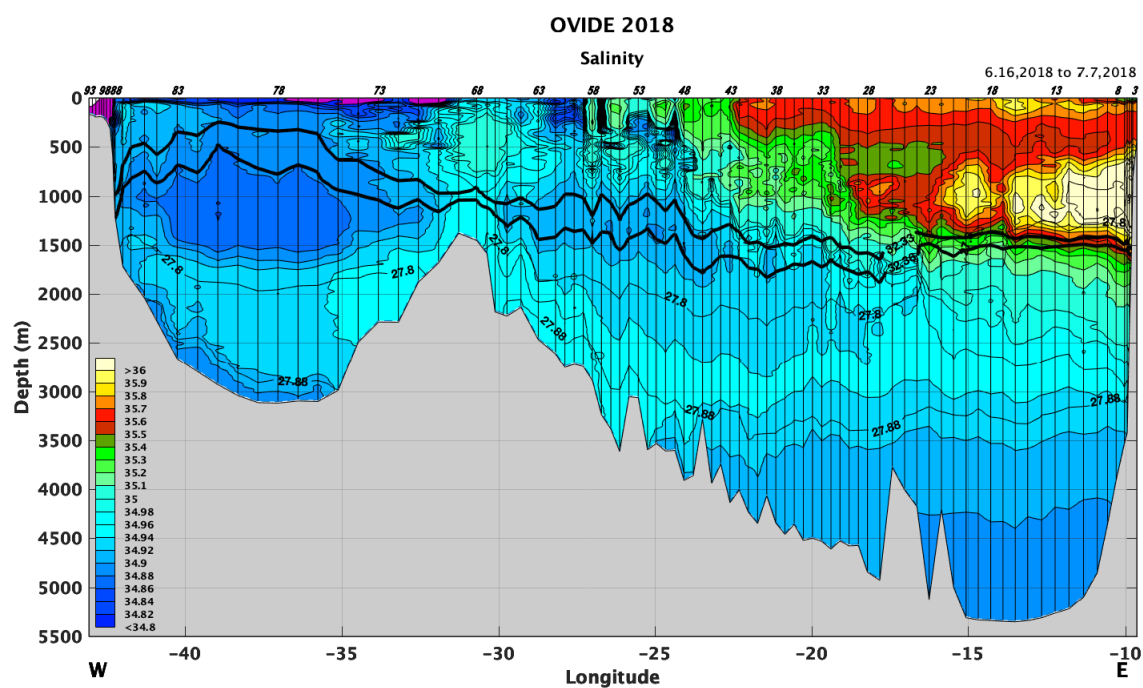


Figure 53: Salinity

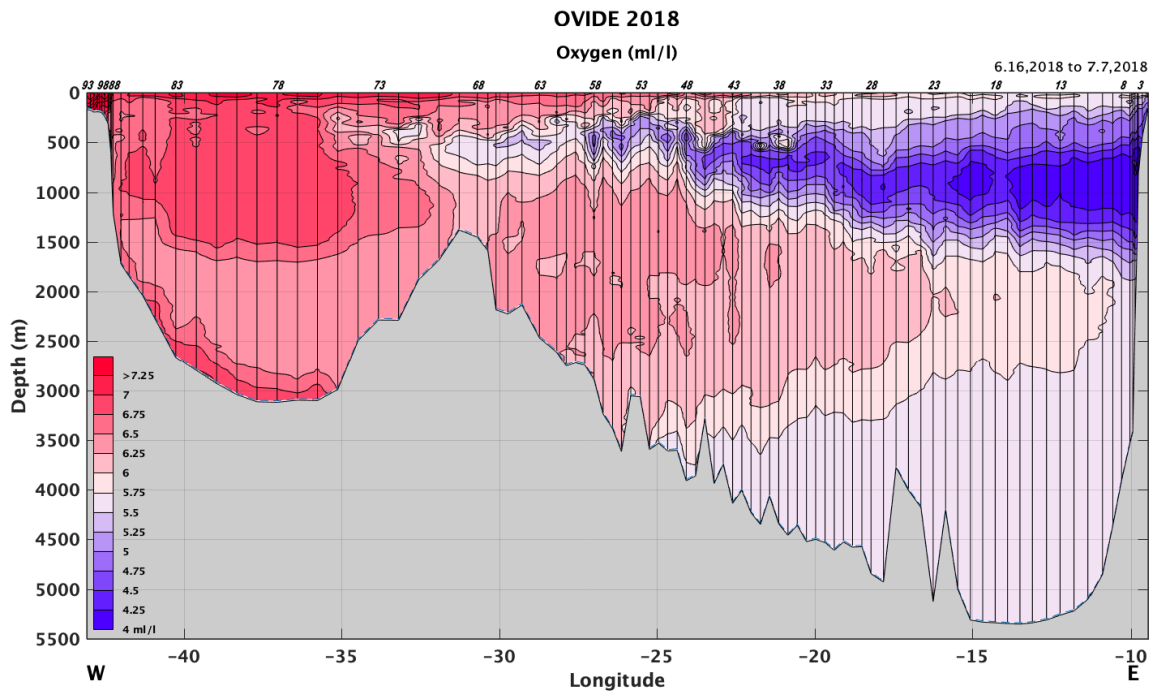


Figure 54: Oxygen (ml/l)

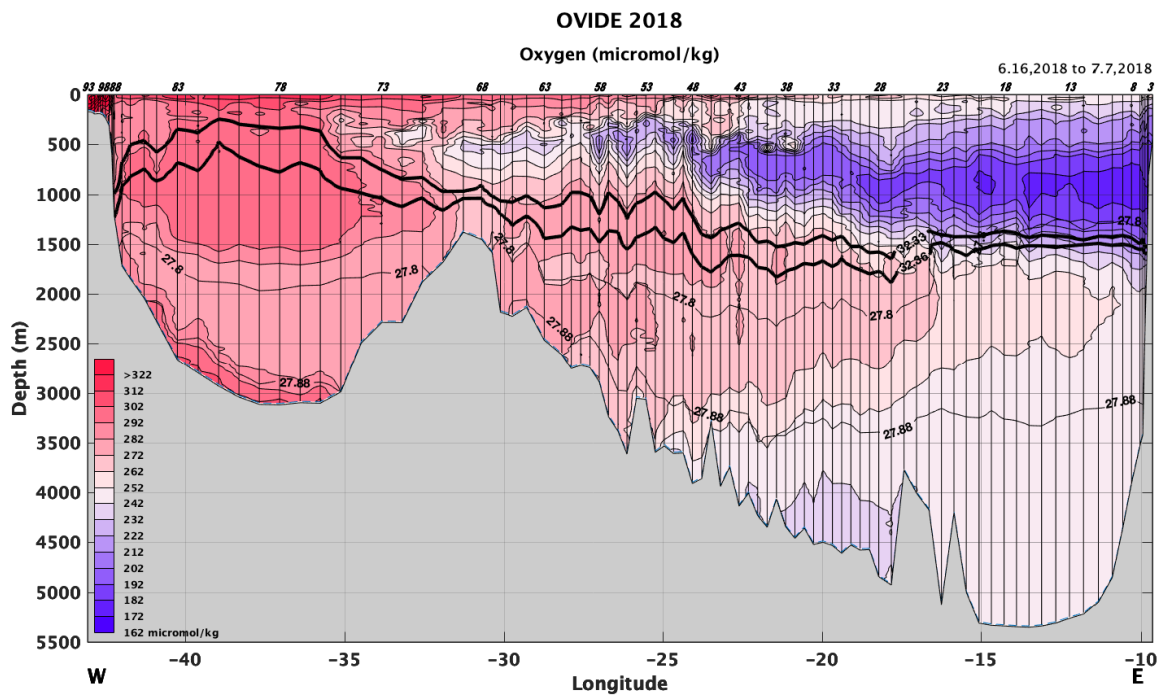


Figure 55: Oxygen ($\mu\text{mol/kg}$)

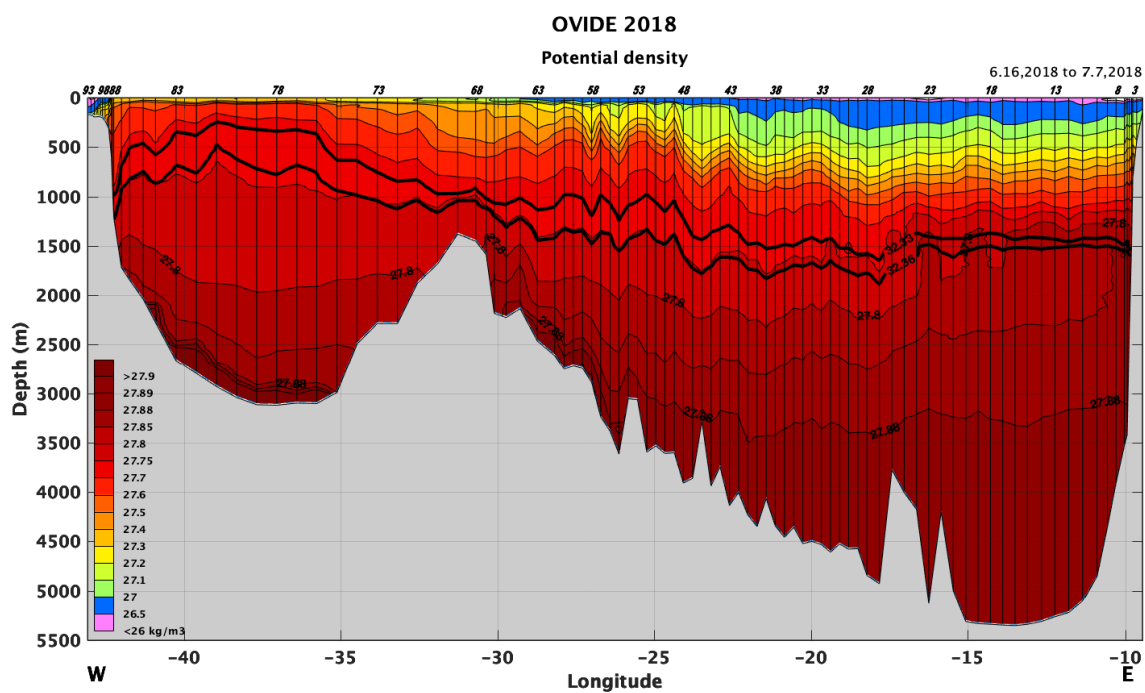


Figure 56: Potential density

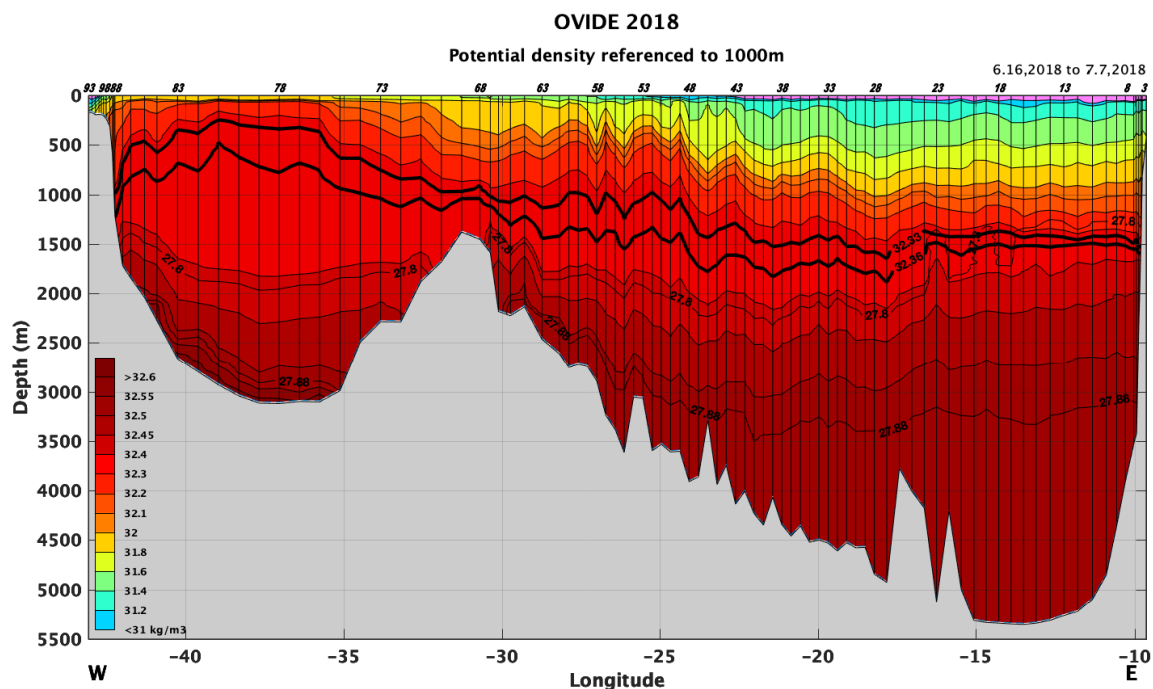


Figure 57: Potential density (ref 1000m)

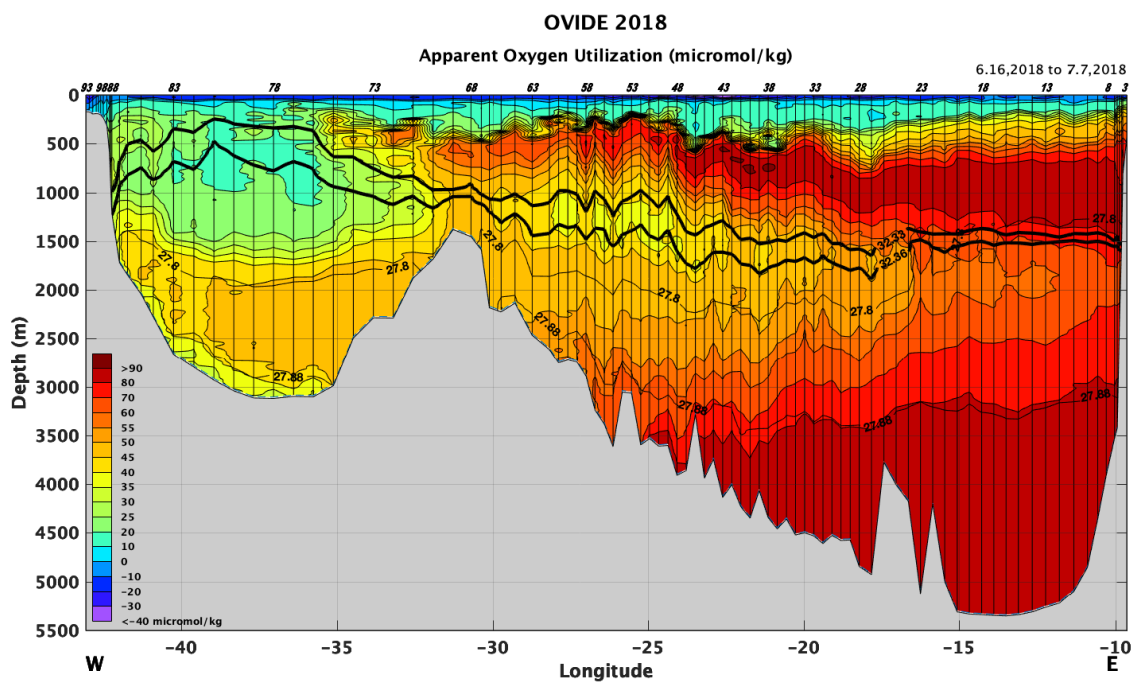


Figure 58: Apparent Oxygen Utilization

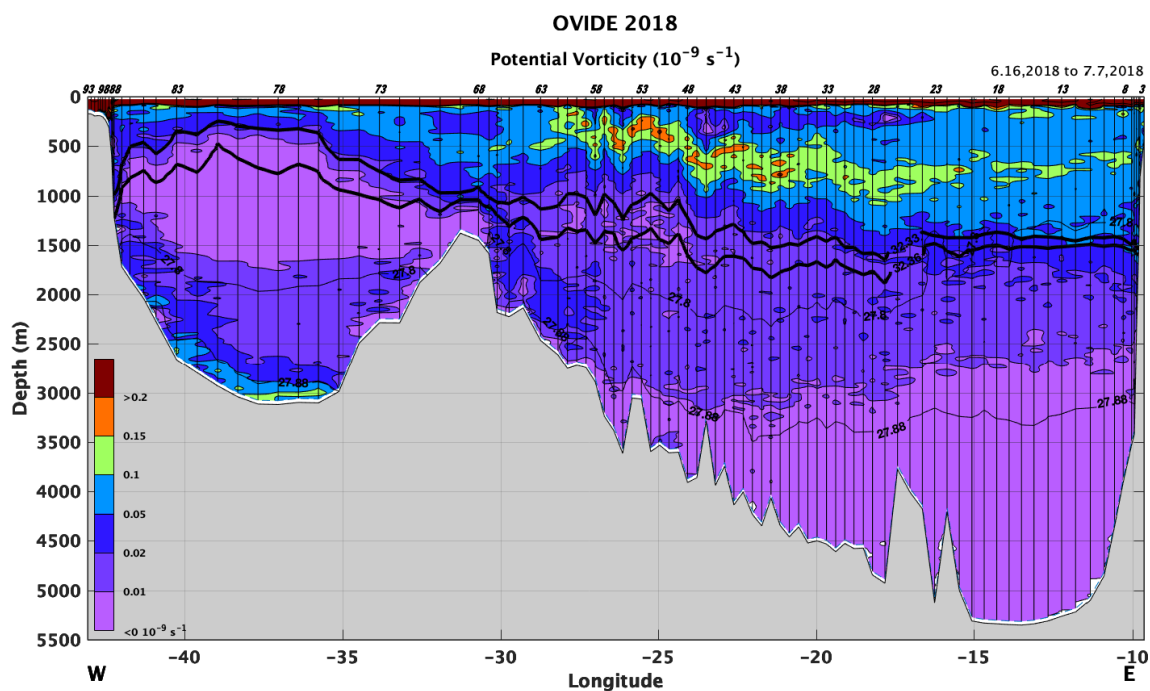


Figure 59: Potential vorticity

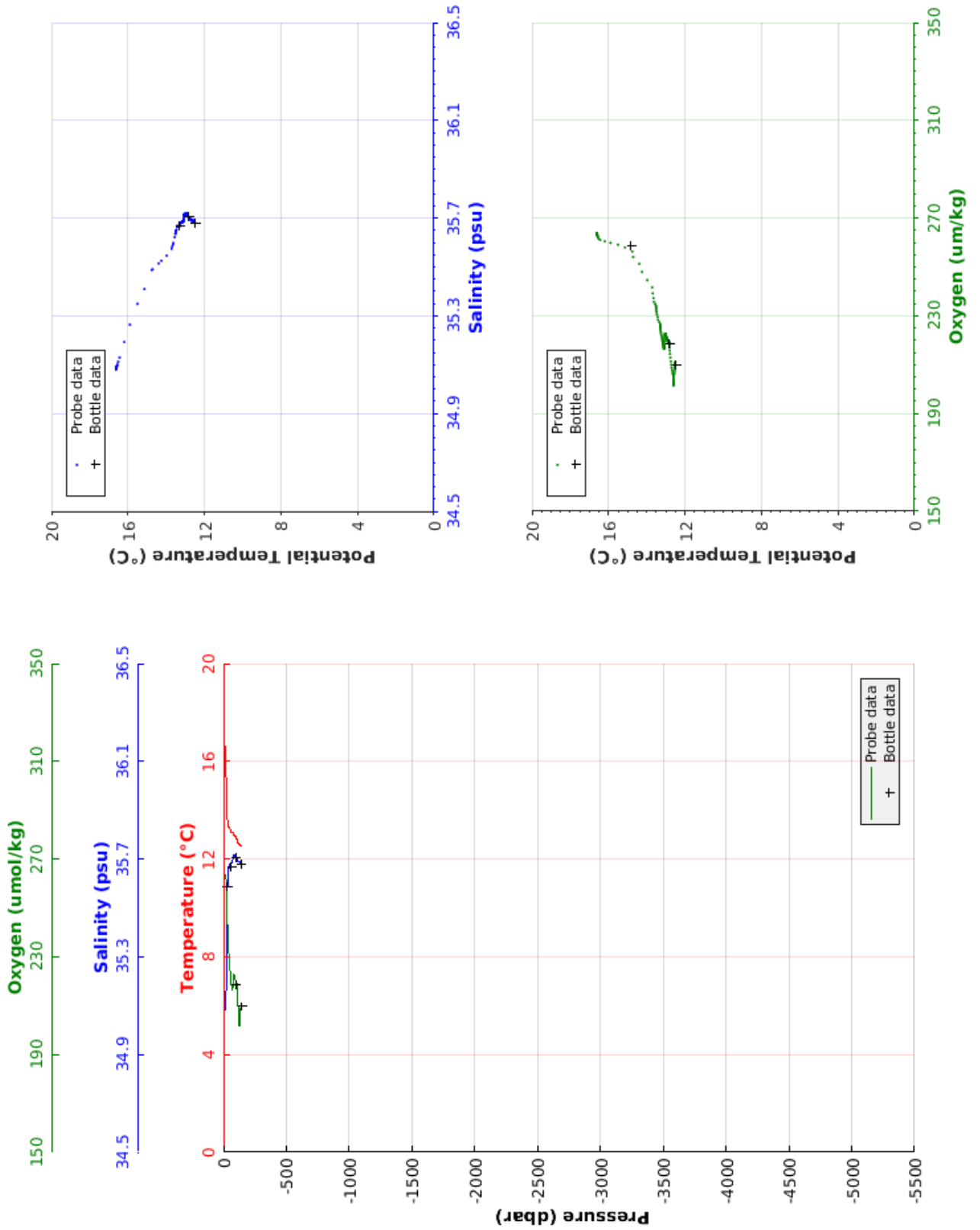
5.3. Listings and figures


```

-----
| Cruise      : OVIDE 2018
| Station    : 1          Cast      : 1
| Date       : 16/06/2018   Ship    : N/O THALASSA
| Depth      : 152 m       Organism : IFREMER
| Position   : N 40 19.90
|             W 009 27.61
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.617	35.083	263.7	16.617
10.0	16.613	35.085	263.4	16.612
20.0	15.894	35.264	259.8	15.891
30.0	13.660	35.591	237.2	13.655
40.0	13.418	35.668	228.4	13.413
50.0	13.270	35.678	223.5	13.263
100.0	12.862	35.705	219.2	12.848
141.0	12.520	35.682	211.1	12.501



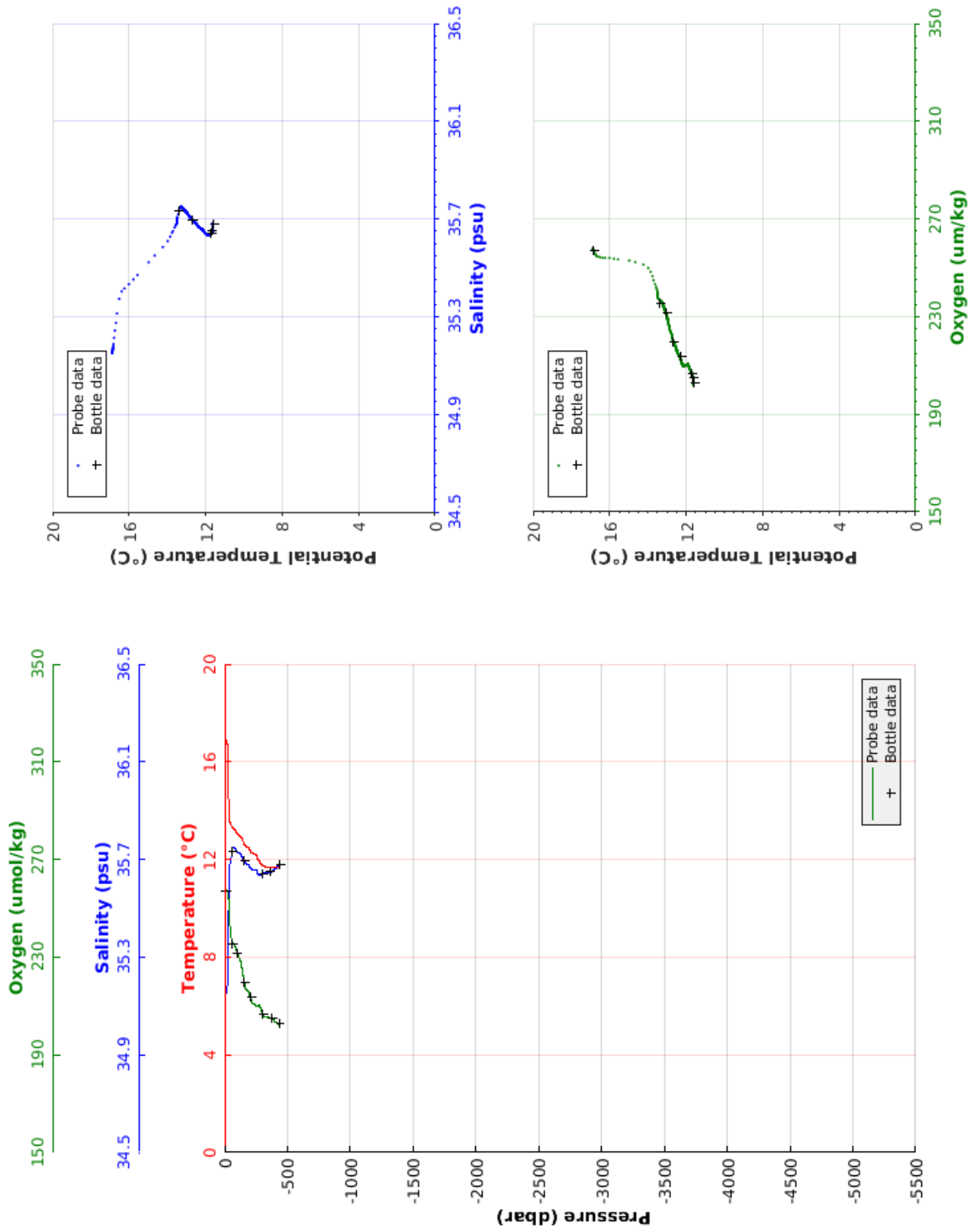
Station: 1

```

-----
| Cruise      : OVIDE 2018
| Station    : 2          Cast      : 1
| Date       : 16/06/2018   Ship       : N/O THALASSA
| Depth      : 440 m       Organism  : IFREMER
| Position   : N 40 19.96
|             W 009 38.59
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.869	35.153	257.8	16.869
10.0	16.871	35.151	257.2	16.869
20.0	16.788	35.213	255.9	16.785
30.0	14.983	35.522	252.9	14.978
40.0	13.521	35.682	240.5	13.515
50.0	13.474	35.707	237.4	13.467
100.0	13.053	35.730	231.1	13.039
150.0	12.684	35.694	219.9	12.664
200.0	12.378	35.666	214.1	12.351
250.0	12.197	35.655	209.9	12.164
300.0	11.759	35.642	206.8	11.720
350.0	11.701	35.648	205.3	11.656
400.0	11.667	35.663	203.3	11.615
432.0	11.663	35.678	202.1	11.607



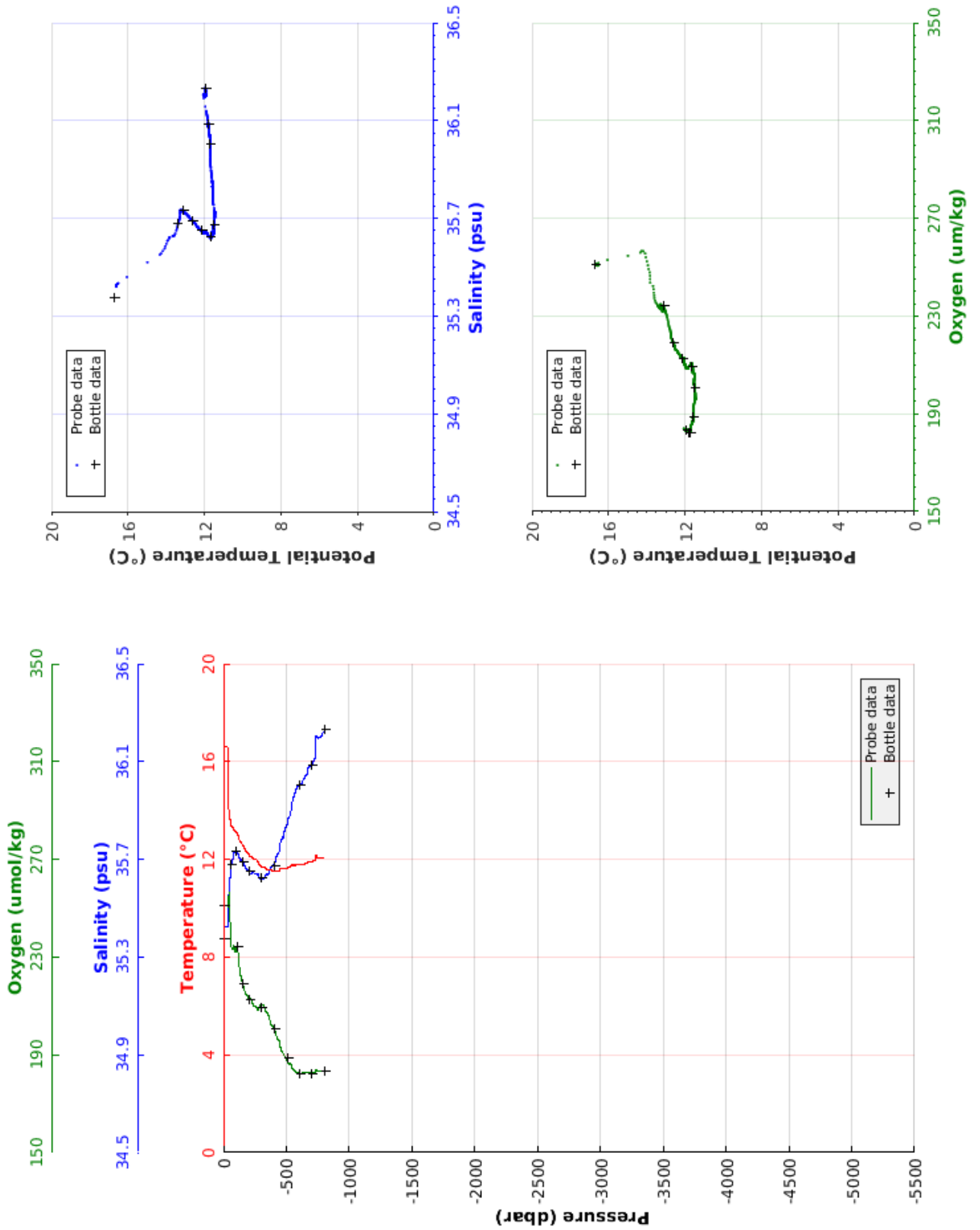
Station: 2

```

-----
| Cruise      : OVIDE 2018
| Station     : 3           Cast      : 1
| Date        : 16/06/2018   Ship       : N/O THALASSA
| Depth       : 806 m       Organism  : IFREMER
| Position    : N 40 20.01
|              W 009 46.02
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.613	35.424	250.7	16.613
10.0	16.616	35.424	251.0	16.614
20.0	16.618	35.424	250.9	16.614
30.0	16.615	35.425	250.9	16.610
40.0	14.177	35.566	256.5	14.172
50.0	13.678	35.626	242.3	13.671
100.0	13.138	35.732	233.8	13.124
150.0	12.614	35.688	218.8	12.594
200.0	12.227	35.652	213.1	12.201
250.0	12.007	35.643	209.8	11.974
300.0	11.714	35.620	210.6	11.675
350.0	11.564	35.635	206.5	11.519
400.0	11.534	35.679	200.4	11.482
450.0	11.595	35.767	192.9	11.537
500.0	11.642	35.831	188.0	11.577
550.0	11.762	35.941	184.0	11.690
600.0	11.791	36.004	182.5	11.712
650.0	11.826	36.042	182.6	11.739
700.0	11.892	36.083	182.8	11.798
750.0	12.059	36.196	183.4	11.957
800.0	12.054	36.223	183.3	11.946
804.0	12.070	36.233	183.3	11.961



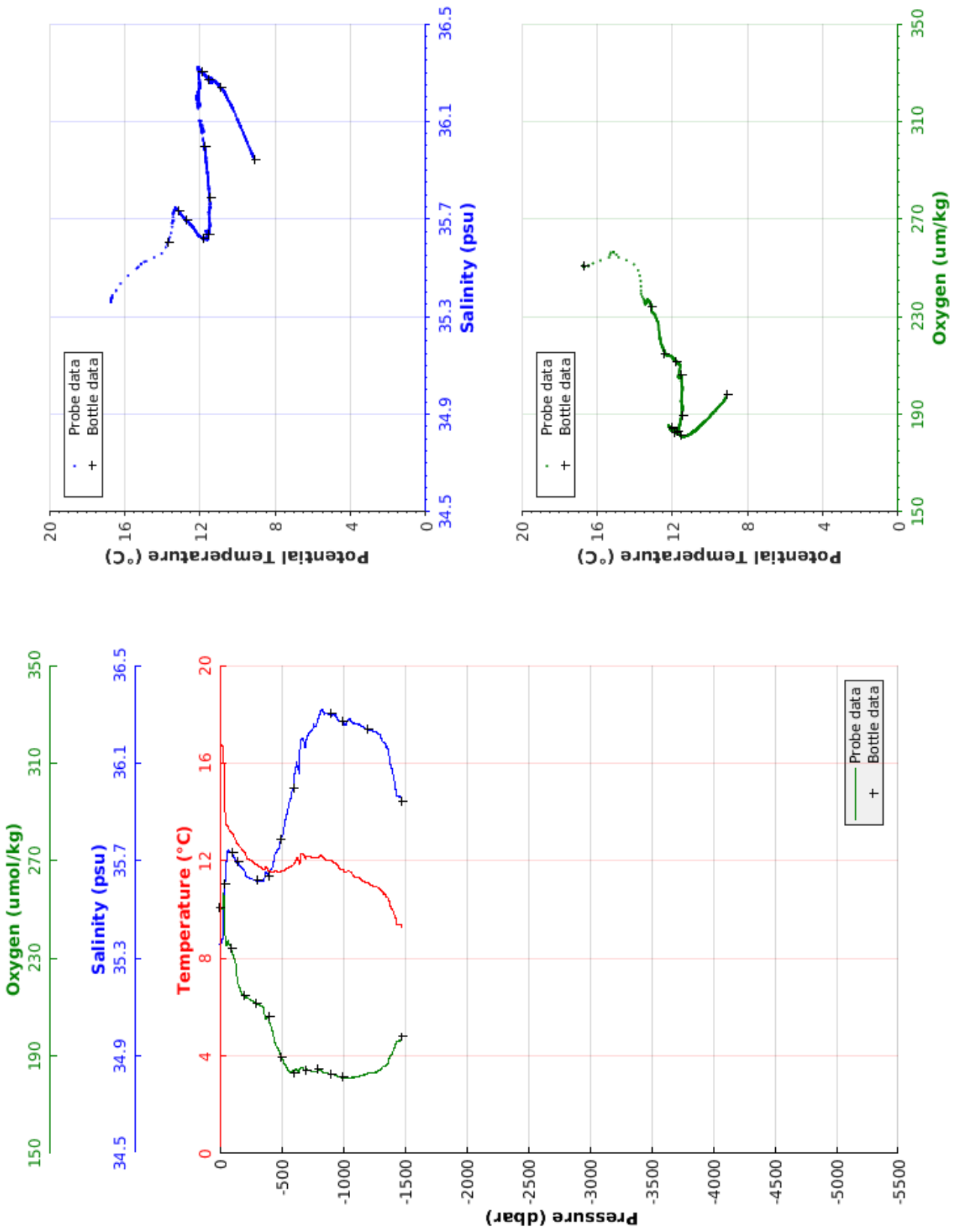
Station: 3

```

-----
| Cruise      : OVIDE 2018
| Station     : 4           Cast      : 1
| Date        : 17/06/2018   Ship       : N/O THALASSA
| Depth       : 1476 m       Organism  : IFREMER
| Position    : N 40 19.96
|              W 009 48.29
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.727	35.360	250.7	16.727
10.0	16.725	35.361	250.6	16.724
20.0	16.713	35.368	250.7	16.710
30.0	16.462	35.406	251.1	16.458
40.0	14.867	35.526	254.3	14.861
50.0	13.544	35.643	237.4	13.537
100.0	13.129	35.731	233.6	13.115
150.0	12.670	35.691	221.0	12.649
200.0	12.357	35.663	214.3	12.330
250.0	12.026	35.629	213.3	11.993
300.0	11.825	35.620	211.6	11.786
350.0	11.642	35.616	210.5	11.596
400.0	11.579	35.646	205.3	11.527
450.0	11.577	35.724	195.6	11.519
500.0	11.564	35.796	189.8	11.499
550.0	11.703	35.907	184.9	11.630
600.0	11.838	35.995	183.9	11.758
650.0	11.959	36.084	184.2	11.872
700.0	12.116	36.176	184.3	12.021
750.0	12.120	36.237	183.6	12.018
800.0	12.158	36.283	183.9	12.048
850.0	12.063	36.301	183.1	11.947
900.0	11.997	36.301	182.8	11.874
950.0	11.825	36.286	181.9	11.697
1000.0	11.634	36.276	181.3	11.500
1050.0	11.563	36.279	181.0	11.422
1100.0	11.310	36.260	181.6	11.165
1150.0	11.186	36.251	181.9	11.034
1200.0	11.087	36.240	182.7	10.930
1250.0	10.961	36.230	183.1	10.798
1300.0	10.840	36.216	184.1	10.671
1350.0	10.523	36.168	186.4	10.350
1400.0	9.991	36.075	190.9	9.816
1450.0	9.380	35.963	196.2	9.206
1479.0	9.302	35.948	197.1	9.125



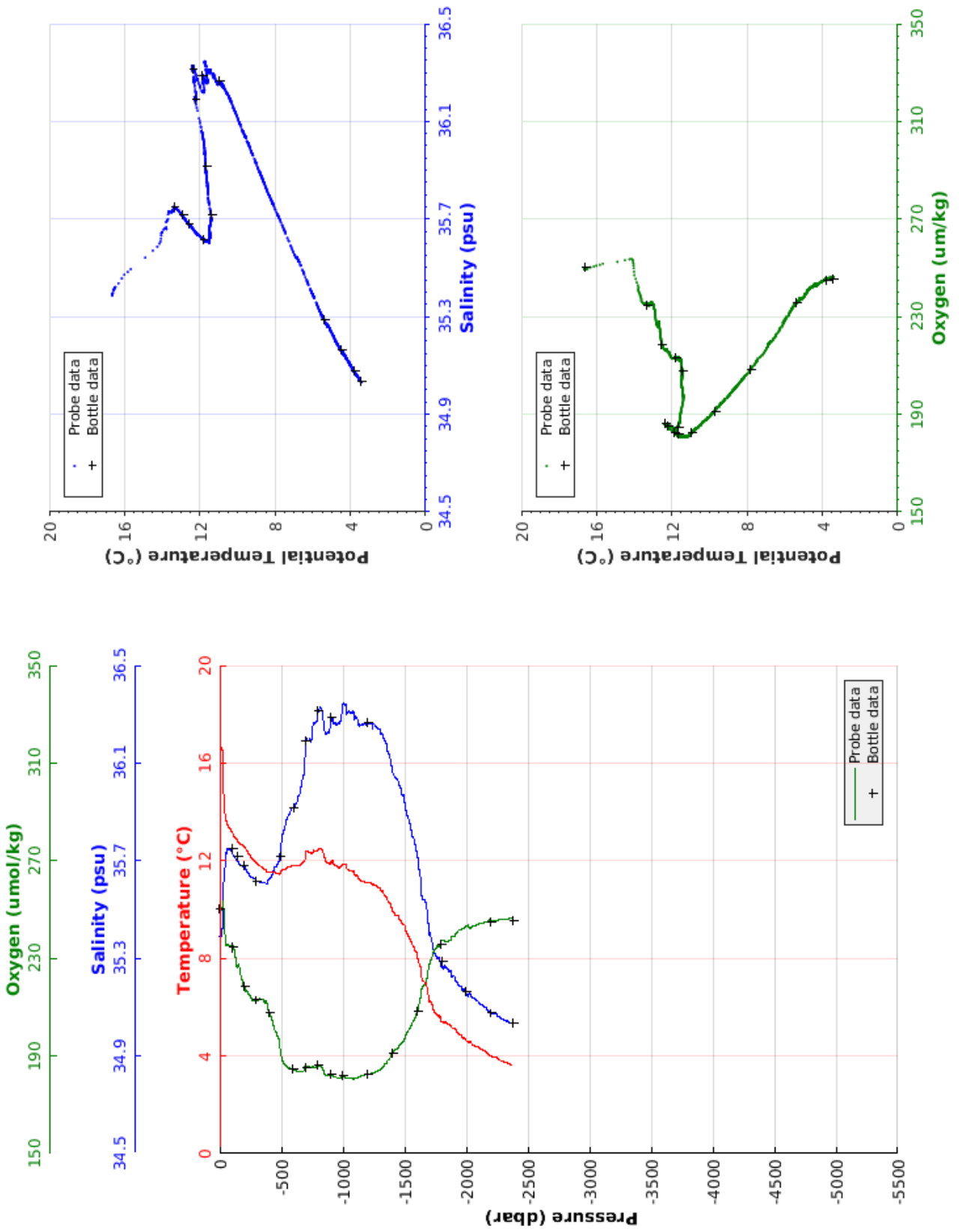
Station: 4


```

-----
| Cruise      : OVIDE 2018
| Station     : 5           Cast      : 1
| Date       : 17/06/2018   Ship       : N/O THALASSA
| Depth      : 2359 m      Organism  : IFREMER
| Position   : N 40 19.94
|             W 009 52.73
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.650	35.391	249.5	16.650
10.0	16.657	35.390	249.5	16.655
20.0	16.561	35.412	249.7	16.558
30.0	15.667	35.495	251.8	15.662
40.0	14.020	35.644	248.5	14.014
50.0	13.700	35.700	239.1	13.693
100.0	13.183	35.738	235.2	13.169
150.0	12.781	35.697	226.0	12.760
200.0	12.559	35.675	218.9	12.532
250.0	12.158	35.636	214.9	12.124
300.0	11.882	35.617	213.5	11.842
350.0	11.712	35.608	213.3	11.666
400.0	11.522	35.622	208.6	11.471
450.0	11.517	35.674	200.8	11.459
500.0	11.588	35.767	191.3	11.523
550.0	11.724	35.875	185.4	11.652
600.0	11.785	35.917	184.4	11.706
650.0	11.820	35.971	183.6	11.734
700.0	12.352	36.187	185.6	12.256
750.0	12.315	36.209	185.3	12.212
800.0	12.476	36.308	185.8	12.365
850.0	12.124	36.246	183.5	12.008
900.0	11.954	36.260	182.2	11.832
950.0	11.741	36.257	181.2	11.613
1000.0	11.861	36.333	181.4	11.725
1050.0	11.627	36.313	180.8	11.486
1100.0	11.407	36.286	181.0	11.260
1150.0	11.168	36.256	181.8	11.017
1200.0	11.109	36.260	182.4	10.952
1250.0	11.026	36.259	183.2	10.863
1300.0	10.886	36.238	184.1	10.717
1350.0	10.535	36.185	186.8	10.362
1400.0	10.035	36.088	190.5	9.861
1450.0	9.683	36.020	193.1	9.506
1500.0	9.351	35.960	196.4	9.170
1550.0	8.757	35.846	201.5	8.576
1600.0	8.110	35.728	207.0	7.931
1650.0	7.053	35.543	218.4	6.881
1700.0	6.274	35.408	226.8	6.106
1750.0	5.749	35.315	233.7	5.583
1800.0	5.411	35.264	237.1	5.244
1850.0	5.321	35.259	237.1	5.149
1900.0	5.119	35.226	239.1	4.945
1950.0	4.857	35.186	241.8	4.681
2000.0	4.623	35.155	243.0	4.446
2050.0	4.461	35.139	243.1	4.281
2100.0	4.335	35.121	243.8	4.152
2150.0	4.195	35.102	244.6	4.009
2200.0	3.992	35.076	245.6	3.804
2250.0	3.931	35.069	245.5	3.740
2300.0	3.770	35.050	245.9	3.576
2350.0	3.683	35.039	246.2	3.485
2379.0	3.633	35.033	246.3	3.434



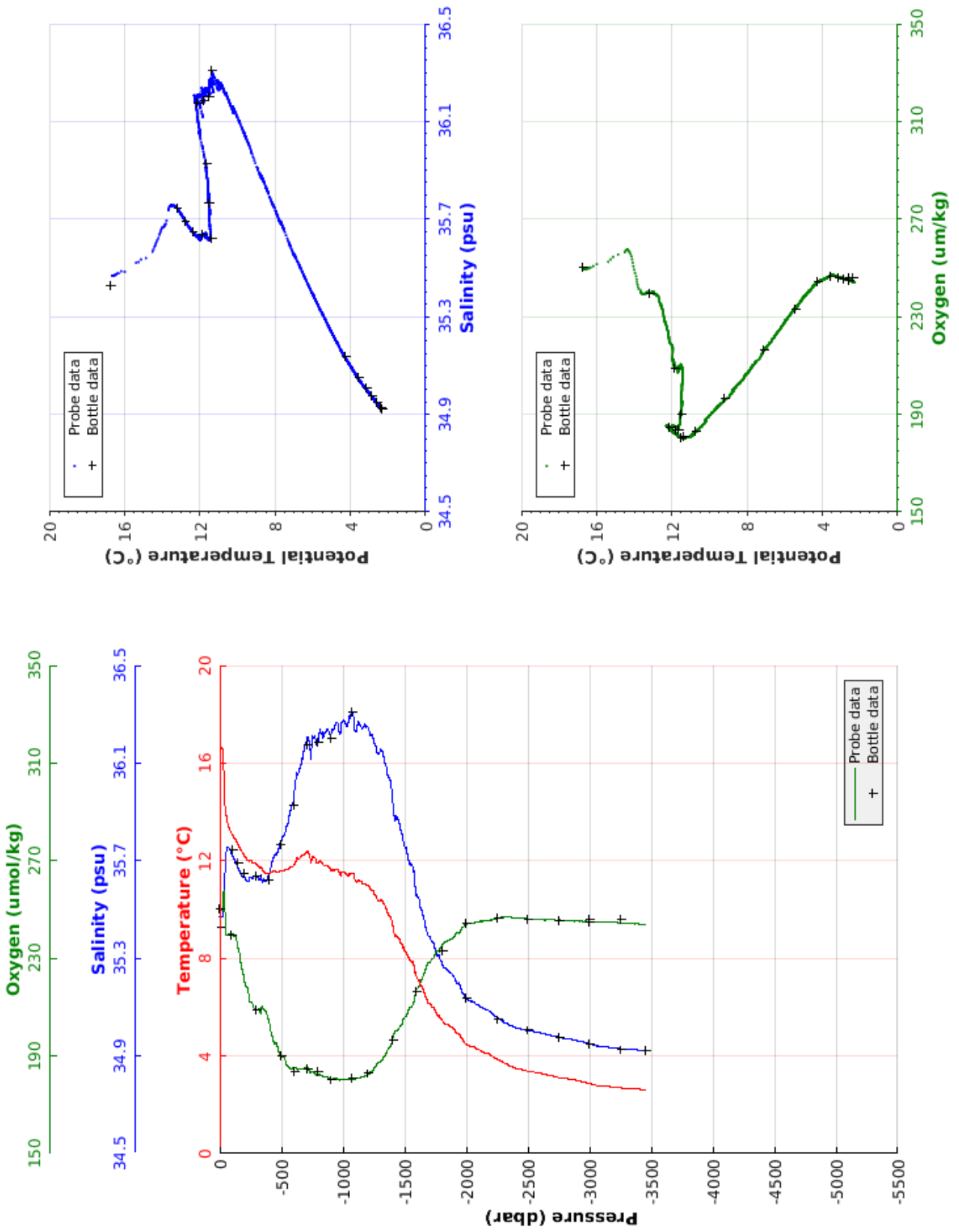
Station: 5

```

-----
| Cruise      : OVIDE 2018
| Station    :      6          Cast      :      1
| Date       : 17/06/2018     Ship      : N/O THALASSA
| Depth      : 3417 m         Organism : IFREMER
| Position   : N 40 19.97
|             W 009 56.77
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.624	35.468	249.8	16.624	3050.0	2.803	34.942	245.0	2.551
10.0	16.622	35.469	249.4	16.621	3100.0	2.767	34.939	244.8	2.511
20.0	16.607	35.468	249.6	16.604	3150.0	2.746	34.936	244.8	2.485
30.0	16.188	35.486	250.7	16.184	3200.0	2.719	34.933	244.7	2.453
40.0	14.343	35.599	257.5	14.337	3250.0	2.700	34.930	244.6	2.429
50.0	13.907	35.669	246.5	13.899	3300.0	2.670	34.928	244.3	2.395
100.0	13.071	35.728	240.1	13.057	3350.0	2.662	34.926	244.3	2.381
150.0	12.622	35.670	235.2	12.602	3400.0	2.644	34.924	244.1	2.359
200.0	12.213	35.630	222.6	12.186	3450.0	2.630	34.922	244.0	2.340
250.0	12.017	35.634	212.3	11.984	3460.0	2.630	34.922	244.0	2.339
300.0	11.837	35.633	209.1	11.798					
350.0	11.565	35.613	210.4	11.520					
400.0	11.487	35.641	205.0	11.436					
450.0	11.572	35.724	195.1	11.514					
500.0	11.603	35.780	189.9	11.538					
550.0	11.651	35.850	186.1	11.579					
600.0	11.791	35.939	184.9	11.712					
650.0	12.127	36.075	184.5	12.039					
700.0	12.326	36.180	185.1	12.230					
750.0	12.097	36.174	183.7	11.996					
800.0	11.910	36.188	182.1	11.803					
850.0	11.801	36.215	181.5	11.687					
900.0	11.605	36.210	180.5	11.485					
950.0	11.641	36.267	180.8	11.514					
1000.0	11.540	36.268	180.5	11.407					
1050.0	11.477	36.290	180.4	11.338					
1100.0	11.193	36.233	180.6	11.049					
1150.0	11.133	36.253	181.0	10.982					
1200.0	10.996	36.248	182.1	10.839					
1250.0	10.690	36.198	184.3	10.529					
1300.0	10.374	36.142	187.4	10.209					
1350.0	10.052	36.096	190.5	9.884					
1400.0	9.422	35.975	195.3	9.253					
1450.0	8.848	35.868	200.7	8.679					
1500.0	8.302	35.761	205.6	8.133					
1550.0	7.865	35.683	210.0	7.695					
1600.0	7.160	35.551	217.2	6.992					
1650.0	6.727	35.483	222.1	6.559					
1700.0	6.137	35.388	228.4	5.970					
1750.0	5.809	35.333	231.5	5.641					
1800.0	5.490	35.287	234.6	5.322					
1850.0	5.282	35.253	236.9	5.110					
1900.0	5.100	35.225	238.6	4.926					
1950.0	4.851	35.190	240.6	4.676					
2000.0	4.499	35.138	243.9	4.324					
2050.0	4.374	35.123	244.5	4.196					
2100.0	4.259	35.108	244.8	4.077					
2150.0	4.135	35.092	245.3	3.950					
2200.0	4.023	35.078	245.6	3.835					
2250.0	3.868	35.058	246.3	3.677					
2300.0	3.735	35.041	246.8	3.542					
2350.0	3.604	35.027	246.9	3.407					
2400.0	3.504	35.017	246.7	3.305					
2450.0	3.436	35.010	246.4	3.233					
2500.0	3.370	35.003	246.2	3.163					
2550.0	3.338	35.000	245.8	3.126					
2600.0	3.292	34.996	245.7	3.077					
2650.0	3.241	34.989	245.7	3.021					
2700.0	3.184	34.983	245.7	2.960					
2750.0	3.116	34.976	245.7	2.888					
2800.0	3.085	34.972	245.6	2.853					
2850.0	3.057	34.969	245.2	2.820					
2900.0	3.006	34.964	245.3	2.765					
2950.0	2.942	34.957	245.1	2.697					
3000.0	2.873	34.949	245.1	2.625					



Station: 6

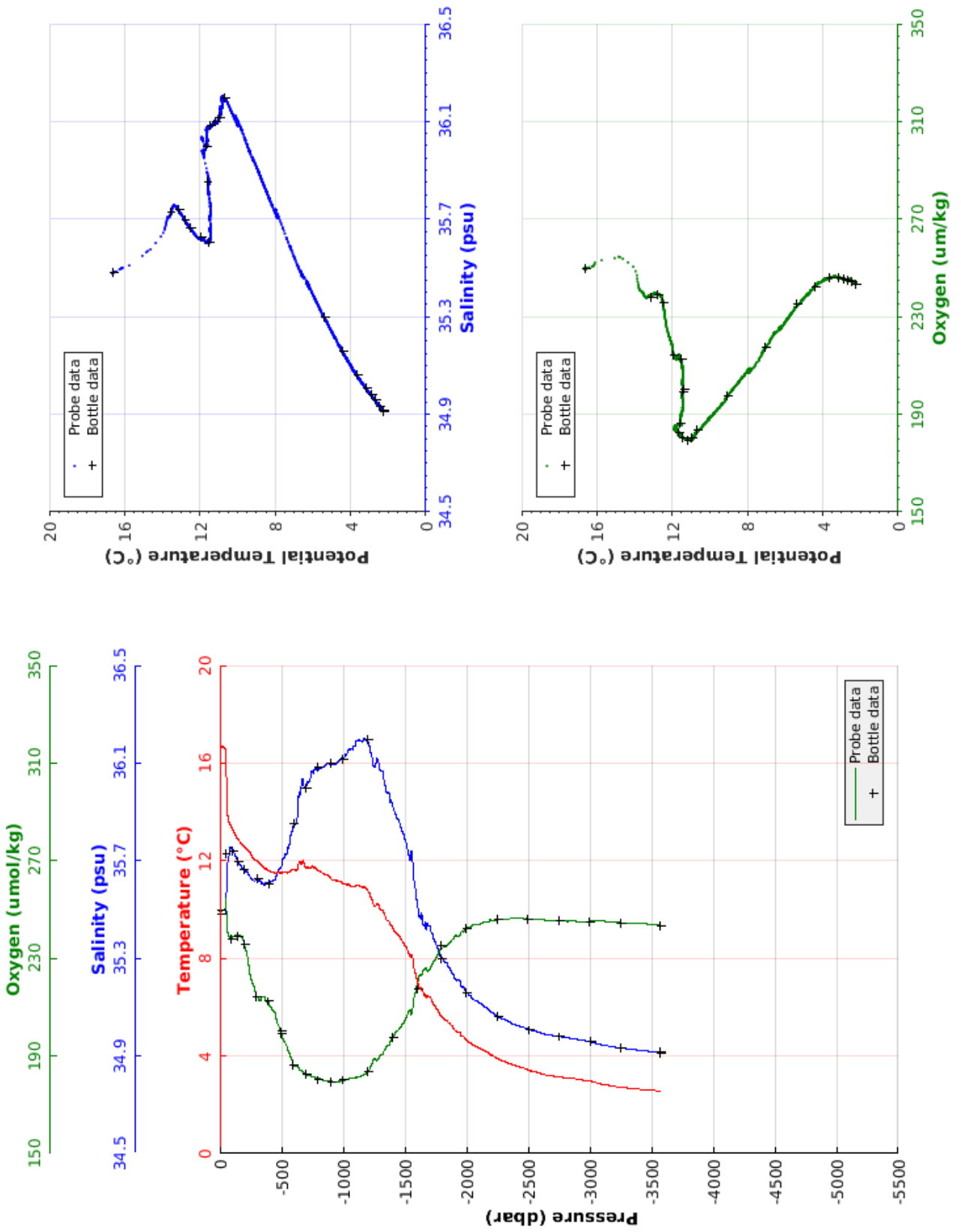
```

-----
| Cruise      : OVIDE 2018
| Station    : 7          Cast      : 1
| Date       : 17/06/2018   Ship     : N/O THALASSA
| Depth      : 3530 m      Organism : IFREMER
| Position   : N 40 20.00
|             W 010 2.22
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.666	35.480	249.4	16.666	3050.0	2.911	34.953	245.2	2.656
10.0	16.665	35.480	249.7	16.664	3100.0	2.836	34.945	245.3	2.579
20.0	16.669	35.479	249.5	16.666	3150.0	2.793	34.941	244.8	2.531
30.0	16.654	35.480	249.5	16.649	3200.0	2.750	34.936	244.8	2.484
40.0	16.577	35.482	249.8	16.571	3250.0	2.731	34.934	244.7	2.460
50.0	16.172	35.498	251.0	16.164	3300.0	2.687	34.929	244.5	2.411
100.0	13.275	35.749	238.4	13.261	3350.0	2.663	34.927	244.4	2.383
150.0	12.843	35.698	239.4	12.823	3400.0	2.637	34.923	244.2	2.352
200.0	12.544	35.662	236.7	12.517	3450.0	2.610	34.921	244.2	2.321
250.0	12.263	35.633	223.5	12.230	3500.0	2.596	34.919	244.0	2.301
300.0	11.999	35.622	214.9	11.959	3550.0	2.568	34.915	243.9	2.268
350.0	11.754	35.607	214.1	11.709	3575.0	2.563	34.915	243.6	2.260
400.0	11.561	35.604	211.9	11.509					
450.0	11.487	35.621	208.0	11.429					
500.0	11.507	35.676	200.4	11.442					
550.0	11.496	35.732	193.9	11.425					
600.0	11.649	35.845	186.5	11.570					
650.0	11.909	35.969	184.6	11.822					
700.0	11.708	35.995	182.3	11.615					
750.0	11.752	36.063	181.6	11.653					
800.0	11.589	36.071	180.8	11.483					
850.0	11.451	36.087	180.1	11.339					
900.0	11.286	36.094	179.6	11.168					
950.0	11.182	36.098	179.4	11.058					
1000.0	11.062	36.116	180.1	10.932					
1050.0	11.052	36.161	180.4	10.916					
1100.0	10.944	36.170	181.1	10.801					
1150.0	10.939	36.192	181.8	10.790					
1200.0	10.778	36.188	183.3	10.623					
1250.0	10.176	36.086	188.4	10.020					
1300.0	10.003	36.075	189.8	9.842					
1350.0	9.602	35.992	193.4	9.438					
1400.0	9.271	35.934	197.2	9.104					
1450.0	8.937	35.870	200.5	8.768					
1500.0	8.526	35.791	204.3	8.354					
1550.0	8.046	35.706	208.4	7.874					
1600.0	7.120	35.536	218.4	6.953					
1650.0	6.499	35.436	224.3	6.334					
1700.0	6.406	35.431	225.4	6.236					
1750.0	6.011	35.365	229.5	5.840					
1800.0	5.627	35.304	233.9	5.456					
1850.0	5.424	35.276	235.3	5.251					
1900.0	5.097	35.227	238.2	4.923					
1950.0	4.947	35.207	239.4	4.770					
2000.0	4.642	35.162	242.1	4.464					
2050.0	4.464	35.136	243.4	4.284					
2100.0	4.334	35.120	243.9	4.151					
2150.0	4.195	35.101	244.9	4.009					
2200.0	4.030	35.079	245.8	3.842					
2250.0	3.895	35.064	245.6	3.704					
2300.0	3.788	35.051	246.1	3.593					
2350.0	3.697	35.040	246.2	3.499					
2400.0	3.589	35.027	246.5	3.388					
2450.0	3.521	35.020	246.4	3.317					
2500.0	3.436	35.011	246.2	3.228					
2550.0	3.345	35.002	245.9	3.134					
2600.0	3.282	34.995	245.8	3.067					
2650.0	3.217	34.988	245.6	2.998					
2700.0	3.179	34.984	245.6	2.955					
2750.0	3.145	34.980	245.4	2.917					
2800.0	3.109	34.976	245.3	2.876					
2850.0	3.077	34.972	245.4	2.840					
2900.0	3.040	34.968	245.1	2.799					
2950.0	3.004	34.964	245.0	2.758					
3000.0	2.978	34.960	245.1	2.727					





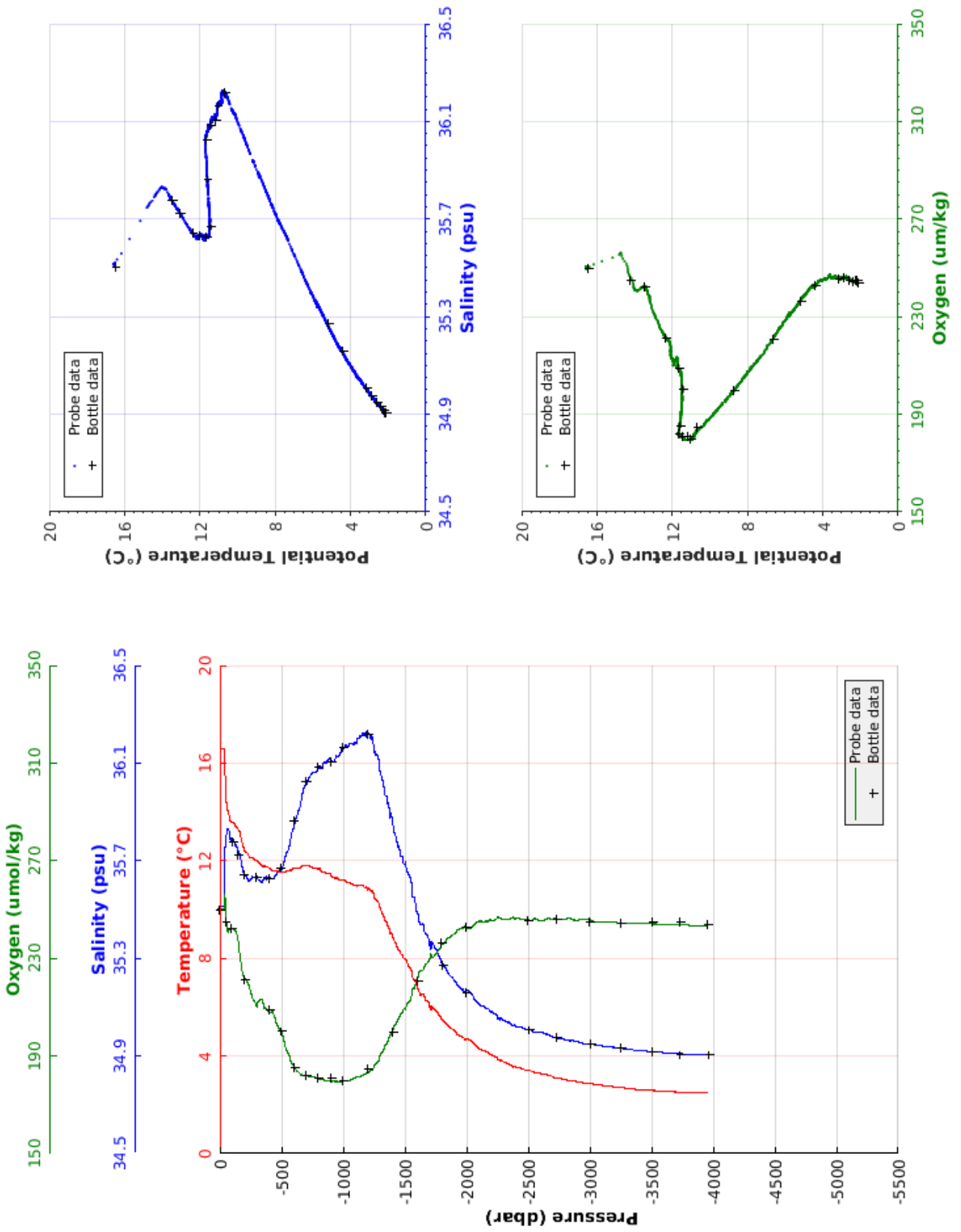
Station: 7

```

-----
| Cruise      : OVIDE 2018
| Station    : 8          Cast      : 1
| Date       : 17/06/2018   Ship     : N/O THALASSA
| Depth      : 3836 m      Organism : IFREMER
| Position   : N 40 19.99
|             W 010 18.13
|-----
  
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.574	35.515	250.4	16.574	3050.0	2.823	34.945	245.1	2.571
10.0	16.574	35.514	250.1	16.573	3100.0	2.794	34.942	244.8	2.537
20.0	16.575	35.514	250.1	16.572	3150.0	2.761	34.938	244.7	2.500
30.0	16.578	35.514	250.0	16.573	3200.0	2.739	34.935	244.7	2.473
40.0	16.409	35.534	250.4	16.403	3250.0	2.700	34.931	244.4	2.429
50.0	14.539	35.775	252.7	14.532	3300.0	2.675	34.928	244.4	2.400
100.0	13.570	35.787	242.1	13.555	3350.0	2.651	34.925	244.2	2.371
150.0	13.238	35.741	238.6	13.217	3400.0	2.620	34.922	244.1	2.335
200.0	12.462	35.646	222.2	12.435	3450.0	2.607	34.920	244.2	2.318
250.0	12.114	35.621	217.3	12.081	3500.0	2.587	34.918	244.1	2.292
300.0	11.978	35.632	211.1	11.938	3550.0	2.573	34.916	244.0	2.274
350.0	11.773	35.614	212.6	11.727	3600.0	2.554	34.914	243.9	2.249
400.0	11.697	35.632	208.2	11.645	3650.0	2.538	34.912	243.8	2.228
450.0	11.589	35.635	206.0	11.531	3700.0	2.524	34.910	243.8	2.209
500.0	11.523	35.665	200.5	11.458	3750.0	2.516	34.909	243.7	2.195
550.0	11.585	35.738	192.0	11.513	3800.0	2.508	34.907	243.6	2.182
600.0	11.672	35.834	186.1	11.593	3850.0	2.502	34.906	243.4	2.171
650.0	11.720	35.918	183.2	11.634	3900.0	2.495	34.905	243.5	2.159
700.0	11.796	36.015	181.9	11.703	3950.0	2.491	34.904	243.1	2.149
750.0	11.729	36.055	181.4	11.629	3961.0	2.493	34.904	243.1	2.149
800.0	11.678	36.082	180.9	11.571					
850.0	11.535	36.101	180.1	11.423					
900.0	11.415	36.115	179.7	11.297					
950.0	11.282	36.127	179.6	11.158					
1000.0	11.213	36.159	179.6	11.083					
1050.0	11.089	36.174	180.0	10.953					
1100.0	10.994	36.187	181.0	10.851					
1150.0	10.987	36.214	181.7	10.838					
1200.0	10.789	36.200	183.4	10.634					
1250.0	10.597	36.175	185.0	10.437					
1300.0	9.996	36.065	189.6	9.835					
1350.0	9.494	35.967	194.6	9.331					
1400.0	8.943	35.869	199.3	8.780					
1450.0	8.375	35.763	205.1	8.211					
1500.0	7.971	35.686	209.4	7.806					
1550.0	7.551	35.626	212.9	7.384					
1600.0	6.793	35.490	221.4	6.629					
1650.0	6.500	35.440	224.8	6.335					
1700.0	6.070	35.367	229.6	5.905					
1750.0	5.845	35.338	231.6	5.677					
1800.0	5.500	35.283	235.1	5.331					
1850.0	5.240	35.243	238.0	5.069					
1900.0	5.044	35.213	239.9	4.871					
1950.0	4.814	35.179	242.2	4.639					
2000.0	4.705	35.170	242.1	4.527					
2050.0	4.571	35.151	242.8	4.389					
2100.0	4.315	35.113	245.1	4.132					
2150.0	4.213	35.102	244.9	4.027					
2200.0	4.047	35.081	245.7	3.859					
2250.0	3.851	35.054	246.4	3.661					
2300.0	3.753	35.047	246.0	3.559					
2350.0	3.649	35.036	245.9	3.452					
2400.0	3.539	35.023	246.1	3.339					
2450.0	3.472	35.016	246.0	3.268					
2500.0	3.409	35.009	245.9	3.201					
2550.0	3.330	34.999	246.1	3.119					
2600.0	3.286	34.996	245.5	3.071					
2650.0	3.235	34.989	245.9	3.016					
2700.0	3.153	34.980	246.0	2.930					
2750.0	3.086	34.972	246.1	2.859					
2800.0	3.041	34.968	246.1	2.810					
2850.0	2.995	34.962	246.2	2.760					
2900.0	2.945	34.958	245.5	2.705					
2950.0	2.891	34.951	246.0	2.648					
3000.0	2.863	34.948	245.9	2.615					





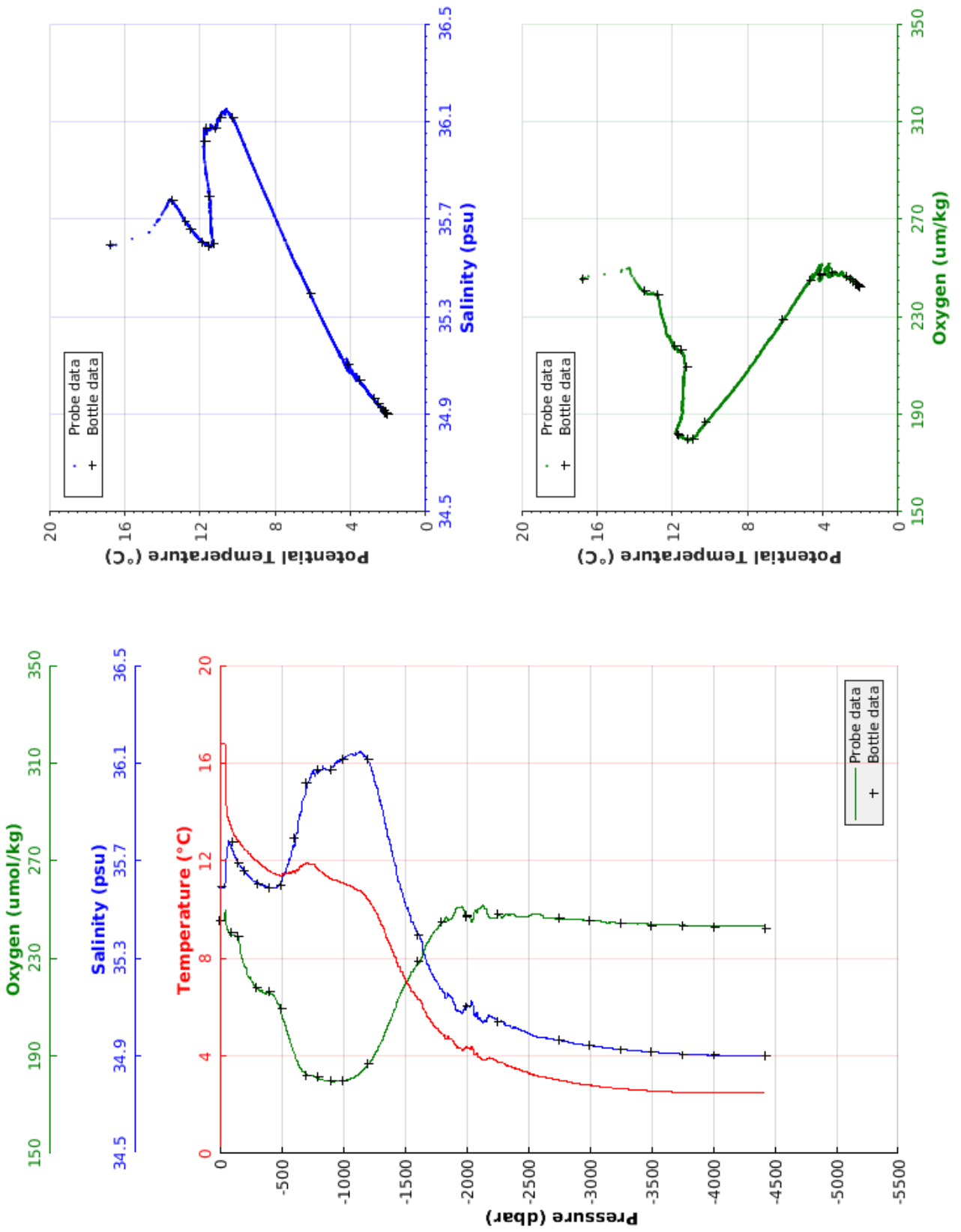
Station: 8


```

-----
| Cruise      : OVIDE 2018
| Station    : 9          Cast      : 1
| Date       : 18/06/2018 Ship     : N/O THALASSA
| Depth      : 4353 m    Organism : IFREMER
| Position   : N 40 20.01
|             W 010 34.65
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.796	35.591	245.7	16.796	3050.0	2.763	34.939	245.4	2.512
10.0	16.797	35.591	245.7	16.796	3100.0	2.736	34.936	244.9	2.480
20.0	16.800	35.591	245.5	16.797	3150.0	2.710	34.933	244.6	2.450
30.0	16.801	35.591	245.5	16.796	3200.0	2.676	34.929	244.8	2.411
40.0	16.792	35.592	245.3	16.785	3250.0	2.654	34.927	244.6	2.384
50.0	14.408	35.676	249.6	14.401	3300.0	2.638	34.925	244.4	2.364
100.0	13.269	35.751	239.3	13.255	3350.0	2.616	34.922	244.2	2.337
150.0	12.817	35.692	239.1	12.796	3400.0	2.602	34.920	244.1	2.318
200.0	12.463	35.655	227.5	12.436	3450.0	2.582	34.918	244.1	2.293
250.0	12.223	35.630	222.1	12.189	3500.0	2.567	34.916	243.9	2.273
300.0	11.997	35.612	217.9	11.958	3550.0	2.552	34.914	243.9	2.253
350.0	11.777	35.599	216.4	11.731	3600.0	2.543	34.913	243.8	2.238
400.0	11.584	35.589	215.8	11.532	3650.0	2.529	34.911	243.8	2.220
450.0	11.452	35.589	214.1	11.394	3700.0	2.518	34.909	243.6	2.203
500.0	11.378	35.610	209.0	11.314	3750.0	2.508	34.908	243.5	2.188
550.0	11.494	35.681	200.0	11.422	3800.0	2.502	34.907	243.5	2.176
600.0	11.553	35.759	192.1	11.475	3850.0	2.495	34.906	243.4	2.164
650.0	11.776	35.888	185.4	11.690	3900.0	2.488	34.904	243.3	2.152
700.0	11.884	35.987	182.9	11.791	3950.0	2.482	34.903	243.5	2.140
750.0	11.864	36.056	182.1	11.764	4000.0	2.479	34.902	243.4	2.131
800.0	11.614	36.063	180.8	11.508	4050.0	2.479	34.902	243.3	2.125
850.0	11.456	36.078	180.0	11.344	4100.0	2.476	34.901	243.4	2.117
900.0	11.267	36.073	179.6	11.150	4150.0	2.476	34.900	243.5	2.111
950.0	11.169	36.101	179.6	11.045	4200.0	2.476	34.900	243.5	2.106
1000.0	11.078	36.114	179.8	10.948	4250.0	2.477	34.899	243.4	2.100
1050.0	10.981	36.133	180.3	10.845	4300.0	2.479	34.899	243.3	2.096
1100.0	10.812	36.130	181.6	10.671	4350.0	2.480	34.899	243.3	2.091
1150.0	10.703	36.141	183.2	10.556	4400.0	2.483	34.898	243.2	2.088
1200.0	10.404	36.111	186.1	10.252	4422.0	2.485	34.898	243.0	2.088
1250.0	10.048	36.050	189.4	9.893					
1300.0	9.497	35.946	194.5	9.341					
1350.0	8.884	35.834	200.0	8.727					
1400.0	8.330	35.738	206.0	8.173					
1450.0	7.661	35.617	213.4	7.505					
1500.0	7.161	35.528	218.7	7.005					
1550.0	6.713	35.461	223.3	6.556					
1600.0	6.376	35.406	227.3	6.217					
1650.0	5.944	35.331	232.1	5.785					
1700.0	5.510	35.263	237.3	5.352					
1750.0	5.160	35.209	241.4	5.001					
1800.0	4.917	35.173	244.0	4.756					
1850.0	4.791	35.157	245.4	4.627					
1900.0	4.543	35.117	247.9	4.377					
1950.0	4.312	35.083	251.0	4.144					
2000.0	4.362	35.108	247.6	4.188					
2050.0	4.295	35.109	245.1	4.117					
2100.0	3.975	35.057	250.3	3.798					
2150.0	3.860	35.044	250.7	3.679					
2200.0	3.891	35.061	246.5	3.705					
2250.0	3.784	35.048	246.6	3.595					
2300.0	3.696	35.036	246.9	3.503					
2350.0	3.581	35.023	247.9	3.386					
2400.0	3.499	35.016	247.3	3.300					
2450.0	3.393	35.004	247.1	3.191					
2500.0	3.311	34.995	247.1	3.105					
2550.0	3.203	34.980	248.1	2.994					
2600.0	3.155	34.977	247.9	2.942					
2650.0	3.103	34.973	246.8	2.886					
2700.0	3.062	34.970	246.4	2.841					
2750.0	3.010	34.964	246.3	2.785					
2800.0	2.974	34.961	246.1	2.744					
2850.0	2.914	34.954	246.0	2.681					
2900.0	2.859	34.948	246.1	2.621					
2950.0	2.828	34.945	245.7	2.586					
3000.0	2.796	34.942	245.4	2.549					



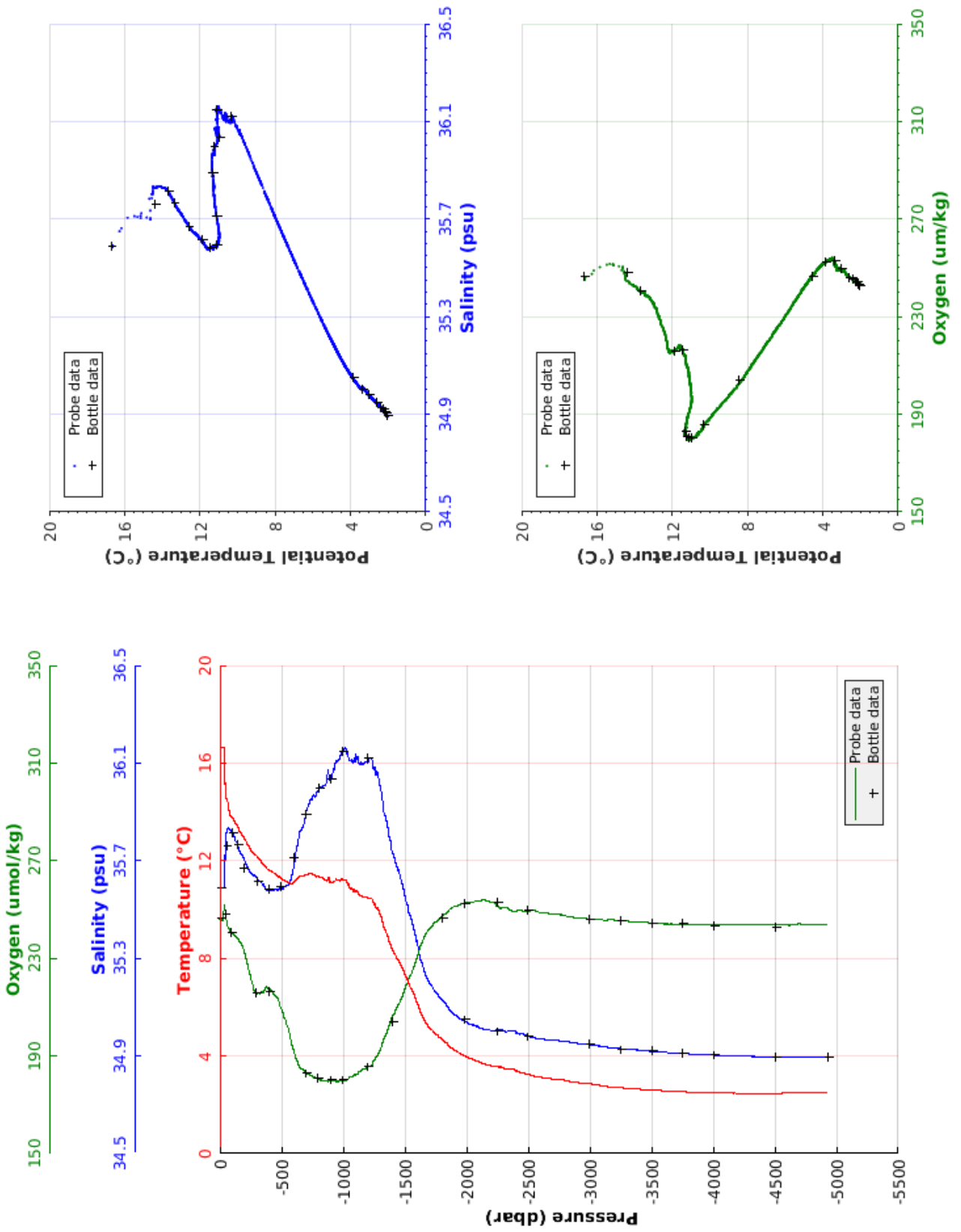
Station: 9

```

-----
| Cruise      : OVIDE 2018
| Station     : 10          Cast      : 1
| Date       : 18/06/2018   Ship     : N/O THALASSA
| Depth      : 4850 m       Organism : IFREMER
| Position   : N 40 20.01
|             W 010 54.34
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.651	35.587	245.7	16.651	3050.0	2.812	34.942	246.0	2.560
10.0	16.652	35.587	245.9	16.650	3100.0	2.783	34.939	245.8	2.526
20.0	16.653	35.587	245.7	16.650	3150.0	2.739	34.935	245.7	2.478
30.0	16.647	35.588	245.7	16.642	3200.0	2.710	34.931	245.7	2.444
40.0	15.485	35.712	251.3	15.479	3250.0	2.697	34.930	245.4	2.427
50.0	14.562	35.786	248.6	14.555	3300.0	2.672	34.927	245.3	2.397
100.0	13.771	35.822	240.9	13.757	3350.0	2.667	34.926	245.0	2.386
150.0	13.344	35.761	238.5	13.323	3400.0	2.642	34.924	244.7	2.357
200.0	12.925	35.708	233.6	12.897	3450.0	2.620	34.921	244.7	2.330
250.0	12.439	35.651	223.4	12.405	3500.0	2.595	34.919	244.5	2.300
300.0	12.193	35.635	215.4	12.153	3550.0	2.588	34.917	244.3	2.288
350.0	11.860	35.601	216.3	11.814	3600.0	2.569	34.915	244.2	2.264
400.0	11.614	35.580	217.5	11.562	3650.0	2.553	34.913	244.0	2.243
450.0	11.461	35.584	214.8	11.403	3700.0	2.541	34.911	244.0	2.225
500.0	11.266	35.584	209.6	11.202	3750.0	2.535	34.910	243.9	2.214
550.0	11.118	35.600	202.6	11.048	3800.0	2.521	34.908	243.8	2.194
600.0	11.105	35.670	193.1	11.029	3850.0	2.514	34.907	243.8	2.183
650.0	11.382	35.819	185.7	11.298	3900.0	2.505	34.906	243.7	2.168
700.0	11.439	35.902	183.0	11.348	3950.0	2.498	34.905	243.7	2.155
750.0	11.436	35.952	181.9	11.338	4000.0	2.492	34.903	243.7	2.144
800.0	11.346	35.987	180.7	11.242	4050.0	2.486	34.902	243.7	2.133
850.0	11.220	36.009	179.9	11.110	4100.0	2.478	34.901	243.7	2.119
900.0	11.134	36.042	179.7	11.017	4150.0	2.474	34.900	243.8	2.109
950.0	11.230	36.109	179.5	11.106	4200.0	2.472	34.899	243.8	2.101
1000.0	11.234	36.152	179.8	11.103	4250.0	2.471	34.899	243.9	2.095
1050.0	10.899	36.112	180.9	10.764	4300.0	2.470	34.898	244.0	2.088
1100.0	10.736	36.112	182.4	10.595	4350.0	2.471	34.897	243.9	2.083
1150.0	10.578	36.104	184.0	10.431	4400.0	2.470	34.897	243.8	2.076
1200.0	10.445	36.102	185.4	10.293	4450.0	2.469	34.896	243.9	2.069
1250.0	10.201	36.074	187.9	10.044	4500.0	2.469	34.896	243.8	2.063
1300.0	9.776	36.008	192.0	9.617	4550.0	2.472	34.895	243.8	2.060
1350.0	9.047	35.871	198.4	8.888	4600.0	2.477	34.895	243.9	2.058
1400.0	8.329	35.739	205.5	8.172	4650.0	2.481	34.895	243.8	2.056
1450.0	7.887	35.658	210.7	7.728	4700.0	2.484	34.895	244.1	2.053
1500.0	7.343	35.563	216.8	7.185	4750.0	2.487	34.894	243.7	2.049
1550.0	6.802	35.470	223.1	6.644	4800.0	2.491	34.894	243.8	2.047
1600.0	6.215	35.370	229.7	6.059	4850.0	2.496	34.894	243.8	2.046
1650.0	5.577	35.267	237.0	5.423	4900.0	2.503	34.894	243.8	2.047
1700.0	5.154	35.201	241.9	5.000	4932.0	2.507	34.894	243.8	2.046
1750.0	4.902	35.163	244.8	4.747					
1800.0	4.707	35.134	246.9	4.549					
1850.0	4.449	35.098	249.2	4.290					
1900.0	4.224	35.069	251.2	4.062					
1950.0	4.087	35.052	252.1	3.923					
2000.0	3.969	35.039	252.7	3.801					
2050.0	3.864	35.028	253.1	3.693					
2100.0	3.765	35.018	253.6	3.591					
2150.0	3.669	35.010	253.9	3.492					
2200.0	3.593	35.005	252.9	3.412					
2250.0	3.569	35.008	251.5	3.383					
2300.0	3.504	35.003	250.8	3.315					
2350.0	3.460	35.001	250.3	3.267					
2400.0	3.396	34.996	249.3	3.199					
2450.0	3.324	34.989	249.6	3.123					
2500.0	3.243	34.981	249.3	3.038					
2550.0	3.171	34.973	249.6	2.963					
2600.0	3.122	34.971	248.8	2.910					
2650.0	3.088	34.967	248.6	2.871					
2700.0	3.056	34.964	248.2	2.835					
2750.0	3.034	34.963	247.9	2.809					
2800.0	3.006	34.960	247.7	2.776					
2850.0	2.951	34.956	247.0	2.717					
2900.0	2.915	34.952	246.6	2.676					
2950.0	2.878	34.949	246.4	2.635					
3000.0	2.851	34.946	245.9	2.603					



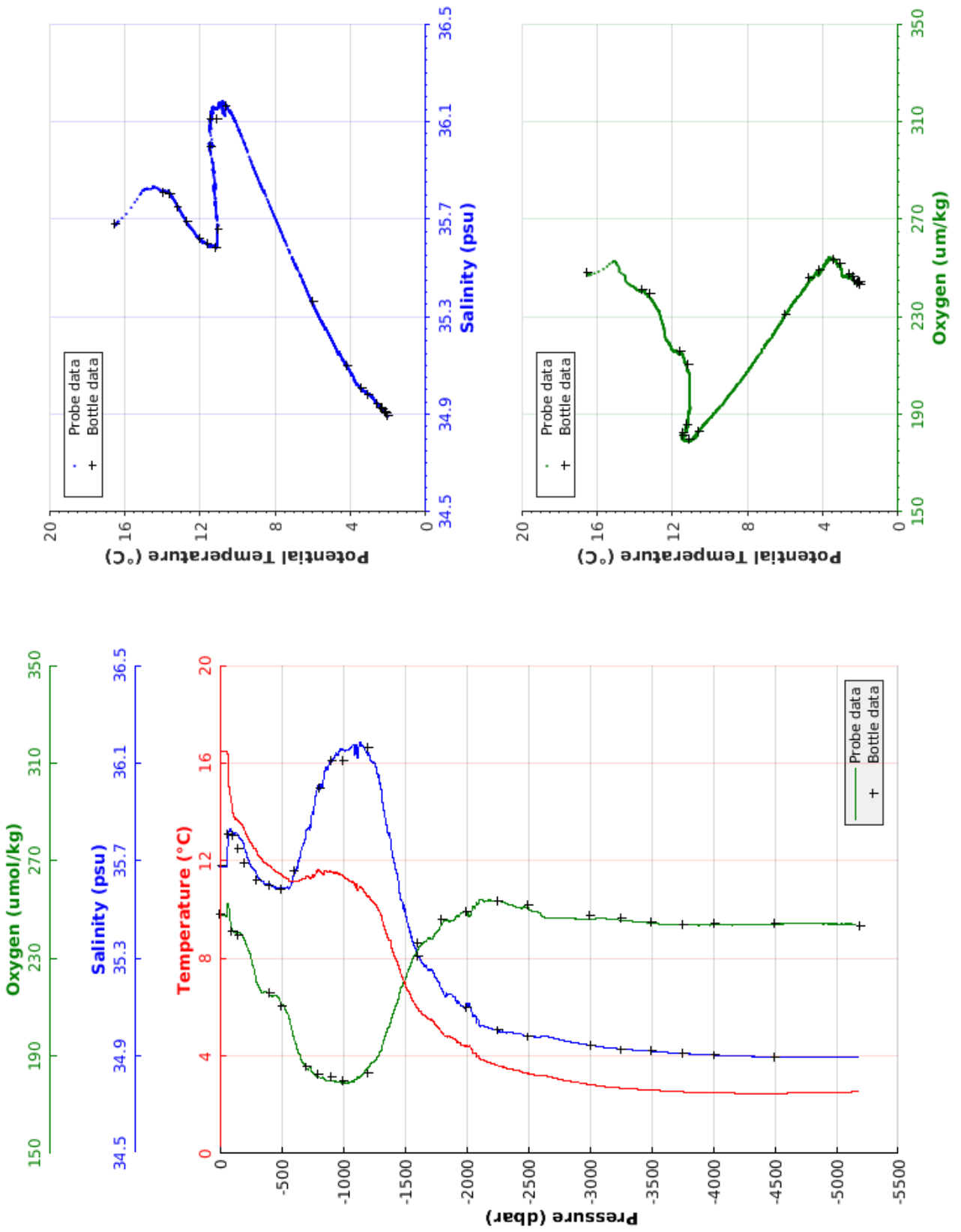
Station: 10

```

-----
| Cruise      : OVIDE 2018
| Station    : 11          Cast      : 1
| Date       : 18/06/2018   Ship       : N/O THALASSA
| Depth      : 5097 m      Organism  : IPREMER
| Position   : N 40 20.03
|             W 011 20.66
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.508	35.676	247.5	16.508	3050.0	2.791	34.940	246.3	2.539
10.0	16.503	35.676	247.6	16.502	3100.0	2.756	34.936	246.4	2.501
20.0	16.500	35.676	247.5	16.497	3150.0	2.732	34.934	246.2	2.471
30.0	16.488	35.678	247.6	16.483	3200.0	2.705	34.931	245.8	2.440
40.0	16.497	35.677	247.5	16.491	3250.0	2.684	34.929	245.6	2.414
50.0	16.502	35.677	247.4	16.494	3300.0	2.664	34.927	245.4	2.390
100.0	14.139	35.820	242.5	14.124	3350.0	2.649	34.925	245.2	2.370
150.0	13.609	35.805	240.4	13.587	3400.0	2.629	34.923	244.8	2.344
200.0	13.258	35.758	238.1	13.230	3450.0	2.619	34.921	244.7	2.329
250.0	12.743	35.687	232.2	12.708	3500.0	2.605	34.920	244.5	2.310
300.0	12.389	35.651	220.7	12.348	3550.0	2.587	34.917	244.1	2.287
350.0	11.983	35.614	215.9	11.937	3600.0	2.569	34.915	243.9	2.263
400.0	11.797	35.604	215.5	11.745	3650.0	2.552	34.913	243.9	2.242
450.0	11.597	35.592	214.7	11.538	3700.0	2.540	34.912	243.7	2.224
500.0	11.435	35.591	211.8	11.370	3750.0	2.529	34.910	243.6	2.208
550.0	11.255	35.592	207.9	11.185	3800.0	2.521	34.909	243.6	2.195
600.0	11.157	35.639	198.6	11.080	3850.0	2.514	34.908	243.6	2.182
650.0	11.204	35.709	190.7	11.121	3900.0	2.502	34.906	243.6	2.165
700.0	11.335	35.811	185.2	11.245	3950.0	2.496	34.905	243.6	2.154
750.0	11.409	35.895	183.8	11.311	4000.0	2.490	34.904	243.7	2.142
800.0	11.628	36.008	181.2	11.522	4050.0	2.485	34.903	243.6	2.131
850.0	11.612	36.068	180.3	11.499	4100.0	2.479	34.902	243.6	2.120
900.0	11.555	36.106	179.7	11.436	4150.0	2.475	34.900	243.6	2.110
950.0	11.500	36.137	179.6	11.374	4200.0	2.471	34.899	243.6	2.101
1000.0	11.365	36.156	179.0	11.233	4250.0	2.469	34.899	243.6	2.093
1050.0	11.186	36.156	179.0	11.049	4300.0	2.468	34.898	243.7	2.086
1100.0	10.912	36.136	180.6	10.770	4350.0	2.469	34.898	243.7	2.080
1150.0	10.867	36.171	181.7	10.719	4400.0	2.470	34.897	243.8	2.076
1200.0	10.532	36.136	185.1	10.380	4450.0	2.470	34.897	243.8	2.070
1250.0	10.276	36.101	187.4	10.119	4500.0	2.470	34.896	244.0	2.064
1300.0	9.842	36.018	191.2	9.682	4550.0	2.471	34.895	244.1	2.058
1350.0	9.044	35.859	198.7	8.885	4600.0	2.473	34.895	244.2	2.055
1400.0	8.327	35.733	205.9	8.170	4650.0	2.477	34.895	244.2	2.052
1450.0	7.676	35.615	212.9	7.519	4700.0	2.482	34.895	244.1	2.051
1500.0	6.983	35.495	220.5	6.829	4750.0	2.485	34.894	244.2	2.048
1550.0	6.448	35.401	226.8	6.295	4800.0	2.489	34.894	244.2	2.045
1600.0	5.971	35.322	232.7	5.817	4850.0	2.494	34.894	244.1	2.044
1650.0	5.675	35.277	236.2	5.519	4900.0	2.499	34.894	244.1	2.042
1700.0	5.506	35.253	238.1	5.347	4950.0	2.505	34.893	244.1	2.041
1750.0	5.256	35.218	240.2	5.095	5000.0	2.511	34.894	244.0	2.041
1800.0	4.968	35.174	243.7	4.807	5050.0	2.517	34.893	244.0	2.041
1850.0	4.788	35.149	245.7	4.623	5100.0	2.524	34.894	243.9	2.041
1900.0	4.713	35.144	245.7	4.544	5150.0	2.530	34.893	243.6	2.041
1950.0	4.487	35.111	247.8	4.317	5188.0	2.535	34.894	244.2	2.041
2000.0	4.449	35.113	248.0	4.274					
2050.0	4.157	35.067	250.2	3.981					
2100.0	3.928	35.033	252.4	3.751					
2150.0	3.801	35.021	253.2	3.622					
2200.0	3.711	35.013	253.8	3.528					
2250.0	3.632	35.007	253.3	3.445					
2300.0	3.538	34.999	252.9	3.348					
2350.0	3.475	34.996	251.9	3.282					
2400.0	3.421	34.993	251.1	3.223					
2450.0	3.354	34.988	250.5	3.152					
2500.0	3.271	34.979	250.9	3.066					
2550.0	3.221	34.978	249.2	3.012					
2600.0	3.187	34.978	248.5	2.974					
2650.0	3.171	34.980	246.6	2.953					
2700.0	3.126	34.975	246.3	2.904					
2750.0	3.051	34.968	246.4	2.825					
2800.0	2.993	34.961	246.6	2.763					
2850.0	2.950	34.957	246.3	2.715					
2900.0	2.908	34.952	246.2	2.670					
2950.0	2.876	34.949	246.1	2.633					
3000.0	2.831	34.944	246.1	2.584					



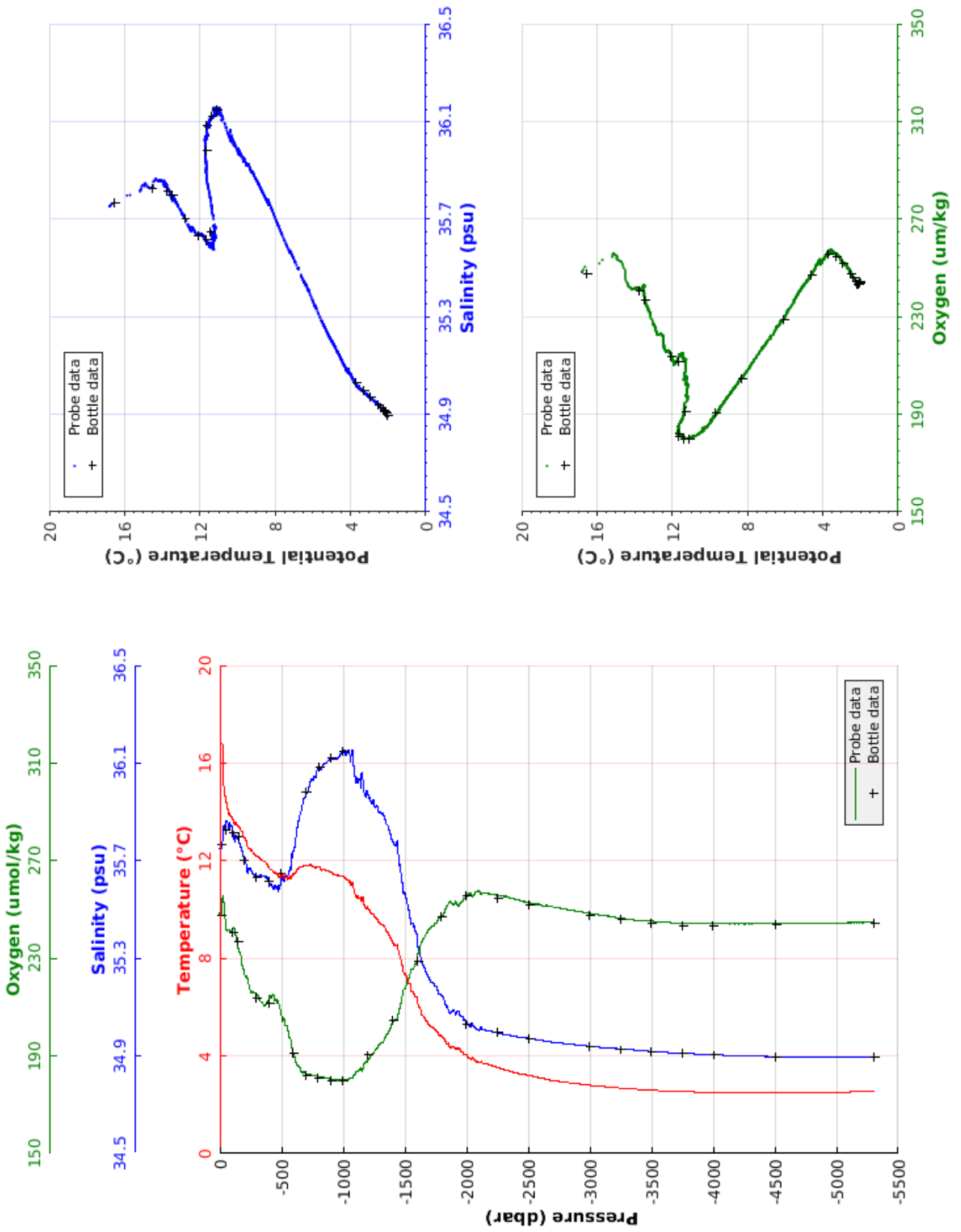
Station: 11

```

-----
| Cruise      : OVIDE 2018
| Station    : 12          Cast      : 1
| Date       : 18/06/2018   Ship     : N/O THALASSA
| Depth      : 5214 m       Organism : IFREMER
| Position   : N 40 19.96
|             W 011 47.01
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.798	35.752	248.5	16.798	3050.0	2.768	34.937	248.1	2.517
10.0	16.799	35.752	248.4	16.798	3100.0	2.747	34.935	247.7	2.491
20.0	16.780	35.754	248.2	16.777	3150.0	2.725	34.933	247.3	2.464
30.0	15.128	35.825	255.8	15.123	3200.0	2.704	34.931	247.0	2.439
40.0	14.750	35.830	252.7	14.744	3250.0	2.683	34.929	246.4	2.413
50.0	14.483	35.853	245.1	14.475	3300.0	2.664	34.926	246.2	2.389
100.0	13.776	35.840	240.9	13.762	3350.0	2.649	34.925	245.8	2.369
150.0	13.407	35.788	234.7	13.386	3400.0	2.624	34.922	245.4	2.340
200.0	12.921	35.716	225.2	12.894	3450.0	2.611	34.921	245.5	2.322
250.0	12.472	35.667	217.3	12.439	3500.0	2.593	34.919	245.2	2.299
300.0	12.186	35.637	215.6	12.146	3550.0	2.582	34.917	245.0	2.282
350.0	12.002	35.637	211.8	11.956	3600.0	2.567	34.915	244.8	2.262
400.0	11.746	35.614	213.1	11.693	3650.0	2.555	34.914	244.7	2.245
450.0	11.516	35.600	213.1	11.458	3700.0	2.546	34.912	244.6	2.230
500.0	11.368	35.610	207.9	11.303	3750.0	2.537	34.911	244.4	2.216
550.0	11.236	35.623	202.3	11.166	3800.0	2.532	34.910	244.3	2.205
600.0	11.453	35.741	191.6	11.375	3850.0	2.526	34.909	244.3	2.194
650.0	11.729	35.875	185.4	11.643	3900.0	2.517	34.907	244.2	2.180
700.0	11.791	35.972	182.8	11.698	3950.0	2.513	34.906	244.3	2.170
750.0	11.795	36.032	182.1	11.695	4000.0	2.508	34.905	244.2	2.159
800.0	11.750	36.080	181.6	11.643	4050.0	2.500	34.904	244.1	2.146
850.0	11.615	36.097	181.1	11.502	4100.0	2.494	34.903	244.1	2.135
900.0	11.529	36.114	180.5	11.409	4150.0	2.489	34.902	244.1	2.123
950.0	11.399	36.117	180.2	11.274	4200.0	2.489	34.901	244.1	2.118
1000.0	11.386	36.154	180.1	11.254	4250.0	2.487	34.900	244.1	2.110
1050.0	11.201	36.153	180.2	11.063	4300.0	2.483	34.900	244.1	2.100
1100.0	10.615	36.045	182.6	10.475	4350.0	2.481	34.899	244.2	2.092
1150.0	10.507	36.055	184.6	10.362	4400.0	2.480	34.898	244.2	2.086
1200.0	10.067	35.979	187.8	9.919	4450.0	2.482	34.898	244.2	2.082
1250.0	9.765	35.941	191.1	9.613	4500.0	2.482	34.897	244.3	2.076
1300.0	9.435	35.897	194.7	9.279	4550.0	2.483	34.896	244.4	2.070
1350.0	9.136	35.857	198.0	8.977	4600.0	2.486	34.896	244.3	2.067
1400.0	8.662	35.783	203.1	8.501	4650.0	2.488	34.896	244.3	2.063
1450.0	8.264	35.723	207.0	8.101	4700.0	2.490	34.896	244.4	2.059
1500.0	7.389	35.572	217.2	7.230	4750.0	2.494	34.895	244.4	2.056
1550.0	6.675	35.450	224.6	6.519	4800.0	2.498	34.895	244.4	2.053
1600.0	6.315	35.392	228.5	6.157	4850.0	2.501	34.895	244.5	2.051
1650.0	5.614	35.271	237.5	5.460	4900.0	2.505	34.894	244.5	2.048
1700.0	5.276	35.217	241.8	5.120	4950.0	2.510	34.894	244.4	2.047
1750.0	5.041	35.184	244.4	4.883	5000.0	2.516	34.894	244.4	2.046
1800.0	4.813	35.150	246.8	4.654	5050.0	2.521	34.894	244.4	2.044
1850.0	4.497	35.100	251.2	4.337	5100.0	2.526	34.894	244.6	2.043
1900.0	4.355	35.084	251.9	4.192	5150.0	2.531	34.893	244.7	2.041
1950.0	4.208	35.068	252.3	4.043	5200.0	2.534	34.893	244.7	2.038
2000.0	4.032	35.043	254.7	3.864	5250.0	2.541	34.893	244.8	2.038
2050.0	3.925	35.034	255.3	3.754	5300.0	2.548	34.893	244.8	2.038
2100.0	3.730	35.006	257.6	3.557	5309.0	2.549	34.893	244.9	2.038
2150.0	3.677	35.006	256.9	3.499					
2200.0	3.620	35.002	256.1	3.439					
2250.0	3.540	34.996	255.8	3.355					
2300.0	3.447	34.988	255.4	3.258					
2350.0	3.386	34.985	255.0	3.194					
2400.0	3.312	34.980	254.2	3.117					
2450.0	3.251	34.976	253.5	3.052					
2500.0	3.201	34.972	252.9	2.997					
2550.0	3.157	34.969	252.3	2.949					
2600.0	3.107	34.965	251.7	2.895					
2650.0	3.044	34.960	251.6	2.828					
2700.0	2.997	34.956	251.1	2.777					
2750.0	2.957	34.953	250.6	2.733					
2800.0	2.920	34.950	250.2	2.692					
2850.0	2.890	34.948	249.7	2.657					
2900.0	2.860	34.945	249.3	2.622					
2950.0	2.830	34.943	248.9	2.588					
3000.0	2.800	34.940	248.5	2.554					



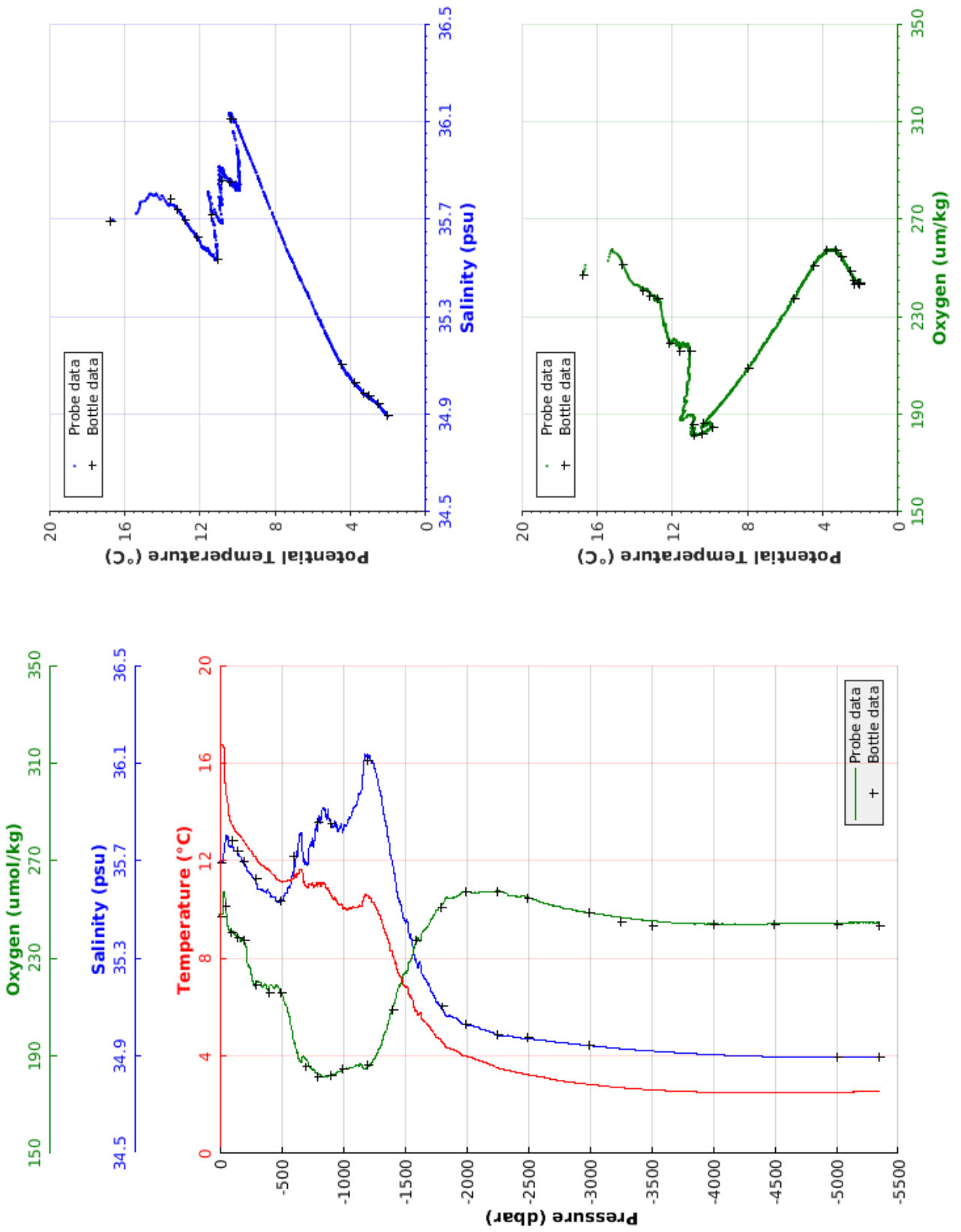
Station: 12


```

-----
| Cruise      : OVIDE 2018
| Station    : 13          Cast      : 1
| Date       : 19/06/2018   Ship       : N/O THALASSA
| Depth      : 5260 m       Organism  : IPREMER
| Position   : N 40 20.02
|             W 012 13.43
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.745	35.694	247.8	16.745	3050.0	2.807	34.940	248.3	2.555
10.0	16.747	35.694	248.1	16.745	3100.0	2.773	34.937	247.9	2.517
20.0	16.744	35.694	248.2	16.741	3150.0	2.747	34.935	247.6	2.486
30.0	16.687	35.695	248.8	16.682	3200.0	2.724	34.932	247.1	2.458
40.0	15.189	35.759	257.5	15.182	3250.0	2.701	34.930	246.8	2.431
50.0	14.799	35.786	254.3	14.792	3300.0	2.681	34.928	246.5	2.406
100.0	13.467	35.759	241.1	13.453	3350.0	2.659	34.925	246.2	2.379
150.0	13.097	35.730	238.8	13.076	3400.0	2.644	34.924	245.9	2.359
200.0	12.779	35.689	237.4	12.751	3450.0	2.626	34.922	245.6	2.336
250.0	12.395	35.647	226.3	12.362	3500.0	2.613	34.920	245.4	2.318
300.0	12.058	35.609	219.5	12.018	3550.0	2.600	34.918	245.2	2.300
350.0	11.799	35.583	218.2	11.753	3600.0	2.584	34.917	244.8	2.278
400.0	11.594	35.570	217.5	11.543	3650.0	2.571	34.915	244.6	2.260
450.0	11.371	35.554	217.7	11.314	3700.0	2.559	34.913	244.4	2.243
500.0	11.146	35.535	216.3	11.082	3750.0	2.545	34.911	244.3	2.223
550.0	11.168	35.571	209.8	11.098	3800.0	2.536	34.910	244.2	2.209
600.0	11.305	35.653	197.8	11.228	3850.0	2.529	34.909	244.1	2.197
650.0	11.649	35.807	188.3	11.563	3900.0	2.519	34.908	244.1	2.182
700.0	10.967	35.693	188.8	10.879	3950.0	2.513	34.906	244.0	2.170
750.0	11.076	35.789	184.4	10.980	4000.0	2.503	34.905	244.1	2.155
800.0	11.064	35.860	182.4	10.962	4050.0	2.500	34.904	244.0	2.146
850.0	11.046	35.913	181.5	10.937	4100.0	2.495	34.903	244.0	2.135
900.0	10.589	35.861	181.8	10.476	4150.0	2.489	34.902	244.0	2.123
950.0	10.364	35.847	182.9	10.246	4200.0	2.485	34.901	243.9	2.114
1000.0	10.018	35.818	184.6	9.896	4250.0	2.483	34.900	243.9	2.106
1050.0	10.055	35.874	184.9	9.926	4300.0	2.480	34.899	244.0	2.097
1100.0	10.072	35.924	185.9	9.936	4350.0	2.479	34.899	244.0	2.090
1150.0	10.157	35.985	186.8	10.014	4400.0	2.477	34.898	244.0	2.083
1200.0	10.542	36.127	185.4	10.389	4450.0	2.477	34.897	244.2	2.076
1250.0	10.256	36.096	188.3	10.099	4500.0	2.477	34.897	244.3	2.070
1300.0	9.700	35.988	193.1	9.541	4550.0	2.479	34.896	244.3	2.066
1350.0	8.977	35.852	200.0	8.819	4600.0	2.479	34.896	244.3	2.060
1400.0	8.124	35.687	208.7	7.969	4650.0	2.482	34.895	244.2	2.057
1450.0	7.384	35.548	217.5	7.231	4700.0	2.484	34.895	244.4	2.053
1500.0	6.877	35.461	223.5	6.723	4750.0	2.487	34.894	244.4	2.050
1550.0	6.380	35.386	229.0	6.227	4800.0	2.492	34.894	244.3	2.048
1600.0	5.716	35.270	236.8	5.566	4850.0	2.497	34.894	244.3	2.047
1650.0	5.466	35.229	240.8	5.314	4900.0	2.503	34.894	244.3	2.046
1700.0	5.230	35.192	243.9	5.075	4950.0	2.509	34.894	244.4	2.045
1750.0	4.842	35.131	248.4	4.687	5000.0	2.514	34.894	244.3	2.044
1800.0	4.595	35.096	251.6	4.439	5050.0	2.519	34.894	244.5	2.042
1850.0	4.338	35.061	254.9	4.180	5100.0	2.523	34.893	244.7	2.040
1900.0	4.250	35.058	254.8	4.089	5150.0	2.528	34.893	244.7	2.038
1950.0	4.099	35.040	255.9	3.935	5200.0	2.533	34.893	244.7	2.037
2000.0	3.983	35.026	257.3	3.815	5250.0	2.539	34.893	244.7	2.036
2050.0	3.915	35.024	256.9	3.744	5300.0	2.546	34.893	244.7	2.037
2100.0	3.819	35.015	256.9	3.644	5350.0	2.553	34.893	244.8	2.036
2150.0	3.744	35.007	257.3	3.565	5353.0	2.553	34.893	244.7	2.037
2200.0	3.641	34.999	257.2	3.459					
2250.0	3.514	34.985	257.8	3.330					
2300.0	3.445	34.982	257.1	3.256					
2350.0	3.400	34.982	255.7	3.208					
2400.0	3.332	34.977	255.5	3.136					
2450.0	3.284	34.972	255.5	3.083					
2500.0	3.234	34.969	255.0	3.030					
2550.0	3.191	34.968	254.1	2.983					
2600.0	3.145	34.965	253.1	2.933					
2650.0	3.095	34.962	252.5	2.879					
2700.0	3.039	34.959	251.7	2.818					
2750.0	2.990	34.955	251.2	2.765					
2800.0	2.953	34.952	250.5	2.724					
2850.0	2.921	34.950	250.1	2.688					
2900.0	2.894	34.948	249.4	2.656					
2950.0	2.859	34.945	248.9	2.616					
3000.0	2.833	34.942	248.6	2.586					



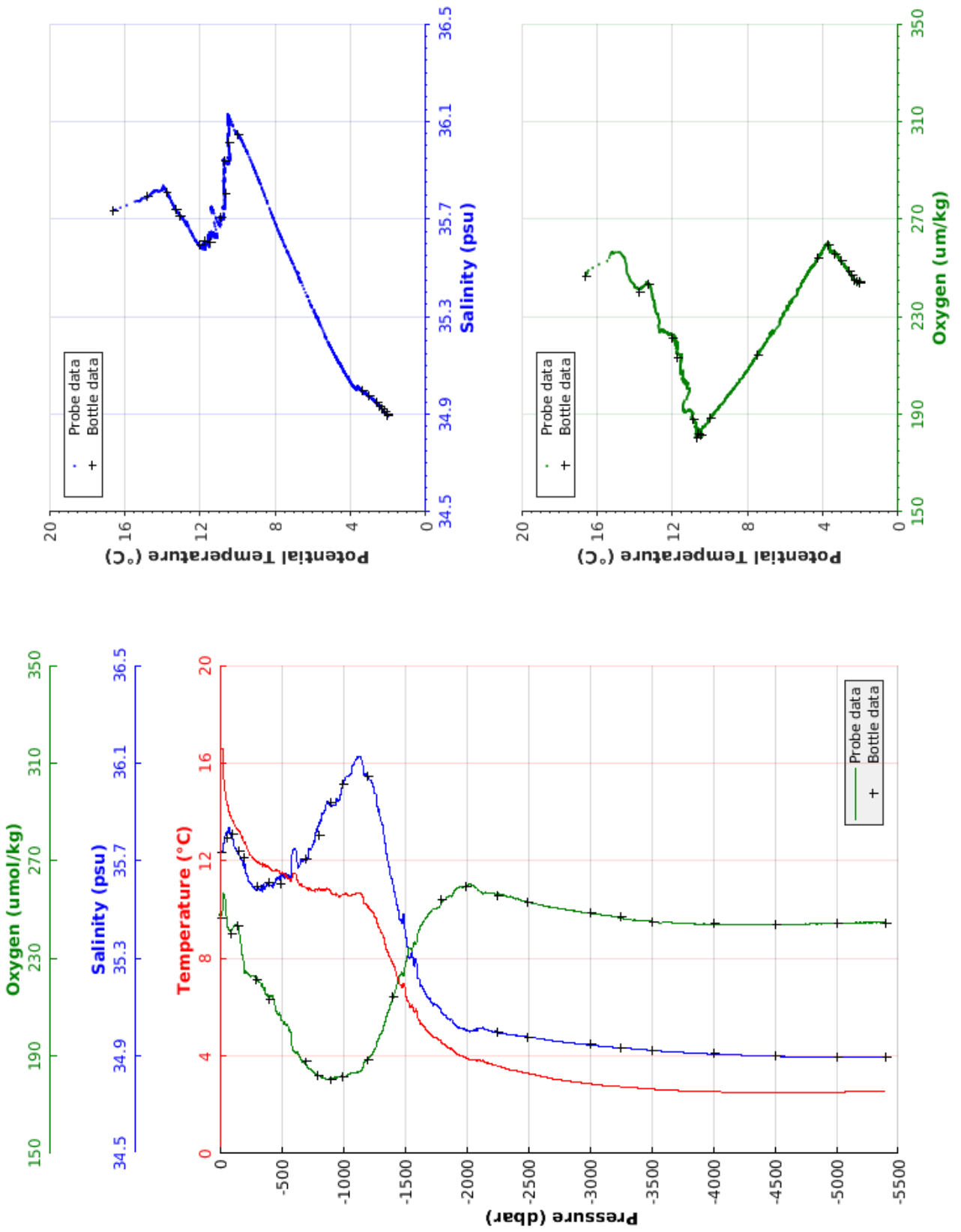
Station: 13

```

-----
| Cruise      : OVIDE 2018
| Station    : 14          Cast      : 1
| Date       : 19/06/2018   Ship     : N/O THALASSA
| Depth      : 5305 m      Organism : IFREMER
| Position   : N 40 33.12
|             W 012 39.27
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.584	35.736	248.0	16.584	3050.0	2.829	34.942	248.0	2.577
10.0	16.584	35.736	247.6	16.583	3100.0	2.795	34.939	247.7	2.538
20.0	16.586	35.736	247.8	16.583	3150.0	2.777	34.937	247.5	2.516
30.0	15.454	35.772	252.9	15.450	3200.0	2.757	34.935	247.1	2.490
40.0	15.090	35.785	256.2	15.084	3250.0	2.740	34.933	246.8	2.469
50.0	14.544	35.806	253.9	14.537	3300.0	2.718	34.931	246.0	2.442
100.0	13.670	35.794	241.8	13.656	3350.0	2.704	34.930	245.6	2.423
150.0	13.257	35.733	243.4	13.236	3400.0	2.682	34.927	245.4	2.396
200.0	12.715	35.672	227.8	12.688	3450.0	2.666	34.926	245.3	2.375
250.0	12.225	35.608	223.0	12.191	3500.0	2.645	34.923	245.2	2.349
300.0	11.947	35.580	222.2	11.908	3550.0	2.622	34.921	244.9	2.321
350.0	11.773	35.574	219.5	11.727	3600.0	2.607	34.919	244.7	2.301
400.0	11.728	35.605	214.5	11.676	3650.0	2.595	34.917	244.7	2.284
450.0	11.597	35.609	211.5	11.539	3700.0	2.585	34.916	244.5	2.268
500.0	11.504	35.636	205.4	11.439	3750.0	2.576	34.914	244.2	2.254
550.0	11.296	35.630	202.8	11.225	3800.0	2.567	34.913	244.2	2.240
600.0	11.499	35.748	192.2	11.421	3850.0	2.562	34.912	244.1	2.229
650.0	10.997	35.678	190.2	10.914	3900.0	2.551	34.910	244.0	2.213
700.0	10.889	35.705	186.5	10.800	3950.0	2.538	34.909	244.0	2.195
750.0	10.796	35.757	184.0	10.701	4000.0	2.532	34.908	244.0	2.183
800.0	10.844	35.841	182.3	10.743	4050.0	2.528	34.907	243.9	2.173
850.0	10.794	35.902	181.0	10.686	4100.0	2.523	34.906	243.9	2.163
900.0	10.733	35.934	180.6	10.619	4150.0	2.520	34.905	243.8	2.153
950.0	10.636	35.952	180.9	10.516	4200.0	2.515	34.904	243.9	2.143
1000.0	10.635	36.015	181.6	10.509	4250.0	2.510	34.903	243.8	2.133
1050.0	10.581	36.049	182.5	10.448	4300.0	2.505	34.902	243.9	2.121
1100.0	10.655	36.110	183.1	10.515	4350.0	2.500	34.901	243.9	2.110
1150.0	10.605	36.120	183.9	10.458	4400.0	2.498	34.900	243.9	2.102
1200.0	10.114	36.043	188.7	9.965	4450.0	2.498	34.899	244.0	2.096
1250.0	9.806	36.000	191.7	9.653	4500.0	2.496	34.898	243.9	2.089
1300.0	9.161	35.883	198.1	9.008	4550.0	2.496	34.898	244.0	2.083
1350.0	8.397	35.729	205.2	8.245	4600.0	2.497	34.897	243.9	2.078
1400.0	7.819	35.623	212.2	7.667	4650.0	2.500	34.897	243.8	2.074
1450.0	7.107	35.498	220.6	6.957	4700.0	2.503	34.897	243.9	2.071
1500.0	6.760	35.443	223.2	6.608	4750.0	2.504	34.896	244.1	2.065
1550.0	6.033	35.312	234.3	5.884	4800.0	2.504	34.896	244.1	2.060
1600.0	5.787	35.274	236.5	5.636	4850.0	2.508	34.895	244.1	2.058
1650.0	5.214	35.176	244.5	5.065	4900.0	2.511	34.895	244.2	2.054
1700.0	4.924	35.133	248.3	4.773	4950.0	2.516	34.895	244.2	2.053
1750.0	4.753	35.112	250.3	4.600	5000.0	2.519	34.894	244.2	2.049
1800.0	4.516	35.076	252.9	4.361	5050.0	2.525	34.894	244.1	2.048
1850.0	4.341	35.052	255.3	4.183	5100.0	2.530	34.894	244.4	2.047
1900.0	4.178	35.033	257.1	4.018	5150.0	2.534	34.894	244.6	2.045
1950.0	4.004	35.012	259.4	3.841	5200.0	2.538	34.894	244.6	2.042
2000.0	3.918	35.005	259.8	3.752	5250.0	2.543	34.893	244.8	2.040
2050.0	3.848	35.002	260.0	3.678	5300.0	2.548	34.893	244.7	2.039
2100.0	3.836	35.012	257.8	3.661	5350.0	2.554	34.893	244.9	2.037
2150.0	3.743	35.008	256.9	3.565	5400.0	2.560	34.893	244.8	2.037
2200.0	3.663	35.002	256.9	3.481	5403.0	2.560	34.893	244.8	2.037
2250.0	3.587	34.997	256.4	3.402					
2300.0	3.516	34.991	256.0	3.326					
2350.0	3.435	34.986	255.3	3.242					
2400.0	3.400	34.985	254.3	3.202					
2450.0	3.341	34.982	253.7	3.140					
2500.0	3.281	34.978	253.1	3.076					
2550.0	3.228	34.974	252.4	3.018					
2600.0	3.171	34.970	251.8	2.958					
2650.0	3.118	34.966	251.4	2.901					
2700.0	3.064	34.962	250.7	2.843					
2750.0	3.021	34.959	250.5	2.796					
2800.0	2.988	34.956	250.1	2.758					
2850.0	2.956	34.953	249.7	2.721					
2900.0	2.925	34.950	249.3	2.686					
2950.0	2.888	34.947	248.9	2.644					
3000.0	2.859	34.945	248.5	2.611					



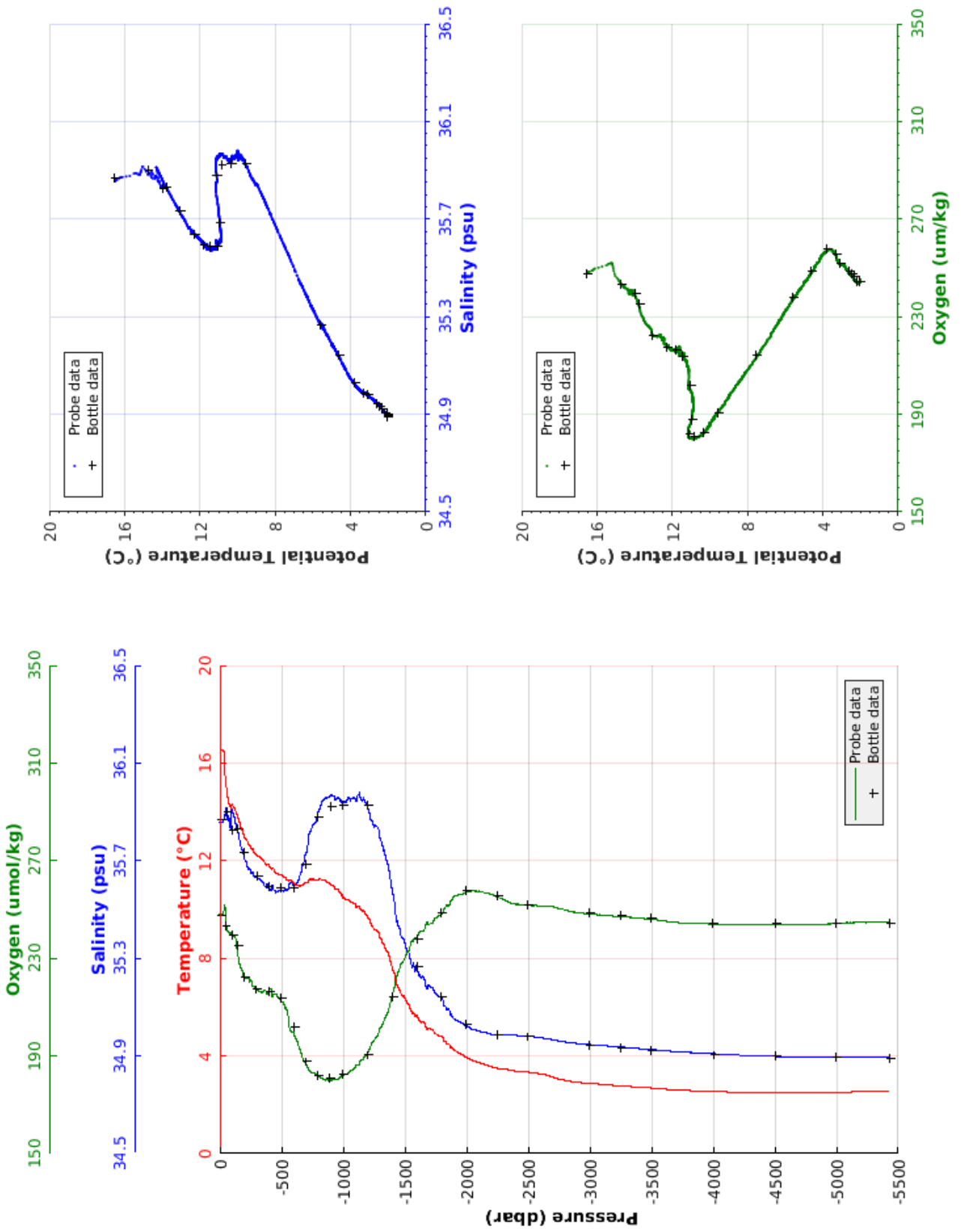
Station: 14

```

-----
| Cruise      : OVIDE 2018
| Station    : 15          Cast      : 1
| Date       : 19/06/2018   Ship       : N/O THALASSA
| Depth      : 5336 m      Organism  : IPREMER
| Position   : N 40 47.27
|             W 013 6.07
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.525	35.859	248.3	16.525	3050.0	2.854	34.944	247.9	2.602
10.0	16.525	35.859	248.2	16.523	3100.0	2.841	34.943	247.7	2.584
20.0	16.519	35.859	248.1	16.516	3150.0	2.815	34.940	247.5	2.553
30.0	16.494	35.858	248.2	16.489	3200.0	2.791	34.938	247.3	2.524
40.0	15.926	35.874	250.1	15.920	3250.0	2.784	34.937	247.1	2.511
50.0	15.140	35.895	249.7	15.132	3300.0	2.766	34.935	246.9	2.488
100.0	14.320	35.909	239.5	14.305	3350.0	2.741	34.932	246.7	2.459
150.0	13.735	35.819	233.2	13.714	3400.0	2.710	34.929	246.4	2.423
200.0	12.970	35.711	222.0	12.943	3450.0	2.701	34.928	246.1	2.409
250.0	12.568	35.663	220.5	12.535	3500.0	2.682	34.926	246.0	2.385
300.0	12.247	35.629	218.1	12.207	3550.0	2.663	34.924	245.7	2.361
350.0	12.011	35.615	216.0	11.965	3600.0	2.651	34.923	245.4	2.344
400.0	11.778	35.591	216.6	11.726	3650.0	2.625	34.920	245.0	2.313
450.0	11.538	35.576	215.4	11.480	3700.0	2.611	34.918	244.7	2.294
500.0	11.405	35.581	212.9	11.341	3750.0	2.594	34.916	244.4	2.272
550.0	11.196	35.578	208.7	11.126	3800.0	2.583	34.915	244.2	2.255
600.0	11.093	35.601	199.6	11.016	3850.0	2.574	34.913	244.2	2.241
650.0	10.961	35.634	193.1	10.879	3900.0	2.567	34.912	244.2	2.228
700.0	11.094	35.729	186.9	11.004	3950.0	2.557	34.911	244.1	2.213
750.0	11.231	35.836	183.2	11.134	4000.0	2.544	34.909	244.0	2.194
800.0	11.234	35.898	181.6	11.131	4050.0	2.538	34.908	243.9	2.183
850.0	11.209	35.954	180.3	11.099	4100.0	2.527	34.906	243.9	2.167
900.0	11.037	35.966	179.9	10.921	4150.0	2.523	34.905	243.9	2.157
950.0	10.826	35.956	180.5	10.705	4200.0	2.511	34.904	243.8	2.139
1000.0	10.513	35.943	182.1	10.387	4250.0	2.502	34.902	243.8	2.124
1050.0	10.383	35.957	183.0	10.252	4300.0	2.498	34.901	243.9	2.115
1100.0	10.196	35.954	185.0	10.060	4350.0	2.492	34.900	243.9	2.103
1150.0	9.941	35.947	188.0	9.800	4400.0	2.491	34.899	243.9	2.096
1200.0	9.703	35.919	191.0	9.558	4450.0	2.488	34.898	244.0	2.087
1250.0	9.224	35.847	196.2	9.076	4500.0	2.490	34.898	243.8	2.083
1300.0	8.826	35.793	200.8	8.677	4550.0	2.489	34.897	243.8	2.076
1350.0	8.291	35.700	206.6	8.140	4600.0	2.490	34.897	243.9	2.071
1400.0	7.611	35.581	214.3	7.461	4650.0	2.490	34.896	243.8	2.065
1450.0	6.778	35.432	224.3	6.632	4700.0	2.493	34.896	243.9	2.062
1500.0	6.369	35.366	229.5	6.221	4750.0	2.498	34.896	244.0	2.061
1550.0	5.881	35.287	235.3	5.734	4800.0	2.503	34.896	243.9	2.058
1600.0	5.629	35.262	238.0	5.479	4850.0	2.506	34.895	243.9	2.055
1650.0	5.382	35.224	241.2	5.231	4900.0	2.509	34.895	244.0	2.052
1700.0	5.130	35.189	244.0	4.977	4950.0	2.513	34.895	244.1	2.050
1750.0	4.916	35.156	246.3	4.761	5000.0	2.516	34.894	244.4	2.046
1800.0	4.775	35.137	247.8	4.616	5050.0	2.521	34.894	244.4	2.044
1850.0	4.491	35.094	251.7	4.331	5100.0	2.525	34.894	244.5	2.042
1900.0	4.211	35.051	255.2	4.050	5150.0	2.530	34.894	244.8	2.040
1950.0	4.092	35.039	256.2	3.927	5200.0	2.535	34.894	244.8	2.039
2000.0	3.942	35.024	257.1	3.776	5250.0	2.540	34.893	244.7	2.037
2050.0	3.812	35.009	257.7	3.642	5300.0	2.546	34.893	244.7	2.037
2100.0	3.735	35.002	257.5	3.562	5350.0	2.552	34.893	244.9	2.035
2150.0	3.649	34.997	256.9	3.472	5400.0	2.558	34.893	245.0	2.035
2200.0	3.564	34.989	256.3	3.384	5433.0	2.563	34.893	245.0	2.035
2250.0	3.490	34.984	255.3	3.305					
2300.0	3.467	34.986	254.3	3.278					
2350.0	3.422	34.986	252.8	3.230					
2400.0	3.384	34.984	252.3	3.186					
2450.0	3.367	34.983	252.0	3.165					
2500.0	3.338	34.980	251.8	3.132					
2550.0	3.313	34.978	251.6	3.102					
2600.0	3.263	34.975	251.5	3.048					
2650.0	3.212	34.971	251.5	2.993					
2700.0	3.135	34.967	251.3	2.912					
2750.0	3.057	34.962	250.5	2.830					
2800.0	3.004	34.958	249.7	2.774					
2850.0	2.949	34.953	249.1	2.715					
2900.0	2.926	34.951	248.8	2.687					
2950.0	2.895	34.948	248.4	2.652					
3000.0	2.878	34.946	248.2	2.630					



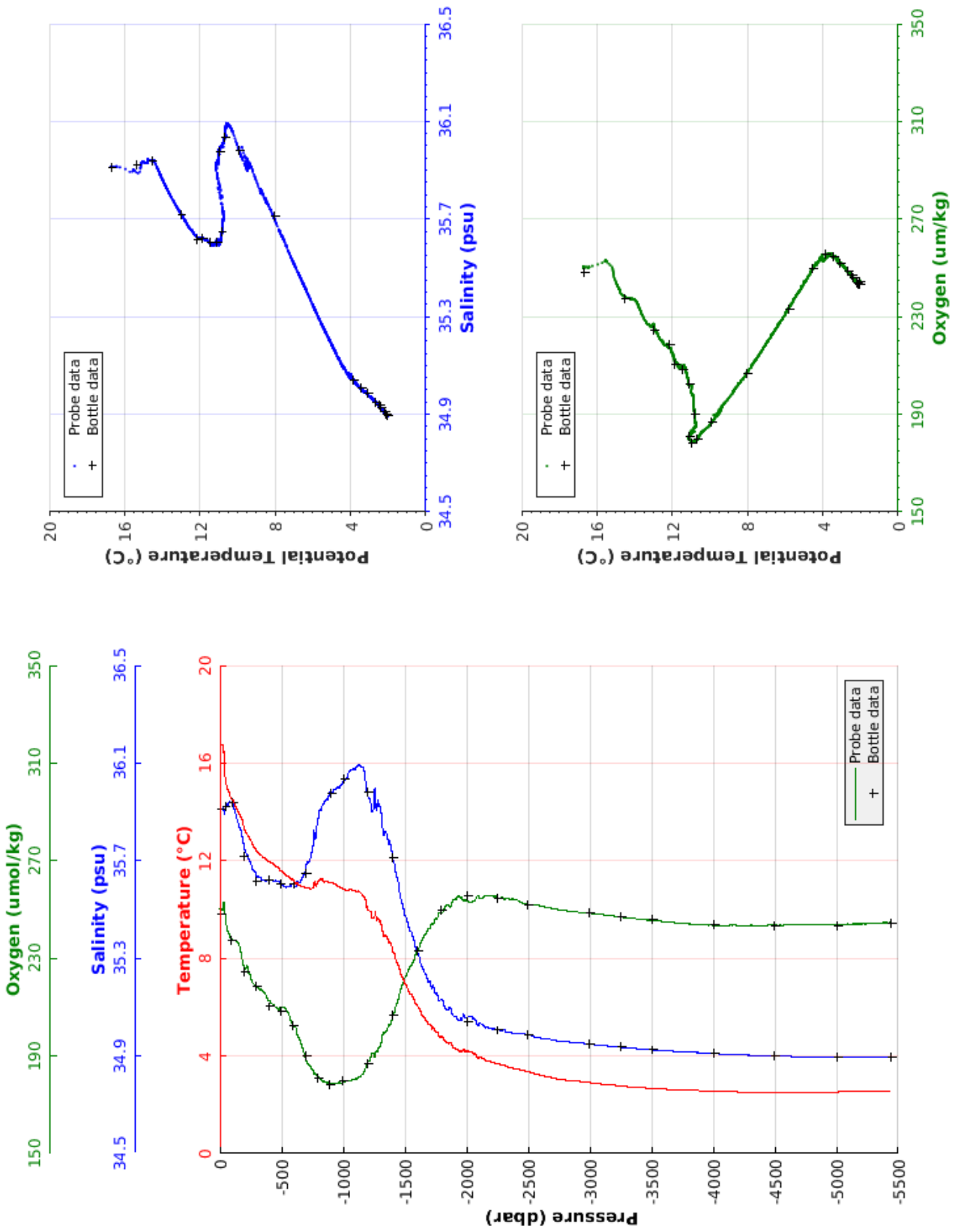
Station: 15

```

-----
| Cruise      : OVIDE 2018
| Station    : 16          Cast      : 1
| Date       : 19/06/2018   Ship       : N/O THALASSA
| Depth      : 5346 m       Organism  : IPREMER
| Position   : N 41 5.28
|             W 013 29.78
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.733	35.913	250.3	16.733	3050.0	2.873	34.946	248.3	2.619
10.0	16.735	35.913	250.1	16.733	3100.0	2.838	34.942	248.1	2.580
20.0	16.736	35.913	249.9	16.733	3150.0	2.818	34.940	247.6	2.556
30.0	16.661	35.914	250.1	16.656	3200.0	2.798	34.938	247.3	2.530
40.0	15.523	35.903	253.1	15.517	3250.0	2.772	34.936	247.0	2.500
50.0	15.132	35.923	247.9	15.124	3300.0	2.748	34.933	246.6	2.471
100.0	14.492	35.941	237.8	14.477	3350.0	2.722	34.931	246.4	2.440
150.0	13.986	35.858	236.7	13.964	3400.0	2.707	34.929	246.1	2.420
200.0	13.312	35.757	226.8	13.284	3450.0	2.689	34.927	245.9	2.397
250.0	12.836	35.695	223.5	12.801	3500.0	2.673	34.925	245.6	2.376
300.0	12.368	35.640	218.5	12.327	3550.0	2.656	34.924	245.3	2.354
350.0	12.144	35.621	217.1	12.097	3600.0	2.642	34.922	245.0	2.335
400.0	11.965	35.621	212.7	11.912	3650.0	2.631	34.920	244.8	2.318
450.0	11.792	35.616	210.5	11.733	3700.0	2.618	34.919	244.6	2.300
500.0	11.576	35.603	209.9	11.511	3750.0	2.609	34.917	244.5	2.286
550.0	11.375	35.593	208.4	11.304	3800.0	2.597	34.916	244.1	2.269
600.0	11.224	35.608	202.4	11.147	3850.0	2.589	34.915	243.8	2.255
650.0	10.972	35.612	197.1	10.889	3900.0	2.577	34.913	243.7	2.238
700.0	10.896	35.668	189.1	10.808	3950.0	2.565	34.911	243.7	2.221
750.0	10.871	35.734	184.9	10.776	4000.0	2.554	34.910	243.5	2.205
800.0	11.167	35.872	181.5	11.064	4050.0	2.547	34.909	243.5	2.191
850.0	11.147	35.938	179.5	11.037	4100.0	2.539	34.907	243.5	2.178
900.0	11.092	35.983	178.7	10.976	4150.0	2.534	34.906	243.6	2.167
950.0	10.971	35.999	178.9	10.848	4200.0	2.528	34.905	243.4	2.155
1000.0	10.854	36.023	179.2	10.725	4250.0	2.521	34.904	243.4	2.143
1050.0	10.808	36.062	179.9	10.673	4300.0	2.518	34.903	243.5	2.134
1100.0	10.759	36.074	180.4	10.618	4350.0	2.516	34.902	243.5	2.126
1150.0	10.635	36.086	182.0	10.489	4400.0	2.510	34.901	243.4	2.115
1200.0	10.024	35.971	187.1	9.876	4450.0	2.509	34.900	243.6	2.107
1250.0	9.664	35.912	191.1	9.513	4500.0	2.507	34.900	243.6	2.100
1300.0	9.501	35.926	193.5	9.344	4550.0	2.507	34.899	243.5	2.094
1350.0	8.884	35.815	199.8	8.728	4600.0	2.507	34.898	243.6	2.087
1400.0	8.354	35.728	205.0	8.197	4650.0	2.506	34.898	243.7	2.080
1450.0	7.683	35.612	212.8	7.527	4700.0	2.506	34.897	243.8	2.074
1500.0	6.956	35.482	221.3	6.802	4750.0	2.508	34.897	243.7	2.070
1550.0	6.526	35.412	226.8	6.371	4800.0	2.510	34.896	243.7	2.066
1600.0	6.059	35.330	232.3	5.905	4850.0	2.515	34.896	243.7	2.064
1650.0	5.603	35.255	238.3	5.449	4900.0	2.518	34.896	243.8	2.060
1700.0	5.275	35.204	242.4	5.119	4950.0	2.522	34.895	243.8	2.058
1750.0	4.986	35.157	245.9	4.830	5000.0	2.525	34.895	243.8	2.055
1800.0	4.783	35.130	248.4	4.624	5050.0	2.530	34.895	243.8	2.053
1850.0	4.522	35.088	251.9	4.362	5100.0	2.534	34.895	244.0	2.051
1900.0	4.307	35.061	254.0	4.144	5150.0	2.539	34.895	244.2	2.049
1950.0	4.182	35.046	255.3	4.016	5200.0	2.544	34.894	244.0	2.048
2000.0	4.195	35.059	253.7	4.024	5250.0	2.548	34.894	244.2	2.045
2050.0	4.123	35.055	253.1	3.948	5300.0	2.552	34.894	244.3	2.042
2100.0	3.943	35.034	255.5	3.767	5350.0	2.557	34.894	244.5	2.041
2150.0	3.847	35.022	255.3	3.667	5400.0	2.561	34.893	244.6	2.038
2200.0	3.756	35.012	255.8	3.572	5446.0	2.566	34.893	244.7	2.037
2250.0	3.708	35.013	255.0	3.520					
2300.0	3.645	35.009	254.5	3.453					
2350.0	3.533	34.996	254.5	3.338					
2400.0	3.461	34.991	254.2	3.263					
2450.0	3.428	34.992	252.8	3.225					
2500.0	3.358	34.987	252.1	3.151					
2550.0	3.285	34.980	252.0	3.074					
2600.0	3.216	34.974	251.5	3.002					
2650.0	3.162	34.970	250.8	2.944					
2700.0	3.099	34.965	250.4	2.877					
2750.0	3.044	34.961	249.9	2.818					
2800.0	3.014	34.959	249.6	2.783					
2850.0	2.990	34.956	249.2	2.755					
2900.0	2.964	34.954	249.0	2.724					
2950.0	2.938	34.952	248.7	2.694					
3000.0	2.905	34.949	248.5	2.657					



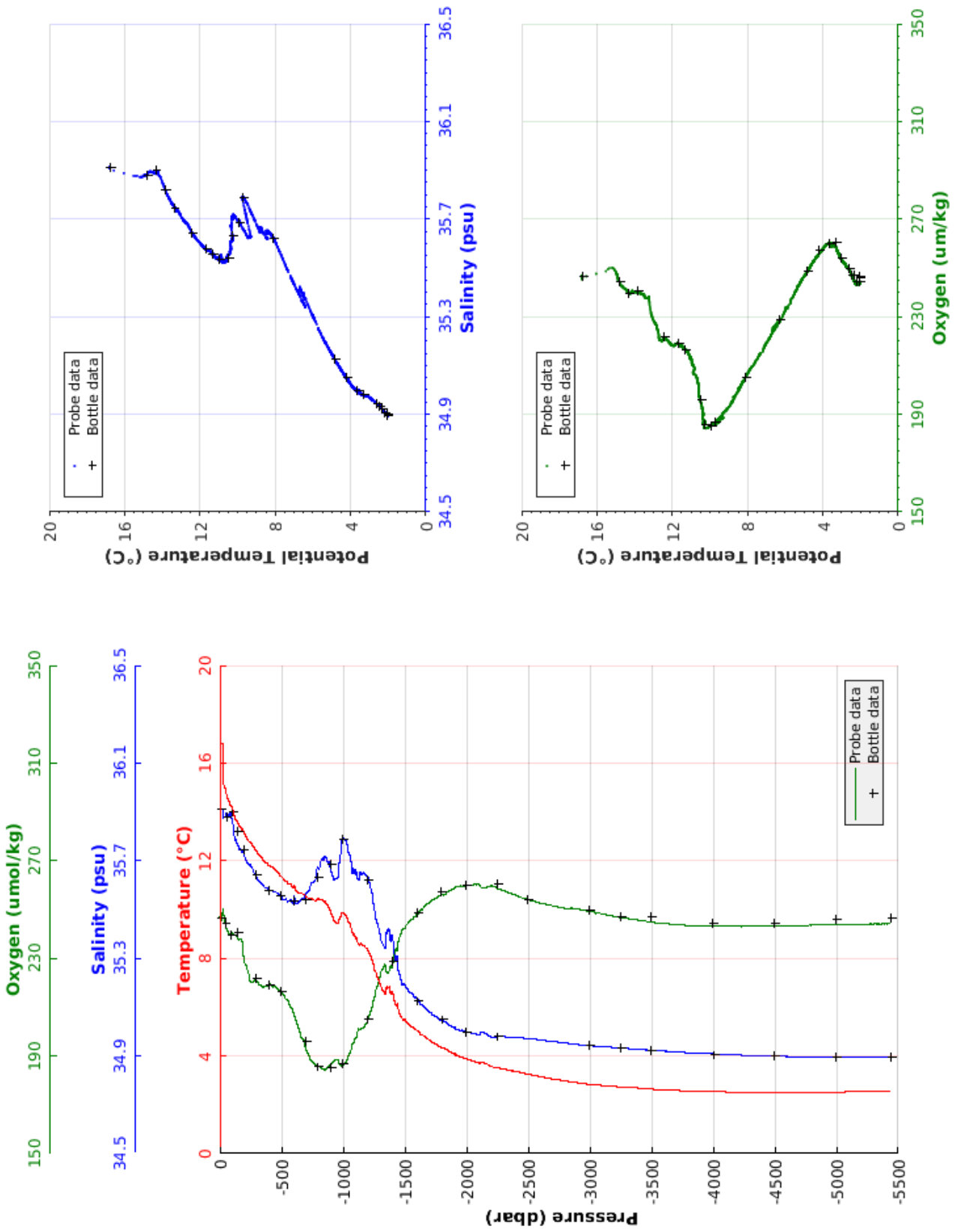
Station: 16


```

-----
| Cruise      : OVIDE 2018
| Station     : 17          Cast      : 1
| Date       : 20/06/2018   Ship     : N/O THALASSA
| Depth      : 5342 m       Organism : IFREMER
| Position   : N 41 22.99
|            : W 013 53.33
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.778	35.911	246.8	16.778	3050.0	2.816	34.940	248.4	2.564
10.0	16.781	35.911	246.9	16.780	3100.0	2.792	34.938	248.3	2.535
20.0	16.783	35.911	246.1	16.780	3150.0	2.773	34.936	247.7	2.511
30.0	15.200	35.873	250.0	15.195	3200.0	2.747	34.934	247.2	2.481
40.0	14.957	35.880	247.6	14.951	3250.0	2.729	34.932	246.7	2.458
50.0	14.786	35.887	244.0	14.779	3300.0	2.712	34.930	246.3	2.436
100.0	14.144	35.875	240.5	14.129	3350.0	2.701	34.929	246.0	2.420
150.0	13.505	35.763	238.5	13.484	3400.0	2.685	34.927	245.6	2.398
200.0	13.108	35.723	230.4	13.080	3450.0	2.660	34.925	245.2	2.369
250.0	12.730	35.684	220.8	12.695	3500.0	2.642	34.923	244.8	2.346
300.0	12.361	35.633	220.7	12.321	3550.0	2.626	34.921	244.5	2.325
350.0	12.039	35.602	218.3	11.993	3600.0	2.615	34.920	244.3	2.308
400.0	11.798	35.581	219.1	11.746	3650.0	2.603	34.918	244.1	2.292
450.0	11.636	35.573	218.5	11.577	3700.0	2.586	34.916	243.8	2.269
500.0	11.343	35.550	216.3	11.279	3750.0	2.576	34.915	243.6	2.254
550.0	11.074	35.532	213.3	11.004	3800.0	2.563	34.913	243.5	2.236
600.0	10.903	35.531	208.3	10.827	3850.0	2.558	34.912	243.3	2.225
650.0	10.691	35.534	200.7	10.610	3900.0	2.551	34.911	243.3	2.213
700.0	10.512	35.556	193.1	10.426	3950.0	2.545	34.910	243.2	2.201
750.0	10.439	35.609	187.7	10.346	4000.0	2.539	34.909	243.1	2.190
800.0	10.429	35.667	186.0	10.330	4050.0	2.532	34.907	243.1	2.177
850.0	10.321	35.708	184.4	10.217	4100.0	2.529	34.907	243.1	2.168
900.0	9.841	35.661	186.3	9.733	4150.0	2.519	34.905	243.1	2.153
950.0	9.420	35.626	188.4	9.309	4200.0	2.513	34.904	243.1	2.141
1000.0	9.854	35.788	186.1	9.733	4250.0	2.508	34.903	243.1	2.131
1050.0	9.429	35.730	190.4	9.305	4300.0	2.503	34.902	243.1	2.120
1100.0	8.802	35.642	196.9	8.677	4350.0	2.500	34.901	243.1	2.111
1150.0	8.548	35.646	201.1	8.419	4400.0	2.497	34.900	243.1	2.102
1200.0	8.310	35.629	204.2	8.177	4450.0	2.495	34.899	243.2	2.094
1250.0	7.603	35.513	212.8	7.471	4500.0	2.497	34.899	243.4	2.089
1300.0	6.934	35.401	221.6	6.803	4550.0	2.497	34.898	243.4	2.084
1350.0	6.795	35.406	225.5	6.659	4600.0	2.498	34.898	243.4	2.078
1400.0	6.649	35.397	225.9	6.509	4650.0	2.498	34.897	243.4	2.073
1450.0	5.840	35.250	236.4	5.704	4700.0	2.500	34.896	243.5	2.068
1500.0	5.485	35.197	242.1	5.348	4750.0	2.504	34.896	243.5	2.066
1550.0	5.219	35.158	245.7	5.079	4800.0	2.505	34.896	243.6	2.061
1600.0	5.040	35.134	247.9	4.898	4850.0	2.507	34.895	243.7	2.057
1650.0	4.832	35.107	250.2	4.688	4900.0	2.512	34.895	243.7	2.054
1700.0	4.644	35.082	252.7	4.497	4950.0	2.514	34.895	243.6	2.051
1750.0	4.476	35.062	254.3	4.326	5000.0	2.520	34.895	243.7	2.050
1800.0	4.344	35.047	255.9	4.191	5050.0	2.525	34.894	243.8	2.048
1850.0	4.219	35.031	257.2	4.063	5100.0	2.530	34.894	243.9	2.047
1900.0	4.080	35.015	258.5	3.921	5150.0	2.536	34.894	243.8	2.046
1950.0	3.952	35.005	259.6	3.790	5200.0	2.542	34.894	243.8	2.045
2000.0	3.881	34.999	259.9	3.715	5250.0	2.548	34.894	243.8	2.045
2050.0	3.801	34.994	260.2	3.632	5300.0	2.554	34.894	244.0	2.044
2100.0	3.705	34.987	260.3	3.532	5350.0	2.559	34.894	244.0	2.042
2150.0	3.688	34.993	258.8	3.510	5400.0	2.565	34.894	244.2	2.042
2200.0	3.569	34.979	259.7	3.388	5441.0	2.571	34.894	244.3	2.042
2250.0	3.509	34.978	259.0	3.324					
2300.0	3.469	34.979	257.9	3.280					
2350.0	3.422	34.978	256.9	3.229					
2400.0	3.360	34.975	256.0	3.163					
2450.0	3.305	34.974	254.9	3.104					
2500.0	3.266	34.972	254.2	3.061					
2550.0	3.207	34.969	253.4	2.998					
2600.0	3.152	34.966	252.6	2.940					
2650.0	3.099	34.962	252.0	2.883					
2700.0	3.058	34.959	251.5	2.837					
2750.0	3.014	34.957	251.0	2.789					
2800.0	2.973	34.954	250.2	2.743					
2850.0	2.936	34.950	250.4	2.702					
2900.0	2.902	34.947	250.3	2.663					
2950.0	2.866	34.944	249.8	2.623					
3000.0	2.838	34.942	249.3	2.590					



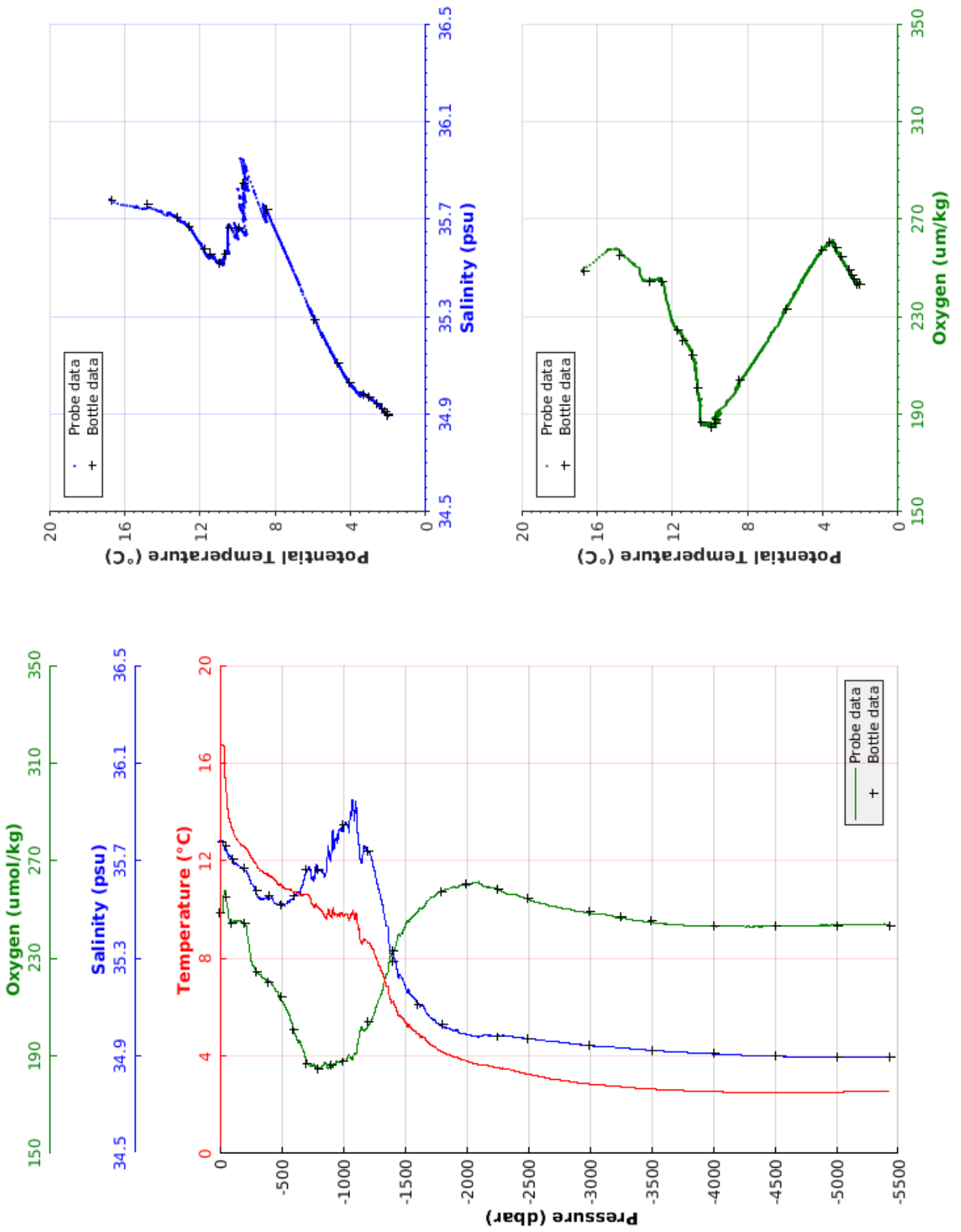
Station: 17

```

-----
| Cruise      : OVIDE 2018
| Station     : 18          Cast      : 1
| Date       : 20/06/2018   Ship     : N/O THALASSA
| Depth      : 5337 m       Organism : IFREMER
| Position   : N 41 41.04
|             W 014 16.74
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.757	35.781	248.9	16.757	3050.0	2.820	34.941	248.2	2.568
10.0	16.756	35.781	248.8	16.754	3100.0	2.808	34.939	248.0	2.551
20.0	16.758	35.781	248.6	16.755	3150.0	2.780	34.937	247.7	2.519
30.0	16.744	35.780	248.8	16.739	3200.0	2.764	34.936	247.0	2.497
40.0	15.494	35.749	256.8	15.487	3250.0	2.742	34.934	246.3	2.471
50.0	14.980	35.742	257.8	14.973	3300.0	2.717	34.931	246.2	2.441
100.0	13.354	35.713	244.5	13.340	3350.0	2.700	34.929	245.7	2.419
150.0	12.782	35.679	245.3	12.761	3400.0	2.675	34.927	245.3	2.389
200.0	12.558	35.663	244.0	12.531	3450.0	2.660	34.925	245.0	2.369
250.0	12.177	35.616	232.3	12.144	3500.0	2.644	34.923	244.7	2.348
300.0	11.776	35.562	224.9	11.737	3550.0	2.629	34.921	244.5	2.328
350.0	11.513	35.541	222.2	11.468	3600.0	2.616	34.920	244.1	2.309
400.0	11.413	35.553	220.6	11.362	3650.0	2.602	34.918	243.9	2.290
450.0	11.176	35.526	217.9	11.119	3700.0	2.590	34.916	243.7	2.273
500.0	10.999	35.530	213.2	10.937	3750.0	2.581	34.915	243.6	2.259
550.0	10.839	35.529	208.8	10.770	3800.0	2.573	34.914	243.4	2.246
600.0	10.741	35.551	201.8	10.666	3850.0	2.563	34.912	243.3	2.230
650.0	10.578	35.563	196.2	10.498	3900.0	2.554	34.911	243.3	2.216
700.0	10.608	35.652	189.1	10.521	3950.0	2.546	34.910	243.1	2.202
750.0	10.191	35.623	186.4	10.100	4000.0	2.538	34.908	243.1	2.189
800.0	10.063	35.662	185.0	9.966	4050.0	2.532	34.907	243.0	2.177
850.0	9.688	35.635	187.0	9.587	4100.0	2.525	34.906	243.1	2.165
900.0	9.720	35.704	186.8	9.613	4150.0	2.521	34.905	243.1	2.154
950.0	9.741	35.779	187.5	9.627	4200.0	2.516	34.904	243.1	2.144
1000.0	9.750	35.824	187.9	9.630	4250.0	2.509	34.903	243.0	2.131
1050.0	9.563	35.817	190.4	9.438	4300.0	2.503	34.902	243.0	2.120
1100.0	9.678	35.896	191.0	9.545	4350.0	2.502	34.901	243.1	2.113
1150.0	8.592	35.690	201.6	8.463	4400.0	2.500	34.900	243.0	2.105
1200.0	8.645	35.741	201.9	8.509	4450.0	2.497	34.900	243.2	2.096
1250.0	8.246	35.673	206.6	8.107	4500.0	2.496	34.899	243.3	2.089
1300.0	7.617	35.565	213.7	7.478	4550.0	2.497	34.898	243.2	2.084
1350.0	6.900	35.439	222.7	6.764	4600.0	2.499	34.898	243.3	2.079
1400.0	6.229	35.321	232.0	6.094	4650.0	2.500	34.897	243.3	2.075
1450.0	5.640	35.220	239.3	5.506	4700.0	2.502	34.897	243.4	2.070
1500.0	5.399	35.189	242.6	5.263	4750.0	2.504	34.896	243.4	2.066
1550.0	5.156	35.154	245.9	5.018	4800.0	2.507	34.896	243.4	2.063
1600.0	4.913	35.118	248.8	4.773	4850.0	2.510	34.896	243.4	2.059
1650.0	4.778	35.104	250.6	4.635	4900.0	2.513	34.895	243.5	2.056
1700.0	4.501	35.063	254.0	4.356	4950.0	2.516	34.895	243.6	2.053
1750.0	4.323	35.041	255.7	4.175	5000.0	2.521	34.895	243.6	2.051
1800.0	4.173	35.023	257.6	4.023	5050.0	2.526	34.894	243.6	2.049
1850.0	4.061	35.012	258.4	3.907	5100.0	2.531	34.894	243.8	2.047
1900.0	3.958	35.004	259.4	3.801	5150.0	2.537	34.894	243.7	2.047
1950.0	3.860	34.994	259.8	3.699	5200.0	2.543	34.894	243.8	2.046
2000.0	3.788	34.988	260.1	3.624	5250.0	2.550	34.894	243.9	2.046
2050.0	3.700	34.981	260.7	3.532	5300.0	2.556	34.894	243.8	2.046
2100.0	3.627	34.974	261.3	3.456	5350.0	2.562	34.894	243.9	2.045
2150.0	3.639	34.988	259.3	3.462	5400.0	2.568	34.894	243.9	2.044
2200.0	3.560	34.982	259.1	3.379	5433.0	2.572	34.894	243.9	2.044
2250.0	3.518	34.982	258.2	3.334					
2300.0	3.490	34.984	257.0	3.301					
2350.0	3.444	34.982	256.2	3.251					
2400.0	3.364	34.976	256.2	3.168					
2450.0	3.307	34.973	255.3	3.106					
2500.0	3.250	34.971	254.2	3.045					
2550.0	3.201	34.969	253.3	2.992					
2600.0	3.145	34.965	252.6	2.932					
2650.0	3.085	34.961	252.0	2.869					
2700.0	3.049	34.959	251.3	2.829					
2750.0	3.024	34.957	250.7	2.799					
2800.0	2.967	34.953	250.4	2.737					
2850.0	2.942	34.951	250.0	2.708					
2900.0	2.902	34.948	249.4	2.664					
2950.0	2.877	34.946	249.0	2.634					
3000.0	2.841	34.943	248.5	2.594					



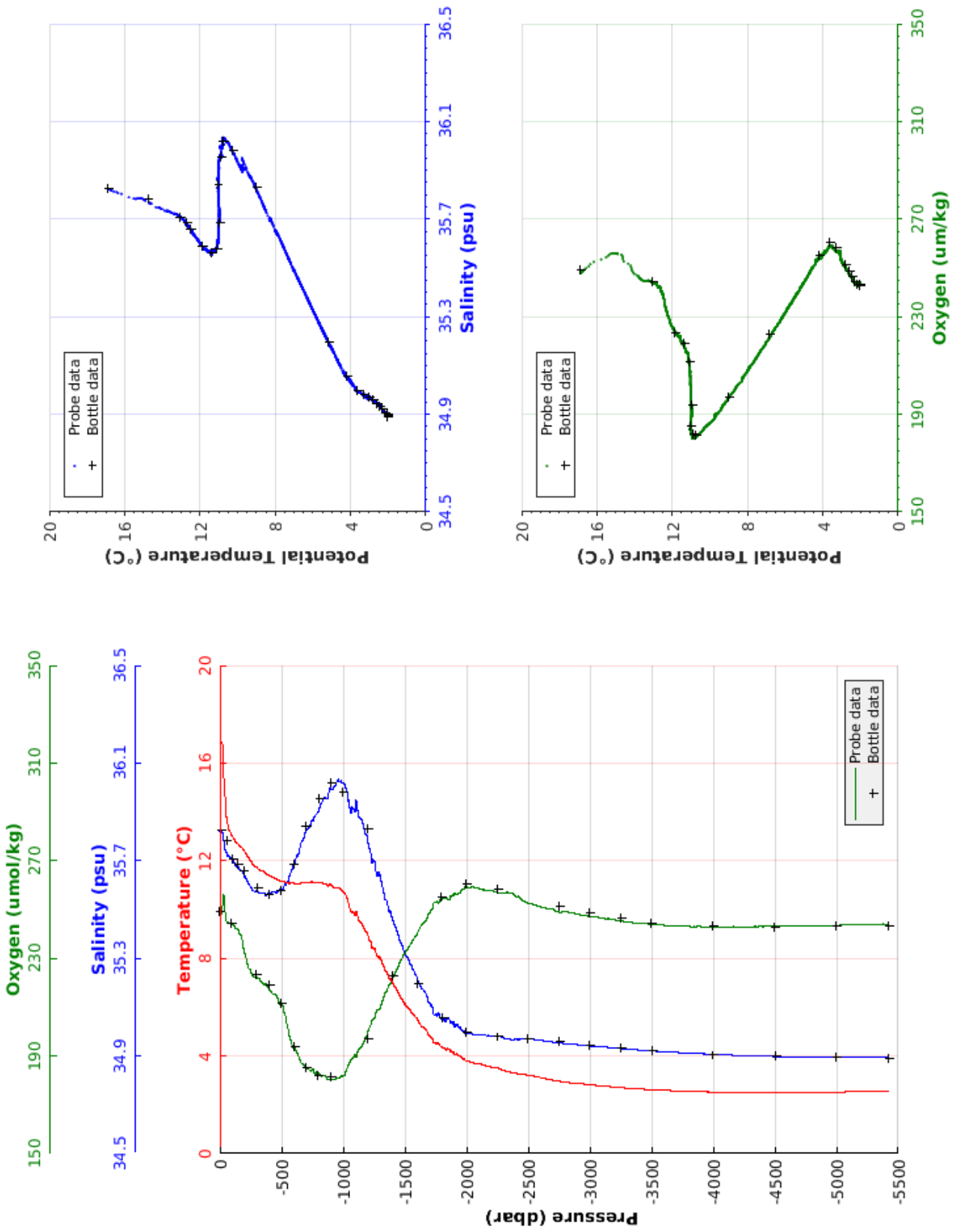
Station: 18

```

-----
| Cruise      : OVIDE 2018
| Station    : 19          Cast      : 1
| Date       : 20/06/2018   Ship     : N/O THALASSA
| Depth      : 5327 m      Organism : IFREMER
| Position   : N 41 58.96
|             W 014 40.64
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.879	35.823	248.2	16.879	3050.0	2.795	34.940	246.9	2.543
10.0	16.864	35.822	248.0	16.863	3100.0	2.776	34.938	246.6	2.519
20.0	16.795	35.822	248.3	16.791	3150.0	2.753	34.935	246.3	2.492
30.0	15.516	35.784	254.3	15.511	3200.0	2.721	34.932	245.8	2.455
40.0	14.715	35.766	255.4	14.709	3250.0	2.701	34.930	245.3	2.431
50.0	14.093	35.744	248.2	14.085	3300.0	2.679	34.928	245.0	2.404
100.0	13.001	35.705	243.7	12.987	3350.0	2.663	34.926	244.6	2.383
150.0	12.683	35.675	242.2	12.663	3400.0	2.643	34.924	244.4	2.358
200.0	12.384	35.639	233.8	12.358	3450.0	2.630	34.922	244.3	2.340
250.0	11.978	35.596	225.4	11.946	3500.0	2.614	34.921	244.0	2.319
300.0	11.726	35.578	222.4	11.687	3550.0	2.602	34.919	243.8	2.301
350.0	11.569	35.569	220.0	11.524	3600.0	2.588	34.917	243.6	2.282
400.0	11.401	35.563	217.8	11.350	3650.0	2.582	34.916	243.4	2.271
450.0	11.283	35.572	215.3	11.226	3700.0	2.568	34.915	243.2	2.252
500.0	11.167	35.583	211.3	11.103	3750.0	2.560	34.913	243.1	2.239
550.0	11.110	35.615	202.8	11.040	3800.0	2.551	34.912	243.0	2.224
600.0	11.076	35.683	193.3	11.000	3850.0	2.544	34.911	243.0	2.211
650.0	11.060	35.744	189.0	10.977	3900.0	2.536	34.909	243.0	2.198
700.0	11.121	35.820	185.6	11.031	3950.0	2.527	34.908	242.8	2.184
750.0	11.147	35.865	183.8	11.050	4000.0	2.523	34.907	242.8	2.174
800.0	11.100	35.902	183.6	10.997	4050.0	2.514	34.906	242.8	2.160
850.0	11.067	35.958	181.9	10.958	4100.0	2.509	34.905	242.9	2.149
900.0	10.991	35.995	180.4	10.875	4150.0	2.503	34.903	242.9	2.138
950.0	10.913	36.022	180.7	10.791	4200.0	2.497	34.902	242.9	2.126
1000.0	10.713	36.018	181.7	10.585	4250.0	2.493	34.901	242.9	2.116
1050.0	10.131	35.935	186.5	10.001	4300.0	2.489	34.901	243.0	2.106
1100.0	9.776	35.905	190.4	9.643	4350.0	2.486	34.899	243.0	2.097
1150.0	9.445	35.871	193.7	9.308	4400.0	2.486	34.899	243.0	2.091
1200.0	8.961	35.791	198.6	8.822	4450.0	2.485	34.898	243.1	2.085
1250.0	8.389	35.696	205.1	8.249	4500.0	2.486	34.898	243.1	2.079
1300.0	8.026	35.641	209.6	7.884	4550.0	2.489	34.897	243.1	2.076
1350.0	7.436	35.539	216.2	7.294	4600.0	2.491	34.897	243.2	2.072
1400.0	6.964	35.460	221.3	6.821	4650.0	2.493	34.897	243.2	2.068
1450.0	6.568	35.396	226.7	6.424	4700.0	2.496	34.896	243.3	2.064
1500.0	6.130	35.324	231.8	5.985	4750.0	2.498	34.896	243.2	2.060
1550.0	5.825	35.275	235.7	5.678	4800.0	2.501	34.895	243.4	2.056
1600.0	5.497	35.222	239.6	5.349	4850.0	2.505	34.895	243.4	2.054
1650.0	5.168	35.173	244.1	5.019	4900.0	2.509	34.895	243.4	2.052
1700.0	4.844	35.121	248.3	4.694	4950.0	2.514	34.895	243.4	2.051
1750.0	4.514	35.069	253.2	4.363	5000.0	2.520	34.895	243.5	2.050
1800.0	4.375	35.056	254.0	4.221	5050.0	2.525	34.895	243.6	2.048
1850.0	4.302	35.055	254.0	4.144	5100.0	2.530	34.894	243.7	2.047
1900.0	4.105	35.027	255.9	3.946	5150.0	2.536	34.894	243.7	2.046
1950.0	3.992	35.017	256.8	3.830	5200.0	2.542	34.894	243.7	2.046
2000.0	3.807	34.994	259.3	3.642	5250.0	2.548	34.894	243.7	2.045
2050.0	3.716	34.989	259.2	3.548	5300.0	2.555	34.894	243.7	2.045
2100.0	3.675	34.988	258.7	3.502	5350.0	2.561	34.894	243.7	2.045
2150.0	3.602	34.985	258.1	3.426	5400.0	2.568	34.894	243.8	2.044
2200.0	3.547	34.982	257.7	3.367	5426.0	2.571	34.894	243.8	2.044
2250.0	3.506	34.982	257.1	3.322					
2300.0	3.415	34.976	256.6	3.227					
2350.0	3.342	34.969	256.6	3.151					
2400.0	3.292	34.970	255.7	3.097					
2450.0	3.251	34.971	254.3	3.051					
2500.0	3.207	34.970	252.7	3.003					
2550.0	3.172	34.968	252.1	2.963					
2600.0	3.114	34.965	251.2	2.902					
2650.0	3.058	34.961	250.5	2.842					
2700.0	3.011	34.957	250.2	2.791					
2750.0	2.967	34.954	248.9	2.743					
2800.0	2.931	34.951	249.1	2.702					
2850.0	2.895	34.948	248.5	2.662					
2900.0	2.873	34.946	248.3	2.635					
2950.0	2.850	34.944	247.6	2.607					
3000.0	2.820	34.941	247.2	2.573					



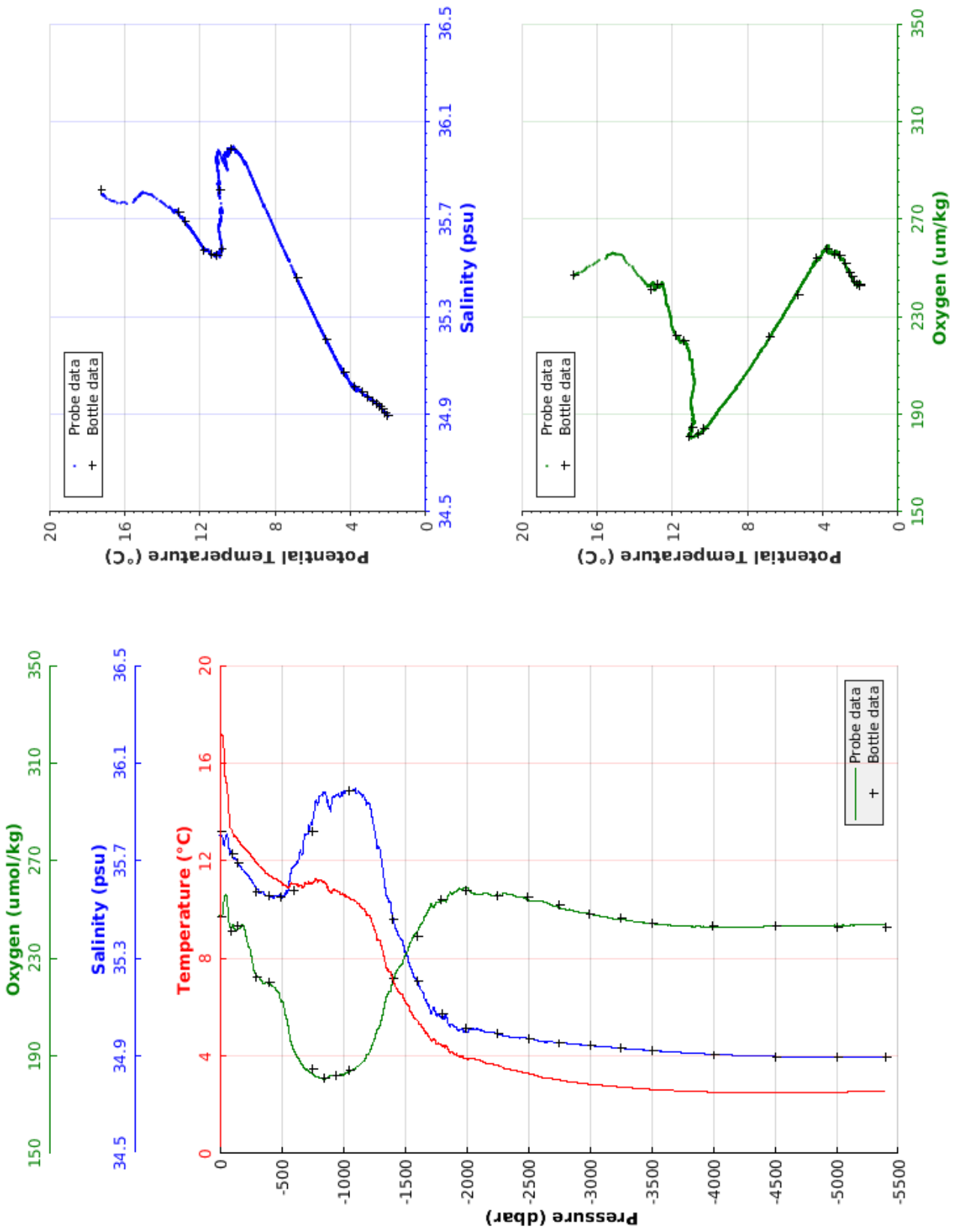
Station: 19

```

-----
| Cruise      : OVIDE 2018
| Station    : 20          Cast      : 1
| Date       : 20/06/2018   Ship       : N/O THALASSA
| Depth      : 5304 m      Organism  : IFREMER
| Position   : N 42 17.00
|             W 015 3.99
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	17.173	35.802	247.3	17.173	3050.0	2.819	34.941	247.7	2.567
10.0	17.174	35.802	247.0	17.172	3100.0	2.794	34.938	247.2	2.537
20.0	17.157	35.800	247.3	17.154	3150.0	2.773	34.937	246.8	2.512
30.0	16.694	35.773	248.8	16.689	3200.0	2.753	34.935	246.2	2.487
40.0	15.472	35.776	254.3	15.466	3250.0	2.727	34.932	246.1	2.456
50.0	15.208	35.797	256.0	15.200	3300.0	2.705	34.930	245.5	2.429
100.0	13.206	35.727	242.9	13.193	3350.0	2.686	34.928	245.2	2.405
150.0	12.825	35.690	243.2	12.804	3400.0	2.670	34.926	244.6	2.384
200.0	12.521	35.659	243.0	12.494	3450.0	2.650	34.924	244.6	2.359
250.0	12.222	35.625	233.9	12.189	3500.0	2.631	34.922	244.2	2.336
300.0	11.875	35.582	223.2	11.836	3550.0	2.616	34.920	243.8	2.315
350.0	11.656	35.574	220.3	11.611	3600.0	2.600	34.918	243.8	2.295
400.0	11.403	35.555	219.8	11.352	3650.0	2.588	34.917	243.6	2.277
450.0	11.277	35.558	217.9	11.220	3700.0	2.573	34.915	243.3	2.257
500.0	11.123	35.563	212.7	11.060	3750.0	2.565	34.914	243.3	2.243
550.0	10.911	35.569	204.8	10.842	3800.0	2.552	34.912	243.1	2.225
600.0	11.056	35.674	192.7	10.980	3850.0	2.542	34.910	242.9	2.209
650.0	10.993	35.730	188.0	10.911	3900.0	2.536	34.909	243.0	2.198
700.0	11.076	35.806	184.5	10.986	3950.0	2.528	34.908	243.0	2.185
750.0	11.037	35.845	183.1	10.941	4000.0	2.522	34.907	242.9	2.173
800.0	11.155	35.940	181.4	11.051	4050.0	2.516	34.906	242.9	2.162
850.0	11.103	35.977	180.5	10.994	4100.0	2.507	34.904	242.9	2.147
900.0	10.665	35.904	182.0	10.552	4150.0	2.501	34.903	242.9	2.136
950.0	10.791	35.970	181.9	10.670	4200.0	2.496	34.902	242.9	2.125
1000.0	10.583	35.965	182.4	10.457	4250.0	2.492	34.901	242.9	2.115
1050.0	10.487	35.991	183.4	10.355	4300.0	2.488	34.900	242.8	2.105
1100.0	10.359	35.995	184.7	10.221	4350.0	2.486	34.900	242.9	2.097
1150.0	10.097	35.971	186.9	9.954	4400.0	2.485	34.899	242.9	2.091
1200.0	9.788	35.937	190.5	9.642	4450.0	2.486	34.898	243.2	2.085
1250.0	9.254	35.845	195.8	9.106	4500.0	2.487	34.898	243.1	2.080
1300.0	8.708	35.751	201.8	8.559	4550.0	2.487	34.897	243.2	2.074
1350.0	7.637	35.565	213.3	7.493	4600.0	2.490	34.897	243.2	2.071
1400.0	7.134	35.479	219.4	6.990	4650.0	2.490	34.896	243.2	2.065
1450.0	6.641	35.396	225.7	6.496	4700.0	2.493	34.896	243.3	2.062
1500.0	6.253	35.332	230.4	6.107	4750.0	2.495	34.896	243.3	2.058
1550.0	5.811	35.262	236.2	5.664	4800.0	2.499	34.895	243.4	2.055
1600.0	5.456	35.209	240.6	5.309	4850.0	2.503	34.895	243.5	2.052
1650.0	5.128	35.157	245.0	4.980	4900.0	2.506	34.895	243.5	2.049
1700.0	4.788	35.104	249.7	4.639	4950.0	2.511	34.894	243.4	2.048
1750.0	4.560	35.076	251.9	4.409	5000.0	2.517	34.894	243.5	2.047
1800.0	4.421	35.056	253.7	4.267	5050.0	2.522	34.894	243.6	2.046
1850.0	4.282	35.043	254.6	4.125	5100.0	2.528	34.894	243.5	2.045
1900.0	4.103	35.020	257.0	3.944	5150.0	2.533	34.894	243.6	2.044
1950.0	3.973	35.007	258.5	3.811	5200.0	2.539	34.894	243.7	2.043
2000.0	3.879	34.999	258.8	3.713	5250.0	2.545	34.894	243.9	2.042
2050.0	3.891	35.011	256.6	3.720	5300.0	2.552	34.894	243.7	2.042
2100.0	3.830	35.009	256.2	3.655	5350.0	2.559	34.894	243.8	2.042
2150.0	3.727	35.000	256.5	3.549	5400.0	2.565	34.894	243.9	2.042
2200.0	3.671	34.998	256.0	3.489	5404.0	2.566	34.894	243.8	2.042
2250.0	3.616	34.993	255.9	3.429					
2300.0	3.502	34.980	256.6	3.313					
2350.0	3.447	34.978	256.3	3.253					
2400.0	3.399	34.977	255.5	3.201					
2450.0	3.334	34.973	255.0	3.133					
2500.0	3.282	34.972	253.9	3.077					
2550.0	3.230	34.968	253.3	3.021					
2600.0	3.132	34.960	253.4	2.920					
2650.0	3.092	34.957	252.8	2.875					
2700.0	3.062	34.957	251.6	2.841					
2750.0	3.020	34.956	250.8	2.794					
2800.0	2.970	34.953	250.0	2.741					
2850.0	2.935	34.950	249.9	2.701					
2900.0	2.904	34.947	249.1	2.666					
2950.0	2.868	34.944	248.5	2.625					
3000.0	2.845	34.943	248.1	2.598					



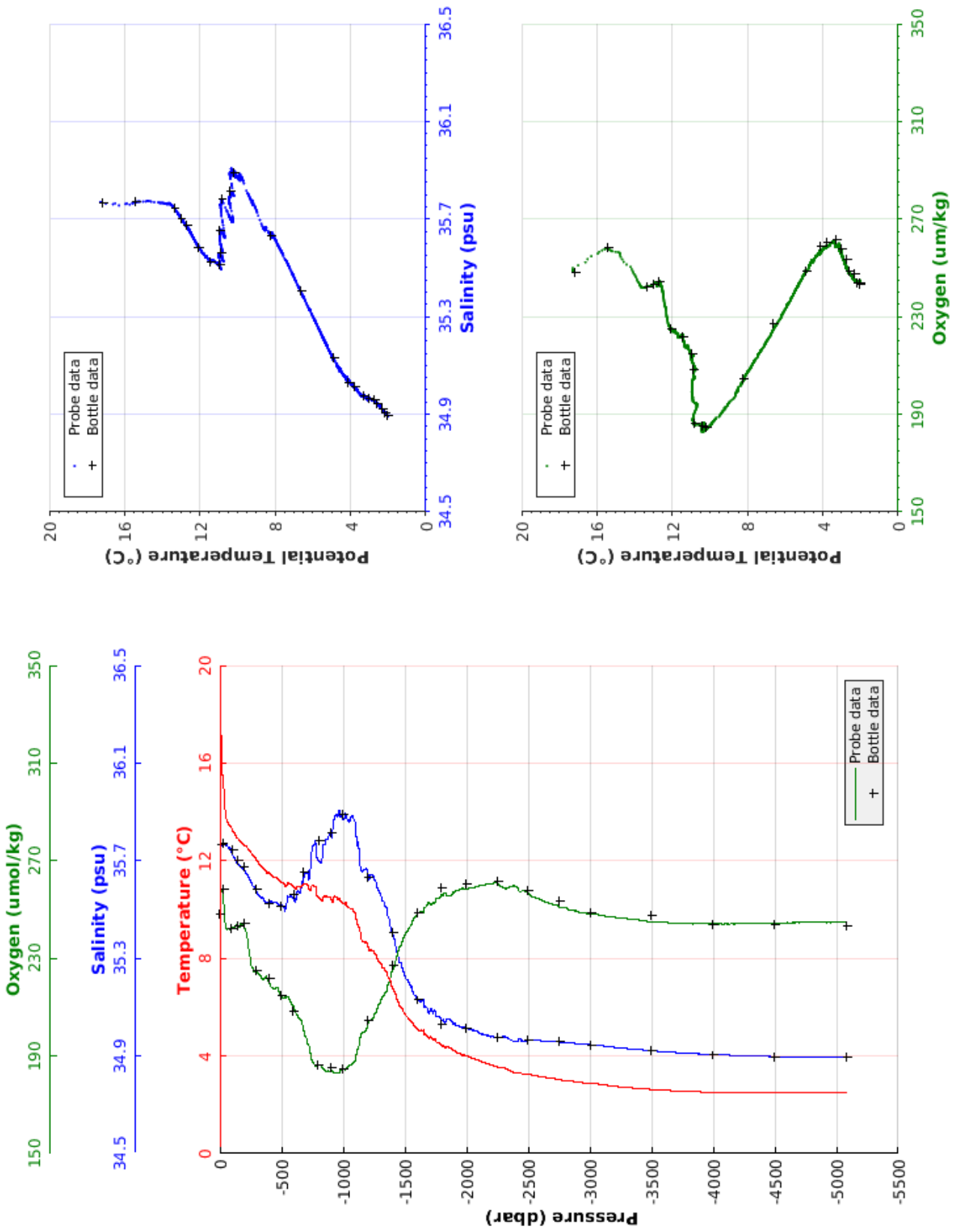
Station: 20


```

-----
| Cruise      : OVIDE 2018
| Station    : 21          Cast      : 1
| Date       : 21/06/2018   Ship     : N/O THALASSA
| Depth      : 4997 m      Organism : IFREMER
| Position   : N 42 34.87
|             W 015 27.97
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	17.294	35.768	248.8	17.294	3050.0	2.859	34.945	248.1	2.606
10.0	17.284	35.767	249.9	17.283	3100.0	2.830	34.942	247.6	2.573
20.0	15.547	35.767	257.9	15.544	3150.0	2.787	34.938	247.1	2.525
30.0	15.199	35.772	256.8	15.194	3200.0	2.754	34.935	246.8	2.488
40.0	14.222	35.768	250.4	14.216	3250.0	2.733	34.933	246.6	2.462
50.0	13.785	35.763	243.9	13.778	3300.0	2.709	34.930	246.3	2.433
100.0	13.276	35.734	242.4	13.262	3350.0	2.688	34.928	245.9	2.407
150.0	12.899	35.689	243.7	12.879	3400.0	2.668	34.926	245.7	2.382
200.0	12.645	35.661	243.7	12.618	3450.0	2.647	34.924	245.2	2.356
250.0	12.343	35.617	230.7	12.309	3500.0	2.625	34.921	244.9	2.329
300.0	12.015	35.576	223.9	11.976	3550.0	2.605	34.919	244.8	2.305
350.0	11.712	35.547	221.5	11.666	3600.0	2.595	34.918	244.8	2.290
400.0	11.481	35.529	220.7	11.429	3650.0	2.582	34.916	244.5	2.271
450.0	11.322	35.528	217.7	11.265	3700.0	2.565	34.914	244.4	2.249
500.0	11.108	35.515	214.9	11.045	3750.0	2.553	34.912	244.3	2.231
550.0	11.091	35.552	214.2	11.021	3800.0	2.540	34.911	244.2	2.214
600.0	10.949	35.547	210.5	10.874	3850.0	2.537	34.910	244.2	2.205
650.0	10.914	35.570	205.4	10.832	3900.0	2.525	34.908	244.1	2.188
700.0	11.036	35.647	198.1	10.947	3950.0	2.519	34.907	244.1	2.176
750.0	10.993	35.744	188.3	10.897	4000.0	2.515	34.906	244.1	2.166
800.0	10.484	35.701	186.3	10.385	4050.0	2.510	34.905	244.1	2.155
850.0	10.538	35.765	184.6	10.432	4100.0	2.505	34.904	244.1	2.145
900.0	10.462	35.807	183.6	10.350	4150.0	2.499	34.903	244.1	2.133
950.0	10.483	35.886	182.9	10.364	4200.0	2.496	34.902	244.2	2.125
1000.0	10.237	35.874	184.7	10.114	4250.0	2.488	34.901	244.2	2.111
1050.0	10.075	35.868	185.7	9.946	4300.0	2.489	34.900	244.3	2.106
1100.0	9.854	35.858	187.9	9.720	4350.0	2.484	34.899	244.2	2.095
1150.0	8.750	35.662	198.8	8.620	4400.0	2.484	34.899	244.2	2.089
1200.0	8.461	35.642	202.4	8.327	4450.0	2.482	34.898	244.5	2.082
1250.0	8.276	35.638	205.7	8.138	4500.0	2.483	34.897	244.5	2.077
1300.0	7.796	35.565	211.5	7.656	4550.0	2.482	34.897	244.5	2.069
1350.0	7.454	35.512	216.0	7.311	4600.0	2.484	34.896	244.6	2.065
1400.0	6.781	35.402	224.5	6.640	4650.0	2.487	34.896	244.6	2.061
1450.0	6.161	35.304	232.8	6.021	4700.0	2.492	34.896	244.6	2.060
1500.0	5.725	35.233	239.1	5.585	4750.0	2.493	34.895	244.7	2.055
1550.0	5.415	35.184	243.3	5.273	4800.0	2.496	34.895	244.8	2.052
1600.0	5.107	35.133	247.7	4.964	4850.0	2.499	34.894	244.7	2.048
1650.0	5.059	35.132	248.6	4.912	4900.0	2.504	34.894	244.7	2.047
1700.0	4.730	35.080	253.1	4.581	4950.0	2.510	34.894	244.7	2.047
1750.0	4.619	35.073	253.0	4.468	5000.0	2.517	34.894	244.8	2.047
1800.0	4.410	35.046	255.7	4.256	5050.0	2.523	34.894	244.8	2.047
1850.0	4.366	35.052	255.4	4.208	5084.0	2.527	34.894	244.8	2.046
1900.0	4.221	35.034	257.2	4.060					
1950.0	4.087	35.020	258.2	3.923					
2000.0	3.995	35.014	258.3	3.828					
2050.0	3.904	35.006	258.9	3.733					
2100.0	3.802	34.996	259.4	3.628					
2150.0	3.712	34.987	260.1	3.534					
2200.0	3.631	34.980	260.7	3.450					
2250.0	3.545	34.975	260.7	3.360					
2300.0	3.510	34.979	259.0	3.321					
2350.0	3.402	34.969	259.1	3.209					
2400.0	3.313	34.960	259.6	3.118					
2450.0	3.272	34.963	257.5	3.072					
2500.0	3.249	34.964	256.8	3.044					
2550.0	3.203	34.965	255.1	2.994					
2600.0	3.149	34.962	254.0	2.937					
2650.0	3.111	34.961	253.1	2.894					
2700.0	3.084	34.960	252.1	2.862					
2750.0	3.037	34.958	251.3	2.811					
2800.0	2.999	34.955	250.6	2.769					
2850.0	2.966	34.953	249.6	2.731					
2900.0	2.932	34.950	249.3	2.693					
2950.0	2.901	34.948	248.6	2.658					
3000.0	2.886	34.947	248.3	2.638					



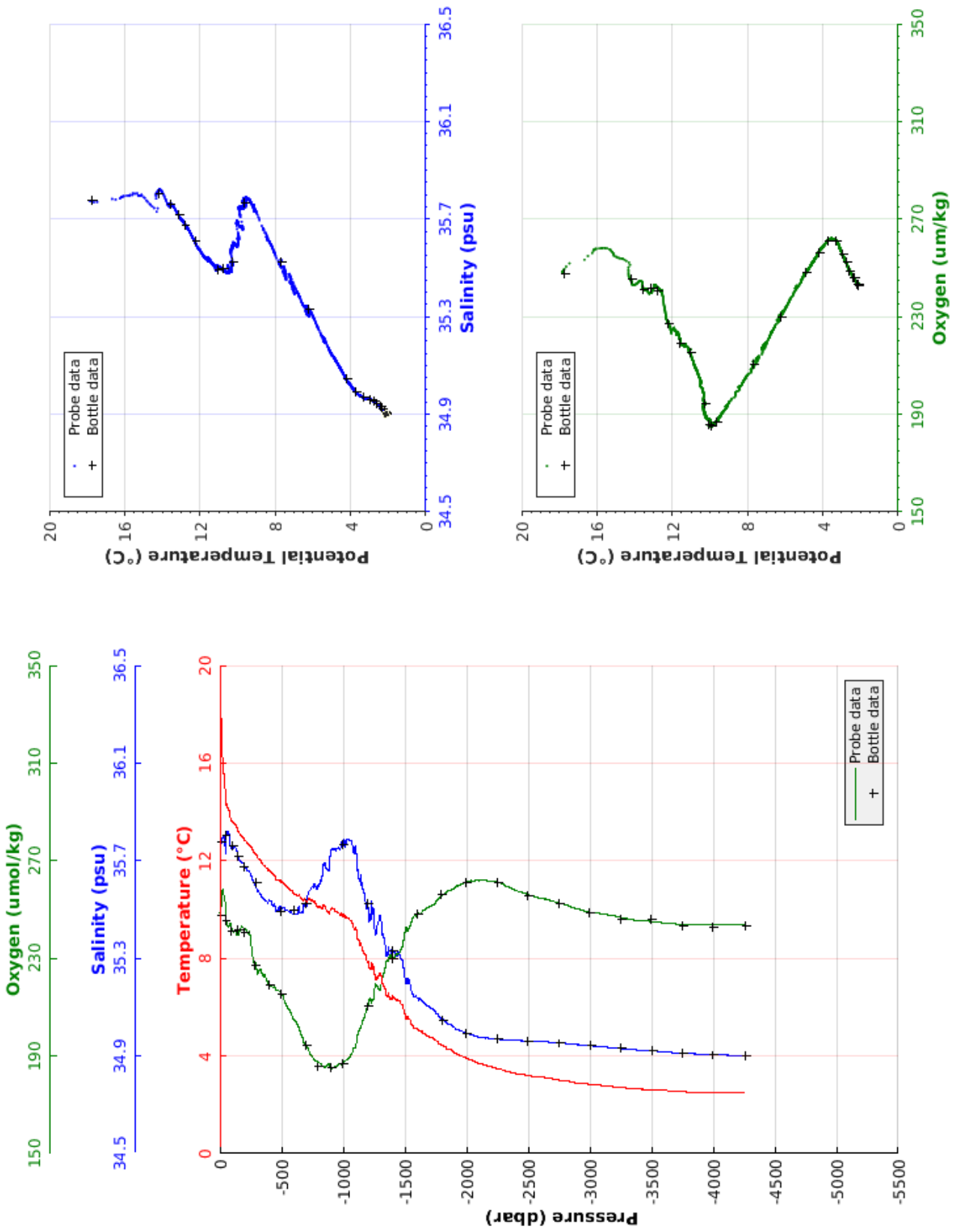
Station: 21

```

-----
| Cruise      : OVIDE 2018
| Station    : 22          Cast      : 1
| Date       : 21/06/2018   Ship       : N/O THALASSA
| Depth      : 4199 m       Organism  : IFREMER
| Position   : N 42 52.86
|             W 015 51.16
|-----
  
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	17.802	35.776	248.6	17.802	3050.0	2.811	34.940	248.7	2.560
10.0	17.804	35.776	248.3	17.802	3100.0	2.792	34.938	248.3	2.535
20.0	16.483	35.780	254.9	16.480	3150.0	2.757	34.935	247.8	2.496
30.0	15.707	35.798	258.2	15.703	3200.0	2.729	34.933	247.4	2.464
40.0	15.111	35.799	255.3	15.105	3250.0	2.705	34.930	246.8	2.434
50.0	14.310	35.730	252.2	14.303	3300.0	2.681	34.928	246.3	2.406
100.0	13.605	35.761	242.6	13.591	3350.0	2.657	34.926	245.9	2.377
150.0	13.198	35.723	239.8	13.177	3400.0	2.647	34.924	245.7	2.361
200.0	12.869	35.682	242.3	12.841	3450.0	2.633	34.923	245.3	2.343
250.0	12.576	35.648	239.6	12.542	3500.0	2.620	34.921	245.1	2.324
300.0	12.214	35.592	226.7	12.174	3550.0	2.606	34.919	244.9	2.305
350.0	11.838	35.548	223.5	11.792	3600.0	2.586	34.917	244.6	2.281
400.0	11.617	35.538	219.4	11.565	3650.0	2.567	34.915	244.3	2.257
450.0	11.340	35.512	218.7	11.283	3700.0	2.550	34.913	244.0	2.234
500.0	11.161	35.512	216.0	11.098	3750.0	2.533	34.911	243.9	2.212
550.0	10.914	35.497	210.6	10.845	3800.0	2.524	34.909	243.7	2.198
600.0	10.651	35.481	205.3	10.577	3850.0	2.521	34.909	243.8	2.189
650.0	10.516	35.495	200.8	10.436	3900.0	2.511	34.907	243.8	2.174
700.0	10.361	35.519	194.5	10.276	3950.0	2.504	34.906	243.8	2.162
750.0	10.369	35.593	189.9	10.277	4000.0	2.502	34.905	243.8	2.153
800.0	10.104	35.597	187.5	10.007	4050.0	2.501	34.904	243.8	2.147
850.0	10.117	35.691	185.5	10.013	4100.0	2.497	34.903	243.7	2.137
900.0	10.002	35.727	185.4	9.893	4150.0	2.494	34.903	243.7	2.129
950.0	9.905	35.751	186.0	9.790	4200.0	2.495	34.902	243.7	2.123
1000.0	9.696	35.753	187.6	9.577	4250.0	2.497	34.902	243.7	2.119
1050.0	9.597	35.786	189.0	9.472	4264.0	2.497	34.901	243.6	2.118
1100.0	9.290	35.758	193.1	9.161					
1150.0	8.449	35.606	201.9	8.321					
1200.0	7.850	35.512	209.6	7.721					
1250.0	7.644	35.499	212.9	7.511					
1300.0	7.379	35.474	216.9	7.243					
1350.0	6.545	35.323	227.4	6.412					
1400.0	6.487	35.343	229.3	6.349					
1450.0	6.273	35.323	231.8	6.132					
1500.0	5.704	35.226	239.2	5.565					
1550.0	5.318	35.171	244.0	5.178					
1600.0	5.088	35.138	247.6	4.945					
1650.0	4.913	35.119	249.5	4.768					
1700.0	4.778	35.100	251.1	4.630					
1750.0	4.653	35.083	252.6	4.501					
1800.0	4.440	35.053	255.5	4.285					
1850.0	4.284	35.032	257.5	4.127					
1900.0	4.157	35.020	258.6	3.997					
1950.0	4.019	35.004	260.1	3.856					
2000.0	3.913	34.993	261.1	3.747					
2050.0	3.817	34.985	261.8	3.647					
2100.0	3.690	34.978	262.1	3.517					
2150.0	3.624	34.974	261.8	3.447					
2200.0	3.564	34.972	261.6	3.384					
2250.0	3.479	34.968	261.2	3.295					
2300.0	3.396	34.966	260.3	3.209					
2350.0	3.338	34.964	259.2	3.146					
2400.0	3.274	34.963	257.9	3.079					
2450.0	3.236	34.962	257.0	3.037					
2500.0	3.200	34.962	256.3	2.996					
2550.0	3.165	34.960	255.4	2.957					
2600.0	3.138	34.959	254.8	2.926					
2650.0	3.108	34.958	254.1	2.891					
2700.0	3.061	34.955	253.5	2.840					
2750.0	3.014	34.953	252.8	2.788					
2800.0	2.991	34.952	252.2	2.761					
2850.0	2.934	34.949	251.1	2.700					
2900.0	2.898	34.946	250.4	2.660					
2950.0	2.872	34.945	249.7	2.629					
3000.0	2.841	34.942	249.0	2.594					





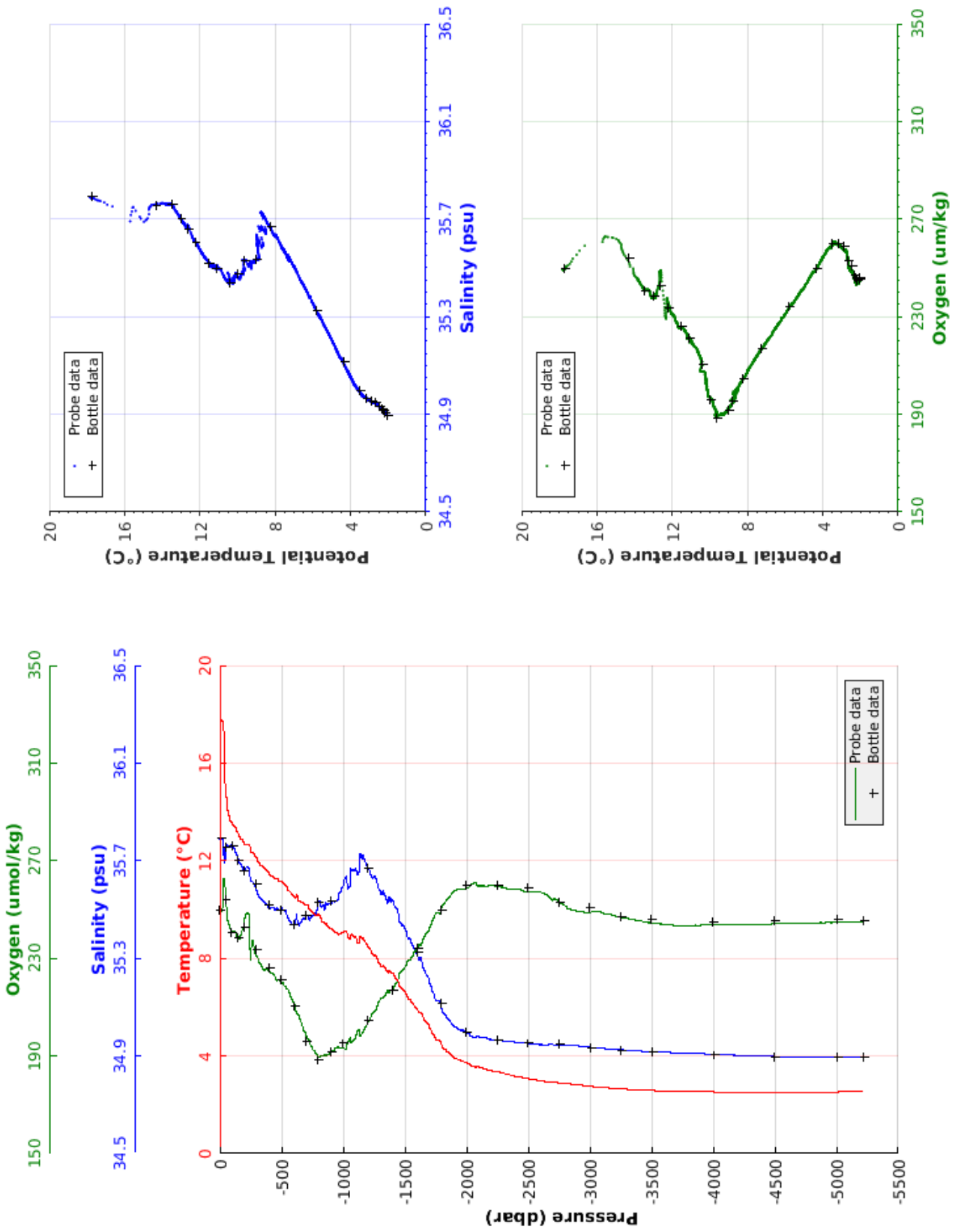
Station: 22

```

-----
| Cruise      : OVIDE 2018
| Station    : 23          Cast      : 1
| Date       : 21/06/2018   Ship       : N/O THALASSA
| Depth      : 5123 m       Organism  : IPREMER
| Position   : N 43 10.92
|             W 016 14.88
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	17.797	35.789	249.2	17.797	3050.0	2.728	34.933	249.1	2.478
10.0	17.779	35.789	249.2	17.778	3100.0	2.707	34.931	248.8	2.452
20.0	17.748	35.788	249.5	17.745	3150.0	2.688	34.929	248.1	2.428
30.0	17.448	35.777	251.7	17.443	3200.0	2.666	34.927	247.5	2.401
40.0	15.548	35.749	262.8	15.542	3250.0	2.646	34.925	246.8	2.377
50.0	14.709	35.744	258.2	14.701	3300.0	2.635	34.923	246.4	2.361
100.0	13.521	35.757	241.7	13.507	3350.0	2.621	34.922	245.9	2.342
150.0	13.092	35.709	237.5	13.071	3400.0	2.608	34.920	245.5	2.324
200.0	12.692	35.662	243.9	12.664	3450.0	2.595	34.919	244.9	2.305
250.0	12.441	35.628	234.0	12.407	3500.0	2.582	34.917	244.4	2.288
300.0	12.082	35.579	231.0	12.043	3550.0	2.576	34.916	244.2	2.277
350.0	11.754	35.538	226.4	11.708	3600.0	2.572	34.915	243.9	2.267
400.0	11.449	35.506	225.0	11.398	3650.0	2.566	34.914	243.7	2.256
450.0	11.265	35.501	223.0	11.208	3700.0	2.559	34.913	243.5	2.243
500.0	11.132	35.505	220.0	11.069	3750.0	2.553	34.912	243.3	2.232
550.0	10.801	35.466	217.4	10.733	3800.0	2.549	34.911	243.2	2.223
600.0	10.527	35.438	212.1	10.454	3850.0	2.544	34.910	243.4	2.211
650.0	10.308	35.440	205.6	10.229	3900.0	2.536	34.909	243.5	2.198
700.0	10.192	35.464	199.3	10.107	3950.0	2.528	34.908	243.7	2.185
750.0	9.896	35.474	193.7	9.807	4000.0	2.528	34.907	243.7	2.179
800.0	9.802	35.533	189.5	9.707	4050.0	2.521	34.906	243.7	2.167
850.0	9.433	35.509	190.1	9.334	4100.0	2.512	34.905	243.6	2.152
900.0	9.203	35.523	191.4	9.099	4150.0	2.508	34.904	243.7	2.142
950.0	9.022	35.534	193.3	8.913	4200.0	2.503	34.903	243.8	2.132
1000.0	9.064	35.595	193.1	8.949	4250.0	2.499	34.902	243.9	2.121
1050.0	8.796	35.591	196.3	8.677	4300.0	2.496	34.901	243.8	2.113
1100.0	8.876	35.669	196.9	8.750	4350.0	2.490	34.900	243.8	2.101
1150.0	8.836	35.717	198.6	8.705	4400.0	2.488	34.899	244.0	2.093
1200.0	8.484	35.674	203.2	8.350	4450.0	2.487	34.898	244.0	2.087
1250.0	8.130	35.632	208.0	7.993	4500.0	2.487	34.898	244.1	2.081
1300.0	7.760	35.580	212.6	7.620	4550.0	2.489	34.897	244.2	2.076
1350.0	7.495	35.542	215.5	7.352	4600.0	2.493	34.897	244.2	2.074
1400.0	7.394	35.541	216.9	7.247	4650.0	2.497	34.897	244.3	2.072
1450.0	7.005	35.483	221.2	6.856	4700.0	2.501	34.896	244.3	2.069
1500.0	6.616	35.424	225.8	6.466	4750.0	2.503	34.896	244.4	2.065
1550.0	6.287	35.376	229.7	6.135	4800.0	2.507	34.896	244.5	2.062
1600.0	5.898	35.314	234.2	5.745	4850.0	2.509	34.896	244.6	2.058
1650.0	5.570	35.266	237.5	5.416	4900.0	2.513	34.895	244.6	2.056
1700.0	5.162	35.205	241.8	5.008	4950.0	2.518	34.895	244.7	2.055
1750.0	4.706	35.132	247.9	4.553	5000.0	2.525	34.895	244.8	2.055
1800.0	4.435	35.094	250.5	4.281	5050.0	2.531	34.895	244.8	2.055
1850.0	4.159	35.054	254.4	4.004	5100.0	2.538	34.895	244.9	2.054
1900.0	3.935	35.020	257.4	3.778	5150.0	2.544	34.895	245.1	2.054
1950.0	3.826	35.009	258.3	3.666	5200.0	2.550	34.895	245.1	2.054
2000.0	3.729	34.999	258.5	3.565	5215.0	2.552	34.895	245.0	2.054
2050.0	3.578	34.979	260.6	3.412					
2100.0	3.548	34.980	259.5	3.377					
2150.0	3.476	34.974	259.7	3.302					
2200.0	3.394	34.967	259.8	3.216					
2250.0	3.360	34.966	259.4	3.178					
2300.0	3.292	34.962	259.1	3.107					
2350.0	3.227	34.960	258.5	3.038					
2400.0	3.167	34.955	258.5	2.974					
2450.0	3.119	34.953	258.0	2.922					
2500.0	3.081	34.953	257.2	2.880					
2550.0	3.020	34.948	257.5	2.814					
2600.0	2.981	34.946	257.2	2.772					
2650.0	2.945	34.946	256.0	2.732					
2700.0	2.937	34.947	253.8	2.718					
2750.0	2.899	34.945	253.4	2.676					
2800.0	2.883	34.945	251.7	2.656					
2850.0	2.849	34.943	249.9	2.617					
2900.0	2.823	34.941	249.4	2.586					
2950.0	2.795	34.939	249.0	2.554					
3000.0	2.759	34.936	248.6	2.514					



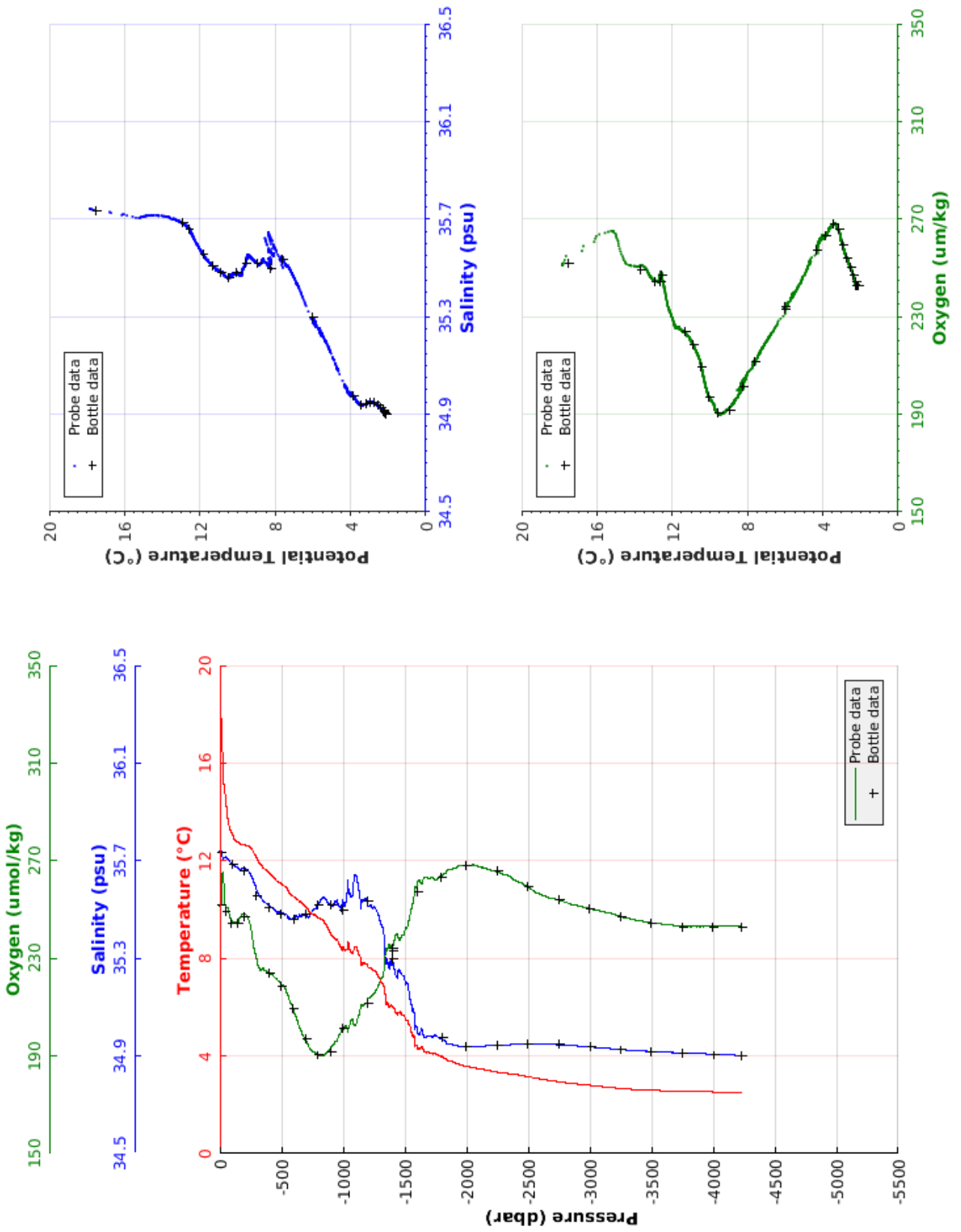
Station: 23

```

-----
| Cruise      : OVIDE 2018
| Station    : 24          Cast      : 1
| Date       : 21/06/2018   Ship       : N/O THALASSA
| Depth      : 4172 m      Organism  : IFREMER
| Position   : N 43 28.80
|             W 016 38.11
-----
    
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	17.819	35.741	251.4	17.819	3050.0	2.767	34.935	249.7	2.516
10.0	17.821	35.741	251.3	17.819	3100.0	2.745	34.933	249.2	2.489
20.0	16.797	35.729	256.9	16.793	3150.0	2.718	34.931	248.6	2.458
30.0	15.158	35.706	265.1	15.153	3200.0	2.692	34.929	248.0	2.427
40.0	14.855	35.713	259.0	14.849	3250.0	2.668	34.927	247.1	2.399
50.0	14.328	35.716	251.3	14.320	3300.0	2.649	34.924	246.6	2.374
100.0	13.128	35.691	245.7	13.114	3350.0	2.631	34.922	245.9	2.352
150.0	12.734	35.670	244.2	12.713	3400.0	2.616	34.921	245.4	2.332
200.0	12.659	35.671	248.4	12.632	3450.0	2.604	34.920	245.0	2.314
250.0	12.526	35.648	244.2	12.492	3500.0	2.593	34.918	244.6	2.299
300.0	12.086	35.582	230.3	12.047	3550.0	2.585	34.917	244.3	2.285
350.0	11.718	35.536	225.7	11.672	3600.0	2.574	34.916	243.9	2.269
400.0	11.509	35.520	224.2	11.457	3650.0	2.568	34.915	243.7	2.257
450.0	11.252	35.500	222.2	11.195	3700.0	2.559	34.913	243.5	2.244
500.0	11.059	35.490	219.7	10.996	3750.0	2.554	34.912	243.2	2.233
550.0	10.816	35.473	215.9	10.747	3800.0	2.549	34.911	243.0	2.222
600.0	10.521	35.462	209.5	10.447	3850.0	2.544	34.911	243.1	2.212
650.0	10.337	35.480	201.8	10.258	3900.0	2.537	34.909	243.0	2.199
700.0	10.102	35.482	196.3	10.018	3950.0	2.532	34.908	243.1	2.189
750.0	9.827	35.490	192.1	9.738	4000.0	2.526	34.907	243.1	2.177
800.0	9.654	35.522	190.4	9.560	4050.0	2.519	34.906	243.1	2.165
850.0	9.436	35.545	190.4	9.337	4100.0	2.514	34.905	243.2	2.154
900.0	8.993	35.515	193.2	8.890	4150.0	2.509	34.904	243.2	2.144
950.0	8.775	35.536	195.8	8.668	4200.0	2.502	34.903	243.1	2.131
1000.0	8.454	35.537	200.5	8.344	4237.0	2.499	34.902	243.0	2.123
1050.0	8.419	35.572	201.6	8.303					
1100.0	8.486	35.643	202.4	8.364					
1150.0	7.760	35.515	210.8	7.638					
1200.0	7.743	35.540	212.1	7.615					
1250.0	7.504	35.511	215.2	7.372					
1300.0	7.117	35.456	220.0	6.984					
1350.0	6.123	35.276	233.4	5.994					
1400.0	5.985	35.272	235.6	5.852					
1450.0	5.783	35.245	238.5	5.647					
1500.0	5.580	35.216	240.3	5.442					
1550.0	5.033	35.123	248.7	4.896					
1600.0	4.408	35.013	259.4	4.274					
1650.0	4.244	34.989	261.9	4.107					
1700.0	4.139	34.983	262.7	3.999					
1750.0	4.097	34.984	262.0	3.952					
1800.0	3.980	34.973	263.4	3.832					
1850.0	3.802	34.949	266.2	3.652					
1900.0	3.736	34.945	266.8	3.582					
1950.0	3.643	34.939	267.8	3.485					
2000.0	3.579	34.938	268.0	3.418					
2050.0	3.517	34.936	268.2	3.352					
2100.0	3.475	34.939	267.6	3.306					
2150.0	3.434	34.941	266.8	3.260					
2200.0	3.379	34.942	266.1	3.202					
2250.0	3.329	34.943	265.4	3.148					
2300.0	3.306	34.945	264.3	3.120					
2350.0	3.264	34.946	263.7	3.074					
2400.0	3.241	34.949	262.0	3.046					
2450.0	3.185	34.948	260.8	2.987					
2500.0	3.147	34.950	259.2	2.944					
2550.0	3.099	34.951	257.4	2.892					
2600.0	3.058	34.951	256.2	2.847					
2650.0	3.019	34.949	255.3	2.804					
2700.0	2.969	34.947	254.6	2.750					
2750.0	2.938	34.946	253.8	2.714					
2800.0	2.903	34.944	252.9	2.675					
2850.0	2.877	34.943	252.2	2.644					
2900.0	2.848	34.941	251.6	2.610					
2950.0	2.827	34.940	251.0	2.585					
3000.0	2.797	34.937	250.4	2.550					





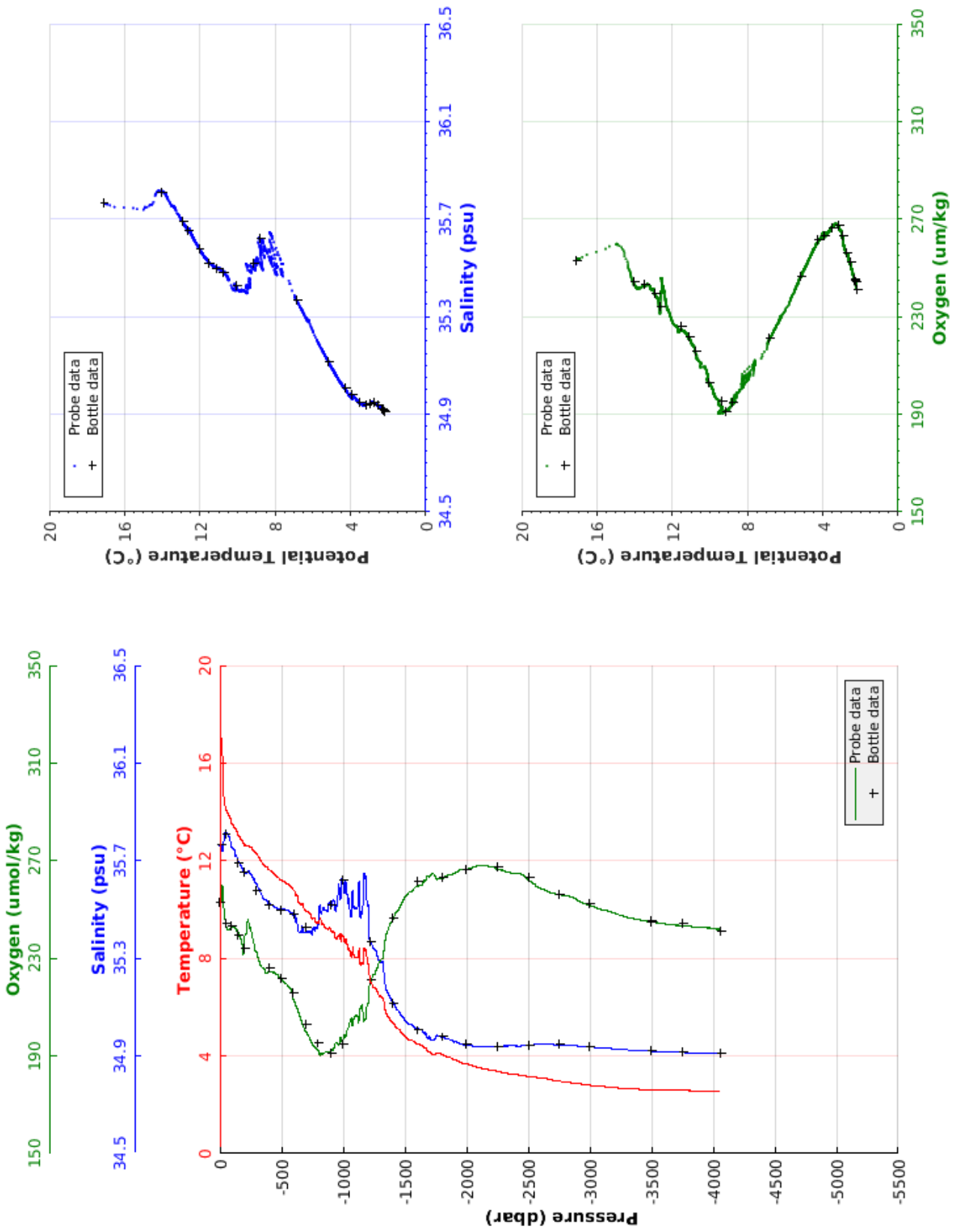
Station: 24


```

-----
| Cruise      : OVIDE 2018
| Station    : 25          Cast      : 1
| Date       : 22/06/2018   Ship       : N/O THALASSA
| Depth      : 4004 m      Organism  : IFREMER
| Position   : N 43 46.79
|             W 017 1.83
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.998	35.763	253.8	16.998	3050.0	2.770	34.935	250.8	2.519
10.0	17.001	35.763	253.8	16.999	3100.0	2.750	34.933	250.0	2.494
20.0	16.776	35.756	254.4	16.773	3150.0	2.730	34.932	249.3	2.470
30.0	14.692	35.755	258.4	14.688	3200.0	2.704	34.929	248.5	2.439
40.0	14.315	35.808	249.5	14.309	3250.0	2.682	34.927	247.6	2.412
50.0	14.146	35.814	245.1	14.139	3300.0	2.660	34.925	246.9	2.385
100.0	13.478	35.753	242.9	13.464	3350.0	2.646	34.923	246.3	2.366
150.0	13.043	35.701	241.5	13.022	3400.0	2.636	34.922	245.8	2.351
200.0	12.634	35.647	233.8	12.607	3450.0	2.619	34.920	245.3	2.329
250.0	12.543	35.646	242.2	12.509	3500.0	2.610	34.919	244.9	2.315
300.0	12.273	35.604	232.7	12.232	3550.0	2.606	34.918	244.6	2.306
350.0	11.858	35.550	226.2	11.812	3600.0	2.598	34.917	244.1	2.292
400.0	11.633	35.526	224.6	11.581	3650.0	2.592	34.916	243.8	2.281
450.0	11.406	35.509	223.9	11.349	3700.0	2.589	34.916	243.6	2.272
500.0	11.201	35.504	221.5	11.137	3750.0	2.584	34.915	243.3	2.262
550.0	11.048	35.497	219.2	10.979	3800.0	2.581	34.914	243.1	2.253
600.0	10.794	35.486	213.4	10.719	3850.0	2.579	34.913	242.9	2.245
650.0	10.224	35.408	206.7	10.145	3900.0	2.579	34.913	242.8	2.240
700.0	9.933	35.405	200.2	9.849	3950.0	2.578	34.912	242.5	2.234
750.0	9.597	35.396	195.6	9.509	4000.0	2.577	34.911	242.1	2.226
800.0	9.416	35.434	192.5	9.323	4050.0	2.577	34.911	241.9	2.221
850.0	9.300	35.502	191.1	9.202	4062.0	2.579	34.911	241.9	2.221
900.0	9.112	35.512	191.9	9.008					
950.0	8.814	35.517	195.4	8.707					
1000.0	8.891	35.612	196.2	8.777					
1050.0	8.315	35.518	202.0	8.200					
1100.0	8.045	35.504	206.0	7.926					
1150.0	7.808	35.490	210.4	7.685					
1200.0	7.750	35.516	211.3	7.623					
1250.0	6.804	35.340	223.2	6.679					
1300.0	6.421	35.283	228.8	6.295					
1350.0	5.755	35.180	238.6	5.630					
1400.0	5.389	35.126	245.1	5.263					
1450.0	5.095	35.086	249.8	4.967					
1500.0	4.799	35.046	254.6	4.669					
1550.0	4.649	35.027	257.3	4.517					
1600.0	4.509	35.011	259.3	4.373					
1650.0	4.388	34.999	260.7	4.249					
1700.0	4.189	34.980	263.3	4.048					
1750.0	4.091	34.972	263.8	3.947					
1800.0	4.062	34.978	262.7	3.913					
1850.0	3.958	34.970	263.7	3.805					
1900.0	3.844	34.959	264.9	3.688					
1950.0	3.738	34.949	266.2	3.579					
2000.0	3.675	34.947	266.6	3.512					
2050.0	3.598	34.942	267.1	3.431					
2100.0	3.526	34.938	267.9	3.356					
2150.0	3.468	34.937	268.0	3.294					
2200.0	3.424	34.937	267.6	3.246					
2250.0	3.370	34.940	266.5	3.188					
2300.0	3.320	34.941	266.1	3.134					
2350.0	3.274	34.942	265.3	3.083					
2400.0	3.243	34.941	265.0	3.048					
2450.0	3.198	34.941	264.4	3.000					
2500.0	3.158	34.944	262.4	2.956					
2550.0	3.127	34.946	260.6	2.920					
2600.0	3.084	34.947	258.6	2.873					
2650.0	3.063	34.948	257.6	2.847					
2700.0	3.012	34.947	256.9	2.792					
2750.0	2.966	34.945	256.1	2.742					
2800.0	2.933	34.944	255.5	2.704					
2850.0	2.904	34.942	255.2	2.671					
2900.0	2.874	34.941	253.9	2.636					
2950.0	2.829	34.939	252.5	2.587					
3000.0	2.797	34.937	251.8	2.551					



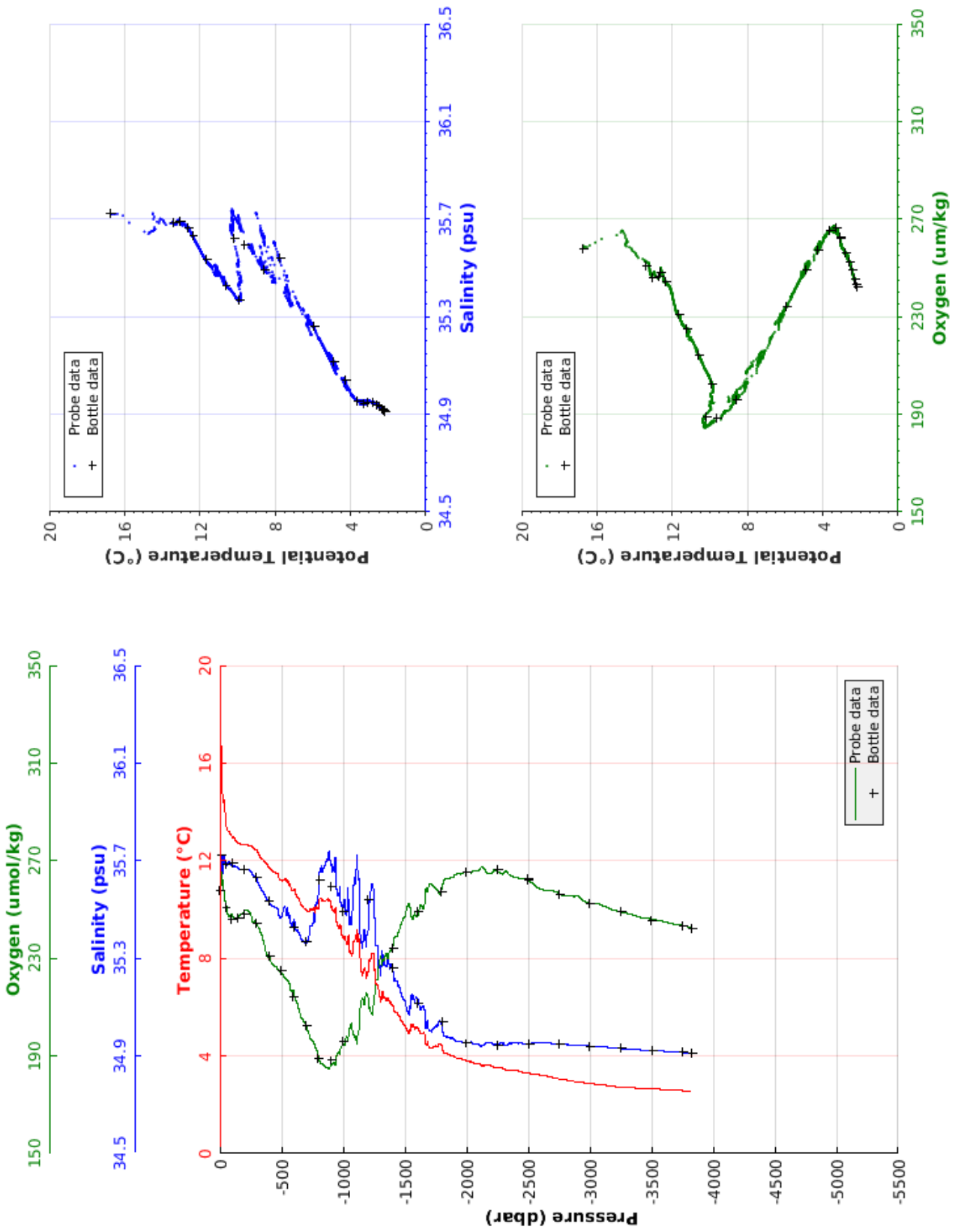
Station: 25

```

-----
| Cruise      : OVIDE 2018
| Station     : 26          Cast      : 1
| Date       : 22/06/2018   Ship     : N/O THALASSA
| Depth      : 3769 m       Organism : IFREMER
| Position   : N 44  4.71
|             W 017 25.33
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.703	35.721	258.7	16.703	3050.0	2.846	34.939	252.4	2.593
10.0	16.701	35.722	258.8	16.699	3100.0	2.809	34.937	251.6	2.552
20.0	14.951	35.648	263.4	14.948	3150.0	2.780	34.935	250.8	2.518
30.0	14.402	35.657	260.8	14.398	3200.0	2.748	34.933	249.7	2.482
40.0	14.148	35.693	257.4	14.142	3250.0	2.726	34.930	249.1	2.455
50.0	13.471	35.686	252.9	13.464	3300.0	2.712	34.929	248.4	2.436
100.0	12.982	35.679	248.2	12.968	3350.0	2.697	34.927	247.8	2.416
150.0	12.724	35.668	246.3	12.703	3400.0	2.669	34.925	246.9	2.383
200.0	12.644	35.665	248.8	12.617	3450.0	2.660	34.924	246.6	2.369
250.0	12.587	35.656	248.5	12.553	3500.0	2.652	34.923	246.1	2.356
300.0	12.411	35.628	244.4	12.371	3550.0	2.638	34.921	245.6	2.337
350.0	12.057	35.576	239.1	12.011	3600.0	2.622	34.919	245.1	2.316
400.0	11.714	35.527	230.5	11.661	3650.0	2.608	34.918	244.4	2.296
450.0	11.517	35.511	226.8	11.459	3700.0	2.596	34.916	243.9	2.279
500.0	11.180	35.468	224.0	11.117	3750.0	2.583	34.915	243.5	2.261
550.0	11.162	35.498	221.2	11.092	3800.0	2.562	34.912	242.9	2.235
600.0	10.832	35.459	216.9	10.757	3825.0	2.554	34.911	242.7	2.224
650.0	10.300	35.395	208.2	10.221					
700.0	9.988	35.366	202.8	9.905					
750.0	9.986	35.432	196.5	9.897					
800.0	10.117	35.554	191.5	10.020					
850.0	10.356	35.675	186.1	10.251					
900.0	10.198	35.701	185.6	10.087					
950.0	9.463	35.580	189.7	9.352					
1000.0	8.807	35.498	194.9	8.694					
1050.0	8.272	35.445	199.4	8.157					
1100.0	8.847	35.636	197.3	8.722					
1150.0	7.456	35.370	211.9	7.336					
1200.0	7.415	35.403	215.1	7.291					
1250.0	7.533	35.465	211.3	7.402					
1300.0	6.427	35.262	228.2	6.300					
1350.0	6.268	35.271	231.5	6.137					
1400.0	6.084	35.257	233.9	5.951					
1450.0	5.655	35.190	240.6	5.521					
1500.0	5.255	35.126	246.9	5.120					
1550.0	5.097	35.109	249.8	4.959					
1600.0	5.163	35.136	247.3	5.019					
1650.0	4.941	35.102	250.7	4.795					
1700.0	4.334	35.002	260.1	4.191					
1750.0	4.404	35.021	258.7	4.255					
1800.0	4.381	35.027	257.4	4.227					
1850.0	4.075	34.979	262.5	3.921					
1900.0	3.966	34.967	263.5	3.808					
1950.0	3.886	34.960	264.7	3.725					
2000.0	3.805	34.955	265.3	3.640					
2050.0	3.730	34.954	265.2	3.562					
2100.0	3.684	34.949	265.9	3.512					
2150.0	3.615	34.947	266.5	3.439					
2200.0	3.614	34.956	264.8	3.433					
2250.0	3.506	34.945	265.9	3.321					
2300.0	3.494	34.951	264.6	3.305					
2350.0	3.430	34.952	264.1	3.238					
2400.0	3.411	34.954	263.0	3.213					
2450.0	3.346	34.952	262.5	3.145					
2500.0	3.295	34.951	261.9	3.089					
2550.0	3.261	34.954	260.2	3.051					
2600.0	3.223	34.956	258.5	3.009					
2650.0	3.180	34.954	257.8	2.961					
2700.0	3.118	34.950	257.7	2.896					
2750.0	3.058	34.949	256.6	2.832					
2800.0	3.037	34.948	255.8	2.806					
2850.0	2.977	34.945	255.6	2.742					
2900.0	2.944	34.943	255.5	2.705					
2950.0	2.906	34.942	253.5	2.663					
3000.0	2.877	34.940	252.6	2.629					



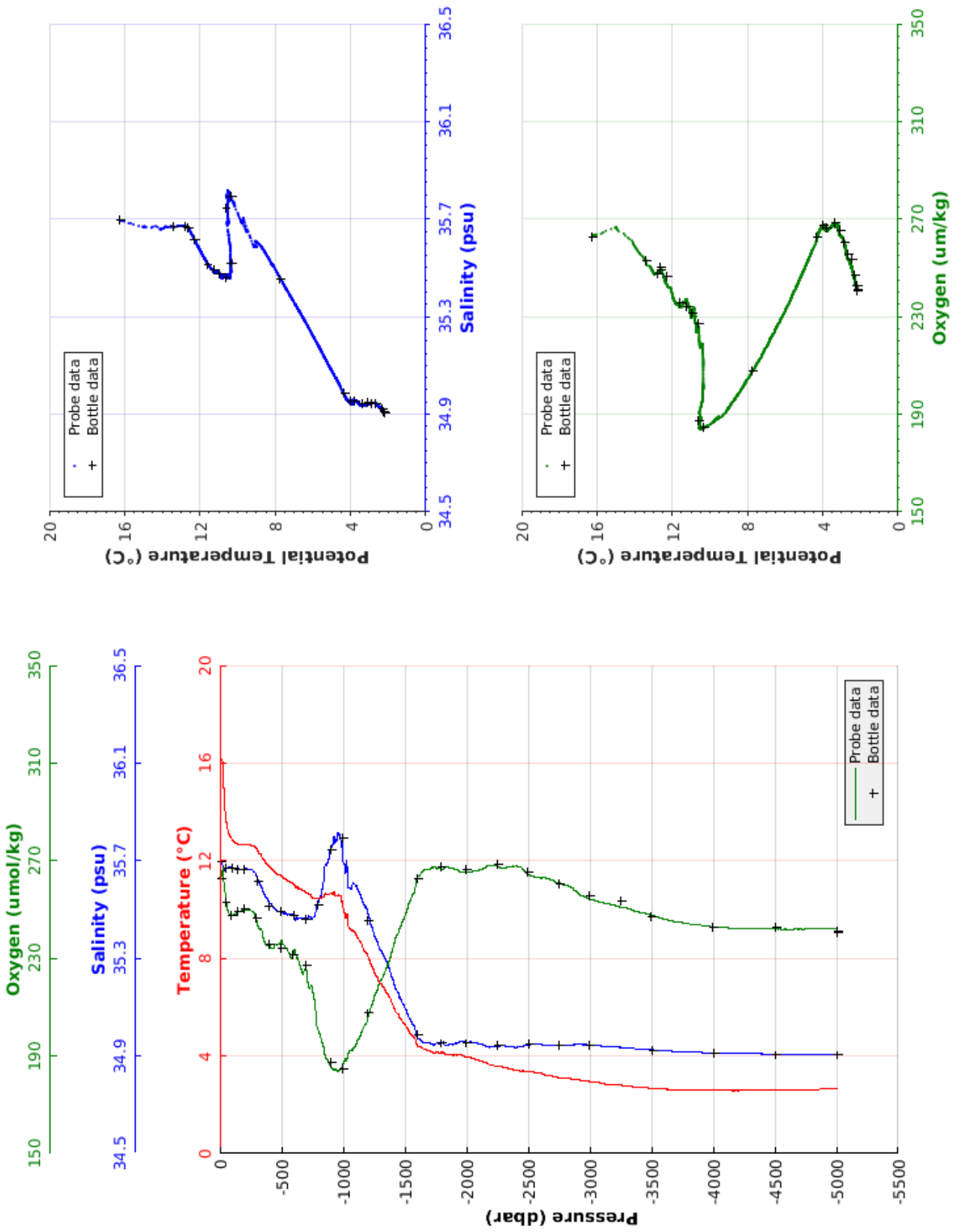
Station: 26

```

-----
| Cruise      : OVIDE 2018
| Station    : 27          Cast      : 1
| Date       : 22/06/2018   Ship     : N/O THALASSA
| Depth      : 4922 m      Organism : IFREMER
| Position   : N 44 22.63
|             W 017 49.28
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.149	35.695	263.4	16.149	3050.0	2.922	34.944	253.4	2.667
10.0	16.154	35.695	263.4	16.153	3100.0	2.867	34.940	252.9	2.608
20.0	16.120	35.694	263.5	16.117	3150.0	2.836	34.938	252.3	2.573
30.0	14.978	35.668	266.7	14.973	3200.0	2.819	34.937	251.8	2.552
40.0	14.097	35.658	260.5	14.091	3250.0	2.799	34.935	250.9	2.526
50.0	13.761	35.667	256.2	13.754	3300.0	2.769	34.933	250.8	2.492
100.0	12.894	35.671	247.8	12.881	3350.0	2.741	34.931	249.7	2.459
150.0	12.668	35.667	248.5	12.648	3400.0	2.717	34.929	248.9	2.430
200.0	12.646	35.667	249.6	12.619	3450.0	2.703	34.927	248.4	2.411
250.0	12.634	35.664	249.6	12.600	3500.0	2.677	34.925	247.7	2.380
300.0	12.489	35.639	246.0	12.448	3550.0	2.662	34.923	246.9	2.360
350.0	12.090	35.580	240.6	12.044	3600.0	2.644	34.921	246.2	2.337
400.0	11.773	35.534	235.5	11.720	3650.0	2.629	34.920	245.6	2.317
450.0	11.506	35.501	235.2	11.448	3700.0	2.621	34.918	245.0	2.303
500.0	11.351	35.487	236.9	11.286	3750.0	2.612	34.917	244.6	2.289
550.0	11.160	35.478	234.0	11.090	3800.0	2.604	34.916	244.1	2.276
600.0	11.000	35.472	231.3	10.924	3850.0	2.595	34.915	243.8	2.261
650.0	10.850	35.466	227.6	10.769	3900.0	2.594	34.914	243.6	2.254
700.0	10.692	35.458	225.6	10.605	3950.0	2.586	34.913	243.2	2.241
750.0	10.502	35.458	218.8	10.409	4000.0	2.584	34.912	242.9	2.233
800.0	10.452	35.528	201.1	10.354	4050.0	2.584	34.912	242.8	2.227
850.0	10.602	35.646	192.6	10.496	4100.0	2.584	34.911	242.6	2.222
900.0	10.662	35.743	186.0	10.549	4150.0	2.582	34.910	242.4	2.214
950.0	10.582	35.785	184.3	10.463	4200.0	2.580	34.910	242.1	2.206
1000.0	10.036	35.707	186.3	9.914	4250.0	2.583	34.909	242.1	2.203
1050.0	9.234	35.587	191.5	9.112	4300.0	2.584	34.909	242.0	2.198
1100.0	9.026	35.601	193.9	8.899	4350.0	2.588	34.909	242.0	2.196
1150.0	8.563	35.549	198.9	8.434	4400.0	2.592	34.909	242.1	2.193
1200.0	8.117	35.493	204.5	7.986	4450.0	2.593	34.908	242.0	2.189
1250.0	7.481	35.405	212.7	7.350	4500.0	2.596	34.908	242.0	2.186
1300.0	6.973	35.337	220.1	6.841	4550.0	2.599	34.908	241.9	2.182
1350.0	6.609	35.289	225.3	6.476	4600.0	2.604	34.908	241.9	2.182
1400.0	6.114	35.219	232.9	5.980	4650.0	2.612	34.908	241.9	2.182
1450.0	5.684	35.158	240.0	5.549	4700.0	2.616	34.907	242.0	2.180
1500.0	5.289	35.099	246.6	5.154	4750.0	2.622	34.907	242.0	2.180
1550.0	4.889	35.045	253.8	4.754	4800.0	2.627	34.907	242.0	2.179
1600.0	4.441	34.976	262.2	4.307	4850.0	2.633	34.907	242.1	2.178
1650.0	4.295	34.956	265.5	4.157	4900.0	2.640	34.907	242.1	2.178
1700.0	4.231	34.954	266.2	4.089	4950.0	2.645	34.907	242.2	2.177
1750.0	4.135	34.947	267.3	3.990	5000.0	2.651	34.907	242.3	2.177
1800.0	4.142	34.956	266.3	3.992	5011.0	2.652	34.907	242.2	2.176
1850.0	4.043	34.945	267.5	3.889					
1900.0	4.031	34.948	267.0	3.873					
1950.0	4.040	34.958	265.5	3.877					
2000.0	3.966	34.955	265.6	3.799					
2050.0	3.891	34.954	265.4	3.720					
2100.0	3.818	34.950	266.1	3.644					
2150.0	3.743	34.944	266.8	3.564					
2200.0	3.631	34.938	267.9	3.449					
2250.0	3.591	34.939	267.8	3.406					
2300.0	3.537	34.942	267.0	3.348					
2350.0	3.481	34.938	267.5	3.288					
2400.0	3.410	34.935	267.8	3.213					
2450.0	3.384	34.938	267.2	3.182					
2500.0	3.364	34.945	264.7	3.158					
2550.0	3.334	34.947	263.5	3.123					
2600.0	3.300	34.947	263.1	3.084					
2650.0	3.206	34.943	262.9	2.987					
2700.0	3.160	34.944	262.1	2.937					
2750.0	3.116	34.945	260.9	2.889					
2800.0	3.097	34.945	260.0	2.865					
2850.0	3.061	34.945	259.1	2.825					
2900.0	3.041	34.947	256.9	2.800					
2950.0	2.993	34.946	255.5	2.748					
3000.0	2.956	34.945	254.2	2.706					



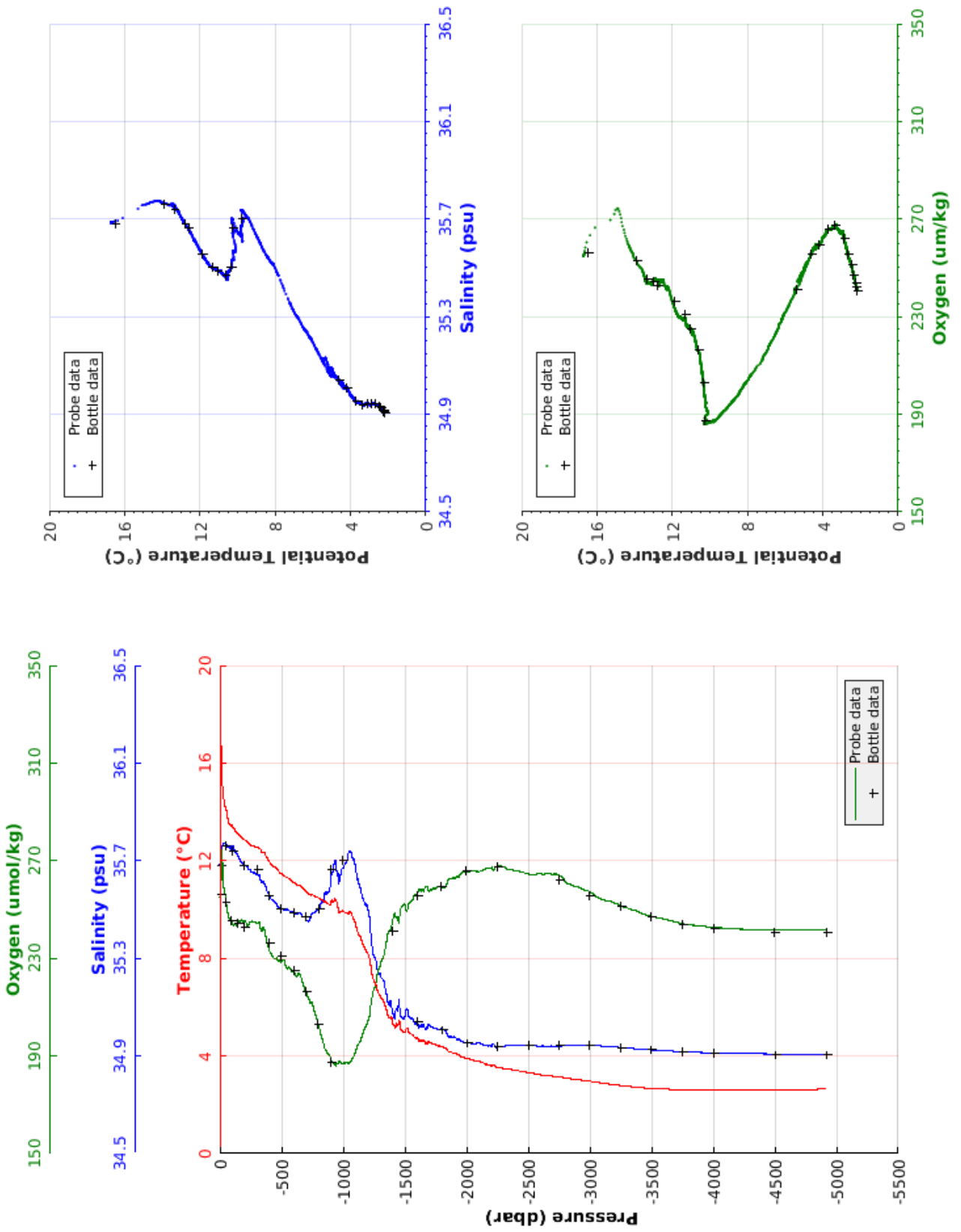
Station: 27

```

-----
| Cruise      : OVIDE 2018
| Station    : 28          Cast      : 1
| Date       : 22/06/2018   Ship       : N/O THALASSA
| Depth      : 4843 m       Organism  : IPREMER
| Position   : N 44 40.81
|             W 018 12.97
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.723	35.686	255.0	16.723	3050.0	2.929	34.942	255.4	2.674
10.0	16.701	35.686	255.3	16.699	3100.0	2.887	34.940	254.2	2.628
20.0	15.293	35.742	269.6	15.290	3150.0	2.853	34.939	253.5	2.590
30.0	14.571	35.770	265.6	14.567	3200.0	2.821	34.937	252.6	2.553
40.0	14.280	35.773	258.5	14.275	3250.0	2.784	34.934	251.7	2.512
50.0	14.113	35.771	256.0	14.106	3300.0	2.756	34.932	250.7	2.479
100.0	13.437	35.762	244.4	13.423	3350.0	2.734	34.930	250.0	2.452
150.0	13.103	35.721	243.3	13.083	3400.0	2.710	34.928	249.0	2.423
200.0	12.854	35.686	244.7	12.826	3450.0	2.684	34.926	247.9	2.392
250.0	12.664	35.662	244.9	12.630	3500.0	2.673	34.925	247.3	2.376
300.0	12.560	35.646	244.6	12.519	3550.0	2.659	34.923	246.7	2.357
350.0	12.327	35.610	241.2	12.280	3600.0	2.645	34.922	246.1	2.338
400.0	11.982	35.563	234.5	11.929	3650.0	2.632	34.920	245.5	2.320
450.0	11.729	35.530	229.8	11.671	3700.0	2.618	34.918	244.9	2.301
500.0	11.467	35.504	228.4	11.403	3750.0	2.605	34.917	244.2	2.283
550.0	11.307	35.500	225.8	11.237	3800.0	2.598	34.916	243.8	2.270
600.0	11.115	35.488	225.0	11.039	3850.0	2.595	34.915	243.5	2.261
650.0	10.982	35.488	224.0	10.900	3900.0	2.590	34.914	243.3	2.251
700.0	10.766	35.470	216.5	10.679	3950.0	2.588	34.913	243.0	2.243
750.0	10.620	35.484	212.1	10.526	4000.0	2.584	34.912	242.7	2.234
800.0	10.454	35.496	203.8	10.355	4050.0	2.584	34.912	242.6	2.228
850.0	10.318	35.547	194.3	10.213	4100.0	2.584	34.911	242.4	2.221
900.0	10.302	35.614	189.6	10.191	4150.0	2.581	34.911	242.2	2.213
950.0	10.155	35.651	186.6	10.039	4200.0	2.586	34.910	242.0	2.212
1000.0	9.939	35.670	186.9	9.818	4250.0	2.585	34.910	241.9	2.205
1050.0	9.923	35.737	187.0	9.795	4300.0	2.587	34.909	241.8	2.201
1100.0	9.420	35.681	191.1	9.290	4350.0	2.590	34.909	241.8	2.198
1150.0	8.733	35.569	197.0	8.603	4400.0	2.593	34.909	241.8	2.195
1200.0	8.237	35.514	203.1	8.105	4450.0	2.595	34.908	241.7	2.191
1250.0	7.047	35.308	216.7	6.920	4500.0	2.599	34.908	241.7	2.189
1300.0	6.456	35.238	226.5	6.329	4550.0	2.603	34.908	241.6	2.186
1350.0	5.915	35.162	235.1	5.788	4600.0	2.607	34.908	241.6	2.185
1400.0	5.324	35.074	244.3	5.199	4650.0	2.612	34.908	241.6	2.183
1450.0	5.381	35.113	245.8	5.250	4700.0	2.618	34.908	241.6	2.182
1500.0	4.993	35.057	252.2	4.861	4750.0	2.624	34.907	241.6	2.182
1550.0	4.907	35.056	252.9	4.772	4800.0	2.630	34.908	241.6	2.181
1600.0	4.762	35.041	255.8	4.623	4850.0	2.635	34.907	241.8	2.180
1650.0	4.596	35.019	258.3	4.455	4900.0	2.641	34.907	241.7	2.179
1700.0	4.578	35.028	257.5	4.432	4925.0	2.644	34.907	241.7	2.179
1750.0	4.463	35.014	258.5	4.313					
1800.0	4.385	35.012	259.1	4.231					
1850.0	4.197	34.985	261.3	4.042					
1900.0	4.119	34.978	262.8	3.959					
1950.0	4.006	34.965	264.0	3.843					
2000.0	3.901	34.954	265.4	3.735					
2050.0	3.841	34.950	265.8	3.671					
2100.0	3.779	34.953	265.6	3.605					
2150.0	3.686	34.946	266.4	3.509					
2200.0	3.605	34.940	267.0	3.424					
2250.0	3.539	34.939	267.4	3.354					
2300.0	3.486	34.937	267.5	3.297					
2350.0	3.457	34.942	266.5	3.264					
2400.0	3.406	34.943	265.9	3.209					
2450.0	3.368	34.943	265.3	3.167					
2500.0	3.326	34.944	264.6	3.120					
2550.0	3.276	34.943	264.2	3.066					
2600.0	3.226	34.939	265.0	3.012					
2650.0	3.177	34.938	264.8	2.959					
2700.0	3.164	34.939	264.3	2.941					
2750.0	3.139	34.940	264.1	2.911					
2800.0	3.110	34.944	261.7	2.878					
2850.0	3.062	34.943	260.2	2.826					
2900.0	3.019	34.943	259.3	2.779					
2950.0	2.998	34.943	258.2	2.753					
3000.0	2.965	34.943	257.4	2.715					



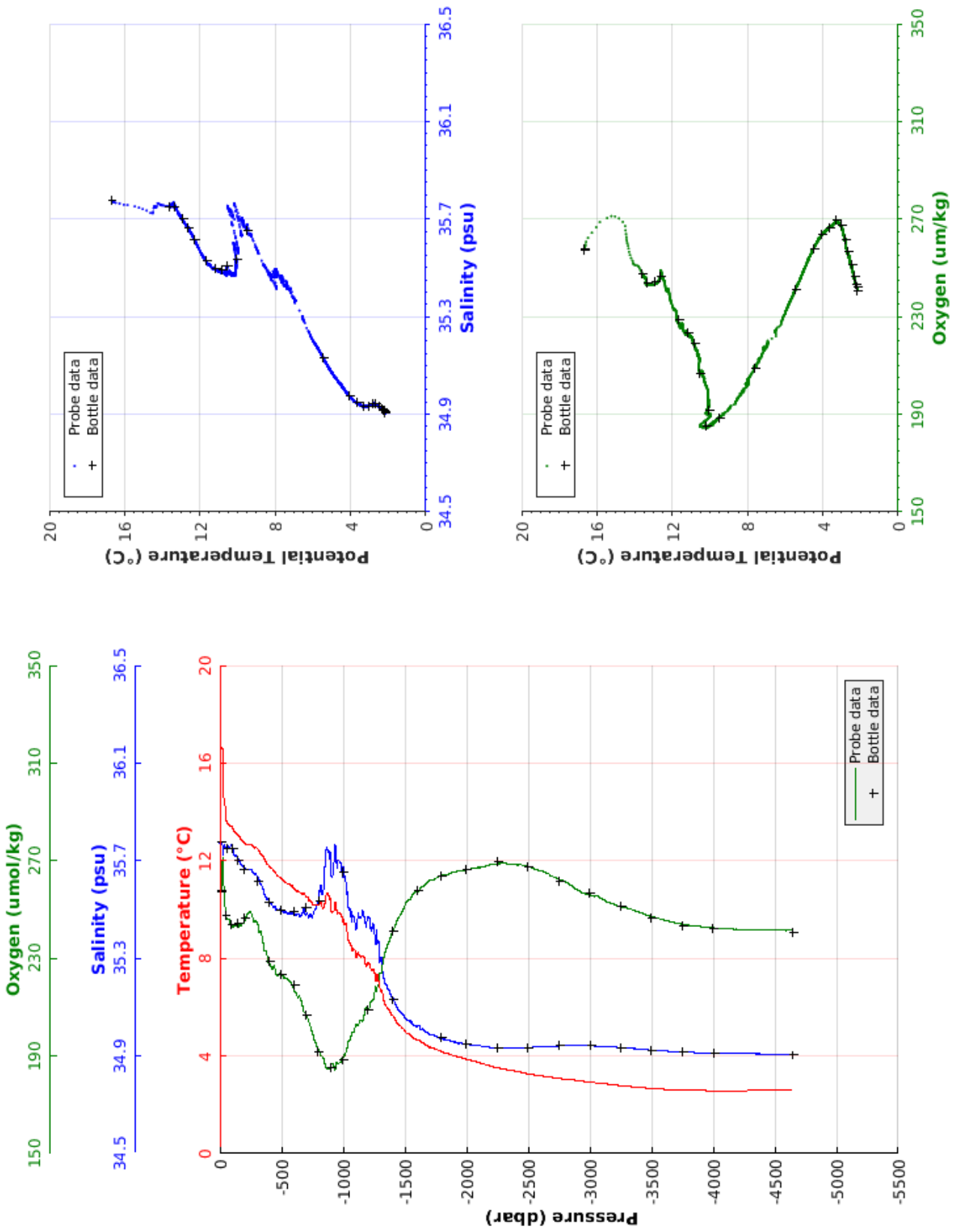
Station: 28


```

-----
| Cruise      : OVIDE 2018
| Station    : 29          Cast      : 1
| Date       : 23/06/2018   Ship       : N/O THALASSA
| Depth      : 4569 m      Organism  : IFREMER
| Position   : N 45 2.98
|             W 018 30.35
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.646	35.772	257.8	16.646	3050.0	2.897	34.941	255.5	2.643
10.0	16.643	35.773	258.0	16.642	3100.0	2.870	34.940	254.5	2.612
20.0	16.623	35.772	258.9	16.620	3150.0	2.844	34.939	253.0	2.581
30.0	14.832	35.735	270.2	14.827	3200.0	2.810	34.936	252.2	2.542
40.0	14.327	35.748	257.9	14.321	3250.0	2.780	34.934	251.3	2.508
50.0	13.783	35.751	250.5	13.776	3300.0	2.761	34.933	250.6	2.483
100.0	13.376	35.760	243.2	13.362	3350.0	2.733	34.930	249.8	2.451
150.0	13.048	35.711	243.2	13.027	3400.0	2.711	34.928	248.9	2.424
200.0	12.723	35.670	244.7	12.696	3450.0	2.688	34.926	248.0	2.396
250.0	12.644	35.664	248.9	12.610	3500.0	2.665	34.924	247.1	2.368
300.0	12.502	35.641	245.1	12.461	3550.0	2.649	34.922	246.4	2.347
350.0	12.184	35.591	238.0	12.137	3600.0	2.634	34.921	245.8	2.327
400.0	11.802	35.540	228.2	11.749	3650.0	2.620	34.919	245.1	2.308
450.0	11.505	35.509	226.4	11.447	3700.0	2.610	34.918	244.5	2.293
500.0	11.257	35.497	223.3	11.193	3750.0	2.596	34.916	243.9	2.273
550.0	11.050	35.484	221.5	10.981	3800.0	2.590	34.915	243.6	2.262
600.0	10.886	35.481	218.1	10.811	3850.0	2.585	34.914	243.3	2.251
650.0	10.695	35.473	214.5	10.615	3900.0	2.582	34.913	243.0	2.242
700.0	10.506	35.477	207.6	10.419	3950.0	2.581	34.913	242.7	2.236
750.0	10.231	35.468	200.5	10.140	4000.0	2.576	34.912	242.5	2.226
800.0	10.165	35.528	193.4	10.068	4050.0	2.575	34.911	242.3	2.219
850.0	10.207	35.622	188.2	10.103	4100.0	2.574	34.910	242.1	2.212
900.0	10.273	35.700	185.1	10.162	4150.0	2.575	34.910	242.0	2.207
950.0	9.852	35.679	186.7	9.737	4200.0	2.575	34.909	241.8	2.201
1000.0	9.616	35.675	189.2	9.497	4250.0	2.578	34.909	241.8	2.198
1050.0	8.667	35.504	196.2	8.549	4300.0	2.583	34.909	241.8	2.197
1100.0	8.159	35.435	201.4	8.040	4350.0	2.585	34.909	241.7	2.194
1150.0	8.069	35.471	204.6	7.945	4400.0	2.586	34.908	241.7	2.188
1200.0	7.792	35.465	209.2	7.664	4450.0	2.586	34.908	241.6	2.182
1250.0	7.462	35.427	213.2	7.331	4500.0	2.588	34.907	241.5	2.178
1300.0	6.643	35.286	223.4	6.514	4550.0	2.592	34.907	241.5	2.176
1350.0	6.037	35.191	233.3	5.909	4600.0	2.596	34.907	241.5	2.173
1400.0	5.663	35.143	240.0	5.534	4645.0	2.601	34.907	241.6	2.173
1450.0	5.282	35.090	246.4	5.152					
1500.0	5.039	35.060	250.8	4.907					
1550.0	4.854	35.041	254.4	4.719					
1600.0	4.667	35.022	257.5	4.529					
1650.0	4.530	35.008	259.4	4.389					
1700.0	4.354	34.986	262.1	4.211					
1750.0	4.280	34.980	262.8	4.132					
1800.0	4.177	34.971	263.9	4.026					
1850.0	4.101	34.966	264.4	3.946					
1900.0	4.009	34.958	265.2	3.851					
1950.0	3.934	34.952	265.8	3.772					
2000.0	3.861	34.948	266.2	3.695					
2050.0	3.795	34.945	266.8	3.626					
2100.0	3.727	34.942	267.2	3.554					
2150.0	3.654	34.938	267.7	3.477					
2200.0	3.587	34.934	268.4	3.406					
2250.0	3.520	34.932	268.7	3.336					
2300.0	3.469	34.931	269.0	3.281					
2350.0	3.427	34.932	268.8	3.234					
2400.0	3.382	34.932	268.5	3.185					
2450.0	3.321	34.932	268.3	3.121					
2500.0	3.262	34.934	267.6	3.057					
2550.0	3.224	34.936	266.8	3.015					
2600.0	3.184	34.937	266.0	2.971					
2650.0	3.158	34.938	265.0	2.940					
2700.0	3.111	34.940	263.6	2.889					
2750.0	3.082	34.941	262.5	2.855					
2800.0	3.051	34.942	261.5	2.819					
2850.0	3.034	34.943	260.0	2.799					
2900.0	2.990	34.943	258.3	2.750					
2950.0	2.959	34.943	256.7	2.714					
3000.0	2.928	34.942	256.1	2.679					



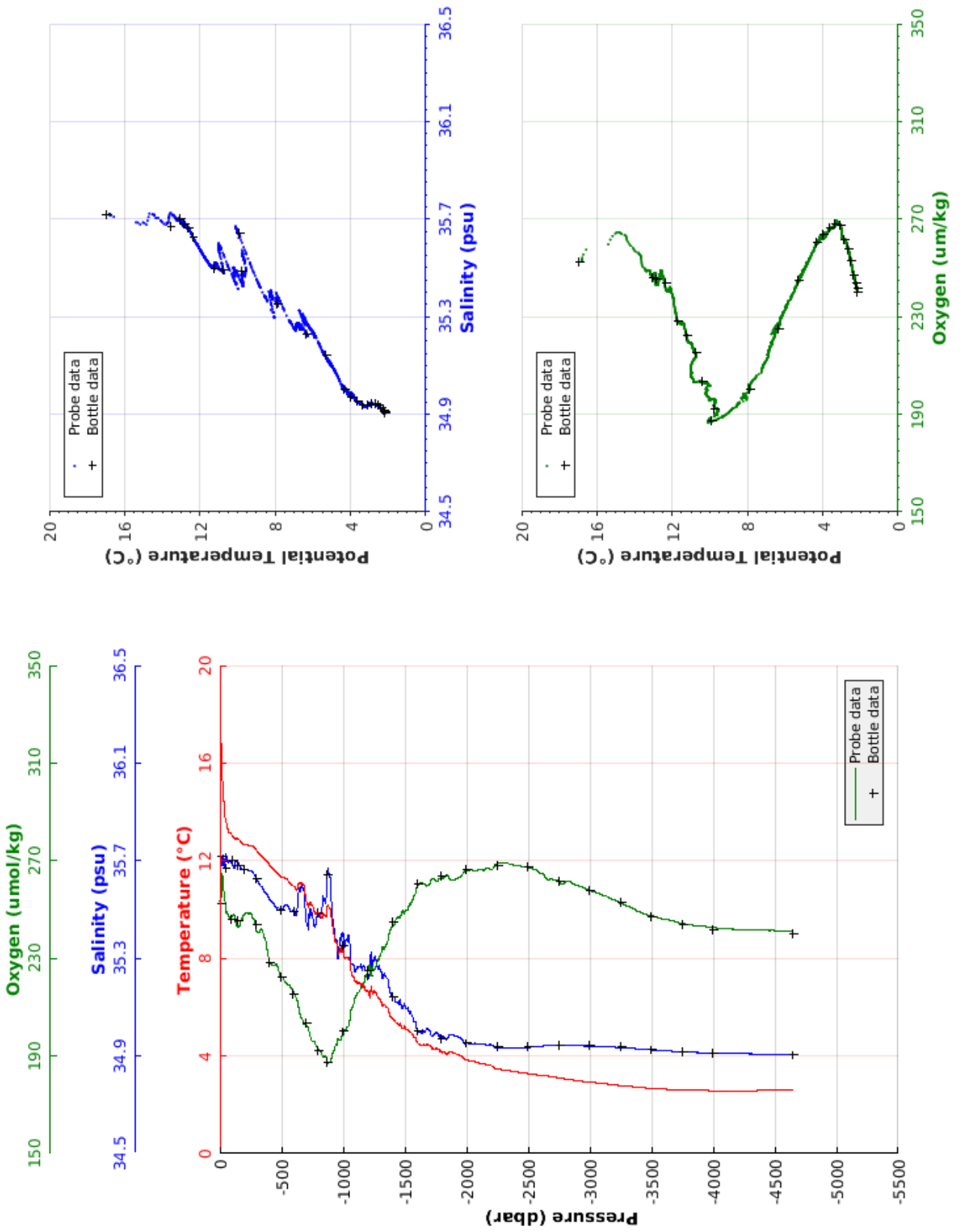
Station: 29

```

-----
| Cruise      : OVIDE 2018
| Station    : 30          Cast      : 1
| Date       : 23/06/2018   Ship       : N/O THALASSA
| Depth      : 4572 m       Organism  : IFREMER
| Position   : N 45 25.39
|             W 018 48.12
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.783	35.718	253.3	16.783	3050.0	2.896	34.940	257.1	2.642
10.0	16.784	35.719	253.1	16.782	3100.0	2.870	34.939	256.1	2.612
20.0	15.398	35.686	259.6	15.395	3150.0	2.844	34.938	255.1	2.581
30.0	14.474	35.718	263.1	14.470	3200.0	2.812	34.936	253.9	2.544
40.0	13.922	35.680	256.6	13.916	3250.0	2.782	34.934	252.6	2.510
50.0	13.637	35.710	252.4	13.630	3300.0	2.764	34.933	251.5	2.487
100.0	13.034	35.688	247.0	13.020	3350.0	2.741	34.931	250.4	2.459
150.0	12.879	35.690	243.3	12.858	3400.0	2.712	34.928	249.1	2.425
200.0	12.666	35.663	247.5	12.639	3450.0	2.687	34.926	248.1	2.396
250.0	12.621	35.661	248.9	12.587	3500.0	2.675	34.925	247.4	2.378
300.0	12.397	35.623	241.4	12.357	3550.0	2.656	34.923	246.7	2.354
350.0	12.130	35.587	241.3	12.084	3600.0	2.642	34.921	246.0	2.335
400.0	11.851	35.549	230.5	11.799	3650.0	2.632	34.920	245.6	2.319
450.0	11.563	35.514	227.2	11.504	3700.0	2.616	34.918	245.0	2.299
500.0	11.324	35.499	222.6	11.260	3750.0	2.604	34.916	244.3	2.281
550.0	11.194	35.516	219.6	11.124	3800.0	2.599	34.916	243.9	2.271
600.0	10.926	35.491	216.3	10.851	3850.0	2.591	34.914	243.5	2.257
650.0	11.116	35.589	208.0	11.033	3900.0	2.586	34.913	243.2	2.247
700.0	10.361	35.467	202.7	10.275	3950.0	2.585	34.913	242.9	2.240
750.0	10.139	35.483	196.4	10.048	4000.0	2.579	34.912	242.6	2.229
800.0	9.854	35.478	193.0	9.759	4050.0	2.576	34.911	242.3	2.220
850.0	9.773	35.536	189.8	9.672	4100.0	2.577	34.911	242.1	2.215
900.0	9.923	35.613	187.4	9.815	4150.0	2.576	34.910	242.0	2.208
950.0	8.564	35.371	194.6	8.459	4200.0	2.577	34.909	241.9	2.203
1000.0	8.339	35.405	198.0	8.230	4250.0	2.578	34.909	241.7	2.198
1050.0	7.946	35.378	202.6	7.833	4300.0	2.579	34.909	241.6	2.194
1100.0	7.027	35.244	213.8	6.917	4350.0	2.580	34.908	241.5	2.188
1150.0	6.911	35.266	217.7	6.796	4400.0	2.584	34.908	241.6	2.186
1200.0	6.628	35.250	223.5	6.510	4450.0	2.586	34.907	241.4	2.182
1250.0	6.651	35.300	225.2	6.528	4500.0	2.589	34.907	241.4	2.179
1300.0	6.287	35.254	230.5	6.162	4550.0	2.592	34.907	241.2	2.176
1350.0	6.005	35.222	235.2	5.878	4600.0	2.598	34.907	241.2	2.175
1400.0	5.514	35.145	243.0	5.387	4650.0	2.604	34.907	NaN	2.175
1450.0	5.291	35.114	246.9	5.161					
1500.0	5.189	35.110	248.4	5.055					
1550.0	4.984	35.081	251.8	4.848					
1600.0	4.552	35.010	258.7	4.416					
1650.0	4.477	35.008	260.7	4.337					
1700.0	4.435	35.005	260.1	4.291					
1750.0	4.300	34.991	262.1	4.153					
1800.0	4.138	34.971	263.6	3.988					
1850.0	4.097	34.974	264.0	3.943					
1900.0	4.124	34.986	262.1	3.964					
1950.0	4.012	34.975	263.0	3.850					
2000.0	3.841	34.953	265.8	3.676					
2050.0	3.774	34.951	266.1	3.605					
2100.0	3.701	34.948	266.3	3.528					
2150.0	3.663	34.948	266.1	3.486					
2200.0	3.607	34.946	266.5	3.426					
2250.0	3.472	34.931	268.8	3.289					
2300.0	3.427	34.931	269.1	3.239					
2350.0	3.390	34.932	268.8	3.198					
2400.0	3.353	34.933	268.2	3.157					
2450.0	3.314	34.934	267.7	3.114					
2500.0	3.275	34.935	267.2	3.070					
2550.0	3.243	34.936	266.5	3.034					
2600.0	3.213	34.940	264.8	2.999					
2650.0	3.193	34.945	262.6	2.975					
2700.0	3.140	34.943	262.2	2.917					
2750.0	3.106	34.944	261.2	2.879					
2800.0	3.053	34.942	261.1	2.822					
2850.0	3.022	34.941	261.1	2.786					
2900.0	2.985	34.941	260.0	2.745					
2950.0	2.953	34.941	259.0	2.708					
3000.0	2.921	34.940	257.8	2.672					



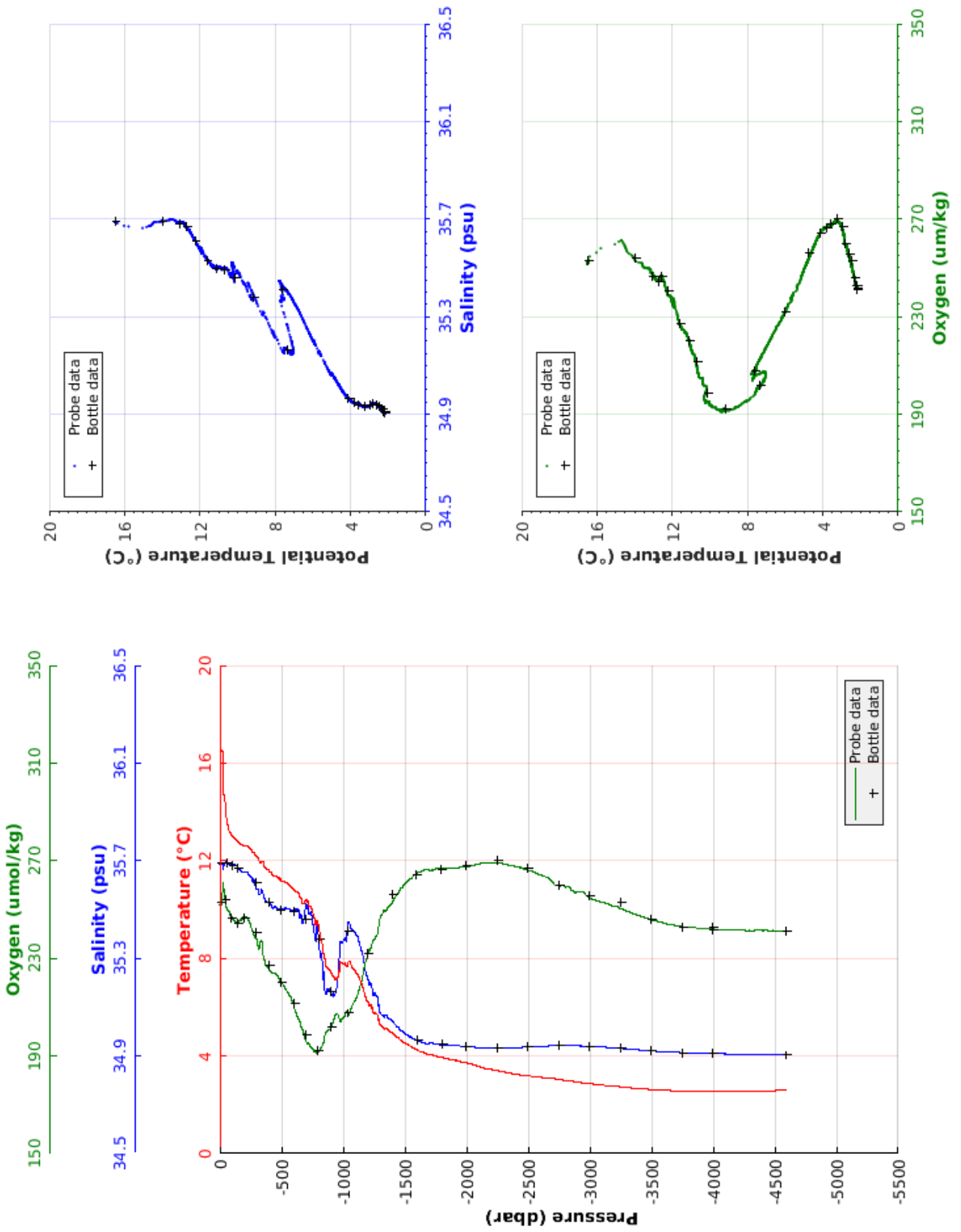
Station: 30

```

-----
| Cruise      : OVIDE 2018
| Station    : 31          Cast      : 1
| Date       : 23/06/2018   Ship       : N/O THALASSA
| Depth      : 4519 m       Organism  : IPREMER
| Position   : N 45 47.79
|             W 019 5.48
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.508	35.688	251.8	16.508	3050.0	2.839	34.938	253.8	2.587
10.0	16.512	35.688	251.8	16.510	3100.0	2.805	34.936	253.0	2.548
20.0	16.488	35.687	251.9	16.484	3150.0	2.781	34.935	252.3	2.520
30.0	14.835	35.668	260.7	14.831	3200.0	2.753	34.933	251.4	2.486
40.0	14.463	35.685	257.7	14.457	3250.0	2.736	34.931	250.4	2.465
50.0	14.017	35.692	253.4	14.010	3300.0	2.708	34.929	249.4	2.432
100.0	13.039	35.684	247.4	13.025	3350.0	2.684	34.927	248.3	2.403
150.0	12.749	35.669	244.9	12.728	3400.0	2.663	34.925	247.4	2.377
200.0	12.610	35.654	246.6	12.583	3450.0	2.638	34.922	246.7	2.347
250.0	12.473	35.636	244.4	12.439	3500.0	2.620	34.920	245.9	2.324
300.0	12.134	35.588	238.2	12.094	3550.0	2.608	34.919	245.2	2.307
350.0	11.957	35.578	235.7	11.911	3600.0	2.596	34.918	244.5	2.290
400.0	11.593	35.528	225.8	11.541	3650.0	2.581	34.916	243.8	2.270
450.0	11.388	35.512	223.8	11.331	3700.0	2.574	34.915	243.5	2.258
500.0	11.182	35.496	220.2	11.118	3750.0	2.566	34.913	243.0	2.244
550.0	11.055	35.504	216.5	10.986	3800.0	2.560	34.912	242.8	2.233
600.0	10.827	35.496	211.6	10.752	3850.0	2.559	34.912	242.5	2.226
650.0	10.476	35.467	204.8	10.396	3900.0	2.558	34.911	242.4	2.219
700.0	10.418	35.522	196.6	10.332	3950.0	2.556	34.910	242.3	2.212
750.0	9.967	35.470	193.2	9.877	4000.0	2.553	34.910	242.0	2.203
800.0	9.319	35.402	191.4	9.227	4050.0	2.554	34.909	241.7	2.198
850.0	8.062	35.218	195.6	7.971	4100.0	2.553	34.909	241.7	2.191
900.0	7.457	35.164	201.1	7.365	4150.0	2.555	34.908	241.5	2.187
950.0	7.176	35.181	207.3	7.081	4200.0	2.558	34.908	241.5	2.184
1000.0	7.781	35.368	205.6	7.676	4250.0	2.561	34.908	241.5	2.182
1050.0	7.892	35.448	206.5	7.780	4300.0	2.564	34.907	241.4	2.178
1100.0	7.475	35.404	212.4	7.360	4350.0	2.568	34.907	241.5	2.177
1150.0	6.936	35.334	220.2	6.820	4400.0	2.573	34.907	241.4	2.175
1200.0	6.255	35.223	230.1	6.140	4450.0	2.576	34.907	241.4	2.172
1250.0	5.793	35.154	237.6	5.678	4500.0	2.580	34.906	241.3	2.170
1300.0	5.282	35.079	245.8	5.167	4550.0	2.584	34.906	241.3	2.168
1350.0	5.121	35.066	249.5	5.002	4597.0	2.589	34.906	241.4	2.167
1400.0	4.928	35.044	252.8	4.807					
1450.0	4.726	35.017	256.7	4.603					
1500.0	4.536	34.994	260.0	4.410					
1550.0	4.393	34.979	262.6	4.264					
1600.0	4.241	34.963	264.8	4.109					
1650.0	4.145	34.956	265.9	4.009					
1700.0	4.068	34.953	266.2	3.928					
1750.0	3.996	34.947	266.6	3.853					
1800.0	3.945	34.946	266.5	3.798					
1850.0	3.876	34.946	266.7	3.725					
1900.0	3.828	34.944	267.0	3.673					
1950.0	3.766	34.941	267.3	3.607					
2000.0	3.715	34.940	267.4	3.552					
2050.0	3.645	34.937	268.0	3.478					
2100.0	3.572	34.934	268.4	3.401					
2150.0	3.494	34.931	269.0	3.320					
2200.0	3.454	34.931	268.9	3.275					
2250.0	3.404	34.931	269.0	3.221					
2300.0	3.347	34.932	268.8	3.161					
2350.0	3.293	34.933	268.1	3.102					
2400.0	3.256	34.934	267.6	3.061					
2450.0	3.224	34.935	267.2	3.025					
2500.0	3.184	34.937	266.1	2.980					
2550.0	3.155	34.938	265.2	2.947					
2600.0	3.121	34.939	264.3	2.909					
2650.0	3.090	34.941	263.3	2.873					
2700.0	3.068	34.943	261.4	2.847					
2750.0	3.045	34.944	259.8	2.819					
2800.0	2.995	34.943	259.5	2.765					
2850.0	2.962	34.943	258.2	2.728					
2900.0	2.927	34.942	257.1	2.688					
2950.0	2.893	34.940	257.1	2.650					
3000.0	2.859	34.939	254.9	2.611					

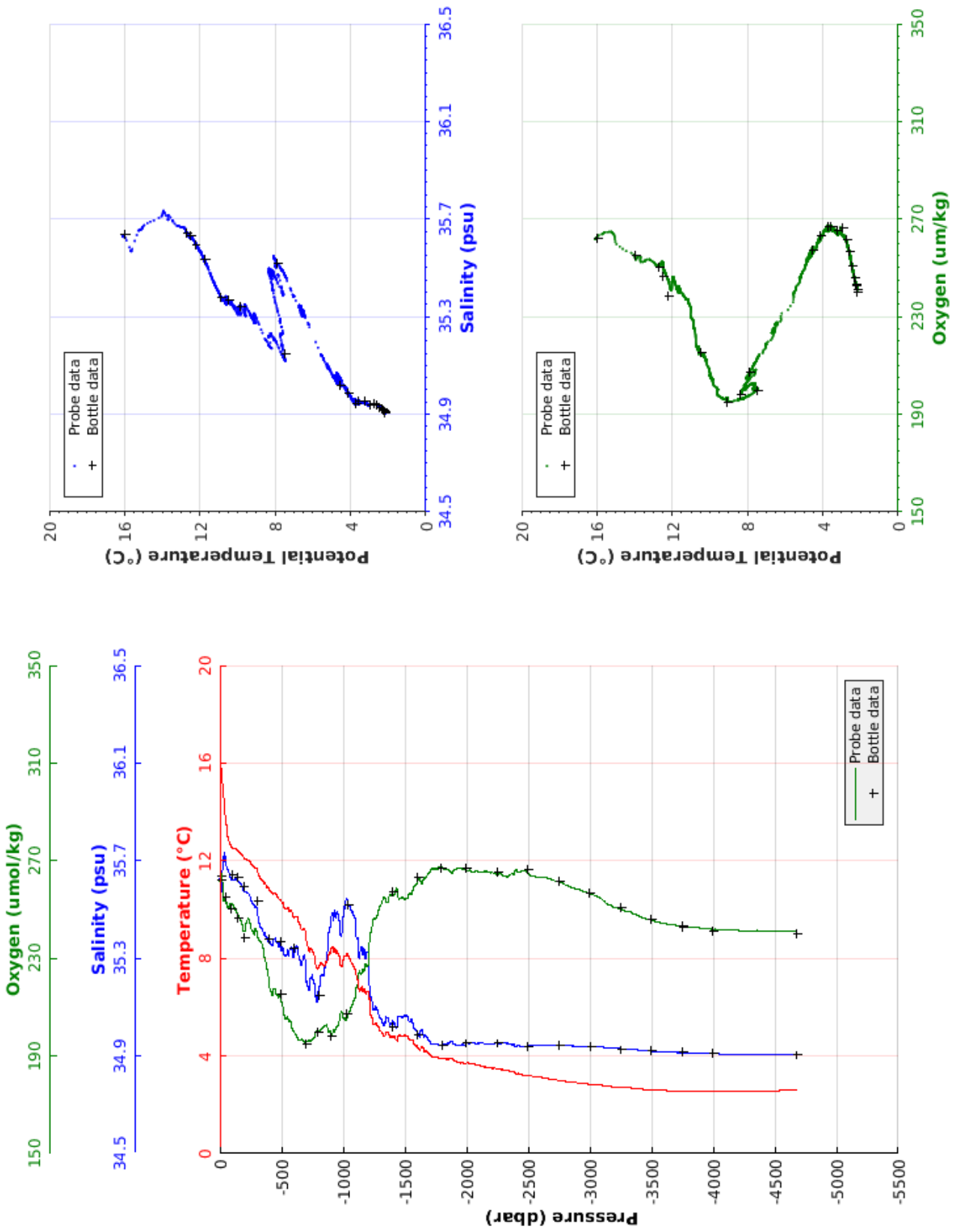


Station: 31

```

-----
| Cruise      : OVIDE 2018
| Station    : 32          Cast      : 1
| Date       : 23/06/2018   Ship     : N/O THALASSA
| Depth      : 4603 m       Organism : IFREMER
| Position   : N 46 10.47
|             W 019 22.86
|-----
  
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.067	35.629	261.8	16.067	3050.0	2.822	34.937	255.6	2.570
10.0	15.910	35.613	263.4	15.908	3100.0	2.796	34.936	254.3	2.540
20.0	15.221	35.654	264.6	15.218	3150.0	2.763	34.934	252.2	2.502
30.0	14.801	35.683	258.8	14.797	3200.0	2.732	34.932	250.9	2.466
40.0	13.937	35.734	253.5	13.931	3250.0	2.711	34.930	250.2	2.441
50.0	13.691	35.715	252.6	13.684	3300.0	2.695	34.928	249.2	2.420
100.0	12.554	35.626	251.8	12.541	3350.0	2.674	34.926	248.4	2.394
150.0	12.400	35.617	248.1	12.380	3400.0	2.655	34.924	247.4	2.370
200.0	12.088	35.576	241.0	12.062	3450.0	2.628	34.922	246.4	2.338
250.0	11.903	35.550	244.4	11.870	3500.0	2.612	34.920	245.7	2.316
300.0	11.664	35.511	241.9	11.626	3550.0	2.599	34.918	245.0	2.299
350.0	11.180	35.420	235.6	11.135	3600.0	2.586	34.917	244.4	2.280
400.0	10.812	35.366	222.5	10.763	3650.0	2.576	34.915	243.8	2.265
450.0	10.669	35.380	217.7	10.614	3700.0	2.570	34.914	243.5	2.254
500.0	10.320	35.346	212.9	10.260	3750.0	2.569	34.914	243.2	2.247
550.0	10.071	35.336	206.0	10.005	3800.0	2.560	34.912	242.8	2.233
600.0	9.644	35.306	200.2	9.574	3850.0	2.559	34.912	242.8	2.226
650.0	9.327	35.297	196.4	9.252	3900.0	2.556	34.911	242.5	2.218
700.0	8.945	35.268	195.3	8.867	3950.0	2.550	34.910	242.1	2.206
750.0	8.340	35.231	196.5	8.259	4000.0	2.550	34.909	241.9	2.201
800.0	7.688	35.164	200.4	7.606	4050.0	2.548	34.909	241.8	2.193
850.0	7.668	35.231	202.5	7.580	4100.0	2.549	34.908	241.7	2.188
900.0	8.245	35.429	200.1	8.148	4150.0	2.550	34.908	241.5	2.183
950.0	8.292	35.492	201.7	8.188	4200.0	2.553	34.907	241.4	2.180
1000.0	7.950	35.470	206.8	7.843	4250.0	2.556	34.907	241.4	2.177
1050.0	7.971	35.516	207.8	7.859	4300.0	2.559	34.907	241.3	2.174
1100.0	7.548	35.461	213.5	7.433	4350.0	2.562	34.907	241.4	2.171
1150.0	6.837	35.347	223.4	6.723	4400.0	2.567	34.906	241.2	2.170
1200.0	6.624	35.324	226.9	6.506	4450.0	2.571	34.906	241.2	2.168
1250.0	5.306	35.090	246.1	5.195	4500.0	2.577	34.906	241.2	2.167
1300.0	5.038	35.055	251.1	4.925	4550.0	2.583	34.906	241.3	2.167
1350.0	4.968	35.059	253.4	4.851	4600.0	2.587	34.906	241.3	2.165
1400.0	4.831	35.044	255.6	4.711	4650.0	2.590	34.906	241.3	2.161
1450.0	4.835	35.060	255.1	4.710	4683.0	2.595	34.906	241.2	2.162
1500.0	4.851	35.069	254.0	4.721					
1550.0	4.641	35.042	256.8	4.509					
1600.0	4.396	35.004	260.6	4.262					
1650.0	4.280	34.992	261.1	4.142					
1700.0	4.070	34.963	265.1	3.930					
1750.0	3.949	34.948	266.7	3.807					
1800.0	3.880	34.942	267.2	3.733					
1850.0	3.865	34.949	266.4	3.714					
1900.0	3.814	34.950	266.0	3.659					
1950.0	3.720	34.942	267.1	3.561					
2000.0	3.717	34.952	266.3	3.553					
2050.0	3.699	34.955	265.4	3.531					
2100.0	3.615	34.952	265.5	3.444					
2150.0	3.551	34.949	265.7	3.376					
2200.0	3.513	34.949	265.1	3.333					
2250.0	3.483	34.952	264.5	3.299					
2300.0	3.439	34.952	263.8	3.251					
2350.0	3.380	34.950	263.8	3.188					
2400.0	3.275	34.938	266.0	3.080					
2450.0	3.229	34.939	265.8	3.029					
2500.0	3.183	34.940	265.3	2.980					
2550.0	3.147	34.941	263.6	2.940					
2600.0	3.130	34.942	263.2	2.918					
2650.0	3.073	34.941	263.0	2.857					
2700.0	3.037	34.942	262.1	2.817					
2750.0	2.998	34.942	261.5	2.773					
2800.0	2.961	34.942	260.2	2.732					
2850.0	2.929	34.941	259.2	2.696					
2900.0	2.902	34.941	258.3	2.664					
2950.0	2.876	34.940	257.4	2.633					
3000.0	2.843	34.938	256.6	2.596					



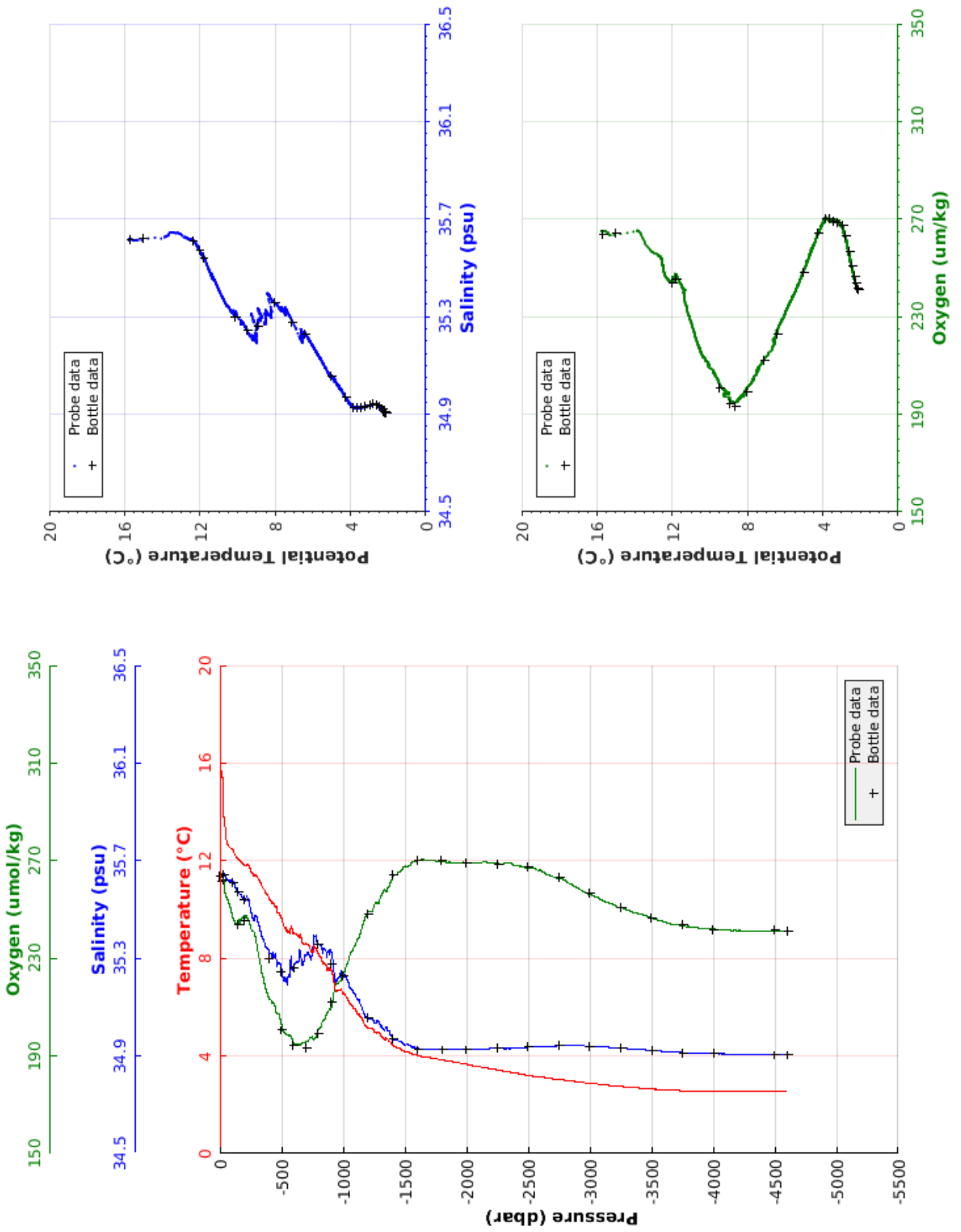
Station: 32


```

-----
| Cruise      : OVIDE 2018
| Station     : 33          Cast      : 1
| Date       : 23/06/2018   Ship     : N/O THALASSA
| Depth      : 4526 m       Organism : IFREMER
| Position   : N 46 32.65
|             W 019 40.40
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.772	35.616	264.9	15.772	3050.0	2.856	34.939	255.1	2.604
10.0	15.694	35.619	265.0	15.693	3100.0	2.824	34.937	253.9	2.567
20.0	15.411	35.615	264.4	15.408	3150.0	2.797	34.936	252.8	2.535
30.0	13.864	35.627	265.3	13.860	3200.0	2.773	34.934	251.9	2.506
40.0	13.478	35.645	260.8	13.472	3250.0	2.747	34.932	250.8	2.476
50.0	13.047	35.639	256.4	13.040	3300.0	2.726	34.930	249.9	2.449
100.0	12.489	35.619	249.2	12.476	3350.0	2.703	34.928	248.9	2.421
150.0	12.069	35.576	244.3	12.049	3400.0	2.687	34.927	248.3	2.400
200.0	11.831	35.538	247.4	11.805	3450.0	2.669	34.925	247.5	2.378
250.0	11.616	35.503	243.8	11.584	3500.0	2.650	34.923	246.7	2.354
300.0	11.390	35.470	237.5	11.352	3550.0	2.627	34.920	245.8	2.326
350.0	10.866	35.382	223.3	10.823	3600.0	2.610	34.918	245.0	2.304
400.0	10.441	35.329	214.1	10.393	3650.0	2.590	34.916	244.2	2.279
450.0	10.110	35.304	210.4	10.056	3700.0	2.587	34.916	243.8	2.270
500.0	9.648	35.259	204.3	9.590	3750.0	2.575	34.914	243.3	2.253
550.0	9.155	35.223	198.7	9.093	3800.0	2.570	34.913	243.0	2.242
600.0	8.996	35.258	195.8	8.929	3850.0	2.561	34.912	242.7	2.228
650.0	8.977	35.327	194.7	8.904	3900.0	2.556	34.911	242.3	2.217
700.0	8.582	35.310	195.7	8.505	3950.0	2.554	34.910	242.1	2.210
750.0	8.314	35.321	197.7	8.234	4000.0	2.554	34.909	241.9	2.204
800.0	8.151	35.359	200.2	8.066	4050.0	2.553	34.909	241.7	2.198
850.0	7.770	35.339	205.0	7.681	4100.0	2.553	34.908	241.6	2.192
900.0	7.546	35.334	208.8	7.453	4150.0	2.553	34.908	241.4	2.185
950.0	6.671	35.206	219.5	6.580	4200.0	2.557	34.907	241.4	2.183
1000.0	6.559	35.226	223.2	6.462	4250.0	2.557	34.907	241.4	2.178
1050.0	6.183	35.189	229.7	6.085	4300.0	2.555	34.906	241.1	2.170
1100.0	5.892	35.152	235.2	5.791	4350.0	2.561	34.906	241.3	2.169
1150.0	5.542	35.106	241.1	5.439	4400.0	2.564	34.906	241.2	2.167
1200.0	5.152	35.053	248.4	5.048	4450.0	2.568	34.906	241.2	2.165
1250.0	5.030	35.045	250.6	4.922	4500.0	2.573	34.906	241.2	2.163
1300.0	4.880	35.030	253.7	4.769	4550.0	2.571	34.905	241.2	2.156
1350.0	4.741	35.019	257.3	4.627	4600.0	2.576	34.905	241.2	2.154
1400.0	4.459	34.979	262.3	4.343	4603.0	2.577	34.905	241.0	2.154
1450.0	4.324	34.962	265.0	4.205					
1500.0	4.186	34.946	267.6	4.064					
1550.0	4.120	34.940	268.4	3.994					
1600.0	4.044	34.933	269.7	3.914					
1650.0	3.961	34.927	270.6	3.827					
1700.0	3.933	34.929	270.0	3.796					
1750.0	3.880	34.928	270.0	3.738					
1800.0	3.834	34.928	269.7	3.689					
1850.0	3.802	34.928	269.3	3.652					
1900.0	3.748	34.928	269.2	3.594					
1950.0	3.709	34.928	269.1	3.550					
2000.0	3.658	34.929	269.1	3.496					
2050.0	3.595	34.928	269.2	3.429					
2100.0	3.560	34.929	269.3	3.389					
2150.0	3.518	34.929	269.4	3.343					
2200.0	3.475	34.930	269.0	3.296					
2250.0	3.435	34.931	269.1	3.252					
2300.0	3.378	34.931	268.7	3.191					
2350.0	3.340	34.930	269.2	3.149					
2400.0	3.300	34.934	267.9	3.105					
2450.0	3.258	34.935	267.6	3.059					
2500.0	3.209	34.936	267.1	3.005					
2550.0	3.164	34.936	266.8	2.956					
2600.0	3.130	34.938	266.2	2.917					
2650.0	3.107	34.940	264.4	2.890					
2700.0	3.065	34.941	263.5	2.843					
2750.0	3.039	34.941	262.8	2.813					
2800.0	3.008	34.942	262.0	2.778					
2850.0	2.976	34.942	260.4	2.742					
2900.0	2.948	34.942	258.8	2.709					
2950.0	2.908	34.941	257.5	2.664					
3000.0	2.877	34.940	256.2	2.628					

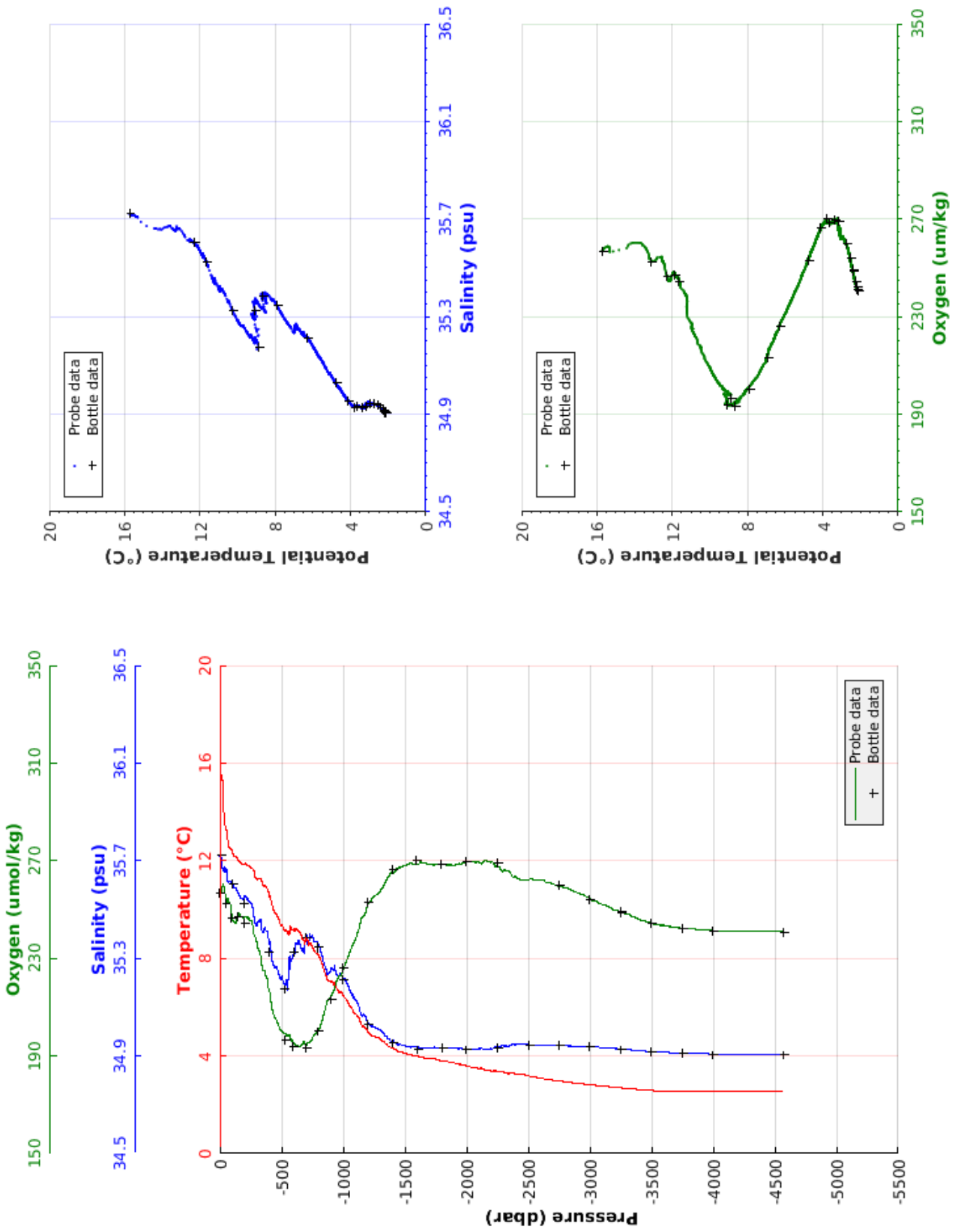


Station: 33

```

-----
| Cruise      : OVIDE 2018
| Station    : 34          Cast      : 1
| Date       : 24/06/2018   Ship     : N/O THALASSA
| Depth      : 4493 m      Organism : IFREMER
| Position   : N 46 54.99
|             W 019 58.25
|-----
  
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.703	35.719	257.3	15.703	3050.0	2.797	34.936	253.4	2.545
10.0	15.549	35.715	258.4	15.547	3100.0	2.766	34.934	252.1	2.510
20.0	15.324	35.708	257.1	15.321	3150.0	2.743	34.933	251.3	2.483
30.0	14.073	35.657	260.3	14.069	3200.0	2.717	34.931	249.8	2.451
40.0	13.504	35.664	259.0	13.499	3250.0	2.695	34.929	248.9	2.425
50.0	13.266	35.656	255.7	13.259	3300.0	2.674	34.927	248.2	2.399
100.0	12.401	35.608	249.7	12.388	3350.0	2.646	34.924	247.0	2.366
150.0	12.024	35.571	247.3	12.005	3400.0	2.623	34.922	246.0	2.338
200.0	11.860	35.547	246.9	11.834	3450.0	2.603	34.920	245.3	2.314
250.0	11.720	35.527	245.5	11.687	3500.0	2.584	34.918	244.3	2.289
300.0	11.255	35.435	237.7	11.217	3550.0	2.572	34.916	243.8	2.272
350.0	11.003	35.407	226.6	10.959	3600.0	2.569	34.915	243.6	2.263
400.0	10.550	35.362	217.7	10.501	3650.0	2.560	34.914	243.0	2.250
450.0	9.842	35.263	205.8	9.790	3700.0	2.551	34.913	242.6	2.235
500.0	9.363	35.221	200.6	9.307	3750.0	2.548	34.912	242.4	2.227
550.0	9.042	35.204	198.3	8.981	3800.0	2.546	34.911	242.1	2.220
600.0	9.186	35.315	195.7	9.119	3850.0	2.542	34.910	242.0	2.210
650.0	9.033	35.361	194.0	8.960	3900.0	2.545	34.910	241.9	2.207
700.0	8.828	35.392	194.3	8.750	3950.0	2.538	34.909	241.5	2.195
750.0	8.502	35.393	196.4	8.420	4000.0	2.536	34.908	241.3	2.187
800.0	8.113	35.360	200.3	8.027	4050.0	2.540	34.908	241.2	2.185
850.0	7.438	35.274	207.5	7.351	4100.0	2.543	34.908	241.2	2.182
900.0	7.025	35.245	214.1	6.936	4150.0	2.550	34.908	241.1	2.182
950.0	6.711	35.233	220.1	6.619	4200.0	2.551	34.907	241.1	2.178
1000.0	6.453	35.214	224.9	6.357	4250.0	2.554	34.907	241.1	2.175
1050.0	6.078	35.175	231.4	5.981	4300.0	2.549	34.906	241.0	2.165
1100.0	5.728	35.132	237.5	5.628	4350.0	2.552	34.906	241.1	2.161
1150.0	5.259	35.068	245.8	5.159	4400.0	2.556	34.906	241.2	2.160
1200.0	4.980	35.038	251.4	4.877	4450.0	2.559	34.905	241.2	2.155
1250.0	4.800	35.018	255.0	4.694	4500.0	2.561	34.905	241.3	2.152
1300.0	4.705	35.008	257.0	4.596	4550.0	2.562	34.904	241.4	2.147
1350.0	4.480	34.981	261.5	4.368	4570.0	2.563	34.904	241.3	2.145
1400.0	4.309	34.961	265.1	4.195					
1450.0	4.180	34.946	267.1	4.063					
1500.0	4.118	34.943	267.9	3.997					
1550.0	4.036	34.936	269.0	3.911					
1600.0	4.004	34.937	268.6	3.875					
1650.0	3.927	34.933	269.0	3.794					
1700.0	3.893	34.933	268.7	3.756					
1750.0	3.863	34.934	268.3	3.722					
1800.0	3.797	34.932	268.5	3.652					
1850.0	3.764	34.932	268.4	3.614					
1900.0	3.716	34.933	268.2	3.562					
1950.0	3.657	34.931	268.7	3.500					
2000.0	3.589	34.927	269.3	3.427					
2050.0	3.526	34.928	269.5	3.361					
2100.0	3.493	34.930	269.4	3.324					
2150.0	3.424	34.926	270.0	3.251					
2200.0	3.392	34.929	269.3	3.214					
2250.0	3.370	34.935	267.9	3.188					
2300.0	3.335	34.942	265.5	3.149					
2350.0	3.276	34.940	265.8	3.086					
2400.0	3.265	34.945	263.7	3.070					
2450.0	3.254	34.949	261.9	3.054					
2500.0	3.185	34.945	262.0	2.982					
2550.0	3.141	34.944	262.2	2.933					
2600.0	3.089	34.942	262.0	2.878					
2650.0	3.045	34.943	261.0	2.829					
2700.0	3.012	34.942	260.5	2.792					
2750.0	2.978	34.942	259.6	2.753					
2800.0	2.944	34.941	258.9	2.715					
2850.0	2.921	34.941	258.2	2.687					
2900.0	2.876	34.940	256.9	2.638					
2950.0	2.854	34.939	256.0	2.612					
3000.0	2.822	34.938	254.6	2.576					



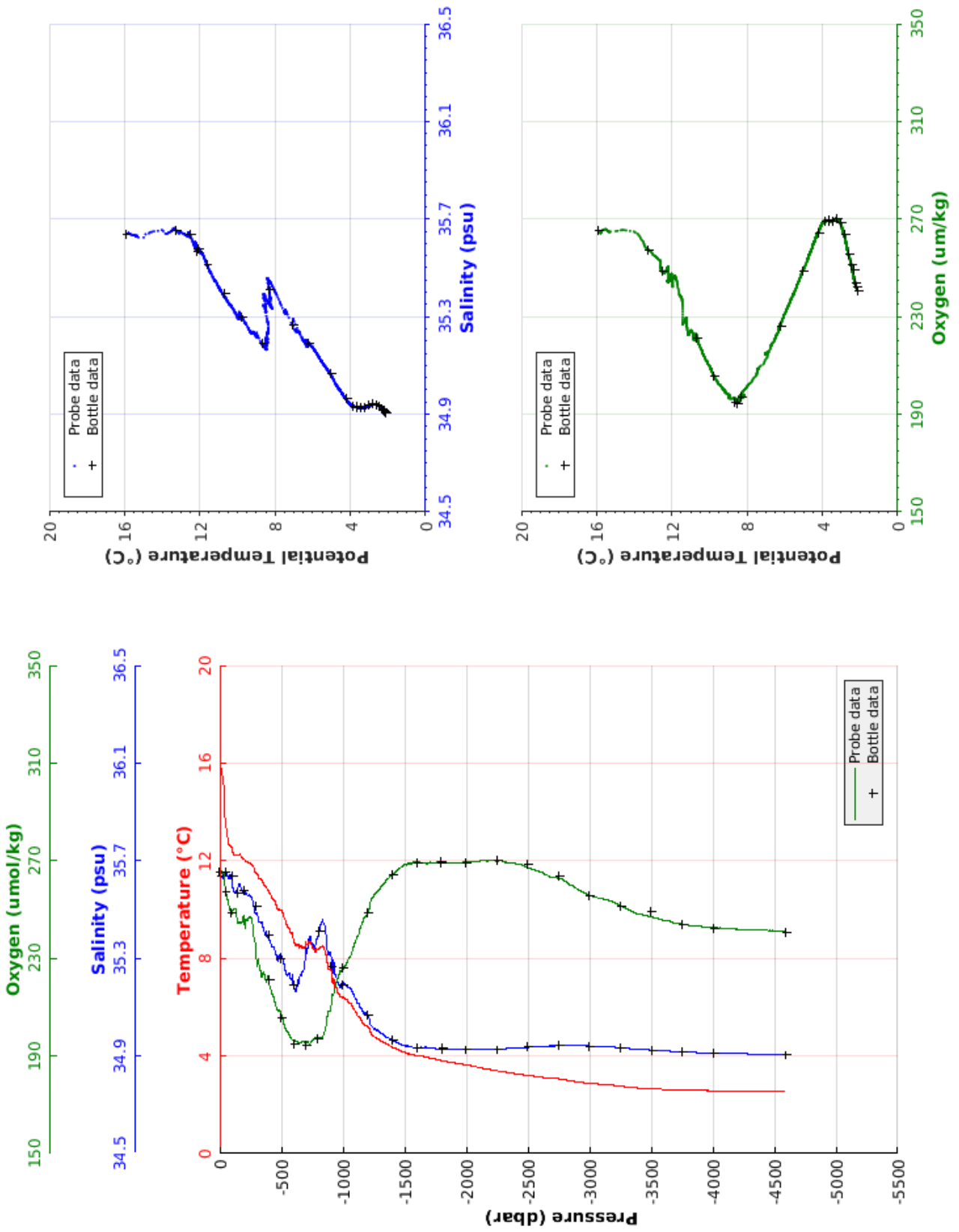
Station: 34

```

-----
| Cruise      : OVIDE 2018
| Station    : 35          Cast      : 1
| Date       : 24/06/2018   Ship       : N/O THALASSA
| Depth      : 4514 m      Organism  : IPREMER
| Position   : N 47 17.39
|             W 020 15.81
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.793	35.642	264.3	15.793	3050.0	2.859	34.940	255.1	2.606
10.0	15.778	35.641	264.4	15.776	3100.0	2.841	34.939	254.5	2.583
20.0	15.506	35.633	265.8	15.503	3150.0	2.824	34.938	253.9	2.561
30.0	15.326	35.631	264.7	15.322	3200.0	2.788	34.936	252.8	2.521
40.0	13.951	35.651	264.5	13.945	3250.0	2.756	34.933	251.6	2.484
50.0	13.467	35.655	259.1	13.460	3300.0	2.734	34.932	250.4	2.457
100.0	12.449	35.619	247.9	12.436	3350.0	2.700	34.929	249.1	2.419
150.0	12.225	35.590	244.8	12.205	3400.0	2.683	34.927	248.1	2.396
200.0	12.049	35.574	247.6	12.022	3450.0	2.678	34.926	247.7	2.386
250.0	11.866	35.554	246.7	11.833	3500.0	2.663	34.924	247.1	2.367
300.0	11.463	35.479	232.9	11.424	3550.0	2.646	34.922	246.4	2.344
350.0	11.119	35.434	222.8	11.075	3600.0	2.632	34.921	245.6	2.326
400.0	10.698	35.379	221.5	10.649	3650.0	2.626	34.920	245.2	2.314
450.0	10.303	35.333	212.8	10.249	3700.0	2.606	34.917	244.4	2.288
500.0	9.963	35.317	207.9	9.904	3750.0	2.593	34.916	243.8	2.270
550.0	9.300	35.231	200.0	9.237	3800.0	2.592	34.915	243.6	2.264
600.0	8.737	35.184	196.5	8.672	3850.0	2.589	34.915	243.4	2.256
650.0	8.476	35.212	195.6	8.406	3900.0	2.583	34.914	243.1	2.244
700.0	8.709	35.347	195.1	8.631	3950.0	2.580	34.913	242.8	2.236
750.0	8.473	35.361	196.1	8.392	4000.0	2.578	34.912	242.7	2.228
800.0	8.365	35.390	197.5	8.278	4050.0	2.579	34.912	242.4	2.223
850.0	8.358	35.443	198.9	8.265	4100.0	2.575	34.911	242.2	2.213
900.0	7.544	35.325	208.3	7.451	4150.0	2.574	34.910	242.1	2.206
950.0	6.687	35.216	219.5	6.595	4200.0	2.575	34.910	241.9	2.201
1000.0	6.438	35.205	225.1	6.343	4250.0	2.575	34.909	241.9	2.196
1050.0	6.157	35.178	229.9	6.059	4300.0	2.575	34.908	241.7	2.189
1100.0	5.802	35.138	236.3	5.702	4350.0	2.575	34.908	241.6	2.183
1150.0	5.449	35.097	243.0	5.347	4400.0	2.573	34.907	241.5	2.176
1200.0	5.174	35.068	248.1	5.070	4450.0	2.572	34.906	241.4	2.169
1250.0	4.812	35.015	255.3	4.706	4500.0	2.572	34.906	241.4	2.163
1300.0	4.649	34.997	258.4	4.540	4550.0	2.576	34.906	241.3	2.160
1350.0	4.515	34.980	261.4	4.403	4593.0	2.578	34.905	241.3	2.157
1400.0	4.369	34.966	264.2	4.254					
1450.0	4.249	34.953	266.2	4.131					
1500.0	4.145	34.942	268.2	4.023					
1550.0	4.080	34.938	268.8	3.955					
1600.0	4.008	34.933	269.5	3.879					
1650.0	3.981	34.935	269.1	3.847					
1700.0	3.923	34.931	269.2	3.785					
1750.0	3.867	34.930	269.2	3.726					
1800.0	3.813	34.929	269.1	3.667					
1850.0	3.761	34.928	269.1	3.611					
1900.0	3.722	34.928	269.1	3.568					
1950.0	3.674	34.927	269.2	3.516					
2000.0	3.636	34.927	269.4	3.474					
2050.0	3.585	34.926	269.6	3.419					
2100.0	3.532	34.926	269.7	3.362					
2150.0	3.482	34.927	270.0	3.308					
2200.0	3.441	34.927	270.0	3.262					
2250.0	3.404	34.928	269.9	3.222					
2300.0	3.357	34.929	269.7	3.171					
2350.0	3.320	34.931	269.2	3.129					
2400.0	3.271	34.932	269.0	3.076					
2450.0	3.240	34.933	268.4	3.041					
2500.0	3.201	34.935	267.1	2.997					
2550.0	3.167	34.937	266.3	2.959					
2600.0	3.135	34.939	265.4	2.922					
2650.0	3.106	34.940	264.2	2.889					
2700.0	3.087	34.941	263.3	2.865					
2750.0	3.060	34.941	262.8	2.834					
2800.0	3.023	34.942	261.6	2.793					
2850.0	2.977	34.942	260.0	2.742					
2900.0	2.937	34.942	258.4	2.698					
2950.0	2.907	34.942	257.1	2.663					
3000.0	2.878	34.940	255.9	2.630					



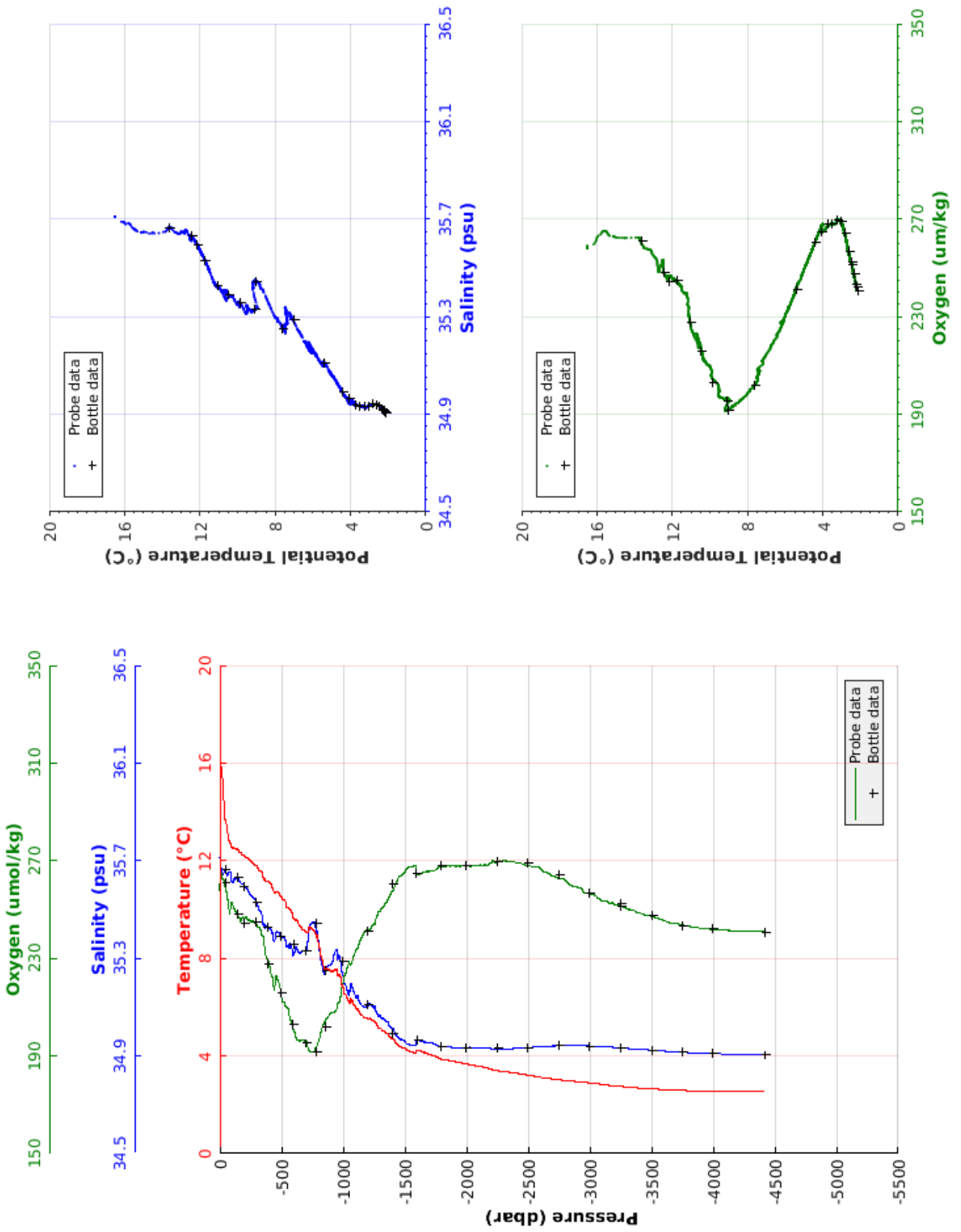
Station: 35

```

-----
| Cruise      : OVIDE 2018
| Station    : 36          Cast      : 1
| Date       : 24/06/2018   Ship     : N/O THALASSA
| Depth      : 4352 m      Organism : IFREMER
| Position   : N 47 39.99
|             W 020 33.23
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	16.508	35.711	258.0	16.508	3050.0	2.866	34.940	255.6	2.613
10.0	15.935	35.679	263.1	15.933	3100.0	2.830	34.938	253.6	2.573
20.0	15.414	35.654	263.8	15.411	3150.0	2.796	34.936	253.1	2.534
30.0	14.569	35.642	262.2	14.564	3200.0	2.769	34.934	252.3	2.502
40.0	13.731	35.662	261.6	13.726	3250.0	2.754	34.933	251.7	2.482
50.0	13.548	35.664	258.9	13.541	3300.0	2.723	34.931	250.3	2.447
100.0	12.516	35.614	253.2	12.502	3350.0	2.701	34.929	249.7	2.420
150.0	12.438	35.630	247.6	12.418	3400.0	2.686	34.927	248.6	2.400
200.0	12.174	35.595	246.7	12.147	3450.0	2.669	34.926	247.8	2.378
250.0	11.975	35.563	245.7	11.942	3500.0	2.655	34.924	247.3	2.358
300.0	11.778	35.533	244.2	11.739	3550.0	2.641	34.922	246.4	2.339
350.0	11.362	35.452	239.6	11.317	3600.0	2.618	34.920	245.4	2.312
400.0	11.127	35.426	229.0	11.077	3650.0	2.603	34.918	244.5	2.292
450.0	10.673	35.375	217.4	10.618	3700.0	2.599	34.917	244.3	2.282
500.0	10.484	35.385	215.8	10.423	3750.0	2.584	34.915	243.6	2.262
550.0	10.083	35.352	209.8	10.018	3800.0	2.575	34.914	243.1	2.247
600.0	9.596	35.313	201.1	9.526	3850.0	2.568	34.913	242.8	2.235
650.0	9.300	35.323	196.3	9.226	3900.0	2.556	34.911	242.4	2.218
700.0	9.076	35.333	196.0	8.997	3950.0	2.554	34.910	242.1	2.210
750.0	9.204	35.443	191.5	9.118	4000.0	2.549	34.909	241.8	2.200
800.0	8.561	35.376	195.0	8.473	4050.0	2.548	34.909	241.6	2.193
850.0	7.562	35.236	203.7	7.475	4100.0	2.545	34.908	241.5	2.184
900.0	7.473	35.273	207.3	7.381	4150.0	2.544	34.907	241.3	2.177
950.0	7.543	35.335	208.6	7.445	4200.0	2.542	34.906	241.1	2.169
1000.0	6.796	35.235	218.8	6.698	4250.0	2.542	34.906	241.0	2.163
1050.0	6.188	35.152	227.9	6.090	4300.0	2.546	34.905	240.9	2.161
1100.0	5.996	35.148	232.3	5.894	4350.0	2.548	34.905	241.1	2.157
1150.0	5.665	35.108	238.2	5.561	4400.0	2.546	34.904	241.1	2.149
1200.0	5.519	35.102	241.8	5.411	4425.0	2.547	34.904	240.9	2.147
1250.0	5.400	35.096	244.1	5.288					
1300.0	5.149	35.068	249.0	5.035					
1350.0	4.936	35.043	252.9	4.819					
1400.0	4.691	35.010	257.4	4.573					
1450.0	4.431	34.975	262.7	4.311					
1500.0	4.308	34.961	265.0	4.184					
1550.0	4.181	34.946	267.5	4.054					
1600.0	4.238	34.966	265.1	4.106					
1650.0	4.152	34.959	265.1	4.016					
1700.0	4.069	34.955	265.5	3.929					
1750.0	3.971	34.948	266.1	3.828					
1800.0	3.869	34.937	268.0	3.722					
1850.0	3.826	34.936	267.8	3.675					
1900.0	3.774	34.935	267.8	3.620					
1950.0	3.723	34.935	267.7	3.564					
2000.0	3.669	34.934	267.9	3.506					
2050.0	3.616	34.934	268.0	3.450					
2100.0	3.583	34.933	268.1	3.412					
2150.0	3.517	34.932	268.2	3.343					
2200.0	3.451	34.930	268.9	3.273					
2250.0	3.406	34.929	269.4	3.224					
2300.0	3.357	34.928	269.9	3.171					
2350.0	3.326	34.929	269.6	3.135					
2400.0	3.291	34.931	269.3	3.095					
2450.0	3.257	34.933	268.8	3.057					
2500.0	3.216	34.935	267.9	3.012					
2550.0	3.174	34.936	267.4	2.966					
2600.0	3.124	34.938	267.0	2.912					
2650.0	3.101	34.939	265.2	2.885					
2700.0	3.057	34.941	263.7	2.836					
2750.0	3.026	34.942	262.7	2.801					
2800.0	3.004	34.942	262.3	2.774					
2850.0	2.969	34.942	260.0	2.735					
2900.0	2.941	34.942	259.2	2.702					
2950.0	2.917	34.942	257.3	2.674					
3000.0	2.884	34.941	256.4	2.636					



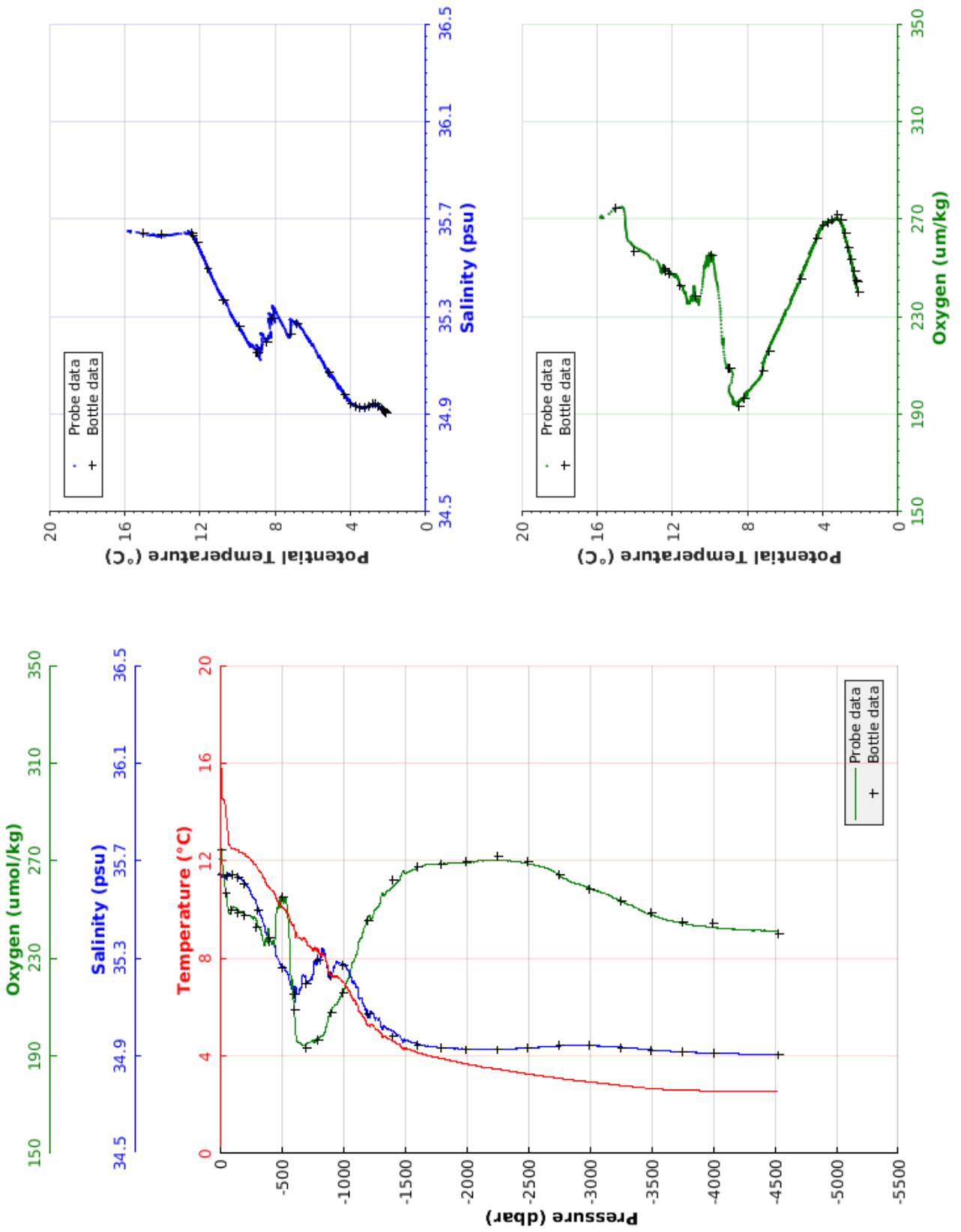
Station: 36


```

-----
| Cruise      : OVIDE 2018
| Station     : 37          Cast      : 1
| Date        : 24/06/2018   Ship       : N/O THALASSA
| Depth       : 4455 m       Organism  : IFREMER
| Position    : N 48 2.28
|              W 020 50.93
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.691	35.649	270.6	15.691	3050.0	2.908	34.941	257.7	2.654
10.0	15.815	35.651	270.8	15.813	3100.0	2.881	34.940	256.9	2.623
20.0	14.565	35.634	273.7	14.562	3150.0	2.850	34.939	256.0	2.587
30.0	14.487	35.636	267.7	14.483	3200.0	2.813	34.937	254.6	2.546
40.0	14.398	35.634	262.0	14.392	3250.0	2.792	34.936	253.5	2.520
50.0	14.051	35.633	258.8	14.043	3300.0	2.765	34.934	252.4	2.488
100.0	12.507	35.641	249.6	12.494	3350.0	2.739	34.932	251.4	2.457
150.0	12.428	35.638	249.9	12.407	3400.0	2.716	34.929	250.1	2.429
200.0	12.267	35.613	248.9	12.241	3450.0	2.687	34.927	248.6	2.396
250.0	12.065	35.579	247.5	12.032	3500.0	2.673	34.925	247.9	2.376
300.0	11.760	35.526	246.1	11.721	3550.0	2.649	34.923	246.9	2.347
350.0	11.331	35.449	239.7	11.287	3600.0	2.632	34.921	246.1	2.325
400.0	10.899	35.384	242.4	10.850	3650.0	2.620	34.919	245.4	2.308
450.0	10.632	35.353	235.5	10.576	3700.0	2.610	34.918	245.0	2.293
500.0	10.109	35.269	253.1	10.049	3750.0	2.602	34.917	244.5	2.280
550.0	9.853	35.242	251.3	9.789	3800.0	2.591	34.915	243.9	2.263
600.0	9.304	35.184	214.3	9.236	3850.0	2.583	34.914	243.5	2.250
650.0	8.826	35.170	195.3	8.754	3900.0	2.580	34.913	243.2	2.241
700.0	8.730	35.225	194.2	8.653	3950.0	2.576	34.912	242.9	2.231
750.0	8.315	35.215	196.0	8.235	4000.0	2.573	34.912	242.7	2.222
800.0	8.312	35.299	196.5	8.226	4050.0	2.569	34.911	242.4	2.213
850.0	8.117	35.332	199.2	8.026	4100.0	2.567	34.910	242.2	2.205
900.0	7.310	35.224	207.6	7.219	4150.0	2.566	34.909	242.0	2.199
950.0	7.304	35.289	211.0	7.208	4200.0	2.566	34.909	241.8	2.193
1000.0	6.994	35.268	216.2	6.894	4250.0	2.564	34.908	241.6	2.184
1050.0	6.665	35.248	222.2	6.562	4300.0	2.563	34.907	241.5	2.177
1100.0	6.206	35.192	230.1	6.103	4350.0	2.562	34.907	241.5	2.171
1150.0	5.742	35.136	238.0	5.637	4400.0	2.560	34.906	241.4	2.163
1200.0	5.223	35.057	246.8	5.119	4450.0	2.558	34.905	241.3	2.155
1250.0	5.191	35.068	248.0	5.081	4500.0	2.556	34.904	241.1	2.147
1300.0	4.973	35.044	252.2	4.861	4529.0	2.558	34.904	241.2	2.145
1350.0	4.743	35.014	256.7	4.628					
1400.0	4.630	35.004	259.0	4.512					
1450.0	4.476	34.985	261.7	4.355					
1500.0	4.339	34.969	264.9	4.215					
1550.0	4.237	34.958	265.9	4.109					
1600.0	4.141	34.949	267.1	4.010					
1650.0	4.071	34.944	267.8	3.936					
1700.0	3.991	34.937	268.7	3.853					
1750.0	3.950	34.936	268.7	3.807					
1800.0	3.896	34.935	268.7	3.749					
1850.0	3.835	34.933	268.8	3.684					
1900.0	3.782	34.931	269.0	3.628					
1950.0	3.725	34.930	269.1	3.567					
2000.0	3.668	34.930	269.3	3.506					
2050.0	3.627	34.929	269.4	3.460					
2100.0	3.576	34.927	270.0	3.405					
2150.0	3.528	34.927	270.1	3.354					
2200.0	3.497	34.927	270.3	3.318					
2250.0	3.461	34.927	270.2	3.278					
2300.0	3.423	34.928	270.1	3.236					
2350.0	3.382	34.929	269.9	3.190					
2400.0	3.339	34.930	269.6	3.143					
2450.0	3.294	34.932	269.3	3.094					
2500.0	3.260	34.933	268.7	3.055					
2550.0	3.230	34.934	268.2	3.020					
2600.0	3.182	34.936	267.5	2.969					
2650.0	3.152	34.938	266.8	2.934					
2700.0	3.122	34.939	265.9	2.899					
2750.0	3.093	34.941	264.2	2.866					
2800.0	3.055	34.942	262.6	2.824					
2850.0	3.020	34.942	261.2	2.785					
2900.0	2.990	34.942	260.6	2.750					
2950.0	2.967	34.942	259.8	2.722					
3000.0	2.934	34.942	258.8	2.685					



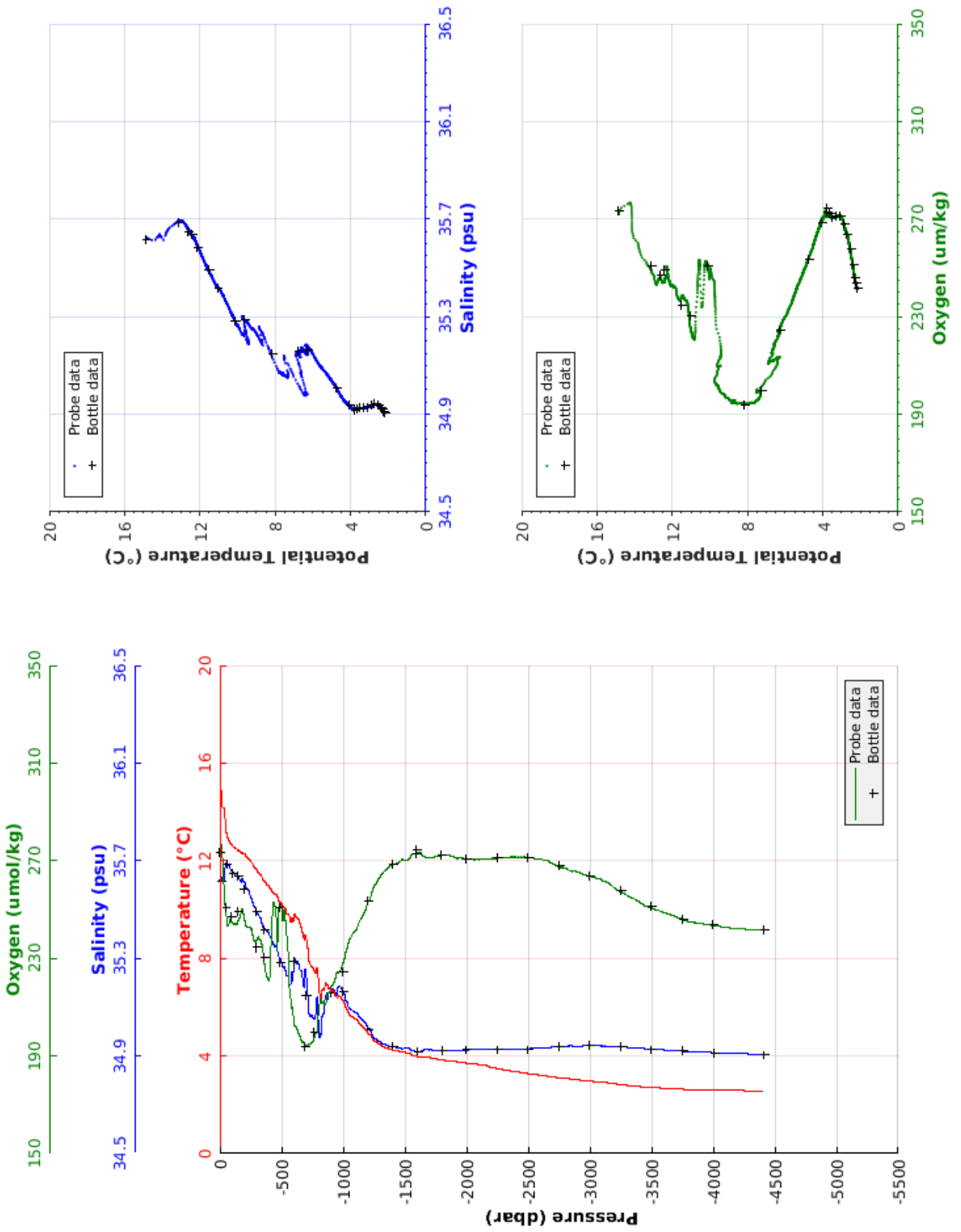
Station: 37

```

-----
| Cruise      : OVIDE 2018
| Station    : 38          Cast      : 1
| Date       : 25/06/2018   Ship       : N/O THALASSA
| Depth      : 4372 m      Organism  : IFREMER
| Position   : N 48 24.74
|             W 021 8.49
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	14.838	35.622	272.3	14.838	3050.0	2.946	34.941	263.0	2.691
10.0	14.838	35.621	272.1	14.837	3100.0	2.918	34.941	261.9	2.658
20.0	14.229	35.627	276.6	14.226	3150.0	2.898	34.941	260.8	2.633
30.0	14.148	35.636	268.0	14.143	3200.0	2.859	34.939	258.9	2.590
40.0	13.793	35.643	258.7	13.788	3250.0	2.829	34.938	257.3	2.556
50.0	13.241	35.686	250.5	13.234	3300.0	2.799	34.936	255.9	2.521
100.0	12.619	35.657	245.4	12.606	3350.0	2.778	34.934	254.6	2.495
150.0	12.412	35.630	245.1	12.392	3400.0	2.751	34.932	253.4	2.463
200.0	12.268	35.612	247.6	12.241	3450.0	2.724	34.930	251.5	2.431
250.0	11.977	35.557	242.7	11.945	3500.0	2.709	34.928	250.6	2.411
300.0	11.631	35.498	237.0	11.592	3550.0	2.694	34.927	249.7	2.391
350.0	11.207	35.431	234.5	11.163	3600.0	2.678	34.925	248.7	2.370
400.0	10.929	35.403	221.3	10.880	3650.0	2.667	34.923	247.9	2.353
450.0	10.595	35.349	251.4	10.540	3700.0	2.653	34.922	247.1	2.335
500.0	10.231	35.288	252.3	10.171	3750.0	2.637	34.920	246.0	2.313
550.0	9.796	35.227	238.7	9.732	3800.0	2.621	34.918	245.1	2.292
600.0	9.692	35.257	207.5	9.622	3850.0	2.619	34.917	244.6	2.284
650.0	9.396	35.256	198.4	9.322	3900.0	2.614	34.916	244.3	2.274
700.0	8.842	35.243	194.6	8.764	3950.0	2.608	34.915	243.8	2.262
750.0	7.660	35.066	195.2	7.584	4000.0	2.599	34.914	243.3	2.248
800.0	7.100	35.055	204.2	7.021	4050.0	2.597	34.913	243.1	2.241
850.0	6.787	35.095	212.0	6.705	4100.0	2.592	34.912	242.8	2.230
900.0	6.733	35.165	216.9	6.646	4150.0	2.586	34.911	242.4	2.217
950.0	6.380	35.146	223.7	6.290	4200.0	2.584	34.910	242.2	2.210
1000.0	6.247	35.167	227.8	6.153	4250.0	2.579	34.909	242.0	2.199
1050.0	5.702	35.097	236.8	5.608	4300.0	2.573	34.908	241.6	2.187
1100.0	5.507	35.079	241.0	5.410	4350.0	2.573	34.908	241.5	2.181
1150.0	5.246	35.052	246.1	5.145	4400.0	2.573	34.907	241.6	2.175
1200.0	4.955	35.020	252.2	4.853	4410.0	2.572	34.907	241.6	2.174
1250.0	4.626	34.975	259.0	4.523					
1300.0	4.460	34.958	263.1	4.353					
1350.0	4.334	34.946	266.1	4.224					
1400.0	4.237	34.937	268.4	4.124					
1450.0	4.195	34.933	269.3	4.077					
1500.0	4.151	34.932	269.9	4.029					
1550.0	4.052	34.923	271.5	3.926					
1600.0	3.983	34.918	273.2	3.854					
1650.0	3.975	34.924	272.0	3.842					
1700.0	3.932	34.925	271.2	3.794					
1750.0	3.877	34.922	271.8	3.735					
1800.0	3.839	34.921	272.1	3.693					
1850.0	3.801	34.920	272.3	3.651					
1900.0	3.773	34.922	271.6	3.618					
1950.0	3.732	34.923	271.3	3.574					
2000.0	3.705	34.924	270.7	3.542					
2050.0	3.679	34.925	270.5	3.511					
2100.0	3.648	34.926	270.5	3.476					
2150.0	3.608	34.926	270.5	3.432					
2200.0	3.527	34.926	270.8	3.347					
2250.0	3.484	34.926	270.9	3.300					
2300.0	3.429	34.926	271.3	3.241					
2350.0	3.389	34.927	271.3	3.197					
2400.0	3.356	34.927	271.5	3.160					
2450.0	3.321	34.929	271.5	3.120					
2500.0	3.278	34.930	271.4	3.073					
2550.0	3.232	34.930	270.9	3.023					
2600.0	3.211	34.931	270.6	2.998					
2650.0	3.174	34.933	270.1	2.956					
2700.0	3.139	34.936	268.8	2.917					
2750.0	3.106	34.939	267.5	2.879					
2800.0	3.082	34.939	266.9	2.850					
2850.0	3.052	34.941	265.6	2.816					
2900.0	3.023	34.940	265.5	2.782					
2950.0	2.994	34.941	264.5	2.749					
3000.0	2.972	34.941	263.6	2.722					



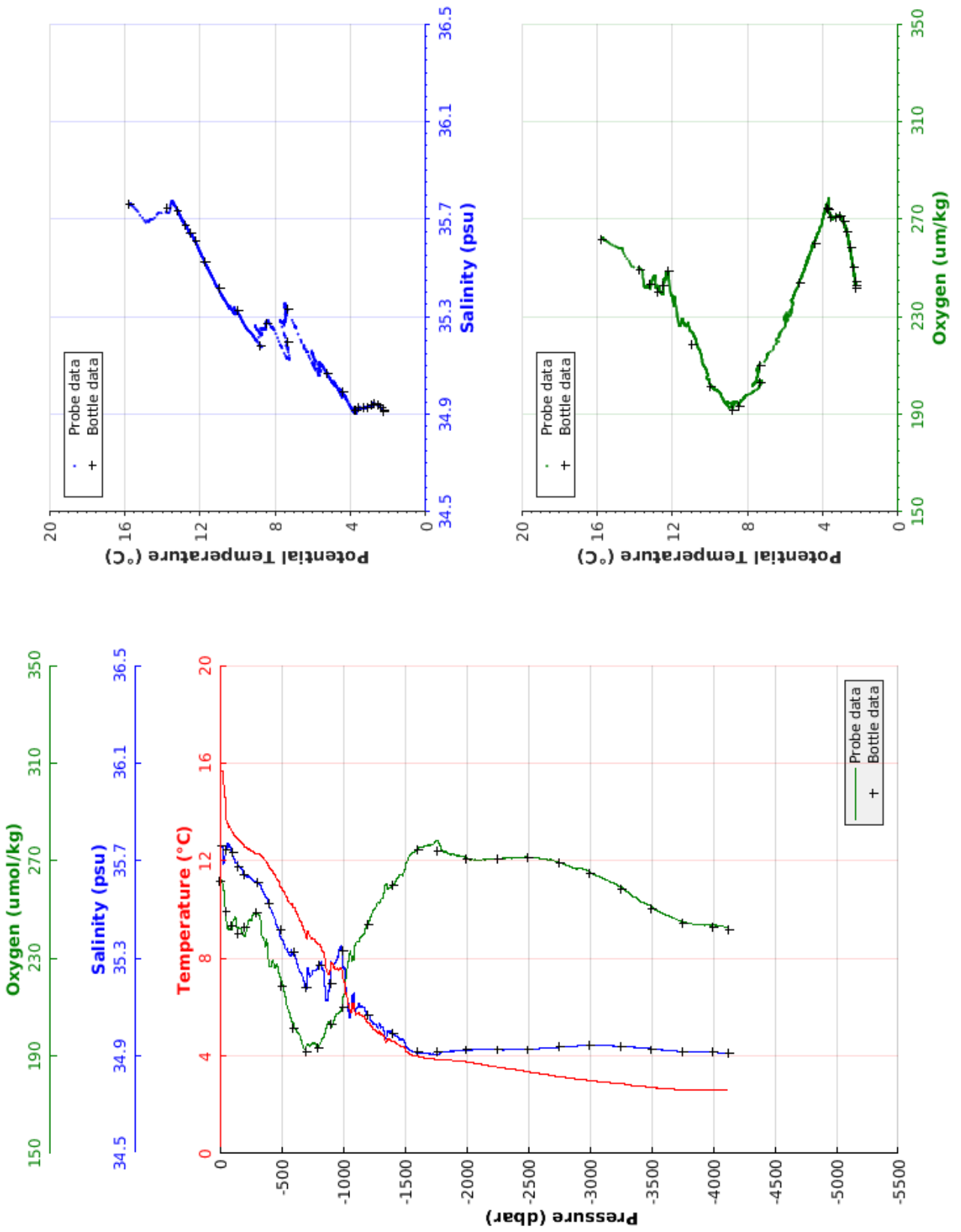
Station: 38

```

-----
| Cruise      : OVIDE 2018
| Station    : 39          Cast      : 1
| Date       : 25/06/2018   Ship     : N/O THALASSA
| Depth      : 4061 m      Organism : IFREMER
| Position   : N 48 47.13
|             W 021 25.83
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.669	35.760	262.2	15.669	3050.0	2.962	34.942	264.0	2.707
10.0	15.672	35.760	262.0	15.670	3100.0	2.934	34.942	263.0	2.674
20.0	15.659	35.760	261.8	15.656	3150.0	2.920	34.942	261.9	2.655
30.0	15.299	35.730	259.8	15.294	3200.0	2.889	34.941	260.7	2.620
40.0	14.656	35.697	257.8	14.650	3250.0	2.873	34.940	259.4	2.598
50.0	14.053	35.724	250.3	14.045	3300.0	2.828	34.938	257.5	2.549
100.0	13.182	35.735	241.7	13.169	3350.0	2.793	34.936	255.5	2.509
150.0	12.868	35.683	241.9	12.848	3400.0	2.756	34.933	253.8	2.468
200.0	12.586	35.646	239.5	12.559	3450.0	2.741	34.932	252.6	2.448
250.0	12.440	35.633	245.7	12.407	3500.0	2.717	34.929	251.4	2.419
300.0	12.299	35.613	248.5	12.259	3550.0	2.680	34.926	249.5	2.378
350.0	12.111	35.577	238.8	12.065	3600.0	2.666	34.924	248.2	2.358
400.0	11.771	35.517	229.2	11.719	3650.0	2.651	34.922	247.2	2.338
450.0	11.415	35.463	226.6	11.357	3700.0	2.628	34.920	246.0	2.311
500.0	10.876	35.384	221.6	10.814	3750.0	2.609	34.917	244.9	2.286
550.0	10.436	35.337	210.4	10.369	3800.0	2.604	34.916	244.4	2.276
600.0	10.092	35.319	203.7	10.020	3850.0	2.600	34.916	243.9	2.266
650.0	9.537	35.245	198.9	9.462	3900.0	2.603	34.915	243.9	2.264
700.0	8.865	35.178	192.7	8.787	3950.0	2.601	34.914	243.6	2.256
750.0	8.842	35.252	195.1	8.759	4000.0	2.609	34.915	243.7	2.258
800.0	8.581	35.265	193.9	8.493	4050.0	2.602	34.914	243.2	2.246
850.0	8.141	35.245	197.9	8.051	4100.0	2.601	34.913	243.0	2.238
900.0	7.606	35.228	203.2	7.513	4125.0	2.603	34.913	243.0	2.238
950.0	7.530	35.291	206.9	7.432					
1000.0	7.143	35.275	212.2	7.043					
1050.0	6.048	35.107	228.7	5.951					
1100.0	5.699	35.076	235.1	5.600					
1150.0	5.669	35.104	238.5	5.565					
1200.0	5.362	35.067	244.1	5.256					
1250.0	5.072	35.031	249.9	4.964					
1300.0	4.958	35.028	252.6	4.846					
1350.0	4.572	34.972	260.7	4.459					
1400.0	4.600	34.991	260.0	4.483					
1450.0	4.446	34.974	262.9	4.326					
1500.0	4.312	34.958	265.8	4.189					
1550.0	4.071	34.924	272.3	3.946					
1600.0	3.993	34.914	274.4	3.864					
1650.0	3.937	34.911	275.4	3.804					
1700.0	3.897	34.909	276.4	3.760					
1750.0	3.846	34.905	277.7	3.704					
1800.0	3.849	34.915	274.6	3.703					
1850.0	3.838	34.919	272.9	3.687					
1900.0	3.805	34.919	272.5	3.650					
1950.0	3.788	34.921	271.9	3.629					
2000.0	3.759	34.922	271.4	3.596					
2050.0	3.715	34.925	270.5	3.547					
2100.0	3.681	34.926	270.1	3.508					
2150.0	3.625	34.925	270.4	3.449					
2200.0	3.578	34.925	270.6	3.398					
2250.0	3.546	34.925	270.7	3.361					
2300.0	3.500	34.925	271.0	3.311					
2350.0	3.475	34.926	271.1	3.282					
2400.0	3.443	34.926	271.1	3.245					
2450.0	3.402	34.927	271.3	3.199					
2500.0	3.347	34.928	271.5	3.140					
2550.0	3.315	34.929	271.3	3.105					
2600.0	3.270	34.930	270.9	3.055					
2650.0	3.231	34.932	270.5	3.012					
2700.0	3.193	34.934	270.2	2.969					
2750.0	3.148	34.936	269.3	2.920					
2800.0	3.120	34.937	268.5	2.887					
2850.0	3.087	34.939	267.5	2.850					
2900.0	3.051	34.941	266.5	2.809					
2950.0	3.021	34.943	266.5	2.775					
3000.0	2.999	34.943	265.4	2.748					



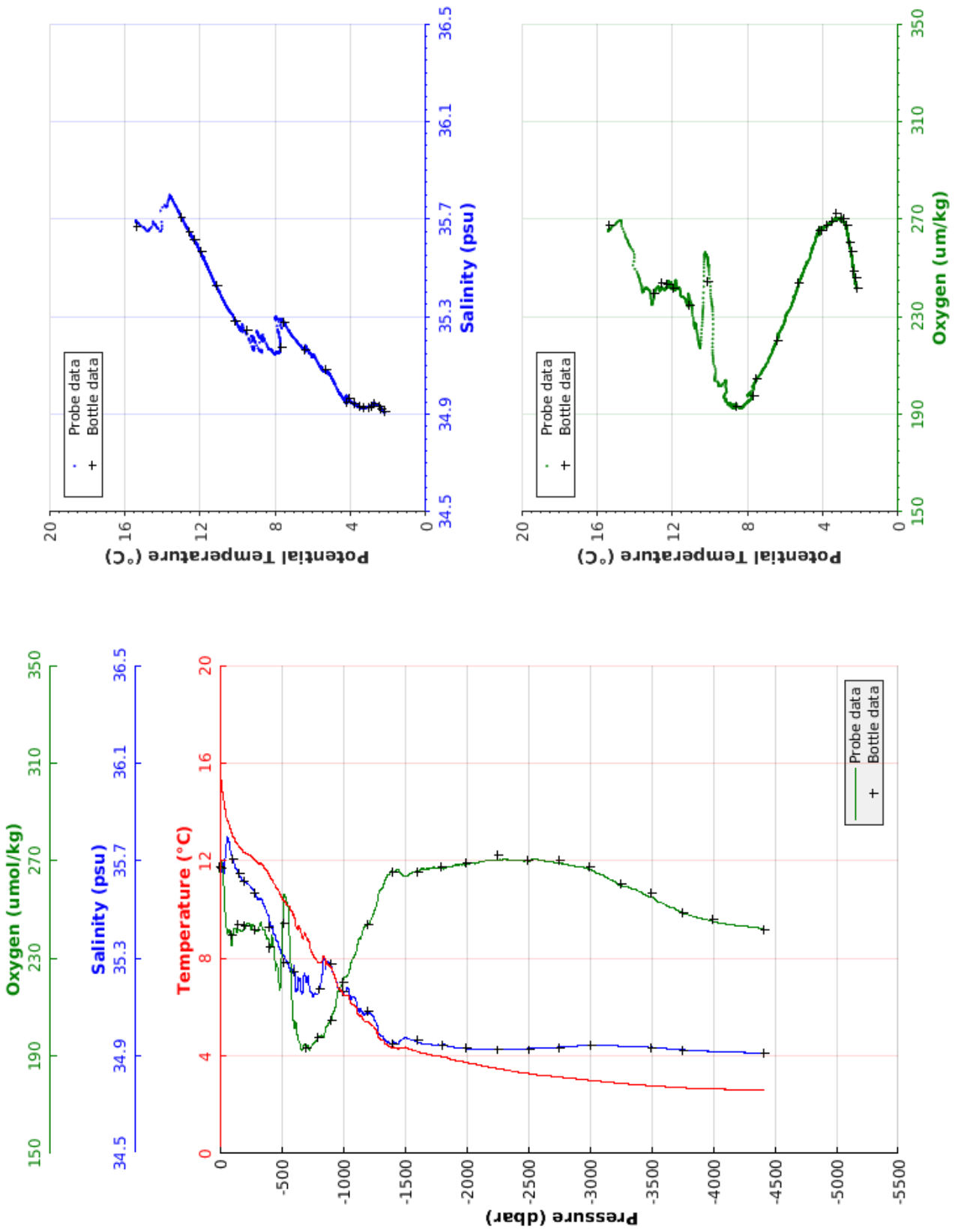
Station: 39

```

-----
| Cruise      : OVIDE 2018
| Station    : 40          Cast      : 1
| Date       : 25/06/2018   Ship     : N/O THALASSA
| Depth      : 4340 m       Organism : IFREMER
| Position   : N 49  9.50
|             W 021 43.44
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.388	35.691	265.3	15.388	3050.0	2.980	34.943	265.1	2.725
10.0	15.306	35.685	265.7	15.305	3100.0	2.953	34.943	264.3	2.693
20.0	14.894	35.658	269.0	14.891	3150.0	2.929	34.942	262.8	2.664
30.0	14.510	35.679	263.8	14.506	3200.0	2.900	34.942	261.4	2.630
40.0	14.251	35.662	258.9	14.245	3250.0	2.873	34.940	259.9	2.599
50.0	13.843	35.753	247.5	13.836	3300.0	2.855	34.941	259.3	2.576
100.0	13.097	35.723	235.0	13.083	3350.0	2.837	34.940	258.4	2.553
150.0	12.614	35.651	241.5	12.593	3400.0	2.817	34.939	257.4	2.527
200.0	12.319	35.610	241.8	12.292	3450.0	2.795	34.937	256.0	2.500
250.0	12.196	35.596	244.0	12.162	3500.0	2.781	34.936	255.0	2.482
300.0	11.944	35.552	241.4	11.904	3550.0	2.757	34.933	253.4	2.452
350.0	11.810	35.533	242.4	11.764	3600.0	2.743	34.931	252.3	2.434
400.0	11.447	35.469	237.9	11.396	3650.0	2.728	34.929	251.1	2.414
450.0	10.996	35.396	231.5	10.940	3700.0	2.709	34.927	250.2	2.389
500.0	10.512	35.326	223.2	10.451	3750.0	2.698	34.925	248.7	2.372
550.0	10.169	35.282	252.9	10.103	3800.0	2.687	34.924	247.8	2.356
600.0	9.801	35.256	205.0	9.730	3850.0	2.675	34.922	247.1	2.339
650.0	9.209	35.207	195.8	9.136	3900.0	2.667	34.921	246.5	2.326
700.0	8.904	35.213	194.0	8.826	3950.0	2.655	34.920	245.8	2.308
750.0	8.240	35.159	194.1	8.160	4000.0	2.646	34.918	245.1	2.294
800.0	7.817	35.154	197.4	7.734	4050.0	2.641	34.917	244.5	2.283
850.0	8.031	35.297	198.3	7.941	4100.0	2.634	34.916	244.1	2.271
900.0	7.600	35.272	204.4	7.507	4150.0	2.629	34.915	243.7	2.260
950.0	6.962	35.201	212.9	6.869	4200.0	2.629	34.915	243.5	2.253
1000.0	6.540	35.163	219.9	6.444	4250.0	2.629	34.914	243.2	2.247
1050.0	6.358	35.161	224.4	6.258	4300.0	2.625	34.913	242.9	2.238
1100.0	6.021	35.138	231.2	5.919	4350.0	2.623	34.912	242.6	2.230
1150.0	5.598	35.086	238.5	5.495	4400.0	2.608	34.911	242.0	2.209
1200.0	5.405	35.078	243.3	5.299	4416.0	2.603	34.910	241.5	2.202
1250.0	5.150	35.055	248.2	5.041					
1300.0	4.680	34.984	257.5	4.571					
1350.0	4.475	34.962	262.5	4.363					
1400.0	4.342	34.951	265.6	4.227					
1450.0	4.285	34.952	266.3	4.167					
1500.0	4.354	34.974	263.7	4.230					
1550.0	4.261	34.966	264.6	4.133					
1600.0	4.181	34.958	265.7	4.049					
1650.0	4.108	34.950	266.7	3.973					
1700.0	4.060	34.948	266.6	3.920					
1750.0	4.011	34.946	267.0	3.868					
1800.0	3.969	34.945	266.9	3.821					
1850.0	3.909	34.941	267.3	3.757					
1900.0	3.832	34.935	267.8	3.677					
1950.0	3.780	34.933	268.3	3.620					
2000.0	3.730	34.931	268.5	3.567					
2050.0	3.674	34.929	268.9	3.507					
2100.0	3.625	34.928	269.2	3.454					
2150.0	3.569	34.926	269.8	3.394					
2200.0	3.527	34.926	270.0	3.347					
2250.0	3.487	34.926	270.3	3.303					
2300.0	3.439	34.926	270.5	3.251					
2350.0	3.400	34.927	270.3	3.208					
2400.0	3.357	34.928	270.2	3.161					
2450.0	3.314	34.929	270.0	3.113					
2500.0	3.285	34.930	269.9	3.080					
2550.0	3.238	34.931	270.6	3.029					
2600.0	3.212	34.932	270.3	2.998					
2650.0	3.193	34.933	269.8	2.974					
2700.0	3.162	34.934	269.5	2.939					
2750.0	3.133	34.936	269.0	2.906					
2800.0	3.110	34.937	268.6	2.878					
2850.0	3.084	34.939	267.9	2.847					
2900.0	3.049	34.940	267.4	2.808					
2950.0	3.034	34.944	267.3	2.788					
3000.0	3.008	34.944	266.5	2.757					



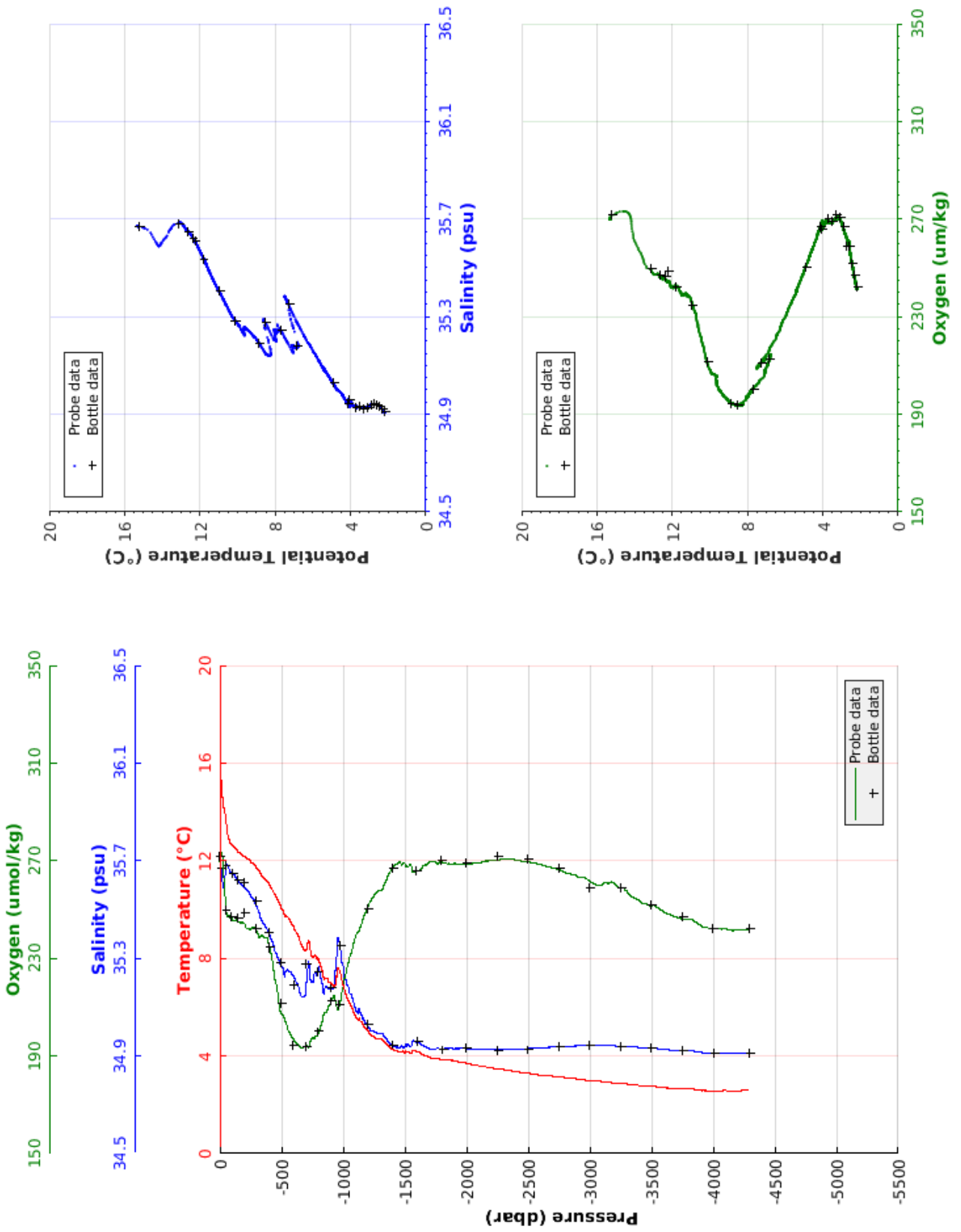
Station: 40


```

-----
| Cruise      : OVIDE 2018
| Station    : 41          Cast      : 1
| Date       : 25/06/2018   Ship     : N/O THALASSA
| Depth      : 4227 m      Organism : IFREMER
| Position   : N 49 31.87
|             W 022 1.17
|-----
  
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	15.320	35.671	269.7	15.320	3050.0	2.966	34.942	260.2	2.711
10.0	15.293	35.670	270.0	15.291	3100.0	2.939	34.942	260.0	2.679
20.0	14.800	35.657	273.0	14.797	3150.0	2.916	34.942	260.7	2.651
30.0	14.207	35.590	270.5	14.203	3200.0	2.892	34.941	260.9	2.623
40.0	14.033	35.602	261.3	14.027	3250.0	2.873	34.940	258.9	2.598
50.0	13.579	35.657	254.3	13.572	3300.0	2.856	34.939	257.6	2.577
100.0	12.646	35.649	246.3	12.633	3350.0	2.821	34.937	255.3	2.537
150.0	12.363	35.619	245.0	12.343	3400.0	2.790	34.935	253.7	2.501
200.0	12.182	35.594	244.2	12.156	3450.0	2.765	34.933	252.3	2.472
250.0	11.980	35.561	241.7	11.947	3500.0	2.747	34.932	251.6	2.449
300.0	11.701	35.514	241.8	11.662	3550.0	2.733	34.930	250.8	2.429
350.0	11.308	35.446	239.5	11.264	3600.0	2.700	34.927	249.2	2.392
400.0	11.030	35.404	236.1	10.980	3650.0	2.679	34.925	248.0	2.366
450.0	10.546	35.330	222.0	10.492	3700.0	2.663	34.923	247.1	2.345
500.0	10.031	35.267	207.9	9.972	3750.0	2.649	34.921	246.1	2.325
550.0	9.709	35.255	202.4	9.645	3800.0	2.655	34.921	246.1	2.325
600.0	9.303	35.228	197.2	9.235	3850.0	2.629	34.918	245.1	2.294
650.0	8.695	35.163	193.8	8.624	3900.0	2.593	34.915	243.5	2.254
700.0	8.325	35.161	194.2	8.250	3950.0	2.576	34.912	242.5	2.231
750.0	8.063	35.205	197.3	7.983	4000.0	2.574	34.912	242.2	2.224
800.0	7.902	35.240	199.1	7.818	4050.0	2.576	34.911	242.0	2.220
850.0	7.112	35.157	207.6	7.027	4100.0	2.582	34.911	242.1	2.220
900.0	6.974	35.175	211.3	6.885	4150.0	2.566	34.909	241.4	2.199
950.0	7.338	35.314	211.2	7.241	4200.0	2.573	34.909	241.4	2.199
1000.0	6.922	35.273	217.1	6.823	4250.0	2.582	34.910	241.5	2.203
1050.0	6.214	35.177	228.4	6.115	4296.0	2.591	34.910	241.8	2.205
1100.0	5.631	35.098	238.1	5.532					
1150.0	5.372	35.070	243.4	5.271					
1200.0	5.026	35.027	250.3	4.923					
1250.0	4.790	35.000	255.3	4.685					
1300.0	4.683	34.993	257.7	4.574					
1350.0	4.515	34.976	261.1	4.403					
1400.0	4.270	34.944	266.7	4.156					
1450.0	4.167	34.932	269.0	4.049					
1500.0	4.134	34.934	269.3	4.012					
1550.0	4.125	34.938	268.7	3.998					
1600.0	4.158	34.953	265.9	4.027					
1650.0	4.045	34.942	267.6	3.911					
1700.0	3.928	34.929	269.4	3.790					
1750.0	3.898	34.930	269.5	3.756					
1800.0	3.851	34.928	269.6	3.705					
1850.0	3.838	34.931	268.7	3.688					
1900.0	3.782	34.929	268.8	3.627					
1950.0	3.752	34.931	268.4	3.593					
2000.0	3.699	34.930	268.5	3.536					
2050.0	3.649	34.929	268.7	3.482					
2100.0	3.598	34.928	269.2	3.427					
2150.0	3.555	34.925	269.8	3.380					
2200.0	3.509	34.925	270.1	3.330					
2250.0	3.482	34.925	270.1	3.298					
2300.0	3.446	34.925	270.5	3.258					
2350.0	3.412	34.925	270.6	3.220					
2400.0	3.362	34.927	270.2	3.166					
2450.0	3.314	34.928	269.8	3.113					
2500.0	3.281	34.930	269.5	3.076					
2550.0	3.250	34.931	269.2	3.040					
2600.0	3.219	34.933	268.4	3.005					
2650.0	3.192	34.935	267.8	2.973					
2700.0	3.168	34.937	267.0	2.945					
2750.0	3.150	34.938	266.2	2.922					
2800.0	3.103	34.940	265.2	2.871					
2850.0	3.084	34.940	264.5	2.847					
2900.0	3.051	34.941	263.6	2.810					
2950.0	3.028	34.942	263.0	2.782					
3000.0	2.985	34.942	261.6	2.735					





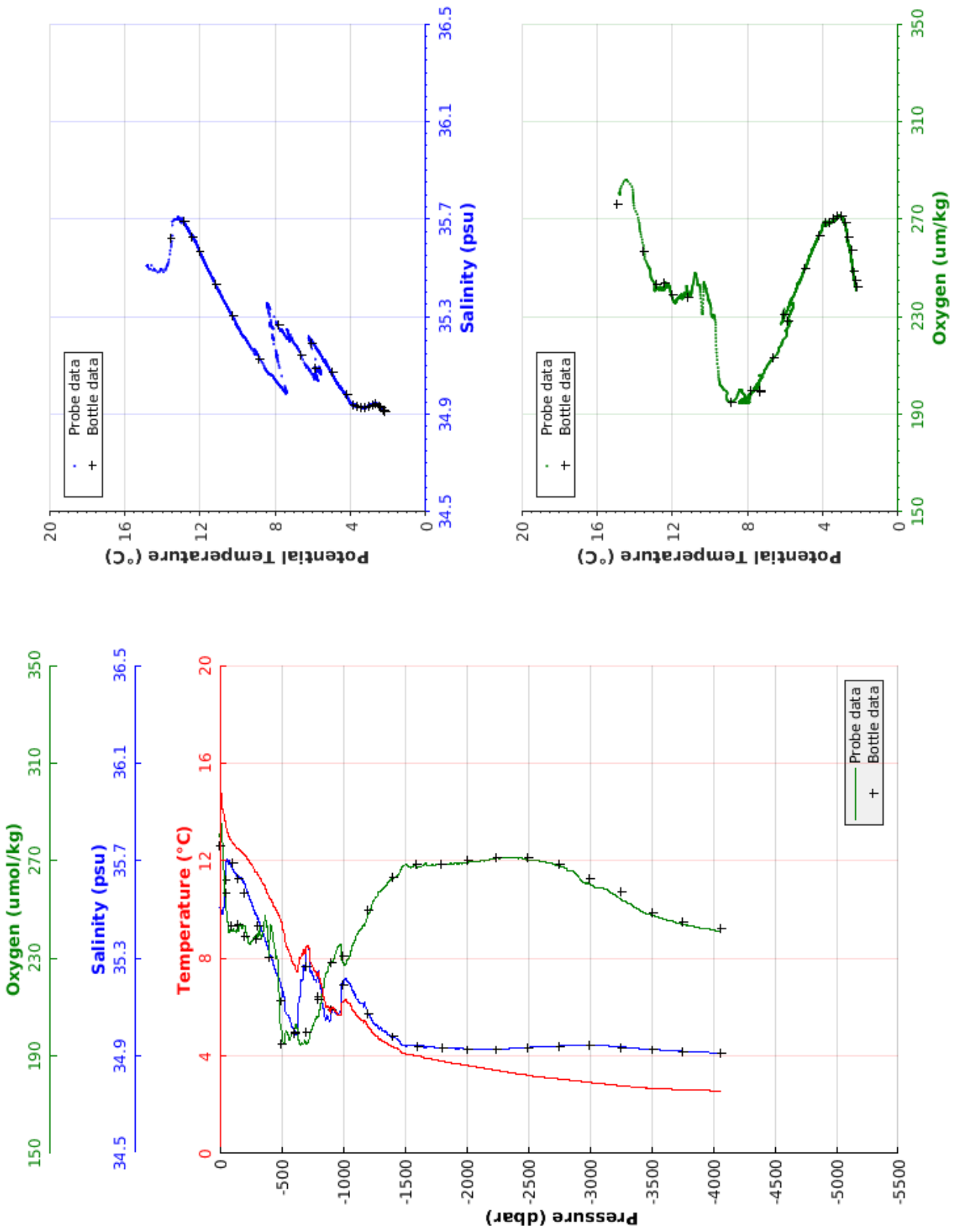
Station: 41

```

-----
| Cruise      : OVIDE 2018
| Station     : 42          Cast      : 1
| Date       : 26/06/2018   Ship     : N/O THALASSA
| Depth      : 4001 m      Organism : IFREMER
| Position   : N 49 54.27
|             W 022 18.66
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	14.798	35.509	280.8	14.798	3050.0	2.876	34.943	258.9	2.622
10.0	14.775	35.507	281.7	14.773	3100.0	2.856	34.943	258.8	2.598
20.0	14.141	35.485	283.3	14.138	3150.0	2.831	34.941	258.1	2.568
30.0	14.025	35.491	274.4	14.021	3200.0	2.804	34.939	256.2	2.536
40.0	13.707	35.516	264.8	13.701	3250.0	2.771	34.937	254.5	2.499
50.0	13.482	35.690	253.8	13.475	3300.0	2.753	34.935	253.1	2.476
100.0	12.747	35.671	241.6	12.734	3350.0	2.730	34.934	251.7	2.449
150.0	12.490	35.639	241.7	12.470	3400.0	2.701	34.930	249.8	2.415
200.0	12.259	35.607	243.2	12.232	3450.0	2.688	34.928	248.5	2.396
250.0	11.877	35.539	235.8	11.844	3500.0	2.673	34.927	247.7	2.377
300.0	11.490	35.476	237.7	11.451	3550.0	2.660	34.926	247.0	2.358
350.0	11.038	35.406	239.0	10.994	3600.0	2.648	34.924	246.2	2.341
400.0	10.503	35.328	236.0	10.454	3650.0	2.638	34.922	245.5	2.326
450.0	10.032	35.256	234.8	9.979	3700.0	2.622	34.920	244.7	2.305
500.0	9.505	35.192	201.9	9.447	3750.0	2.608	34.919	243.9	2.285
550.0	8.372	35.065	199.8	8.314	3800.0	2.605	34.918	243.5	2.277
600.0	7.769	35.013	199.5	7.708	3850.0	2.590	34.916	243.0	2.257
650.0	7.990	35.142	195.1	7.923	3900.0	2.590	34.915	242.3	2.250
700.0	8.395	35.313	195.7	8.320	3950.0	2.588	34.915	242.1	2.243
750.0	7.731	35.245	200.7	7.654	4000.0	2.580	34.913	241.7	2.229
800.0	7.445	35.247	205.7	7.364	4050.0	2.572	34.912	241.2	2.216
850.0	6.248	35.080	219.4	6.169	4064.0	2.572	34.912	241.1	2.214
900.0	5.868	35.055	228.3	5.787					
950.0	5.743	35.073	232.8	5.658					
1000.0	6.226	35.194	228.5	6.132					
1050.0	6.162	35.201	230.1	6.064					
1100.0	5.745	35.148	237.2	5.646					
1150.0	5.473	35.114	242.2	5.371					
1200.0	5.207	35.080	247.0	5.103					
1250.0	4.871	35.034	253.4	4.765					
1300.0	4.677	35.011	257.4	4.568					
1350.0	4.552	34.999	259.4	4.439					
1400.0	4.372	34.978	262.6	4.257					
1450.0	4.277	34.967	264.1	4.159					
1500.0	4.101	34.943	268.2	3.980					
1550.0	4.064	34.945	267.4	3.938					
1600.0	4.018	34.945	267.2	3.888					
1650.0	3.953	34.941	268.0	3.819					
1700.0	3.897	34.938	267.8	3.760					
1750.0	3.839	34.934	268.3	3.698					
1800.0	3.781	34.933	268.4	3.635					
1850.0	3.732	34.931	268.8	3.583					
1900.0	3.691	34.931	268.8	3.538					
1950.0	3.661	34.931	268.8	3.503					
2000.0	3.611	34.929	269.2	3.450					
2050.0	3.568	34.927	269.7	3.402					
2100.0	3.540	34.928	269.5	3.370					
2150.0	3.487	34.926	270.0	3.313					
2200.0	3.445	34.926	270.7	3.267					
2250.0	3.405	34.928	271.1	3.223					
2300.0	3.352	34.929	271.2	3.165					
2350.0	3.322	34.930	271.2	3.131					
2400.0	3.279	34.931	271.2	3.084					
2450.0	3.241	34.933	271.0	3.041					
2500.0	3.209	34.935	270.2	3.006					
2550.0	3.156	34.938	270.2	2.948					
2600.0	3.134	34.938	269.8	2.921					
2650.0	3.110	34.938	269.1	2.893					
2700.0	3.085	34.940	268.8	2.864					
2750.0	3.056	34.941	267.9	2.829					
2800.0	3.037	34.943	267.2	2.806					
2850.0	3.001	34.943	265.7	2.765					
2900.0	2.965	34.943	264.2	2.725					
2950.0	2.935	34.944	261.0	2.691					
3000.0	2.915	34.944	260.4	2.666					



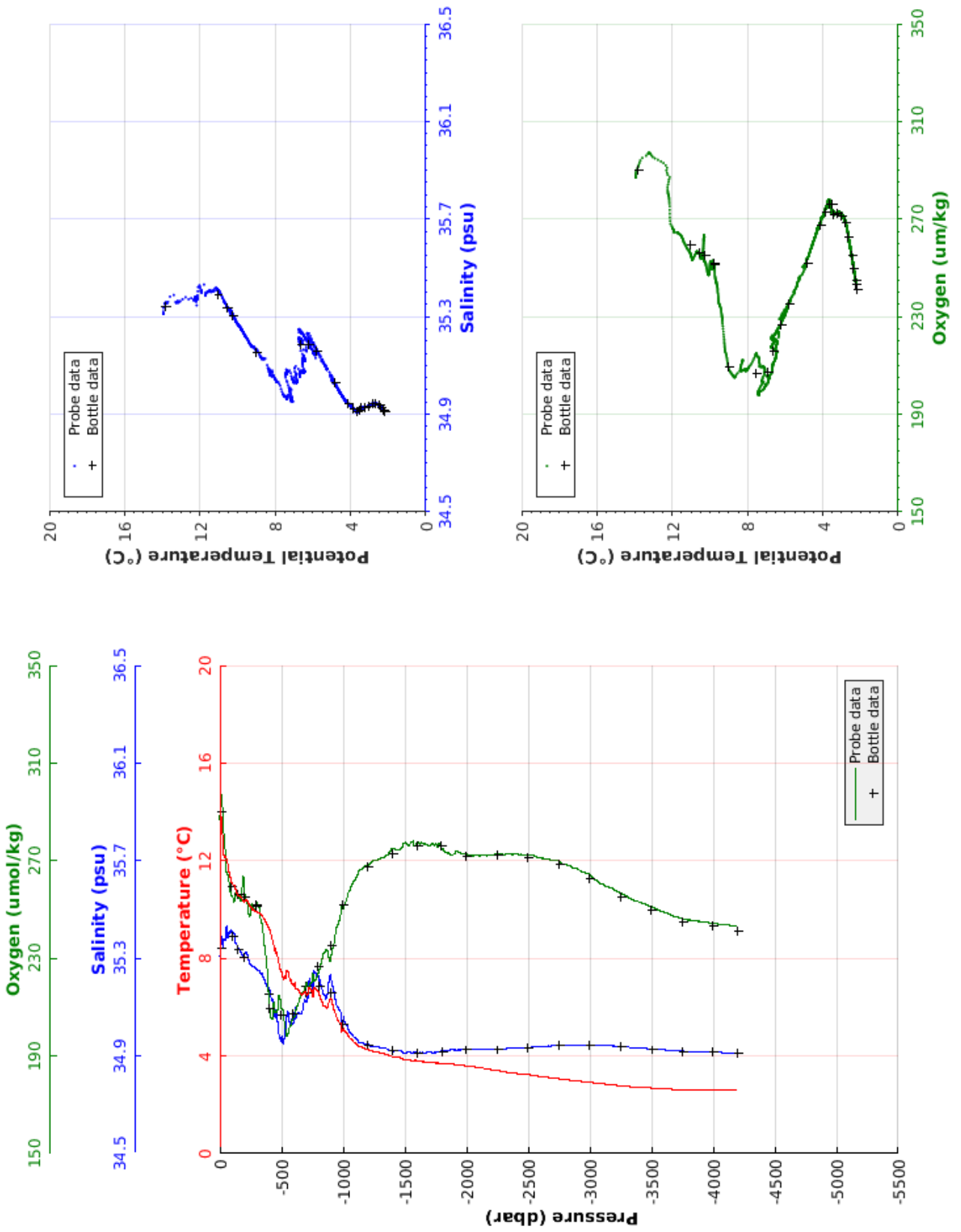
Station: 42

```

-----
| Cruise      : OVIDE 2018
| Station    : 43          Cast      : 1
| Date       : 26/06/2018   Ship       : N/O THALASSA
| Depth      : 4130 m      Organism  : IFREMER
| Position   : N 50 16.62
|             W 022 36.21
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	13.946	35.312	287.1	13.946	3050.0	2.891	34.944	262.0	2.637
10.0	13.808	35.360	291.5	13.807	3100.0	2.865	34.943	260.7	2.607
20.0	13.161	35.357	296.6	13.158	3150.0	2.833	34.942	259.2	2.570
30.0	12.290	35.379	289.0	12.286	3200.0	2.808	34.940	258.2	2.541
40.0	12.228	35.380	280.4	12.223	3250.0	2.783	34.939	256.8	2.510
50.0	12.143	35.381	272.2	12.136	3300.0	2.757	34.937	255.5	2.480
100.0	11.067	35.411	256.1	11.055	3350.0	2.731	34.934	253.9	2.449
150.0	10.582	35.343	256.0	10.564	3400.0	2.715	34.932	253.1	2.428
200.0	10.316	35.305	263.0	10.292	3450.0	2.700	34.931	252.2	2.408
250.0	10.083	35.276	247.6	10.054	3500.0	2.688	34.929	251.3	2.391
300.0	9.908	35.259	251.8	9.873	3550.0	2.672	34.927	250.0	2.370
350.0	9.696	35.229	243.7	9.656	3600.0	2.655	34.925	248.9	2.347
400.0	9.245	35.178	216.2	9.200	3650.0	2.638	34.923	248.0	2.325
450.0	8.403	35.088	208.9	8.356	3700.0	2.626	34.921	247.0	2.308
500.0	7.449	34.964	211.6	7.400	3750.0	2.618	34.920	246.2	2.295
550.0	7.450	35.063	198.2	7.395	3800.0	2.611	34.918	245.6	2.282
600.0	6.868	35.033	205.7	6.811	3850.0	2.605	34.917	245.3	2.271
650.0	6.579	35.070	212.9	6.518	3900.0	2.604	34.917	245.0	2.264
700.0	6.533	35.121	218.3	6.468	3950.0	2.601	34.916	244.8	2.256
750.0	6.720	35.207	220.1	6.649	4000.0	2.597	34.915	244.4	2.246
800.0	6.608	35.228	223.0	6.532	4050.0	2.596	34.914	244.0	2.239
850.0	6.030	35.150	232.2	5.953	4100.0	2.593	34.914	243.8	2.231
900.0	6.362	35.230	228.9	6.277	4150.0	2.591	34.913	243.5	2.223
950.0	5.492	35.107	242.1	5.409	4198.0	2.591	34.912	243.2	2.217
1000.0	5.065	35.042	250.9	4.981					
1050.0	4.746	35.002	257.3	4.659					
1100.0	4.529	34.975	262.2	4.439					
1150.0	4.371	34.956	266.3	4.279					
1200.0	4.283	34.949	267.9	4.187					
1250.0	4.179	34.938	270.3	4.079					
1300.0	4.120	34.935	270.8	4.017					
1350.0	4.059	34.931	272.0	3.951					
1400.0	3.957	34.920	275.1	3.847					
1450.0	3.954	34.923	274.5	3.839					
1500.0	3.853	34.913	277.1	3.734					
1550.0	3.806	34.912	277.1	3.684					
1600.0	3.781	34.911	276.9	3.654					
1650.0	3.763	34.913	277.3	3.632					
1700.0	3.741	34.915	276.0	3.606					
1750.0	3.706	34.915	276.6	3.567					
1800.0	3.708	34.921	274.8	3.563					
1850.0	3.685	34.924	273.1	3.537					
1900.0	3.644	34.925	272.7	3.492					
1950.0	3.626	34.925	273.6	3.469					
2000.0	3.592	34.927	272.9	3.430					
2050.0	3.561	34.927	272.1	3.396					
2100.0	3.519	34.927	272.2	3.349					
2150.0	3.481	34.928	272.3	3.307					
2200.0	3.437	34.928	272.5	3.259					
2250.0	3.400	34.929	272.5	3.217					
2300.0	3.357	34.930	272.5	3.170					
2350.0	3.311	34.931	272.9	3.120					
2400.0	3.283	34.932	272.6	3.088					
2450.0	3.255	34.933	272.5	3.055					
2500.0	3.229	34.934	272.2	3.025					
2550.0	3.200	34.936	272.0	2.991					
2600.0	3.159	34.938	271.2	2.946					
2650.0	3.127	34.940	270.8	2.910					
2700.0	3.093	34.941	270.1	2.872					
2750.0	3.065	34.943	269.9	2.839					
2800.0	3.030	34.944	268.5	2.799					
2850.0	2.996	34.945	267.5	2.761					
2900.0	2.978	34.945	266.7	2.738					
2950.0	2.950	34.945	265.4	2.706					
3000.0	2.922	34.946	264.6	2.673					



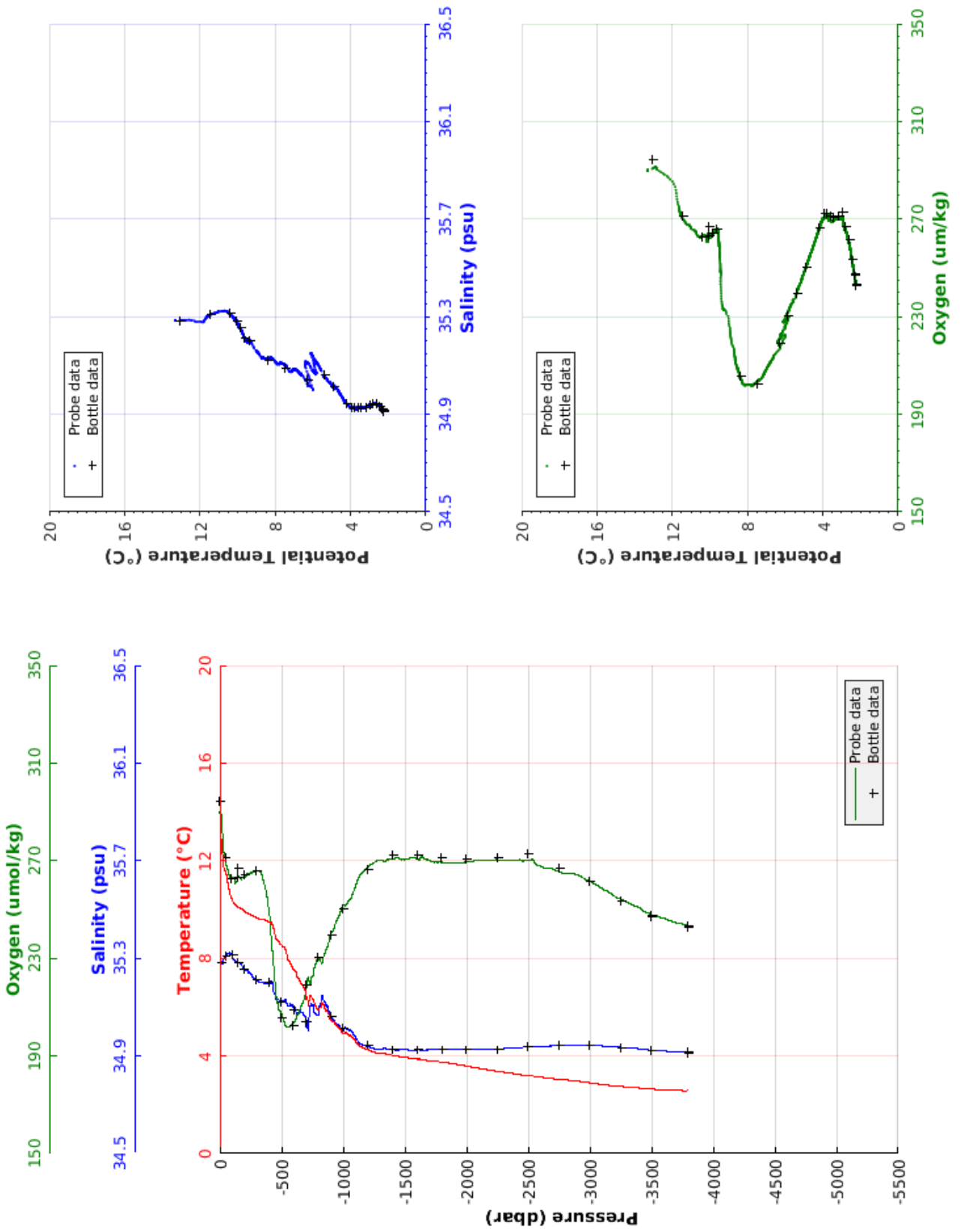
Station: 43

```

-----
| Cruise      : OVIDE 2018
| Station    : 44          Cast      : 1
| Date       : 26/06/2018   Ship       : N/O THALASSA
| Depth      : 3739 m       Organism  : IFREMER
| Position   : N 50 38.40
|             W 022 54.00
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	13.292	35.284	289.7	13.292	3050.0	2.861	34.943	260.2	2.608
10.0	12.909	35.284	291.3	12.908	3100.0	2.824	34.941	258.7	2.567
20.0	12.415	35.285	288.2	12.412	3150.0	2.796	34.939	257.3	2.534
30.0	11.750	35.287	278.1	11.746	3200.0	2.766	34.937	255.5	2.499
40.0	11.606	35.301	273.0	11.601	3250.0	2.745	34.935	254.3	2.473
50.0	11.521	35.306	271.1	11.514	3300.0	2.726	34.933	253.0	2.449
100.0	10.459	35.314	262.8	10.447	3350.0	2.707	34.931	251.8	2.426
150.0	10.096	35.284	263.3	10.078	3400.0	2.690	34.929	250.9	2.404
200.0	9.932	35.259	263.1	9.909	3450.0	2.658	34.926	249.1	2.367
250.0	9.802	35.239	264.6	9.773	3500.0	2.638	34.923	247.9	2.342
300.0	9.657	35.211	265.9	9.622	3550.0	2.629	34.922	247.2	2.328
350.0	9.588	35.199	263.9	9.548	3600.0	2.616	34.921	246.3	2.310
400.0	9.490	35.198	250.7	9.444	3650.0	2.600	34.918	245.4	2.289
450.0	8.953	35.152	222.0	8.903	3700.0	2.589	34.917	244.7	2.272
500.0	8.546	35.125	207.9	8.493	3750.0	2.580	34.915	244.1	2.258
550.0	8.017	35.114	202.1	7.960	3795.0	2.579	34.914	243.6	2.252
600.0	7.549	35.103	203.5	7.488					
650.0	7.058	35.084	208.6	6.995					
700.0	6.374	35.026	216.6	6.309					
750.0	6.323	35.108	222.3	6.253					
800.0	5.898	35.069	229.8	5.826					
850.0	5.976	35.123	231.4	5.899					
900.0	5.464	35.052	239.6	5.385					
950.0	5.208	35.031	245.2	5.127					
1000.0	4.929	35.006	251.5	4.845					
1050.0	4.844	35.007	253.7	4.756					
1100.0	4.602	34.978	258.7	4.512					
1150.0	4.357	34.948	264.6	4.265					
1200.0	4.262	34.940	266.8	4.166					
1250.0	4.157	34.931	269.1	4.057					
1300.0	4.098	34.927	270.4	3.995					
1350.0	4.073	34.928	270.1	3.966					
1400.0	4.023	34.925	270.9	3.911					
1450.0	3.980	34.925	271.0	3.865					
1500.0	3.955	34.926	270.4	3.835					
1550.0	3.904	34.924	271.1	3.780					
1600.0	3.869	34.924	271.0	3.741					
1650.0	3.833	34.924	271.4	3.701					
1700.0	3.803	34.925	270.2	3.667					
1750.0	3.789	34.927	269.5	3.648					
1800.0	3.750	34.927	269.3	3.605					
1850.0	3.713	34.928	269.0	3.564					
1900.0	3.664	34.928	269.3	3.511					
1950.0	3.620	34.928	269.1	3.463					
2000.0	3.581	34.928	269.4	3.420					
2050.0	3.537	34.928	269.6	3.372					
2100.0	3.498	34.928	270.0	3.328					
2150.0	3.456	34.928	270.1	3.282					
2200.0	3.416	34.928	270.2	3.238					
2250.0	3.376	34.929	270.5	3.194					
2300.0	3.336	34.930	270.3	3.150					
2350.0	3.297	34.931	270.2	3.107					
2400.0	3.256	34.933	270.0	3.061					
2450.0	3.218	34.935	270.0	3.019					
2500.0	3.200	34.937	270.3	2.996					
2550.0	3.168	34.939	270.1	2.960					
2600.0	3.138	34.938	267.9	2.926					
2650.0	3.104	34.940	266.9	2.887					
2700.0	3.069	34.941	266.6	2.848					
2750.0	3.041	34.942	265.6	2.815					
2800.0	3.018	34.943	264.8	2.787					
2850.0	2.995	34.944	264.8	2.760					
2900.0	2.967	34.944	264.2	2.727					
2950.0	2.935	34.944	262.9	2.691					
3000.0	2.899	34.944	261.6	2.650					



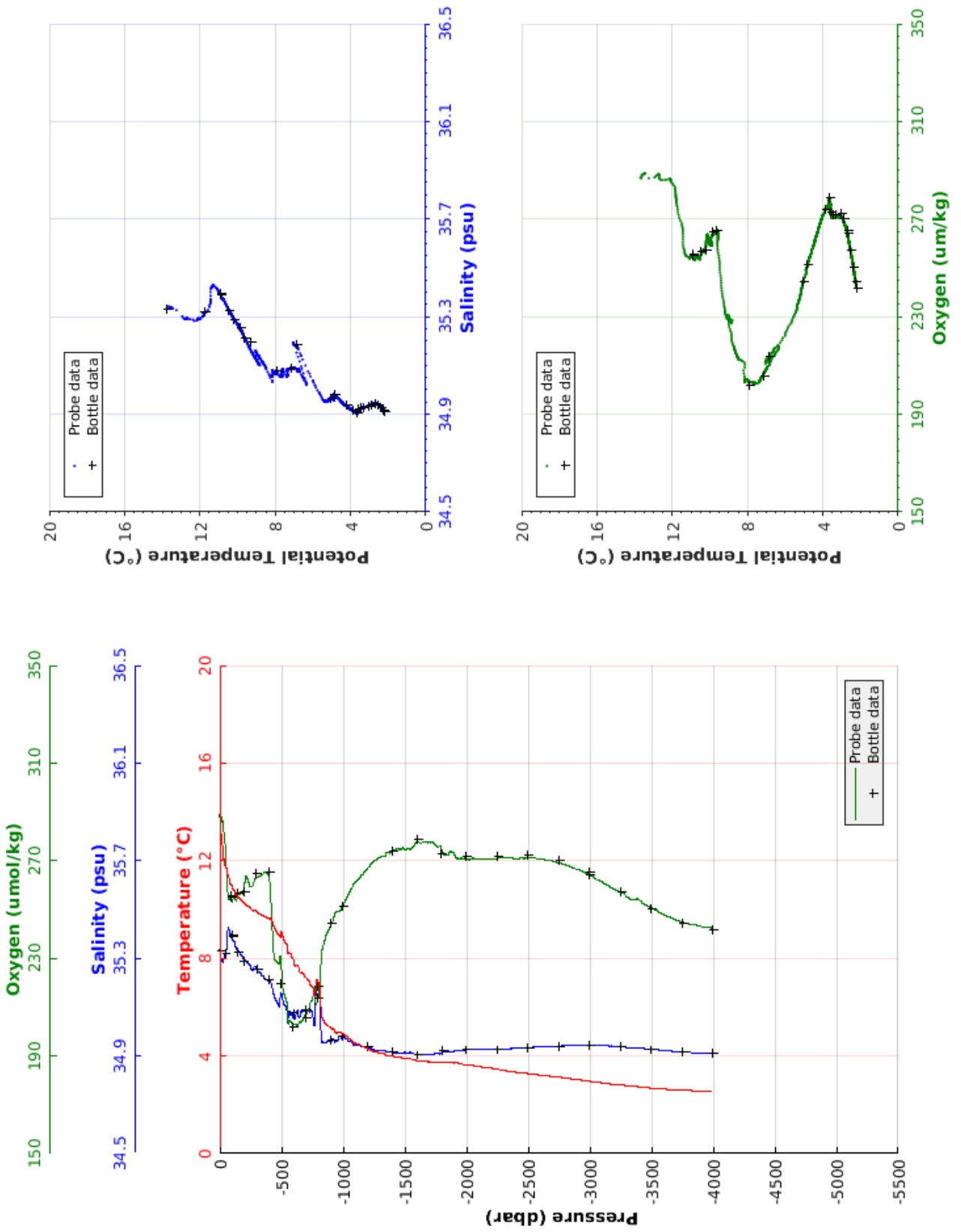
Station: 44


```

-----
| Cruise      : OVIDE 2018
| Station    : 45          Cast      : 1
| Date       : 26/06/2018   Ship     : N/O THALASSA
| Depth      : 3932 m       Organism : IFREMER
| Position   : N 51 1.72
|             W 023 11.38
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	13.468	35.335	288.5	13.468	3050.0	2.923	34.943	262.6	2.669
10.0	13.252	35.326	286.8	13.250	3100.0	2.899	34.943	261.4	2.639
20.0	12.700	35.295	286.9	12.697	3150.0	2.863	34.941	259.8	2.599
30.0	12.098	35.292	286.1	12.094	3200.0	2.826	34.940	258.3	2.558
40.0	11.826	35.304	280.7	11.821	3250.0	2.806	34.938	257.1	2.533
50.0	11.759	35.314	275.6	11.752	3300.0	2.770	34.935	255.3	2.493
100.0	10.898	35.386	254.0	10.885	3350.0	2.748	34.934	254.0	2.466
150.0	10.491	35.330	255.5	10.473	3400.0	2.732	34.933	254.1	2.445
200.0	10.243	35.293	258.4	10.219	3450.0	2.703	34.930	251.9	2.411
250.0	10.053	35.270	259.6	10.024	3500.0	2.685	34.928	250.8	2.388
300.0	9.926	35.258	263.2	9.891	3550.0	2.665	34.926	249.5	2.363
350.0	9.758	35.228	264.2	9.717	3600.0	2.645	34.923	248.0	2.338
400.0	9.624	35.205	263.9	9.578	3650.0	2.627	34.920	246.8	2.315
450.0	9.158	35.137	229.9	9.108	3700.0	2.610	34.918	245.7	2.292
500.0	9.061	35.153	229.6	9.006	3750.0	2.594	34.916	244.9	2.272
550.0	8.322	35.050	211.7	8.264	3800.0	2.583	34.914	244.1	2.255
600.0	7.811	35.056	203.4	7.749	3850.0	2.577	34.913	243.8	2.244
650.0	7.414	35.059	203.6	7.349	3900.0	2.567	34.912	243.1	2.228
700.0	7.206	35.089	206.8	7.137	3950.0	2.562	34.911	242.6	2.218
750.0	6.828	35.085	212.6	6.756	3995.0	2.566	34.911	242.5	2.217
800.0	6.954	35.179	213.1	6.876					
850.0	5.342	34.953	236.6	5.269					
900.0	5.171	34.964	242.7	5.095					
950.0	4.948	34.961	249.1	4.868					
1000.0	4.906	34.976	251.2	4.822					
1050.0	4.688	34.961	256.6	4.602					
1100.0	4.515	34.945	261.1	4.426					
1150.0	4.402	34.939	264.0	4.310					
1200.0	4.300	34.934	266.7	4.204					
1250.0	4.185	34.926	269.7	4.085					
1300.0	4.114	34.922	271.4	4.010					
1350.0	4.037	34.916	272.4	3.930					
1400.0	3.992	34.915	273.5	3.881					
1450.0	3.934	34.912	275.0	3.820					
1500.0	3.915	34.914	274.5	3.796					
1550.0	3.879	34.914	274.4	3.756					
1600.0	3.803	34.904	277.7	3.677					
1650.0	3.780	34.906	277.6	3.649					
1700.0	3.757	34.906	277.5	3.621					
1750.0	3.749	34.909	276.5	3.609					
1800.0	3.739	34.913	275.3	3.595					
1850.0	3.750	34.920	272.2	3.600					
1900.0	3.713	34.919	273.0	3.560					
1950.0	3.684	34.923	270.8	3.526					
2000.0	3.643	34.925	270.8	3.481					
2050.0	3.606	34.926	270.8	3.439					
2100.0	3.569	34.926	270.8	3.399					
2150.0	3.538	34.927	270.6	3.363					
2200.0	3.501	34.928	270.8	3.322					
2250.0	3.458	34.928	270.9	3.274					
2300.0	3.416	34.929	271.1	3.229					
2350.0	3.368	34.930	271.0	3.177					
2400.0	3.330	34.931	270.6	3.134					
2450.0	3.312	34.932	271.1	3.112					
2500.0	3.271	34.934	271.0	3.066					
2550.0	3.241	34.936	271.1	3.032					
2600.0	3.212	34.937	270.8	2.998					
2650.0	3.188	34.938	270.3	2.969					
2700.0	3.159	34.939	269.9	2.936					
2750.0	3.133	34.940	269.2	2.906					
2800.0	3.096	34.941	268.3	2.864					
2850.0	3.054	34.943	267.4	2.818					
2900.0	3.028	34.943	266.4	2.787					
2950.0	3.001	34.944	265.5	2.756					
3000.0	2.961	34.944	264.2	2.711					



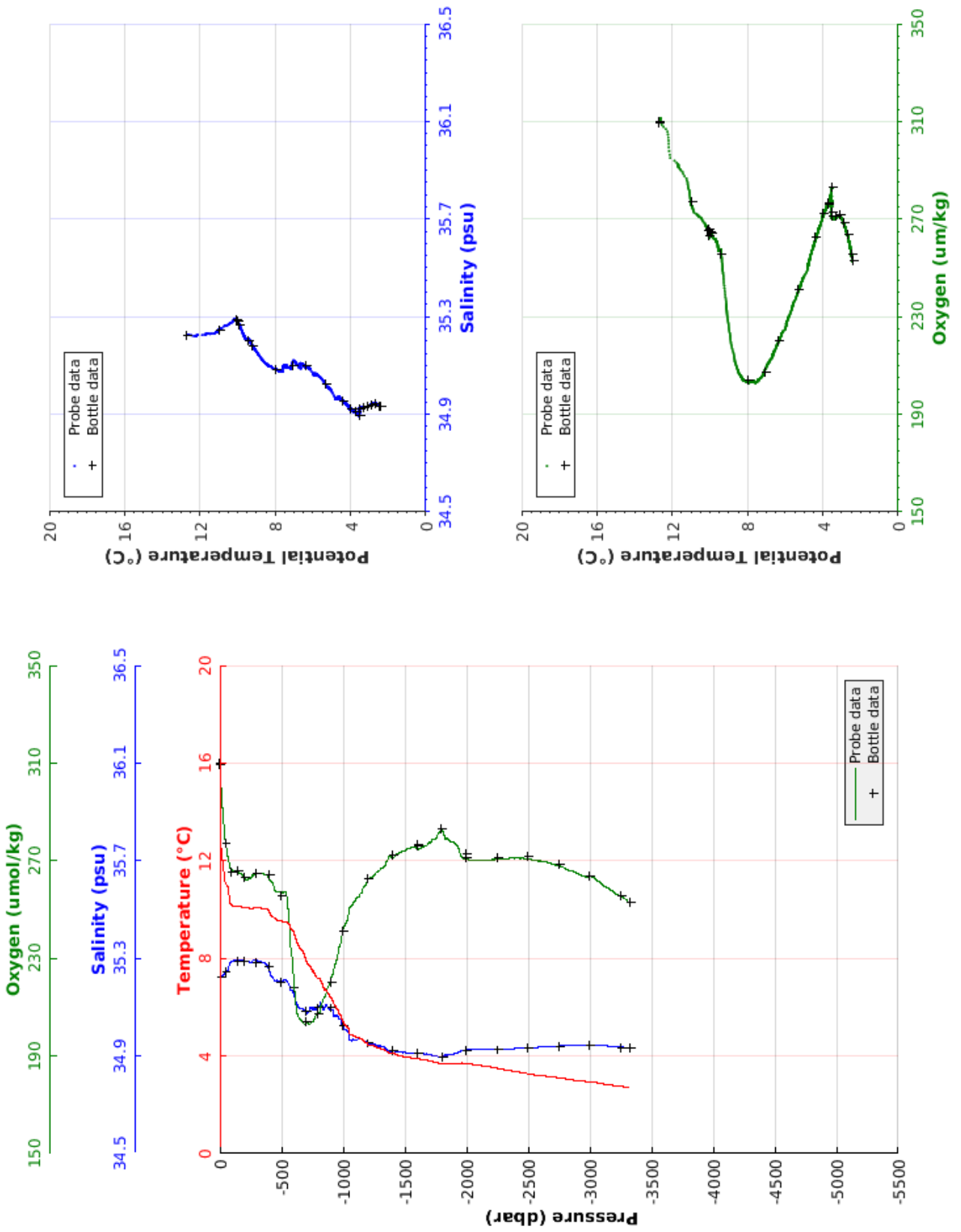
Station: 45

```

-----
| Cruise      : OVIDE 2018
| Station    : 46          Cast      : 1
| Date       : 26/06/2018   Ship       : N/O THALASSA
| Depth      : 3278 m      Organism  : IFREMER
| Position   : N 51 23.92
|             W 023 28.89
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	12.626	35.225	311.4	12.626	3050.0	2.907	34.944	262.2	2.653
10.0	12.558	35.225	308.6	12.557	3100.0	2.859	34.942	260.4	2.601
20.0	12.135	35.225	296.4	12.133	3150.0	2.817	34.940	258.8	2.555
30.0	11.625	35.230	291.0	11.621	3200.0	2.780	34.939	257.2	2.513
40.0	11.177	35.234	283.7	11.172	3250.0	2.748	34.936	255.4	2.476
50.0	11.039	35.243	277.7	11.033	3300.0	2.719	34.933	253.8	2.443
100.0	10.162	35.289	266.6	10.151	3325.0	2.710	34.932	252.9	2.431
150.0	10.115	35.291	265.6	10.097					
200.0	10.096	35.291	263.6	10.073					
250.0	10.036	35.282	262.7	10.007					
300.0	10.067	35.290	264.8	10.032					
350.0	10.038	35.284	264.6	9.997					
400.0	9.913	35.259	263.2	9.866					
450.0	9.610	35.208	258.1	9.559					
500.0	9.518	35.206	257.3	9.461					
550.0	9.450	35.206	254.8	9.387					
600.0	9.047	35.155	224.6	8.980					
650.0	8.393	35.097	205.2	8.323					
700.0	7.920	35.080	203.2	7.847					
750.0	7.506	35.092	203.8	7.430					
800.0	7.195	35.100	207.2	7.116					
850.0	6.734	35.088	214.1	6.652					
900.0	6.421	35.092	220.3	6.336					
950.0	5.928	35.061	229.3	5.842					
1000.0	5.394	35.022	240.4	5.307					
1050.0	4.915	34.968	248.9	4.827					
1100.0	4.785	34.965	253.7	4.693					
1150.0	4.698	34.971	256.7	4.603					
1200.0	4.486	34.953	261.7	4.388					
1250.0	4.403	34.950	263.9	4.301					
1300.0	4.316	34.942	266.1	4.211					
1350.0	4.208	34.931	268.6	4.099					
1400.0	4.108	34.923	271.2	3.996					
1450.0	4.027	34.918	272.9	3.911					
1500.0	3.971	34.914	274.0	3.851					
1550.0	3.907	34.910	275.3	3.783					
1600.0	3.891	34.912	274.9	3.763					
1650.0	3.853	34.910	275.6	3.721					
1700.0	3.796	34.905	277.4	3.660					
1750.0	3.754	34.902	278.7	3.614					
1800.0	3.674	34.894	282.4	3.530					
1850.0	3.680	34.902	279.5	3.531					
1900.0	3.683	34.908	277.4	3.530					
1950.0	3.705	34.919	273.2	3.546					
2000.0	3.689	34.924	270.8	3.527					
2050.0	3.652	34.926	270.2	3.485					
2100.0	3.627	34.926	270.1	3.456					
2150.0	3.593	34.927	270.2	3.417					
2200.0	3.545	34.927	270.4	3.365					
2250.0	3.493	34.928	270.7	3.309					
2300.0	3.441	34.928	270.8	3.253					
2350.0	3.403	34.929	270.9	3.210					
2400.0	3.359	34.931	271.1	3.163					
2450.0	3.314	34.932	271.0	3.114					
2500.0	3.270	34.932	270.7	3.065					
2550.0	3.226	34.934	270.2	3.017					
2600.0	3.184	34.936	269.9	2.971					
2650.0	3.165	34.938	269.5	2.947					
2700.0	3.135	34.939	268.7	2.912					
2750.0	3.104	34.940	267.9	2.877					
2800.0	3.066	34.942	267.0	2.835					
2850.0	3.028	34.943	265.8	2.792					
2900.0	2.995	34.943	265.0	2.755					
2950.0	2.962	34.944	263.8	2.718					
3000.0	2.944	34.944	263.5	2.694					



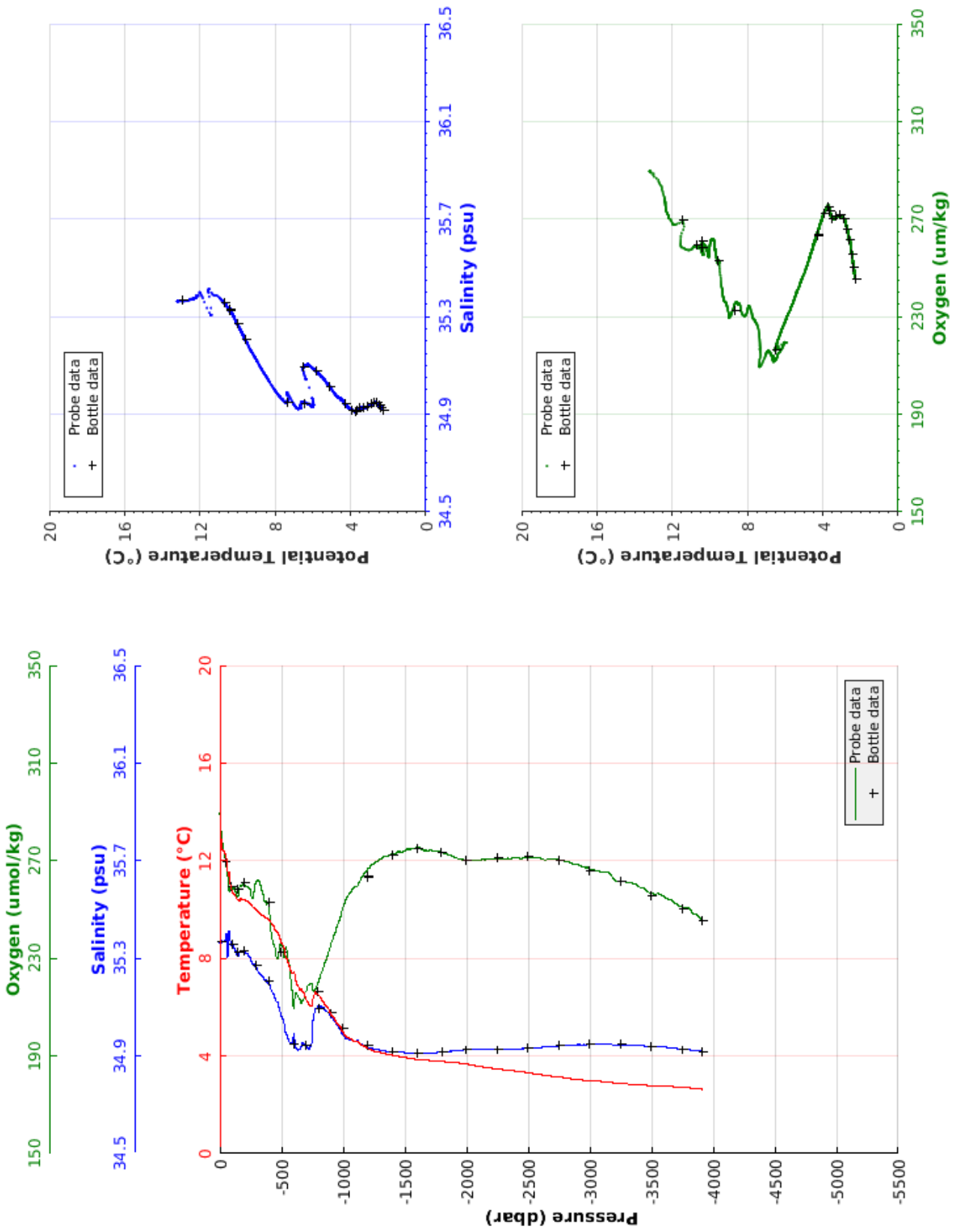
Station: 46

```

-----
| Cruise      : OVIDE 2018
| Station     : 47           Cast      : 1
| Date       : 27/06/2018   Ship     : N/O THALASSA
| Depth      : 3853 m       Organism : IFREMER
| Position   : N 51 46.28
|             W 023 46.63
|-----
  
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	13.198	35.364	289.6	13.198	3050.0	2.974	34.947	266.1	2.719
10.0	12.974	35.364	287.4	12.973	3100.0	2.953	34.948	265.6	2.693
20.0	12.490	35.371	280.5	12.487	3150.0	2.935	34.949	265.4	2.670
30.0	12.380	35.370	276.9	12.376	3200.0	2.884	34.944	262.2	2.615
40.0	12.331	35.376	273.5	12.326	3250.0	2.867	34.944	261.4	2.593
50.0	12.207	35.381	270.9	12.201	3300.0	2.850	34.945	261.2	2.571
100.0	10.699	35.353	259.2	10.687	3350.0	2.838	34.944	260.7	2.554
150.0	10.378	35.312	255.6	10.360	3400.0	2.819	34.942	259.3	2.529
200.0	10.411	35.330	260.4	10.387	3450.0	2.798	34.940	258.2	2.504
250.0	10.241	35.301	258.4	10.211	3500.0	2.783	34.938	256.5	2.484
300.0	9.979	35.259	261.2	9.944	3550.0	2.783	34.939	256.6	2.478
350.0	9.772	35.228	257.6	9.732	3600.0	2.765	34.936	255.4	2.454
400.0	9.560	35.196	252.3	9.515	3650.0	2.753	34.934	254.0	2.438
450.0	9.173	35.139	235.0	9.122	3700.0	2.731	34.931	252.5	2.411
500.0	8.624	35.066	236.0	8.570	3750.0	2.713	34.928	251.0	2.388
550.0	7.894	34.979	232.8	7.838	3800.0	2.697	34.927	250.6	2.366
600.0	7.430	34.982	211.3	7.370	3850.0	2.673	34.923	248.3	2.337
650.0	6.715	34.927	213.8	6.654	3900.0	2.640	34.919	246.3	2.299
700.0	6.296	34.941	216.4	6.232	3916.0	2.631	34.918	246.0	2.289
750.0	6.078	34.960	219.5	6.010					
800.0	6.499	35.102	219.9	6.424					
850.0	6.112	35.090	227.3	6.034					
900.0	5.722	35.063	234.7	5.642					
950.0	5.335	35.027	242.5	5.253					
1000.0	4.964	34.989	250.3	4.880					
1050.0	4.717	34.969	256.1	4.630					
1100.0	4.589	34.960	259.4	4.500					
1150.0	4.445	34.948	262.7	4.352					
1200.0	4.309	34.936	266.1	4.213					
1250.0	4.207	34.929	268.6	4.107					
1300.0	4.137	34.923	270.4	4.033					
1350.0	4.076	34.919	271.9	3.968					
1400.0	4.032	34.917	272.7	3.921					
1450.0	3.981	34.914	273.7	3.865					
1500.0	3.943	34.914	273.9	3.823					
1550.0	3.898	34.911	274.7	3.775					
1600.0	3.854	34.909	275.6	3.727					
1650.0	3.842	34.913	274.3	3.710					
1700.0	3.814	34.912	274.3	3.678					
1750.0	3.792	34.914	274.0	3.652					
1800.0	3.775	34.916	273.4	3.630					
1850.0	3.753	34.918	272.6	3.604					
1900.0	3.734	34.921	271.5	3.580					
1950.0	3.703	34.924	270.6	3.545					
2000.0	3.664	34.925	270.3	3.501					
2050.0	3.618	34.927	270.1	3.451					
2100.0	3.584	34.927	270.1	3.413					
2150.0	3.535	34.927	270.4	3.360					
2200.0	3.501	34.927	270.5	3.321					
2250.0	3.467	34.927	270.7	3.283					
2300.0	3.437	34.927	270.8	3.249					
2350.0	3.410	34.928	270.9	3.217					
2400.0	3.381	34.929	271.2	3.185					
2450.0	3.338	34.930	270.9	3.137					
2500.0	3.313	34.932	271.4	3.108					
2550.0	3.267	34.933	271.3	3.057					
2600.0	3.235	34.935	271.1	3.021					
2650.0	3.198	34.937	270.4	2.980					
2700.0	3.160	34.940	270.9	2.937					
2750.0	3.139	34.941	270.3	2.911					
2800.0	3.106	34.943	269.9	2.873					
2850.0	3.059	34.945	269.2	2.822					
2900.0	3.037	34.946	268.4	2.796					
2950.0	3.009	34.946	267.4	2.764					
3000.0	2.988	34.947	266.6	2.737					





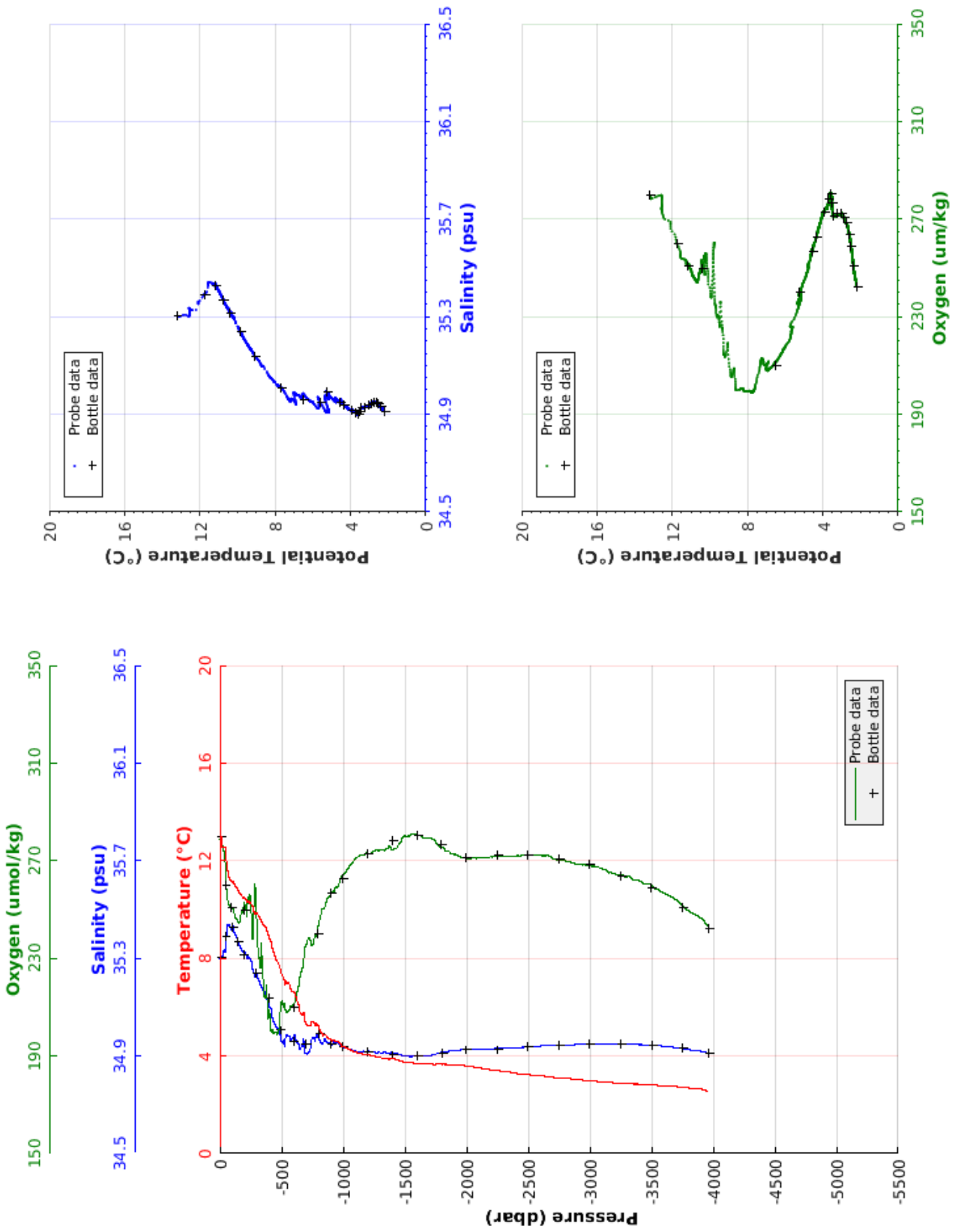
Station: 47

```

-----
| Cruise      : OVIDE 2018
| Station    : 48          Cast      : 1
| Date       : 27/06/2018   Ship     : N/O THALASSA
| Depth      : 3904 m       Organism : IFREMER
| Position   : N 52 8.82
|             W 024 4.33
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	13.147	35.300	278.9	13.147	3050.0	2.962	34.951	267.7	2.707
10.0	13.062	35.300	278.6	13.060	3100.0	2.936	34.951	266.7	2.676
20.0	12.564	35.307	278.9	12.561	3150.0	2.910	34.950	265.3	2.645
30.0	12.563	35.320	275.6	12.559	3200.0	2.897	34.950	264.7	2.627
40.0	12.561	35.334	273.6	12.555	3250.0	2.884	34.950	264.2	2.609
50.0	12.096	35.356	268.1	12.089	3300.0	2.869	34.949	263.3	2.590
100.0	11.152	35.427	250.9	11.139	3350.0	2.855	34.948	262.4	2.570
150.0	10.794	35.371	245.3	10.775	3400.0	2.841	34.946	261.8	2.551
200.0	10.490	35.331	252.6	10.466	3450.0	2.824	34.945	260.5	2.529
250.0	10.249	35.300	255.9	10.219	3500.0	2.820	34.945	260.1	2.520
300.0	9.843	35.234	252.0	9.809	3550.0	2.796	34.942	258.1	2.491
350.0	9.396	35.171	225.7	9.357	3600.0	2.782	34.940	256.9	2.471
400.0	8.885	35.116	205.8	8.842	3650.0	2.766	34.938	255.5	2.450
450.0	8.067	35.033	199.4	8.021	3700.0	2.746	34.935	253.9	2.425
500.0	7.363	34.963	210.9	7.313	3750.0	2.717	34.930	251.9	2.391
550.0	6.988	34.984	207.9	6.936	3800.0	2.688	34.926	249.5	2.357
600.0	6.602	34.974	210.9	6.546	3850.0	2.670	34.923	248.0	2.335
650.0	5.787	34.925	221.2	5.731	3900.0	2.645	34.920	246.6	2.304
700.0	5.299	34.909	235.1	5.240	3950.0	2.575	34.912	243.6	2.231
750.0	5.414	34.970	235.3	5.350	3966.0	2.575	34.912	243.1	2.229
800.0	5.165	34.973	242.3	5.097					
850.0	4.877	34.962	250.6	4.807					
900.0	4.670	34.951	256.0	4.597					
950.0	4.588	34.957	259.1	4.511					
1000.0	4.386	34.937	263.8	4.307					
1050.0	4.272	34.928	267.2	4.189					
1100.0	4.155	34.920	270.5	4.069					
1150.0	4.089	34.917	272.2	3.999					
1200.0	4.041	34.918	273.1	3.947					
1250.0	3.983	34.915	273.7	3.885					
1300.0	3.944	34.914	274.2	3.842					
1350.0	3.908	34.914	274.5	3.803					
1400.0	3.884	34.914	274.3	3.774					
1450.0	3.829	34.908	276.2	3.715					
1500.0	3.746	34.898	280.2	3.628					
1550.0	3.718	34.898	280.7	3.597					
1600.0	3.695	34.898	280.7	3.569					
1650.0	3.686	34.902	279.6	3.556					
1700.0	3.670	34.903	279.4	3.536					
1750.0	3.657	34.907	278.2	3.518					
1800.0	3.656	34.913	275.2	3.512					
1850.0	3.652	34.919	273.8	3.504					
1900.0	3.647	34.922	272.7	3.494					
1950.0	3.624	34.924	271.7	3.467					
2000.0	3.594	34.926	271.0	3.433					
2050.0	3.549	34.927	271.0	3.384					
2100.0	3.516	34.928	271.4	3.346					
2150.0	3.461	34.929	271.4	3.288					
2200.0	3.428	34.930	271.6	3.250					
2250.0	3.396	34.930	271.7	3.214					
2300.0	3.366	34.931	271.7	3.180					
2350.0	3.334	34.931	271.8	3.143					
2400.0	3.287	34.933	271.8	3.092					
2450.0	3.263	34.935	272.1	3.064					
2500.0	3.233	34.937	272.1	3.029					
2550.0	3.210	34.939	272.1	3.002					
2600.0	3.188	34.941	272.2	2.975					
2650.0	3.161	34.942	272.1	2.943					
2700.0	3.129	34.943	271.2	2.906					
2750.0	3.098	34.944	270.4	2.871					
2800.0	3.083	34.944	269.9	2.851					
2850.0	3.063	34.946	269.4	2.827					
2900.0	3.030	34.948	268.8	2.789					
2950.0	3.009	34.949	268.3	2.763					
3000.0	2.979	34.951	268.2	2.729					



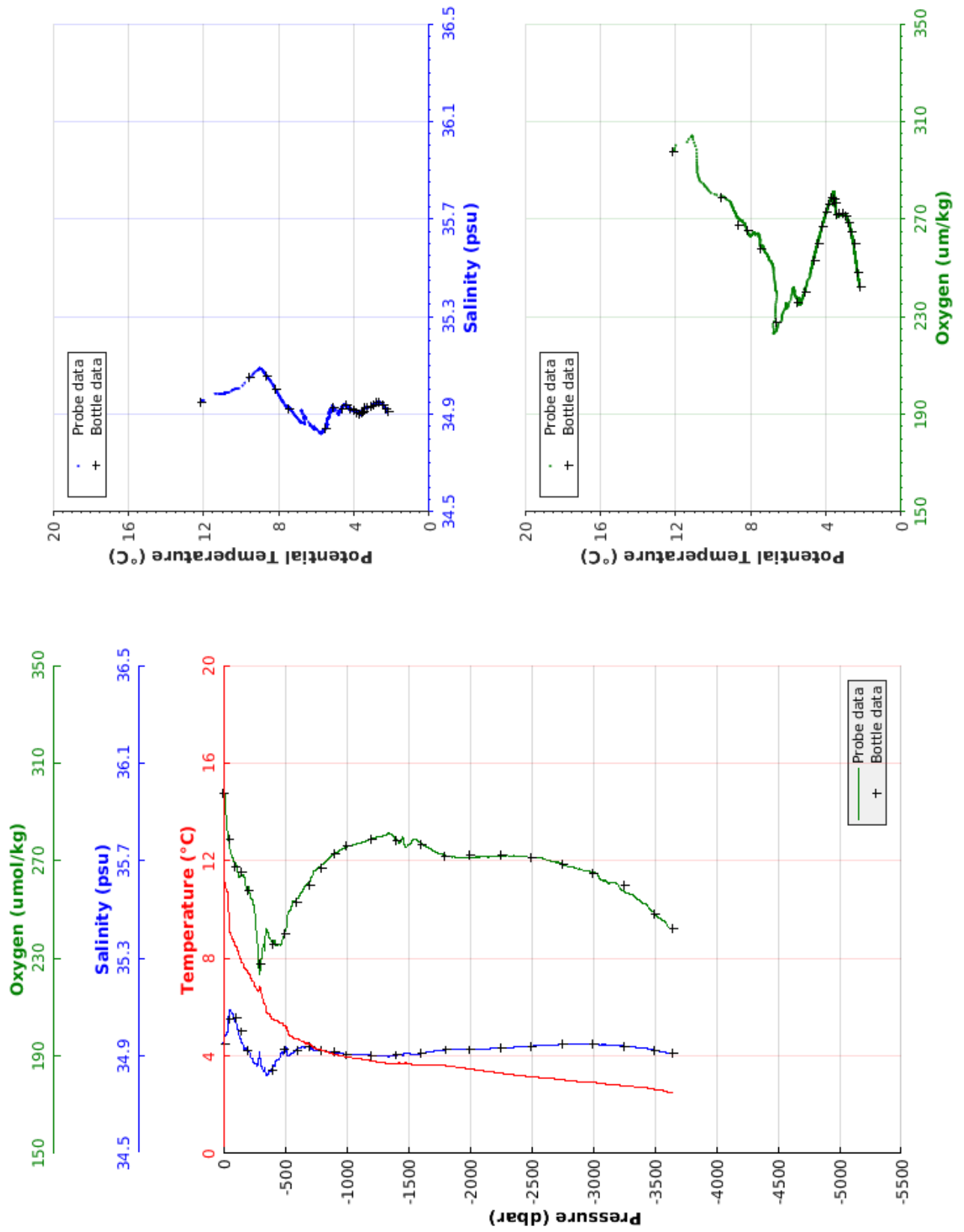
Station: 48


```

-----
| Cruise      : OVIDE 2018
| Station    : 49          Cast      : 1
| Date       : 27/06/2018   Ship     : N/O THALASSA
| Depth      : 3595 m       Organism : IFREMER
| Position   : N 52 31.24
|             W 024 21.69
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	12.066	34.956	297.8	12.066	3050.0	2.880	34.948	263.5	2.627
10.0	11.178	34.983	303.6	11.177	3100.0	2.852	34.947	261.9	2.594
20.0	10.864	34.986	294.4	10.861	3150.0	2.831	34.945	261.2	2.568
30.0	10.766	34.989	287.0	10.762	3200.0	2.814	34.945	260.5	2.546
40.0	10.211	35.006	281.4	10.207	3250.0	2.775	34.940	257.4	2.502
50.0	9.150	35.080	277.4	9.145	3300.0	2.756	34.939	256.4	2.478
100.0	8.499	35.042	269.3	8.488	3350.0	2.727	34.936	254.5	2.445
150.0	7.845	34.958	264.7	7.830	3400.0	2.698	34.933	252.8	2.411
200.0	7.420	34.923	258.9	7.401	3450.0	2.669	34.929	251.0	2.378
250.0	6.904	34.872	252.1	6.880	3500.0	2.626	34.923	248.5	2.330
300.0	6.717	34.901	223.8	6.690	3550.0	2.592	34.919	246.1	2.292
350.0	5.801	34.822	241.2	5.771	3600.0	2.534	34.912	243.9	2.229
400.0	5.510	34.851	236.6	5.477	3650.0	2.526	34.911	242.4	2.217
450.0	5.384	34.883	235.4	5.347	3651.0	2.526	34.911	242.4	2.216
500.0	5.226	34.921	238.7	5.185					
550.0	4.829	34.914	249.9	4.785					
600.0	4.687	34.930	254.4	4.640					
650.0	4.582	34.939	257.8	4.531					
700.0	4.482	34.939	261.1	4.427					
750.0	4.301	34.923	266.0	4.243					
800.0	4.235	34.922	268.0	4.174					
850.0	4.151	34.918	270.3	4.087					
900.0	4.060	34.912	272.9	3.991					
950.0	4.000	34.910	274.4	3.928					
1000.0	3.952	34.907	275.5	3.876					
1050.0	3.919	34.906	276.3	3.839					
1100.0	3.889	34.905	277.0	3.805					
1150.0	3.849	34.905	277.6	3.761					
1200.0	3.800	34.902	278.7	3.708					
1250.0	3.755	34.901	279.6	3.660					
1300.0	3.720	34.900	280.3	3.620					
1350.0	3.683	34.898	281.2	3.580					
1400.0	3.695	34.903	278.8	3.587					
1450.0	3.675	34.904	278.6	3.563					
1500.0	3.681	34.909	276.5	3.564					
1550.0	3.635	34.905	278.8	3.515					
1600.0	3.634	34.909	277.5	3.509					
1650.0	3.635	34.915	275.7	3.506					
1700.0	3.635	34.918	274.6	3.501					
1750.0	3.620	34.922	272.9	3.482					
1800.0	3.602	34.925	272.4	3.459					
1850.0	3.576	34.926	271.6	3.429					
1900.0	3.531	34.927	271.4	3.380					
1950.0	3.500	34.927	271.2	3.345					
2000.0	3.481	34.928	271.2	3.321					
2050.0	3.429	34.929	271.5	3.266					
2100.0	3.398	34.929	271.6	3.230					
2150.0	3.371	34.930	271.5	3.199					
2200.0	3.331	34.931	271.7	3.155					
2250.0	3.305	34.932	271.9	3.124					
2300.0	3.264	34.933	272.1	3.079					
2350.0	3.240	34.935	272.0	3.050					
2400.0	3.204	34.937	271.7	3.011					
2450.0	3.172	34.939	271.6	2.974					
2500.0	3.144	34.940	271.4	2.942					
2550.0	3.127	34.942	271.3	2.920					
2600.0	3.100	34.943	270.8	2.888					
2650.0	3.077	34.944	270.0	2.860					
2700.0	3.058	34.946	269.4	2.837					
2750.0	3.026	34.947	268.8	2.801					
2800.0	2.989	34.948	267.6	2.759					
2850.0	2.965	34.949	267.1	2.730					
2900.0	2.947	34.949	266.6	2.707					
2950.0	2.927	34.949	265.8	2.683					
3000.0	2.908	34.950	265.1	2.659					



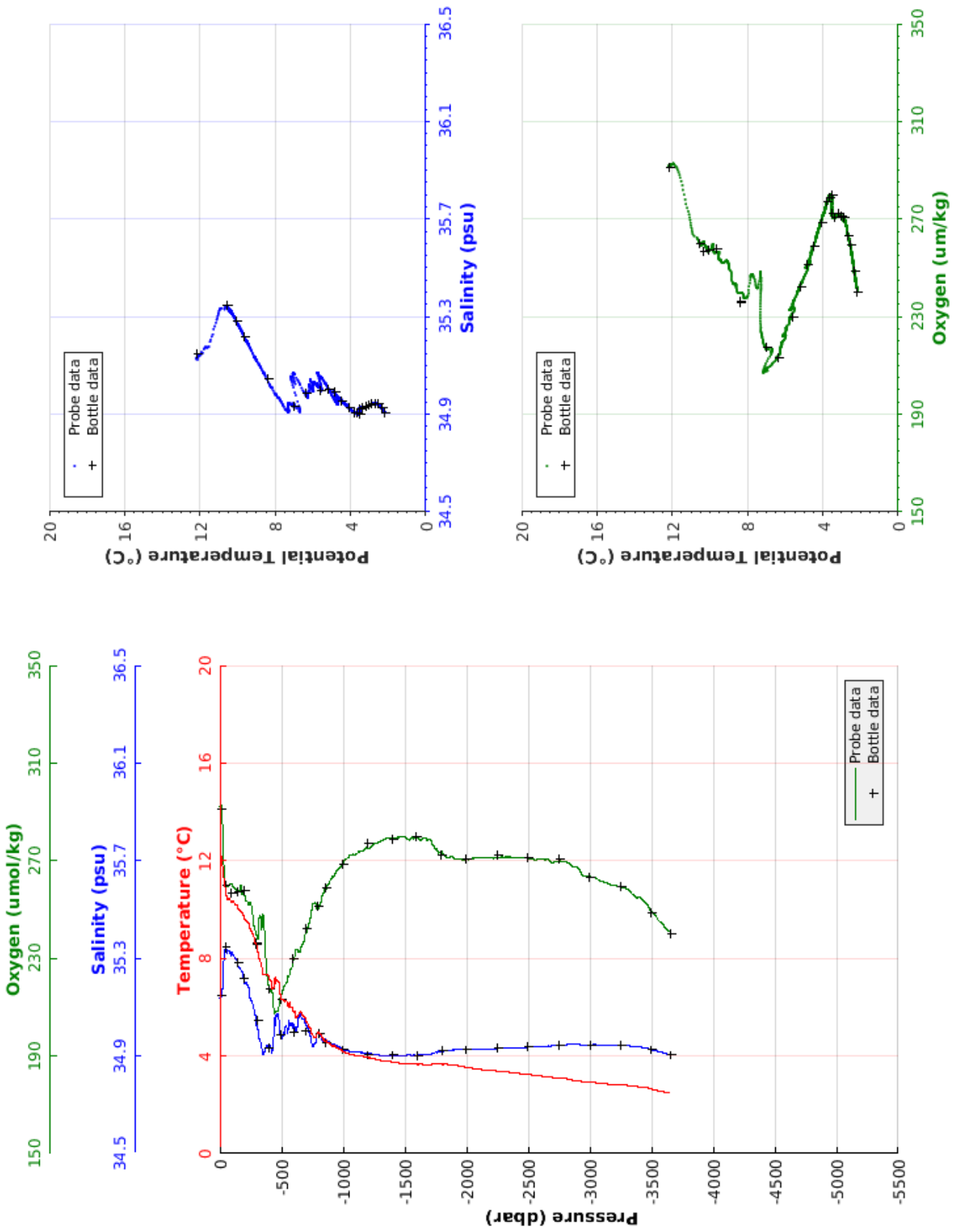
Station: 49

```

-----
| Cruise      : OVIDE 2018
| Station     : 50           Cast      : 1
| Date       : 27/06/2018   Ship     : N/O THALASSA
| Depth      : 3604 m       Organism : IFREMER
| Position   : N 52 53.40
|             W 024 39.75
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	12.081	35.138	292.4	12.081	3050.0	2.903	34.946	263.0	2.649
10.0	12.192	35.131	291.7	12.191	3100.0	2.870	34.945	261.7	2.611
20.0	11.859	35.151	291.9	11.857	3150.0	2.849	34.944	260.8	2.586
30.0	11.380	35.218	280.0	11.377	3200.0	2.829	34.944	260.0	2.561
40.0	10.985	35.324	266.4	10.980	3250.0	2.817	34.943	259.4	2.544
50.0	10.596	35.338	260.8	10.590	3300.0	2.797	34.942	258.5	2.519
100.0	10.362	35.323	260.6	10.350	3350.0	2.759	34.938	256.1	2.476
150.0	10.018	35.270	257.2	10.001	3400.0	2.741	34.937	255.0	2.454
200.0	9.626	35.210	256.2	9.603	3450.0	2.697	34.932	252.8	2.405
250.0	9.131	35.135	253.0	9.103	3500.0	2.649	34.926	249.5	2.352
300.0	8.395	35.031	239.7	8.364	3550.0	2.577	34.917	246.3	2.277
350.0	7.348	34.908	246.7	7.314	3600.0	2.533	34.912	243.5	2.229
400.0	7.184	34.941	218.9	7.145	3650.0	2.486	34.907	241.1	2.177
450.0	7.189	35.053	207.1	7.146	3658.0	2.482	34.907	241.1	2.173
500.0	6.330	34.970	215.2	6.285					
550.0	6.094	35.001	220.7	6.045					
600.0	5.779	35.012	229.2	5.727					
650.0	5.791	35.065	232.9	5.734					
700.0	5.400	35.027	240.1	5.340					
750.0	4.861	34.951	249.7	4.800					
800.0	4.968	34.993	250.1	4.902					
850.0	4.610	34.958	257.6	4.542					
900.0	4.433	34.947	262.0	4.362					
950.0	4.302	34.937	265.6	4.228					
1000.0	4.185	34.929	268.8	4.107					
1050.0	4.068	34.918	271.7	3.987					
1100.0	4.030	34.917	272.4	3.945					
1150.0	3.989	34.913	274.0	3.900					
1200.0	3.930	34.910	275.2	3.837					
1250.0	3.884	34.906	276.6	3.788					
1300.0	3.827	34.903	277.8	3.727					
1350.0	3.773	34.901	279.1	3.668					
1400.0	3.738	34.900	279.3	3.630					
1450.0	3.712	34.901	279.6	3.600					
1500.0	3.690	34.901	279.7	3.573					
1550.0	3.688	34.904	278.6	3.567					
1600.0	3.656	34.902	279.7	3.531					
1650.0	3.644	34.904	279.1	3.514					
1700.0	3.638	34.905	278.9	3.504					
1750.0	3.677	34.915	274.9	3.538					
1800.0	3.657	34.918	273.7	3.514					
1850.0	3.655	34.923	271.4	3.507					
1900.0	3.624	34.925	271.3	3.472					
1950.0	3.584	34.926	270.5	3.427					
2000.0	3.533	34.927	270.5	3.373					
2050.0	3.497	34.928	270.9	3.333					
2100.0	3.456	34.929	271.3	3.287					
2150.0	3.425	34.929	271.1	3.252					
2200.0	3.394	34.930	271.1	3.216					
2250.0	3.384	34.930	271.1	3.202					
2300.0	3.363	34.931	271.4	3.176					
2350.0	3.334	34.932	271.5	3.143					
2400.0	3.302	34.932	271.2	3.106					
2450.0	3.268	34.934	271.2	3.068					
2500.0	3.235	34.936	271.4	3.031					
2550.0	3.210	34.938	270.4	3.002					
2600.0	3.175	34.939	270.8	2.962					
2650.0	3.154	34.941	270.4	2.936					
2700.0	3.118	34.941	269.2	2.895					
2750.0	3.099	34.944	269.9	2.873					
2800.0	3.069	34.946	269.8	2.838					
2850.0	3.012	34.947	268.2	2.777					
2900.0	2.988	34.948	267.3	2.748					
2950.0	2.943	34.946	263.9	2.699					
3000.0	2.928	34.946	263.6	2.679					



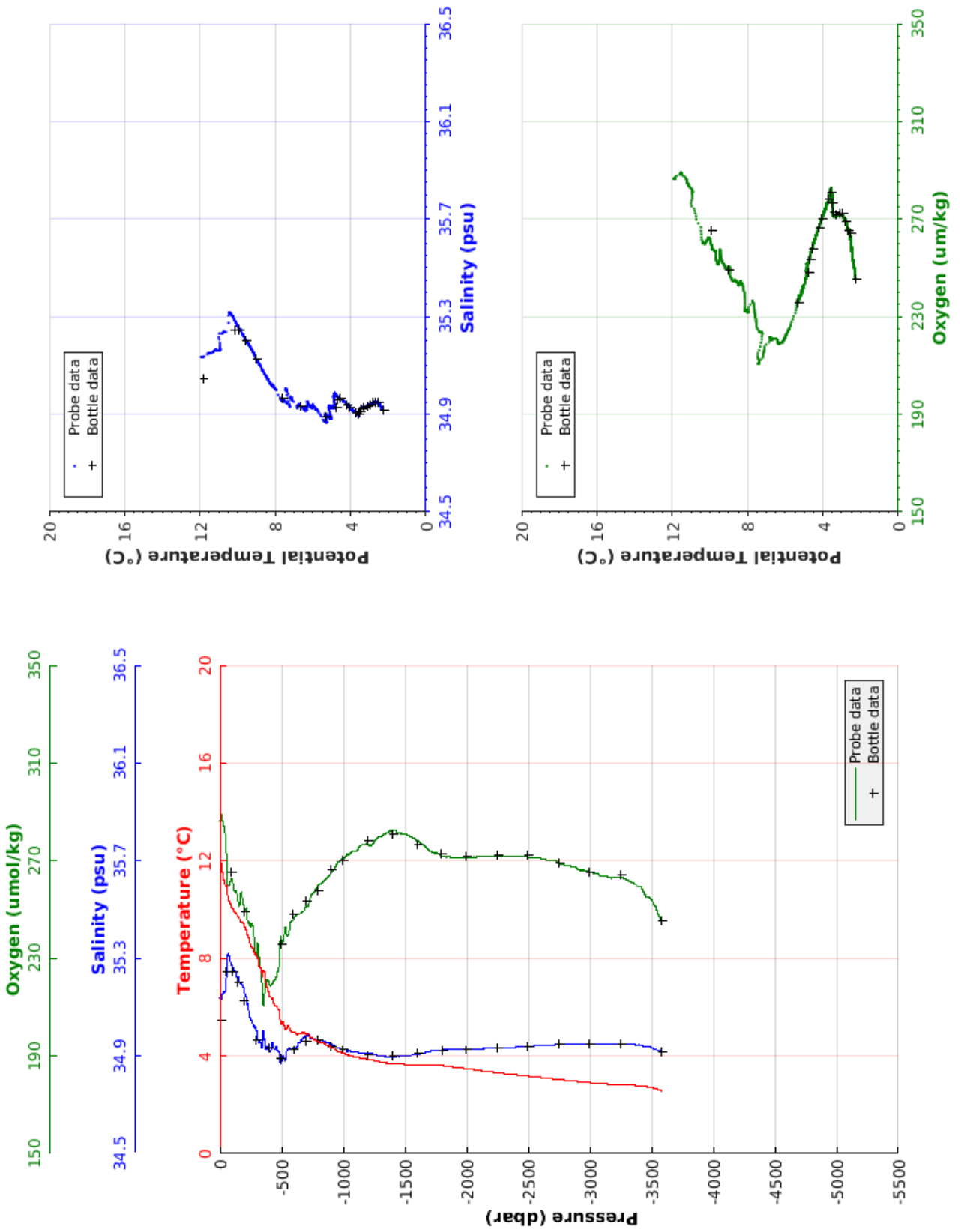
Station: 50

```

-----
| Cruise      : OVIDE 2018
| Station    : 51          Cast      : 1
| Date       : 28/06/2018   Ship     : N/O THALASSA
| Depth      : 3528 m       Organism : IFREMER
| Position   : N 53 16.02
|             W 024 57.19
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	11.887	35.135	286.4	11.887	3050.0	2.883	34.949	264.6	2.630
10.0	11.882	35.134	286.5	11.881	3100.0	2.866	34.949	263.9	2.608
20.0	11.535	35.150	289.1	11.532	3150.0	2.845	34.948	263.3	2.582
30.0	11.222	35.161	285.6	11.218	3200.0	2.838	34.950	263.2	2.570
40.0	11.124	35.164	283.7	11.119	3250.0	2.831	34.950	263.2	2.557
50.0	10.924	35.170	280.8	10.917	3300.0	2.818	34.949	262.2	2.540
100.0	10.059	35.269	262.5	10.048	3350.0	2.806	34.948	261.0	2.523
150.0	9.700	35.223	254.6	9.683	3400.0	2.791	34.946	259.6	2.502
200.0	9.298	35.168	251.4	9.276	3450.0	2.743	34.937	256.2	2.450
250.0	8.520	35.057	243.1	8.493	3500.0	2.720	34.935	254.0	2.422
300.0	8.031	35.005	232.4	8.001	3550.0	2.619	34.922	248.8	2.318
350.0	7.498	35.000	214.9	7.464	3579.0	2.572	34.917	245.4	2.270
400.0	6.488	34.919	220.7	6.451					
450.0	6.073	34.928	221.2	6.033					
500.0	5.306	34.869	238.7	5.264					
550.0	5.226	34.927	239.2	5.180					
600.0	4.974	34.932	245.6	4.925					
650.0	4.923	34.952	248.3	4.870					
700.0	4.870	34.973	251.3	4.813					
750.0	4.708	34.968	255.9	4.648					
800.0	4.577	34.962	259.6	4.514					
850.0	4.487	34.958	261.8	4.420					
900.0	4.365	34.949	264.7	4.294					
950.0	4.219	34.935	268.1	4.145					
1000.0	4.116	34.928	270.7	4.039					
1050.0	4.028	34.921	272.6	3.948					
1100.0	3.969	34.917	273.9	3.885					
1150.0	3.897	34.910	276.2	3.808					
1200.0	3.857	34.908	276.9	3.765					
1250.0	3.818	34.907	277.3	3.722					
1300.0	3.762	34.901	279.7	3.662					
1350.0	3.710	34.897	281.2	3.607					
1400.0	3.675	34.895	282.5	3.568					
1450.0	3.680	34.899	281.1	3.568					
1500.0	3.653	34.899	281.0	3.537					
1550.0	3.641	34.903	279.8	3.520					
1600.0	3.640	34.906	278.3	3.515					
1650.0	3.635	34.912	276.6	3.506					
1700.0	3.637	34.918	274.4	3.503					
1750.0	3.627	34.921	273.1	3.489					
1800.0	3.607	34.924	272.2	3.465					
1850.0	3.575	34.926	271.6	3.429					
1900.0	3.539	34.927	271.2	3.388					
1950.0	3.510	34.927	271.2	3.354					
2000.0	3.475	34.928	271.3	3.316					
2050.0	3.445	34.928	271.4	3.281					
2100.0	3.400	34.930	271.6	3.232					
2150.0	3.367	34.930	271.6	3.195					
2200.0	3.342	34.931	271.7	3.166					
2250.0	3.318	34.932	271.8	3.137					
2300.0	3.282	34.933	271.8	3.097					
2350.0	3.262	34.934	271.7	3.072					
2400.0	3.235	34.935	271.5	3.041					
2450.0	3.196	34.937	271.7	2.997					
2500.0	3.172	34.939	271.5	2.969					
2550.0	3.146	34.941	271.3	2.938					
2600.0	3.118	34.943	271.0	2.906					
2650.0	3.088	34.944	270.5	2.872					
2700.0	3.063	34.946	270.0	2.842					
2750.0	3.036	34.947	269.1	2.810					
2800.0	3.008	34.948	268.2	2.777					
2850.0	2.984	34.948	267.8	2.749					
2900.0	2.953	34.949	266.7	2.714					
2950.0	2.934	34.949	266.1	2.690					
3000.0	2.906	34.949	265.4	2.657					



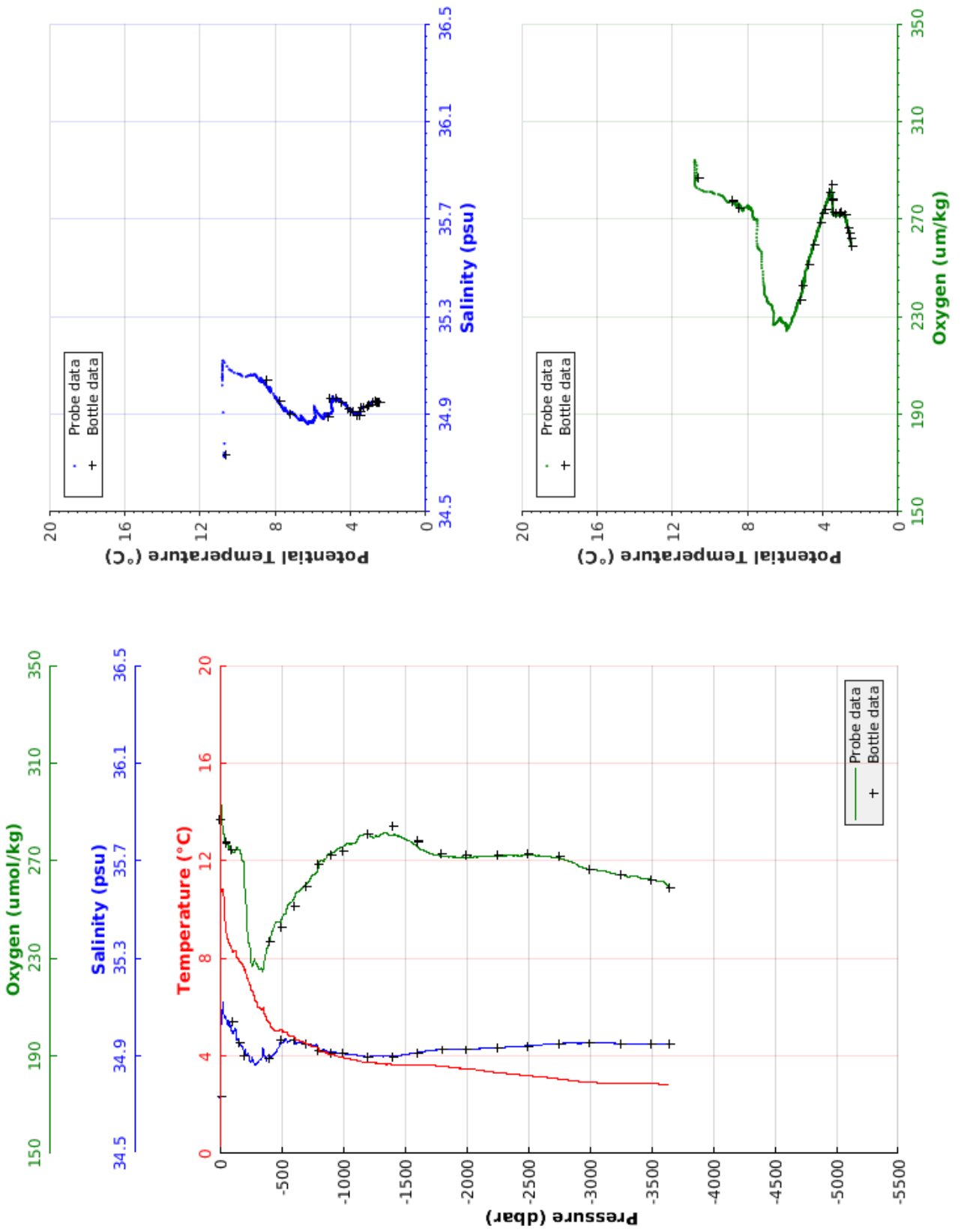
Station: 51

```

-----
| Cruise      : OVIDE 2018
| Station     : 52          Cast      : 1
| Date        : 28/06/2018   Ship       : N/O THALASSA
| Depth       : 3588 m       Organism  : IFREMER
| Position    : N 53 38.33
|              W 025 14.23
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	10.717	34.729	286.2	10.717	3050.0	2.907	34.953	266.3	2.653
10.0	10.705	34.735	289.0	10.704	3100.0	2.900	34.953	266.0	2.641
20.0	10.822	35.060	290.0	10.819	3150.0	2.888	34.953	265.4	2.624
30.0	10.701	35.112	282.8	10.697	3200.0	2.873	34.952	264.7	2.604
40.0	9.825	35.061	280.6	9.820	3250.0	2.872	34.951	264.3	2.597
50.0	9.144	35.062	277.6	9.138	3300.0	2.865	34.951	263.6	2.586
100.0	8.350	35.003	274.4	8.339	3350.0	2.870	34.951	263.5	2.585
150.0	7.985	34.970	274.7	7.970	3400.0	2.864	34.950	263.0	2.574
200.0	7.513	34.913	269.0	7.494	3450.0	2.860	34.950	262.6	2.564
250.0	6.742	34.877	234.5	6.719	3500.0	2.856	34.949	262.3	2.555
300.0	6.144	34.866	227.7	6.118	3550.0	2.850	34.949	261.7	2.543
350.0	5.939	34.922	224.7	5.909	3600.0	2.836	34.949	261.3	2.524
400.0	5.374	34.903	235.4	5.341	3645.0	2.797	34.947	258.8	2.481
450.0	5.033	34.909	243.7	4.997					
500.0	5.083	34.959	245.0	5.042					
550.0	4.852	34.957	250.7	4.808					
600.0	4.772	34.965	253.9	4.725					
650.0	4.614	34.954	257.7	4.563					
700.0	4.516	34.949	260.2	4.461					
750.0	4.382	34.941	263.7	4.324					
800.0	4.304	34.938	266.0	4.242					
850.0	4.143	34.922	270.3	4.078					
900.0	4.059	34.917	272.8	3.990					
950.0	3.991	34.913	274.2	3.919					
1000.0	3.926	34.910	275.6	3.851					
1050.0	3.875	34.907	276.9	3.795					
1100.0	3.840	34.907	277.2	3.757					
1150.0	3.762	34.898	280.5	3.675					
1200.0	3.733	34.898	281.0	3.642					
1250.0	3.735	34.902	279.3	3.640					
1300.0	3.689	34.900	280.3	3.590					
1350.0	3.655	34.898	281.5	3.552					
1400.0	3.649	34.901	280.5	3.542					
1450.0	3.638	34.902	280.1	3.527					
1500.0	3.628	34.905	279.2	3.512					
1550.0	3.624	34.909	277.8	3.504					
1600.0	3.629	34.914	276.1	3.504					
1650.0	3.625	34.918	274.3	3.495					
1700.0	3.611	34.922	273.2	3.477					
1750.0	3.599	34.924	272.3	3.461					
1800.0	3.576	34.926	271.9	3.434					
1850.0	3.551	34.928	271.7	3.405					
1900.0	3.528	34.928	271.5	3.377					
1950.0	3.494	34.928	271.4	3.339					
2000.0	3.477	34.929	271.4	3.318					
2050.0	3.446	34.930	271.5	3.282					
2100.0	3.424	34.930	271.6	3.256					
2150.0	3.383	34.931	271.8	3.211					
2200.0	3.348	34.932	271.8	3.171					
2250.0	3.313	34.933	272.0	3.132					
2300.0	3.286	34.935	272.0	3.101					
2350.0	3.261	34.937	272.1	3.071					
2400.0	3.240	34.937	272.1	3.046					
2450.0	3.219	34.939	272.1	3.020					
2500.0	3.197	34.942	272.3	2.994					
2550.0	3.170	34.944	272.1	2.962					
2600.0	3.153	34.946	272.0	2.940					
2650.0	3.120	34.947	271.8	2.903					
2700.0	3.086	34.948	271.5	2.864					
2750.0	3.063	34.950	271.2	2.836					
2800.0	3.022	34.952	270.3	2.792					
2850.0	2.991	34.953	269.5	2.756					
2900.0	2.965	34.952	268.3	2.726					
2950.0	2.942	34.952	267.2	2.697					
3000.0	2.920	34.953	266.4	2.671					



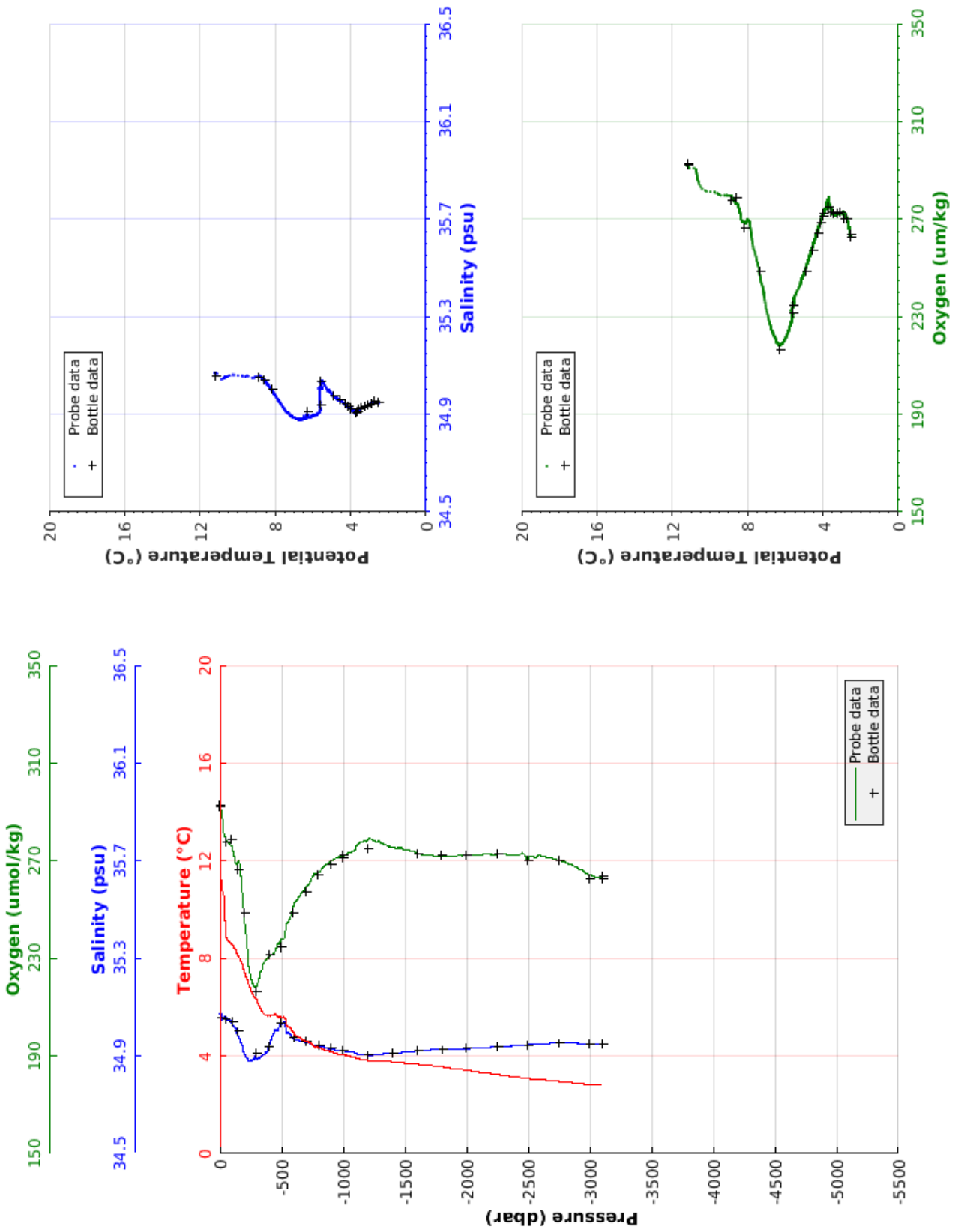
Station: 52


```

-----
| Cruise      : OVIDE 2018
| Station    : 53          Cast      : 1
| Date       : 28/06/2018   Ship     : N/O THALASSA
| Depth      : 3060 m      Organism : IFREMER
| Position   : N 54 0.96
|             W 025 32.00
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	11.193	35.071	292.7	11.193	3050.0	2.808	34.948	263.1	2.557
10.0	11.194	35.071	291.9	11.193	3100.0	2.811	34.949	263.4	2.554
20.0	10.764	35.046	290.6	10.762	3101.0	2.811	34.948	263.5	2.554
30.0	10.649	35.052	286.0	10.645					
40.0	9.741	35.056	280.9	9.736					
50.0	8.889	35.053	279.7	8.883					
100.0	8.543	35.034	276.1	8.532					
150.0	8.087	34.983	268.3	8.072					
200.0	7.394	34.908	249.0	7.375					
250.0	6.704	34.878	223.9	6.681					
300.0	6.287	34.895	218.4	6.260					
350.0	5.783	34.901	226.1	5.753					
400.0	5.658	34.942	230.4	5.624					
450.0	5.703	35.007	232.6	5.665					
500.0	5.577	35.030	237.4	5.535					
550.0	5.224	34.997	244.5	5.178					
600.0	4.911	34.971	251.1	4.862					
650.0	4.751	34.962	255.2	4.699					
700.0	4.593	34.955	259.0	4.538					
750.0	4.444	34.946	262.8	4.385					
800.0	4.347	34.943	265.1	4.285					
850.0	4.237	34.933	267.6	4.171					
900.0	4.160	34.928	269.8	4.091					
950.0	4.084	34.923	271.5	4.012					
1000.0	4.060	34.922	271.8	3.983					
1050.0	3.991	34.917	273.3	3.911					
1100.0	3.938	34.913	274.6	3.854					
1150.0	3.855	34.905	277.6	3.767					
1200.0	3.809	34.904	278.2	3.717					
1250.0	3.786	34.904	278.4	3.690					
1300.0	3.781	34.906	277.9	3.681					
1350.0	3.781	34.909	276.6	3.677					
1400.0	3.757	34.912	275.5	3.649					
1450.0	3.740	34.913	275.3	3.628					
1500.0	3.706	34.916	274.6	3.589					
1550.0	3.689	34.917	274.0	3.568					
1600.0	3.659	34.922	272.8	3.534					
1650.0	3.639	34.923	272.5	3.509					
1700.0	3.615	34.925	272.4	3.481					
1750.0	3.590	34.926	272.0	3.452					
1800.0	3.564	34.927	271.8	3.422					
1850.0	3.513	34.928	272.0	3.367					
1900.0	3.477	34.928	271.9	3.326					
1950.0	3.455	34.929	272.1	3.300					
2000.0	3.419	34.930	272.3	3.260					
2050.0	3.379	34.931	272.2	3.216					
2100.0	3.333	34.933	272.5	3.166					
2150.0	3.306	34.933	272.6	3.135					
2200.0	3.279	34.935	272.6	3.103					
2250.0	3.242	34.937	272.6	3.062					
2300.0	3.207	34.938	272.7	3.023					
2350.0	3.173	34.940	272.4	2.985					
2400.0	3.140	34.943	272.2	2.947					
2450.0	3.115	34.944	273.0	2.918					
2500.0	3.075	34.944	270.5	2.874					
2550.0	3.059	34.947	271.6	2.853					
2600.0	3.040	34.949	272.3	2.830					
2650.0	3.008	34.950	271.5	2.792					
2700.0	2.985	34.952	270.9	2.766					
2750.0	2.957	34.953	270.0	2.733					
2800.0	2.936	34.953	269.6	2.707					
2850.0	2.907	34.953	268.4	2.673					
2900.0	2.870	34.952	267.1	2.632					
2950.0	2.849	34.950	266.0	2.607					
3000.0	2.825	34.949	264.1	2.578					



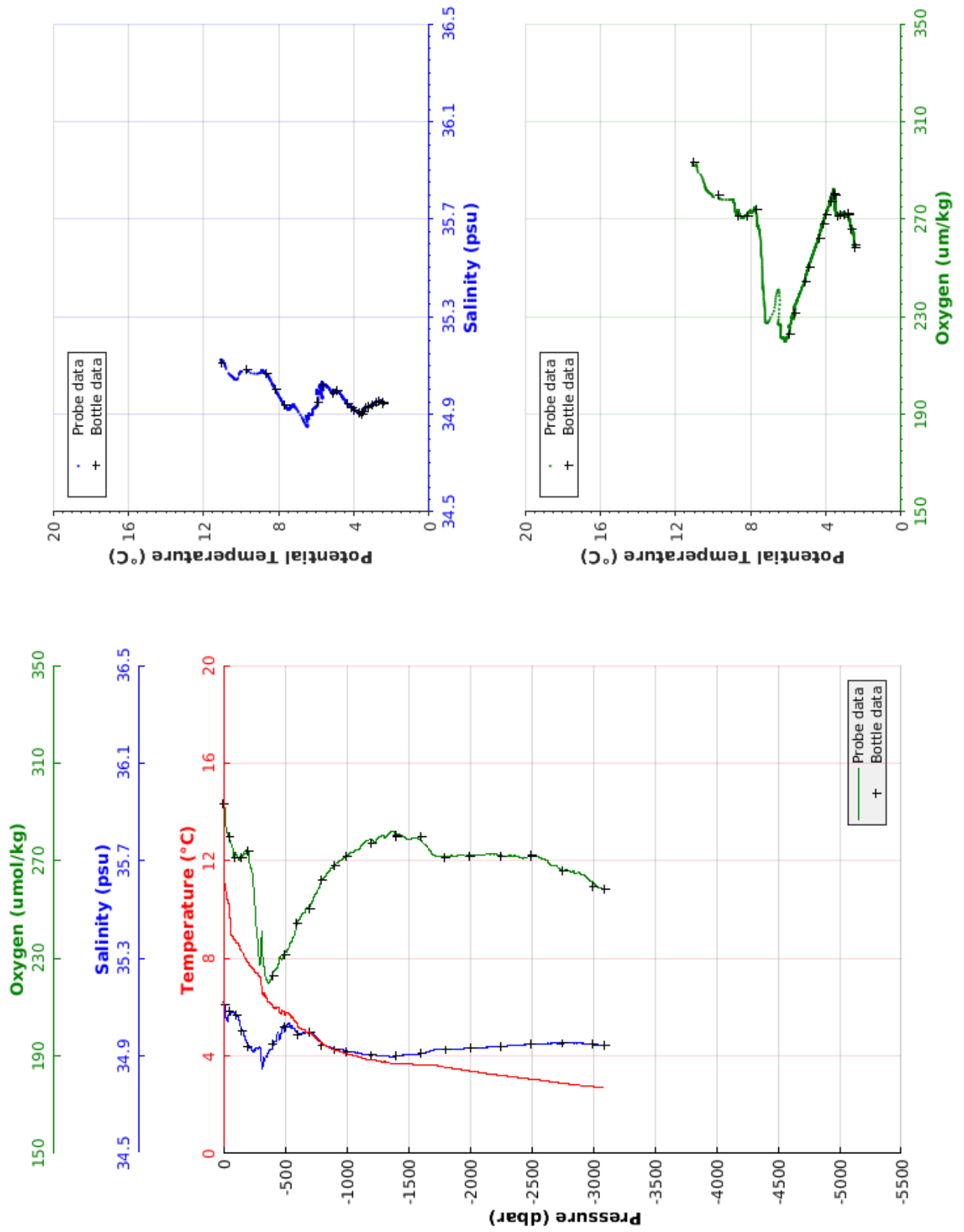
Station: 53

```

-----
| Cruise      : OVIDE 2018
| Station     : 54           Cast      : 1
| Date       : 28/06/2018   Ship     : N/O THALASSA
| Depth      : 3048 m       Organism : IFREMER
| Position   : N 54 23.26
|              W 025 49.82
-----
    
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	11.075	35.122	292.3	11.075	3050.0	2.713	34.943	258.8	2.463
10.0	11.043	35.121	291.8	11.042	3090.0	2.716	34.943	258.5	2.462
20.0	10.840	35.096	290.1	10.838					
30.0	10.417	35.050	282.9	10.414					
40.0	10.290	35.042	281.3	10.285					
50.0	10.039	35.075	279.3	10.033					
100.0	8.704	35.067	273.6	8.694					
150.0	8.269	35.012	271.5	8.254					
200.0	7.806	34.947	274.7	7.786					
250.0	7.481	34.920	259.3	7.456					
300.0	7.241	34.940	227.6	7.212					
350.0	6.419	34.903	221.5	6.388					
400.0	6.032	34.931	222.5	5.997					
450.0	5.898	34.990	227.4	5.859					
500.0	5.681	35.002	232.7	5.638					
550.0	5.574	35.015	236.5	5.527					
600.0	5.254	34.992	243.1	5.204					
650.0	5.075	34.995	248.2	5.021					
700.0	4.970	34.997	251.0	4.913					
750.0	4.745	34.980	256.0	4.684					
800.0	4.497	34.950	261.5	4.434					
850.0	4.363	34.938	265.0	4.296					
900.0	4.256	34.931	267.8	4.187					
950.0	4.173	34.926	270.0	4.100					
1000.0	4.110	34.922	271.6	4.033					
1050.0	4.033	34.916	273.6	3.952					
1100.0	3.969	34.913	274.7	3.884					
1150.0	3.879	34.905	277.5	3.791					
1200.0	3.838	34.902	279.0	3.746					
1250.0	3.802	34.903	278.6	3.706					
1300.0	3.754	34.899	280.5	3.654					
1350.0	3.717	34.898	281.2	3.614					
1400.0	3.698	34.899	281.1	3.591					
1450.0	3.690	34.902	280.2	3.578					
1500.0	3.682	34.906	278.8	3.566					
1550.0	3.645	34.905	279.4	3.525					
1600.0	3.633	34.908	278.9	3.508					
1650.0	3.638	34.915	276.3	3.508					
1700.0	3.634	34.924	272.7	3.500					
1750.0	3.589	34.926	271.8	3.451					
1800.0	3.538	34.928	271.7	3.396					
1850.0	3.496	34.928	272.0	3.350					
1900.0	3.461	34.929	271.9	3.311					
1950.0	3.427	34.930	272.1	3.273					
2000.0	3.384	34.932	272.2	3.226					
2050.0	3.346	34.933	272.3	3.183					
2100.0	3.291	34.933	272.3	3.124					
2150.0	3.273	34.936	272.7	3.102					
2200.0	3.243	34.937	272.5	3.068					
2250.0	3.195	34.939	272.0	3.016					
2300.0	3.173	34.941	271.8	2.990					
2350.0	3.142	34.943	271.9	2.954					
2400.0	3.113	34.944	271.5	2.921					
2450.0	3.081	34.947	271.4	2.885					
2500.0	3.052	34.948	272.0	2.851					
2550.0	3.025	34.950	271.6	2.820					
2600.0	2.990	34.951	270.7	2.780					
2650.0	2.952	34.951	268.4	2.738					
2700.0	2.928	34.952	268.0	2.709					
2750.0	2.870	34.952	266.3	2.647					
2800.0	2.843	34.952	266.0	2.616					
2850.0	2.816	34.952	265.3	2.584					
2900.0	2.794	34.952	264.8	2.558					
2950.0	2.768	34.949	263.1	2.528					
3000.0	2.742	34.946	261.2	2.497					



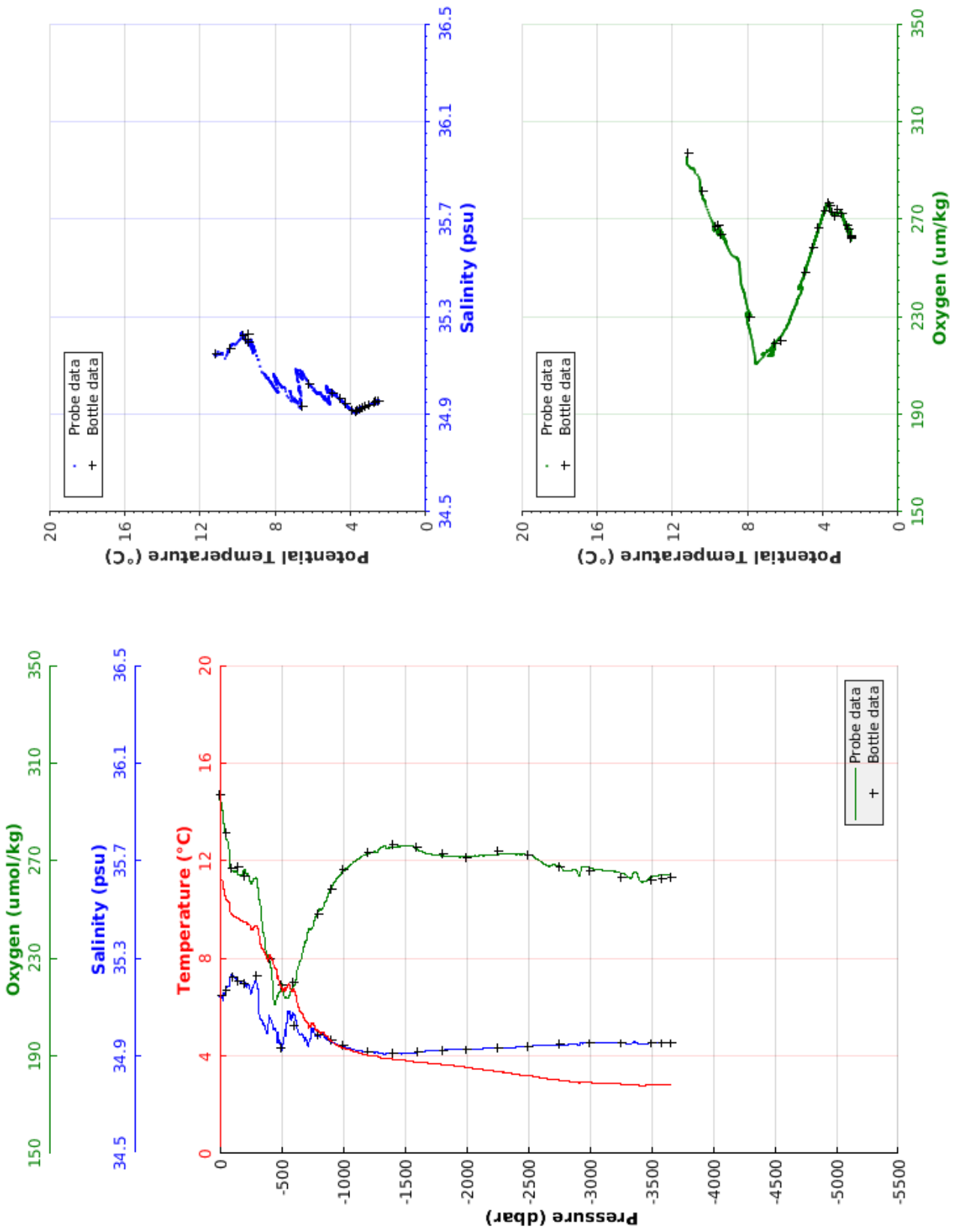


Station: 54

```

-----
| Cruise      : OVIDE 2018
| Station    : 55          Cast      : 1
| Date       : 28/06/2018   Ship       : N/O THALASSA
| Depth      : 3607 m      Organism  : IFREMER
| Position   : N 54 45.70
|             W 026 7.49
-----
    
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	11.222	35.144	294.8	11.222	3050.0	2.889	34.953	266.6	2.635
10.0	11.220	35.145	295.2	11.219	3100.0	2.880	34.953	266.2	2.621
20.0	11.219	35.144	292.9	11.217	3150.0	2.871	34.953	265.7	2.607
30.0	10.852	35.149	290.5	10.849	3200.0	2.866	34.953	265.6	2.597
40.0	10.544	35.155	284.8	10.540	3250.0	2.851	34.952	265.0	2.577
50.0	10.479	35.165	280.5	10.473	3300.0	2.829	34.950	264.1	2.550
100.0	9.787	35.234	265.3	9.776	3350.0	2.833	34.955	264.2	2.549
150.0	9.633	35.211	265.0	9.616	3400.0	2.791	34.948	262.6	2.502
200.0	9.512	35.200	266.2	9.489	3450.0	2.796	34.949	261.6	2.502
250.0	9.261	35.166	261.8	9.233	3500.0	2.812	34.954	263.3	2.512
300.0	9.319	35.201	263.0	9.285	3550.0	2.819	34.955	263.8	2.513
350.0	8.374	35.042	243.3	8.337	3600.0	2.827	34.956	264.3	2.515
400.0	8.061	35.045	231.4	8.020	3650.0	2.832	34.956	264.3	2.514
450.0	7.606	35.012	210.9	7.561	3664.0	2.834	34.956	264.3	2.514
500.0	6.777	34.930	217.5	6.730					
550.0	6.883	35.051	213.9	6.831					
600.0	6.642	35.070	218.1	6.586					
650.0	5.839	34.986	228.0	5.782					
700.0	5.442	34.971	236.6	5.382					
750.0	5.301	35.004	242.0	5.237					
800.0	4.980	34.981	248.8	4.914					
850.0	4.885	34.980	251.8	4.816					
900.0	4.644	34.962	257.7	4.572					
950.0	4.448	34.947	262.6	4.373					
1000.0	4.330	34.937	265.6	4.251					
1050.0	4.251	34.932	267.4	4.168					
1100.0	4.156	34.924	269.8	4.070					
1150.0	4.094	34.921	271.5	4.004					
1200.0	4.031	34.917	272.8	3.938					
1250.0	3.997	34.914	273.5	3.899					
1300.0	3.932	34.910	275.1	3.830					
1350.0	3.904	34.911	275.6	3.798					
1400.0	3.872	34.909	275.4	3.762					
1450.0	3.843	34.909	275.8	3.729					
1500.0	3.819	34.909	276.2	3.701					
1550.0	3.778	34.910	276.2	3.656					
1600.0	3.758	34.914	274.9	3.632					
1650.0	3.728	34.918	273.7	3.597					
1700.0	3.707	34.921	272.7	3.572					
1750.0	3.681	34.922	272.4	3.542					
1800.0	3.649	34.924	272.0	3.505					
1850.0	3.623	34.926	271.7	3.475					
1900.0	3.599	34.926	271.7	3.447					
1950.0	3.569	34.927	271.5	3.413					
2000.0	3.536	34.928	271.7	3.375					
2050.0	3.495	34.929	271.8	3.330					
2100.0	3.459	34.929	272.0	3.290					
2150.0	3.438	34.930	272.2	3.265					
2200.0	3.397	34.931	272.3	3.220					
2250.0	3.367	34.932	272.4	3.185					
2300.0	3.333	34.933	272.7	3.147					
2350.0	3.296	34.934	272.6	3.105					
2400.0	3.258	34.936	272.7	3.063					
2450.0	3.222	34.938	272.6	3.023					
2500.0	3.193	34.940	272.4	2.989					
2550.0	3.154	34.942	271.6	2.946					
2600.0	3.112	34.942	269.9	2.900					
2650.0	3.065	34.942	268.2	2.849					
2700.0	3.036	34.945	268.2	2.815					
2750.0	3.006	34.946	267.8	2.781					
2800.0	2.966	34.945	265.8	2.737					
2850.0	2.950	34.947	265.8	2.716					
2900.0	2.927	34.947	265.4	2.688					
2950.0	2.924	34.953	267.4	2.680					
3000.0	2.908	34.953	267.2	2.659					



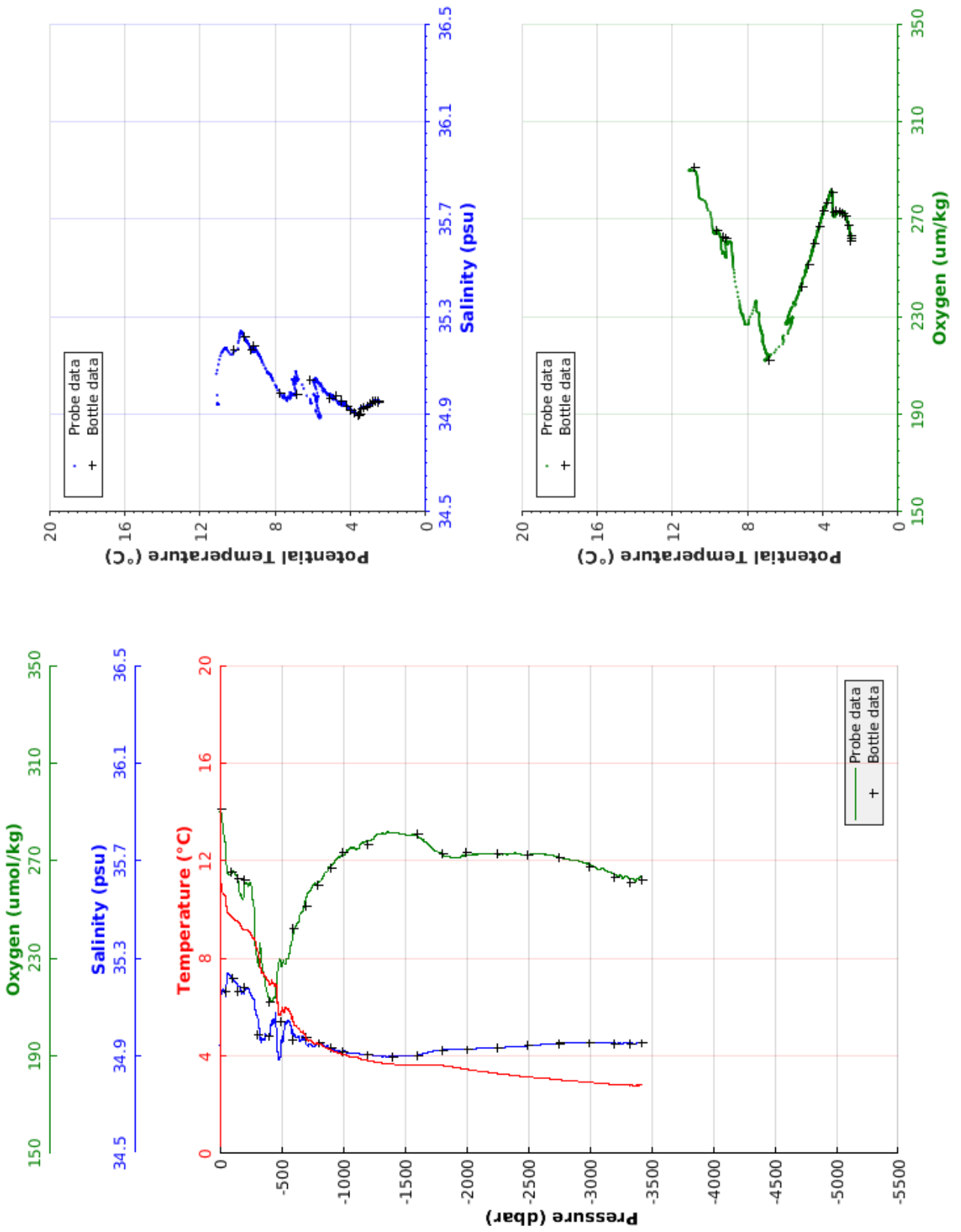
Station: 55

```

-----
| Cruise      : OVIDE 2018
| Station    : 56          Cast      : 1
| Date       : 29/06/2018   Ship     : N/O THALASSA
| Depth      : 3379 m      Organism : IFREMER
| Position   : N 55 9.00
|             W 026 24.47
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	11.047	34.941	290.0	11.047	3050.0	2.889	34.953	267.2	2.636
10.0	11.087	35.081	289.9	11.086	3100.0	2.875	34.956	266.8	2.616
20.0	10.727	35.167	288.7	10.725	3150.0	2.850	34.954	265.6	2.587
30.0	10.643	35.172	284.1	10.639	3200.0	2.828	34.951	264.4	2.560
40.0	10.595	35.170	280.3	10.590	3250.0	2.816	34.952	264.0	2.543
50.0	10.233	35.154	276.9	10.227	3300.0	2.810	34.953	263.7	2.531
100.0	9.681	35.219	264.4	9.669	3350.0	2.791	34.951	262.7	2.508
150.0	9.460	35.191	262.7	9.443	3400.0	2.798	34.954	263.0	2.508
200.0	9.150	35.160	256.7	9.128	3428.0	2.803	34.955	263.6	2.511
250.0	8.973	35.154	260.8	8.946					
300.0	8.375	35.066	231.9	8.344					
350.0	7.380	34.970	226.0	7.346					
400.0	6.996	34.981	214.2	6.958					
450.0	6.888	35.053	214.2	6.845					
500.0	5.860	34.949	228.2	5.817					
550.0	5.922	35.042	229.7	5.873					
600.0	5.334	34.988	239.8	5.284					
650.0	5.023	34.966	246.8	4.970					
700.0	4.726	34.949	254.1	4.670					
750.0	4.554	34.941	258.7	4.495					
800.0	4.483	34.946	261.2	4.420					
850.0	4.369	34.941	264.3	4.302					
900.0	4.250	34.930	267.8	4.180					
950.0	4.148	34.922	270.5	4.075					
1000.0	4.083	34.920	272.1	4.006					
1050.0	3.980	34.911	274.5	3.900					
1100.0	3.949	34.913	274.8	3.865					
1150.0	3.861	34.905	277.3	3.773					
1200.0	3.814	34.903	278.3	3.722					
1250.0	3.772	34.902	278.9	3.676					
1300.0	3.719	34.898	280.9	3.620					
1350.0	3.689	34.898	281.3	3.585					
1400.0	3.660	34.898	281.4	3.552					
1450.0	3.647	34.899	281.2	3.535					
1500.0	3.638	34.901	280.8	3.522					
1550.0	3.617	34.902	280.6	3.496					
1600.0	3.613	34.903	280.4	3.488					
1650.0	3.611	34.909	278.4	3.482					
1700.0	3.625	34.915	276.3	3.491					
1750.0	3.624	34.921	273.9	3.486					
1800.0	3.604	34.924	273.1	3.461					
1850.0	3.571	34.926	271.6	3.424					
1900.0	3.539	34.927	271.4	3.388					
1950.0	3.504	34.929	271.4	3.348					
2000.0	3.460	34.929	272.0	3.300					
2050.0	3.415	34.929	272.4	3.251					
2100.0	3.379	34.931	272.6	3.211					
2150.0	3.346	34.932	272.7	3.174					
2200.0	3.317	34.933	272.8	3.141					
2250.0	3.283	34.934	272.9	3.103					
2300.0	3.245	34.935	272.6	3.060					
2350.0	3.224	34.936	272.7	3.035					
2400.0	3.187	34.938	272.9	2.993					
2450.0	3.159	34.940	272.4	2.962					
2500.0	3.135	34.941	272.2	2.932					
2550.0	3.111	34.945	272.8	2.904					
2600.0	3.093	34.946	272.9	2.882					
2650.0	3.074	34.948	272.4	2.858					
2700.0	3.053	34.950	272.2	2.832					
2750.0	3.021	34.951	271.4	2.795					
2800.0	3.005	34.952	270.9	2.775					
2850.0	2.984	34.953	270.2	2.749					
2900.0	2.960	34.954	270.1	2.720					
2950.0	2.940	34.954	269.2	2.696					
3000.0	2.922	34.955	268.5	2.673					



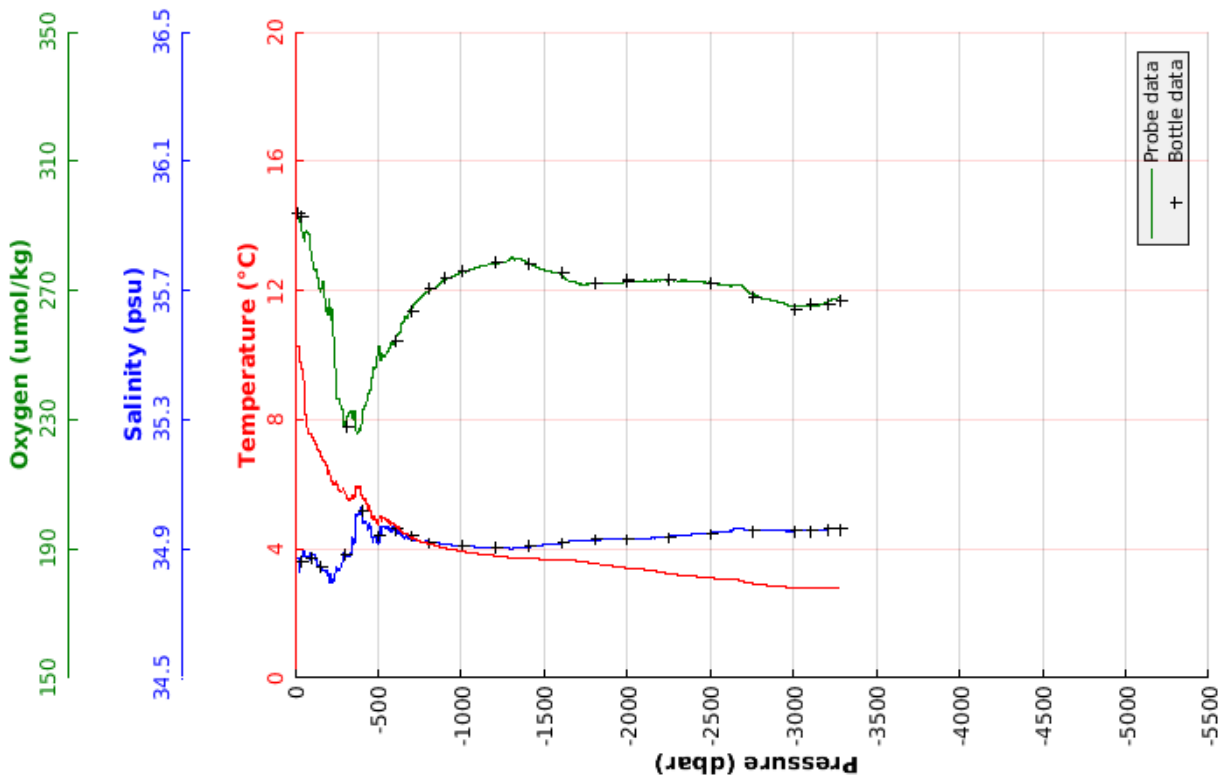
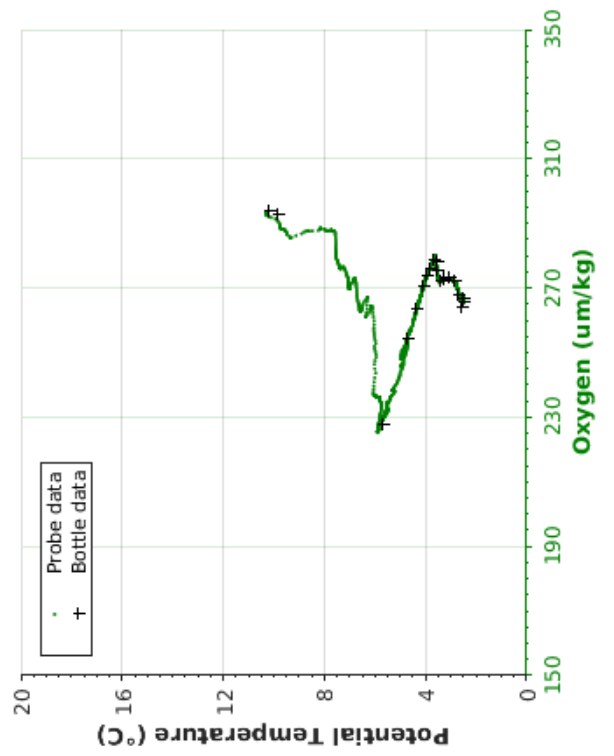
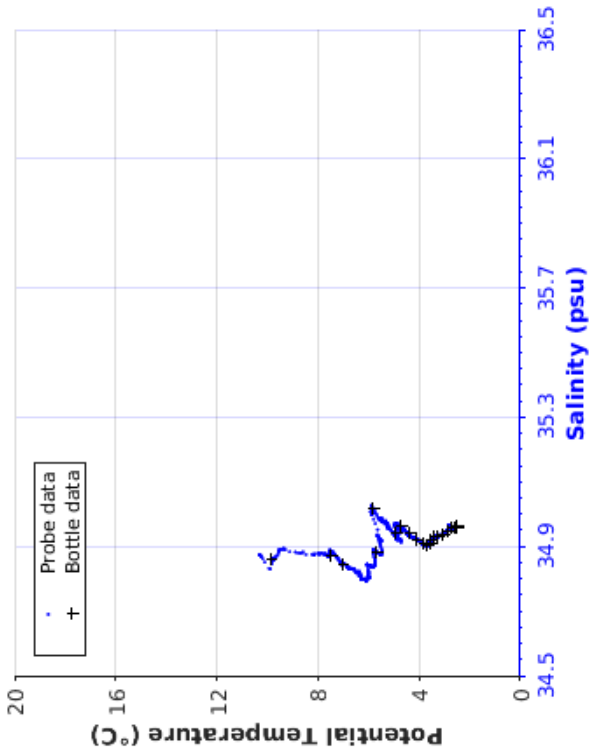
Station: 56


```

-----
| Cruise      : OVIDE 2018
| Station    : 57          Cast      : 1
| Date       : 29/06/2018   Ship       : N/O THALASSA
| Depth      : 3232 m       Organism  : IFREMER
| Position   : N 55 30.31
|             W 026 42.48
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	10.291	34.873	293.1	10.291	3050.0	2.797	34.956	265.2	2.546
10.0	10.291	34.873	293.1	10.290	3100.0	2.791	34.958	265.1	2.534
20.0	10.290	34.873	292.6	10.288	3150.0	2.793	34.958	265.3	2.531
30.0	9.783	34.858	289.8	9.780	3200.0	2.799	34.961	266.5	2.532
40.0	9.595	34.874	288.0	9.590	3250.0	2.810	34.963	267.3	2.537
50.0	9.360	34.893	285.6	9.355	3279.0	2.814	34.964	267.9	2.538
100.0	7.543	34.888	279.5	7.534					
150.0	7.013	34.848	269.7	6.999					
200.0	6.310	34.798	267.1	6.293					
250.0	6.008	34.841	236.6	5.986					
300.0	5.727	34.882	229.2	5.702					
350.0	5.599	34.923	231.1	5.570					
400.0	5.687	34.994	230.4	5.653					
450.0	5.277	34.968	239.1	5.240					
500.0	4.747	34.915	252.8	4.708					
550.0	4.878	34.961	251.1	4.834					
600.0	4.741	34.958	254.8	4.693					
650.0	4.503	34.939	260.6	4.452					
700.0	4.357	34.930	264.5	4.303					
750.0	4.250	34.925	267.6	4.193					
800.0	4.171	34.923	270.0	4.110					
850.0	4.102	34.920	271.4	4.037					
900.0	4.032	34.915	273.3	3.963					
950.0	3.977	34.911	274.6	3.905					
1000.0	3.927	34.909	275.5	3.851					
1050.0	3.885	34.908	276.4	3.805					
1100.0	3.848	34.906	277.3	3.765					
1150.0	3.821	34.905	277.6	3.734					
1200.0	3.793	34.904	278.3	3.702					
1250.0	3.762	34.903	278.8	3.666					
1300.0	3.720	34.901	280.1	3.621					
1350.0	3.702	34.902	279.7	3.599					
1400.0	3.701	34.906	278.4	3.593					
1450.0	3.695	34.909	277.2	3.582					
1500.0	3.679	34.913	276.2	3.563					
1550.0	3.666	34.915	275.6	3.545					
1600.0	3.658	34.918	274.9	3.533					
1650.0	3.655	34.923	272.8	3.525					
1700.0	3.621	34.925	272.2	3.488					
1750.0	3.584	34.927	272.0	3.446					
1800.0	3.548	34.927	272.3	3.406					
1850.0	3.508	34.928	272.3	3.362					
1900.0	3.475	34.929	272.4	3.325					
1950.0	3.449	34.932	272.3	3.295					
2000.0	3.406	34.931	272.7	3.247					
2050.0	3.388	34.931	272.7	3.225					
2100.0	3.364	34.932	273.0	3.196					
2150.0	3.347	34.935	272.9	3.175					
2200.0	3.270	34.935	273.1	3.094					
2250.0	3.242	34.937	273.2	3.062					
2300.0	3.202	34.939	273.0	3.018					
2350.0	3.174	34.942	273.0	2.985					
2400.0	3.156	34.945	272.8	2.963					
2450.0	3.131	34.946	272.8	2.934					
2500.0	3.100	34.948	272.5	2.898					
2550.0	3.085	34.952	271.9	2.878					
2600.0	3.054	34.954	271.6	2.843					
2650.0	3.049	34.963	271.7	2.833					
2700.0	2.980	34.959	270.8	2.760					
2750.0	2.929	34.957	268.9	2.706					
2800.0	2.892	34.956	267.9	2.664					
2850.0	2.870	34.956	267.2	2.638					
2900.0	2.850	34.956	266.5	2.613					
2950.0	2.825	34.956	265.8	2.583					
3000.0	2.808	34.955	265.2	2.561					



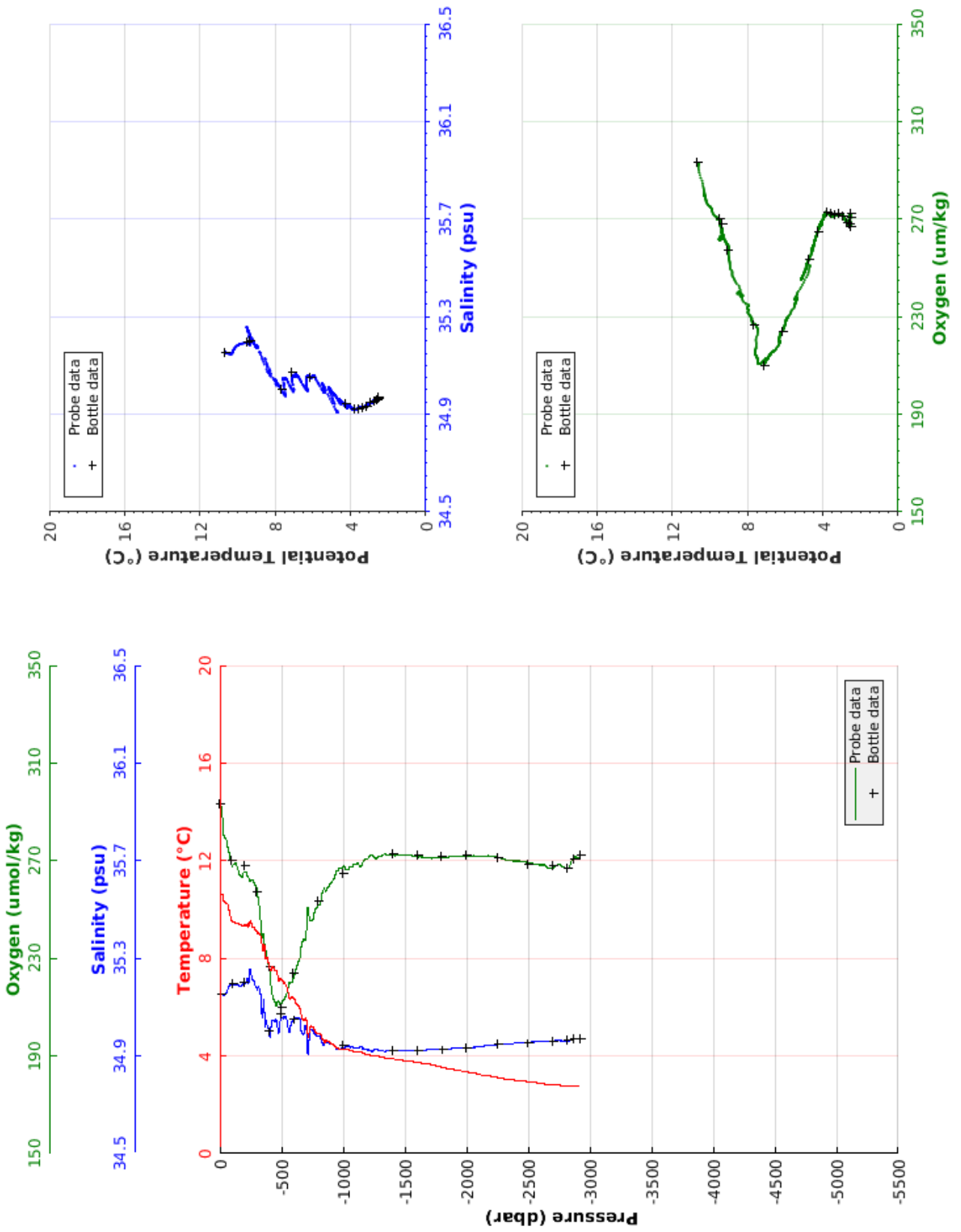
Station: 57

```

-----
| Cruise      : OVIDE 2018
| Station     : 58           Cast      : 1
| Date       : 29/06/2018   Ship       : N/O THALASSA
| Depth      : 2884 m       Organism  : IFREMER
| Position   : N 55 52.94
|             W 026 59.84
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	10.631	35.153	292.9	10.631
10.0	10.632	35.153	292.5	10.631
20.0	10.628	35.153	292.3	10.625
30.0	10.389	35.146	284.6	10.386
40.0	10.295	35.151	280.1	10.290
50.0	10.270	35.156	279.1	10.264
100.0	9.503	35.193	269.4	9.492
150.0	9.402	35.189	266.9	9.385
200.0	9.365	35.199	265.2	9.343
250.0	9.526	35.253	261.4	9.498
300.0	9.080	35.180	259.5	9.047
350.0	8.296	35.058	238.4	8.260
400.0	7.757	35.006	227.3	7.717
450.0	7.516	35.043	212.2	7.472
500.0	7.126	35.053	211.2	7.078
550.0	6.681	35.035	215.8	6.630
600.0	6.367	35.055	221.5	6.312
650.0	5.957	35.053	229.4	5.899
700.0	5.501	35.018	238.0	5.441
750.0	5.198	35.006	245.5	5.135
800.0	4.932	34.982	251.3	4.866
850.0	4.568	34.943	258.7	4.500
900.0	4.517	34.950	260.8	4.445
950.0	4.323	34.929	265.5	4.248
1000.0	4.255	34.928	267.4	4.177
1050.0	4.260	34.939	266.5	4.178
1100.0	4.175	34.933	268.6	4.089
1150.0	4.171	34.937	267.6	4.080
1200.0	4.063	34.925	270.7	3.969
1250.0	4.004	34.923	271.7	3.906
1300.0	3.967	34.922	271.8	3.865
1350.0	3.915	34.920	272.6	3.810
1400.0	3.877	34.920	272.1	3.768
1450.0	3.848	34.921	272.1	3.734
1500.0	3.814	34.920	272.4	3.696
1550.0	3.783	34.921	272.2	3.661
1600.0	3.740	34.923	271.8	3.614
1650.0	3.702	34.924	271.5	3.572
1700.0	3.665	34.925	271.1	3.531
1750.0	3.609	34.927	271.1	3.471
1800.0	3.540	34.928	271.3	3.398
1850.0	3.486	34.929	271.5	3.340
1900.0	3.436	34.931	271.6	3.287
1950.0	3.398	34.932	271.7	3.244
2000.0	3.338	34.933	271.9	3.181
2050.0	3.305	34.935	271.9	3.143
2100.0	3.247	34.938	272.0	3.082
2150.0	3.189	34.941	271.9	3.020
2200.0	3.170	34.944	271.9	2.996
2250.0	3.126	34.946	271.6	2.948
2300.0	3.070	34.947	270.7	2.888
2350.0	3.043	34.949	270.3	2.857
2400.0	3.003	34.952	269.9	2.813
2450.0	2.976	34.954	269.8	2.781
2500.0	2.946	34.955	269.2	2.747
2550.0	2.915	34.957	268.6	2.712
2600.0	2.871	34.959	268.4	2.664
2650.0	2.832	34.959	267.7	2.620
2700.0	2.804	34.959	267.0	2.588
2750.0	2.803	34.963	268.4	2.581
2800.0	2.773	34.961	267.2	2.548
2850.0	2.784	34.967	269.2	2.553
2900.0	2.788	34.970	271.5	2.552
2921.0	2.789	34.969	271.3	2.551



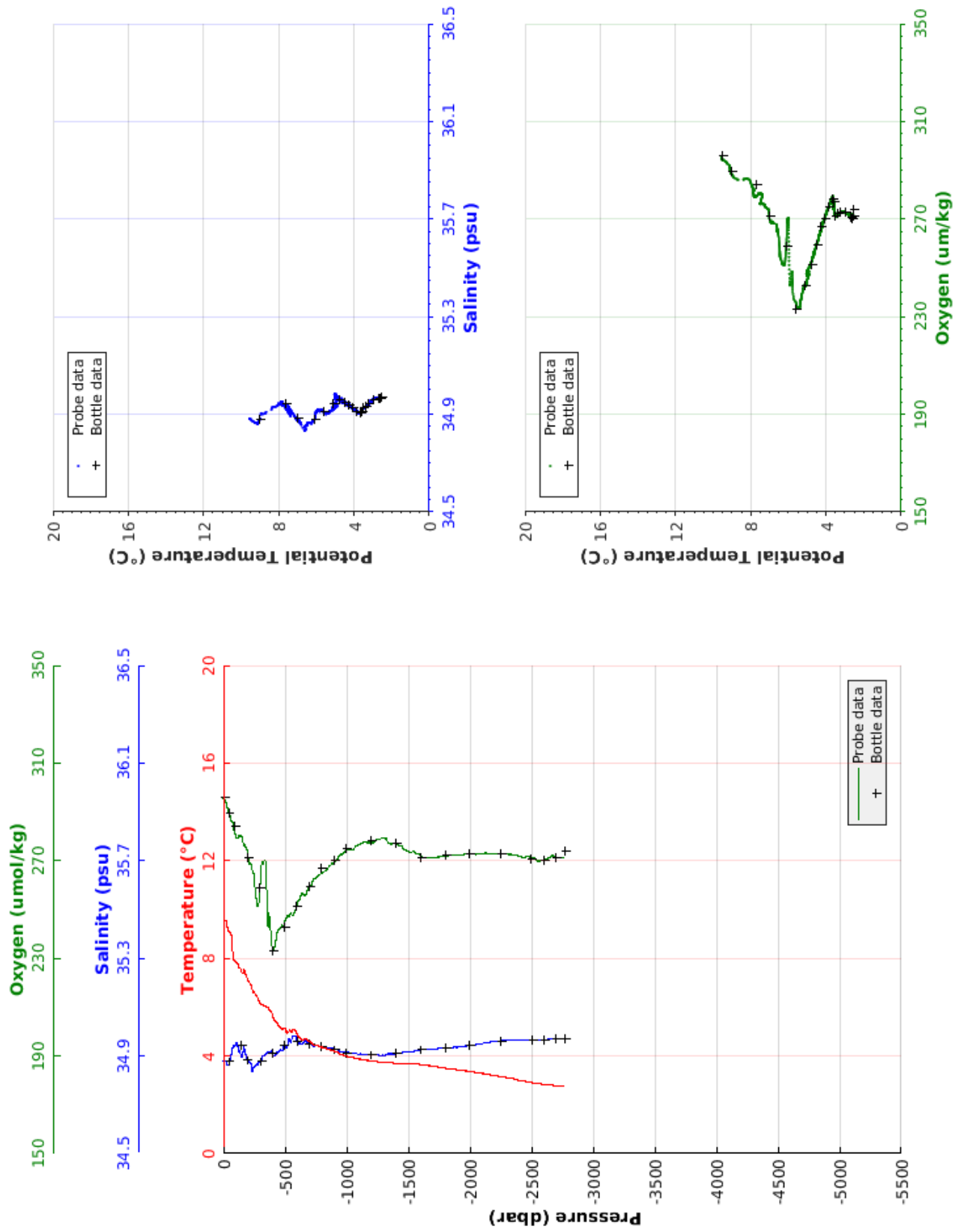
Station: 58

```

-----
| Cruise      : OVIDE 2018
| Station     : 59           Cast      : 1
| Date        : 29/06/2018   Ship       : N/O THALASSA
| Depth       : 2739 m       Organism  : IFREMER
| Position    : N 56 15.14
|              W 027 17.39
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	9.563	34.881	295.2	9.563
10.0	9.566	34.881	295.1	9.564
20.0	9.523	34.881	294.8	9.521
30.0	9.312	34.868	293.5	9.309
40.0	9.109	34.863	291.3	9.104
50.0	9.073	34.869	289.5	9.068
100.0	7.855	34.945	281.4	7.845
150.0	7.411	34.898	280.2	7.397
200.0	7.090	34.882	274.0	7.071
250.0	6.609	34.852	264.9	6.587
300.0	6.150	34.875	257.6	6.124
350.0	6.025	34.908	268.1	5.995
400.0	5.592	34.904	234.7	5.558
450.0	5.232	34.914	241.8	5.195
500.0	5.119	34.942	243.5	5.079
550.0	4.964	34.956	248.4	4.920
600.0	4.865	34.962	251.4	4.817
650.0	4.671	34.952	256.6	4.619
700.0	4.571	34.950	259.1	4.516
750.0	4.446	34.944	262.6	4.388
800.0	4.352	34.938	265.0	4.290
850.0	4.282	34.935	266.7	4.216
900.0	4.194	34.930	268.9	4.124
950.0	4.059	34.918	272.4	3.987
1000.0	3.984	34.913	274.3	3.908
1050.0	3.942	34.913	274.5	3.862
1100.0	3.877	34.907	276.6	3.793
1150.0	3.829	34.905	277.5	3.741
1200.0	3.799	34.905	277.8	3.708
1250.0	3.761	34.904	278.5	3.665
1300.0	3.729	34.903	279.2	3.630
1350.0	3.735	34.909	277.2	3.631
1400.0	3.701	34.909	277.2	3.593
1450.0	3.692	34.913	275.9	3.580
1500.0	3.694	34.918	273.9	3.577
1550.0	3.669	34.919	273.9	3.548
1600.0	3.652	34.924	272.3	3.527
1650.0	3.615	34.928	271.2	3.486
1700.0	3.581	34.929	271.3	3.448
1750.0	3.542	34.930	271.5	3.404
1800.0	3.495	34.932	271.9	3.354
1850.0	3.459	34.934	272.1	3.314
1900.0	3.426	34.936	272.2	3.276
1950.0	3.404	34.940	272.5	3.250
2000.0	3.374	34.945	272.7	3.216
2050.0	3.331	34.946	272.6	3.168
2100.0	3.284	34.950	272.8	3.118
2150.0	3.231	34.957	273.0	3.061
2200.0	3.190	34.958	272.9	3.015
2250.0	3.148	34.962	272.8	2.970
2300.0	3.112	34.964	272.7	2.930
2350.0	3.073	34.965	272.5	2.886
2400.0	3.003	34.966	272.0	2.812
2450.0	2.960	34.965	271.2	2.766
2500.0	2.907	34.965	270.8	2.709
2550.0	2.866	34.964	269.9	2.664
2600.0	2.826	34.966	270.1	2.619
2650.0	2.803	34.968	271.1	2.592
2700.0	2.780	34.969	271.2	2.564
2750.0	2.776	34.969	271.5	2.556
2773.0	2.777	34.969	271.4	2.554



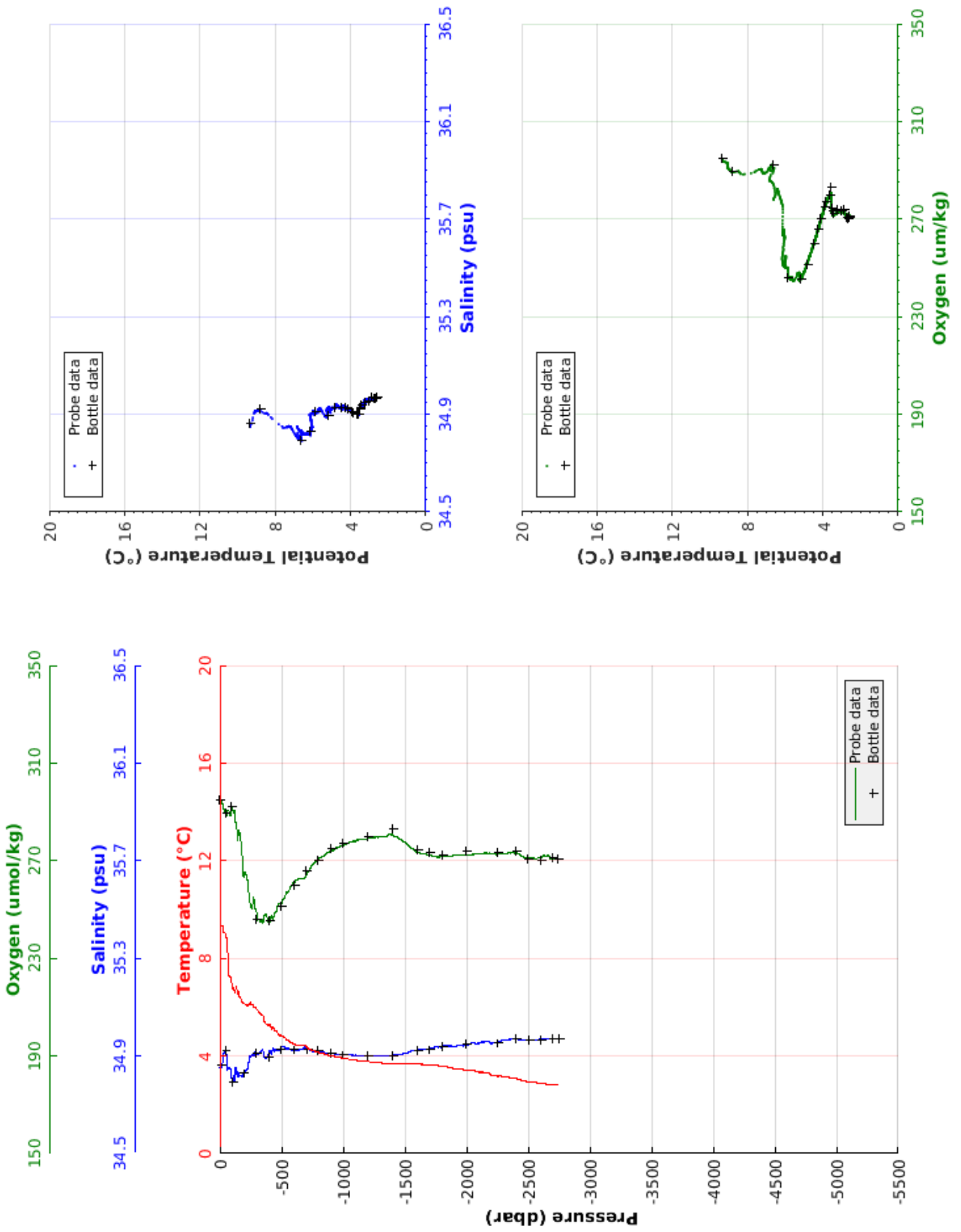
Station: 59

```

-----
| Cruise      : OVIDE 2018
| Station     : 60           Cast      : 1
| Date       : 30/06/2018   Ship     : N/O THALASSA
| Depth      : 2714 m       Organism : IFREMER
| Position   : N 56 37.63
|             W 027 34.77
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	9.339	34.852	294.3	9.339
10.0	9.339	34.853	294.2	9.338
20.0	9.327	34.854	294.0	9.325
30.0	9.082	34.910	292.9	9.078
40.0	9.046	34.913	291.0	9.042
50.0	8.867	34.914	289.7	8.861
100.0	6.891	34.810	290.7	6.882
150.0	6.621	34.833	278.5	6.607
200.0	6.131	34.834	263.3	6.113
250.0	6.172	34.898	252.9	6.151
300.0	5.883	34.905	249.9	5.857
350.0	5.676	34.926	245.6	5.646
400.0	5.308	34.917	245.0	5.275
450.0	5.023	34.922	248.5	4.987
500.0	4.831	34.933	252.7	4.791
550.0	4.647	34.931	257.0	4.604
600.0	4.482	34.922	260.8	4.436
650.0	4.420	34.925	262.5	4.370
700.0	4.393	34.934	263.4	4.339
750.0	4.222	34.920	268.0	4.165
800.0	4.150	34.918	270.2	4.090
850.0	4.074	34.914	272.2	4.010
900.0	4.008	34.912	274.1	3.940
950.0	3.950	34.908	275.2	3.878
1000.0	3.914	34.906	276.0	3.838
1050.0	3.863	34.904	277.3	3.783
1100.0	3.826	34.903	277.9	3.743
1150.0	3.789	34.902	278.8	3.702
1200.0	3.770	34.902	279.0	3.679
1250.0	3.740	34.901	279.6	3.645
1300.0	3.718	34.901	279.7	3.618
1350.0	3.700	34.902	279.8	3.596
1400.0	3.670	34.901	280.7	3.563
1450.0	3.665	34.906	279.4	3.553
1500.0	3.664	34.911	277.7	3.548
1550.0	3.672	34.918	275.3	3.551
1600.0	3.667	34.924	273.5	3.541
1650.0	3.648	34.927	273.0	3.519
1700.0	3.635	34.930	272.3	3.501
1750.0	3.615	34.936	271.6	3.476
1800.0	3.579	34.938	271.6	3.436
1850.0	3.547	34.942	271.8	3.401
1900.0	3.478	34.936	272.3	3.327
1950.0	3.457	34.942	272.3	3.302
2000.0	3.421	34.945	272.5	3.262
2050.0	3.404	34.956	272.6	3.241
2100.0	3.337	34.952	272.9	3.170
2150.0	3.314	34.959	273.1	3.142
2200.0	3.211	34.951	273.0	3.037
2250.0	3.168	34.955	272.5	2.989
2300.0	3.153	34.964	273.1	2.970
2350.0	3.116	34.968	273.2	2.928
2400.0	3.070	34.968	273.1	2.879
2450.0	3.001	34.965	271.8	2.806
2500.0	2.948	34.966	271.3	2.749
2550.0	2.918	34.966	271.0	2.714
2600.0	2.870	34.968	271.2	2.663
2650.0	2.845	34.970	272.0	2.633
2700.0	2.815	34.969	270.9	2.598
2750.0	2.809	34.969	270.7	2.588



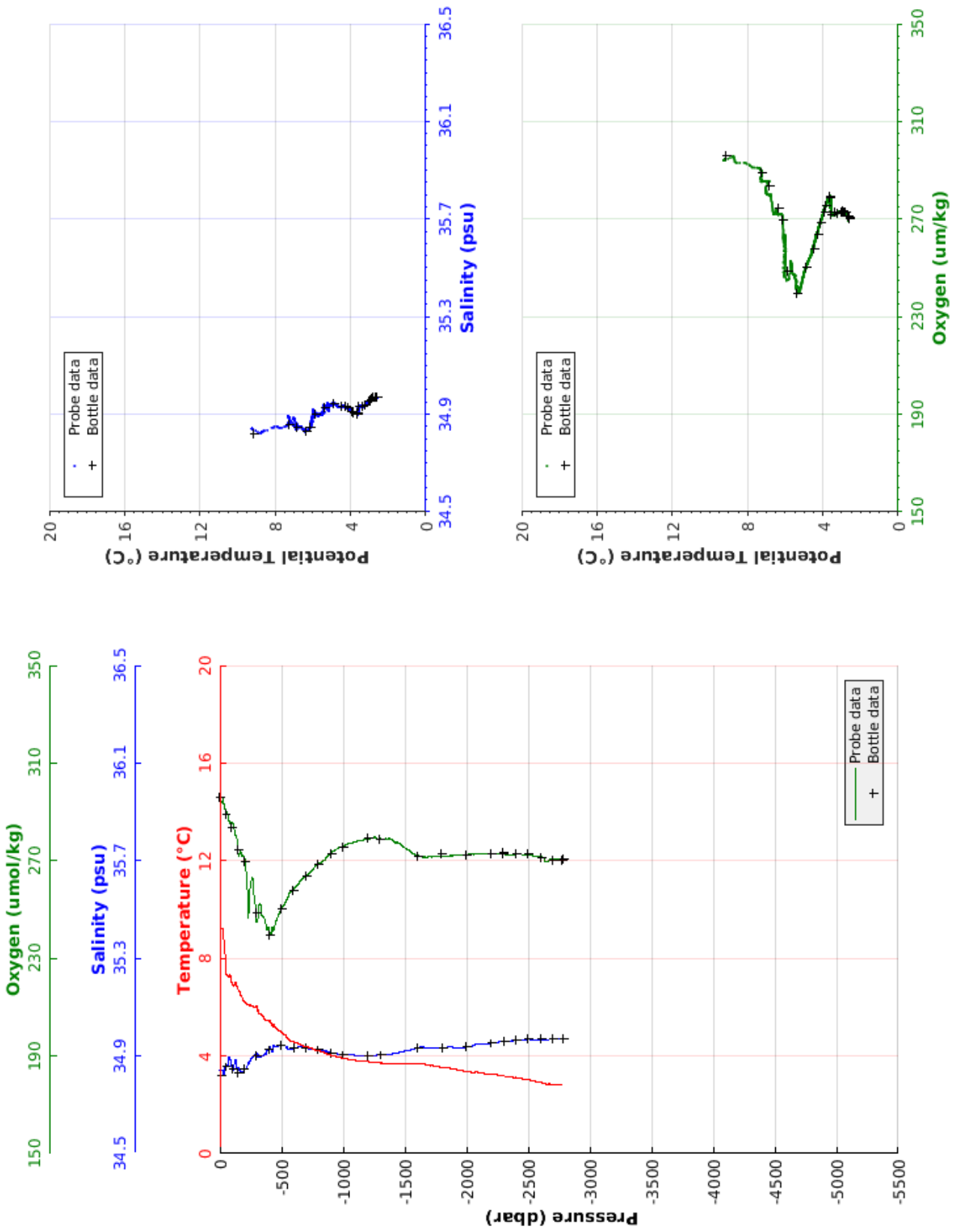
Station: 60


```

-----
| Cruise      : OVIDE 2018
| Station    : 61          Cast      : 1
| Date       : 30/06/2018   Ship     : N/O THALASSA
| Depth      : 2747 m      Organism : IFREMER
| Position   : N 57 0.15
|             W 027 52.58
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	9.227	34.841	294.4	9.227
10.0	9.225	34.841	294.1	9.224
20.0	9.230	34.840	294.0	9.228
30.0	8.928	34.827	295.1	8.924
40.0	8.585	34.833	293.0	8.581
50.0	7.517	34.848	291.0	7.512
100.0	7.011	34.854	285.3	7.002
150.0	6.711	34.851	276.1	6.697
200.0	6.217	34.845	272.0	6.200
250.0	6.051	34.883	258.1	6.029
300.0	6.006	34.916	246.0	5.980
350.0	5.617	34.901	247.3	5.587
400.0	5.418	34.928	242.6	5.384
450.0	5.176	34.939	243.1	5.139
500.0	4.948	34.944	249.9	4.908
550.0	4.738	34.933	254.1	4.695
600.0	4.568	34.930	258.1	4.521
650.0	4.474	34.937	261.0	4.424
700.0	4.370	34.933	264.1	4.316
750.0	4.312	34.931	265.8	4.254
800.0	4.205	34.925	268.5	4.144
850.0	4.132	34.922	270.3	4.067
900.0	4.025	34.913	272.8	3.957
950.0	3.968	34.909	274.6	3.896
1000.0	3.915	34.907	275.7	3.840
1050.0	3.866	34.905	277.0	3.786
1100.0	3.818	34.903	277.9	3.735
1150.0	3.798	34.902	278.3	3.711
1200.0	3.767	34.902	278.7	3.676
1250.0	3.734	34.902	279.5	3.639
1300.0	3.713	34.904	279.1	3.614
1350.0	3.696	34.905	279.0	3.593
1400.0	3.693	34.909	278.5	3.586
1450.0	3.688	34.913	277.3	3.575
1500.0	3.701	34.921	275.4	3.584
1550.0	3.696	34.925	273.8	3.575
1600.0	3.698	34.932	272.2	3.572
1650.0	3.675	34.936	271.4	3.545
1700.0	3.612	34.931	271.6	3.478
1750.0	3.571	34.931	271.7	3.433
1800.0	3.536	34.933	271.9	3.394
1850.0	3.509	34.936	272.0	3.363
1900.0	3.462	34.934	272.1	3.312
1950.0	3.406	34.934	272.3	3.252
2000.0	3.372	34.936	272.4	3.214
2050.0	3.331	34.941	272.7	3.169
2100.0	3.319	34.949	272.8	3.152
2150.0	3.262	34.949	273.0	3.091
2200.0	3.239	34.952	272.9	3.064
2250.0	3.225	34.954	272.6	3.045
2300.0	3.182	34.960	272.7	2.998
2350.0	3.136	34.961	272.4	2.948
2400.0	3.116	34.966	272.7	2.923
2450.0	3.060	34.966	272.6	2.864
2500.0	3.020	34.968	272.2	2.819
2550.0	2.967	34.967	272.0	2.763
2600.0	2.914	34.968	271.6	2.705
2650.0	2.849	34.965	269.5	2.637
2700.0	2.835	34.969	270.8	2.618
2750.0	2.817	34.968	270.7	2.595
2782.0	2.809	34.968	270.3	2.584



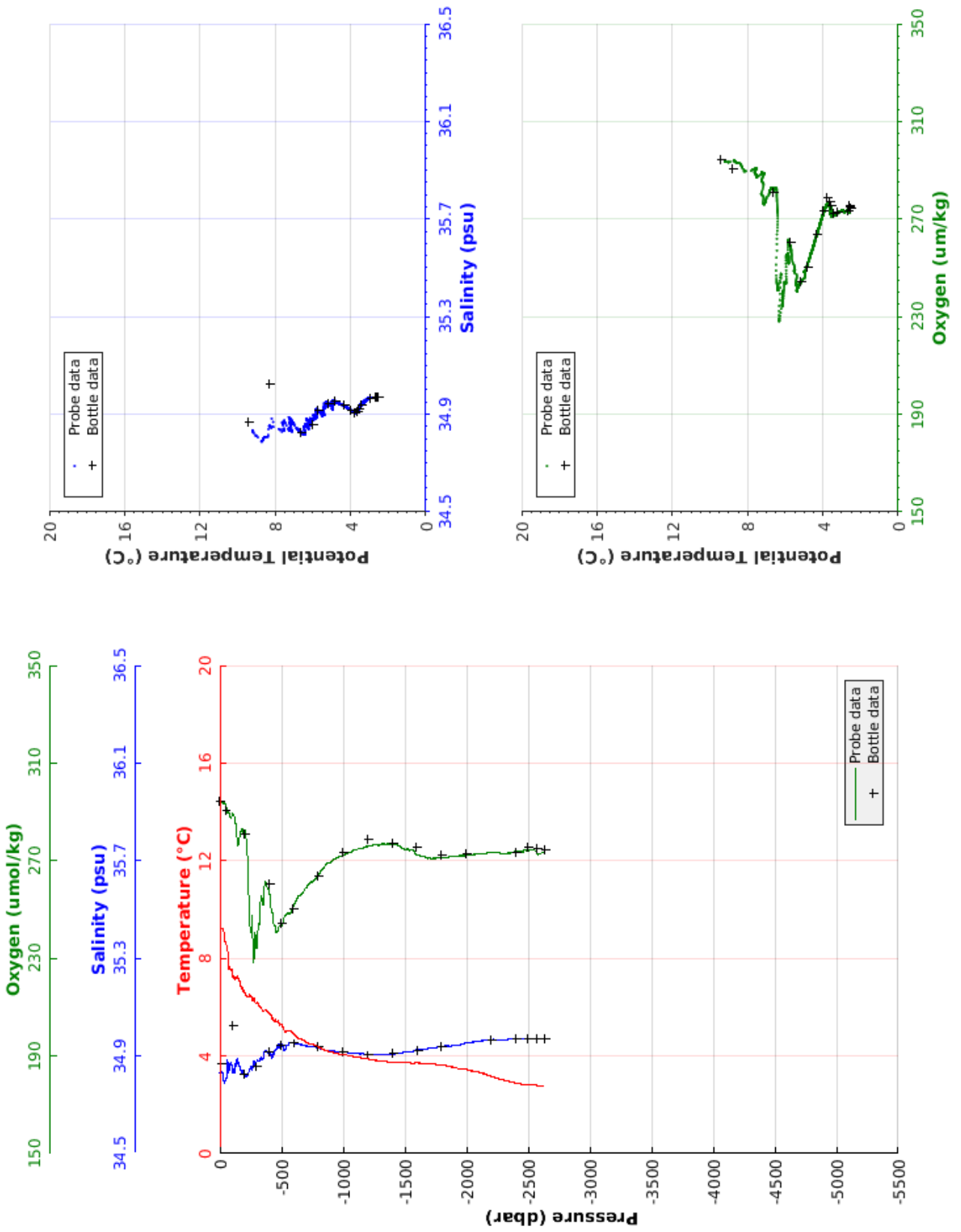
Station: 61

```

-----
| Cruise      : OVIDE 2018
| Station    : 62          Cast      : 1
| Date       : 30/06/2018   Ship       : N/O THALASSA
| Depth      : 2606 m       Organism  : IFREMER
| Position   : N 57 22.61
|             W 028 10.47
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	9.202	34.833	293.6	9.202
10.0	9.205	34.833	293.9	9.204
20.0	9.210	34.834	293.8	9.208
30.0	9.180	34.829	293.5	9.177
40.0	8.701	34.789	294.1	8.697
50.0	8.610	34.803	293.2	8.605
100.0	7.466	34.864	287.4	7.456
150.0	7.198	34.881	276.5	7.183
200.0	6.633	34.826	281.7	6.615
250.0	6.439	34.847	243.0	6.417
300.0	6.173	34.875	235.1	6.147
350.0	5.850	34.888	253.9	5.820
400.0	5.749	34.915	258.3	5.715
450.0	5.465	34.922	243.4	5.428
500.0	5.309	34.953	242.8	5.268
550.0	5.026	34.943	248.2	4.981
600.0	4.874	34.954	251.2	4.826
650.0	4.699	34.947	255.6	4.648
700.0	4.554	34.941	258.9	4.499
750.0	4.468	34.939	261.3	4.410
800.0	4.372	34.933	263.6	4.310
850.0	4.253	34.926	267.1	4.187
900.0	4.166	34.922	269.3	4.096
950.0	4.101	34.918	271.1	4.028
1000.0	4.063	34.916	272.0	3.987
1050.0	4.016	34.913	273.2	3.935
1100.0	3.960	34.910	274.5	3.875
1150.0	3.924	34.909	275.1	3.835
1200.0	3.884	34.908	275.3	3.792
1250.0	3.832	34.907	276.5	3.736
1300.0	3.802	34.907	276.4	3.702
1350.0	3.769	34.907	276.7	3.665
1400.0	3.745	34.908	276.8	3.637
1450.0	3.738	34.911	276.2	3.625
1500.0	3.727	34.916	274.7	3.610
1550.0	3.707	34.917	274.5	3.586
1600.0	3.722	34.926	272.3	3.596
1650.0	3.692	34.928	271.6	3.562
1700.0	3.668	34.930	271.1	3.533
1750.0	3.656	34.935	270.9	3.518
1800.0	3.629	34.938	271.0	3.486
1850.0	3.591	34.941	271.3	3.444
1900.0	3.537	34.942	271.6	3.386
1950.0	3.474	34.944	272.1	3.319
2000.0	3.448	34.952	272.1	3.289
2050.0	3.381	34.956	272.5	3.218
2100.0	3.330	34.961	272.8	3.163
2150.0	3.254	34.964	273.0	3.084
2200.0	3.173	34.966	273.4	2.999
2250.0	3.085	34.967	273.3	2.908
2300.0	3.012	34.967	273.1	2.832
2350.0	2.949	34.968	273.1	2.765
2400.0	2.887	34.969	273.7	2.699
2450.0	2.839	34.969	273.7	2.647
2500.0	2.810	34.970	274.1	2.613
2550.0	2.805	34.970	274.2	2.603
2600.0	2.788	34.970	273.0	2.582
2638.0	2.786	34.970	273.2	2.576



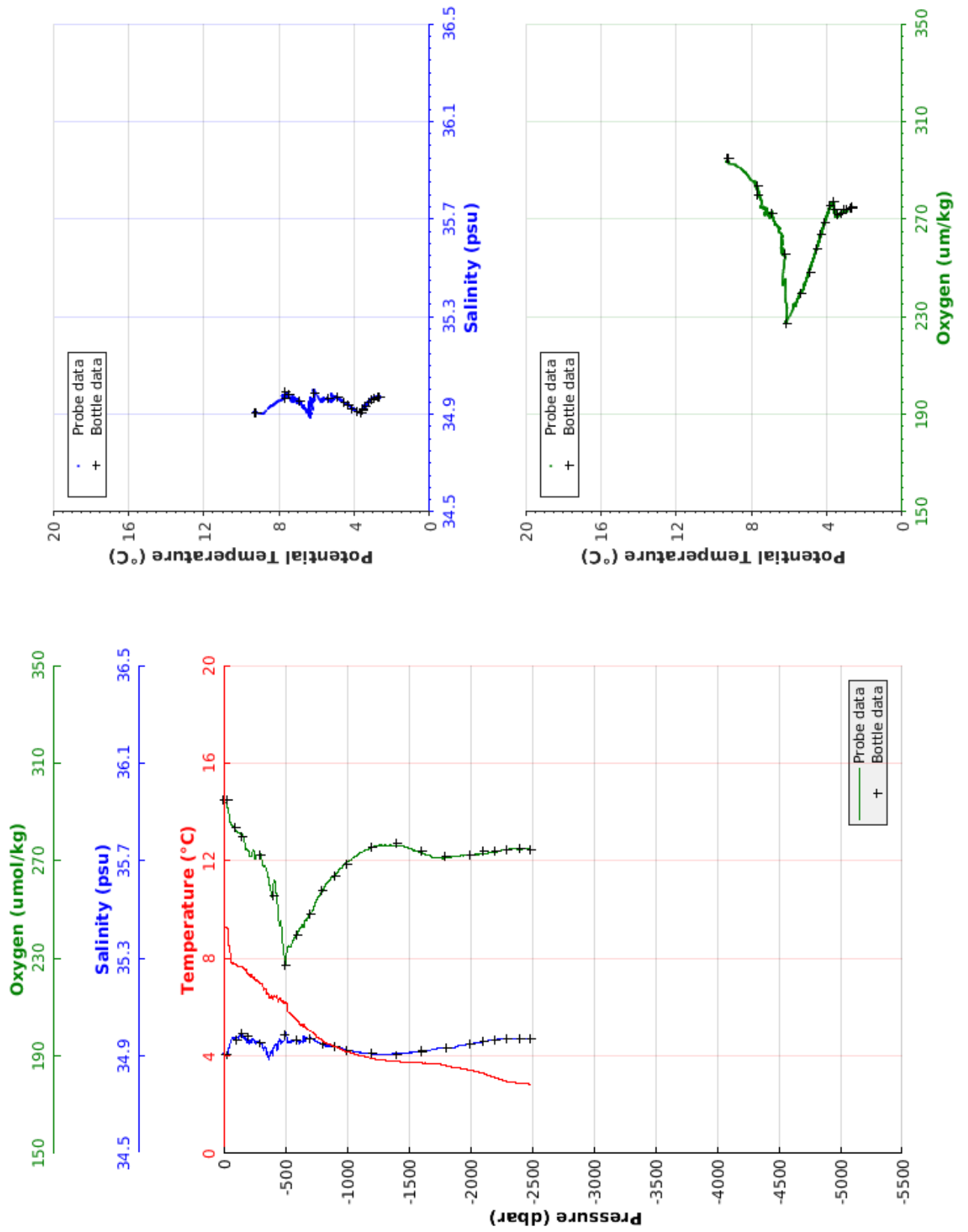
Station: 62

```

-----
| Cruise      : OVIDE 2018
| Station    : 63          Cast      : 1
| Date       : 30/06/2018   Ship     : N/O THALASSA
| Depth      : 2459 m       Organism : IFREMER
| Position   : N 57 40.45
|             W 028 43.51
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	9.326	34.910	293.4	9.326
10.0	9.304	34.909	293.6	9.303
20.0	9.252	34.908	293.8	9.249
30.0	9.229	34.907	293.2	9.226
40.0	8.701	34.913	291.2	8.697
50.0	8.307	34.939	288.9	8.301
100.0	7.719	34.970	283.1	7.709
150.0	7.660	34.985	281.1	7.645
200.0	7.327	34.955	274.4	7.308
250.0	7.204	34.966	274.0	7.180
300.0	6.944	34.950	272.9	6.916
350.0	6.583	34.914	266.6	6.551
400.0	6.325	34.904	256.6	6.289
450.0	6.376	34.959	247.4	6.335
500.0	6.187	34.982	229.3	6.142
550.0	5.676	34.958	234.9	5.629
600.0	5.450	34.964	239.9	5.399
650.0	5.283	34.981	242.7	5.229
700.0	5.030	34.970	247.8	4.973
750.0	4.812	34.959	252.8	4.751
800.0	4.653	34.951	257.1	4.589
850.0	4.485	34.941	261.1	4.418
900.0	4.390	34.939	263.7	4.320
950.0	4.277	34.932	266.6	4.203
1000.0	4.163	34.923	269.5	4.085
1050.0	4.101	34.920	271.0	4.019
1100.0	4.022	34.915	272.7	3.937
1150.0	3.958	34.911	274.1	3.869
1200.0	3.900	34.909	275.3	3.808
1250.0	3.857	34.907	275.9	3.760
1300.0	3.827	34.907	276.3	3.727
1350.0	3.794	34.908	276.3	3.690
1400.0	3.772	34.909	276.4	3.663
1450.0	3.756	34.911	276.0	3.643
1500.0	3.739	34.913	275.2	3.622
1550.0	3.725	34.917	274.2	3.603
1600.0	3.712	34.919	273.3	3.586
1650.0	3.704	34.923	272.1	3.574
1700.0	3.676	34.926	271.4	3.541
1750.0	3.661	34.931	271.1	3.522
1800.0	3.600	34.932	271.2	3.457
1850.0	3.535	34.933	271.5	3.389
1900.0	3.506	34.941	271.8	3.355
1950.0	3.461	34.945	272.1	3.307
2000.0	3.408	34.950	272.5	3.250
2050.0	3.359	34.953	272.6	3.196
2100.0	3.290	34.958	272.7	3.124
2150.0	3.205	34.963	273.2	3.035
2200.0	3.109	34.967	273.5	2.936
2250.0	3.038	34.969	274.2	2.861
2300.0	2.951	34.971	274.6	2.771
2350.0	2.909	34.971	274.8	2.725
2400.0	2.881	34.971	274.8	2.693
2450.0	2.857	34.971	274.9	2.664
2488.0	2.850	34.971	274.9	2.654



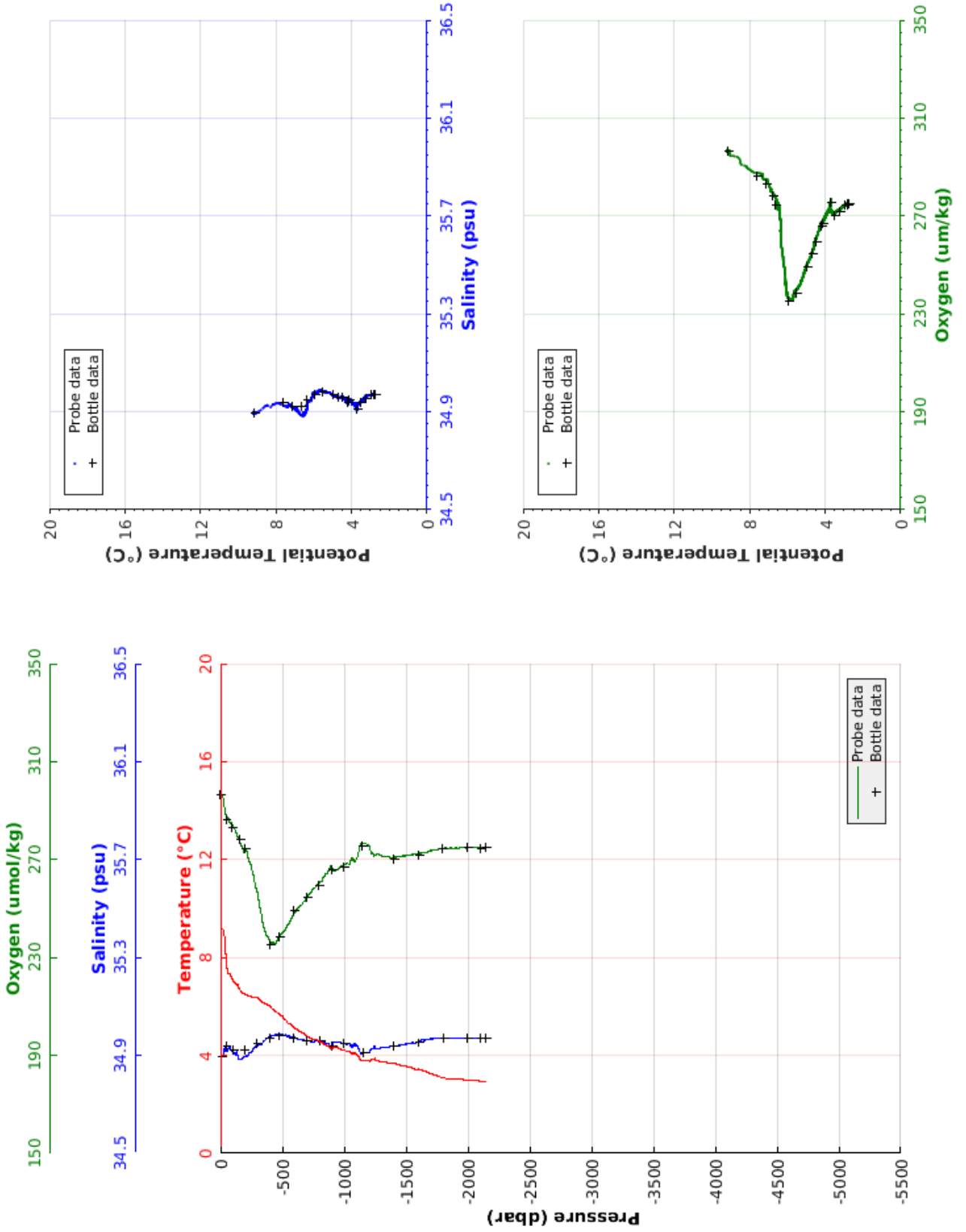
Station: 63

```

-----
| Cruise      : OVIDE 2018
| Station     : 64           Cast      : 1
| Date       : 30/06/2018   Ship     : N/O THALASSA
| Depth      : 2132 m       Organism : IFREMER
| Position   : N 57 58.28
|             W 029 16.75
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	9.191	34.894	297.0	9.191
10.0	9.190	34.895	296.3	9.189
20.0	9.167	34.895	296.7	9.164
30.0	9.011	34.897	294.6	9.007
40.0	8.279	34.919	290.6	8.275
50.0	7.860	34.934	288.0	7.855
100.0	7.077	34.915	284.7	7.068
150.0	6.733	34.890	278.6	6.719
200.0	6.526	34.897	272.8	6.508
250.0	6.388	34.911	268.2	6.366
300.0	6.361	34.942	257.6	6.334
350.0	6.135	34.959	243.3	6.104
400.0	6.049	34.977	237.3	6.014
450.0	5.789	34.984	235.9	5.750
500.0	5.597	34.986	239.6	5.554
550.0	5.310	34.979	243.5	5.264
600.0	5.127	34.974	247.8	5.077
650.0	4.962	34.965	251.3	4.909
700.0	4.804	34.960	254.1	4.747
750.0	4.659	34.956	257.6	4.599
800.0	4.570	34.955	260.3	4.507
850.0	4.444	34.952	263.3	4.377
900.0	4.255	34.933	267.4	4.185
950.0	4.319	34.955	265.9	4.245
1000.0	4.220	34.950	267.6	4.141
1050.0	4.153	34.948	268.3	4.072
1100.0	4.044	34.941	269.8	3.959
1150.0	3.794	34.908	276.8	3.706
1200.0	3.767	34.911	276.3	3.676
1250.0	3.829	34.932	271.6	3.733
1300.0	3.752	34.930	271.7	3.653
1350.0	3.702	34.933	271.2	3.598
1400.0	3.680	34.938	270.9	3.572
1450.0	3.615	34.942	271.1	3.504
1500.0	3.563	34.946	271.5	3.448
1550.0	3.492	34.952	272.0	3.373
1600.0	3.437	34.957	272.3	3.315
1650.0	3.356	34.963	272.8	3.230
1700.0	3.249	34.968	273.6	3.120
1750.0	3.171	34.968	274.0	3.039
1800.0	3.084	34.970	274.6	2.948
1850.0	3.035	34.971	274.6	2.896
1900.0	3.025	34.971	274.8	2.881
1950.0	3.011	34.971	274.8	2.863
2000.0	3.002	34.971	274.8	2.849
2050.0	2.993	34.971	274.9	2.836
2100.0	2.950	34.971	275.0	2.789
2150.0	2.935	34.971	275.1	2.769
2151.0	2.935	34.971	275.1	2.769



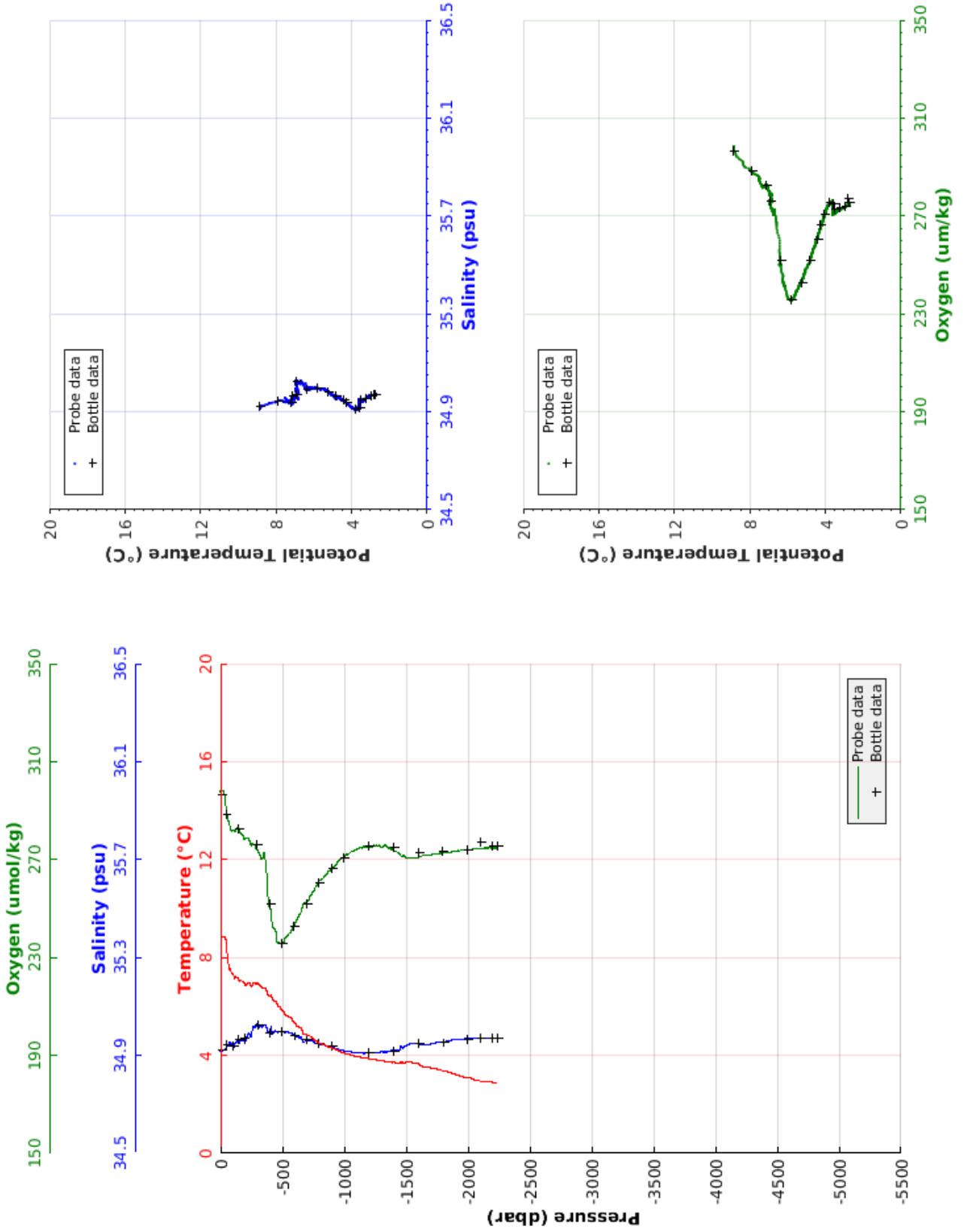
Station: 64


```

-----
| Cruise      : OVIDE 2018
| Station    : 65           Cast      : 1
| Date       : 01/07/2018   Ship     : N/O THALASSA
| Depth      : 2219 m      Organism : IFREMER
| Position   : N 58 12.50
|             W 029 43.50
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.847	34.916	297.8	8.847
10.0	8.847	34.916	297.9	8.846
20.0	8.848	34.922	298.1	8.846
30.0	8.850	34.923	298.0	8.847
40.0	8.790	34.922	296.0	8.786
50.0	8.347	34.935	291.0	8.342
100.0	7.318	34.943	282.1	7.308
150.0	7.050	34.948	281.6	7.036
200.0	6.856	34.951	278.6	6.837
250.0	6.858	34.982	275.8	6.835
300.0	6.929	35.027	274.3	6.901
350.0	6.748	35.023	271.6	6.715
400.0	6.432	34.999	250.5	6.395
450.0	6.191	35.000	241.2	6.151
500.0	5.834	34.995	235.8	5.791
550.0	5.594	34.995	239.1	5.547
600.0	5.331	34.984	243.4	5.281
650.0	5.137	34.978	247.9	5.083
700.0	4.839	34.962	252.8	4.782
750.0	4.706	34.958	256.5	4.646
800.0	4.498	34.945	261.0	4.435
850.0	4.402	34.940	263.4	4.336
900.0	4.300	34.933	266.0	4.230
950.0	4.180	34.925	268.8	4.107
1000.0	4.095	34.920	271.1	4.018
1050.0	4.024	34.915	272.7	3.944
1100.0	3.954	34.912	274.1	3.870
1150.0	3.918	34.912	274.7	3.829
1200.0	3.859	34.910	275.4	3.767
1250.0	3.823	34.911	275.8	3.727
1300.0	3.788	34.914	275.4	3.688
1350.0	3.739	34.915	275.5	3.636
1400.0	3.718	34.920	273.8	3.610
1450.0	3.691	34.923	272.6	3.579
1500.0	3.721	34.939	271.0	3.604
1550.0	3.711	34.949	270.8	3.590
1600.0	3.657	34.950	270.9	3.532
1650.0	3.531	34.943	271.7	3.403
1700.0	3.495	34.946	271.9	3.363
1750.0	3.438	34.953	272.4	3.302
1800.0	3.373	34.955	272.5	3.234
1850.0	3.306	34.960	272.9	3.163
1900.0	3.222	34.965	273.4	3.075
1950.0	3.142	34.967	273.7	2.992
2000.0	3.081	34.968	273.9	2.927
2050.0	3.005	34.969	274.4	2.848
2100.0	2.952	34.970	274.6	2.791
2150.0	2.913	34.970	274.7	2.748
2200.0	2.904	34.970	274.8	2.735
2243.0	2.896	34.970	274.8	2.722



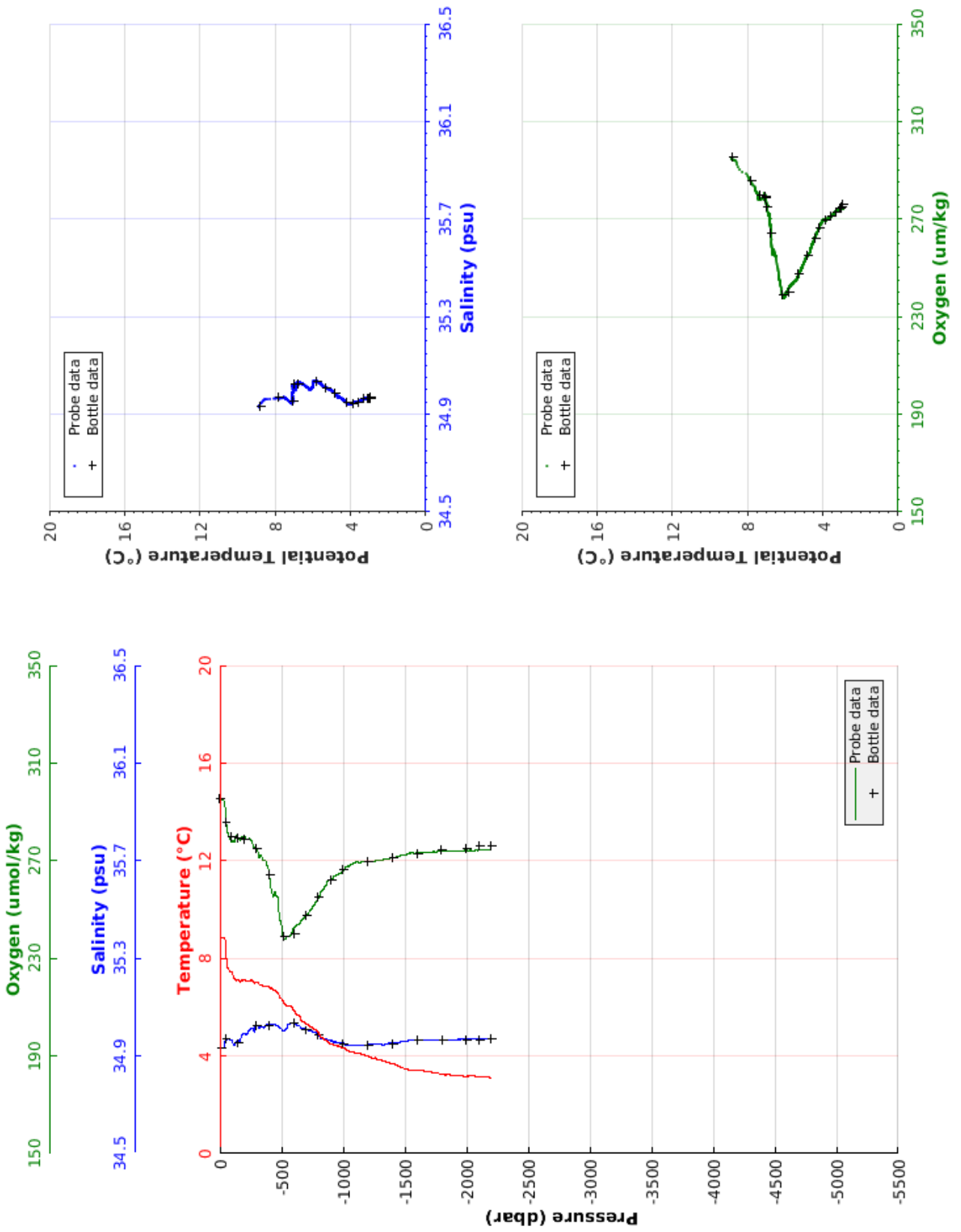
Station: 65

```

-----
| Cruise      : OVIDE 2018
| Station    : 66          Cast      : 1
| Date       : 01/07/2018   Ship     : N/O THALASSA
| Depth      : 2174 m       Organism : IFREMER
| Position   : N 58 24.65
|             W 030 6.13
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.857	34.933	295.0	8.857
10.0	8.858	34.933	295.0	8.857
20.0	8.858	34.933	295.0	8.856
30.0	8.859	34.933	295.1	8.856
40.0	8.837	34.936	294.5	8.833
50.0	8.432	34.962	290.3	8.426
100.0	7.416	34.963	277.9	7.406
150.0	7.106	34.966	280.3	7.092
200.0	7.102	34.990	279.9	7.083
250.0	7.087	35.009	279.0	7.063
300.0	7.012	35.022	275.2	6.984
350.0	6.878	35.017	270.8	6.845
400.0	6.819	35.027	266.4	6.782
450.0	6.670	35.027	256.6	6.628
500.0	6.339	35.011	244.7	6.294
550.0	6.045	35.022	238.9	5.996
600.0	5.858	35.035	241.9	5.805
650.0	5.618	35.024	244.1	5.562
700.0	5.302	35.007	247.8	5.243
750.0	5.171	35.002	250.3	5.108
800.0	4.931	34.989	254.2	4.865
850.0	4.671	34.970	258.9	4.602
900.0	4.509	34.962	262.4	4.438
950.0	4.409	34.953	264.1	4.334
1000.0	4.344	34.953	265.5	4.265
1050.0	4.207	34.945	267.8	4.125
1100.0	4.109	34.941	269.2	4.023
1150.0	4.063	34.944	269.4	3.973
1200.0	3.987	34.946	269.7	3.894
1250.0	3.920	34.949	269.7	3.823
1300.0	3.829	34.950	270.2	3.728
1350.0	3.761	34.949	270.6	3.657
1400.0	3.673	34.952	271.2	3.565
1450.0	3.566	34.956	271.7	3.455
1500.0	3.490	34.960	272.4	3.376
1550.0	3.431	34.964	273.1	3.313
1600.0	3.408	34.965	273.2	3.286
1650.0	3.387	34.965	273.3	3.260
1700.0	3.360	34.965	273.3	3.230
1750.0	3.302	34.965	273.5	3.168
1800.0	3.230	34.967	273.9	3.092
1850.0	3.232	34.967	273.7	3.090
1900.0	3.189	34.968	274.1	3.042
1950.0	3.179	34.968	274.2	3.028
2000.0	3.170	34.968	274.2	3.015
2050.0	3.175	34.968	274.1	3.015
2100.0	3.150	34.969	274.3	2.986
2150.0	3.123	34.969	274.5	2.955
2200.0	3.120	34.969	274.6	2.946



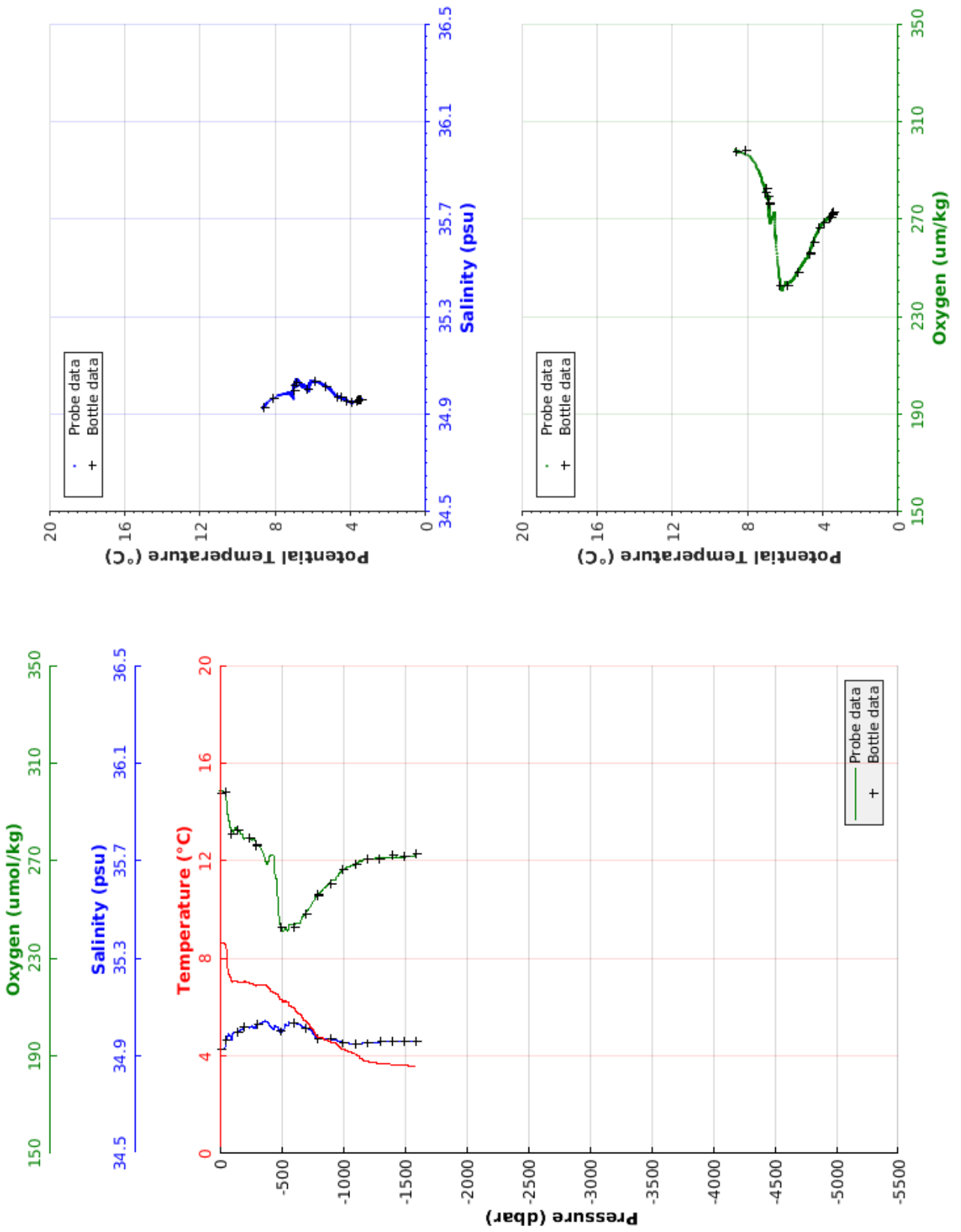
Station: 66

```

-----
| Cruise      : OVIDE 2018
| Station     : 67           Cast      : 1
| Date        : 01/07/2018   Ship       : N/O THALASSA
| Depth       : 1584 m       Organism  : IFREMER
| Position    : N 58 32.98
|              W 030 21.64
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.626	34.928	298.4	8.626
10.0	8.627	34.928	298.4	8.626
20.0	8.630	34.928	298.5	8.628
30.0	8.630	34.928	298.4	8.626
40.0	8.610	34.930	297.7	8.606
50.0	8.480	34.944	297.7	8.475
100.0	7.042	34.967	281.9	7.032
150.0	7.036	35.001	282.9	7.022
200.0	7.056	35.022	279.0	7.037
250.0	6.965	35.019	279.2	6.942
300.0	6.910	35.026	277.3	6.881
350.0	6.890	35.036	274.0	6.857
400.0	6.773	35.032	269.7	6.736
450.0	6.587	35.022	265.7	6.545
500.0	6.323	35.002	243.3	6.277
550.0	6.190	35.025	241.4	6.141
600.0	5.990	35.034	243.8	5.937
650.0	5.725	35.031	244.6	5.668
700.0	5.394	35.016	248.6	5.334
750.0	5.114	35.000	252.1	5.052
800.0	4.776	34.972	256.2	4.712
850.0	4.669	34.970	259.1	4.601
900.0	4.542	34.967	261.4	4.470
950.0	4.451	34.963	263.1	4.376
1000.0	4.288	34.956	266.1	4.209
1050.0	4.169	34.952	267.6	4.087
1100.0	4.071	34.950	268.5	3.986
1150.0	3.894	34.951	269.9	3.806
1200.0	3.766	34.955	270.6	3.675
1250.0	3.738	34.956	270.8	3.643
1300.0	3.700	34.957	271.0	3.601
1350.0	3.694	34.958	271.1	3.591
1400.0	3.647	34.959	271.3	3.540
1450.0	3.637	34.959	271.4	3.525
1500.0	3.633	34.959	271.4	3.517
1550.0	3.586	34.960	271.8	3.466
1594.0	3.559	34.961	272.3	3.436



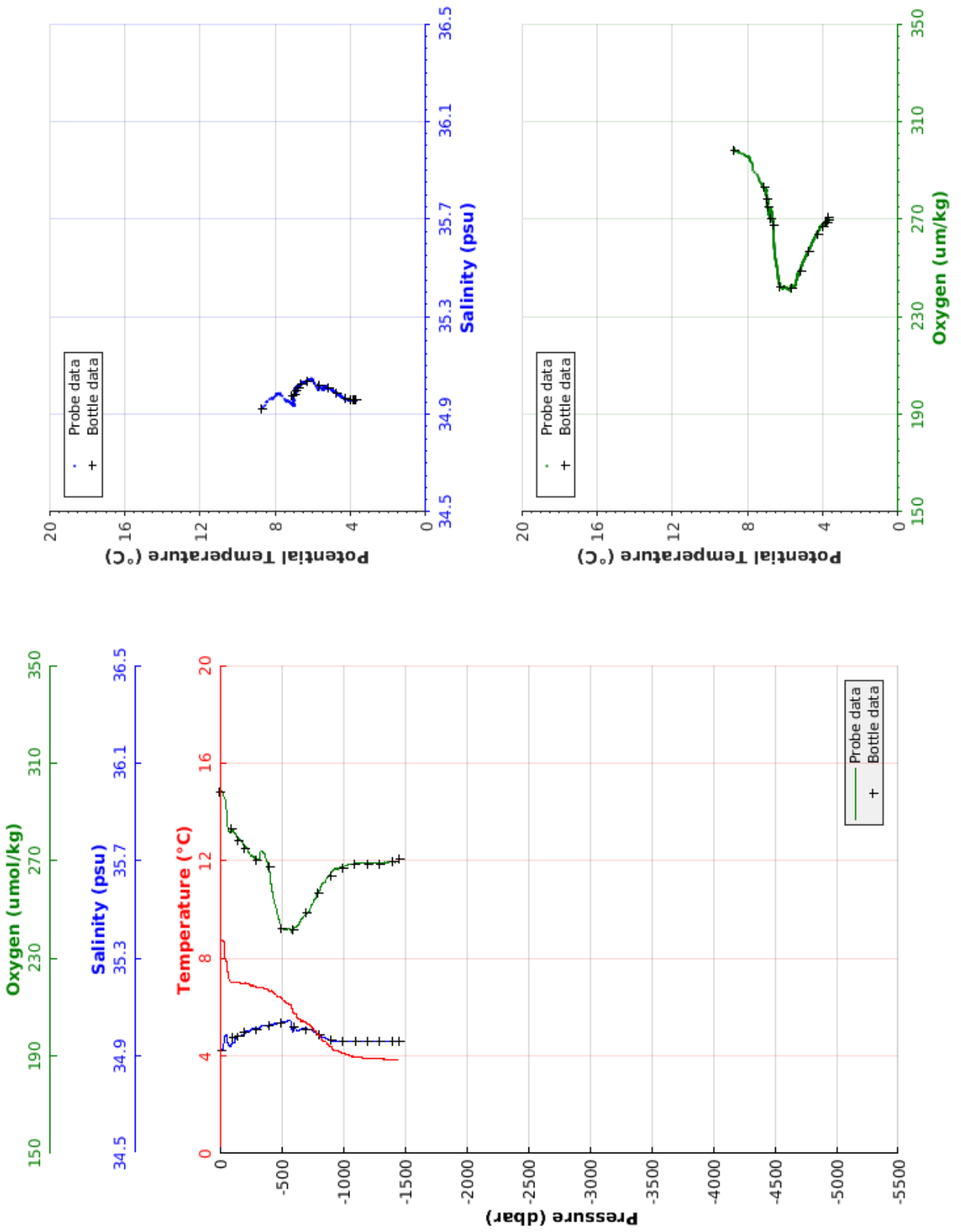
Station: 67

```

-----
| Cruise      : OVIDE 2018
| Station     : 68           Cast      : 1
| Date       : 01/07/2018   Ship     : N/O THALASSA
| Depth      : 1447 m       Organism : IFREMER
| Position   : N 58 43.56
|             W 030 41.66
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.730	34.925	298.8	8.730
10.0	8.731	34.924	298.7	8.729
20.0	8.728	34.925	298.5	8.726
30.0	8.725	34.925	297.8	8.722
40.0	8.128	34.963	296.0	8.124
50.0	7.903	34.984	294.9	7.898
100.0	7.031	34.948	282.2	7.022
150.0	7.007	34.982	279.7	6.993
200.0	6.948	34.992	276.4	6.929
250.0	6.906	35.006	272.6	6.882
300.0	6.819	35.010	270.6	6.791
350.0	6.783	35.022	273.8	6.750
400.0	6.664	35.025	266.4	6.627
450.0	6.540	35.032	252.6	6.499
500.0	6.352	35.035	243.6	6.307
550.0	6.147	35.043	241.8	6.098
600.0	5.782	35.021	241.9	5.729
650.0	5.484	35.009	244.5	5.428
700.0	5.380	35.014	247.9	5.320
750.0	5.146	35.005	251.6	5.084
800.0	4.840	34.988	256.8	4.775
850.0	4.598	34.975	261.1	4.530
900.0	4.376	34.965	264.2	4.306
950.0	4.209	34.960	266.6	4.135
1000.0	4.093	34.958	267.7	4.016
1050.0	4.011	34.957	268.4	3.930
1100.0	3.950	34.958	268.9	3.865
1150.0	3.926	34.959	269.0	3.838
1200.0	3.901	34.958	269.2	3.808
1250.0	3.888	34.959	269.2	3.792
1300.0	3.885	34.959	269.2	3.784
1350.0	3.860	34.959	269.2	3.755
1400.0	3.846	34.959	269.5	3.736
1450.0	3.833	34.959	269.7	3.719
1457.0	3.834	34.959	269.7	3.719



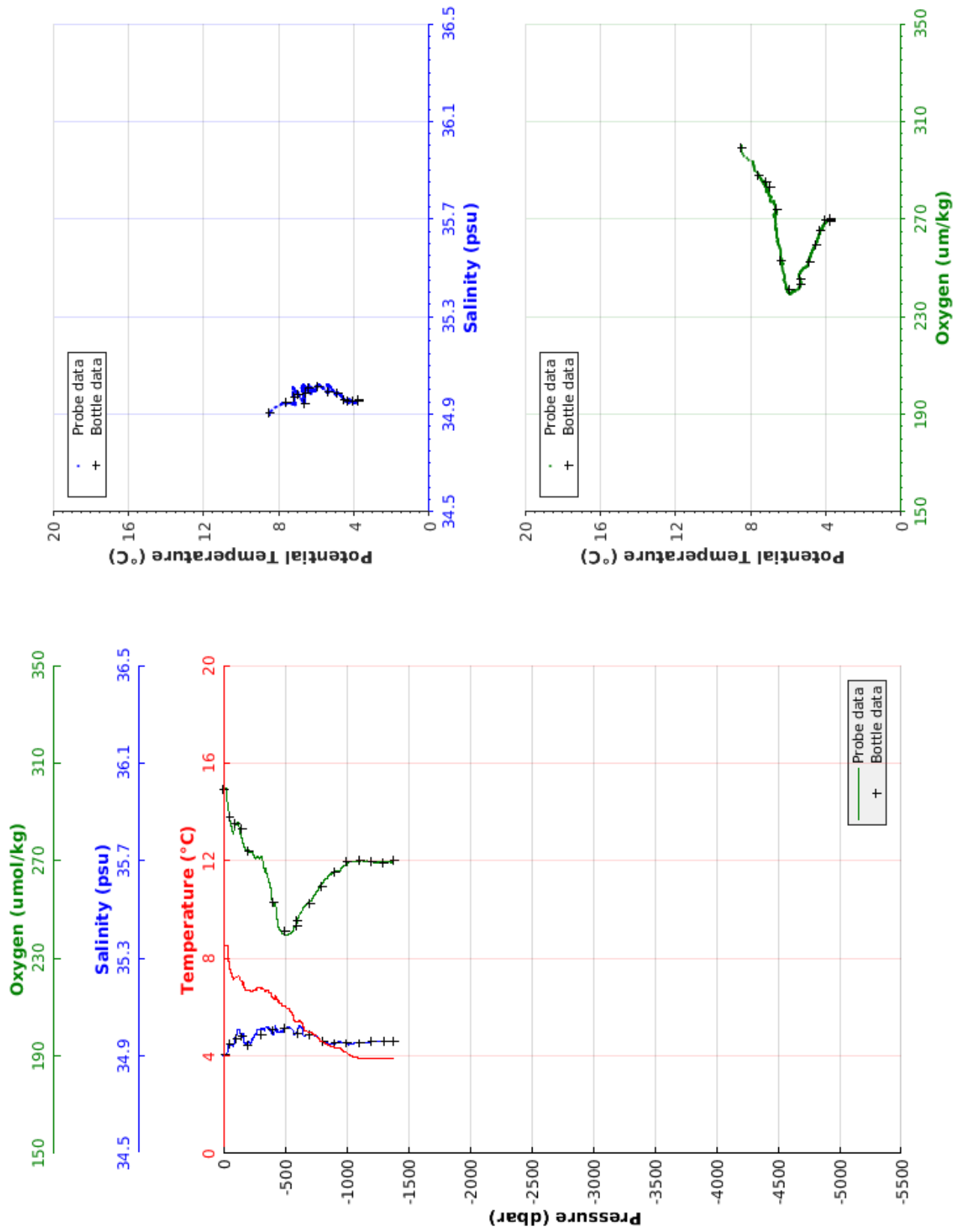
Station: 68


```

-----
| Cruise      : OVIDE 2018
| Station    : 69           Cast      : 1
| Date       : 02/07/2018   Ship     : N/O THALASSA
| Depth      : 1376 m       Organism : IFREMER
| Position   : N 58 50.64
|             W 031 16.01
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.523	34.899	299.9	8.523
10.0	8.524	34.899	300.0	8.523
20.0	8.526	34.899	299.9	8.524
30.0	8.527	34.899	299.6	8.523
40.0	7.877	34.940	293.3	7.873
50.0	7.780	34.944	289.7	7.775
100.0	7.218	34.975	284.2	7.209
150.0	7.052	34.991	280.5	7.038
200.0	6.698	34.954	274.2	6.679
250.0	6.698	34.976	272.4	6.675
300.0	6.773	35.008	271.1	6.745
350.0	6.715	35.019	266.8	6.683
400.0	6.416	34.991	253.9	6.380
450.0	6.194	35.000	243.5	6.154
500.0	6.042	35.014	239.8	5.997
550.0	5.781	35.012	240.3	5.733
600.0	5.391	34.996	244.2	5.341
650.0	5.155	34.996	250.2	5.101
700.0	4.973	34.986	253.0	4.916
750.0	4.827	34.982	256.3	4.767
800.0	4.584	34.960	260.3	4.521
850.0	4.448	34.951	263.2	4.381
900.0	4.349	34.949	265.5	4.278
950.0	4.307	34.958	265.9	4.232
1000.0	4.137	34.950	268.2	4.059
1050.0	3.964	34.950	269.7	3.884
1100.0	3.904	34.952	269.8	3.820
1150.0	3.901	34.954	269.9	3.813
1200.0	3.890	34.957	269.6	3.798
1250.0	3.897	34.958	269.2	3.800
1300.0	3.891	34.958	269.2	3.789
1350.0	3.888	34.957	269.5	3.782
1383.0	3.886	34.957	269.5	3.777



Station: 69

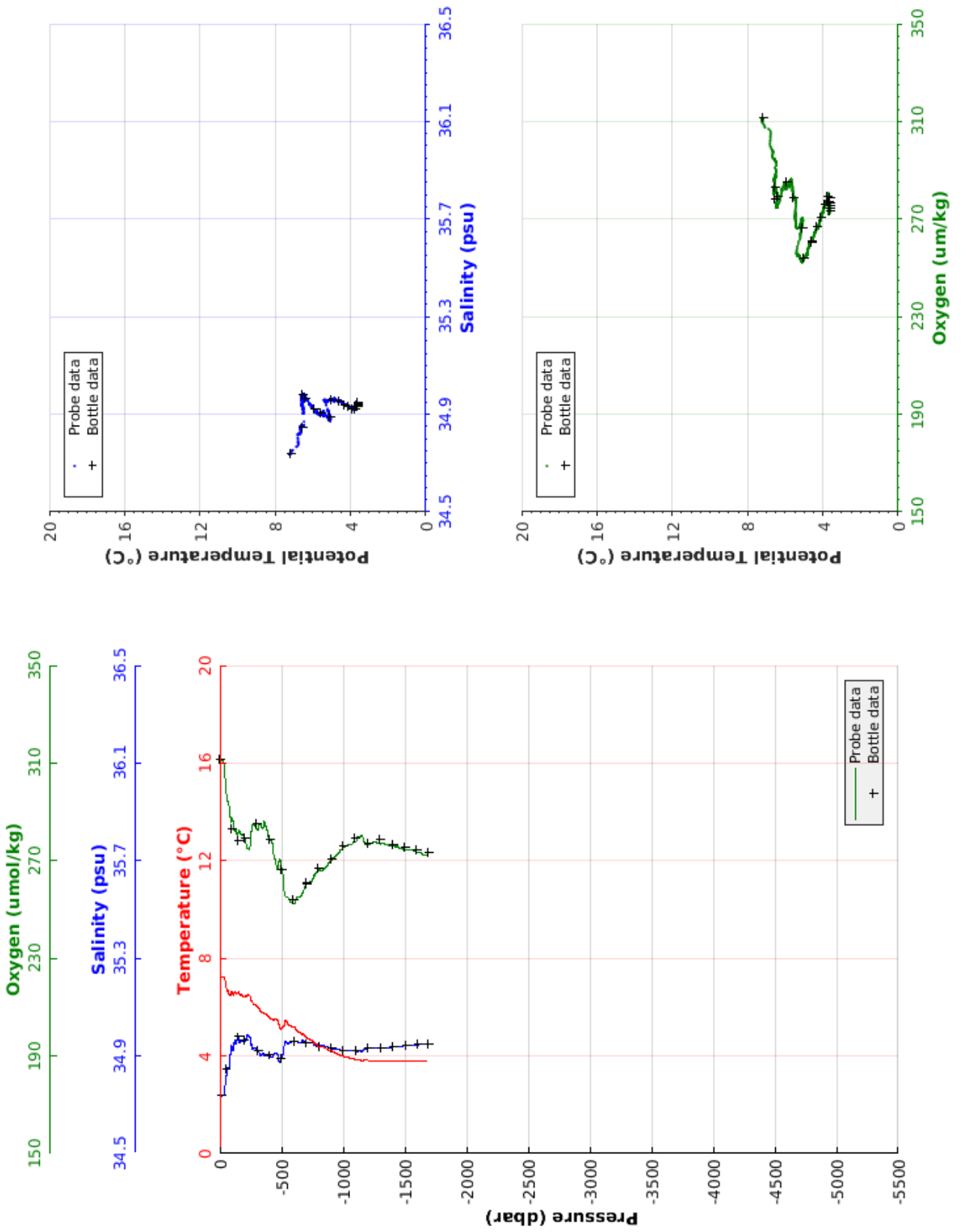


```

-----
| Cruise      : OVIDE 2018
| Station     : 70           Cast      : 1
| Date        : 02/07/2018   Ship       : N/O THALASSA
| Depth       : 1678 m       Organism  : IFREMER
| Position    : N 58 54.63
|              W 031 54.53
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.223	34.738	311.2	7.223
10.0	7.223	34.737	311.0	7.222
20.0	7.227	34.737	311.1	7.225
30.0	7.227	34.738	311.0	7.224
40.0	7.206	34.741	309.3	7.203
50.0	6.798	34.796	302.5	6.793
100.0	6.608	34.937	285.9	6.599
150.0	6.630	34.974	280.4	6.616
200.0	6.429	34.957	280.7	6.411
250.0	6.418	34.975	275.5	6.395
300.0	6.038	34.927	283.3	6.012
350.0	5.799	34.910	283.5	5.769
400.0	5.617	34.902	279.8	5.583
450.0	5.510	34.910	271.1	5.473
500.0	5.112	34.886	268.9	5.071
550.0	5.349	34.954	255.3	5.303
600.0	5.167	34.960	252.6	5.117
650.0	4.945	34.955	255.2	4.892
700.0	4.755	34.956	259.7	4.699
750.0	4.615	34.956	261.6	4.556
800.0	4.392	34.938	266.8	4.329
850.0	4.321	34.939	266.6	4.255
900.0	4.201	34.932	269.8	4.132
950.0	4.105	34.928	272.1	4.032
1000.0	3.980	34.923	275.3	3.904
1050.0	3.925	34.923	276.5	3.846
1100.0	3.870	34.924	277.9	3.786
1150.0	3.801	34.919	280.1	3.714
1200.0	3.820	34.930	276.8	3.728
1250.0	3.774	34.930	277.8	3.678
1300.0	3.776	34.933	276.9	3.676
1350.0	3.776	34.934	276.7	3.671
1400.0	3.777	34.936	275.9	3.668
1450.0	3.775	34.938	275.6	3.662
1500.0	3.781	34.941	274.6	3.663
1550.0	3.782	34.942	274.5	3.660
1600.0	3.796	34.946	273.2	3.669
1650.0	3.810	34.950	272.4	3.678
1691.0	3.804	34.950	272.5	3.669



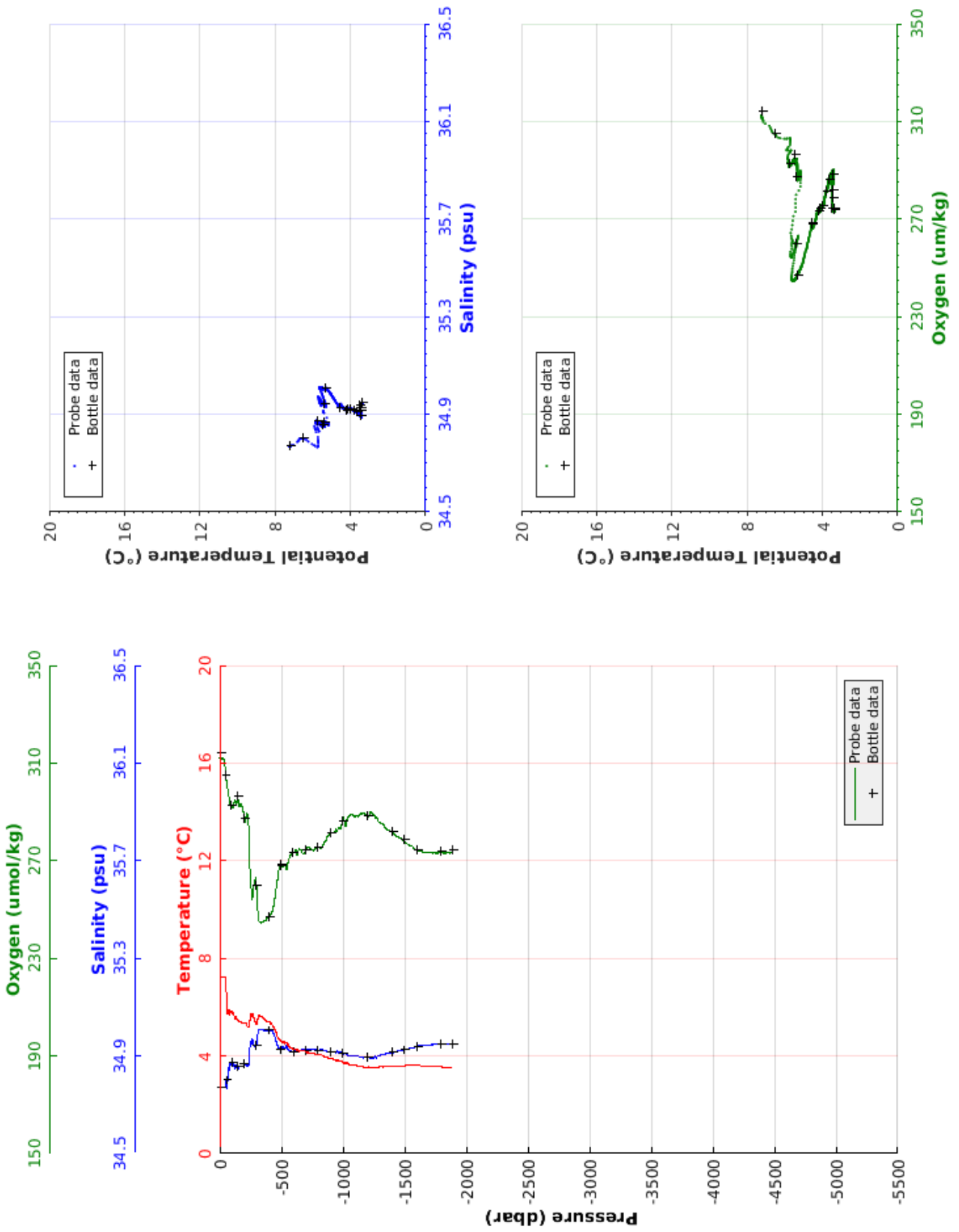
Station: 70

```

-----
| Cruise      : OVIDE 2018
| Station     : 71           Cast      : 1
| Date        : 03/07/2018   Ship       : N/O THALASSA
| Depth       : 1874 m       Organism  : IPREMER
| Position    : N 58 58.46
|              W 032 33.19
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.230	34.769	312.1	7.230
10.0	7.230	34.769	312.0	7.229
20.0	7.230	34.769	311.8	7.229
30.0	7.230	34.769	312.1	7.227
40.0	7.213	34.770	311.7	7.209
50.0	6.773	34.790	307.4	6.769
100.0	5.736	34.861	292.8	5.728
150.0	5.480	34.856	293.9	5.467
200.0	5.336	34.862	289.3	5.320
250.0	5.623	34.943	267.5	5.602
300.0	5.331	34.941	262.4	5.307
350.0	5.578	35.009	244.9	5.549
400.0	5.383	35.004	247.1	5.350
450.0	5.046	34.980	253.6	5.009
500.0	4.596	34.931	267.9	4.558
550.0	4.528	34.938	266.7	4.486
600.0	4.285	34.919	273.4	4.239
650.0	4.196	34.920	274.7	4.147
700.0	4.177	34.926	273.7	4.124
750.0	4.108	34.926	274.8	4.052
800.0	4.055	34.924	275.5	3.995
850.0	3.981	34.922	277.1	3.918
900.0	3.883	34.915	281.4	3.816
950.0	3.814	34.914	282.7	3.743
1000.0	3.723	34.907	285.7	3.649
1050.0	3.657	34.902	288.2	3.580
1100.0	3.612	34.900	288.2	3.530
1150.0	3.557	34.894	289.3	3.472
1200.0	3.537	34.894	289.1	3.447
1250.0	3.517	34.894	288.7	3.424
1300.0	3.552	34.903	285.6	3.454
1350.0	3.574	34.910	283.3	3.472
1400.0	3.570	34.913	282.0	3.464
1450.0	3.586	34.919	279.7	3.475
1500.0	3.599	34.925	278.0	3.484
1550.0	3.606	34.930	276.2	3.486
1600.0	3.625	34.940	274.5	3.500
1650.0	3.584	34.944	273.7	3.455
1700.0	3.585	34.946	273.4	3.451
1750.0	3.582	34.947	273.3	3.445
1800.0	3.554	34.948	273.1	3.412
1850.0	3.521	34.948	273.1	3.375
1891.0	3.503	34.948	273.4	3.353



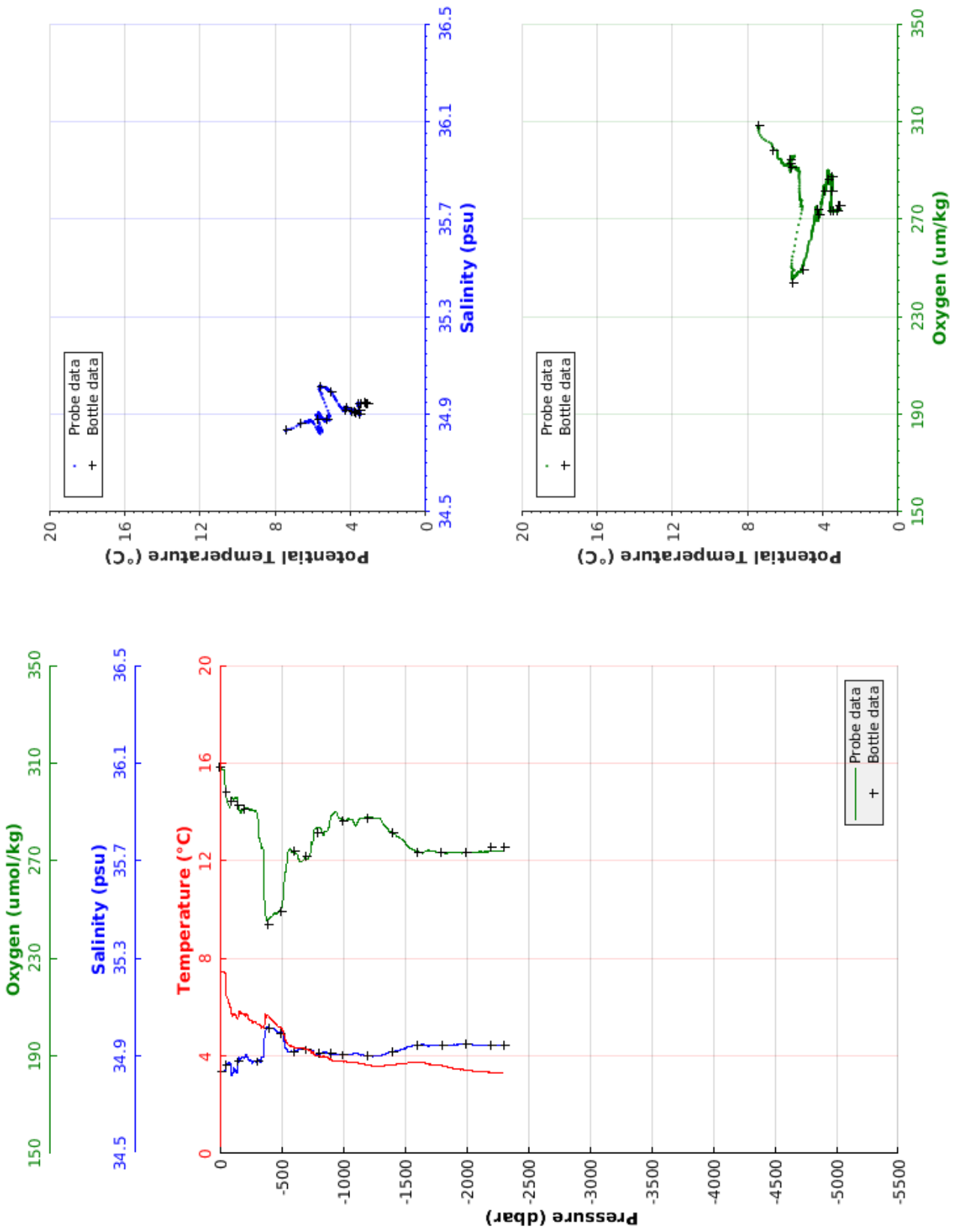
Station: 71

```

-----
| Cruise      : OVIDE 2018
| Station     : 72           Cast      : 1
| Date        : 03/07/2018   Ship       : N/O THALASSA
| Depth       : 2283 m       Organism  : IFREMER
| Position    : N 59 2.58
|              W 033 11.41
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.444	34.834	307.5	7.444
10.0	7.445	34.834	307.5	7.444
20.0	7.447	34.834	307.5	7.445
30.0	7.447	34.835	307.5	7.444
40.0	7.418	34.836	307.3	7.414
50.0	6.707	34.861	300.5	6.702
100.0	5.622	34.820	295.7	5.613
150.0	5.680	34.865	294.0	5.667
200.0	5.695	34.895	290.6	5.678
250.0	5.477	34.884	290.7	5.457
300.0	5.305	34.874	290.4	5.281
350.0	5.171	34.894	275.2	5.143
400.0	5.592	35.014	246.2	5.558
450.0	5.313	35.007	248.5	5.276
500.0	5.126	34.996	250.1	5.085
550.0	4.504	34.924	269.6	4.462
600.0	4.349	34.918	273.8	4.303
650.0	4.346	34.929	269.8	4.296
700.0	4.274	34.927	271.1	4.221
750.0	4.121	34.917	277.4	4.065
800.0	4.009	34.910	283.2	3.949
850.0	3.971	34.916	280.7	3.908
900.0	3.846	34.906	287.0	3.779
950.0	3.782	34.904	290.0	3.711
1000.0	3.767	34.906	286.9	3.693
1050.0	3.718	34.904	287.6	3.640
1100.0	3.741	34.912	284.7	3.659
1150.0	3.664	34.903	287.3	3.578
1200.0	3.632	34.901	287.6	3.542
1250.0	3.591	34.899	287.6	3.497
1300.0	3.576	34.899	287.3	3.478
1350.0	3.609	34.909	284.0	3.506
1400.0	3.635	34.916	281.7	3.528
1450.0	3.662	34.923	279.8	3.550
1500.0	3.688	34.930	278.0	3.572
1550.0	3.719	34.939	275.2	3.598
1600.0	3.739	34.945	273.8	3.613
1650.0	3.738	34.947	273.1	3.607
1700.0	3.657	34.941	274.3	3.523
1750.0	3.641	34.942	273.8	3.503
1800.0	3.606	34.945	273.5	3.464
1850.0	3.539	34.946	273.1	3.393
1900.0	3.483	34.946	273.4	3.333
1950.0	3.441	34.947	273.3	3.287
2000.0	3.420	34.947	273.3	3.261
2050.0	3.388	34.946	273.4	3.225
2100.0	3.354	34.946	273.6	3.187
2150.0	3.345	34.946	273.7	3.173
2200.0	3.321	34.946	273.8	3.145
2250.0	3.303	34.946	273.8	3.122
2300.0	3.289	34.946	274.0	3.103
2307.0	3.286	34.945	274.2	3.100



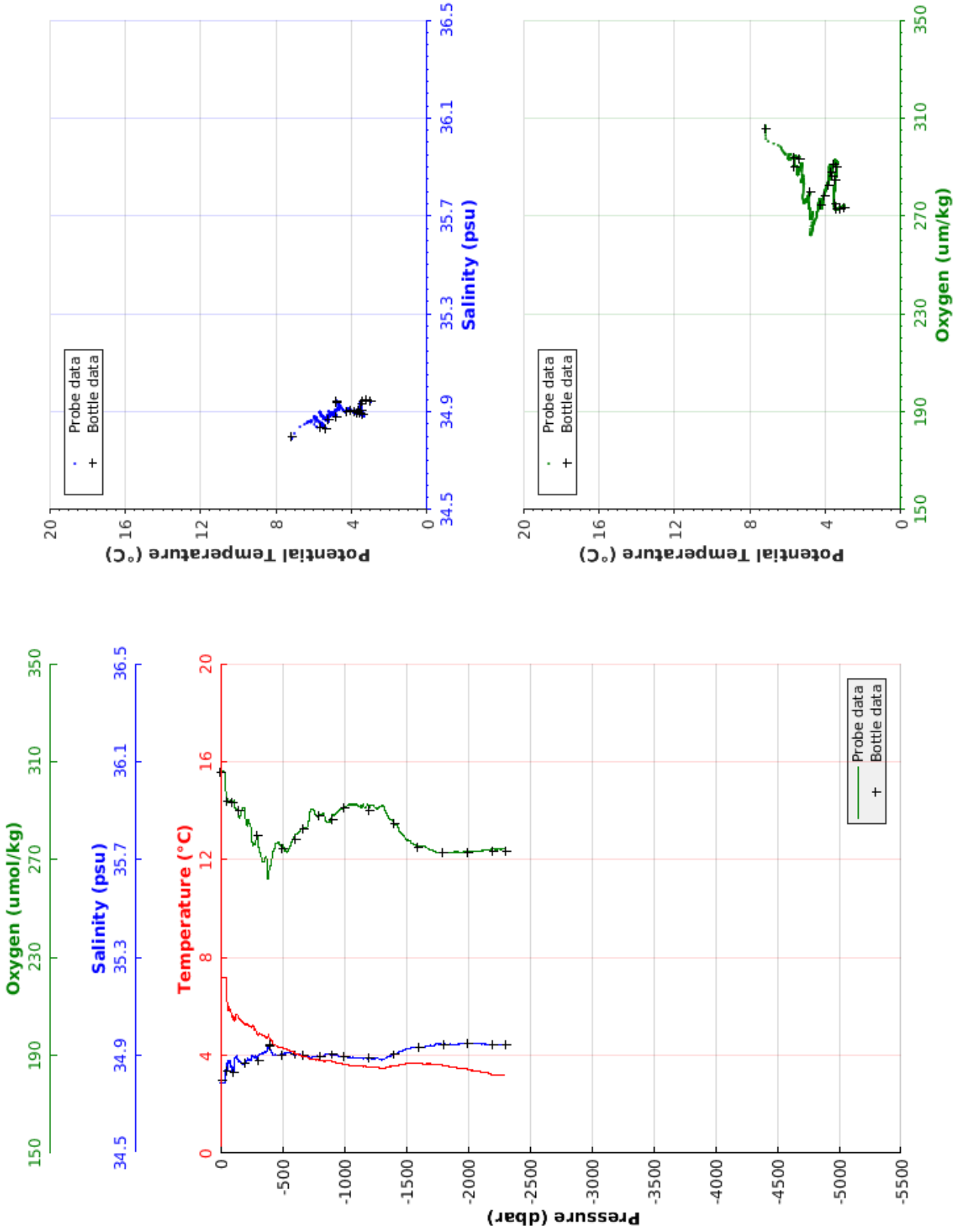
Station: 72


```

-----
| Cruise      : OVIDE 2018
| Station    : 73          Cast      : 1
| Date       : 03/07/2018   Ship     : N/O THALASSA
| Depth      : 2280 m      Organism : IFREMER
| Position   : N 59 6.18
|             W 033 49.80
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.173	34.789	306.7	7.173
10.0	7.175	34.790	306.2	7.174
20.0	7.175	34.789	306.2	7.173
30.0	7.177	34.790	306.1	7.174
40.0	7.172	34.792	305.4	7.169
50.0	6.320	34.860	297.2	6.316
100.0	5.573	34.849	293.4	5.565
150.0	5.503	34.875	289.4	5.491
200.0	5.252	34.861	291.2	5.236
250.0	5.155	34.881	283.5	5.135
300.0	4.833	34.882	279.6	4.809
350.0	4.802	34.909	268.9	4.774
400.0	4.694	34.928	265.6	4.663
450.0	4.370	34.900	276.2	4.336
500.0	4.305	34.905	275.8	4.268
550.0	4.235	34.912	273.2	4.194
600.0	4.092	34.904	279.3	4.047
650.0	3.990	34.901	281.6	3.943
700.0	3.927	34.899	283.3	3.876
750.0	3.831	34.893	290.8	3.776
800.0	3.788	34.896	288.4	3.730
850.0	3.800	34.905	286.3	3.737
900.0	3.735	34.901	287.3	3.669
950.0	3.689	34.898	289.5	3.619
1000.0	3.646	34.895	291.4	3.573
1050.0	3.591	34.892	292.5	3.514
1100.0	3.564	34.890	292.4	3.483
1150.0	3.564	34.891	291.5	3.479
1200.0	3.526	34.887	292.1	3.437
1250.0	3.522	34.888	291.3	3.429
1300.0	3.480	34.883	291.7	3.384
1350.0	3.532	34.894	288.5	3.431
1400.0	3.576	34.905	285.3	3.470
1450.0	3.630	34.917	281.6	3.519
1500.0	3.664	34.926	278.5	3.548
1550.0	3.681	34.933	276.6	3.560
1600.0	3.671	34.935	275.6	3.546
1650.0	3.648	34.934	275.5	3.519
1700.0	3.658	34.943	273.8	3.524
1750.0	3.639	34.947	272.9	3.501
1800.0	3.591	34.946	273.0	3.448
1850.0	3.541	34.946	272.9	3.395
1900.0	3.503	34.945	273.1	3.352
1950.0	3.479	34.947	272.9	3.324
2000.0	3.435	34.948	273.3	3.276
2050.0	3.374	34.947	273.3	3.211
2100.0	3.324	34.947	273.3	3.158
2150.0	3.288	34.946	273.8	3.117
2200.0	3.206	34.945	274.1	3.031
2250.0	3.191	34.944	274.3	3.012
2300.0	3.192	34.944	274.3	3.008
2305.0	3.191	34.944	274.4	3.007



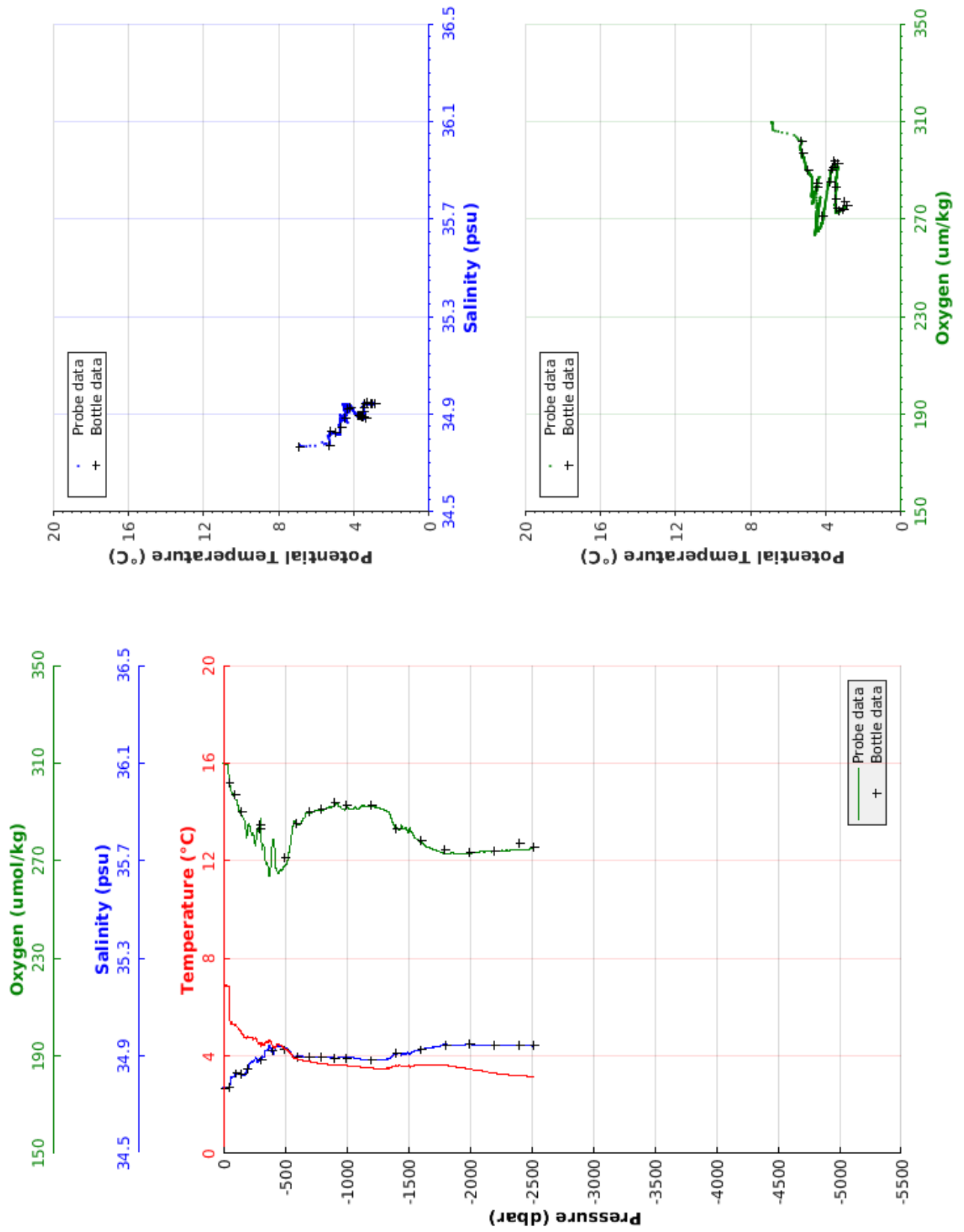
Station: 73

```

-----
| Cruise      : OVIDE 2018
| Station     : 74           Cast      : 1
| Date        : 03/07/2018   Ship       : N/O THALASSA
| Depth       : 2490 m       Organism  : IFREMER
| Position    : N 59  9.86
|              W 034 28.51
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.881	34.771	309.7	6.881
10.0	6.881	34.771	309.7	6.880
20.0	6.883	34.771	309.6	6.881
30.0	6.879	34.771	309.7	6.877
40.0	6.858	34.771	309.1	6.854
50.0	5.694	34.785	304.4	5.690
100.0	5.268	34.829	295.4	5.260
150.0	4.927	34.819	289.2	4.915
200.0	4.763	34.854	282.1	4.748
250.0	4.681	34.879	280.6	4.662
300.0	4.505	34.881	283.0	4.483
350.0	4.575	34.923	269.5	4.549
400.0	4.386	34.913	276.0	4.356
450.0	4.460	34.940	265.0	4.426
500.0	4.278	34.934	267.8	4.240
550.0	4.076	34.915	276.7	4.035
600.0	3.875	34.899	284.9	3.831
650.0	3.816	34.896	287.1	3.769
700.0	3.770	34.896	289.7	3.720
750.0	3.725	34.896	290.6	3.671
800.0	3.697	34.895	290.6	3.639
850.0	3.656	34.893	291.5	3.594
900.0	3.625	34.892	292.4	3.560
950.0	3.616	34.894	292.0	3.547
1000.0	3.614	34.896	291.0	3.541
1050.0	3.580	34.893	291.0	3.503
1100.0	3.557	34.891	291.0	3.476
1150.0	3.520	34.887	292.3	3.435
1200.0	3.499	34.884	292.4	3.410
1250.0	3.487	34.884	291.7	3.394
1300.0	3.484	34.885	291.3	3.387
1350.0	3.500	34.889	289.6	3.399
1400.0	3.604	34.910	283.7	3.498
1450.0	3.555	34.903	284.5	3.444
1500.0	3.603	34.915	281.9	3.488
1550.0	3.609	34.920	280.0	3.489
1600.0	3.624	34.926	277.8	3.500
1650.0	3.639	34.933	275.7	3.510
1700.0	3.621	34.935	274.7	3.487
1750.0	3.614	34.940	273.8	3.476
1800.0	3.617	34.945	273.1	3.474
1850.0	3.576	34.943	273.2	3.429
1900.0	3.531	34.944	273.1	3.380
1950.0	3.502	34.946	273.0	3.346
2000.0	3.463	34.946	273.2	3.303
2050.0	3.423	34.946	273.4	3.260
2100.0	3.385	34.944	273.7	3.218
2150.0	3.331	34.945	273.7	3.159
2200.0	3.303	34.945	273.9	3.127
2250.0	3.256	34.945	274.0	3.075
2300.0	3.236	34.944	274.2	3.051
2350.0	3.204	34.944	274.4	3.015
2400.0	3.192	34.943	274.4	2.998
2450.0	3.178	34.943	274.6	2.979
2500.0	3.147	34.942	274.9	2.945
2517.0	3.116	34.941	275.3	2.912



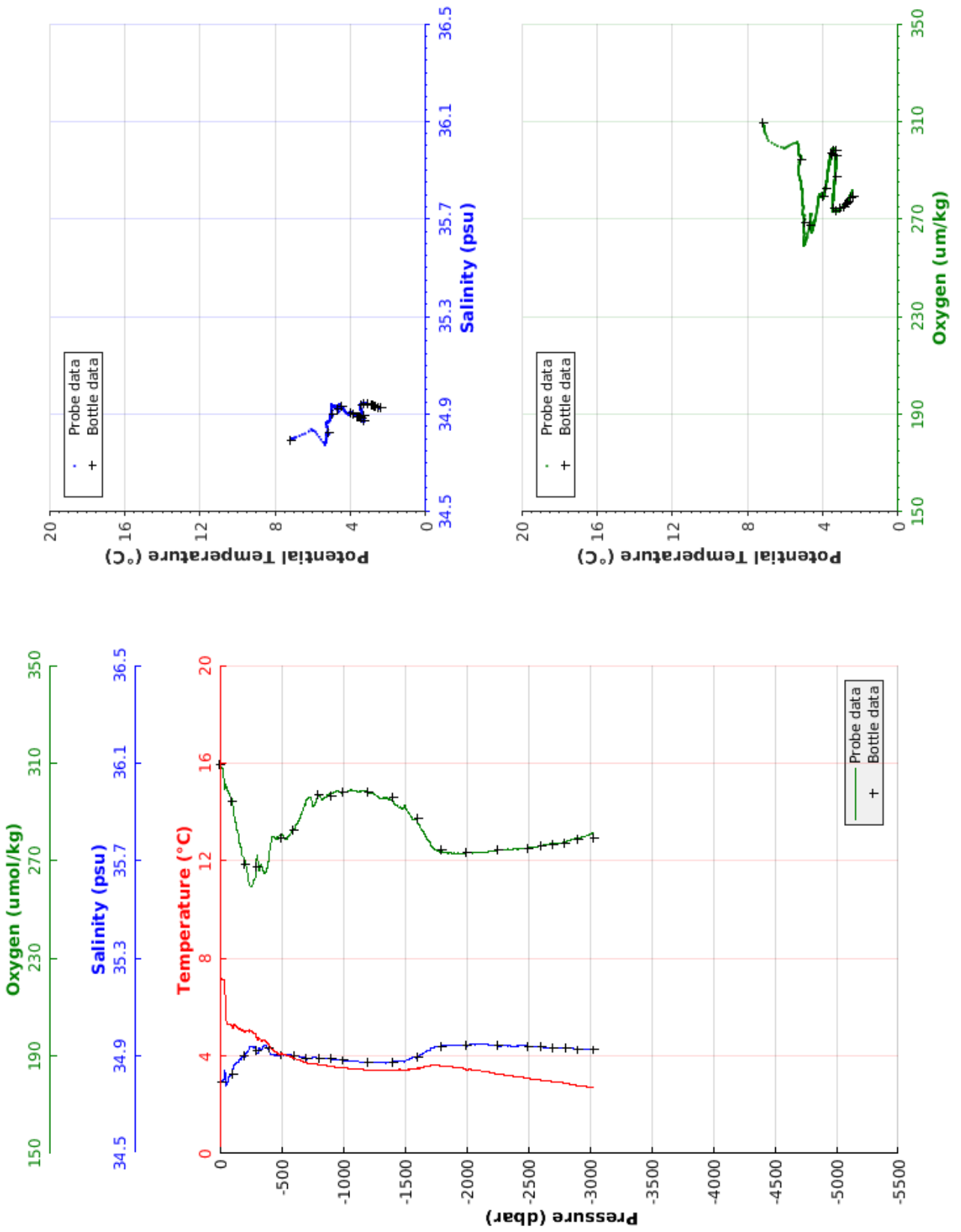
Station: 74

```

-----
| Cruise      : OVIDE 2018
| Station    : 75          Cast      : 1
| Date       : 03/07/2018   Ship     : N/O THALASSA
| Depth      : 2985 m      Organism : IFREMER
| Position   : N 59 13.96
|             W 035 7.00
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.176	34.794	308.3	7.176	3026.0	2.672	34.925	281.8	2.426
10.0	7.179	34.795	308.1	7.178					
20.0	7.161	34.794	308.3	7.159					
30.0	7.127	34.801	307.2	7.124					
40.0	6.895	34.806	302.1	6.892					
50.0	5.779	34.819	300.2	5.775					
100.0	5.181	34.820	295.9	5.173					
150.0	5.118	34.875	281.9	5.106					
200.0	5.027	34.899	271.2	5.011					
250.0	5.052	34.939	259.7	5.032					
300.0	4.691	34.914	268.6	4.668					
350.0	4.619	34.936	266.9	4.592					
400.0	4.458	34.926	269.7	4.428					
450.0	4.172	34.904	279.5	4.139					
500.0	4.100	34.907	280.7	4.063					
550.0	4.012	34.907	278.8	3.972					
600.0	3.911	34.903	282.8	3.867					
650.0	3.825	34.897	287.0	3.778					
700.0	3.730	34.892	293.0	3.680					
750.0	3.671	34.890	294.8	3.617					
800.0	3.636	34.889	296.5	3.578					
850.0	3.606	34.889	295.8	3.545					
900.0	3.569	34.887	297.4	3.504					
950.0	3.529	34.883	298.5	3.461					
1000.0	3.512	34.882	297.9	3.439					
1050.0	3.484	34.879	298.6	3.408					
1100.0	3.463	34.877	298.7	3.383					
1150.0	3.447	34.875	298.5	3.363					
1200.0	3.436	34.874	298.2	3.348					
1250.0	3.422	34.872	297.5	3.330					
1300.0	3.423	34.874	295.6	3.327					
1350.0	3.390	34.869	296.0	3.289					
1400.0	3.403	34.873	295.1	3.298					
1450.0	3.441	34.880	292.0	3.331					
1500.0	3.407	34.877	292.4	3.293					
1550.0	3.461	34.890	288.4	3.343					
1600.0	3.480	34.895	286.6	3.357					
1650.0	3.543	34.909	282.3	3.414					
1700.0	3.590	34.923	277.8	3.457					
1750.0	3.620	34.936	274.5	3.481					
1800.0	3.593	34.939	273.7	3.450					
1850.0	3.575	34.943	273.1	3.428					
1900.0	3.542	34.943	273.0	3.391					
1950.0	3.510	34.945	273.1	3.354					
2000.0	3.435	34.941	273.6	3.276					
2050.0	3.436	34.946	273.1	3.272					
2100.0	3.402	34.947	273.3	3.234					
2150.0	3.364	34.947	273.5	3.192					
2200.0	3.319	34.945	273.8	3.143					
2250.0	3.257	34.941	274.5	3.077					
2300.0	3.232	34.942	274.4	3.047					
2350.0	3.188	34.941	274.6	2.999					
2400.0	3.153	34.940	274.8	2.960					
2450.0	3.129	34.942	274.8	2.932					
2500.0	3.085	34.940	275.2	2.884					
2550.0	3.049	34.939	275.5	2.843					
2600.0	3.011	34.936	276.0	2.801					
2650.0	2.969	34.934	276.7	2.755					
2700.0	2.944	34.933	277.0	2.725					
2750.0	2.928	34.935	277.0	2.704					
2800.0	2.878	34.933	277.7	2.651					
2850.0	2.833	34.931	278.5	2.601					
2900.0	2.790	34.929	279.3	2.554					
2950.0	2.765	34.929	279.8	2.525					
3000.0	2.728	34.927	280.7	2.483					



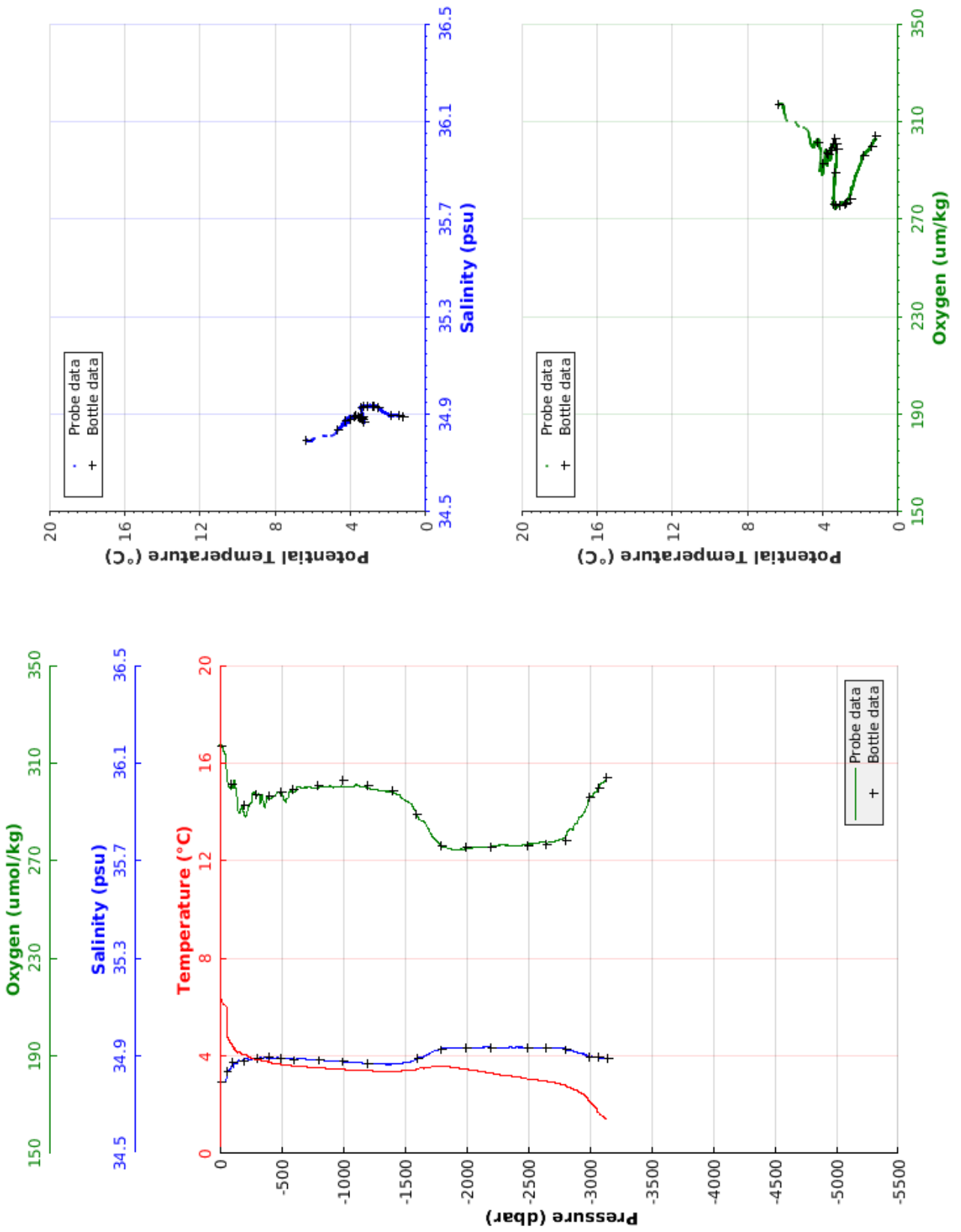
Station: 75

```

-----
| Cruise      : OVIDE 2018
| Station    : 76          Cast      : 1
| Date       : 03/07/2018   Ship     : N/O THALASSA
| Depth      : 3100 m       Organism : IFREMER
| Position   : N 59 18.01
|             W 035 45.72
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.336	34.793	317.3	6.336	3050.0	1.864	34.896	298.1	1.633
10.0	6.323	34.793	316.9	6.322	3100.0	1.539	34.892	301.9	1.311
20.0	6.223	34.791	317.1	6.221	3142.0	1.438	34.892	302.8	1.207
30.0	6.099	34.791	315.9	6.096					
40.0	6.085	34.792	314.7	6.081					
50.0	6.056	34.793	313.8	6.052					
100.0	4.476	34.860	301.5	4.468					
150.0	4.146	34.877	292.2	4.135					
200.0	4.063	34.886	289.5	4.049					
250.0	3.941	34.885	293.1	3.924					
300.0	3.857	34.892	297.3	3.836					
350.0	3.788	34.890	296.8	3.764					
400.0	3.730	34.890	295.7	3.702					
450.0	3.681	34.889	296.3	3.650					
500.0	3.651	34.890	297.7	3.616					
550.0	3.625	34.891	295.2	3.587					
600.0	3.582	34.887	298.3	3.540					
650.0	3.578	34.889	300.4	3.533					
700.0	3.553	34.887	300.1	3.504					
750.0	3.532	34.886	299.9	3.479					
800.0	3.521	34.884	299.9	3.464					
850.0	3.498	34.882	300.0	3.438					
900.0	3.463	34.877	300.6	3.398					
950.0	3.456	34.877	300.1	3.388					
1000.0	3.453	34.876	300.4	3.381					
1050.0	3.434	34.874	300.1	3.358					
1100.0	3.432	34.874	300.9	3.352					
1150.0	3.411	34.872	300.4	3.327					
1200.0	3.400	34.870	299.8	3.312					
1250.0	3.385	34.868	299.1	3.294					
1300.0	3.375	34.867	298.8	3.279					
1350.0	3.366	34.866	298.4	3.266					
1400.0	3.365	34.866	298.1	3.260					
1450.0	3.374	34.868	297.2	3.265					
1500.0	3.394	34.872	295.0	3.280					
1550.0	3.409	34.876	293.5	3.292					
1600.0	3.468	34.889	289.3	3.345					
1650.0	3.494	34.897	286.2	3.367					
1700.0	3.542	34.911	282.2	3.410					
1750.0	3.579	34.922	278.5	3.442					
1800.0	3.586	34.930	276.0	3.444					
1850.0	3.561	34.932	275.1	3.414					
1900.0	3.529	34.934	274.6	3.378					
1950.0	3.484	34.934	274.7	3.329					
2000.0	3.451	34.934	274.9	3.292					
2050.0	3.416	34.934	275.1	3.253					
2100.0	3.375	34.934	275.5	3.208					
2150.0	3.337	34.936	275.4	3.165					
2200.0	3.300	34.936	275.6	3.124					
2250.0	3.252	34.934	276.0	3.072					
2300.0	3.199	34.932	276.7	3.015					
2350.0	3.183	34.936	276.1	2.994					
2400.0	3.151	34.936	276.1	2.958					
2450.0	3.111	34.936	276.3	2.914					
2500.0	3.055	34.934	276.9	2.854					
2550.0	3.035	34.935	276.9	2.829					
2600.0	2.987	34.933	277.5	2.777					
2650.0	2.960	34.934	277.2	2.746					
2700.0	2.913	34.934	277.8	2.695					
2750.0	2.860	34.932	278.5	2.638					
2800.0	2.798	34.930	279.5	2.572					
2850.0	2.682	34.921	283.0	2.453					
2900.0	2.577	34.915	285.4	2.346					
2950.0	2.412	34.906	289.3	2.179					
3000.0	2.146	34.896	295.5	1.914					



Station: 76

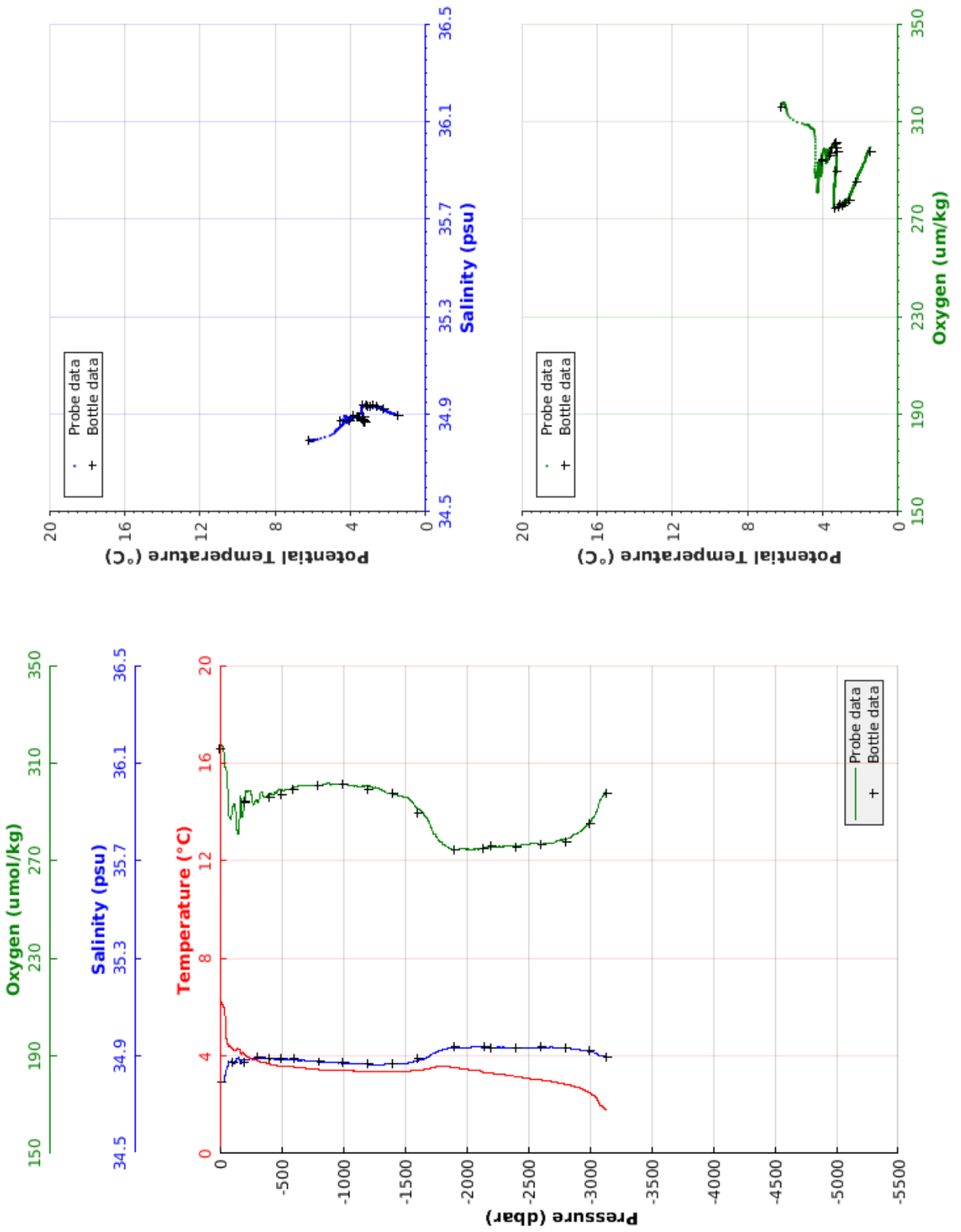

```

-----
| Cruise      : OVIDE 2018
| Station    : 77          Cast      : 1
| Date       : 04/07/2018   Ship     : N/O THALASSA
| Depth      : 3091 m      Organism : IFREMER
| Position   : N 59 21.76
|             W 036 23.68
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.203	34.793	317.1	6.203	3050.0	2.297	34.912	289.1	2.057
10.0	6.204	34.793	317.0	6.203	3100.0	1.926	34.900	295.8	1.689
20.0	6.114	34.792	317.6	6.112	3137.0	1.722	34.896	299.3	1.486
30.0	5.987	34.793	316.5	5.984					
40.0	5.891	34.795	313.3	5.888					
50.0	4.780	34.832	308.5	4.776					
100.0	4.317	34.875	288.3	4.310					
150.0	4.291	34.892	281.7	4.280					
200.0	4.072	34.884	291.4	4.058					
250.0	3.892	34.888	298.5	3.875					
300.0	3.810	34.890	294.9	3.790					
350.0	3.732	34.889	298.0	3.707					
400.0	3.688	34.889	296.9	3.661					
450.0	3.622	34.886	297.8	3.591					
500.0	3.583	34.886	299.2	3.548					
550.0	3.564	34.887	299.3	3.526					
600.0	3.546	34.885	299.7	3.504					
650.0	3.509	34.882	300.5	3.464					
700.0	3.488	34.880	300.8	3.439					
750.0	3.469	34.879	300.9	3.416					
800.0	3.445	34.876	300.8	3.389					
850.0	3.414	34.872	301.5	3.354					
900.0	3.416	34.873	301.4	3.352					
950.0	3.406	34.872	301.4	3.338					
1000.0	3.402	34.871	301.4	3.330					
1050.0	3.401	34.871	301.0	3.326					
1100.0	3.384	34.869	300.6	3.305					
1150.0	3.377	34.868	300.3	3.293					
1200.0	3.365	34.866	300.7	3.278					
1250.0	3.363	34.865	299.7	3.271					
1300.0	3.354	34.865	299.3	3.259					
1350.0	3.359	34.866	298.2	3.259					
1400.0	3.361	34.867	297.5	3.256					
1450.0	3.367	34.869	296.7	3.259					
1500.0	3.376	34.870	295.9	3.263					
1550.0	3.387	34.873	294.6	3.269					
1600.0	3.419	34.881	291.6	3.297					
1650.0	3.441	34.886	289.5	3.314					
1700.0	3.488	34.899	285.8	3.356					
1750.0	3.543	34.913	280.8	3.406					
1800.0	3.570	34.923	277.6	3.427					
1850.0	3.556	34.930	275.5	3.410					
1900.0	3.537	34.934	274.7	3.386					
1950.0	3.489	34.933	274.7	3.334					
2000.0	3.454	34.934	274.8	3.294					
2050.0	3.431	34.936	274.6	3.267					
2100.0	3.393	34.938	274.7	3.225					
2150.0	3.315	34.932	275.4	3.144					
2200.0	3.281	34.932	275.6	3.106					
2250.0	3.257	34.933	275.8	3.076					
2300.0	3.234	34.935	275.8	3.049					
2350.0	3.206	34.934	276.0	3.017					
2400.0	3.159	34.934	276.1	2.966					
2450.0	3.120	34.932	276.5	2.923					
2500.0	3.088	34.935	276.5	2.886					
2550.0	3.046	34.933	277.2	2.841					
2600.0	3.025	34.937	276.6	2.815					
2650.0	2.984	34.934	277.1	2.770					
2700.0	2.946	34.935	277.0	2.728					
2750.0	2.894	34.933	278.3	2.672					
2800.0	2.847	34.933	278.5	2.620					
2850.0	2.789	34.929	279.7	2.558					
2900.0	2.708	34.926	281.3	2.474					
2950.0	2.617	34.923	283.1	2.380					
3000.0	2.477	34.918	285.5	2.238					





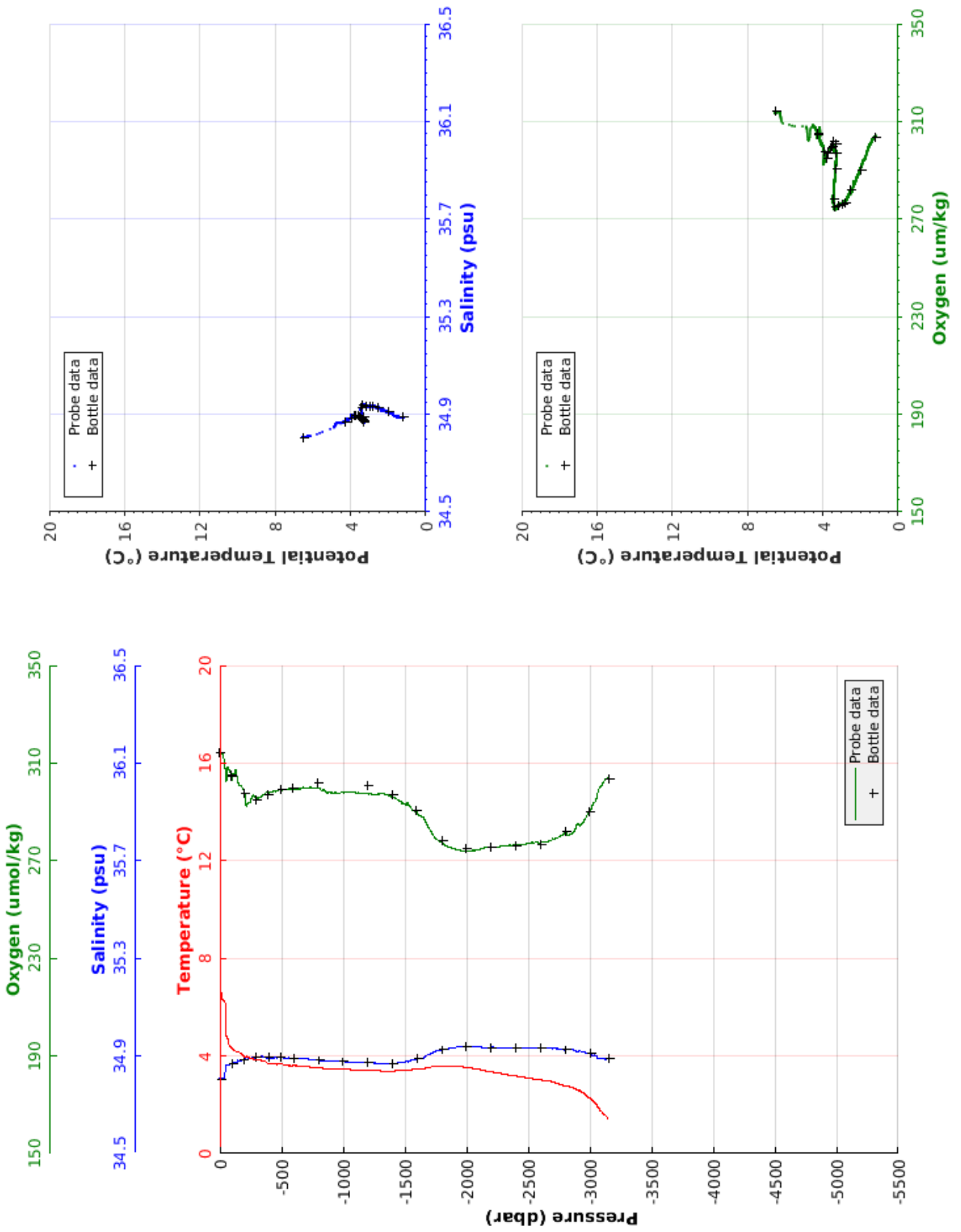
Station: 77

```

-----
| Cruise      : OVIDE 2018
| Station    : 78          Cast      : 1
| Date       : 04/07/2018   Ship     : N/O THALASSA
| Depth      : 3115 m      Organism : IFREMER
| Position   : N 59 25.65
|             W 037 2.30
|-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.560	34.807	313.9	6.560	3050.0	2.010	34.902	294.6	1.776
10.0	6.560	34.807	313.7	6.559	3100.0	1.705	34.889	301.0	1.473
20.0	6.330	34.806	313.9	6.329	3150.0	1.438	34.889	303.8	1.207
30.0	6.294	34.809	313.9	6.291	3159.0	1.432	34.889	304.1	1.201
40.0	6.231	34.811	311.2	6.227					
50.0	4.857	34.849	307.1	4.853					
100.0	4.296	34.868	303.2	4.289					
150.0	4.188	34.882	302.9	4.177					
200.0	3.971	34.886	298.8	3.957					
250.0	3.913	34.892	293.7	3.895					
300.0	3.864	34.895	296.0	3.843					
350.0	3.809	34.898	296.6	3.784					
400.0	3.692	34.890	297.8	3.664					
450.0	3.683	34.894	298.6	3.652					
500.0	3.661	34.894	299.0	3.626					
550.0	3.606	34.888	299.3	3.568					
600.0	3.610	34.891	299.3	3.568					
650.0	3.584	34.889	299.5	3.538					
700.0	3.564	34.888	299.9	3.515					
750.0	3.529	34.884	299.8	3.476					
800.0	3.507	34.882	299.8	3.451					
850.0	3.492	34.881	298.5	3.432					
900.0	3.474	34.879	298.3	3.410					
950.0	3.467	34.878	297.8	3.399					
1000.0	3.454	34.877	298.1	3.382					
1050.0	3.444	34.876	297.9	3.368					
1100.0	3.434	34.875	298.1	3.354					
1150.0	3.430	34.874	297.7	3.346					
1200.0	3.414	34.872	297.6	3.326					
1250.0	3.407	34.872	297.2	3.315					
1300.0	3.392	34.869	297.3	3.296					
1350.0	3.378	34.867	297.0	3.278					
1400.0	3.384	34.869	296.0	3.279					
1450.0	3.399	34.872	294.8	3.290					
1500.0	3.411	34.876	293.3	3.298					
1550.0	3.429	34.879	292.1	3.311					
1600.0	3.457	34.886	289.8	3.335					
1650.0	3.469	34.891	287.9	3.342					
1700.0	3.533	34.906	283.3	3.401					
1750.0	3.581	34.919	279.2	3.444					
1800.0	3.587	34.924	277.6	3.444					
1850.0	3.582	34.930	275.9	3.435					
1900.0	3.566	34.933	275.0	3.414					
1950.0	3.564	34.939	274.2	3.408					
2000.0	3.535	34.939	274.0	3.374					
2050.0	3.487	34.939	274.1	3.323					
2100.0	3.450	34.939	274.4	3.281					
2150.0	3.392	34.935	275.2	3.220					
2200.0	3.344	34.935	275.4	3.167					
2250.0	3.303	34.934	275.7	3.122					
2300.0	3.251	34.933	276.1	3.066					
2350.0	3.217	34.933	276.3	3.028					
2400.0	3.178	34.933	276.5	2.985					
2450.0	3.138	34.933	276.8	2.941					
2500.0	3.096	34.933	277.0	2.895					
2550.0	3.053	34.933	277.3	2.848					
2600.0	3.020	34.933	277.4	2.810					
2650.0	2.988	34.933	277.8	2.774					
2700.0	2.910	34.928	279.1	2.692					
2750.0	2.841	34.928	279.7	2.619					
2800.0	2.758	34.924	281.7	2.533					
2850.0	2.717	34.926	281.0	2.487					
2900.0	2.591	34.917	285.0	2.359					
2950.0	2.481	34.916	286.0	2.247					
3000.0	2.267	34.909	290.1	2.032					



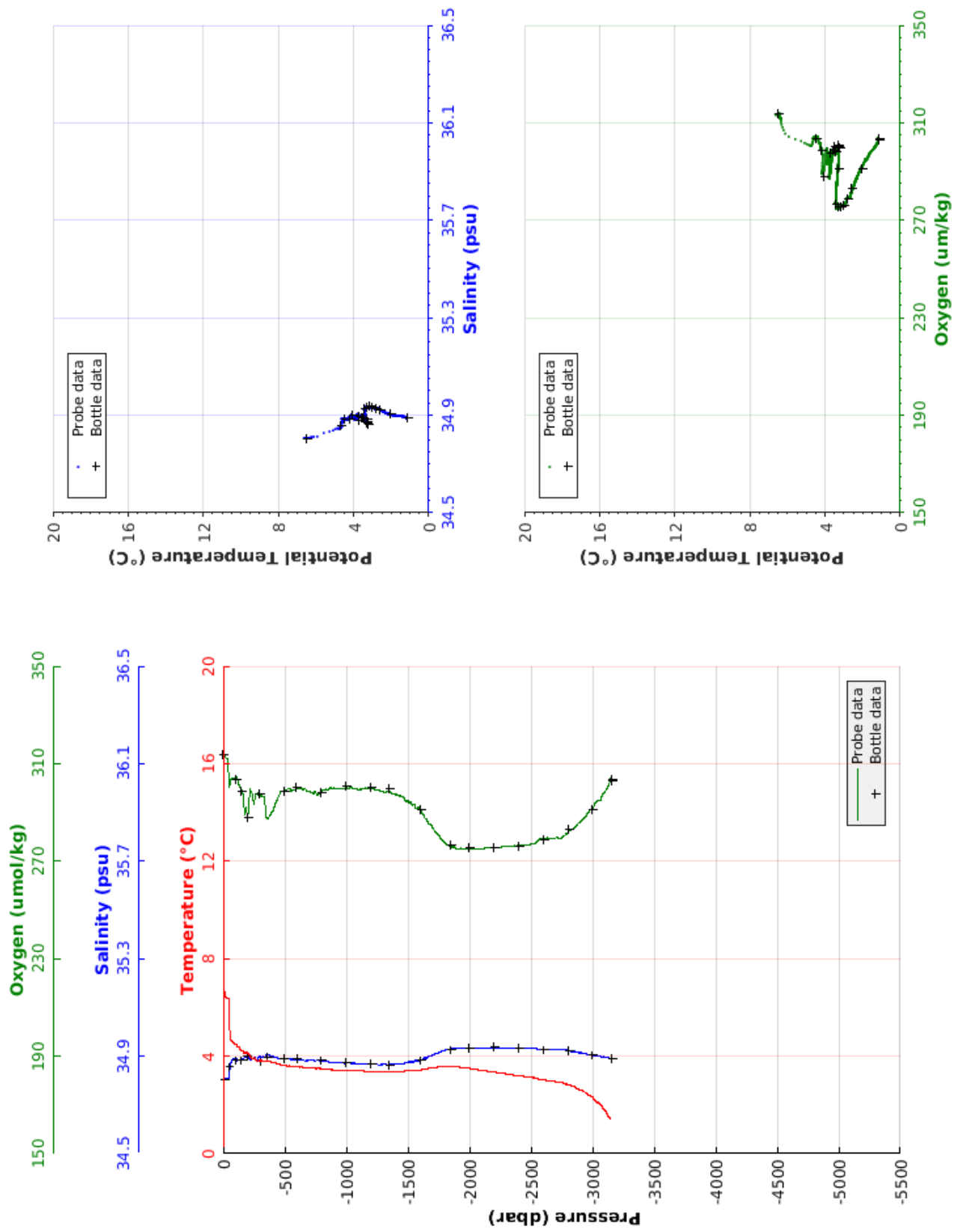
Station: 78

```

-----
| Cruise      : OVIDE 2018
| Station    : 79          Cast      : 1
| Date       : 04/07/2018   Ship     : N/O THALASSA
| Depth      : 3108 m      Organism : IFREMER
| Position   : N 59 29.54
|            : W 037 40.66
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.637	34.806	313.3	6.637	3050.0	2.090	34.902	294.7	1.854
10.0	6.636	34.806	313.4	6.635	3100.0	1.782	34.897	298.2	1.548
20.0	6.422	34.806	313.8	6.421	3150.0	1.401	34.889	303.7	1.171
30.0	6.392	34.808	312.2	6.390	3154.0	1.407	34.890	304.0	1.176
40.0	6.373	34.807	311.8	6.370					
50.0	5.946	34.813	304.3	5.942					
100.0	4.503	34.888	303.8	4.495					
150.0	4.237	34.889	299.5	4.226					
200.0	4.146	34.902	289.2	4.131					
250.0	3.895	34.889	294.9	3.877					
300.0	3.849	34.898	296.2	3.828					
350.0	3.803	34.901	291.0	3.778					
400.0	3.754	34.901	290.1	3.726					
450.0	3.660	34.892	295.9	3.629					
500.0	3.609	34.889	299.1	3.574					
550.0	3.584	34.887	299.7	3.546					
600.0	3.563	34.887	299.6	3.521					
650.0	3.539	34.885	299.5	3.494					
700.0	3.518	34.884	298.5	3.469					
750.0	3.490	34.880	298.6	3.437					
800.0	3.473	34.879	298.2	3.416					
850.0	3.457	34.877	299.3	3.397					
900.0	3.425	34.873	300.0	3.361					
950.0	3.428	34.874	299.7	3.360					
1000.0	3.413	34.872	299.9	3.341					
1050.0	3.401	34.871	300.0	3.326					
1100.0	3.400	34.871	299.3	3.320					
1150.0	3.387	34.869	299.9	3.303					
1200.0	3.376	34.867	299.7	3.289					
1250.0	3.367	34.866	299.1	3.275					
1300.0	3.366	34.866	298.5	3.270					
1350.0	3.356	34.865	298.6	3.256					
1400.0	3.368	34.867	297.3	3.264					
1450.0	3.376	34.869	296.8	3.267					
1500.0	3.391	34.873	294.5	3.278					
1550.0	3.408	34.877	293.3	3.290					
1600.0	3.428	34.882	291.5	3.306					
1650.0	3.474	34.892	287.4	3.346					
1700.0	3.516	34.903	284.5	3.384					
1750.0	3.554	34.913	281.0	3.417					
1800.0	3.578	34.923	277.8	3.436					
1850.0	3.579	34.929	276.3	3.432					
1900.0	3.569	34.933	275.1	3.417					
1950.0	3.533	34.933	275.1	3.377					
2000.0	3.497	34.934	274.8	3.337					
2050.0	3.456	34.934	275.2	3.292					
2100.0	3.428	34.934	275.1	3.259					
2150.0	3.386	34.934	275.4	3.214					
2200.0	3.347	34.934	275.6	3.170					
2250.0	3.313	34.935	275.7	3.132					
2300.0	3.274	34.934	276.0	3.089					
2350.0	3.230	34.933	276.2	3.041					
2400.0	3.200	34.934	276.3	3.006					
2450.0	3.170	34.933	276.6	2.972					
2500.0	3.137	34.933	276.8	2.935					
2550.0	3.076	34.930	277.8	2.870					
2600.0	3.027	34.927	279.2	2.816					
2650.0	2.989	34.928	279.4	2.775					
2700.0	2.949	34.928	279.4	2.731					
2750.0	2.914	34.928	279.3	2.691					
2800.0	2.841	34.924	281.4	2.614					
2850.0	2.750	34.919	283.6	2.520					
2900.0	2.625	34.915	285.9	2.393					
2950.0	2.489	34.909	288.5	2.255					
3000.0	2.314	34.904	291.6	2.078					



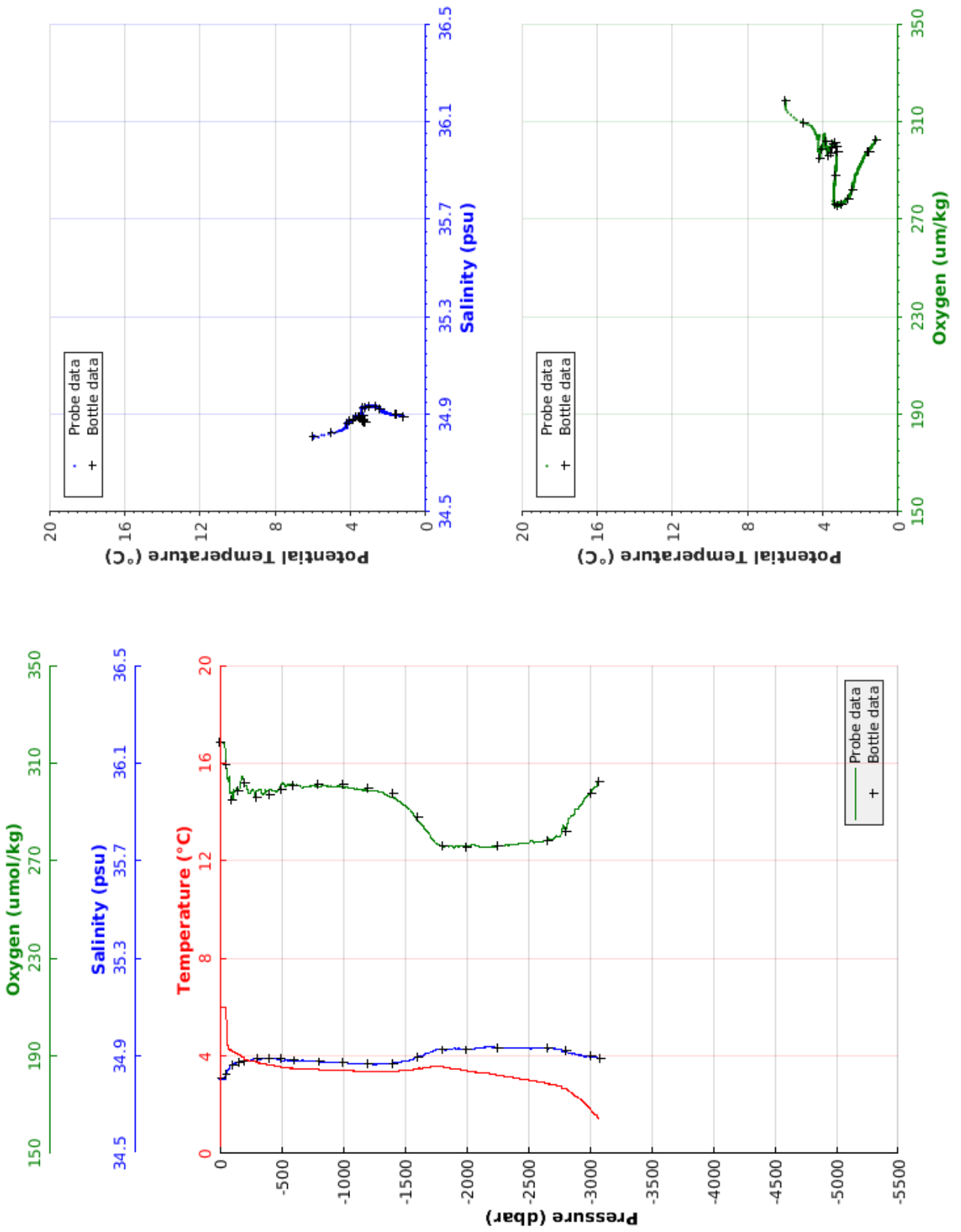
Station: 79



```

-----
| Cruise      : OVIDE 2018
| Station    : 80          Cast      : 1
| Date       : 04/07/2018   Ship       : N/O THALASSA
| Depth      : 3040 m      Organism  : IFREMER
| Position   : N 59 33.43
|             W 038 19.05
-----
    
```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.	PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.	dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	5.984	34.804	318.7	5.984	3050.0	1.581	34.895	300.4	1.356
10.0	5.984	34.804	318.5	5.983	3079.0	1.417	34.891	303.1	1.194
20.0	5.991	34.804	318.5	5.989					
30.0	5.989	34.804	318.5	5.986					
40.0	5.988	34.808	317.9	5.984					
50.0	5.957	34.812	314.8	5.952					
100.0	4.186	34.860	297.8	4.179					
150.0	4.078	34.873	299.2	4.068					
200.0	3.884	34.877	302.7	3.871					
250.0	3.774	34.881	297.8	3.757					
300.0	3.747	34.888	298.1	3.727					
350.0	3.676	34.888	297.4	3.652					
400.0	3.637	34.889	298.8	3.609					
450.0	3.595	34.888	298.5	3.564					
500.0	3.529	34.881	300.8	3.494					
550.0	3.516	34.881	301.0	3.478					
600.0	3.482	34.879	301.4	3.440					
650.0	3.469	34.878	301.0	3.424					
700.0	3.474	34.880	300.2	3.425					
750.0	3.461	34.879	300.5	3.408					
800.0	3.442	34.876	300.1	3.386					
850.0	3.433	34.875	300.7	3.373					
900.0	3.425	34.875	300.5	3.361					
950.0	3.417	34.873	300.4	3.349					
1000.0	3.409	34.873	300.4	3.338					
1050.0	3.395	34.871	300.0	3.319					
1100.0	3.386	34.870	299.4	3.307					
1150.0	3.373	34.868	299.2	3.289					
1200.0	3.364	34.867	298.8	3.277					
1250.0	3.356	34.865	298.7	3.264					
1300.0	3.356	34.866	298.3	3.261					
1350.0	3.369	34.868	297.1	3.269					
1400.0	3.378	34.871	296.1	3.274					
1450.0	3.389	34.874	294.5	3.280					
1500.0	3.405	34.878	292.8	3.292					
1550.0	3.427	34.883	290.6	3.310					
1600.0	3.480	34.895	287.0	3.357					
1650.0	3.506	34.903	284.4	3.378					
1700.0	3.537	34.913	281.2	3.404					
1750.0	3.578	34.925	277.4	3.441					
1800.0	3.562	34.928	276.1	3.420					
1850.0	3.506	34.927	276.0	3.360					
1900.0	3.485	34.931	275.4	3.335					
1950.0	3.423	34.927	275.9	3.268					
2000.0	3.387	34.930	275.6	3.229					
2050.0	3.345	34.929	276.5	3.182					
2100.0	3.317	34.933	275.8	3.151					
2150.0	3.296	34.936	275.4	3.125					
2200.0	3.266	34.936	275.6	3.090					
2250.0	3.217	34.934	275.8	3.038					
2300.0	3.179	34.935	276.1	2.995					
2350.0	3.141	34.934	276.3	2.953					
2400.0	3.102	34.933	276.7	2.910					
2450.0	3.061	34.932	277.1	2.865					
2500.0	3.023	34.934	277.1	2.822					
2550.0	2.982	34.933	277.4	2.778					
2600.0	2.937	34.933	277.8	2.728					
2650.0	2.887	34.932	278.3	2.675					
2700.0	2.839	34.933	278.6	2.623					
2750.0	2.766	34.929	280.0	2.546					
2800.0	2.660	34.923	282.9	2.437					
2850.0	2.483	34.909	288.2	2.258					
2900.0	2.316	34.906	291.2	2.091					
2950.0	2.098	34.900	294.2	1.872					
3000.0	1.845	34.898	297.5	1.619					



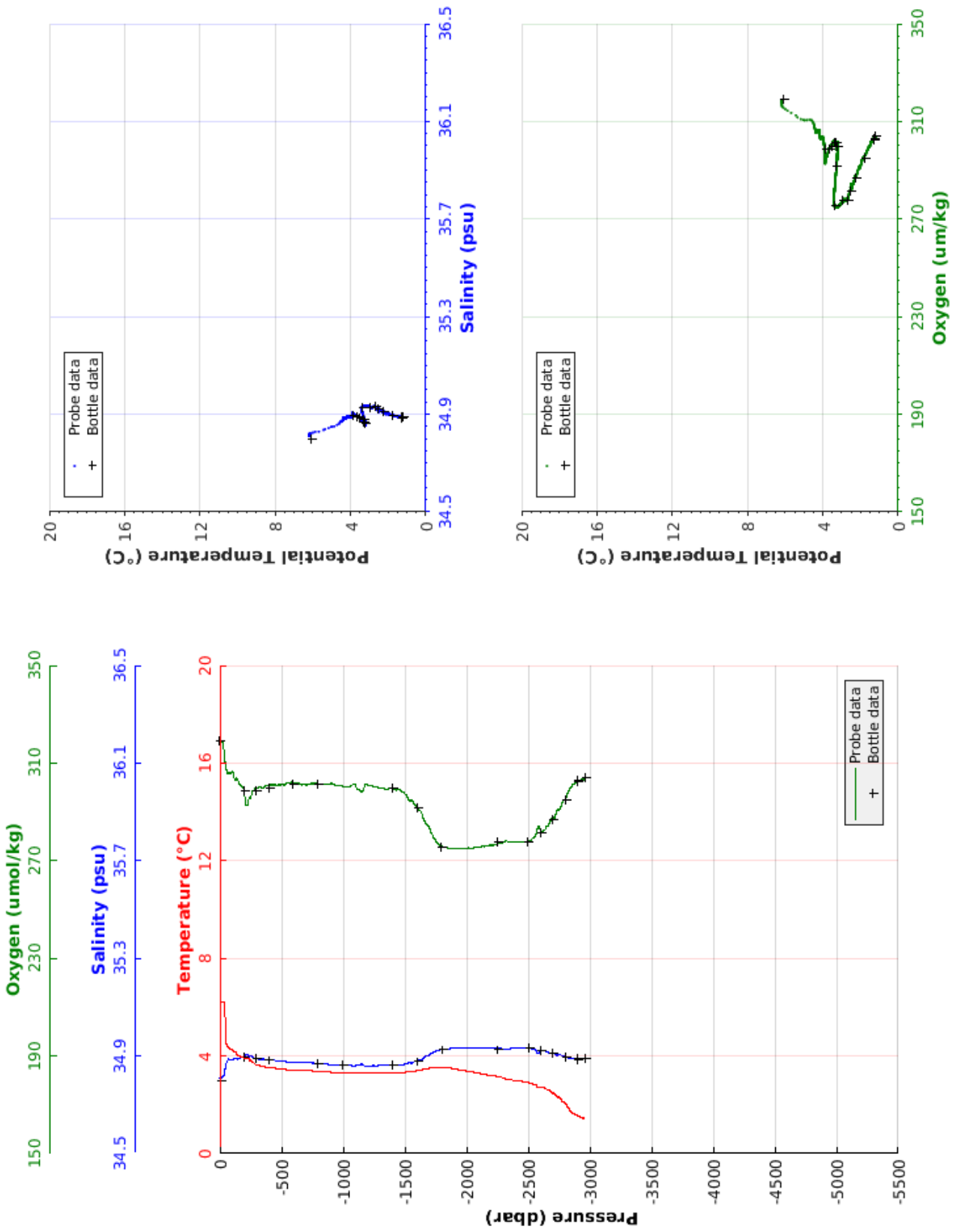
Station: 80


```

-----
| Cruise      : OVIDE 2018
| Station     : 81           Cast      : 1
| Date        : 05/07/2018   Ship       : N/O THALASSA
| Depth       : 2925 m       Organism  : IFREMER
| Position    : N 59 37.46
|              W 038 57.32
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.185	34.811	318.8	6.185
10.0	6.185	34.812	318.6	6.184
20.0	6.187	34.813	318.4	6.185
30.0	6.192	34.818	318.3	6.189
40.0	5.998	34.825	315.0	5.995
50.0	4.622	34.860	310.6	4.618
100.0	4.243	34.883	306.1	4.236
150.0	4.011	34.888	303.4	4.001
200.0	3.912	34.898	298.8	3.899
250.0	3.812	34.899	295.8	3.794
300.0	3.637	34.889	299.6	3.617
350.0	3.582	34.888	299.7	3.558
400.0	3.517	34.883	300.7	3.490
450.0	3.493	34.882	301.3	3.462
500.0	3.467	34.880	301.0	3.433
550.0	3.434	34.876	301.7	3.396
600.0	3.414	34.874	301.9	3.372
650.0	3.412	34.875	301.6	3.367
700.0	3.407	34.874	301.1	3.358
750.0	3.386	34.871	301.7	3.334
800.0	3.378	34.870	301.3	3.322
850.0	3.352	34.867	301.4	3.292
900.0	3.333	34.864	301.2	3.270
950.0	3.320	34.863	300.9	3.253
1000.0	3.312	34.862	300.6	3.241
1050.0	3.305	34.861	300.2	3.231
1100.0	3.291	34.859	301.3	3.212
1150.0	3.330	34.866	298.3	3.247
1200.0	3.287	34.859	301.2	3.201
1250.0	3.298	34.861	300.4	3.207
1300.0	3.300	34.861	299.8	3.205
1350.0	3.306	34.862	299.4	3.207
1400.0	3.302	34.861	299.8	3.198
1450.0	3.312	34.863	299.0	3.204
1500.0	3.327	34.866	297.9	3.215
1550.0	3.365	34.873	294.6	3.248
1600.0	3.397	34.880	291.7	3.275
1650.0	3.444	34.891	287.9	3.317
1700.0	3.493	34.904	283.6	3.361
1750.0	3.545	34.919	278.6	3.408
1800.0	3.535	34.926	275.9	3.393
1850.0	3.510	34.929	275.4	3.364
1900.0	3.483	34.931	274.8	3.332
1950.0	3.428	34.933	274.9	3.273
2000.0	3.380	34.933	275.2	3.222
2050.0	3.343	34.933	275.2	3.181
2100.0	3.292	34.933	275.5	3.126
2150.0	3.237	34.932	276.0	3.067
2200.0	3.191	34.931	276.4	3.017
2250.0	3.151	34.929	276.7	2.973
2300.0	3.085	34.928	277.5	2.903
2350.0	3.032	34.929	277.9	2.846
2400.0	2.993	34.931	277.8	2.803
2450.0	2.957	34.932	277.7	2.763
2500.0	2.911	34.932	278.0	2.713
2550.0	2.832	34.927	279.6	2.631
2600.0	2.721	34.919	283.1	2.517
2650.0	2.630	34.917	283.8	2.422
2700.0	2.471	34.909	287.7	2.262
2750.0	2.301	34.908	290.8	2.090
2800.0	2.064	34.899	295.0	1.853
2850.0	1.720	34.892	299.9	1.511
2900.0	1.521	34.888	302.6	1.312
2950.0	1.444	34.889	303.2	1.232
2965.0	1.433	34.889	303.3	1.220



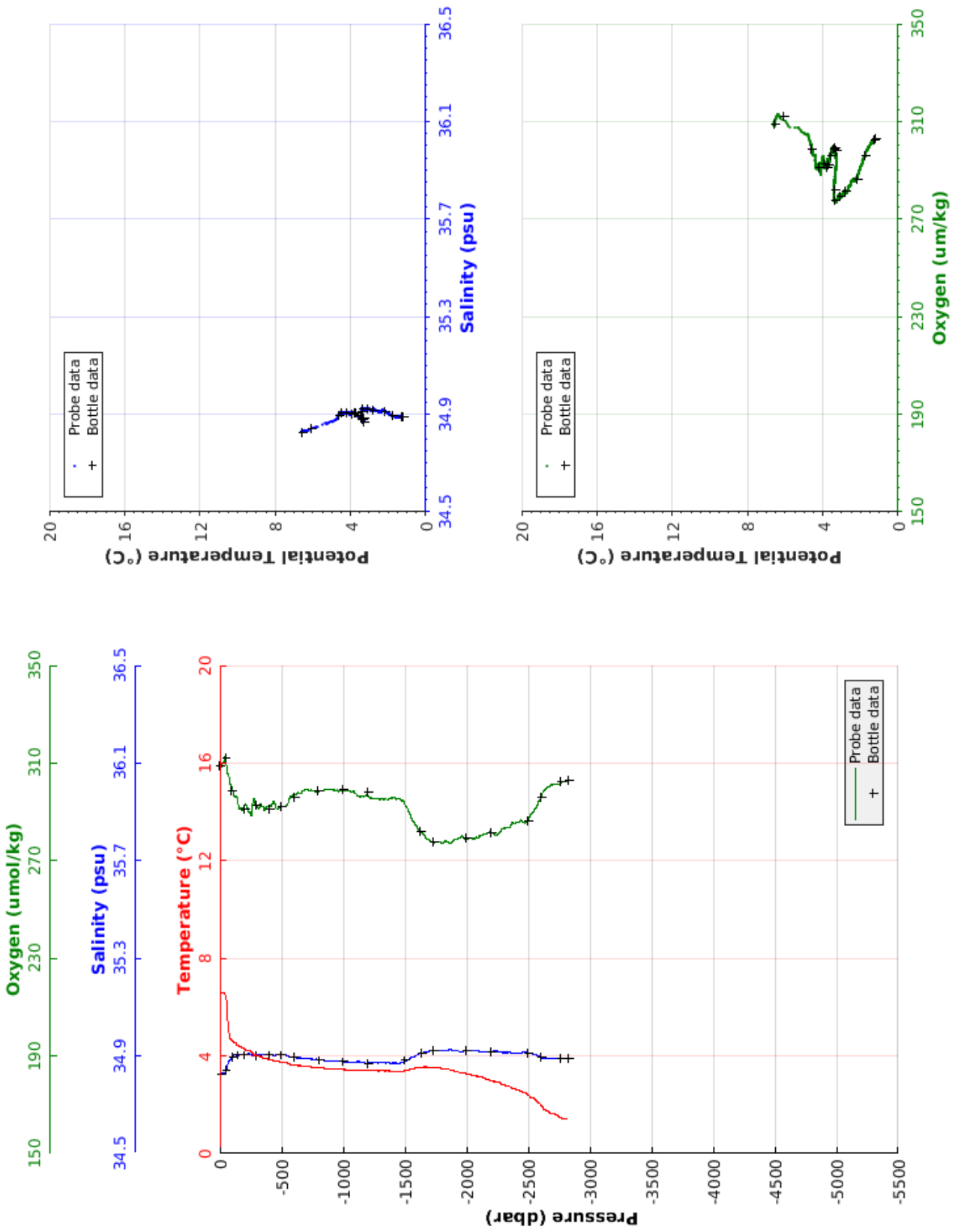
Station: 81

```

-----
| Cruise      : OVIDE 2018
| Station     : 82           Cast      : 1
| Date        : 05/07/2018   Ship       : N/O THALASSA
| Depth       : 2792 m       Organism  : IFREMER
| Position    : N 59 41.13
|              W 039 35.92
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.581	34.826	310.0	6.581
10.0	6.580	34.830	308.3	6.579
20.0	6.575	34.830	308.6	6.573
30.0	6.566	34.830	309.9	6.563
40.0	6.531	34.831	310.6	6.528
50.0	6.370	34.832	312.8	6.366
100.0	4.646	34.895	300.7	4.639
150.0	4.431	34.906	294.0	4.420
200.0	4.263	34.906	291.8	4.248
250.0	4.167	34.907	290.0	4.149
300.0	4.008	34.905	292.4	3.987
350.0	3.915	34.906	292.1	3.890
400.0	3.852	34.905	292.1	3.824
450.0	3.781	34.903	293.4	3.749
500.0	3.747	34.904	292.4	3.712
550.0	3.711	34.902	292.9	3.672
600.0	3.635	34.895	296.4	3.592
650.0	3.606	34.893	297.5	3.560
700.0	3.555	34.887	299.3	3.506
750.0	3.544	34.887	298.9	3.491
800.0	3.528	34.886	298.1	3.471
850.0	3.491	34.881	298.9	3.430
900.0	3.470	34.879	299.1	3.406
950.0	3.451	34.877	298.9	3.383
1000.0	3.442	34.876	298.9	3.370
1050.0	3.436	34.876	298.7	3.360
1100.0	3.430	34.875	297.7	3.350
1150.0	3.420	34.874	296.3	3.336
1200.0	3.390	34.870	296.8	3.302
1250.0	3.401	34.873	295.4	3.309
1300.0	3.397	34.873	295.1	3.301
1350.0	3.391	34.873	295.5	3.290
1400.0	3.376	34.871	295.7	3.272
1450.0	3.365	34.870	295.5	3.257
1500.0	3.394	34.877	293.4	3.281
1550.0	3.453	34.889	288.9	3.335
1600.0	3.519	34.903	284.2	3.396
1650.0	3.547	34.913	281.0	3.418
1700.0	3.545	34.920	278.4	3.413
1750.0	3.523	34.923	277.5	3.386
1800.0	3.493	34.924	277.4	3.352
1850.0	3.445	34.923	277.8	3.299
1900.0	3.392	34.922	278.1	3.243
1950.0	3.313	34.919	279.5	3.161
2000.0	3.272	34.922	278.6	3.116
2050.0	3.210	34.921	279.1	3.049
2100.0	3.165	34.921	279.4	3.001
2150.0	3.068	34.918	280.9	2.901
2200.0	2.983	34.917	281.7	2.812
2250.0	2.937	34.921	280.6	2.762
2300.0	2.809	34.914	283.2	2.632
2350.0	2.746	34.915	283.6	2.565
2400.0	2.652	34.911	285.4	2.468
2450.0	2.524	34.913	286.3	2.338
2500.0	2.401	34.913	286.5	2.212
2550.0	2.228	34.907	290.4	2.038
2600.0	1.996	34.895	295.0	1.805
2650.0	1.751	34.889	299.5	1.561
2700.0	1.637	34.887	301.1	1.444
2750.0	1.504	34.891	301.4	1.310
2800.0	1.430	34.890	302.5	1.232
2829.0	1.424	34.890	302.7	1.224



Station: 82

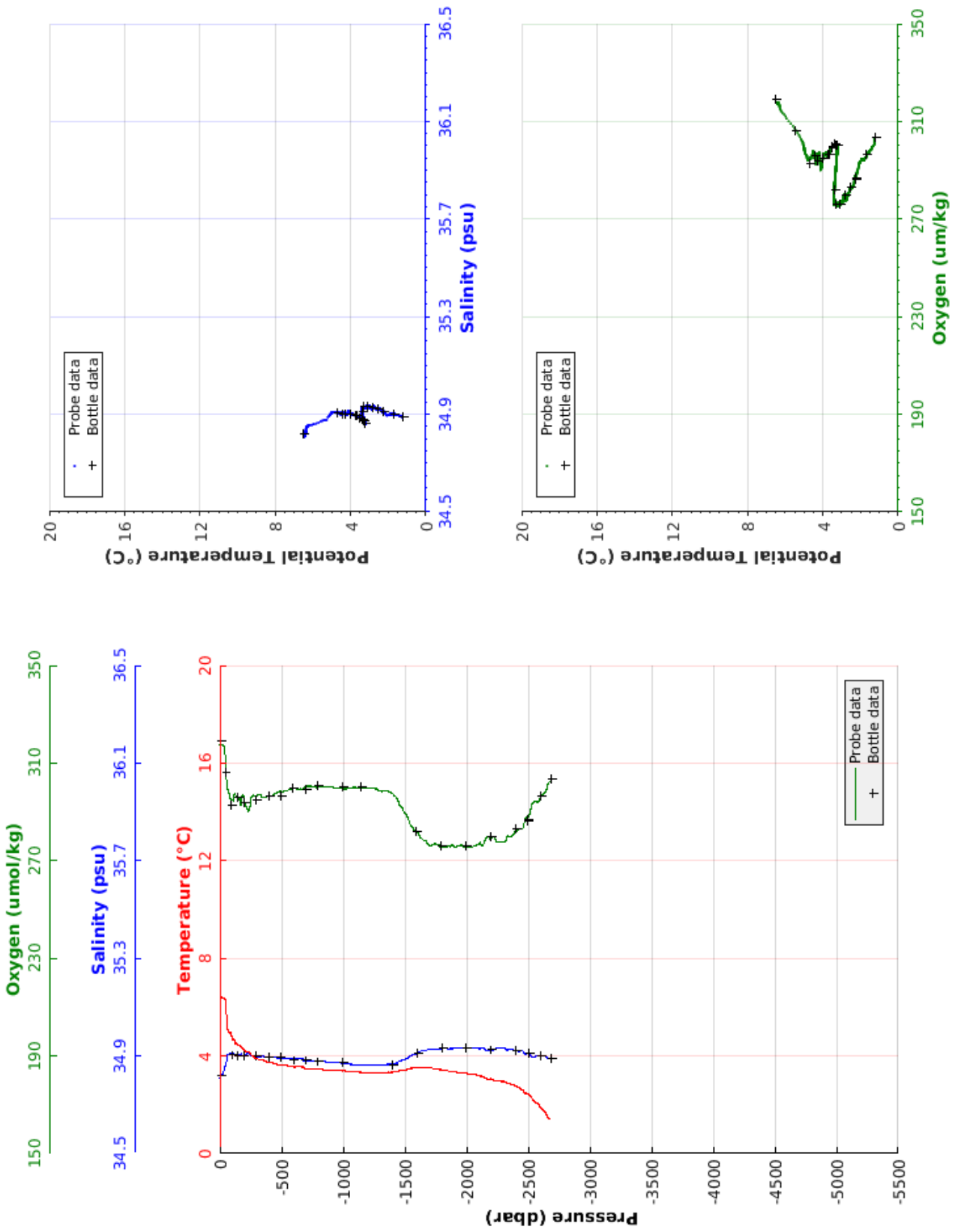


```

-----
| Cruise      : OVIDE 2018
| Station    : 83          Cast      : 1
| Date       : 05/07/2018   Ship     : N/O THALASSA
| Depth      : 2657 m       Organism : IFREMER
| Position   : N 59 43.39
|             W 040 14.99
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.436	34.809	317.5	6.436
10.0	6.406	34.820	317.5	6.405
20.0	6.393	34.822	317.5	6.392
30.0	6.377	34.829	317.5	6.375
40.0	6.311	34.849	316.7	6.308
50.0	5.975	34.860	312.1	5.971
100.0	4.772	34.909	294.3	4.764
150.0	4.439	34.904	296.1	4.428
200.0	4.207	34.901	296.0	4.193
250.0	4.084	34.908	292.1	4.066
300.0	3.882	34.899	296.6	3.861
350.0	3.832	34.899	296.0	3.808
400.0	3.736	34.897	296.4	3.708
450.0	3.666	34.894	297.4	3.635
500.0	3.624	34.891	298.3	3.589
550.0	3.601	34.890	298.6	3.562
600.0	3.549	34.886	299.7	3.507
650.0	3.556	34.889	299.4	3.510
700.0	3.477	34.879	300.3	3.428
750.0	3.458	34.877	300.5	3.406
800.0	3.458	34.879	300.0	3.401
850.0	3.436	34.877	300.2	3.376
900.0	3.426	34.876	300.2	3.362
950.0	3.404	34.873	299.7	3.337
1000.0	3.390	34.871	299.5	3.319
1050.0	3.370	34.868	299.6	3.295
1100.0	3.348	34.865	300.0	3.269
1150.0	3.330	34.863	299.7	3.247
1200.0	3.324	34.863	299.8	3.237
1250.0	3.320	34.862	299.9	3.228
1300.0	3.326	34.864	298.7	3.231
1350.0	3.329	34.865	298.5	3.230
1400.0	3.333	34.866	297.7	3.230
1450.0	3.387	34.876	294.3	3.278
1500.0	3.430	34.887	290.0	3.316
1550.0	3.497	34.903	284.6	3.378
1600.0	3.515	34.909	281.9	3.391
1650.0	3.540	34.922	278.8	3.411
1700.0	3.522	34.928	276.2	3.389
1750.0	3.470	34.926	277.0	3.334
1800.0	3.423	34.928	276.0	3.282
1850.0	3.390	34.929	275.7	3.245
1900.0	3.355	34.931	275.9	3.206
1950.0	3.311	34.931	276.1	3.159
2000.0	3.281	34.934	275.7	3.124
2050.0	3.250	34.934	275.7	3.089
2100.0	3.200	34.933	276.4	3.035
2150.0	3.109	34.927	277.8	2.941
2200.0	3.024	34.924	278.8	2.853
2250.0	2.994	34.932	277.7	2.818
2300.0	2.959	34.932	277.7	2.779
2350.0	2.863	34.927	279.8	2.680
2400.0	2.753	34.922	282.0	2.567
2450.0	2.622	34.921	283.0	2.434
2500.0	2.441	34.911	287.4	2.252
2550.0	2.144	34.897	294.2	1.956
2600.0	1.871	34.900	295.8	1.683
2650.0	1.567	34.894	299.1	1.380
2691.0	1.441	34.891	302.4	1.254



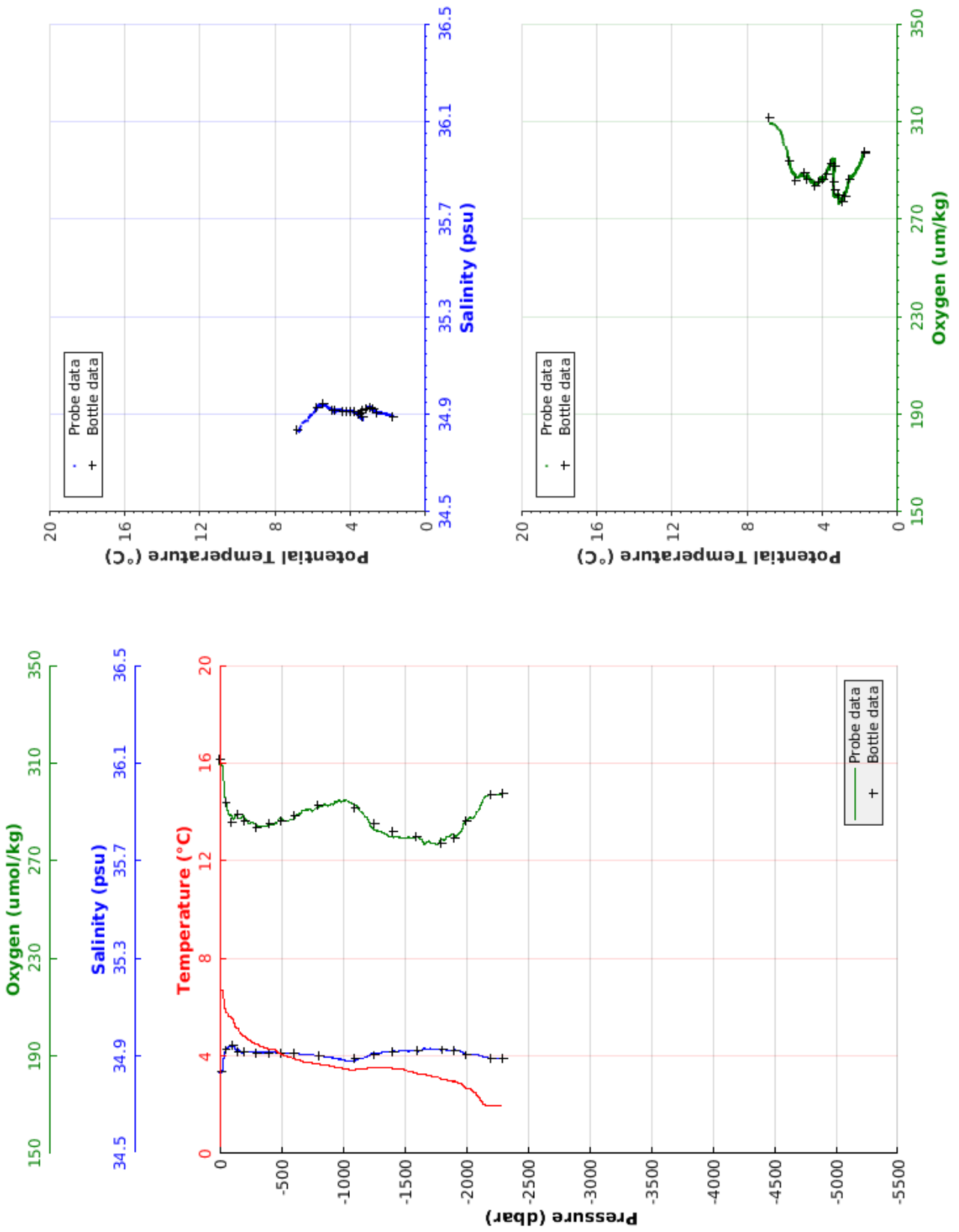
Station: 83

```

-----
| Cruise      : OVIDE 2018
| Station     : 84           Cast      : 1
| Date        : 05/07/2018   Ship       : N/O THALASSA
| Depth       : 2271 m       Organism  : IFREMER
| Position    : N 59 45.33
|              W 040 54.20
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.721	34.831	309.2	6.721
10.0	6.718	34.832	309.2	6.717
20.0	6.701	34.835	309.1	6.699
30.0	6.405	34.872	307.7	6.402
40.0	6.095	34.898	301.3	6.092
50.0	5.841	34.918	295.5	5.837
100.0	5.525	34.938	288.7	5.517
150.0	5.114	34.927	287.6	5.102
200.0	4.824	34.916	288.2	4.809
250.0	4.618	34.917	285.1	4.599
300.0	4.478	34.916	284.9	4.456
350.0	4.370	34.914	283.9	4.344
400.0	4.272	34.915	284.8	4.242
450.0	4.243	34.915	285.1	4.209
500.0	4.075	34.913	287.2	4.038
550.0	3.979	34.913	286.1	3.939
600.0	3.898	34.911	287.0	3.855
650.0	3.817	34.908	289.4	3.770
700.0	3.746	34.906	290.5	3.695
750.0	3.712	34.904	290.6	3.658
800.0	3.665	34.901	291.6	3.607
850.0	3.635	34.898	292.7	3.573
900.0	3.586	34.895	292.5	3.521
950.0	3.529	34.889	294.1	3.460
1000.0	3.488	34.884	294.5	3.415
1050.0	3.439	34.880	294.4	3.363
1100.0	3.441	34.882	292.8	3.361
1150.0	3.464	34.889	290.2	3.380
1200.0	3.497	34.898	287.4	3.408
1250.0	3.517	34.911	283.0	3.424
1300.0	3.514	34.913	282.0	3.417
1350.0	3.507	34.916	280.9	3.405
1400.0	3.497	34.919	279.9	3.391
1450.0	3.459	34.919	279.9	3.350
1500.0	3.419	34.920	279.2	3.305
1550.0	3.350	34.920	279.5	3.233
1600.0	3.278	34.920	279.6	3.158
1650.0	3.232	34.928	278.0	3.108
1700.0	3.180	34.927	277.9	3.052
1750.0	3.146	34.930	276.9	3.014
1800.0	3.056	34.924	279.2	2.921
1850.0	3.000	34.922	280.0	2.861
1900.0	2.954	34.923	280.5	2.811
1950.0	2.892	34.920	281.5	2.746
2000.0	2.676	34.905	286.7	2.528
2050.0	2.549	34.907	287.5	2.399
2100.0	2.310	34.902	290.4	2.159
2150.0	1.989	34.893	296.1	1.839
2200.0	1.953	34.892	297.0	1.799
2250.0	1.943	34.892	297.3	1.785
2296.0	1.941	34.891	297.5	1.779



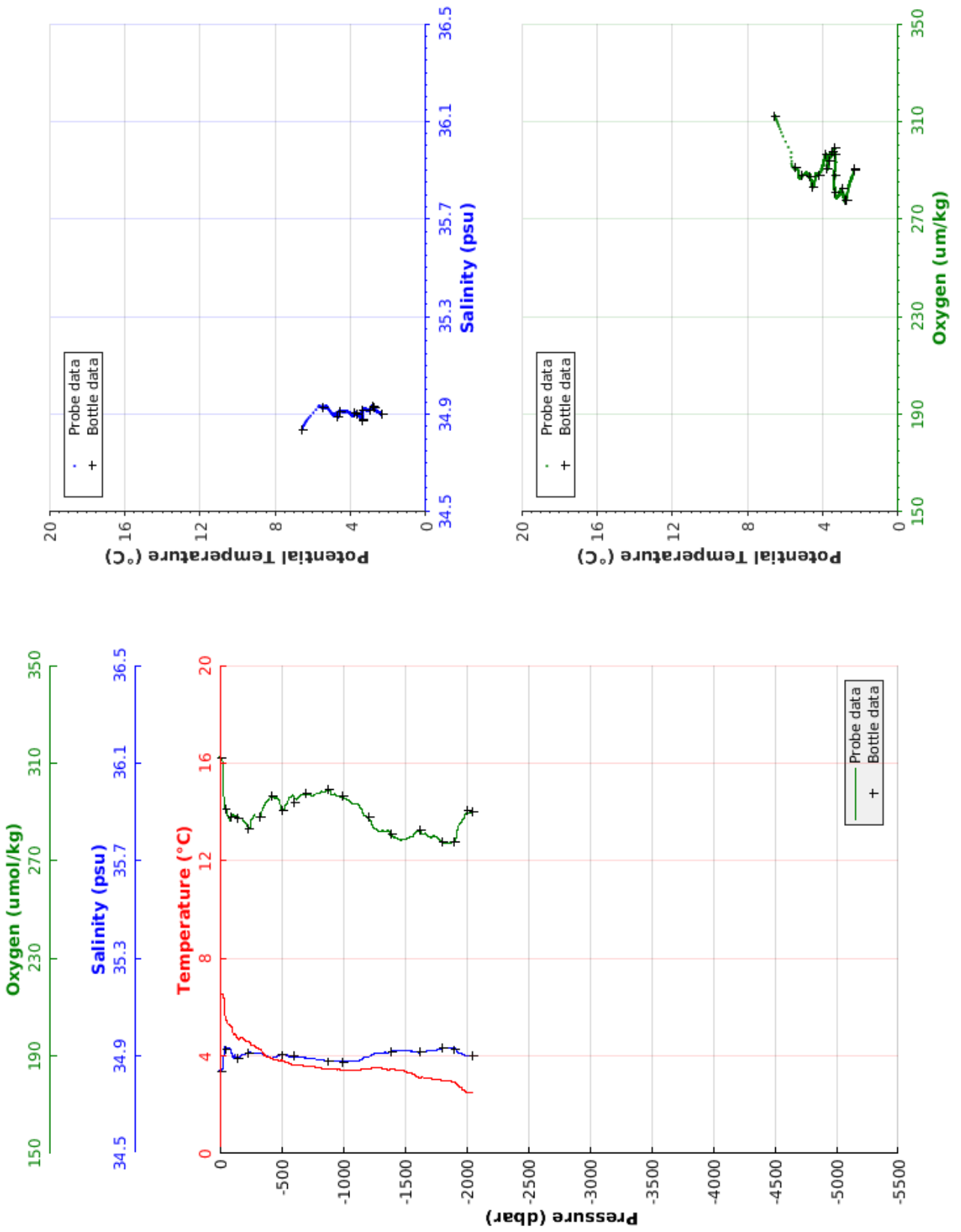
Station: 84


```

-----
| Cruise      : OVIDE 2018
| Station    : 85          Cast      : 1
| Date       : 05/07/2018   Ship     : N/O THALASSA
| Depth      : 2037 m      Organism : IFREMER
| Position   : N 59 46.35
|             W 041 17.81
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.553	34.844	312.5	6.553
10.0	6.553	34.844	312.3	6.552
20.0	6.553	34.844	312.2	6.551
30.0	6.409	34.865	309.4	6.406
40.0	5.668	34.931	293.7	5.665
50.0	5.473	34.926	291.1	5.469
100.0	5.071	34.910	287.8	5.063
150.0	4.680	34.887	288.0	4.669
200.0	4.662	34.908	286.1	4.647
250.0	4.511	34.914	283.6	4.492
300.0	4.336	34.912	287.8	4.314
350.0	4.088	34.907	290.6	4.063
400.0	3.945	34.897	295.0	3.917
450.0	3.857	34.897	295.4	3.825
500.0	3.823	34.908	291.7	3.787
550.0	3.733	34.902	293.5	3.694
600.0	3.635	34.893	296.9	3.592
650.0	3.618	34.895	296.3	3.572
700.0	3.587	34.893	297.3	3.538
750.0	3.564	34.891	296.5	3.510
800.0	3.516	34.886	297.6	3.459
850.0	3.479	34.882	298.2	3.418
900.0	3.455	34.879	298.7	3.391
950.0	3.443	34.879	296.8	3.375
1000.0	3.424	34.877	295.8	3.352
1050.0	3.419	34.878	294.7	3.343
1100.0	3.417	34.880	293.2	3.337
1150.0	3.443	34.887	291.0	3.359
1200.0	3.471	34.895	287.8	3.383
1250.0	3.521	34.908	283.8	3.427
1300.0	3.507	34.913	282.1	3.410
1350.0	3.457	34.914	282.0	3.356
1400.0	3.447	34.919	280.2	3.342
1450.0	3.416	34.923	278.8	3.307
1500.0	3.374	34.923	278.6	3.261
1550.0	3.285	34.919	279.8	3.168
1600.0	3.158	34.915	281.8	3.039
1650.0	3.114	34.918	281.0	2.991
1700.0	3.088	34.922	279.9	2.961
1750.0	3.028	34.923	279.9	2.898
1800.0	2.998	34.931	277.9	2.863
1850.0	2.983	34.932	277.3	2.844
1900.0	2.937	34.931	278.0	2.795
1950.0	2.711	34.911	285.0	2.567
2000.0	2.506	34.901	289.3	2.361
2050.0	2.506	34.901	289.8	2.356
2056.0	2.505	34.901	289.9	2.355



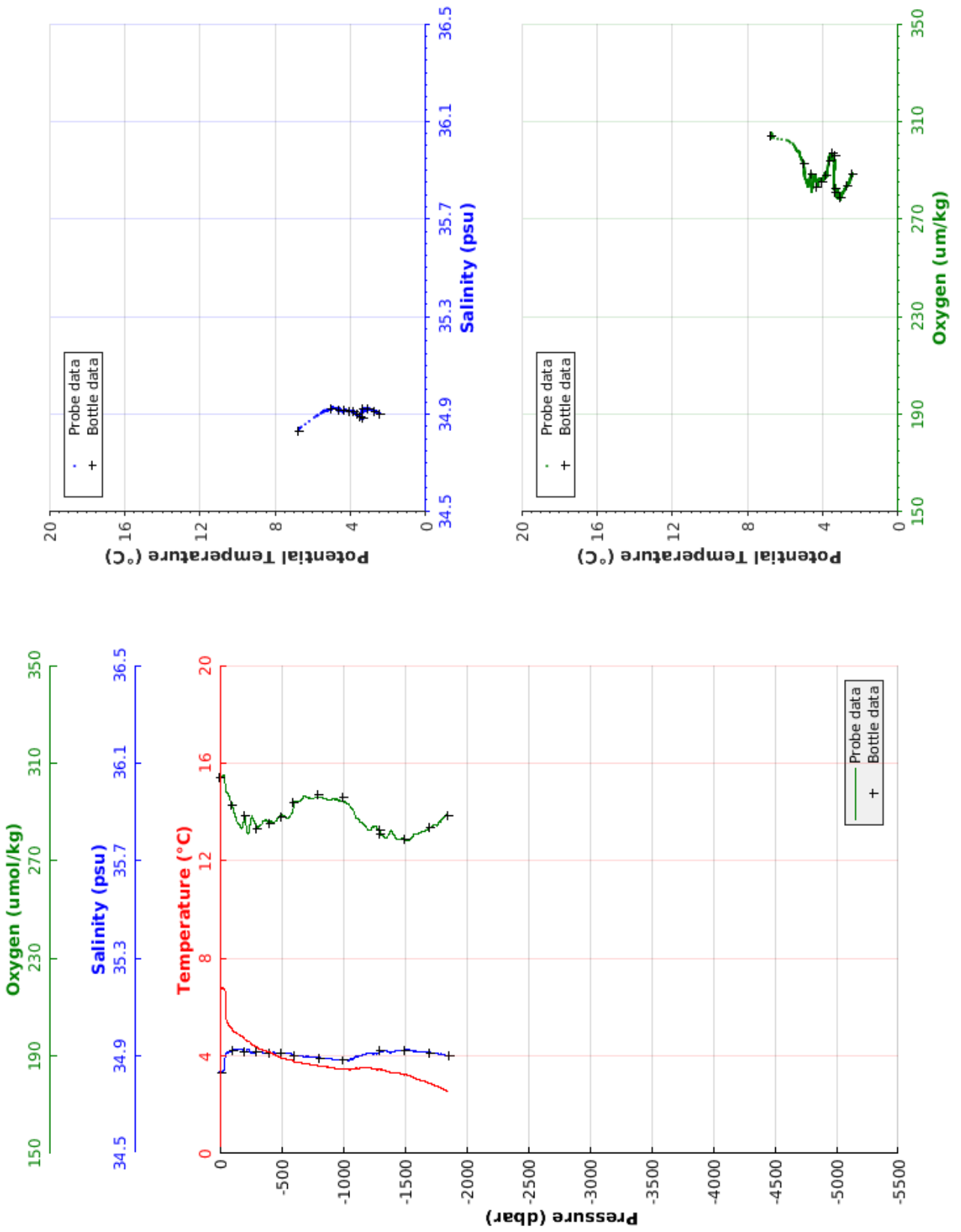
Station: 85

```

-----
| Cruise      : OVIDE 2018
| Station     : 86           Cast      : 1
| Date       : 06/07/2018   Ship     : N/O THALASSA
| Depth      : 1842 m       Organism : IFREMER
| Position   : N 59 47.61
|             W 041 43.83
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.773	34.838	305.1	6.773
10.0	6.773	34.838	303.8	6.773
20.0	6.778	34.838	304.4	6.776
30.0	6.761	34.840	304.9	6.758
40.0	6.726	34.841	304.7	6.722
50.0	5.593	34.905	300.9	5.588
100.0	5.095	34.920	294.0	5.087
150.0	4.876	34.926	285.5	4.865
200.0	4.726	34.920	286.6	4.711
250.0	4.536	34.917	284.5	4.518
300.0	4.362	34.917	284.4	4.340
350.0	4.235	34.914	285.5	4.209
400.0	4.168	34.915	286.1	4.139
450.0	4.030	34.913	286.0	3.997
500.0	3.914	34.910	288.7	3.878
550.0	3.857	34.911	287.6	3.817
600.0	3.786	34.905	291.0	3.743
650.0	3.717	34.901	294.4	3.671
700.0	3.670	34.897	296.4	3.620
750.0	3.640	34.897	295.5	3.587
800.0	3.597	34.893	296.1	3.540
850.0	3.560	34.891	295.5	3.499
900.0	3.526	34.888	294.8	3.462
950.0	3.489	34.884	295.3	3.420
1000.0	3.464	34.883	294.2	3.392
1050.0	3.444	34.883	293.0	3.368
1100.0	3.499	34.895	288.8	3.418
1150.0	3.505	34.903	285.7	3.420
1200.0	3.504	34.910	283.1	3.415
1250.0	3.469	34.909	283.9	3.376
1300.0	3.441	34.914	281.9	3.345
1350.0	3.384	34.921	279.3	3.284
1400.0	3.300	34.916	281.7	3.197
1450.0	3.291	34.923	278.8	3.183
1500.0	3.228	34.922	279.4	3.116
1550.0	3.165	34.924	278.9	3.050
1600.0	3.032	34.918	281.1	2.915
1650.0	2.966	34.917	282.0	2.845
1700.0	2.872	34.913	283.3	2.748
1750.0	2.768	34.911	284.9	2.641
1800.0	2.665	34.906	286.3	2.535
1850.0	2.575	34.902	288.7	2.442
1857.0	2.576	34.902	288.8	2.442



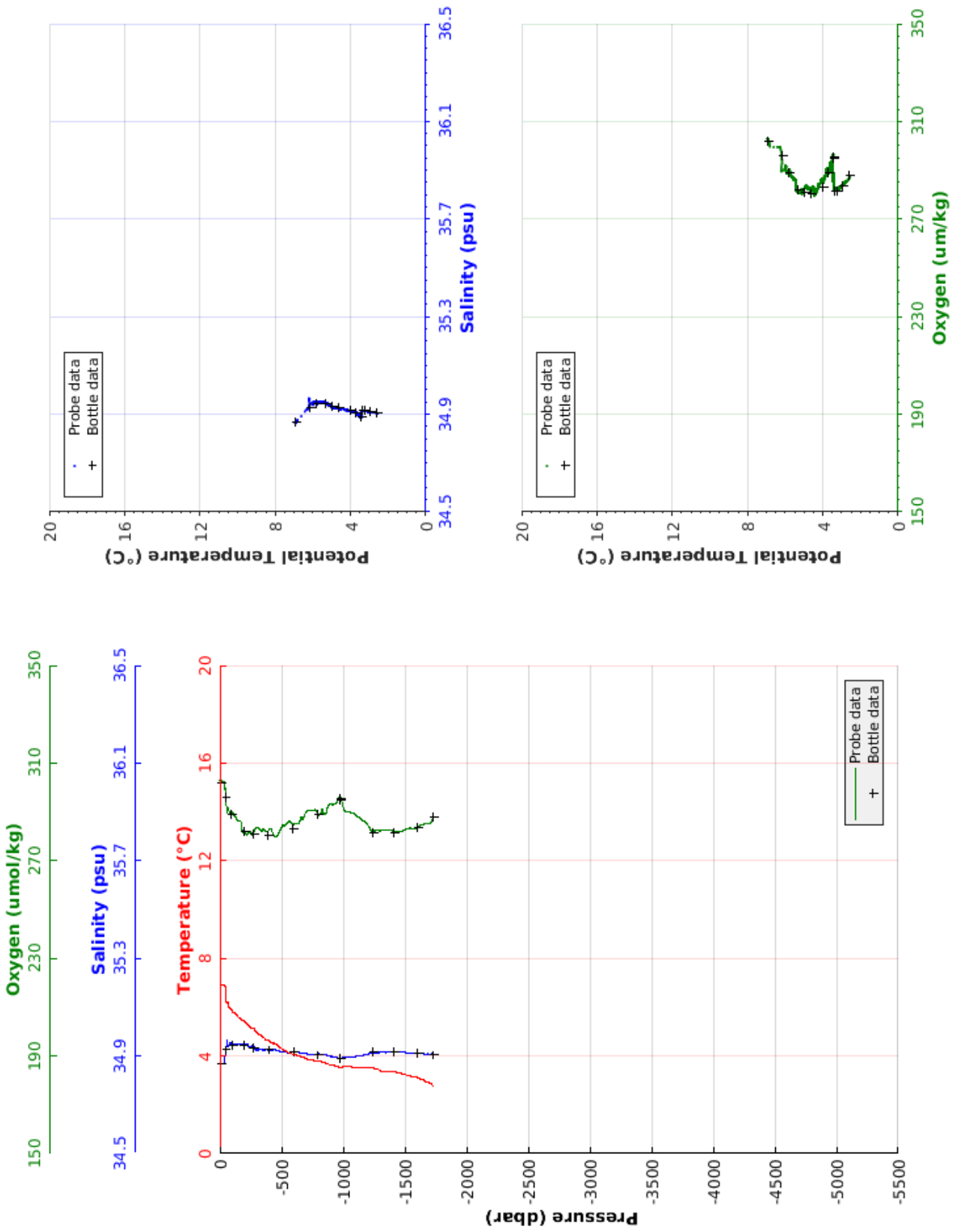
Station: 86

```

-----
| Cruise      : OVIDE 2018
| Station    : 87          Cast      : 1
| Date       : 06/07/2018   Ship       : N/O THALASSA
| Depth      : 1719 m      Organism  : IFREMER
| Position   : N 59 47.90
|             W 041 59.34
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.923	34.867	302.9	6.923
10.0	6.924	34.867	302.8	6.923
20.0	6.923	34.867	302.7	6.921
30.0	6.922	34.867	302.4	6.919
40.0	6.902	34.868	302.1	6.899
50.0	6.270	34.923	299.3	6.266
100.0	5.848	34.946	289.8	5.840
150.0	5.588	34.948	286.7	5.575
200.0	5.398	34.949	281.3	5.382
250.0	5.158	34.938	282.0	5.138
300.0	4.948	34.926	283.5	4.924
350.0	4.779	34.926	282.4	4.751
400.0	4.612	34.924	282.3	4.582
450.0	4.483	34.925	279.8	4.449
500.0	4.295	34.919	283.0	4.257
550.0	4.149	34.914	285.3	4.108
600.0	4.069	34.916	284.8	4.024
650.0	4.001	34.914	285.5	3.953
700.0	3.878	34.909	289.5	3.827
750.0	3.829	34.908	290.7	3.774
800.0	3.791	34.909	288.7	3.732
850.0	3.723	34.906	289.2	3.661
900.0	3.643	34.898	293.3	3.577
950.0	3.585	34.894	293.6	3.516
1000.0	3.561	34.894	292.7	3.488
1050.0	3.551	34.896	289.8	3.474
1100.0	3.541	34.897	289.0	3.460
1150.0	3.533	34.902	286.9	3.448
1200.0	3.525	34.907	285.1	3.436
1250.0	3.498	34.914	282.1	3.406
1300.0	3.413	34.915	282.2	3.317
1350.0	3.371	34.914	282.4	3.270
1400.0	3.356	34.914	282.3	3.252
1450.0	3.312	34.915	281.9	3.204
1500.0	3.254	34.914	282.3	3.142
1550.0	3.165	34.912	283.3	3.050
1600.0	3.114	34.912	283.3	2.995
1650.0	3.011	34.909	284.5	2.890
1700.0	2.897	34.908	285.3	2.772
1730.0	2.707	34.905	287.5	2.583



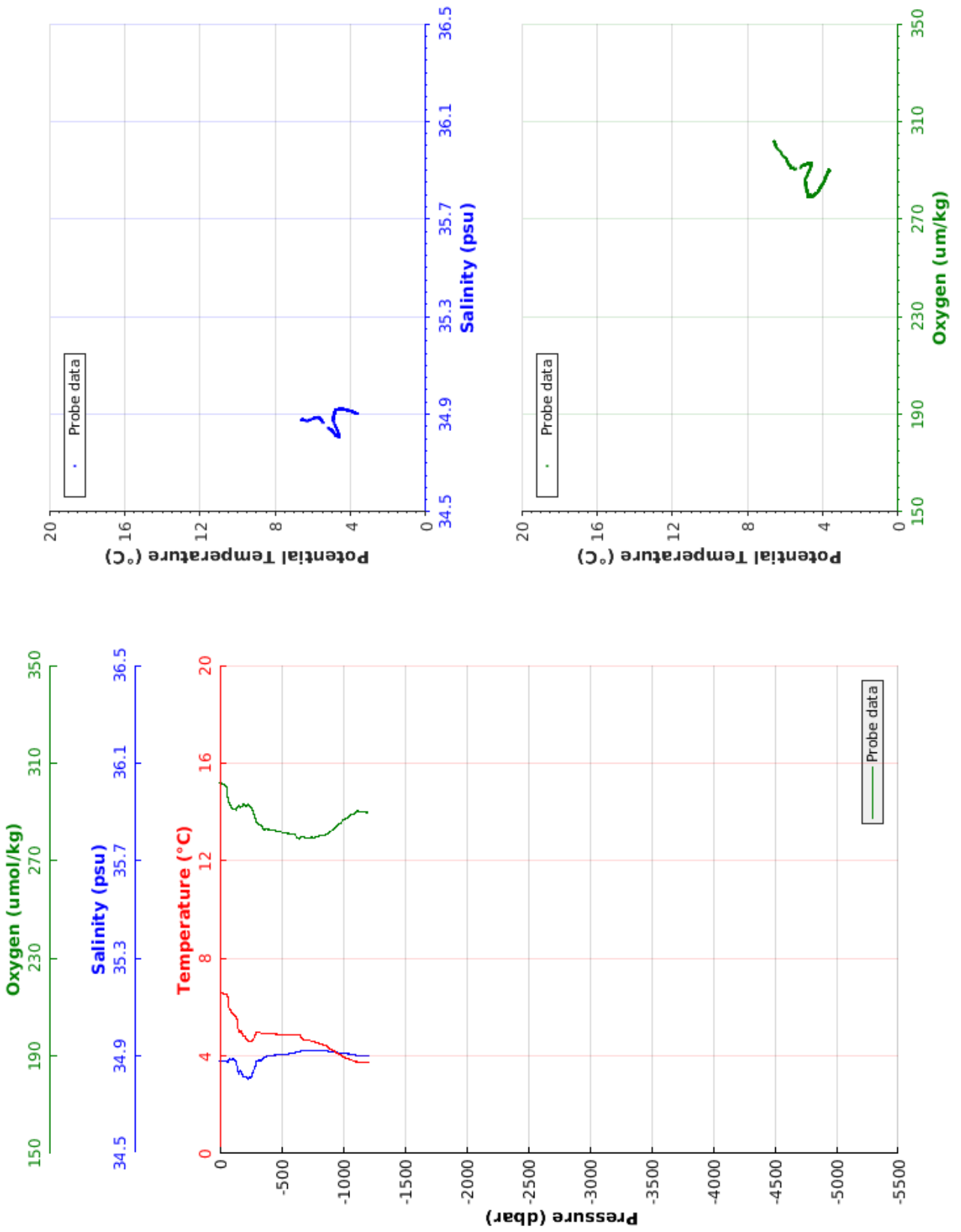
Station: 87

```

-----
| Cruise      : OVIDE 2018
| Station     : 88           Cast      : 1
| Date        : 06/07/2018   Ship       : N/O THALASSA
| Depth       : 1213 m       Organism  : IFREMER
| Position    : N 59 48.55
|              W 042 14.04
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	6.583	34.877	301.8	6.583
10.0	6.576	34.877	301.8	6.575
20.0	6.566	34.877	301.7	6.564
30.0	6.560	34.878	301.4	6.557
40.0	6.544	34.878	301.2	6.541
50.0	6.537	34.879	300.9	6.533
100.0	5.752	34.886	291.9	5.744
150.0	5.091	34.838	291.8	5.079
200.0	4.794	34.814	293.1	4.778
250.0	4.612	34.812	292.2	4.593
300.0	4.960	34.878	285.8	4.937
350.0	4.935	34.886	284.1	4.907
400.0	4.904	34.900	282.8	4.873
450.0	4.891	34.904	282.3	4.855
500.0	4.885	34.905	281.8	4.845
550.0	4.881	34.907	281.3	4.837
600.0	4.867	34.909	281.1	4.819
650.0	4.848	34.917	279.0	4.796
700.0	4.643	34.922	279.2	4.587
750.0	4.595	34.922	279.6	4.535
800.0	4.518	34.921	280.0	4.454
850.0	4.443	34.921	280.4	4.376
900.0	4.283	34.918	282.0	4.213
950.0	4.126	34.915	284.0	4.052
1000.0	3.937	34.910	286.7	3.861
1050.0	3.875	34.908	288.0	3.795
1100.0	3.797	34.905	289.6	3.714
1150.0	3.756	34.903	290.1	3.669
1200.0	3.728	34.902	289.8	3.637
1217.0	3.715	34.902	289.9	3.623



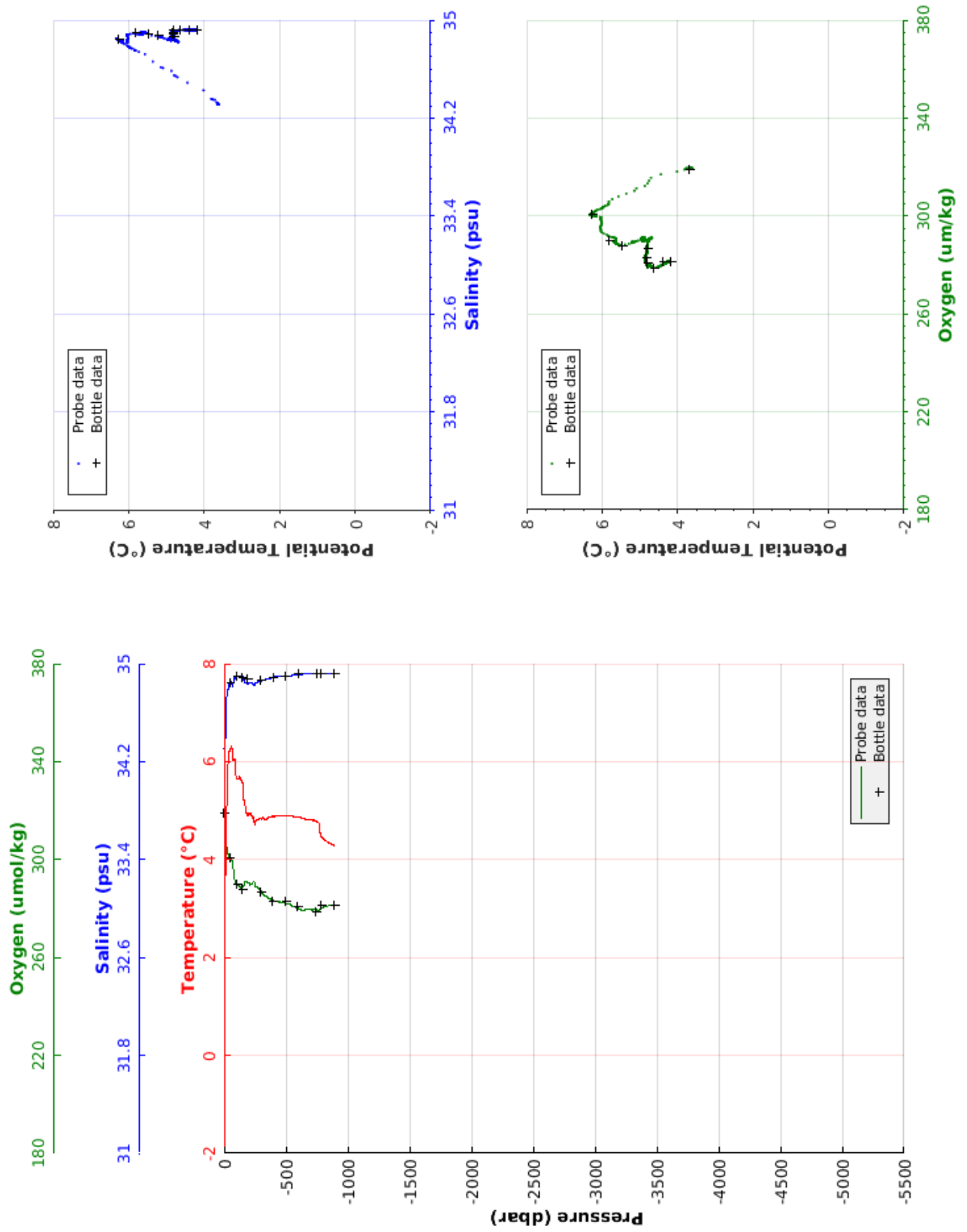
Station: 88


```

-----
| Cruise      : OVIDE 2018
| Station     : 89           Cast      : 1
| Date        : 06/07/2018   Ship       : N/O THALASSA
| Depth       : 893 m        Organism  : IFREMER
| Position    : N 59 48.93
|              W 042 16.58
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	3.626	34.312	319.6	3.626
10.0	3.670	34.327	319.6	3.669
20.0	4.869	34.586	312.3	4.868
30.0	5.915	34.768	304.2	5.912
40.0	6.173	34.816	302.1	6.170
50.0	6.261	34.834	301.1	6.257
100.0	5.641	34.883	290.7	5.633
150.0	5.569	34.898	288.0	5.557
200.0	4.945	34.844	290.4	4.929
250.0	4.730	34.833	290.8	4.711
300.0	4.828	34.858	287.4	4.805
350.0	4.846	34.877	284.7	4.819
400.0	4.880	34.886	283.7	4.848
450.0	4.888	34.893	282.6	4.853
500.0	4.890	34.896	282.3	4.850
550.0	4.893	34.904	281.4	4.849
600.0	4.864	34.911	280.2	4.816
650.0	4.848	34.916	279.1	4.796
700.0	4.805	34.916	279.7	4.749
750.0	4.777	34.916	279.6	4.716
800.0	4.422	34.920	280.4	4.359
850.0	4.330	34.918	281.3	4.264
897.0	4.265	34.917	281.8	4.195



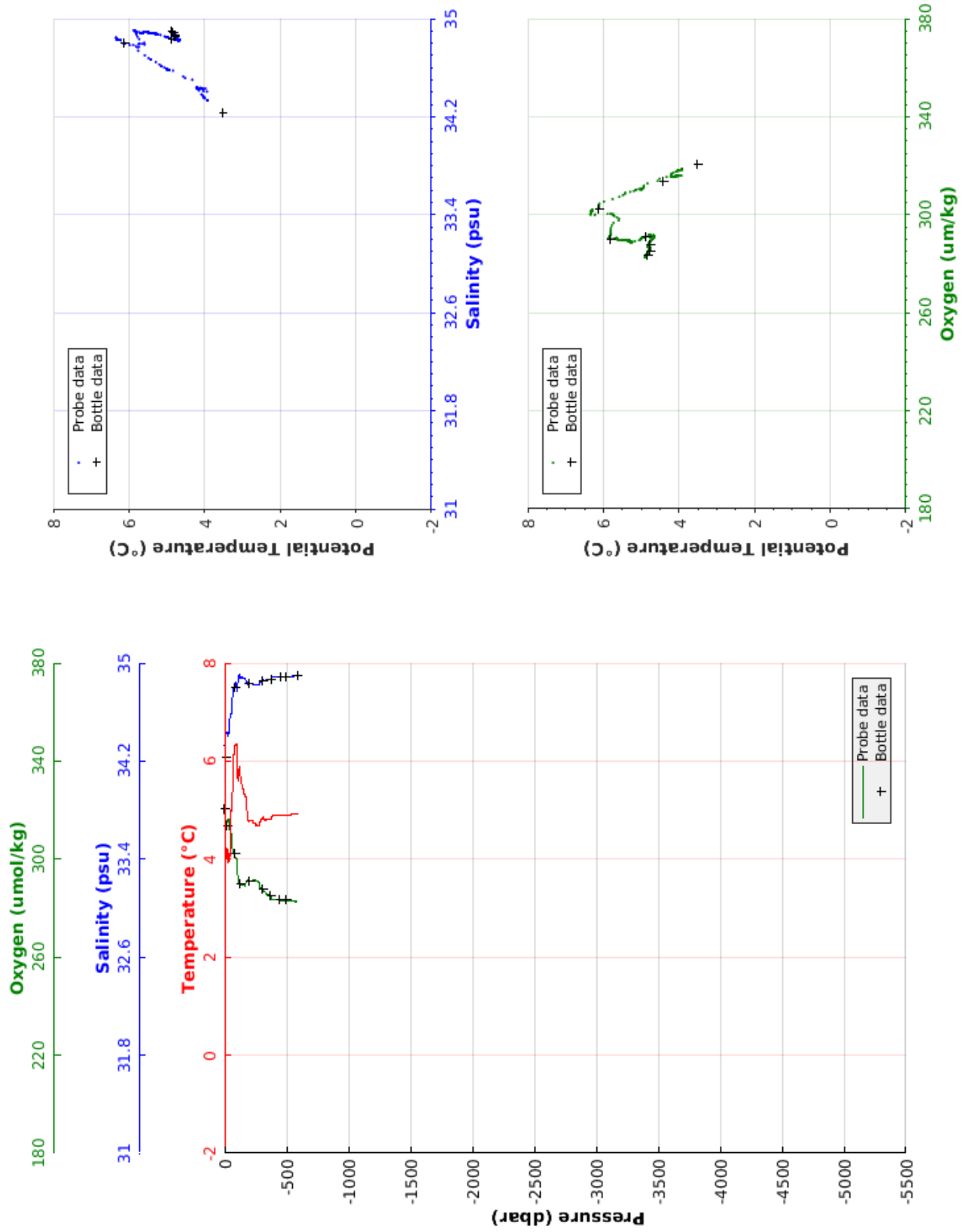
Station: 89

```

-----
| Cruise      : OVIDE 2018
| Station     : 90           Cast      : 1
| Date        : 06/07/2018   Ship       : N/O THALASSA
| Depth       : 595 m        Organism  : IFREMER
| Position    : N 59 49.07
|              W 042 18.63
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	3.928	34.332	318.6	3.928
10.0	3.996	34.351	318.0	3.995
20.0	4.217	34.438	315.6	4.216
30.0	4.032	34.407	315.7	4.030
40.0	4.063	34.426	315.8	4.061
50.0	4.948	34.583	310.9	4.945
100.0	5.896	34.785	300.3	5.888
150.0	5.412	34.880	289.6	5.400
200.0	4.787	34.830	291.3	4.772
250.0	4.698	34.821	291.5	4.679
300.0	4.828	34.856	287.9	4.804
350.0	4.806	34.867	285.7	4.779
400.0	4.890	34.890	283.5	4.858
450.0	4.905	34.892	283.2	4.869
500.0	4.904	34.892	283.1	4.864
550.0	4.924	34.893	282.8	4.879
592.0	4.937	34.895	282.6	4.889



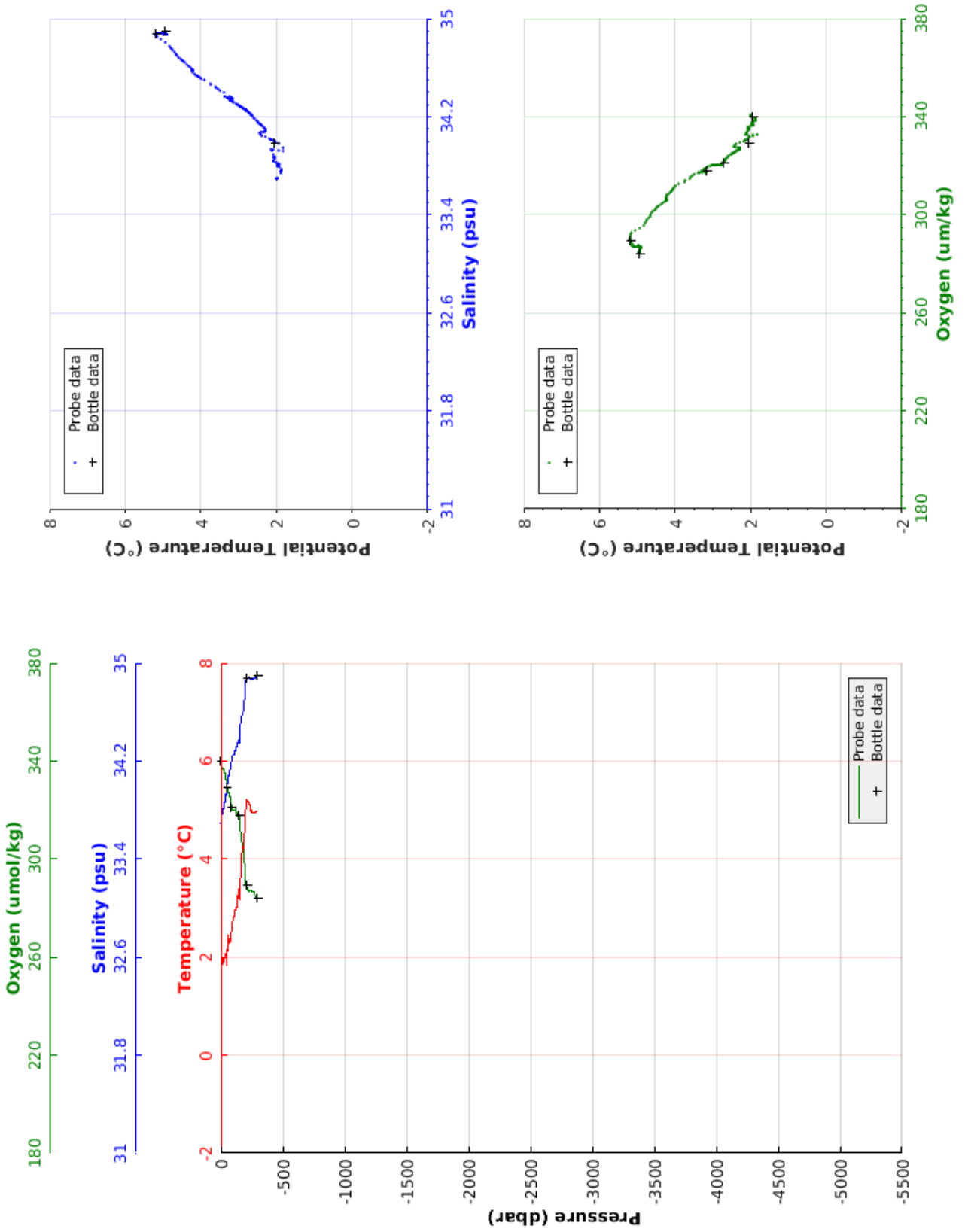
Station: 90

```

-----
| Cruise      : OVIDE 2018
| Station    : 91           Cast      : 1
| Date       : 06/07/2018   Ship     : N/O THALASSA
| Depth      : 306 m       Organism : IFREMER
| Position   : N 59 49.32
|             W 042 23.80
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	1.993	33.694	340.6	1.993
10.0	1.883	33.760	339.0	1.882
20.0	1.984	33.804	336.9	1.983
30.0	1.931	33.813	336.6	1.929
40.0	2.053	33.862	334.8	2.051
50.0	1.939	33.983	332.3	1.936
100.0	2.785	34.248	320.5	2.779
150.0	3.175	34.348	317.7	3.165
200.0	4.810	34.761	296.6	4.794
250.0	4.990	34.873	287.1	4.970
299.0	4.978	34.894	284.2	4.954



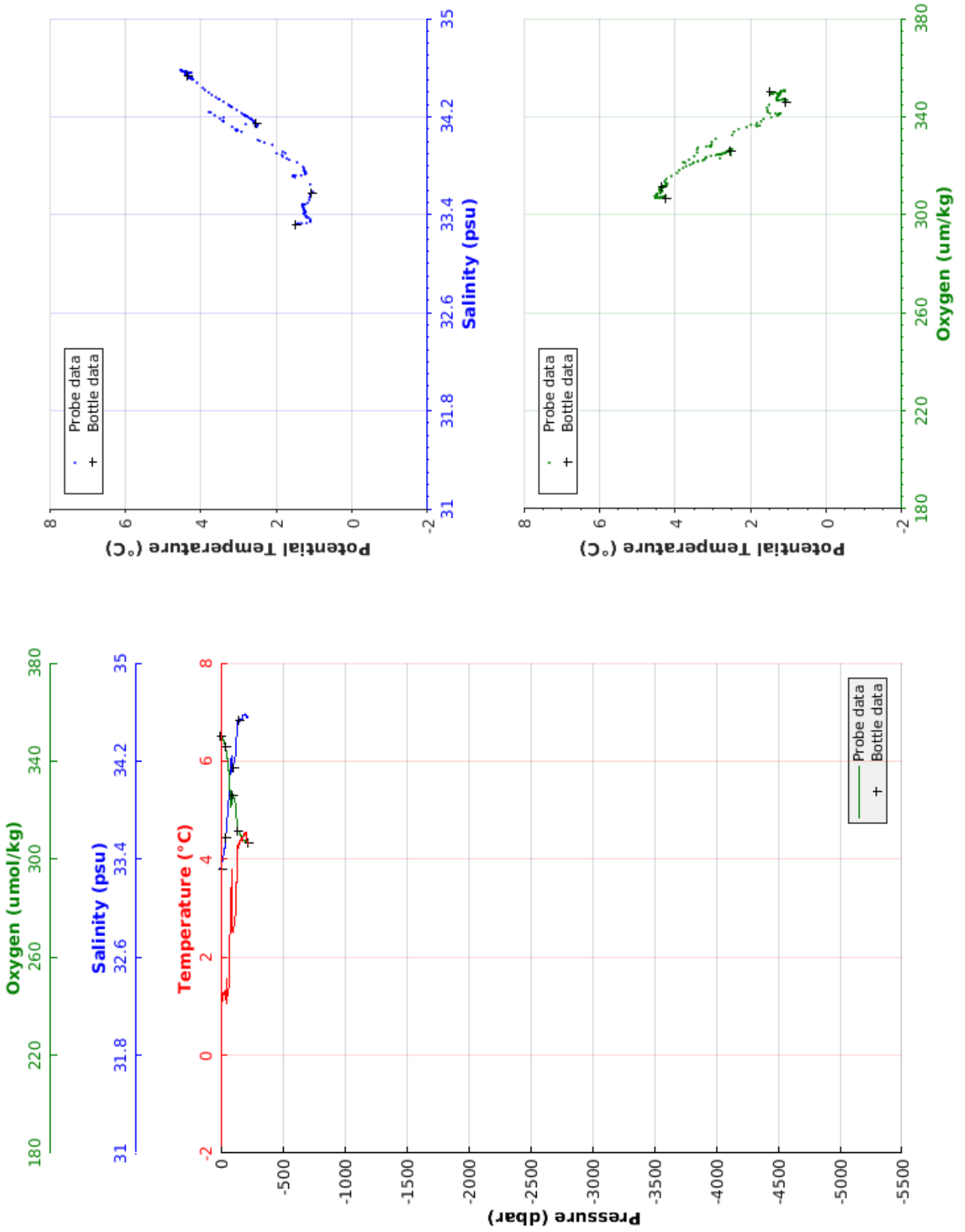
Station: 91

```

-----
| Cruise      : OVIDE 2018
| Station     : 92           Cast      : 1
| Date       : 06/07/2018   Ship     : N/O THALASSA
| Depth      : 230 m       Organism : IFREMER
| Position   : N 59 49.82
|             W 042 30.73
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	1.483	33.326	349.9	1.483
10.0	1.107	33.343	350.4	1.107
20.0	1.253	33.416	349.3	1.252
30.0	1.296	33.464	347.9	1.295
40.0	1.245	33.485	346.8	1.243
50.0	1.561	33.715	342.6	1.559
100.0	2.512	34.136	326.8	2.506
150.0	4.318	34.521	311.4	4.307
200.0	4.545	34.580	307.5	4.530
222.0	4.268	34.559	307.6	4.252



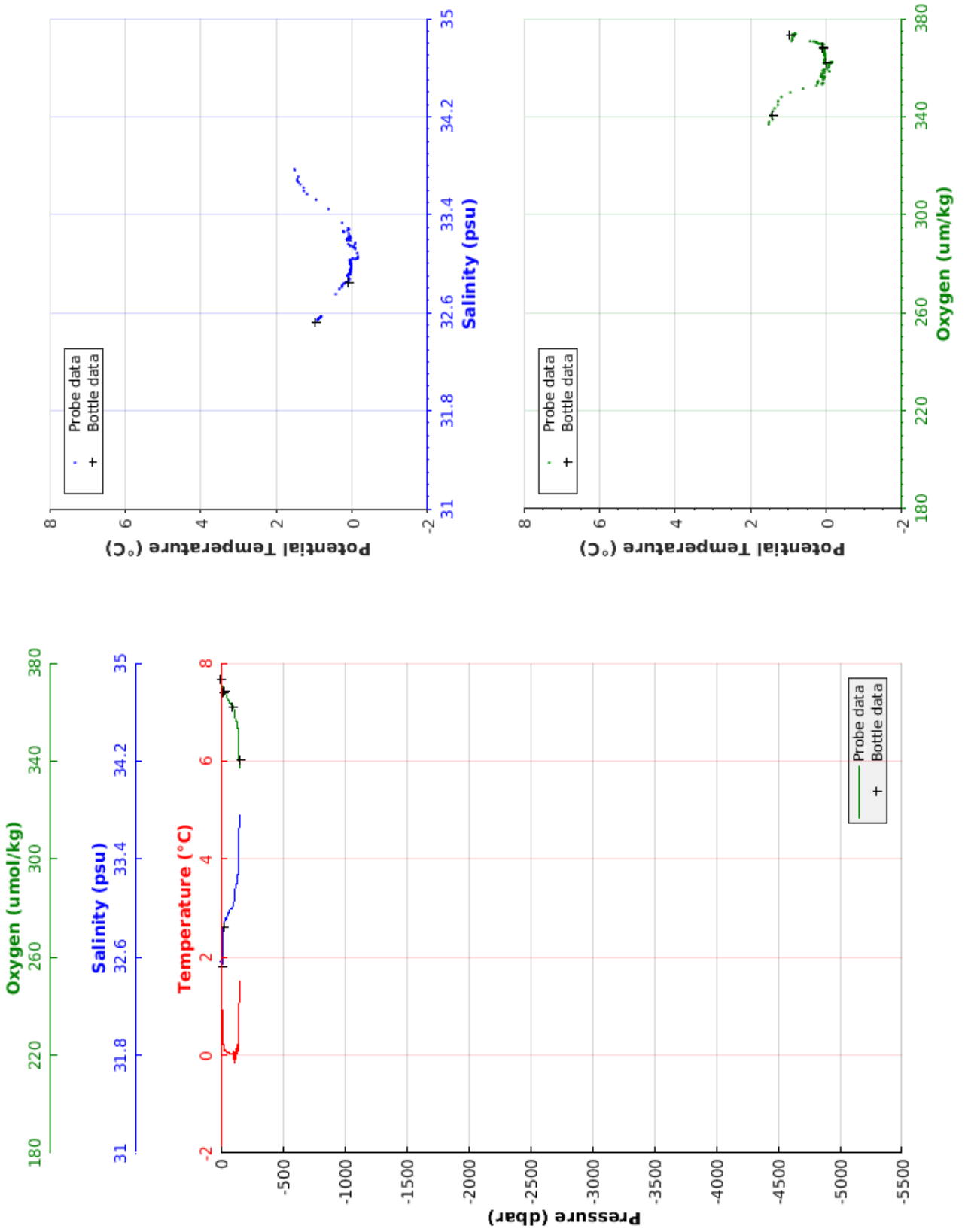
Station: 92


```

-----
| Cruise      : OVIDE 2018
| Station    : 93          Cast      : 1
| Date       : 06/07/2018   Ship     : N/O THALASSA
| Depth      : 166 m       Organism : IFREMER
| Position   : N 59 54.77
|             W 043 4.39
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	0.831	32.565	373.8	0.831
10.0	0.858	32.559	373.4	0.858
20.0	0.247	32.830	370.2	0.246
30.0	0.079	32.872	369.5	0.078
40.0	0.103	32.913	367.6	0.102
50.0	0.050	32.917	366.9	0.049
100.0	0.053	33.015	362.1	0.050
150.0	1.284	33.595	346.3	1.277
158.0	1.538	33.773	336.8	1.530



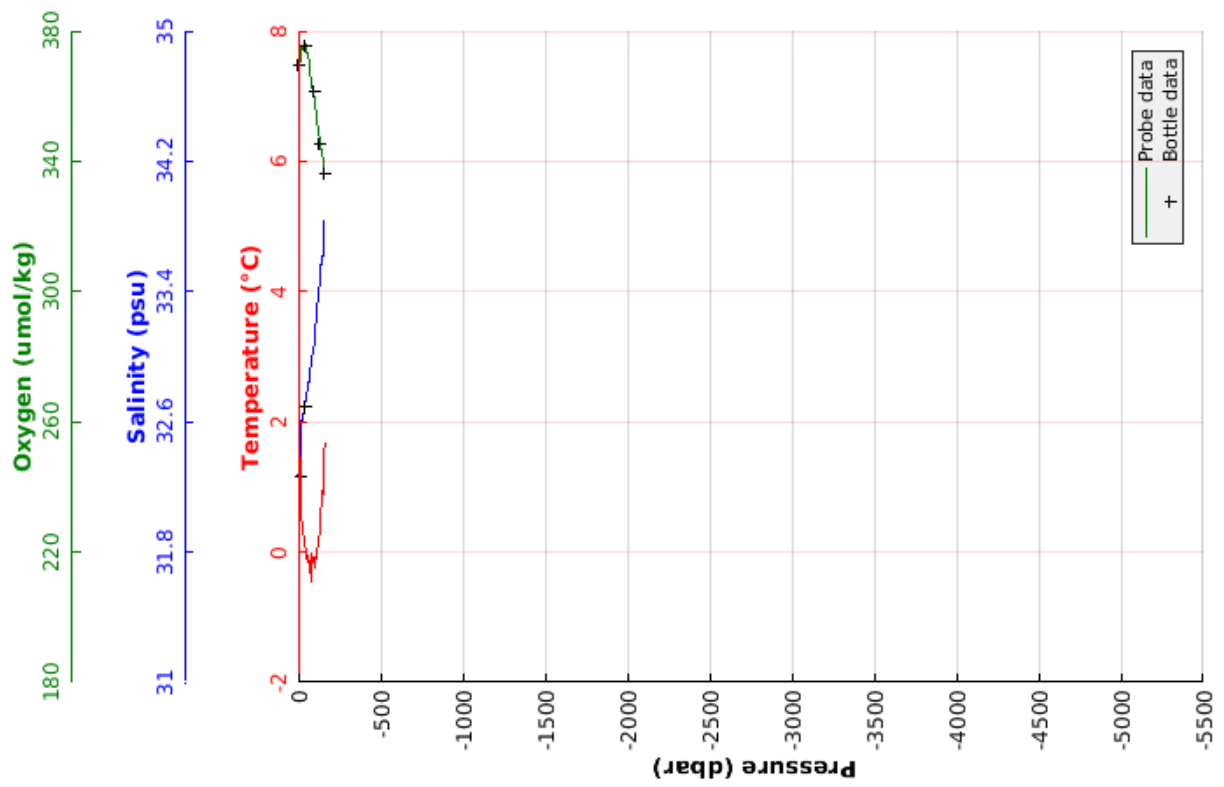
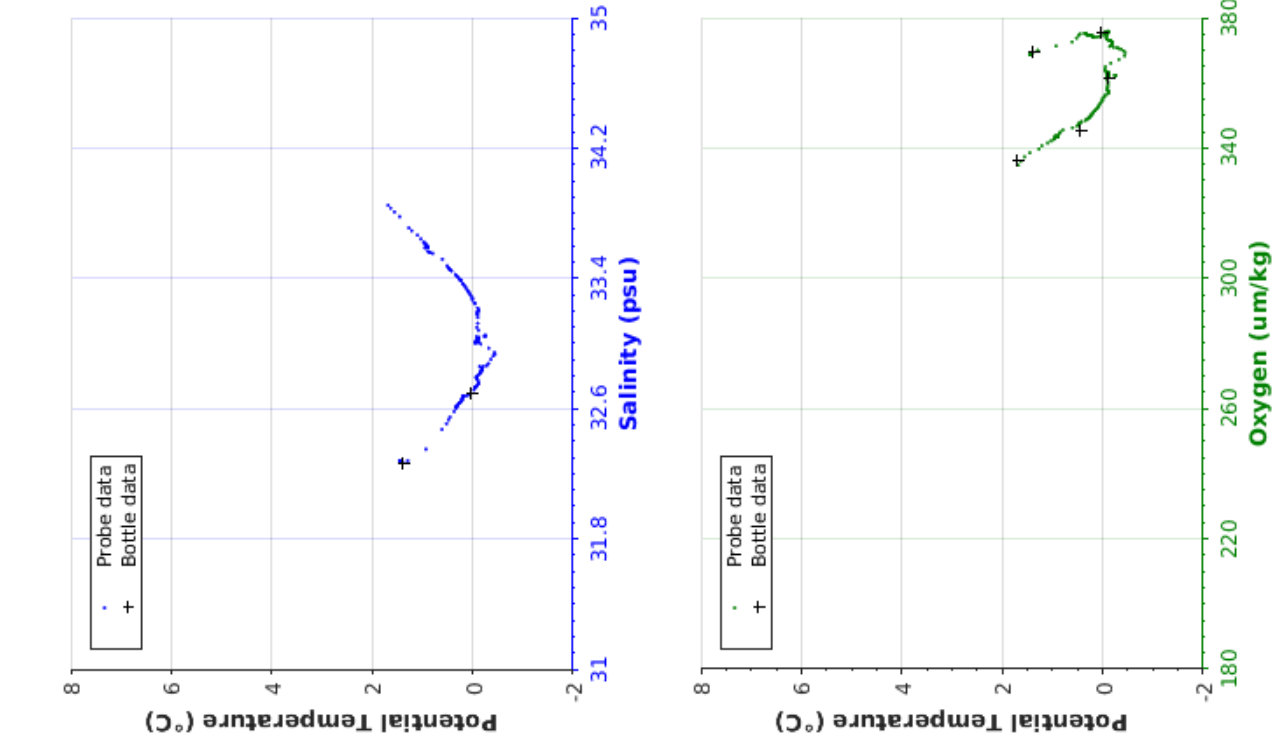
Station: 93

```

-----
| Cruise      : OVIDE 2018
| Station     : 94           Cast      : 1
| Date        : 06/07/2018   Ship       : N/O THALASSA
| Depth       : 169 m        Organism  : IFREMER
| Position    : N 59 53.76
|              W 042 57.70
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	1.451	32.274	369.1	1.451
10.0	1.455	32.273	368.9	1.454
20.0	0.522	32.507	373.7	0.522
30.0	0.281	32.629	374.6	0.280
40.0	0.185	32.680	374.0	0.183
50.0	-0.065	32.736	375.8	-0.067
100.0	-0.113	33.081	361.7	-0.116
150.0	0.934	33.607	343.5	0.928
161.0	1.689	33.848	334.7	1.681



Station: 94

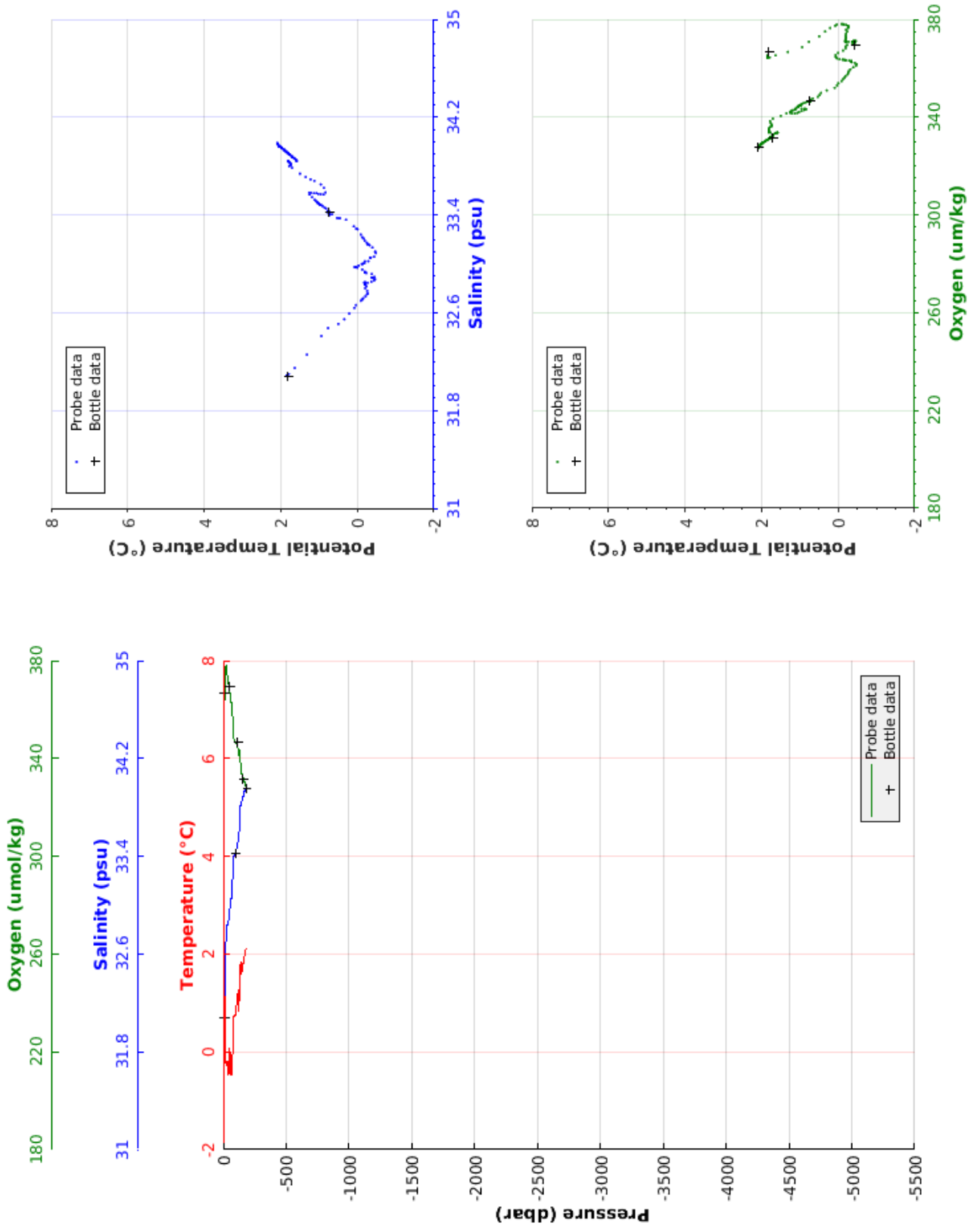


```

-----
| Cruise      : OVIDE 2018
| Station     : 95           Cast      : 1
| Date        : 07/07/2018   Ship       : N/O THALASSA
| Depth       : 189 m        Organism  : IFREMER
| Position    : N 59 52.79
|              W 042 51.03
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	1.852	32.081	365.0	1.852
10.0	1.313	32.257	366.6	1.313
20.0	-0.152	32.717	377.9	-0.153
30.0	-0.198	32.838	372.3	-0.199
40.0	-0.413	32.884	371.2	-0.414
50.0	0.066	32.973	365.4	0.064
100.0	0.757	33.429	346.4	0.753
150.0	1.707	33.875	332.7	1.699
182.0	2.085	33.977	327.5	2.076



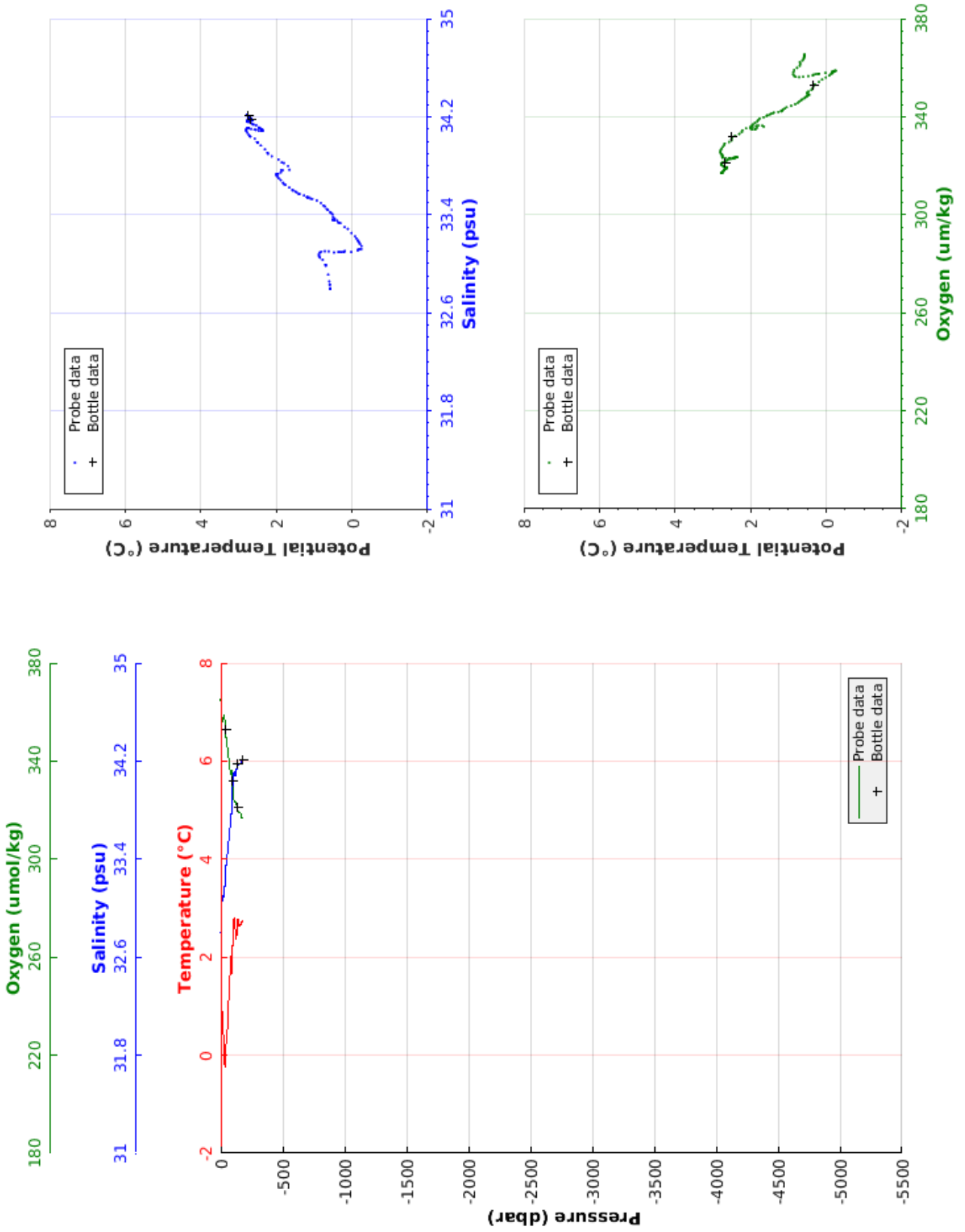
Station: 95

```

-----
| Cruise      : OVIDE 2018
| Station    : 96           Cast      : 1
| Date       : 07/07/2018   Ship     : N/O THALASSA
| Depth      : 186 m       Organism : IFREMER
| Position   : N 59 51.80
|             W 042 44.31
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	0.576	32.799	365.2	0.576
10.0	0.698	32.989	362.2	0.697
20.0	0.616	33.101	356.2	0.615
30.0	-0.167	33.117	358.5	-0.168
40.0	0.012	33.251	356.0	0.011
50.0	0.465	33.354	349.1	0.463
100.0	2.513	33.991	330.9	2.507
150.0	2.662	34.173	319.1	2.653
179.0	2.763	34.207	317.1	2.753



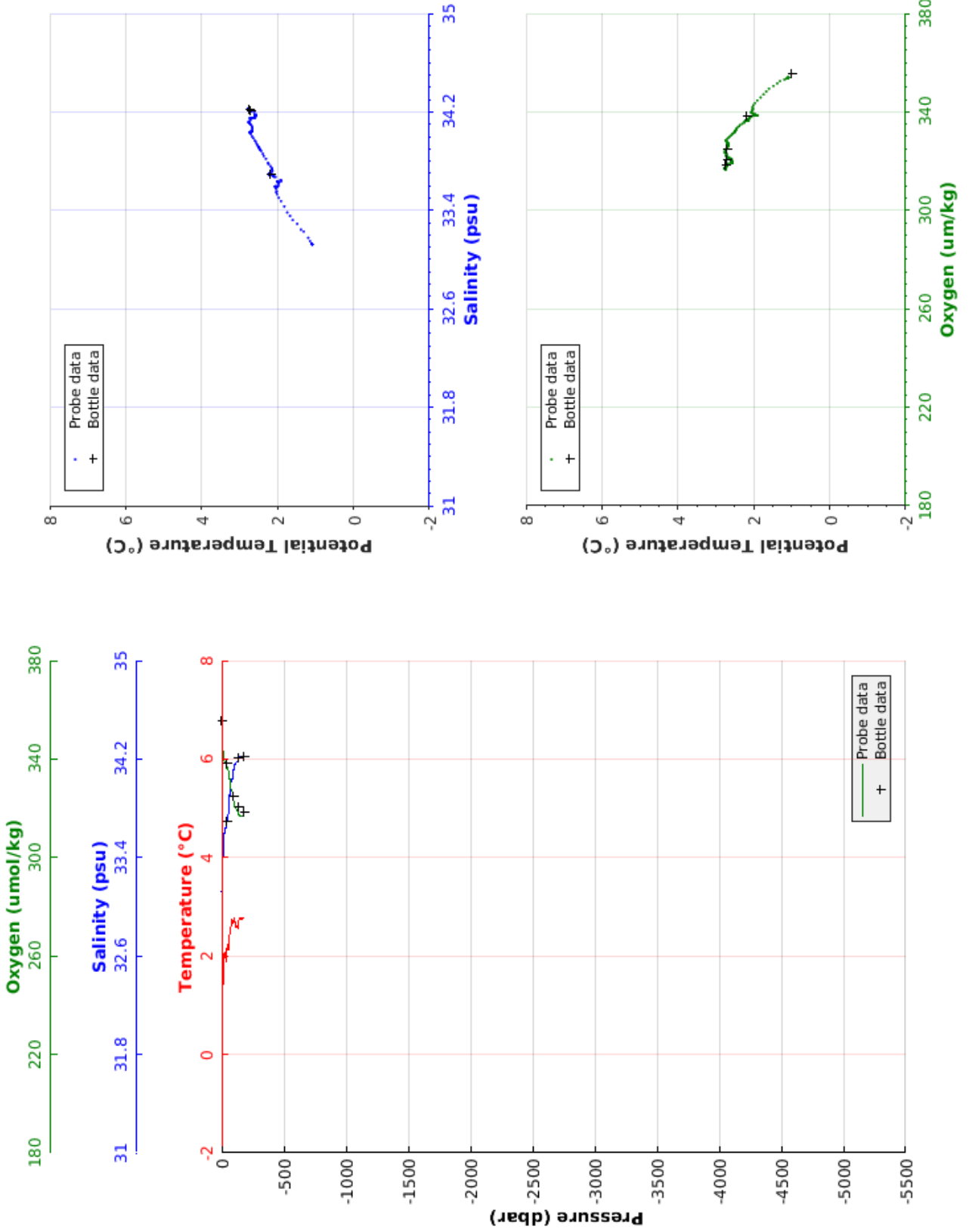
Station: 96


```

-----
| Cruise      : OVIDE 2018
| Station    : 97           Cast      : 1
| Date       : 07/07/2018   Ship     : N/O THALASSA
| Depth      : 182 m       Organism : IFREMER
| Position   : N 59 51.17
|             W 042 39.93
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	1.086	33.124	354.0	1.086
10.0	1.383	33.243	351.6	1.383
20.0	2.021	33.554	341.3	2.020
30.0	1.986	33.623	338.8	1.984
40.0	2.113	33.677	337.6	2.111
50.0	2.230	33.694	336.3	2.227
100.0	2.765	34.116	323.7	2.759
150.0	2.764	34.222	317.0	2.755
181.0	2.775	34.225	316.9	2.764



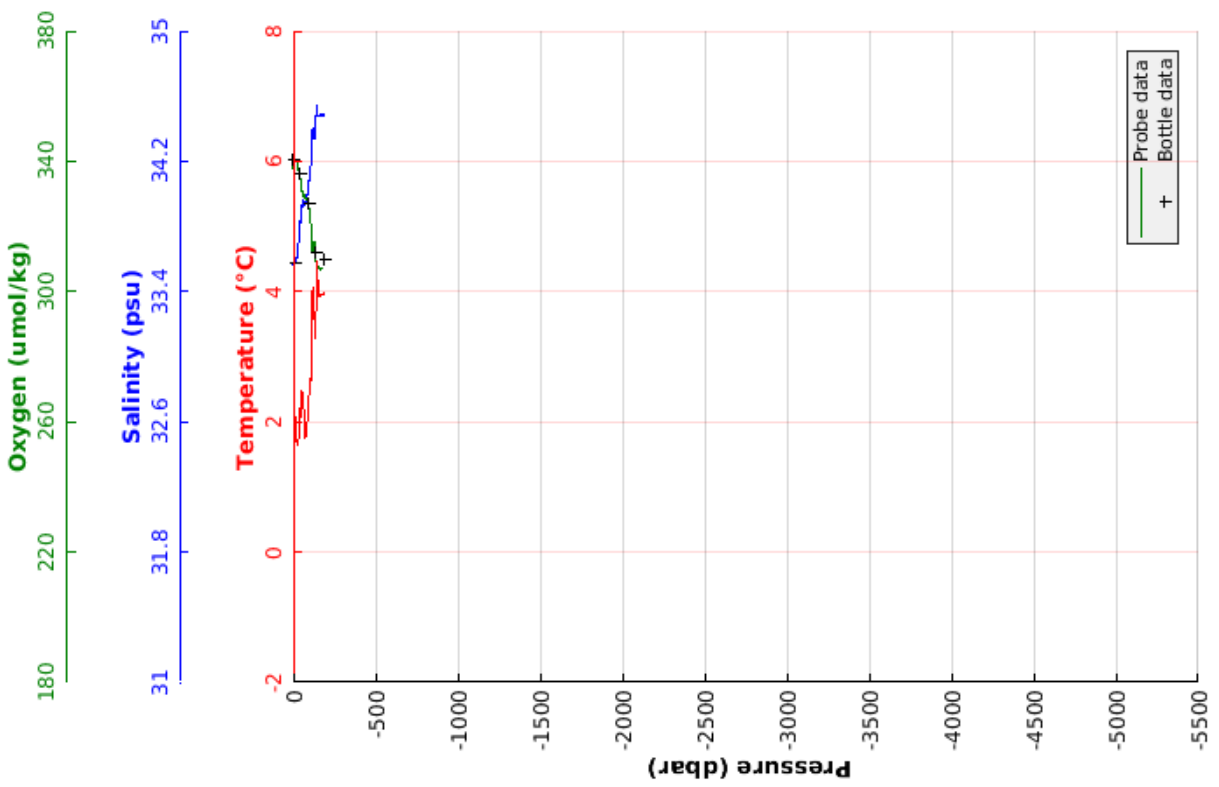
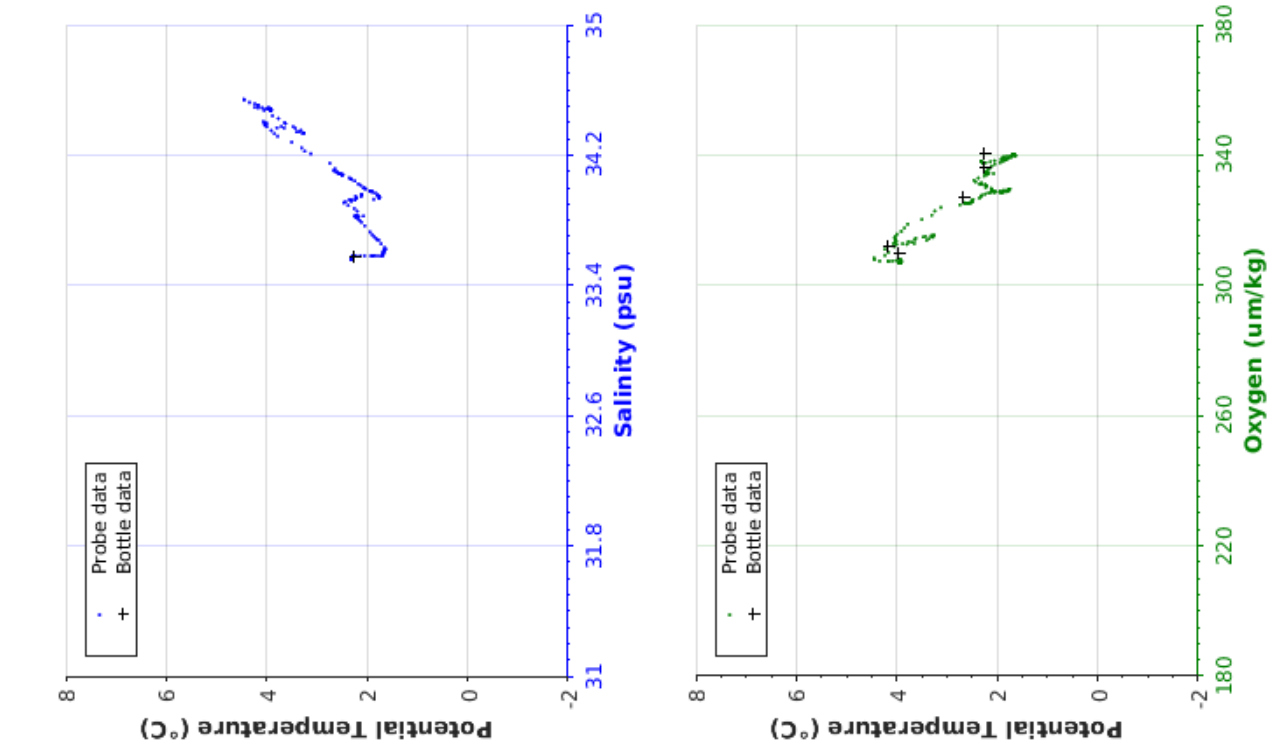
Station: 97

```

-----
| Cruise      : OVIDE 2018
| Station     : 98           Cast      : 1
| Date        : 07/07/2018   Ship       : N/O THALASSA
| Depth       : 201 m        Organism  : IFREMER
| Position    : N 59 50.52
|              W 042 35.55
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	2.309	33.559	338.1	2.309
10.0	2.136	33.580	337.9	2.135
20.0	1.693	33.586	340.1	1.693
30.0	1.654	33.631	339.6	1.653
40.0	2.150	33.799	336.1	2.148
50.0	2.201	33.855	334.0	2.199
100.0	2.532	34.084	325.5	2.526
150.0	4.101	34.490	307.5	4.090
192.0	3.979	34.489	306.9	3.966



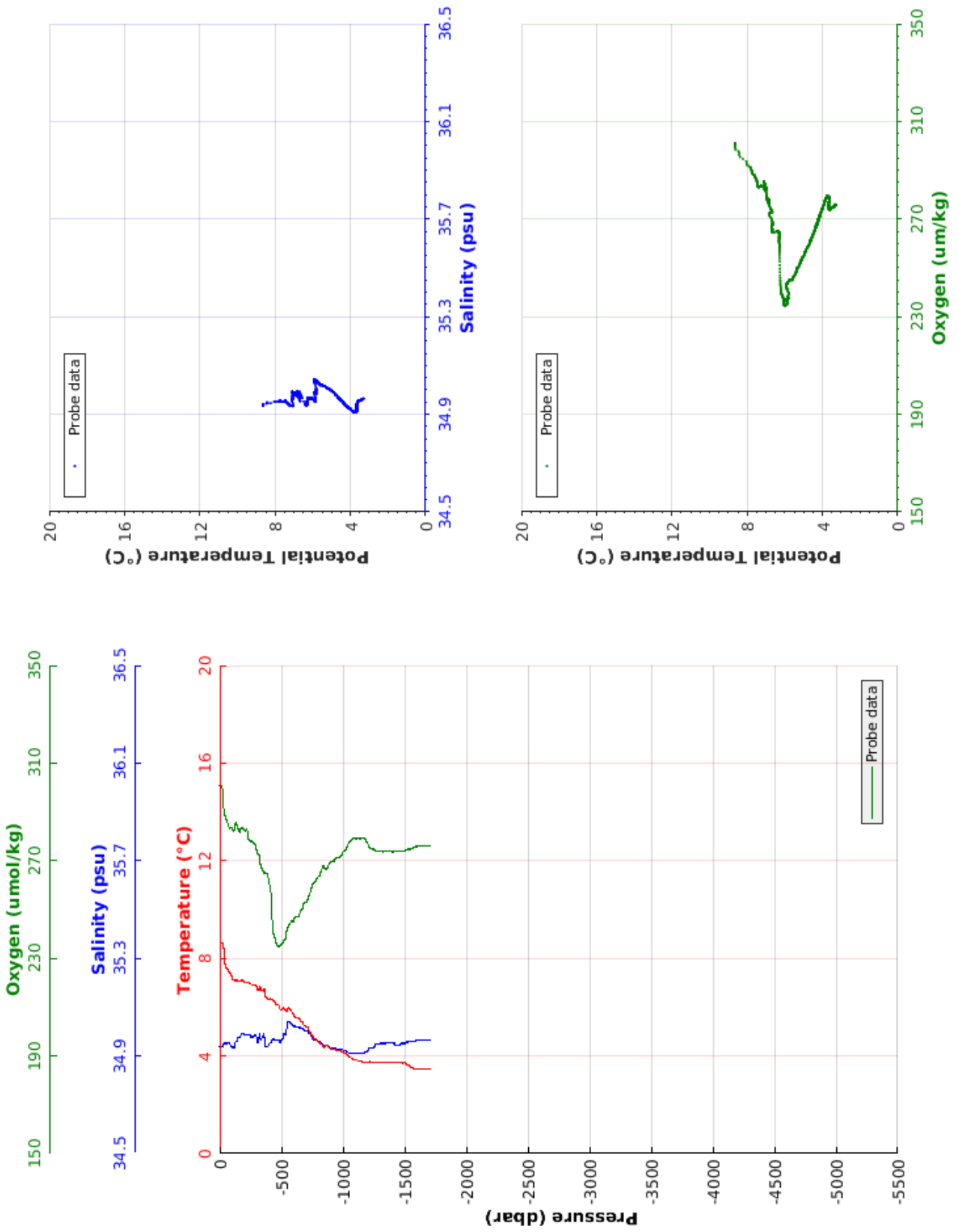
Station: 98

```

-----
| Cruise      : OVIDE 2018
| Station     : 101           Cast      : 1
| Date        : 01/07/2018    Ship       : N/O THALASSA
| Depth       : 1710 m        Organism  : IFREMER
| Position    : N 58 32.80
|              W 030 10.99
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.650	34.938	301.1	8.650
10.0	8.646	34.938	300.9	8.645
20.0	8.650	34.938	300.7	8.648
30.0	8.465	34.944	297.7	8.462
40.0	7.803	34.953	291.0	7.799
50.0	7.673	34.954	288.2	7.669
100.0	7.227	34.937	283.4	7.217
150.0	7.084	34.971	283.4	7.070
200.0	7.034	34.986	282.8	7.015
250.0	6.964	34.985	278.3	6.941
300.0	6.843	34.979	275.7	6.815
350.0	6.706	34.980	266.3	6.673
400.0	6.335	34.945	262.8	6.299
450.0	6.160	34.964	238.4	6.120
500.0	5.902	34.960	235.4	5.858
550.0	5.935	35.029	241.5	5.887
600.0	5.689	35.023	245.0	5.638
650.0	5.510	35.017	247.3	5.454
700.0	5.204	35.005	252.9	5.145
750.0	4.826	34.978	258.8	4.765
800.0	4.581	34.959	263.3	4.517
850.0	4.376	34.939	268.0	4.309
900.0	4.302	34.934	269.0	4.232
950.0	4.230	34.930	270.9	4.156
1000.0	4.156	34.926	272.7	4.078
1050.0	3.966	34.913	277.1	3.885
1100.0	3.844	34.909	279.2	3.761
1150.0	3.783	34.912	279.1	3.696
1200.0	3.731	34.919	277.7	3.640
1250.0	3.748	34.933	274.7	3.653
1300.0	3.746	34.950	273.9	3.647
1350.0	3.740	34.952	273.8	3.636
1400.0	3.742	34.952	273.7	3.633
1450.0	3.719	34.945	274.0	3.607
1500.0	3.723	34.952	273.8	3.606
1550.0	3.553	34.959	274.6	3.433
1600.0	3.464	34.964	275.8	3.341
1650.0	3.460	34.964	275.9	3.333
1700.0	3.448	34.964	275.8	3.316
1719.0	3.456	34.964	276.1	3.322



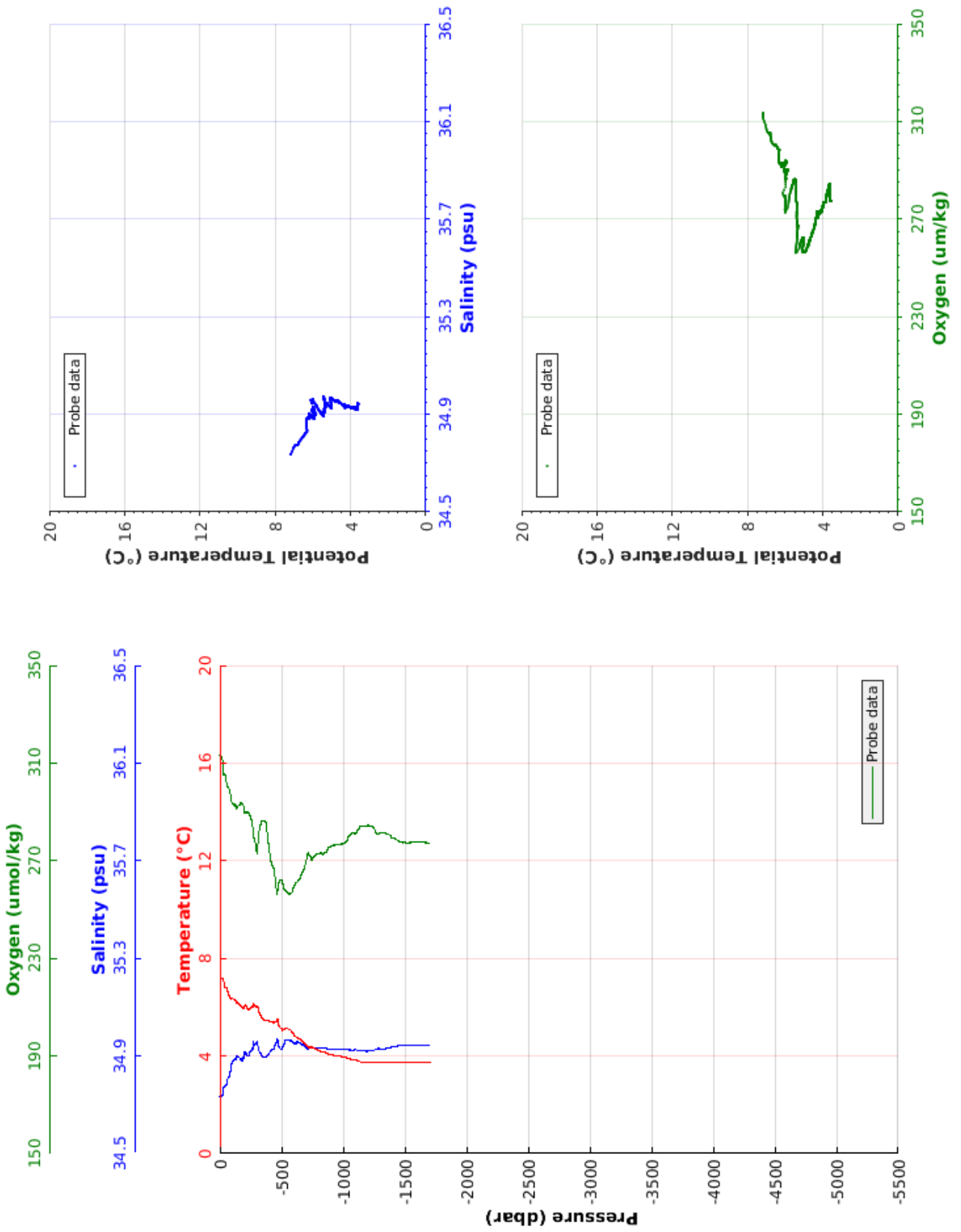
Station: 101

```

-----
| Cruise      : OVIDE 2018
| Station     : 102           Cast      : 1
| Date        : 02/07/2018   Ship       : N/O THALASSA
| Depth       : 1702 m       Organism  : IFREMER
| Position    : N 58 58.27
|              W 032 5.84
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.188	34.735	313.3	7.188
10.0	7.192	34.735	313.3	7.191
20.0	7.181	34.737	312.7	7.179
30.0	7.097	34.750	309.6	7.094
40.0	6.844	34.773	305.2	6.841
50.0	6.806	34.776	305.0	6.802
100.0	6.346	34.868	294.9	6.337
150.0	6.128	34.894	292.1	6.115
200.0	6.063	34.913	291.2	6.046
250.0	5.961	34.918	288.5	5.939
300.0	6.034	34.955	275.3	6.008
350.0	5.522	34.898	286.3	5.493
400.0	5.423	34.909	276.9	5.390
450.0	5.405	34.942	264.3	5.367
500.0	5.115	34.928	262.3	5.074
550.0	5.114	34.965	257.3	5.069
600.0	4.837	34.952	258.8	4.789
650.0	4.705	34.954	262.4	4.653
700.0	4.448	34.935	268.9	4.394
750.0	4.370	34.940	270.4	4.312
800.0	4.223	34.931	272.7	4.162
850.0	4.148	34.933	272.9	4.083
900.0	4.058	34.928	275.7	3.990
950.0	4.011	34.927	276.8	3.938
1000.0	3.957	34.929	277.0	3.881
1050.0	3.872	34.925	279.9	3.792
1100.0	3.833	34.926	281.0	3.749
1150.0	3.753	34.920	284.0	3.666
1200.0	3.730	34.919	284.4	3.639
1250.0	3.721	34.922	283.7	3.626
1300.0	3.731	34.929	281.3	3.632
1350.0	3.724	34.930	281.2	3.620
1400.0	3.738	34.937	279.3	3.630
1450.0	3.738	34.942	278.1	3.625
1500.0	3.742	34.943	277.4	3.624
1550.0	3.735	34.942	277.4	3.614
1600.0	3.733	34.942	277.6	3.606
1650.0	3.731	34.942	277.5	3.600
1700.0	3.728	34.944	277.3	3.593
1714.0	3.727	34.944	277.3	3.591



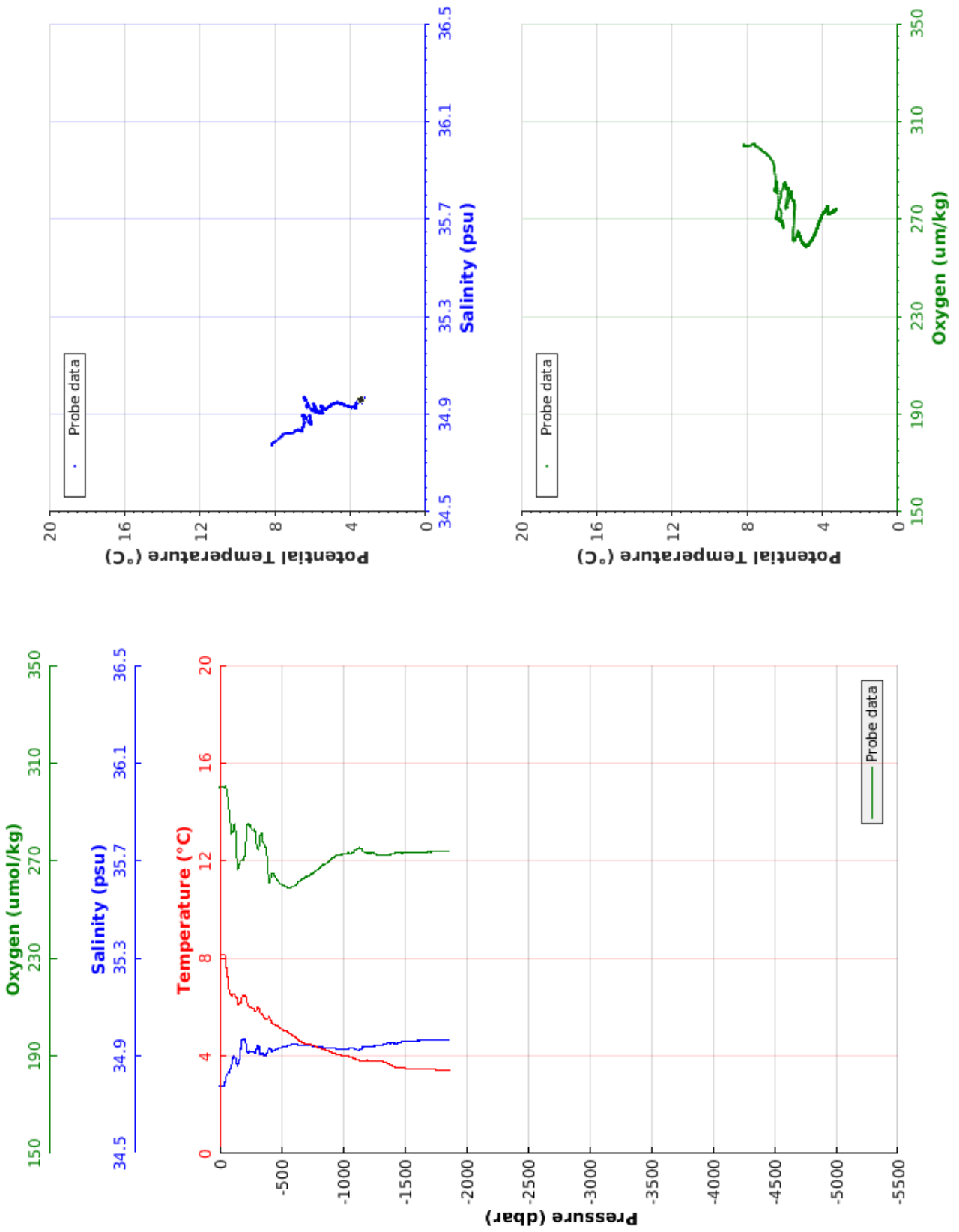
Station: 102


```

-----
| Cruise      : OVIDE 2018
| Station     : 103           Cast      : 1
| Date       : 08/07/2018    Ship     : N/O THALASSA
| Depth      : 1860 m        Organism : IFREMER
| Position   : N 56 49.53
|             W 034 11.62
|
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	8.164	34.777	300.0	8.164
10.0	8.165	34.778	300.1	8.164
20.0	8.165	34.778	300.1	8.163
30.0	8.166	34.778	300.0	8.163
40.0	8.158	34.780	300.1	8.154
50.0	7.741	34.804	300.5	7.736
100.0	6.449	34.868	280.9	6.440
150.0	6.085	34.859	266.9	6.072
200.0	6.438	34.965	270.4	6.420
250.0	5.998	34.917	284.4	5.976
300.0	5.894	34.924	279.1	5.868
350.0	5.670	34.907	280.6	5.640
400.0	5.585	34.930	264.5	5.551
450.0	5.293	34.922	264.1	5.256
500.0	5.107	34.935	260.4	5.067
550.0	4.987	34.941	259.4	4.943
600.0	4.814	34.948	259.2	4.766
650.0	4.586	34.944	261.5	4.535
700.0	4.499	34.944	263.4	4.445
750.0	4.442	34.941	264.5	4.383
800.0	4.331	34.937	266.5	4.269
850.0	4.261	34.935	268.3	4.196
900.0	4.170	34.933	270.2	4.101
950.0	4.058	34.929	272.0	3.985
1000.0	4.024	34.928	272.5	3.948
1050.0	3.975	34.930	273.2	3.895
1100.0	3.871	34.927	274.3	3.787
1150.0	3.786	34.928	275.0	3.699
1200.0	3.819	34.939	273.1	3.728
1250.0	3.794	34.939	273.2	3.699
1300.0	3.783	34.946	272.3	3.683
1350.0	3.714	34.951	272.4	3.611
1400.0	3.602	34.953	272.7	3.495
1450.0	3.515	34.953	273.2	3.405
1500.0	3.499	34.961	273.2	3.384
1550.0	3.484	34.962	273.5	3.365
1600.0	3.465	34.962	273.6	3.342
1650.0	3.460	34.962	273.5	3.332
1700.0	3.461	34.963	273.8	3.329
1750.0	3.440	34.963	273.8	3.304
1800.0	3.428	34.964	273.8	3.287
1850.0	3.423	34.965	274.0	3.278
1873.0	3.420	34.964	274.1	3.273



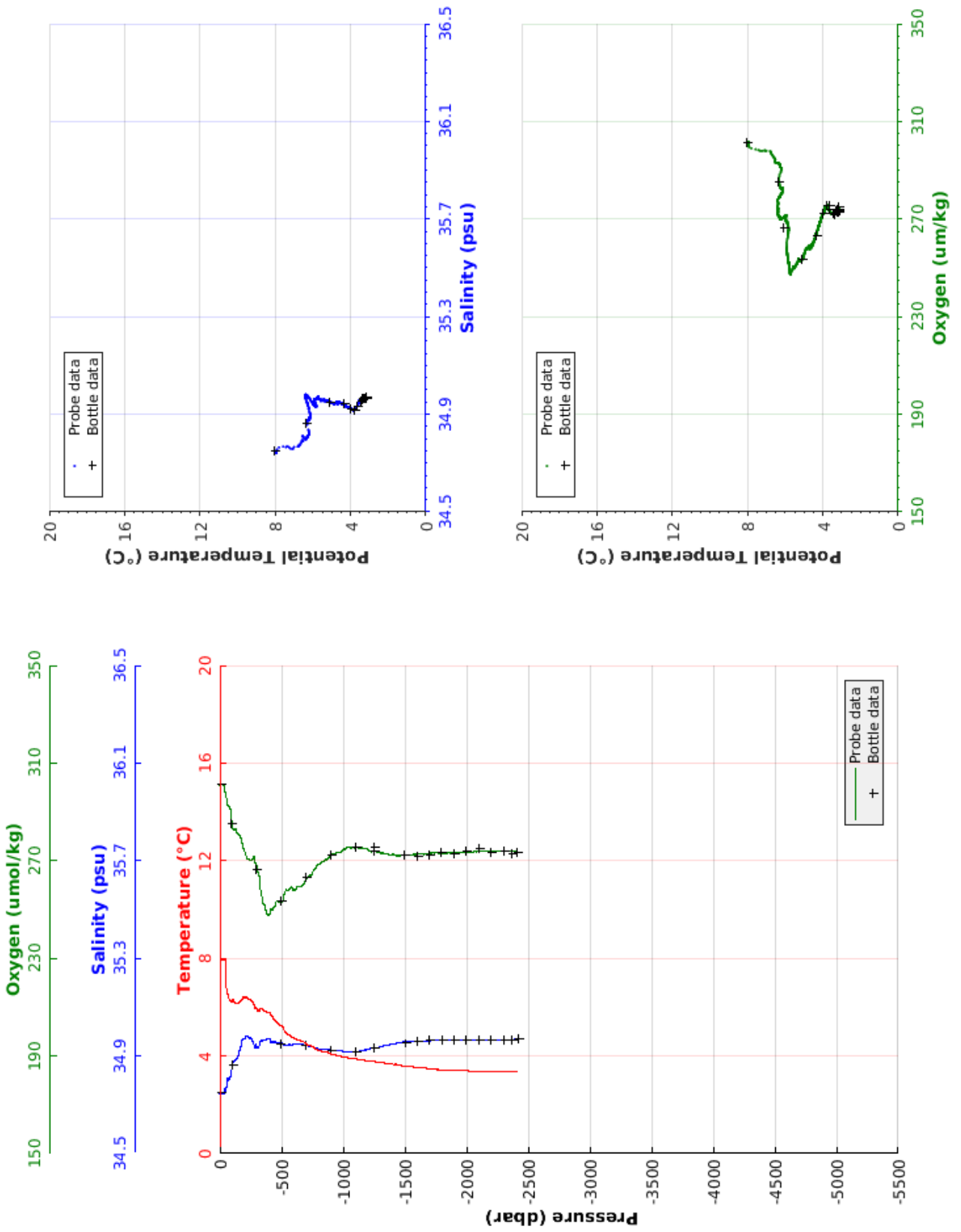
Station: 103

```

-----
| Cruise      : OVIDE 2018
| Station     : 104           Cast      : 1
| Date       : 08/07/2018    Ship       : N/O THALASSA
| Depth      : 2393 m        Organism  : IFREMER
| Position   : N 56 47.98
|             W 034 10.13
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.947	34.743	300.8	7.947
10.0	7.947	34.744	301.0	7.946
20.0	7.947	34.744	301.3	7.945
30.0	7.948	34.743	301.0	7.945
40.0	7.943	34.747	300.5	7.939
50.0	7.106	34.758	298.1	7.101
100.0	6.311	34.857	288.2	6.303
150.0	6.160	34.896	281.3	6.147
200.0	6.403	34.972	274.6	6.385
250.0	6.300	34.975	270.2	6.278
300.0	5.895	34.932	268.5	5.869
350.0	5.894	34.962	254.4	5.864
400.0	5.763	34.971	247.4	5.729
450.0	5.452	34.961	251.4	5.414
500.0	5.245	34.955	252.9	5.204
550.0	4.908	34.944	258.0	4.864
600.0	4.727	34.949	257.8	4.680
650.0	4.634	34.949	259.3	4.582
700.0	4.486	34.943	262.0	4.432
750.0	4.382	34.938	264.3	4.324
800.0	4.240	34.930	268.3	4.178
850.0	4.168	34.926	269.9	4.103
900.0	4.095	34.924	271.6	4.026
950.0	4.022	34.921	273.1	3.949
1000.0	3.960	34.919	273.8	3.884
1050.0	3.916	34.916	275.4	3.836
1100.0	3.878	34.918	275.1	3.794
1150.0	3.836	34.921	275.2	3.748
1200.0	3.805	34.927	274.7	3.713
1250.0	3.771	34.932	273.8	3.676
1300.0	3.730	34.937	273.6	3.631
1350.0	3.698	34.943	272.8	3.594
1400.0	3.660	34.948	272.4	3.553
1450.0	3.643	34.955	272.0	3.531
1500.0	3.572	34.959	272.4	3.457
1550.0	3.557	34.960	272.5	3.437
1600.0	3.524	34.961	272.7	3.400
1650.0	3.508	34.961	272.8	3.380
1700.0	3.479	34.962	272.7	3.347
1750.0	3.442	34.964	273.2	3.306
1800.0	3.431	34.965	273.0	3.290
1850.0	3.413	34.965	273.1	3.268
1900.0	3.401	34.965	273.3	3.252
1950.0	3.394	34.966	273.4	3.240
2000.0	3.396	34.966	273.2	3.237
2050.0	3.382	34.966	273.5	3.219
2100.0	3.366	34.967	273.7	3.198
2150.0	3.366	34.967	273.8	3.193
2200.0	3.368	34.967	273.9	3.191
2250.0	3.361	34.967	273.9	3.179
2300.0	3.359	34.967	273.9	3.172
2350.0	3.362	34.967	273.9	3.170
2400.0	3.358	34.968	274.0	3.162
2419.0	3.358	34.968	274.1	3.160



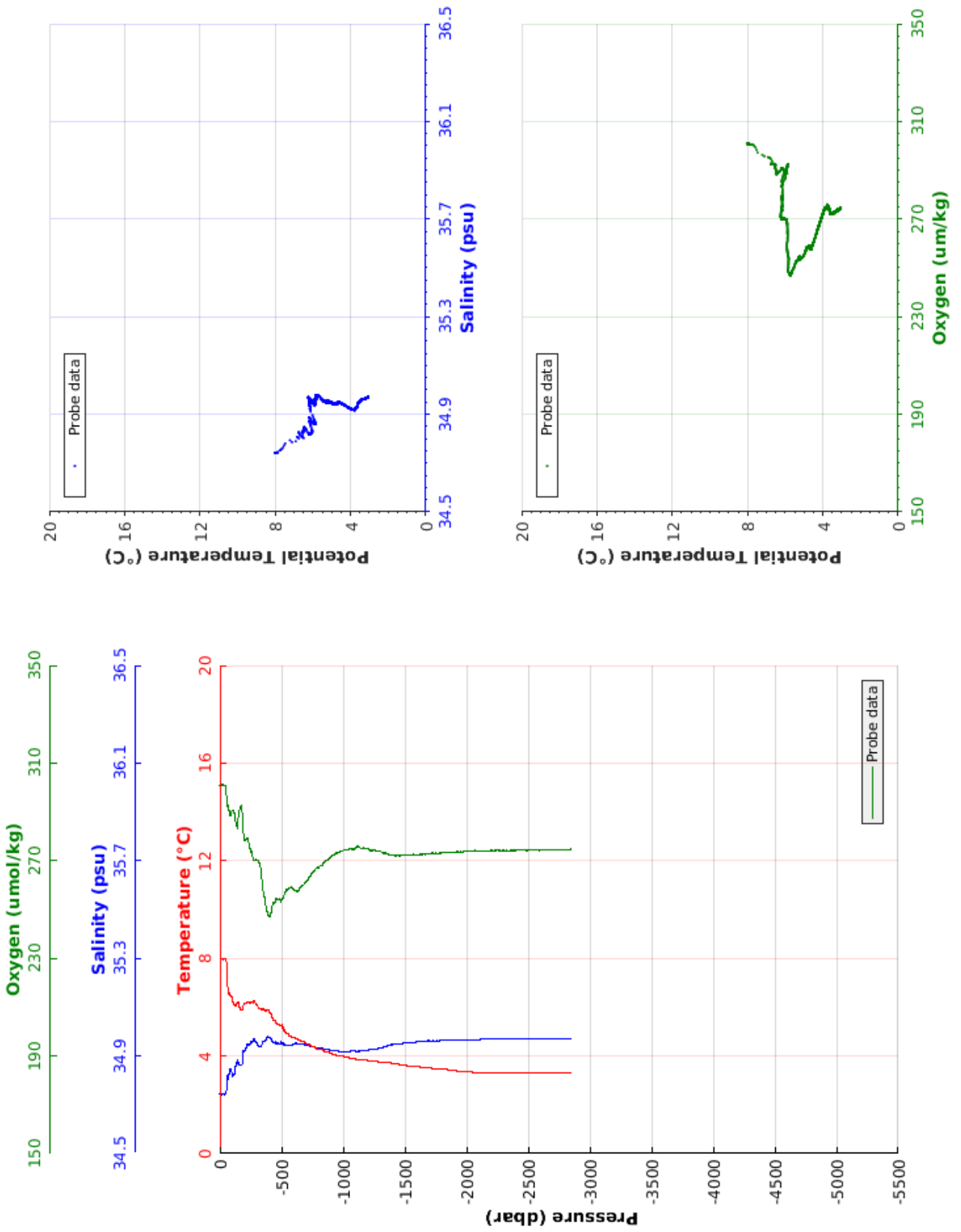
Station: 104

```

-----
| Cruise      : OVIDE 2018
| Station     : 105           Cast      : 1
| Date       : 08/07/2018   Ship     : N/O THALASSA
| Depth      : 2823 m       Organism : IFREMER
| Position   : N 56 47.06
|             W 034 9.26
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.980	34.742	301.0	7.980
10.0	7.978	34.742	300.7	7.977
20.0	7.973	34.742	301.0	7.971
30.0	7.954	34.742	301.2	7.951
40.0	7.967	34.742	300.8	7.963
50.0	7.931	34.742	300.7	7.926
100.0	6.295	34.827	289.5	6.286
150.0	6.188	34.886	283.6	6.175
200.0	6.163	34.921	279.9	6.146
250.0	6.191	34.950	275.1	6.169
300.0	6.109	34.956	270.2	6.083
350.0	5.927	34.955	260.5	5.897
400.0	5.815	34.977	247.6	5.781
450.0	5.455	34.956	252.4	5.418
500.0	5.270	34.958	253.2	5.229
550.0	4.907	34.944	258.2	4.863
600.0	4.748	34.948	258.2	4.700
650.0	4.634	34.948	258.6	4.583
700.0	4.513	34.944	261.2	4.458
750.0	4.372	34.937	264.8	4.314
800.0	4.287	34.933	267.1	4.226
850.0	4.193	34.928	269.4	4.127
900.0	4.101	34.923	271.4	4.033
950.0	4.028	34.921	273.1	3.956
1000.0	3.985	34.918	274.0	3.909
1050.0	3.927	34.919	274.4	3.847
1100.0	3.889	34.919	274.9	3.805
1150.0	3.843	34.921	275.1	3.755
1200.0	3.816	34.924	275.1	3.724
1250.0	3.783	34.928	274.3	3.687
1300.0	3.758	34.932	273.9	3.658
1350.0	3.734	34.939	273.1	3.630
1400.0	3.708	34.946	272.2	3.600
1450.0	3.661	34.949	272.3	3.549
1500.0	3.603	34.953	272.2	3.488
1550.0	3.583	34.955	272.5	3.463
1600.0	3.560	34.958	272.4	3.436
1650.0	3.526	34.962	272.8	3.398
1700.0	3.498	34.962	273.0	3.366
1750.0	3.491	34.962	273.0	3.354
1800.0	3.455	34.963	273.1	3.315
1850.0	3.434	34.963	273.4	3.289
1900.0	3.412	34.964	273.5	3.263
1950.0	3.370	34.966	273.4	3.217
2000.0	3.345	34.966	273.7	3.187
2050.0	3.329	34.967	273.9	3.166
2100.0	3.317	34.967	274.1	3.151
2150.0	3.305	34.968	274.0	3.133
2200.0	3.298	34.969	274.2	3.122
2250.0	3.283	34.969	274.3	3.102
2300.0	3.285	34.970	274.2	3.099
2350.0	3.286	34.969	274.0	3.096
2400.0	3.288	34.969	274.1	3.093
2450.0	3.284	34.970	274.3	3.083
2500.0	3.282	34.970	274.4	3.077
2550.0	3.287	34.970	274.3	3.076
2600.0	3.292	34.970	274.5	3.077
2650.0	3.296	34.970	274.4	3.075
2700.0	3.296	34.970	274.5	3.070
2750.0	3.299	34.970	274.6	3.068
2800.0	3.303	34.970	274.5	3.067
2850.0	3.308	34.970	274.8	3.066
2857.0	3.309	34.970	274.8	3.066



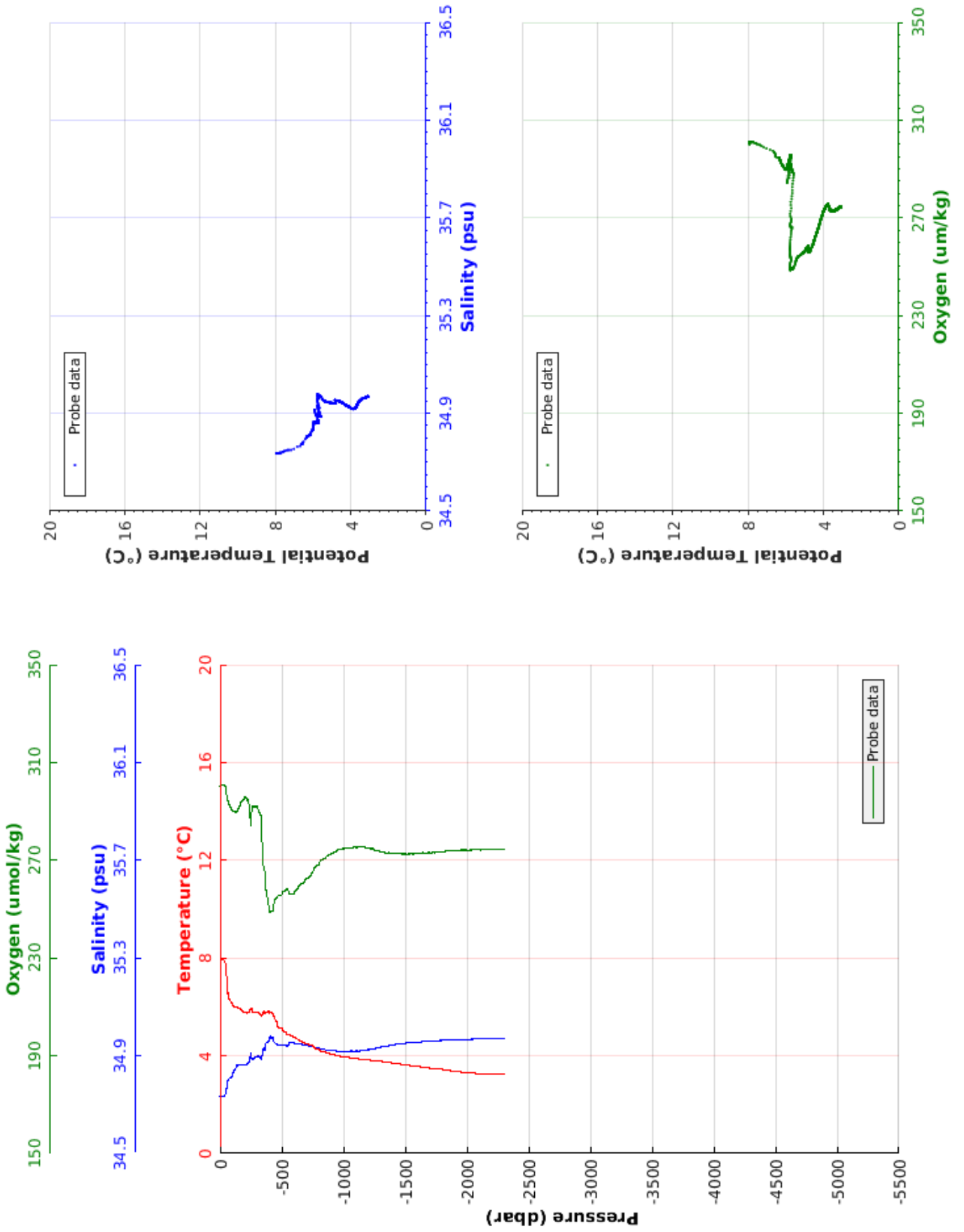
Station: 105

```

-----
| Cruise      : OVIDE 2018
| Station     : 106           Cast      : 1
| Date        : 08/07/2018    Ship       : N/O THALASSA
| Depth       : 2286 m        Organism  : IFREMER
| Position    : N 56 46.41
|              W 034 8.64
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.931	34.736	300.3	7.931
10.0	7.927	34.736	300.5	7.926
20.0	7.915	34.736	300.9	7.913
30.0	7.912	34.736	300.9	7.909
40.0	7.866	34.737	300.9	7.862
50.0	7.515	34.746	300.1	7.510
100.0	6.144	34.816	290.7	6.136
150.0	5.945	34.860	291.2	5.932
200.0	5.796	34.863	295.1	5.779
250.0	5.906	34.899	287.1	5.885
300.0	5.763	34.897	291.9	5.737
350.0	5.777	34.921	272.7	5.747
400.0	5.808	34.973	251.3	5.774
450.0	5.465	34.952	253.4	5.428
500.0	5.113	34.944	255.8	5.073
550.0	4.869	34.941	258.5	4.825
600.0	4.773	34.952	256.2	4.726
650.0	4.593	34.947	259.9	4.542
700.0	4.496	34.943	262.2	4.442
750.0	4.380	34.937	264.6	4.322
800.0	4.247	34.930	268.2	4.185
850.0	4.145	34.926	270.7	4.080
900.0	4.077	34.922	272.6	4.009
950.0	4.007	34.919	273.8	3.935
1000.0	3.954	34.918	274.7	3.878
1050.0	3.921	34.919	274.9	3.841
1100.0	3.874	34.919	275.5	3.791
1150.0	3.852	34.920	275.6	3.764
1200.0	3.828	34.924	275.0	3.736
1250.0	3.802	34.928	274.4	3.706
1300.0	3.779	34.933	273.6	3.679
1350.0	3.745	34.938	273.0	3.641
1400.0	3.690	34.945	273.0	3.583
1450.0	3.662	34.948	272.7	3.550
1500.0	3.632	34.952	272.5	3.516
1550.0	3.586	34.954	272.7	3.466
1600.0	3.560	34.956	272.8	3.436
1650.0	3.525	34.958	273.0	3.397
1700.0	3.496	34.961	273.2	3.364
1750.0	3.475	34.962	273.4	3.339
1800.0	3.441	34.963	273.4	3.300
1850.0	3.402	34.963	273.8	3.257
1900.0	3.348	34.965	274.0	3.200
1950.0	3.334	34.966	274.0	3.181
2000.0	3.313	34.967	274.2	3.156
2050.0	3.291	34.968	274.4	3.129
2100.0	3.272	34.969	274.6	3.106
2150.0	3.273	34.969	274.5	3.103
2200.0	3.275	34.969	274.4	3.099
2250.0	3.271	34.969	274.7	3.090
2300.0	3.269	34.970	274.5	3.084
2313.0	3.270	34.970	274.7	3.084



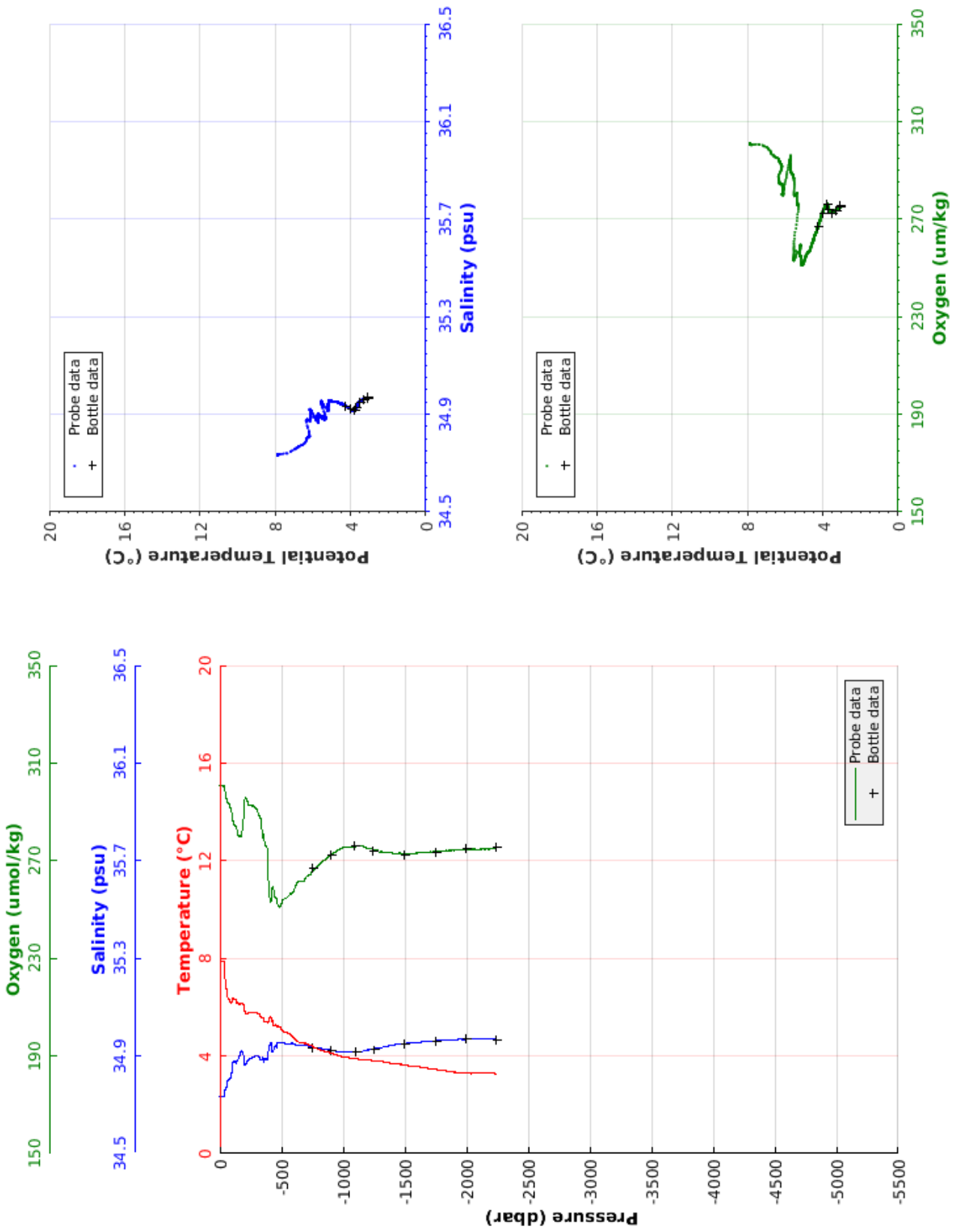
Station: 106


```

-----
| Cruise      : OVIDE 2018
| Station    : 107          Cast      : 1
| Date       : 08/07/2018   Ship     : N/O THALASSA
| Depth      : 2224 m       Organism : IFREMER
| Position   : N 56 44.94
|             W 034 7.39
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.875	34.734	301.0	7.875
10.0	7.873	34.733	301.0	7.872
20.0	7.878	34.733	300.8	7.876
30.0	7.858	34.734	300.7	7.855
40.0	7.362	34.740	300.5	7.358
50.0	6.790	34.766	297.9	6.786
100.0	6.227	34.832	290.4	6.218
150.0	6.126	34.884	281.2	6.113
200.0	5.920	34.885	289.3	5.903
250.0	5.773	34.890	292.6	5.752
300.0	5.753	34.901	291.3	5.727
350.0	5.569	34.893	280.3	5.540
400.0	5.573	34.939	260.8	5.540
450.0	5.262	34.939	255.3	5.225
500.0	5.085	34.955	251.6	5.045
550.0	4.949	34.950	254.9	4.905
600.0	4.739	34.951	257.3	4.691
650.0	4.550	34.942	261.5	4.499
700.0	4.498	34.943	262.8	4.444
750.0	4.389	34.937	265.2	4.330
800.0	4.276	34.932	268.1	4.215
850.0	4.189	34.928	270.1	4.123
900.0	4.120	34.924	271.9	4.051
950.0	4.027	34.919	273.9	3.955
1000.0	3.961	34.917	275.0	3.885
1050.0	3.922	34.917	275.6	3.842
1100.0	3.884	34.918	275.7	3.801
1150.0	3.853	34.919	276.2	3.765
1200.0	3.835	34.925	274.9	3.743
1250.0	3.803	34.929	274.7	3.708
1300.0	3.773	34.934	273.5	3.673
1350.0	3.739	34.939	273.6	3.635
1400.0	3.690	34.944	273.3	3.582
1450.0	3.660	34.948	273.0	3.549
1500.0	3.636	34.951	272.9	3.520
1550.0	3.585	34.955	272.9	3.465
1600.0	3.563	34.956	273.1	3.439
1650.0	3.532	34.959	273.3	3.404
1700.0	3.493	34.960	273.5	3.361
1750.0	3.452	34.962	273.7	3.316
1800.0	3.410	34.963	273.9	3.270
1850.0	3.378	34.964	274.1	3.234
1900.0	3.349	34.965	274.2	3.200
1950.0	3.298	34.968	274.5	3.146
2000.0	3.290	34.968	274.6	3.133
2050.0	3.280	34.968	274.7	3.119
2100.0	3.283	34.969	274.5	3.117
2150.0	3.284	34.969	274.7	3.113
2200.0	3.283	34.969	274.7	3.108
2246.0	3.276	34.969	275.2	3.096



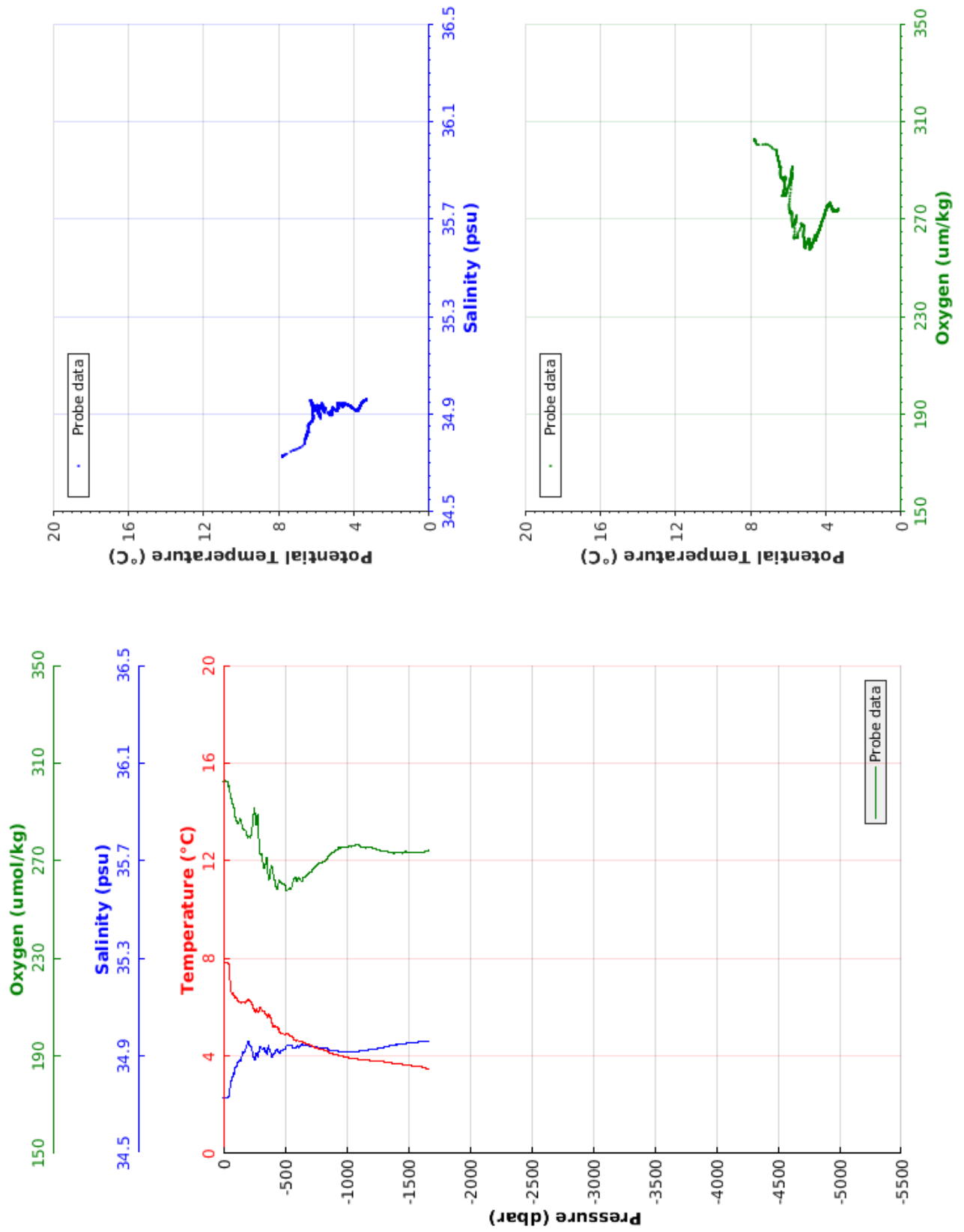
Station: 107

```

-----
| Cruise      : OVIDE 2018
| Station     : 108           Cast      : 1
| Date        : 09/07/2018   Ship       : N/O THALASSA
| Depth       : 1666 m       Organism  : IPREMER
| Position    : N 56 44.12
|              W 034 6.53
-----

```

PRESSURE	TEMPERA- TURE	SALINITY	DISSOLV. OXYGEN	POTENT. TEMP.
dbar	deg.cels.	psu	umol/kg	deg.cels.
0.0	7.821	34.728	302.4	7.821
10.0	7.822	34.728	302.7	7.821
20.0	7.822	34.729	302.7	7.820
30.0	7.822	34.729	302.6	7.819
40.0	7.795	34.729	302.4	7.791
50.0	7.362	34.748	300.5	7.358
100.0	6.444	34.854	288.7	6.436
150.0	6.191	34.897	286.1	6.178
200.0	6.316	34.952	280.0	6.299
250.0	5.870	34.895	288.7	5.849
300.0	5.973	34.937	273.8	5.947
350.0	5.671	34.917	269.3	5.642
400.0	5.286	34.902	267.4	5.253
450.0	5.045	34.918	260.1	5.009
500.0	4.876	34.927	260.3	4.836
550.0	4.806	34.944	258.6	4.762
600.0	4.650	34.941	261.6	4.603
650.0	4.549	34.943	262.6	4.499
700.0	4.455	34.941	264.6	4.400
750.0	4.339	34.937	267.4	4.281
800.0	4.263	34.933	269.3	4.202
850.0	4.176	34.929	271.1	4.111
900.0	4.081	34.922	273.4	4.012
950.0	3.999	34.918	275.4	3.927
1000.0	3.940	34.916	275.5	3.864
1050.0	3.906	34.917	276.0	3.826
1100.0	3.858	34.918	276.6	3.774
1150.0	3.848	34.923	275.4	3.761
1200.0	3.812	34.925	275.5	3.720
1250.0	3.788	34.930	274.6	3.692
1300.0	3.763	34.935	274.1	3.663
1350.0	3.729	34.940	273.5	3.626
1400.0	3.690	34.946	273.4	3.582
1450.0	3.653	34.949	273.2	3.541
1500.0	3.611	34.953	273.6	3.495
1550.0	3.585	34.956	273.4	3.465
1600.0	3.554	34.957	273.4	3.430
1650.0	3.480	34.959	273.9	3.352
1677.0	3.461	34.961	274.1	3.331



Station: 108

