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Oceanographic Data Collected in the Straits of Florida at 27°N during the Year 2018, including the Estimated Florida Current Transport

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September 2020

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National Oceanic and Atmospheric Administration / **Office of Oceanic and Atmospheric Research**

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September 2020

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Abstract

This report summarizes the Florida Current data collected along 27°N during calendar year 2018 as part of the NOAA-funded Western Boundary Time Series project. This includes the daily Florida Current volume transport values estimated from one-minute voltage data on an out-of-service telephone cable, as well as observations collected on cruises on the R/V Walton Smith (i.e. full-water-column conductivity-temperature-depth, CTD, and lowered acoustic Doppler current profiler, LADCP, profiles). The report also includes shipboard (i.e. hull-mounted) ADCP data collected on the R/V Walton Smith, and dropsonde and expendable bathythermograph (XBT) data collected on small boat cruises. The data presented herein are in final processed and quality controlled form. The report also documents where the electronic files for these data can be obtained.

1 Introduction

The Florida Current is perhaps one of the most well observed oceanic flows in the world. This warm surface current flows northward through the Straits of Florida from the Gulf of Mexico to 27°N, where it exits the Straits and becomes the Gulf Stream. Along the way the Florida Current forms both the western boundary current of the subtropical gyre and the upper limb of the Meridional Overturning Circulation. Modern observation of the Florida Current at 27°N began in 1982, when the National Oceanic and Atmospheric Administration (NOAA) began funding a project to measure the volume transport and hydrographic structure of the flow between Florida and Grand Bahama Island. The project changed names several times over the next 20 years, and since the year 2000 the Florida Current observations have been a component of the Western Boundary Time Series (WBTS) project, with funding from the NOAA Climate Program Office - Ocean Observing and Monitoring Division. The nominal locations where data are collected are shown in Figure 1 and Table 1.

This data report details all of the WBTS observations collected in the Florida Current over the calendar year. These data come in two categories:

1. Continuous time series observations made via an unused submarine telephone cable.

2. Ship-based observations made several times per year on either research vessels or small chartered boats.

Data presented in this report are organized by collection platform - either cable, research vessel, or small charter boat. Data are reported both graphically and via tables; a later section in the report provides web links to the electronic data files themselves. Further information about these data can be obtained either on the project web page (www.aoml.noaa.gov/phod/floridacurrent/) or from the contact personnel listed on that web page.

Station	Latitude	Longitude	Depth
0	27°00.00' N	79°55.80' W	139
1	27°00.00' N	79°52.00' W	261
2	27°00.00' N	79°47.00' W	389
3	27°00.00' N	79°41.00' W	540
4	27°00.00' N	79°37.00' W	661
5	27°00.00' N	79°30.00' W	783
6	27°00.00' N	79°23.00' W	708
7	27°00.00' N	79°17.00' W	624
8	27°00.00' N	79°12.00' W	485

Table 1: Nominal locations and depths (m) for the dropsonde/XBT and CTD/LADCP data collected in the Straits of Florida.

1.1 Continuous observations

Basic electromagnetic theory indicates that when charged particles move through a magnetic field, an electric field is created perpendicular to the motion of the particles. The continuous measurements of the Florida Current volume transport made as part of the WBTS project take advantage of this basic physics, as the charged salt ions in seawater move northward in the Florida Current through the magnetic field of the Earth and create an east-west electric field. This electric field can be measured as a voltage on an out-of-use submarine telephone cable between Florida and Grand Bahama Island (see Figure 1). The technique used to estimate transport from voltage will be briefly presented in Section 2.

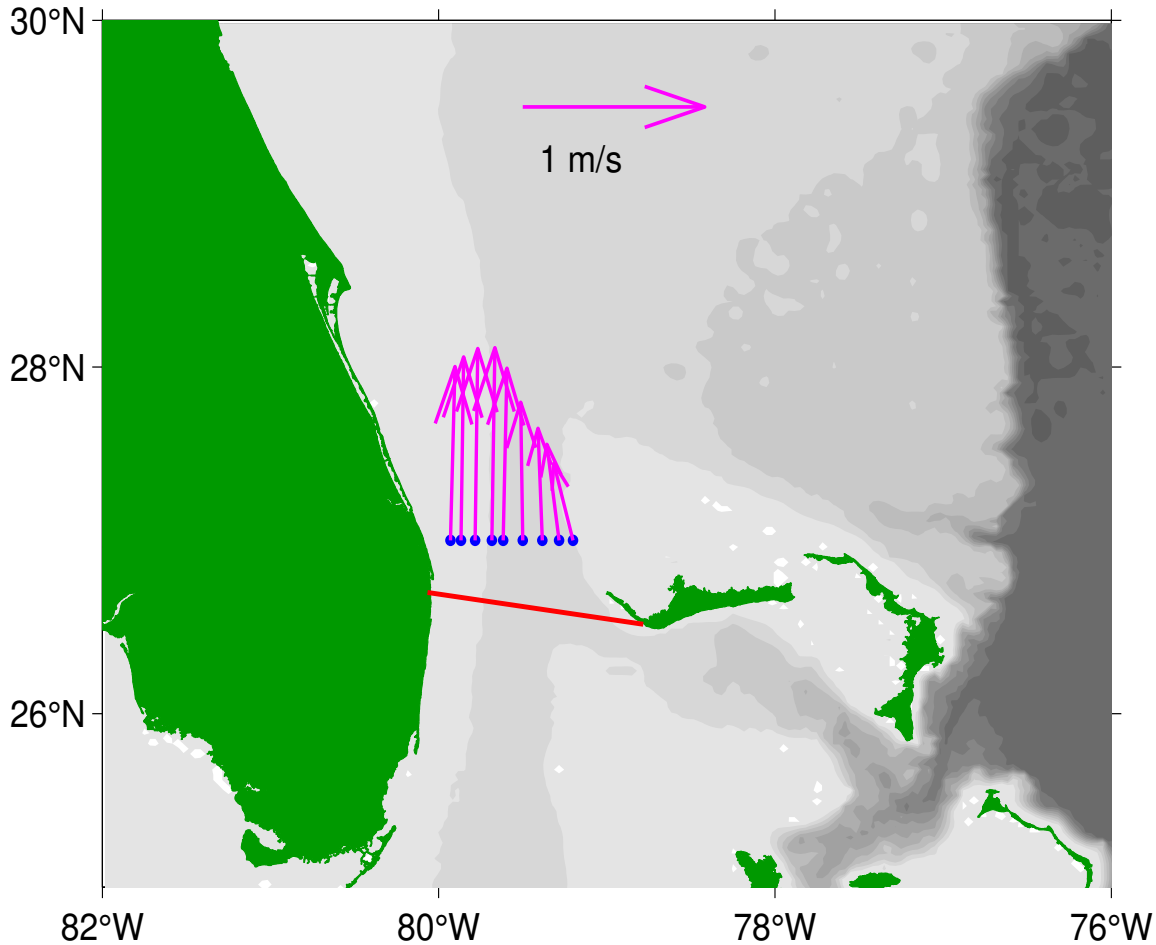

Figure 1: Map of the Straits of Florida study area. Blue dots indicate the locations of dropsonde, XBT and CTD/LADCP stations. Red line shows the approximate location of the telephone cable used for the voltage measurements. Magenta vectors illustrate the time mean vertically-averaged horizontal velocities from all dropsonde data collected between 1994 and 2014 to indicate observation locations relative to the Florida Current position.

1.2 Shipboard measurements

Ship sections collected in the Straits of Florida along 27°N as part of the WBTS project are used to calibrate the cable observations, and they also collect additional data sets that provide information about water properties and the velocity structure. Data are collected at nine stations along 27°N, and the same nine stations have been in use since the mid-1980s (see Figure 1 and Table 1). Two different types of ship sections are collected as part of the WBTS project: CTD/LADCP sections are collected via the R/V Walton Smith, and dropsonde/XBT sections are collected via small chartered boats. For more detail on how the data collected in these sections are used to calculate volume transport, please see Garcia and Meinen (2014).

2 Cable observations

As discussed in the Introduction, voltages induced on a submarine cable by the Florida Current have been shown to be proportional to the total current transport. These voltages are calibrated into volume transport using calibration coefficients originally derived in comparison to ship sections in the 1980s (e.g. Larsen and Sanford, 1985; Larsen, 1992), and the resulting calibrated volume transports are routinely verified by regular ship sections collected each year (see next section). Voltages are measured on the cable each minute by a voltmeter and computer; these voltages are then processed with a low-pass filter (2nd order Butterworth, passed both forward and backward to eliminate phase shifting) with a 3-day cut-off period to remove ionospheric noise from the record. The resulting volume transports are reported in units of Sverdrups (1 Sv = 10^6 m^3 s^{-1}). For further details on the cable observations and processing, please see Meinen et al., (2010).

Cable voltages have been monitored and daily total transport values obtained since 1982. A table listing the daily cable transport values is presented in Appendix A. The annual time series is presented graphically as Figure 2, with the estimated 'error bar' on each daily value indicated by the gray shading. Details on the estimation of the volume transport accuracy, i.e. the 'error bar', can be found in Garcia and Meinen (2014).

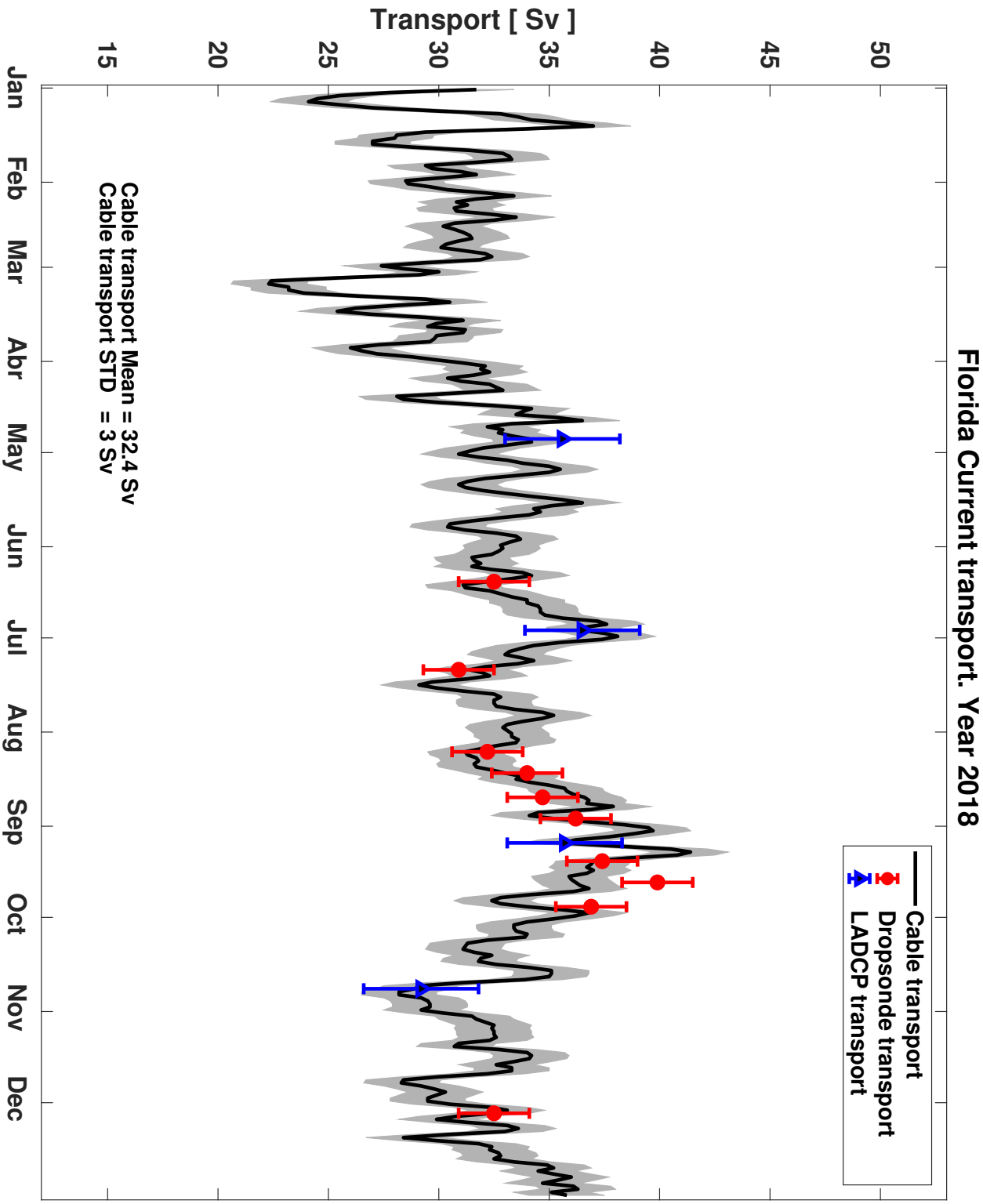

Figure 2: Observed Florida Current volume transports measured by cable voltage (black line), dropsonde sections (red dots) and LADCP sections (blue triangles). For each measurement system the estimated error bar is also shown. The annual mean and standard deviation (STD) from the cable voltage estimates are shown in the figure at lower left.

3 Dropsonde - XBT cruises

This section presents data collected on small boat charter cruises performed during the calendar year in the Straits of Florida at 27°N. These cruises involve the collection of measurements of vertically-averaged horizontal velocity, using dropsonde floats, and temperature profiles, using expendable bathythermographs (XBTs).

A dropsonde is a free-falling float that is deployed from a boat. Once deployed, it sinks to the bottom, drops a weight, and then rises back to the surface under its own buoyancy. Knowing the initial and final position of the dropsonde on the ocean surface at the start and end of the cast, and the elapsed time to complete the cast, it is possible to calculate the vertically-averaged horizontal velocity as the total distance traveled divided by the time required for the cast. For more detail on how the data are collected and used to estimate the volume transport of the Florida Current, please see Garcia and Meinen (2014).

The dates of the dropsonde/XBT cruises during the year, and the resulting estimated transports values, are shown in Table 2. The transport values are also plotted in Figure 2, where the corresponding error bars, as estimated by Garcia and Meinen (2014), are also shown. The individual dropsonde velocity measurements are listed in table form in Appendix B.

The XBT probes are launched at each of the same nine stations to obtain temperature profiles through the full water column (because the maximum depth along 27°N is roughly 750 m). Plots of the XBT temperature sections are shown in Figure 3 . The temperature profile data, organized by cruise, are shown in tabular form in Appendix C. Methods for the XBT processing and quality control can be found in Daneshzadeh et al. (1994).

Cruise No.	Year	Month	Day	Hour mean	Transport	Transport detided
1	2018	3	16	16	NaN	NaN
2	2018	6	12	15	35.1	32.5
3	2018	7	11	14	33.4	30.9
4	2018	8	7	15	35.3	32.2
5	2018	8	14	14	33.3	34.0
6	2018	8	22	13	36.5	34.7
7	2018	8	29	14	35.7	36.2
8	2018	9	12	14	36.6	37.4
9	2018	9	19	13	41.7	39.9
10	2018	9	27	14	35.7	36.9
11	2018	12	4	14	30.4	32.5

Table 2: Dropsonde/XBT cruise information: cruise number, cruise date, and transport values estimated with and without the tide signals. NaN indicates insuficient data to estimate transport.

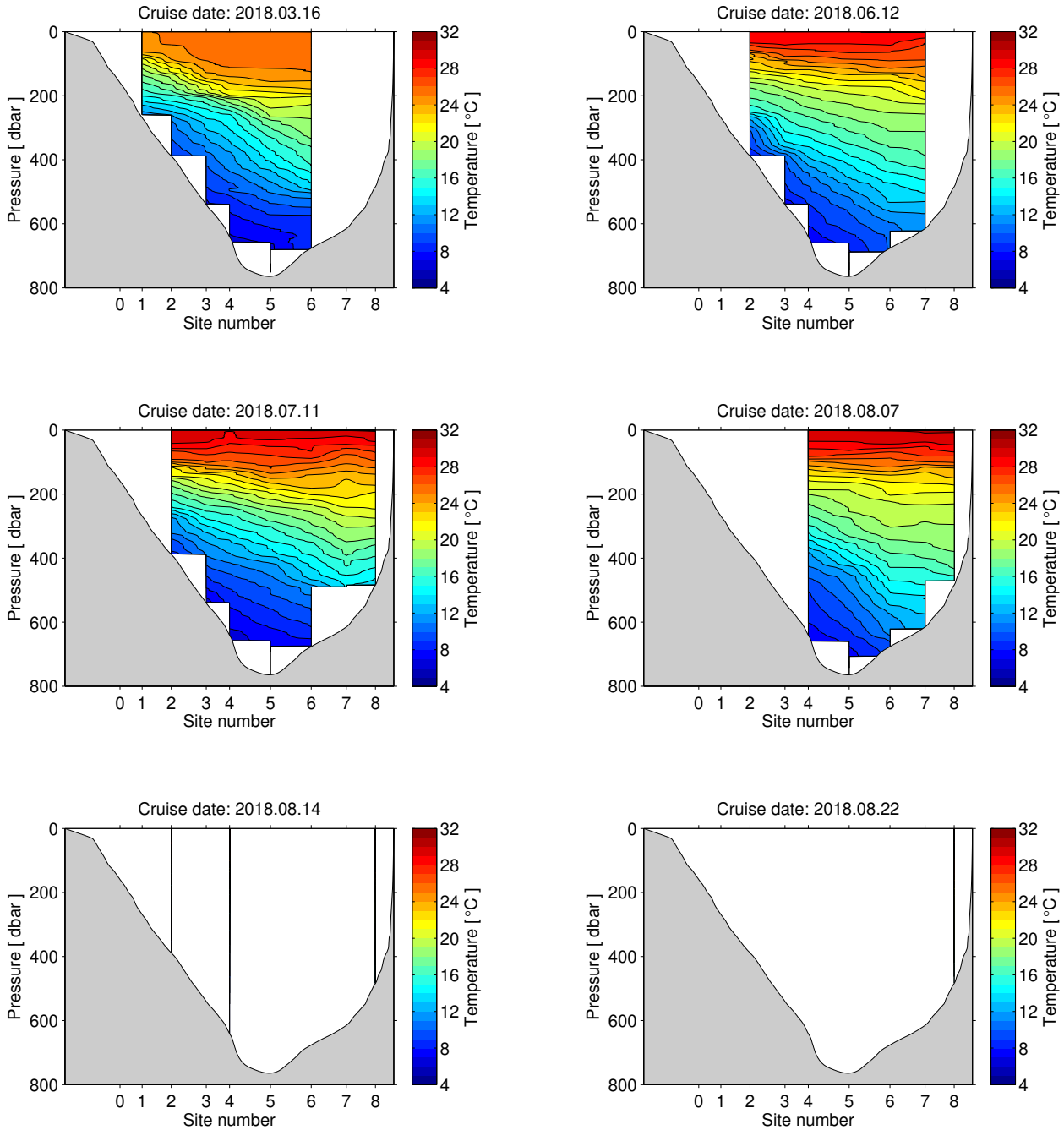

Figure 3: Temperature sections measured with XBT on the indicated dates. Date format is year, month, and day.

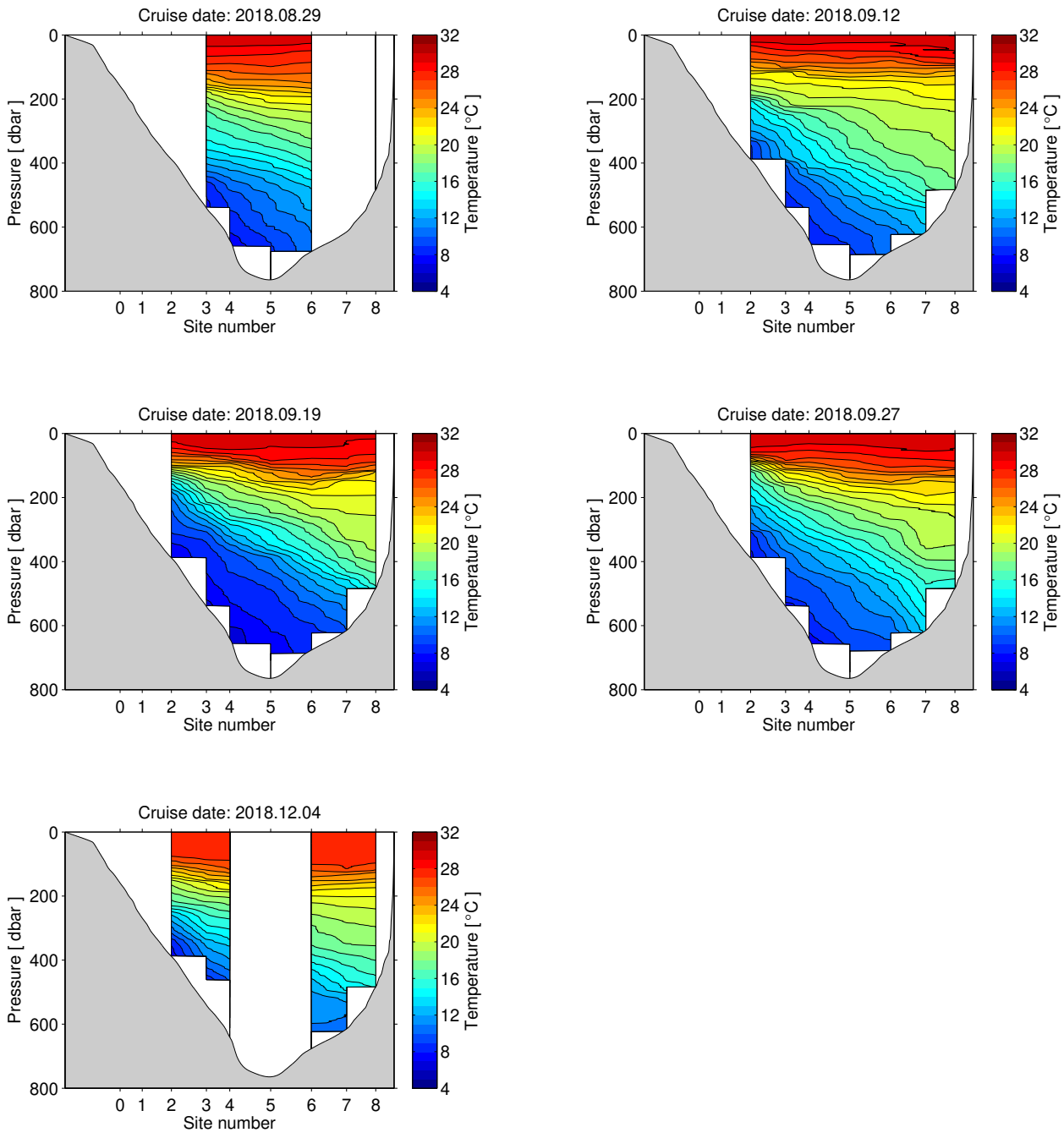

Figure 4: Same as Figure 3 for the data collected on the cruise date indicated.

4 CTD - LADCP - SADCP cruises

This section includes data from cruises on the R/V Walton Smith. Each cruise collects CTD/LADCP profiles at the nine stations given in Table 1. Transports from these cruises are estimated by first vertically-averaging the LADCP profiles, and the resulting vertical mean velocities are horizontally-integrated in the same manner as the dropsonde observations - see Garcia and Meinen (2014) for more detail.

The cruise dates and the estimated section transports, are shown in Table 3, and are plotted in Figure 2 with the corresponding error bars. For each cruise the horizontal vertically-mean LADCP velocity measurements are listed in Appendix D.

Vertical property sections (temperature, salinity, dissolved oxygen, zonal and meridional velocity) for each cruise are shown in the figures in this section of the report, beginning with Figure 5. Tables listing the data profiles for each station on each cruise are presented in Appendix E. Details of the processing and quality control of the CTD data follow the methods shown in Hooper and Baringer (2016). The LADCP processing follows the methods presented in Visbeck (2002) and Thurnherr (2010); the SADCP processing used the methods shown in Firing et al. (2012).

Cruise ID	Year	Month	Day	Hour mean	Transport	Transport detided
fc1804	2018	4	26	6	35.7	35.6
fc1806	2018	6	28	3	35.7	36.5
fc1809	2018	9	6	2	34.7	35.7
fc1810	2018	10	24	5	30.2	29.2

Table 3: CTD/LADCP/SADCP cruise information: cruise identification, cruise date, and transport values estimated using LADCP data, with and without the tide signals. Values of NaN indicate transport can not be estimated.

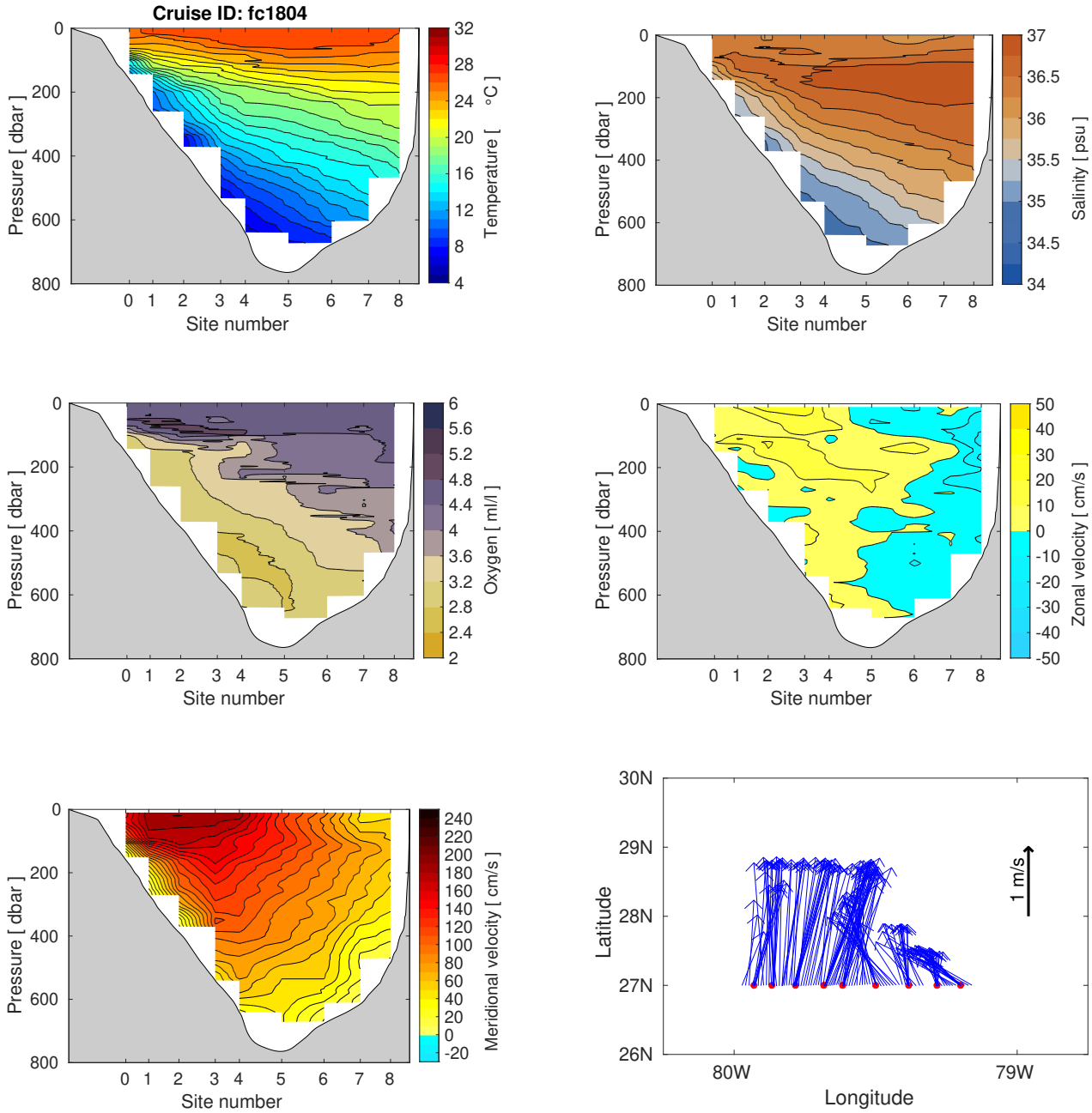

Figure 5: Sections of temperature, salinity, dissolved oxygen (all from CTD), velocity profile (LADCP) and vector velocity map at 50m (SADCP) collected by research vessel. Cruise ID noted above the temperature panel; cruise date are shown in Table 3.

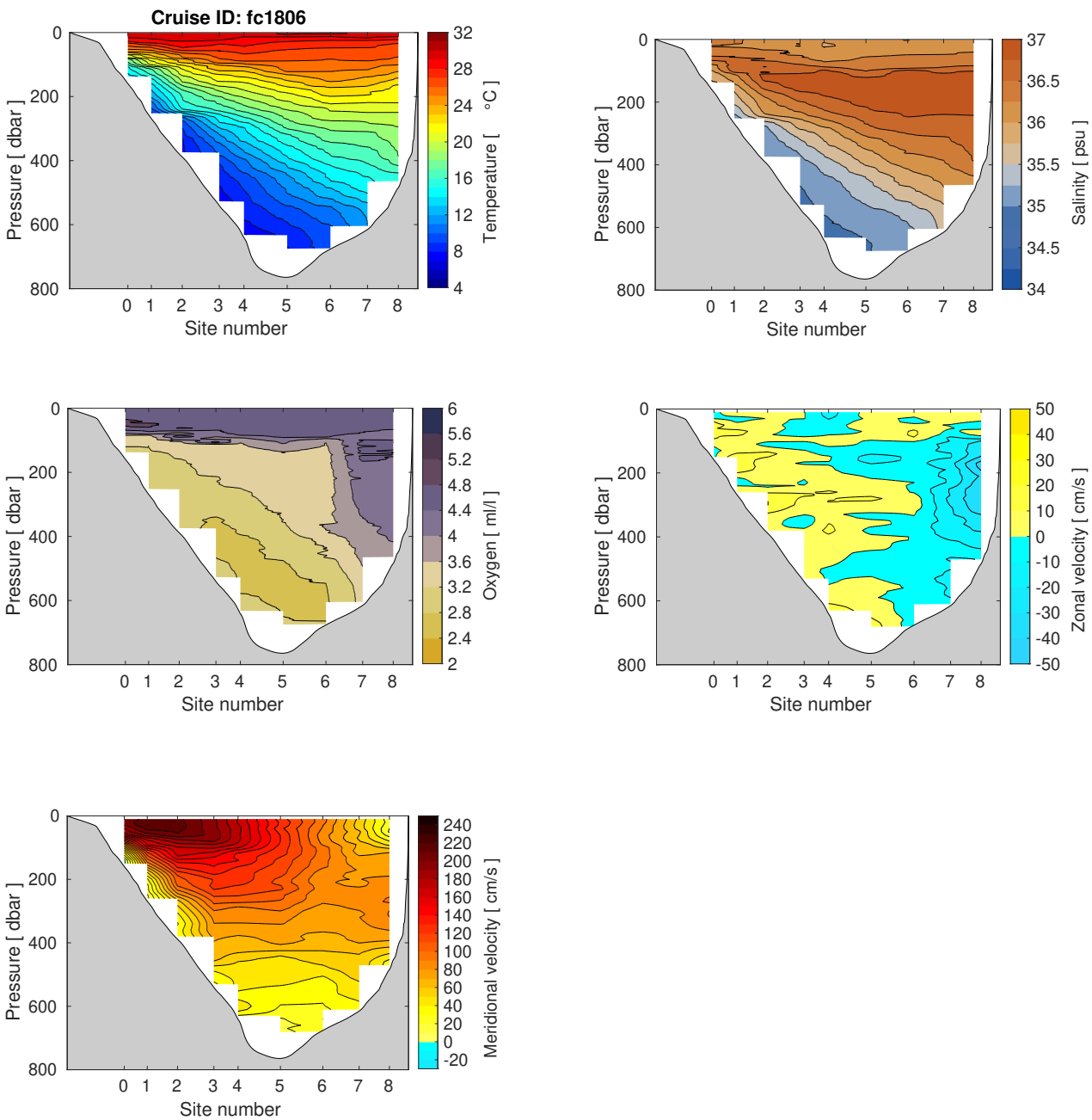

Figure 6: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

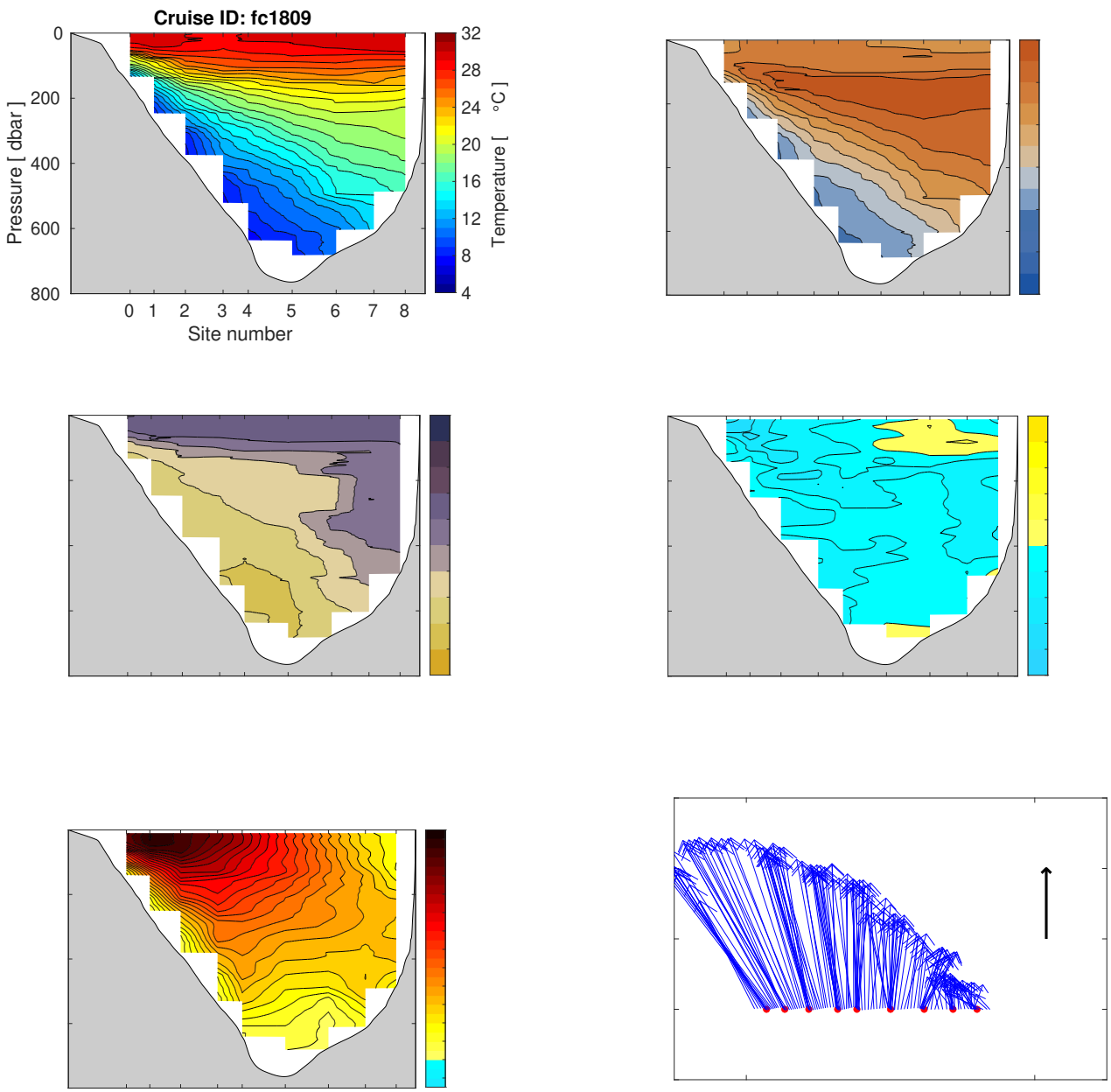

Figure 7: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

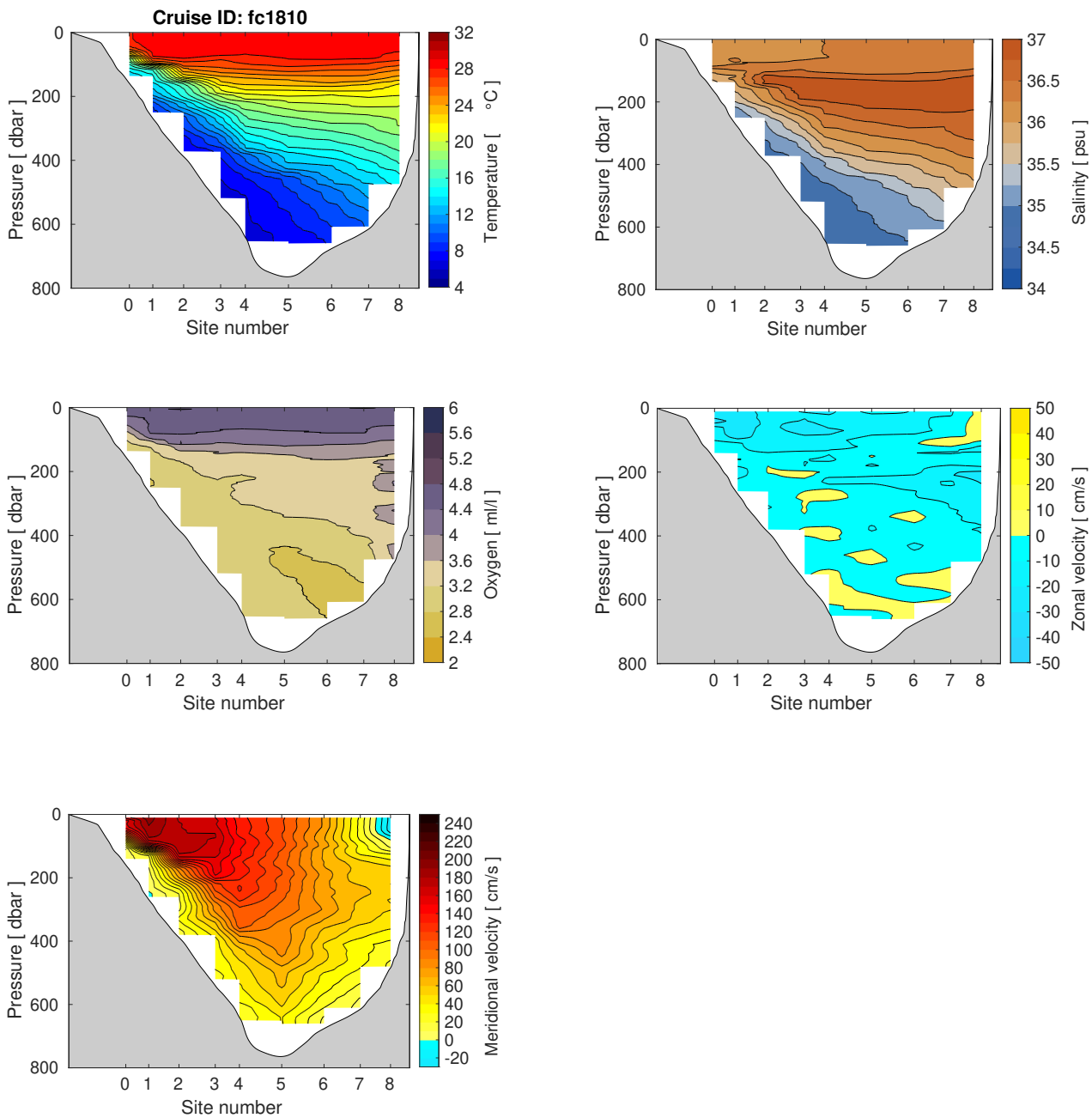

Figure 8: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

5 Issues during the year

This section of the report is designed to list any issues or problems with the data collection during this calendar year which may affect data quality. This information is provided so that users of the data are aware of any limitations or issues with the data. In most years, data from all of these systems is collected successfully with few or no problems, so in most cases this section will be brief. The section is organized following the same order of data systems as in the body of the report.

5.1 Cable observations

No problems arose during the year involving the cable voltage recording system. Estimated transport values are available for all days throughout the year.

5.2 Dropsonde - XBT cruises

Several problems arose during the year involving both the dropsonde and XBT systems. During the March 16, 2018 cruise, the dropsonde float failed to record any data close to the first station, resulted in the failure of the velocity estimate in this station. The Florida Current transport was not estimated for that cruise.

During all the cruises of this year (2018) the XBT system failed to record data in at least two of the stations.

5.3 CTD - LADCP - SADCP cruises

Due to mechanical issues, the R/V F.G Walton Smith was unable to conduct the June 2018 (fc1806) CTD/LADCP survey. The R/V Savannah was used instead. This vessel was equipped with a higher frequency SADCP than that installed aboard the R/V F.G. Walton Smith. As a result, the water column depth penetration of this instrument was less than 100 meters. However, following careful review of the final LADCP profiles for this cruise (which incorporate data from the SADCP), it was determined that these profiles are suitable for scientific analysis.

6 Data availability

The electronic files for the data presented in this report can be obtained from the following sources:

Raw 1-minute voltage data and processed daily cable transports can be obtained from the NOAA National Centers for Environmental Information (NCEI - formerly the NOAA National Oceanographic Data Center). See this web address (http://accession.nodc.noaa.gov/0184924).

The processed daily cable transports, and the dropsonde and LADCP section transports, can be obtained from the project web page (www.aoml.noaa.gov/phod/floridacurrent). See the "Data Access" subpage.

The processed CTD profile, LADCP profile, and SADCP profile data sets can be obtained from the WBTS project web page (www.aoml.noaa.gov/phod/wbts/) under the "Data and Results" subpage. The XBT profiles at full vertical resolution can be found via the same page. The raw dropsonde data is also available at that page and at NOAA-NCEI (http://accession.nodc.noaa.gov/0186254).

Other raw data are available upon request - please email/call the contact people listed on the www.aoml.noaa.gov/phod/floridacurrent web page.

7 Acknowledgements

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Appendix A:

Daily Florida Current transport data

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	31.7	28.6	28.4	31.1	30.9	32.9	37.4	33.3	39.5	35.2	30.2	30.5
2	27.7	29.6	30.0	32.1	31.8	32.7	35.5	33.3	39.7	34.0	31.5	32.3
3	25.5	30.4	29.1	31.9	33.1	32.4	34.3	33.6	38.8	33.4	31.7	33.1
4	24.5	32.1	25.4	32.3	33.8	31.5	33.7	33.5	37.7	33.4	32.1	32.4
5	24.1	33.4	22.4	31.6	35.0	31.6	33.2	32.6	36.2	33.5	32.5	30.8
6	25.5	31.7	22.3	30.4	35.5	31.9	33.0	31.9	35.6	34.0	32.4	29.9
7	27.0	30.8	23.2	31.0	35.0	31.5	33.7	31.2	37.9	33.9	32.5	31.3
8	29.8	31.3	23.2	32.3	33.6	32.4	34.3	31.3	40.5	32.2	32.5	33.1
9	32.8	30.7	23.9	32.6	32.1	33.8	33.6	31.7	41.4	31.3	32.6	33.6
10	33.6	30.8	26.4	32.9	31.3	34.2	32.1	31.8	40.8	31.2	32.3	33.0
11	34.2	32.3	29.4	30.6	30.9	33.3	31.4	31.6	38.5	31.1	30.9	30.4
12	35.9	33.5	30.5	28.1	31.2	32.2	32.0	31.7	37.0	31.6	30.7	28.4
13	37.0	32.5	28.2	28.4	32.0	31.1	32.3	32.4	36.9	32.4	32.7	29.9
14	33.8	30.7	26.2	30.0	33.1	31.2	31.3	33.0	36.7	31.9	34.0	31.8
15	29.4	30.2	25.4	32.4	34.3	32.3	29.7	33.7	37.0	31.8	34.2	32.4
16	28.1	30.7	27.0	34.2	35.6	32.8	29.1	33.5	36.7	32.6	34.1	32.3
17	28.0	31.1	29.4	33.8	36.5	33.3	29.9	34.1	35.9	34.1	33.4	32.7
18	27.0	31.4	31.1	33.5	35.1	34.0	31.1	35.0	36.0	35.1	32.6	32.8
19	27.0	31.5	29.9	35.4	34.3	34.0	32.5	35.7	36.2	35.1	33.3	32.5
20	28.9	30.8	29.5	36.5	34.6	34.5	32.8	35.8	36.4	35.0	33.3	33.4
21	31.4	30.3	31.2	33.3	34.1	34.6	32.5	36.1	36.8	33.9	32.2	34.9
22	32.9	30.1	31.1	32.2	32.7	34.6	32.5	36.6	36.1	31.1	30.0	35.2
23	33.2	31.1	29.9	32.9	31.5	34.8	32.6	36.8	34.2	29.2	28.4	34.5
24	33.3	32.1	29.8	32.7	30.5	35.6	33.4	36.7	32.8	28.9	28.3	35.2
25	31.6	32.4	29.6	33.3	30.4	37.2	34.7	37.9	32.4	28.2	29.2	36.0
26	29.4	31.9	27.3	34.1	31.2	37.6	35.2	36.9	32.8	28.2	29.8	35.4
27	29.7	29.4	26.0	34.2	32.6	36.6	34.7	34.5	34.0	29.2	30.3	34.7
28	31.0	27.4	26.5	33.1	33.5	36.5	33.8	34.1	35.6	29.5	29.9	36.1
29	31.7	–	27.2	32.0	33.7	37.5	33.1	35.2	36.8	29.6	29.5	36.3
30	30.2	–	28.8	31.4	33.2	38.1	32.9	36.7	36.2	29.6	29.5	35.1
31	28.5	–	29.9	–	32.8	–	33.1	38.4	–	29.2	–	35.8

Table 4: Florida Current daily transport estimated using voltage measurements on a telephone cable. Units are Sverdrups (1 Sv = 10^6 m^3 s^{-1}). NaN values indicate no data is available on that day; dashes indicate that day does not exist in that month/year. Table oriented such that each row is the day of the month and each column is the month.

Appendix B:

Dropsonde vertical mean velocities

Sta	Deployed			Surfaced			Mean Velocities	
	Time (GMT)	Lon	Lat	Time (GMT)	Lon	Lat	U cm/s	V cm/s
Cruise date: 2018.03.16								
0	–	–	–	–	–	–	NaN	NaN
1	19: 9:33	-79.8672	26.9996	19:23:33	-79.8662	27.0031	11.69	45.26
2	18:29:27	-79.7834	27.0003	18:50:55	-79.7811	27.0083	17.84	67.94
3	17:36:12	-79.6830	27.0012	18: 5:30	-79.6804	27.0162	13.88	93.42
4	16:39: 3	-79.6167	27.0004	17:15: 8	-79.6154	27.0183	5.87	91.58
5	15:34:28	-79.4997	27.0009	16:16:17	-79.5001	27.0185	-1.88	77.74
6	14:33:39	-79.3833	27.0004	15:11:26	-79.3847	27.0119	-6.33	56.21
7	13:39:30	-79.2836	27.0003	14:14:46	-79.2851	27.0106	-7.10	54.25
8	12:52:43	-79.1993	27.0001	13:20: 0	-79.2009	27.0060	-10.41	39.93
Cruise date: 2018.06.12								
0	11:45:15	-79.9297	27.0006	11:53:32	-79.9301	27.0070	-6.53	142.61
1	12:14: 1	-79.8665	27.0015	12:28: 1	-79.8668	27.0107	-3.61	121.73
2	12:48:32	-79.7832	27.0014	13: 9:26	-79.7835	27.0144	-3.11	114.00
3	13:30:58	-79.6833	27.0029	13:59:34	-79.6838	27.0191	-3.01	104.08
4	14:17:34	-79.6165	27.0008	14:52:14	-79.6173	27.0180	-3.94	91.15
5	15:13: 9	-79.4991	27.0010	15:53: 4	-79.4997	27.0165	-2.90	71.56
6	16:16:12	-79.3824	27.0002	16:53:33	-79.3839	27.0125	-6.17	60.85
7	17:11:50	-79.2853	27.0127	17:45:18	-79.2884	27.0242	-15.37	63.92
8	18: 4:42	-79.2001	27.0000	18:30: 8	-79.2027	27.0072	-17.02	52.69
Cruise date: 2018.07.11								
0	11: 4:41	-79.9301	27.0003	11:14:32	-79.9302	27.0051	-1.65	89.90
1	11:30:48	-79.8660	27.0006	11:47: 8	-79.8658	27.0097	1.87	102.60
2	12: 8:37	-79.7831	27.0006	12:29:27	-79.7828	27.0117	2.60	98.09
3	12:49:33	-79.6830	27.0006	13:20: 8	-79.6830	27.0160	-0.23	92.10
4	13:40: 3	-79.6160	27.0006	14:16:16	-79.6159	27.0183	0.54	89.38
5	14:41:19	-79.4997	27.0005	15:23:27	-79.4997	27.0173	-0.12	73.07
6	15:51: 3	-79.3829	27.0009	16:30:16	-79.3822	27.0158	3.47	69.85
7	17:43:15	-79.2834	27.0003	18:17:58	-79.2839	27.0117	-2.44	60.97
8	17: 1: 5	-79.1996	26.9994	17:28:40	-79.2027	27.0072	-18.66	53.00

Table 5: Tables of dropsonde floats measurements made during the cruises on the indicated dates. Station numbers in left column are as shown in Table 1. Tables include information on where the dropsonde floats were deployed, where they surfaced, and the resulting estimated zonal (U) and meridional (V) vertically averaged velocity.

Sta	Deployed			Surfaced			Mean Velocities	
	Time (GMT)	Lon	Lat	Time (GMT)	Lon	Lat	U cm/s	V cm/s
Cruise date: 2018.08.07								
0	11:44: 8	-79.9300	27.0006	11:52:23	-79.9301	27.0056	-2.78	113.88
1	12:34:50	-79.8665	27.0014	12:49: 9	-79.8665	27.0104	0.03	115.26
2	13:15:51	-79.7824	27.0000	13:37:17	-79.7823	27.0144	0.93	123.05
3	14: 2: 7	-79.6834	27.0010	14:31:21	-79.6834	27.0187	0.05	110.97
4	14:53: 2	-79.6165	27.0008	15:27:39	-79.6162	27.0190	1.79	96.43
5	15:58:26	-79.4999	27.0007	16:39:33	-79.4996	27.0177	1.00	75.87
6	17: 8:56	-79.3829	27.0007	17:47:13	-79.3832	27.0153	-1.71	70.41
7	18: 8:30	-79.2831	27.0004	18:41:34	-79.2842	27.0100	-5.36	53.42
8	19: 4: 8	-79.2002	27.0002	19:31:19	-79.2011	27.0053	-5.58	34.91
Cruise date: 2018.08.14								
0	11: 2:11	-79.9299	27.0003	11: 9: 0	-79.9297	27.0031	5.79	72.07
1	11:27: 4	-79.8662	27.0008	11:39: 4	-79.8656	27.0066	8.56	86.63
2	11:58:51	-79.7829	27.0008	12:16:16	-79.7822	27.0103	7.34	98.35
3	12:37:46	-79.6835	27.0007	13: 2:15	-79.6832	27.0151	2.70	106.97
4	13:18:50	-79.6161	27.0004	13:49: 3	-79.6159	27.0169	1.20	99.17
5	14:17:25	-79.4986	26.9998	14:52:40	-79.4989	27.0137	-1.18	71.57
6	15:21:51	-79.3824	27.0001	15:53: 5	-79.3826	27.0113	-0.89	65.74
7	16:12:22	-79.2830	26.9993	16:40:20	-79.2844	27.0082	-7.64	58.50
8	17: 1:26	-79.1993	27.0001	17:23:11	-79.2011	27.0059	-13.90	48.74
Cruise date: 2018.08.22								
0	10:42: 3	-79.9298	27.0006	10:49:27	-79.9293	27.0054	10.72	117.56
1	11: 7:39	-79.8664	27.0006	11:20:14	-79.8657	27.0079	8.63	105.99
2	11:37:20	-79.7822	27.0008	11:56:56	-79.7812	27.0135	8.18	117.84
3	12:12:59	-79.6824	27.0006	12:41:29	-79.6816	27.0186	4.48	116.14
4	12:57:34	-79.6159	26.9995	13:27:57	-79.6152	27.0173	3.33	107.15
5	13:45:55	-79.4989	26.9992	14:24: 2	-79.4986	27.0164	1.08	82.37
6	14:43:40	-79.3824	26.9982	15:16:43	-79.3829	27.0105	-2.90	67.94
7	15:33:24	-79.2819	26.9980	16: 2:29	-79.2831	27.0059	-6.52	49.87
8	16:18:14	-79.1993	26.9991	16:40:53	-79.2008	27.0045	-11.77	44.79

Table 6: Same as Table 5 for dropsonde measurements during the cruises on the indicated dates.

Sta	Deployed			Surfaced			Mean Velocities	
	Time (GMT)	Lon	Lat	Time (GMT)	Lon	Lat	U cm/s	V cm/s
Cruise date: 2018.08.29								
0	10:50:52	-79.9308	26.9999	10:57:56	-79.9310	27.0049	-5.74	128.37
1	11:21:45	-79.8659	27.0006	11:33:58	-79.8664	27.0077	-6.18	105.42
2	11:57:49	-79.7828	26.9999	12:15:43	-79.7834	27.0119	-6.17	122.73
3	12:46:30	-79.6828	26.9996	13:10:46	-79.6844	27.0146	-11.27	113.38
4	13:34:14	-79.6163	26.9999	14: 3:34	-79.6182	27.0168	-10.18	105.52
5	14:33:54	-79.4996	26.9995	15: 8:58	-79.5008	27.0141	-6.22	76.70
6	15:37:32	-79.3825	27.0004	16: 9:11	-79.3832	27.0110	-3.53	61.56
7	16:34: 2	-79.2826	26.9991	17: 2:51	-79.2841	27.0081	-8.39	57.70
8	17:21:48	-79.1991	26.9994	17:43:17	-79.2004	27.0037	-9.62	37.86
Cruise date: 2018.09.12								
0	10:51:50	-79.9302	27.0001	10:59:24	-79.9301	27.0064	1.49	153.05
1	11:14:54	-79.8663	26.9999	11:27:39	-79.8661	27.0089	3.55	130.60
2	11:42:58	-79.7826	27.0002	12: 1:44	-79.7822	27.0138	2.28	134.09
3	12:17:25	-79.6830	27.0000	12:43:26	-79.6830	27.0164	0.58	116.19
4	13: 0:20	-79.6163	27.0001	13:31:10	-79.6167	27.0148	-2.54	88.02
5	13:50:55	-79.4997	26.9997	14:26:44	-79.5007	27.0130	-4.59	67.72
6	14:46:10	-79.3830	26.9999	15:19:53	-79.3845	27.0106	-7.20	57.81
7	15:39:46	-79.2832	26.9995	16: 9:50	-79.2854	27.0104	-11.99	67.30
8	16:25:31	-79.2000	26.9997	16:48:32	-79.2025	27.0076	-17.65	64.03
Cruise date: 2018.08.19								
0	10:47:57	-79.9298	27.0007	10:55: 1	-79.9300	27.0035	-2.91	70.86
1	11: 7:28	-79.8663	27.0004	11:19:55	-79.8664	27.0045	-1.38	60.19
2	11:36:12	-79.7829	27.0000	11:54:50	-79.7837	27.0097	-7.18	94.94
3	12:11:50	-79.6834	27.0007	12:37: 8	-79.6843	27.0167	-5.59	115.52
4	12:49:37	-79.6164	27.0005	13:20:33	-79.6174	27.0196	-5.05	112.37
5	13:42: 4	-79.5001	27.0005	14:18:55	-79.5013	27.0220	-5.28	106.61
6	14:34:47	-79.3831	27.0002	15: 5:56	-79.3845	27.0170	-8.12	99.13
7	15:20:47	-79.2835	27.0001	15:49: 8	-79.2861	27.0126	-14.83	80.47
8	16: 1: 5	-79.2001	27.0002	16:23: 4	-79.2033	27.0094	-23.90	78.19

Table 7: Same as Table 5 for dropsonde measurements during the cruises on the indicated dates.

Sta	Deployed			Surfaced			Mean Velocities	
	Time (GMT)	Lon	Lat	Time (GMT)	Lon	Lat	U cm/s	V cm/s
Cruise date: 2018.09.27								
0	10:53:34	-79.9302	27.0003	11: 0:58	-79.9301	27.0004	2.76	0.52
1	11:17:20	-79.8669	27.0003	11:29:58	-79.8668	27.0047	-0.19	64.00
2	11:54:53	-79.7838	27.0005	12:13:26	-79.7833	27.0132	5.39	125.47
3	12:36: 1	-79.6835	27.0001	13: 1:47	-79.6831	27.0170	2.89	120.36
4	13:19:10	-79.6168	27.0005	13:49: 0	-79.6165	27.0178	1.79	106.29
5	14:11:45	-79.4994	27.0000	14:47:20	-79.4996	27.0156	-0.67	79.63
6	15:10:57	-79.3829	26.9998	15:42:31	-79.3834	27.0121	-2.38	70.78
7	16: 4:44	-79.2830	26.9997	16:34:32	-79.2847	27.0107	-8.60	68.32
8	16:52:47	-79.1996	27.0007	17:16:22	-79.2018	27.0080	-14.79	56.17
Cruise date: 2018.12.04								
0	11:44:35	-79.9300	27.0004	11:52: 6	-79.9299	27.0047	2.97	104.66
1	12: 8:12	-79.8658	27.0007	12:21: 1	-79.8655	27.0076	2.32	98.43
2	12:35:59	-79.7830	27.0000	12:53:54	-79.7825	27.0097	3.99	99.61
3	13:11: 0	-79.6831	27.0000	13:37:11	-79.6825	27.0135	3.51	94.66
4	13:55:39	-79.6161	27.0001	14:26:33	-79.6155	27.0143	2.84	84.71
5	14:46:40	-79.4998	27.0000	15:23:14	-79.5001	27.0128	-2.15	64.16
6	15:44:45	-79.3829	26.9997	16:15:38	-79.3837	27.0090	-4.48	55.81
7	16:35: 9	-79.2832	26.9994	17: 4:50	-79.2844	27.0071	-7.61	47.94
8	17:23:46	-79.2003	26.9999	17:48:31	-79.2017	27.0052	-10.08	40.51

Table 8: Same as Table 5 for dropsonde measurements during the cruises on the indicated dates.

Appendix C:

XBT temperature profiles

Cruise date: 2018.03.16									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	24.59	25.67	25.76	24.77	25.45	24.77	NaN	NaN
10	NaN	24.14	25.64	25.83	25.94	25.61	25.55	NaN	NaN
20	NaN	24.10	25.60	25.78	25.89	25.59	25.54	NaN	NaN
30	NaN	24.09	25.59	25.72	25.90	25.59	25.54	NaN	NaN
40	NaN	24.04	25.27	25.79	25.90	25.60	25.54	NaN	NaN
50	NaN	24.02	24.54	25.77	25.92	25.59	25.56	NaN	NaN
60	NaN	24.00	24.37	25.77	25.94	25.59	25.55	NaN	NaN
70	NaN	23.10	24.34	25.57	25.90	25.59	25.52	NaN	NaN
80	NaN	21.97	24.25	25.34	25.52	25.63	25.37	NaN	NaN
90	NaN	20.42	23.88	25.04	25.54	25.75	25.14	NaN	NaN
100	NaN	20.08	22.56	24.77	25.50	25.32	25.07	NaN	NaN
110	NaN	19.20	22.11	24.45	25.04	25.17	25.09	NaN	NaN
120	NaN	18.77	21.20	24.29	24.71	24.87	25.02	NaN	NaN
130	NaN	18.18	20.44	23.76	24.37	24.61	24.97	NaN	NaN
140	–	17.78	19.17	23.55	24.03	24.32	24.55	NaN	NaN
150	–	17.31	18.96	22.79	23.47	24.21	24.36	NaN	NaN
160	–	16.84	18.59	21.47	23.08	23.87	23.78	NaN	NaN
170	–	16.30	17.79	20.77	22.54	23.36	23.44	NaN	NaN
180	–	15.97	17.34	20.58	22.16	22.40	22.90	NaN	NaN
190	–	15.66	16.72	19.84	21.56	21.96	22.17	NaN	NaN
200	–	15.03	15.74	18.03	20.90	21.49	21.39	NaN	NaN
210	–	14.22	15.40	16.86	18.90	20.96	20.79	NaN	NaN
220	–	13.82	14.75	16.11	18.27	20.71	20.15	NaN	NaN
230	–	12.96	13.95	15.76	17.31	20.47	19.93	NaN	NaN
240	–	12.55	13.40	15.13	16.48	19.95	19.52	NaN	NaN
250	–	11.95	12.91	14.71	15.70	19.63	19.45	NaN	NaN
260	–	11.26	12.03	14.42	14.90	19.20	19.36	NaN	NaN
270	–	–	11.65	14.02	14.60	18.56	19.10	NaN	NaN
280	–	–	10.96	13.43	14.39	17.71	18.90	NaN	NaN
290	–	–	10.68	13.17	14.29	17.67	18.80	NaN	NaN
300	–	–	10.59	13.07	14.06	17.02	18.72	NaN	NaN
350	–	–	9.74	11.41	12.90	15.51	17.46	NaN	NaN
400	–	–	–	10.49	11.64	14.35	16.33	NaN	NaN
450	–	–	–	9.48	10.43	12.57	14.82	NaN	NaN
500	–	–	–	8.56	9.85	11.09	12.39	NaN	–
550	–	–	–	–	8.25	9.60	9.85	NaN	–
600	–	–	–	–	7.43	8.36	8.26	NaN	–
650	–	–	–	–	6.74	7.30	8.75	–	–
700	–	–	–	–	–	6.71	NaN	–	–
750	–	–	–	–	–	6.48	–	–	–

Table 9: Expendable bathythermograph (XBT) temperature profile data collected during the cruise on the date indicated at the top. Left column indicates the estimated depth in meters from the fall rate. Temperature units are degrees Celsius. NaN indicates missing values due to instrument failure, and dashes indicates depths below bottom for each station.

Cruise date: 2018.06.12									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
[db]	[deg. C]	[psu]	[mll]	[cm/s]	[cm/s]				
0	NaN	NaN	28.80	28.98	28.86	28.71	29.74	29.16	NaN
10	NaN	NaN	28.87	28.90	28.94	28.62	28.87	28.36	NaN
20	NaN	NaN	28.87	28.91	28.92	28.60	28.84	28.00	NaN
30	NaN	NaN	28.75	28.88	28.53	28.24	28.36	27.28	NaN
40	NaN	NaN	27.26	28.12	27.73	27.89	28.12	26.97	NaN
50	NaN	NaN	26.70	27.33	27.36	27.50	27.56	26.76	NaN
60	NaN	NaN	25.80	26.85	26.92	27.22	27.06	26.55	NaN
70	NaN	NaN	23.88	26.40	26.33	26.80	26.86	26.27	NaN
80	NaN	NaN	23.42	25.85	25.64	26.37	26.44	26.18	NaN
90	NaN	NaN	23.17	24.26	25.28	25.79	26.04	25.87	NaN
100	NaN	NaN	22.45	24.04	24.54	24.96	25.59	25.38	NaN
110	NaN	NaN	22.20	23.56	23.64	24.50	25.31	24.88	NaN
120	NaN	NaN	21.68	22.96	22.91	23.80	24.81	24.48	NaN
130	NaN	NaN	20.67	21.94	22.30	23.38	23.37	24.32	NaN
140	–	NaN	20.17	20.98	21.74	22.66	22.64	24.14	NaN
150	–	NaN	19.51	20.51	21.30	22.34	22.12	23.42	NaN
160	–	NaN	18.78	20.01	20.85	21.53	21.53	22.87	NaN
170	–	NaN	18.23	19.33	20.33	20.98	21.10	22.56	NaN
180	–	NaN	17.78	19.11	19.88	20.38	20.79	22.25	NaN
190	–	NaN	17.49	18.75	19.53	20.12	20.50	21.89	NaN
200	–	NaN	17.14	18.12	19.19	19.73	20.30	21.47	NaN
210	–	NaN	16.85	17.76	18.79	19.52	20.09	21.06	NaN
220	–	NaN	16.50	17.46	18.60	19.20	19.88	20.43	NaN
230	–	NaN	15.97	17.31	18.31	18.95	19.53	19.76	NaN
240	–	NaN	15.48	17.12	17.89	18.80	19.37	19.44	NaN
250	–	NaN	15.04	16.80	17.53	18.74	19.06	19.31	NaN
260	–	NaN	13.66	16.36	17.18	18.38	18.79	18.91	NaN
270	–	–	12.31	16.04	16.87	18.00	18.70	18.71	NaN
280	–	–	11.63	15.83	16.61	17.80	18.58	18.51	NaN
290	–	–	11.23	15.72	16.29	17.40	18.36	18.41	NaN
300	–	–	10.47	15.44	16.00	17.24	18.13	18.23	NaN
350	–	–	9.23	13.81	14.37	16.00	17.31	17.36	NaN
400	–	–	–	10.08	12.81	14.46	16.20	16.78	NaN
450	–	–	–	9.22	10.94	13.23	14.64	15.28	NaN
500	–	–	–	8.74	9.82	11.74	13.43	14.10	–
550	–	–	–	–	8.81	10.31	12.46	12.55	–
600	–	–	–	–	8.45	9.64	10.85	11.85	–
650	–	–	–	–	7.46	8.56	10.14	–	–
700	–	–	–	–	–	7.78	NaN	–	–
750	–	–	–	–	–	6.88	–	–	–

Table 10: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.07.11									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	29.88	29.08	29.10	29.86	30.51	30.14	31.17
10	NaN	NaN	29.90	29.19	28.95	29.36	29.56	29.30	29.81
20	NaN	NaN	29.89	29.17	28.95	29.27	29.43	28.91	29.62
30	NaN	NaN	29.90	29.17	28.62	29.17	28.53	28.45	29.26
40	NaN	NaN	29.35	28.81	28.13	28.28	28.39	28.11	28.80
50	NaN	NaN	28.66	28.33	27.72	28.04	28.04	27.55	27.91
60	NaN	NaN	27.76	27.84	27.19	27.88	28.04	26.82	27.21
70	NaN	NaN	26.75	27.22	26.97	27.39	27.84	26.25	27.00
80	NaN	NaN	26.43	26.70	26.68	26.93	27.62	25.64	26.55
90	NaN	NaN	26.07	26.10	26.15	26.64	26.92	25.53	26.18
100	NaN	NaN	24.95	26.03	25.89	26.40	26.26	25.20	25.74
110	NaN	NaN	23.46	24.75	25.35	26.17	25.59	24.78	25.31
120	NaN	NaN	21.73	24.10	24.59	25.99	25.04	24.60	24.88
130	NaN	NaN	21.35	23.56	23.02	25.40	24.59	23.82	24.32
140	–	NaN	21.12	21.60	22.47	24.73	23.94	23.51	23.89
150	–	NaN	19.85	21.08	21.94	24.09	23.88	23.04	23.51
160	–	NaN	18.78	20.79	21.42	23.43	23.73	22.89	23.43
170	–	NaN	18.35	20.51	20.84	22.78	23.55	22.82	23.18
180	–	NaN	17.69	19.88	20.44	22.15	23.17	22.74	22.89
190	–	NaN	17.30	19.22	19.92	21.34	22.58	22.54	22.25
200	–	NaN	16.88	18.56	19.04	20.73	22.12	22.30	21.86
210	–	NaN	16.29	18.02	18.67	20.50	21.52	22.10	21.63
220	–	NaN	15.88	17.44	18.28	19.81	20.76	21.79	21.51
230	–	NaN	15.54	17.14	17.64	19.43	20.13	21.62	21.41
240	–	NaN	14.97	16.71	17.03	18.85	19.63	21.14	21.10
250	–	NaN	14.08	16.16	16.39	18.28	19.20	20.71	20.69
260	–	NaN	13.14	15.72	16.19	17.87	18.88	20.49	20.48
270	–	–	12.10	15.50	15.61	17.59	18.38	19.95	20.07
280	–	–	11.46	14.92	15.48	17.20	18.19	19.77	19.64
290	–	–	11.35	14.65	15.17	16.71	18.04	19.38	19.20
300	–	–	11.28	13.95	14.92	16.14	17.80	19.17	18.97
350	–	–	9.40	11.97	12.91	14.84	15.99	17.96	17.56
400	–	–	–	10.81	11.61	12.63	14.68	16.46	15.86
450	–	–	–	9.18	9.96	11.10	13.56	15.32	14.44
500	–	–	–	7.88	8.93	10.00	11.35	NaN	–
550	–	–	–	–	8.07	9.17	10.22	NaN	–
600	–	–	–	–	7.30	8.42	9.18	NaN	–
650	–	–	–	–	6.46	7.65	8.14	–	–
700	–	–	–	–	–	6.90	NaN	–	–
750	–	–	–	–	–	6.51	–	–	–

Table 11: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.08.07									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	NaN	NaN	30.14	30.47	31.60	31.46	33.10
10	NaN	NaN	NaN	NaN	29.60	29.62	29.54	29.97	29.90
20	NaN	NaN	NaN	NaN	29.57	29.58	29.47	29.87	29.83
30	NaN	NaN	NaN	NaN	29.50	29.57	29.42	29.73	29.78
40	NaN	NaN	NaN	NaN	28.76	28.80	29.39	28.68	29.72
50	NaN	NaN	NaN	NaN	28.35	28.41	28.63	28.13	28.91
60	NaN	NaN	NaN	NaN	27.78	28.14	27.63	27.76	28.83
70	NaN	NaN	NaN	NaN	27.29	27.47	26.82	27.37	27.87
80	NaN	NaN	NaN	NaN	27.14	26.87	26.48	27.06	27.08
90	NaN	NaN	NaN	NaN	26.10	25.95	25.97	26.36	26.31
100	NaN	NaN	NaN	NaN	24.79	25.27	25.65	25.81	26.10
110	NaN	NaN	NaN	NaN	24.06	24.73	25.36	24.78	25.34
120	NaN	NaN	NaN	NaN	23.27	24.35	24.72	23.85	23.87
130	NaN	NaN	NaN	NaN	22.57	23.30	23.99	23.10	23.81
140	–	NaN	NaN	NaN	22.13	22.44	23.11	22.60	23.47
150	–	NaN	NaN	NaN	21.30	21.79	22.45	22.48	22.97
160	–	NaN	NaN	NaN	20.96	21.26	22.15	22.25	22.22
170	–	NaN	NaN	NaN	20.59	20.51	21.55	21.73	22.04
180	–	NaN	NaN	NaN	20.24	20.16	21.30	21.39	21.36
190	–	NaN	NaN	NaN	19.87	19.96	21.18	21.13	21.05
200	–	NaN	NaN	NaN	19.13	19.72	21.10	20.91	20.86
210	–	NaN	NaN	NaN	18.60	19.51	20.64	20.76	20.62
220	–	NaN	NaN	NaN	18.37	19.37	20.12	20.59	20.32
230	–	NaN	NaN	NaN	18.01	19.23	19.94	20.16	20.03
240	–	NaN	NaN	NaN	17.79	19.10	19.84	19.71	19.87
250	–	NaN	NaN	NaN	17.45	19.00	19.81	19.64	19.79
260	–	NaN	NaN	NaN	17.06	18.77	19.77	19.38	19.56
270	–	–	NaN	NaN	16.89	18.34	19.65	19.19	19.47
280	–	–	NaN	NaN	16.64	17.87	19.49	19.06	19.35
290	–	–	NaN	NaN	16.33	17.84	19.33	18.93	19.23
300	–	–	NaN	NaN	15.78	17.67	19.06	18.89	18.93
350	–	–	NaN	NaN	13.60	16.20	17.67	18.04	18.46
400	–	–	–	NaN	11.51	14.31	16.65	16.99	17.56
450	–	–	–	NaN	10.27	11.98	15.57	15.67	16.20
500	–	–	–	NaN	9.14	11.02	14.10	14.60	–
550	–	–	–	–	8.59	10.17	12.77	13.56	–
600	–	–	–	–	8.01	9.34	11.64	12.76	–
650	–	–	–	–	7.29	8.41	10.38	–	–
700	–	–	–	–	–	7.67	9.27	–	–
750	–	–	–	–	–	6.86	–	–	–

Table 12: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.08.14									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	29.67	NaN	29.82	NaN	NaN	NaN	31.58
10	NaN	NaN	29.75	NaN	29.71	NaN	NaN	NaN	29.81
20	NaN	NaN	29.44	NaN	29.36	NaN	NaN	NaN	29.70
30	NaN	NaN	28.77	NaN	29.13	NaN	NaN	NaN	29.38
40	NaN	NaN	28.21	NaN	28.71	NaN	NaN	NaN	28.99
50	NaN	NaN	26.60	NaN	28.03	NaN	NaN	NaN	28.18
60	NaN	NaN	24.25	NaN	27.67	NaN	NaN	NaN	27.77
70	NaN	NaN	22.28	NaN	27.23	NaN	NaN	NaN	27.62
80	NaN	NaN	19.75	NaN	26.14	NaN	NaN	NaN	27.45
90	NaN	NaN	17.99	NaN	25.96	NaN	NaN	NaN	27.53
100	NaN	NaN	16.43	NaN	24.98	NaN	NaN	NaN	27.22
110	NaN	NaN	16.07	NaN	24.02	NaN	NaN	NaN	27.11
120	NaN	NaN	15.81	NaN	22.31	NaN	NaN	NaN	26.96
130	NaN	NaN	15.50	NaN	21.36	NaN	NaN	NaN	26.53
140	–	NaN	15.01	NaN	20.55	NaN	NaN	NaN	25.15
150	–	NaN	14.81	NaN	19.95	NaN	NaN	NaN	24.39
160	–	NaN	14.67	NaN	18.95	NaN	NaN	NaN	23.61
170	–	NaN	14.27	NaN	18.29	NaN	NaN	NaN	22.42
180	–	NaN	13.78	NaN	18.20	NaN	NaN	NaN	21.86
190	–	NaN	12.92	NaN	18.05	NaN	NaN	NaN	21.56
200	–	NaN	12.04	NaN	17.33	NaN	NaN	NaN	20.98
210	–	NaN	11.73	NaN	16.48	NaN	NaN	NaN	20.42
220	–	NaN	11.40	NaN	16.35	NaN	NaN	NaN	20.22
230	–	NaN	10.83	NaN	16.29	NaN	NaN	NaN	20.00
240	–	NaN	9.93	NaN	15.93	NaN	NaN	NaN	19.67
250	–	NaN	9.81	NaN	15.41	NaN	NaN	NaN	19.46
260	–	NaN	9.73	NaN	15.09	NaN	NaN	NaN	19.42
270	–	–	9.73	NaN	14.56	NaN	NaN	NaN	19.23
280	–	–	9.73	NaN	14.24	NaN	NaN	NaN	19.22
290	–	–	9.72	NaN	13.77	NaN	NaN	NaN	19.14
300	–	–	9.64	NaN	13.47	NaN	NaN	NaN	18.87
350	–	–	8.02	NaN	12.42	NaN	NaN	NaN	18.05
400	–	–	–	NaN	10.78	NaN	NaN	NaN	16.90
450	–	–	–	NaN	10.15	NaN	NaN	NaN	15.72
500	–	–	–	NaN	9.32	NaN	NaN	NaN	–
550	–	–	–	–	7.92	NaN	NaN	NaN	–
600	–	–	–	–	7.46	NaN	NaN	NaN	–
650	–	–	–	–	7.41	NaN	NaN	–	–
700	–	–	–	–	–	NaN	NaN	–	–
750	–	–	–	–	–	NaN	–	–	–

Table 13: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.08.22									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	30.53
10	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.76
20	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.70
30	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.63
40	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.20
50	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28.43
60	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28.18
70	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27.66
80	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27.45
90	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27.29
100	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.86
110	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.54
120	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.43
130	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.21
140	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.08
150	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	25.17
160	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24.19
170	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23.53
180	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	22.69
190	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21.82
200	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21.27
210	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.97
220	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.81
230	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.62
240	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.52
250	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.30
260	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.03
270	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.80
280	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.71
290	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.75
300	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.57
350	–	–	NaN	NaN	NaN	NaN	NaN	NaN	18.64
400	–	–	–	NaN	NaN	NaN	NaN	NaN	17.61
450	–	–	–	NaN	NaN	NaN	NaN	NaN	16.34
500	–	–	–	NaN	NaN	NaN	NaN	NaN	–
550	–	–	–	–	NaN	NaN	NaN	NaN	–
600	–	–	–	–	NaN	NaN	NaN	NaN	–
650	–	–	–	–	NaN	NaN	NaN	–	–
700	–	–	–	–	–	NaN	NaN	–	–
750	–	–	–	–	–	NaN	–	–	–

Table 14: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.08.29									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	NaN	29.67	29.75	30.00	29.83	NaN	30.24
10	NaN	NaN	NaN	29.63	29.72	29.80	29.46	NaN	29.81
20	NaN	NaN	NaN	29.41	29.71	29.80	29.44	NaN	29.68
30	NaN	NaN	NaN	29.11	29.24	29.28	28.83	NaN	29.19
40	NaN	NaN	NaN	28.97	28.87	28.96	28.66	NaN	28.68
50	NaN	NaN	NaN	28.61	28.47	28.23	27.92	NaN	28.26
60	NaN	NaN	NaN	28.30	28.14	28.02	27.73	NaN	28.18
70	NaN	NaN	NaN	27.81	27.84	27.72	27.45	NaN	27.40
80	NaN	NaN	NaN	27.59	27.46	27.55	27.37	NaN	26.96
90	NaN	NaN	NaN	27.06	26.96	27.26	26.76	NaN	26.56
100	NaN	NaN	NaN	26.71	26.63	26.96	26.52	NaN	25.96
110	NaN	NaN	NaN	26.09	26.25	26.70	26.12	NaN	25.56
120	NaN	NaN	NaN	25.02	25.85	26.16	25.96	NaN	25.53
130	NaN	NaN	NaN	24.50	25.29	25.44	25.77	NaN	24.99
140	–	NaN	NaN	23.81	24.92	24.99	25.54	NaN	24.13
150	–	NaN	NaN	23.31	24.31	24.55	24.95	NaN	23.82
160	–	NaN	NaN	22.54	23.44	24.00	24.36	NaN	23.49
170	–	NaN	NaN	20.74	22.66	23.19	23.93	NaN	23.34
180	–	NaN	NaN	19.70	21.27	22.56	23.08	NaN	23.10
190	–	NaN	NaN	19.54	20.44	22.00	22.34	NaN	22.48
200	–	NaN	NaN	18.77	20.08	21.26	21.49	NaN	22.31
210	–	NaN	NaN	18.27	19.63	21.14	21.21	NaN	21.75
220	–	NaN	NaN	17.86	19.22	20.45	20.84	NaN	20.75
230	–	NaN	NaN	17.35	18.72	19.95	20.41	NaN	20.37
240	–	NaN	NaN	16.85	18.29	19.59	20.04	NaN	20.06
250	–	NaN	NaN	16.51	17.87	19.29	19.72	NaN	19.89
260	–	NaN	NaN	16.43	17.49	18.87	19.48	NaN	19.76
270	–	–	NaN	16.21	17.04	18.54	19.14	NaN	19.64
280	–	–	NaN	16.06	16.68	18.14	18.89	NaN	19.54
290	–	–	NaN	15.91	16.48	17.79	18.74	NaN	19.37
300	–	–	NaN	15.68	16.30	17.51	18.57	NaN	19.20
350	–	–	NaN	14.22	15.06	16.03	17.15	NaN	18.36
400	–	–	–	12.11	12.91	14.03	15.84	NaN	17.43
450	–	–	–	9.36	10.97	12.19	14.12	NaN	16.15
500	–	–	–	8.05	9.49	11.11	12.53	NaN	–
550	–	–	–	–	8.86	10.75	11.93	NaN	–
600	–	–	–	–	8.19	9.89	11.08	NaN	–
650	–	–	–	–	7.56	8.98	10.78	–	–
700	–	–	–	–	–	8.64	NaN	–	–
750	–	–	–	–	–	8.35	–	–	–

Table 15: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.09.12									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	29.28	29.37	28.93	29.45	29.84	29.85	30.04
10	NaN	NaN	29.27	29.37	29.35	29.14	29.41	29.59	29.47
20	NaN	NaN	29.08	29.12	29.21	29.09	29.08	29.15	29.35
30	NaN	NaN	28.15	28.90	28.99	28.58	28.95	29.08	29.21
40	NaN	NaN	27.52	28.70	28.70	28.27	28.92	28.87	29.05
50	NaN	NaN	27.11	27.93	27.90	27.97	28.09	28.49	29.01
60	NaN	NaN	26.66	27.32	26.95	27.27	27.51	28.32	28.94
70	NaN	NaN	26.21	26.63	26.80	27.06	26.67	27.78	28.29
80	NaN	NaN	25.52	26.30	26.36	26.63	26.01	27.31	27.47
90	NaN	NaN	24.26	25.33	25.46	25.93	25.44	26.53	27.01
100	NaN	NaN	23.90	25.20	24.78	25.45	25.06	25.37	25.17
110	NaN	NaN	23.33	23.27	23.98	24.45	24.40	24.69	24.26
120	NaN	NaN	22.20	21.43	23.20	23.82	23.71	24.12	23.60
130	NaN	NaN	21.17	21.40	22.57	23.13	22.78	23.32	22.67
140	–	NaN	20.54	21.42	21.62	22.08	22.25	22.54	22.15
150	–	NaN	20.14	21.14	21.10	21.68	21.50	22.12	22.04
160	–	NaN	19.80	20.74	20.78	21.22	21.03	21.81	21.82
170	–	NaN	19.11	20.31	20.46	20.90	20.79	21.55	21.78
180	–	NaN	18.54	19.89	20.27	20.58	20.44	21.42	21.43
190	–	NaN	17.74	19.34	20.11	20.20	20.31	21.17	21.38
200	–	NaN	16.02	19.19	19.94	19.93	20.13	20.82	21.30
210	–	NaN	14.62	18.88	19.72	19.62	19.86	20.47	20.63
220	–	NaN	14.11	18.65	19.47	19.04	19.79	20.17	20.30
230	–	NaN	13.84	17.44	17.99	18.71	19.75	19.97	20.12
240	–	NaN	13.27	16.85	17.33	18.49	19.60	19.80	19.94
250	–	NaN	13.13	15.66	17.02	18.31	19.42	19.81	19.85
260	–	NaN	13.03	15.50	16.62	18.22	19.34	19.64	19.79
270	–	–	12.85	15.01	16.54	17.97	19.25	19.42	19.61
280	–	–	12.70	14.58	16.45	17.76	19.13	19.29	19.54
290	–	–	12.33	13.91	16.40	17.55	19.03	19.20	19.51
300	–	–	11.95	13.56	15.92	17.38	18.81	19.04	19.43
350	–	–	8.86	12.89	14.19	17.04	18.18	18.56	19.13
400	–	–	–	10.44	13.47	15.31	17.28	18.07	18.26
450	–	–	–	9.44	10.90	13.61	15.72	17.09	17.97
500	–	–	–	8.85	9.63	12.43	14.25	16.20	–
550	–	–	–	–	9.06	10.89	12.17	13.40	–
600	–	–	–	–	8.71	9.86	11.02	12.92	–
650	–	–	–	–	8.17	9.06	10.73	–	–
700	–	–	–	–	–	8.52	NaN	–	–
750	–	–	–	–	–	8.11	–	–	–

Table 16: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.09.19									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	30.53
10	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.76
20	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.70
30	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.63
40	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29.20
50	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28.43
60	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28.18
70	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27.66
80	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27.45
90	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27.29
100	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.86
110	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.54
120	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.43
130	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.21
140	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26.08
150	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	25.17
160	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24.19
170	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23.53
180	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	22.69
190	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21.82
200	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21.27
210	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.97
220	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.81
230	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.62
240	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.52
250	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.30
260	–	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20.03
270	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.80
280	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.71
290	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.75
300	–	–	NaN	NaN	NaN	NaN	NaN	NaN	19.57
350	–	–	NaN	NaN	NaN	NaN	NaN	NaN	18.64
400	–	–	–	NaN	NaN	NaN	NaN	NaN	17.61
450	–	–	–	NaN	NaN	NaN	NaN	NaN	16.34
500	–	–	–	NaN	NaN	NaN	NaN	NaN	–
550	–	–	–	–	NaN	NaN	NaN	NaN	–
600	–	–	–	–	NaN	NaN	NaN	NaN	–
650	–	–	–	–	NaN	NaN	NaN	–	–
700	–	–	–	–	–	NaN	NaN	–	–
750	–	–	–	–	–	NaN	–	–	–

Table 17: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.09.27									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	NaN	29.67	29.75	30.00	29.83	NaN	30.24
10	NaN	NaN	NaN	29.63	29.72	29.80	29.46	NaN	29.81
20	NaN	NaN	NaN	29.41	29.71	29.80	29.44	NaN	29.68
30	NaN	NaN	NaN	29.11	29.24	29.28	28.83	NaN	29.19
40	NaN	NaN	NaN	28.97	28.87	28.96	28.66	NaN	28.68
50	NaN	NaN	NaN	28.61	28.47	28.23	27.92	NaN	28.26
60	NaN	NaN	NaN	28.30	28.14	28.02	27.73	NaN	28.18
70	NaN	NaN	NaN	27.81	27.84	27.72	27.45	NaN	27.40
80	NaN	NaN	NaN	27.59	27.46	27.55	27.37	NaN	26.96
90	NaN	NaN	NaN	27.06	26.96	27.26	26.76	NaN	26.56
100	NaN	NaN	NaN	26.71	26.63	26.96	26.52	NaN	25.96
110	NaN	NaN	NaN	26.09	26.25	26.70	26.12	NaN	25.56
120	NaN	NaN	NaN	25.02	25.85	26.16	25.96	NaN	25.53
130	NaN	NaN	NaN	24.50	25.29	25.44	25.77	NaN	24.99
140	–	NaN	NaN	23.81	24.92	24.99	25.54	NaN	24.13
150	–	NaN	NaN	23.31	24.31	24.55	24.95	NaN	23.82
160	–	NaN	NaN	22.54	23.44	24.00	24.36	NaN	23.49
170	–	NaN	NaN	20.74	22.66	23.19	23.93	NaN	23.34
180	–	NaN	NaN	19.70	21.27	22.56	23.08	NaN	23.10
190	–	NaN	NaN	19.54	20.44	22.00	22.34	NaN	22.48
200	–	NaN	NaN	18.77	20.08	21.26	21.49	NaN	22.31
210	–	NaN	NaN	18.27	19.63	21.14	21.21	NaN	21.75
220	–	NaN	NaN	17.86	19.22	20.45	20.84	NaN	20.75
230	–	NaN	NaN	17.35	18.72	19.95	20.41	NaN	20.37
240	–	NaN	NaN	16.85	18.29	19.59	20.04	NaN	20.06
250	–	NaN	NaN	16.51	17.87	19.29	19.72	NaN	19.89
260	–	NaN	NaN	16.43	17.49	18.87	19.48	NaN	19.76
270	–	–	NaN	16.21	17.04	18.54	19.14	NaN	19.64
280	–	–	NaN	16.06	16.68	18.14	18.89	NaN	19.54
290	–	–	NaN	15.91	16.48	17.79	18.74	NaN	19.37
300	–	–	NaN	15.68	16.30	17.51	18.57	NaN	19.20
350	–	–	NaN	14.22	15.06	16.03	17.15	NaN	18.36
400	–	–	–	12.11	12.91	14.03	15.84	NaN	17.43
450	–	–	–	9.36	10.97	12.19	14.12	NaN	16.15
500	–	–	–	8.05	9.49	11.11	12.53	NaN	–
550	–	–	–	–	8.86	10.75	11.93	NaN	–
600	–	–	–	–	8.19	9.89	11.08	NaN	–
650	–	–	–	–	7.56	8.98	10.78	–	–
700	–	–	–	–	–	8.64	NaN	–	–
750	–	–	–	–	–	8.35	–	–	–

Table 18: Same as Table 9 for the cruise on the indicated date.

Cruise date: 2018.12.04									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	29.28	29.37	28.93	29.45	29.84	29.85	30.04
10	NaN	NaN	29.27	29.37	29.35	29.14	29.41	29.59	29.47
20	NaN	NaN	29.08	29.12	29.21	29.09	29.08	29.15	29.35
30	NaN	NaN	28.15	28.90	28.99	28.58	28.95	29.08	29.21
40	NaN	NaN	27.52	28.70	28.70	28.27	28.92	28.87	29.05
50	NaN	NaN	27.11	27.93	27.90	27.97	28.09	28.49	29.01
60	NaN	NaN	26.66	27.32	26.95	27.27	27.51	28.32	28.94
70	NaN	NaN	26.21	26.63	26.80	27.06	26.67	27.78	28.29
80	NaN	NaN	25.52	26.30	26.36	26.63	26.01	27.31	27.47
90	NaN	NaN	24.26	25.33	25.46	25.93	25.44	26.53	27.01
100	NaN	NaN	23.90	25.20	24.78	25.45	25.06	25.37	25.17
110	NaN	NaN	23.33	23.27	23.98	24.45	24.40	24.69	24.26
120	NaN	NaN	22.20	21.43	23.20	23.82	23.71	24.12	23.60
130	NaN	NaN	21.17	21.40	22.57	23.13	22.78	23.32	22.67
140	–	NaN	20.54	21.42	21.62	22.08	22.25	22.54	22.15
150	–	NaN	20.14	21.14	21.10	21.68	21.50	22.12	22.04
160	–	NaN	19.80	20.74	20.78	21.22	21.03	21.81	21.82
170	–	NaN	19.11	20.31	20.46	20.90	20.79	21.55	21.78
180	–	NaN	18.54	19.89	20.27	20.58	20.44	21.42	21.43
190	–	NaN	17.74	19.34	20.11	20.20	20.31	21.17	21.38
200	–	NaN	16.02	19.19	19.94	19.93	20.13	20.82	21.30
210	–	NaN	14.62	18.88	19.72	19.62	19.86	20.47	20.63
220	–	NaN	14.11	18.65	19.47	19.04	19.79	20.17	20.30
230	–	NaN	13.84	17.44	17.99	18.71	19.75	19.97	20.12
240	–	NaN	13.27	16.85	17.33	18.49	19.60	19.80	19.94
250	–	NaN	13.13	15.66	17.02	18.31	19.42	19.81	19.85
260	–	NaN	13.03	15.50	16.62	18.22	19.34	19.64	19.79
270	–	–	12.85	15.01	16.54	17.97	19.25	19.42	19.61
280	–	–	12.70	14.58	16.45	17.76	19.13	19.29	19.54
290	–	–	12.33	13.91	16.40	17.55	19.03	19.20	19.51
300	–	–	11.95	13.56	15.92	17.38	18.81	19.04	19.43
350	–	–	8.86	12.89	14.19	17.04	18.18	18.56	19.13
400	–	–	–	10.44	13.47	15.31	17.28	18.07	18.26
450	–	–	–	9.44	10.90	13.61	15.72	17.09	17.97
500	–	–	–	8.85	9.63	12.43	14.25	16.20	–
550	–	–	–	–	9.06	10.89	12.17	13.40	–
600	–	–	–	–	8.71	9.86	11.02	12.92	–
650	–	–	–	–	8.17	9.06	10.73	–	–
700	–	–	–	–	–	8.52	NaN	–	–
750	–	–	–	–	–	8.11	–	–	–

Table 19: Same as Table 9 for the cruise on the indicated date.

Appendix D:

LADCP vertical mean velocities

Sta	Deployed			Surfaced			Mean Velocities	
	Time (GMT)	Lon	Lat	Time (GMT)	Lon	Lat	U cm/s	V cm/s
Cruise date: 2018.04.26								
0	12:15:24	-79.9290	26.9911	12:26:49	-79.9262	26.9985	5.55	97.46
1	11: 7:14	-79.8612	26.9934	11:23:45	-79.8592	27.0053	3.90	99.94
2	9:27:57	-79.7864	26.9915	9:49: 2	-79.7814	27.0042	7.27	113.89
3	7:30:21	-79.6796	26.9905	8: 1:54	-79.6764	27.0088	9.63	121.77
4	5:50: 7	-79.6149	26.9900	6:21:39	-79.6126	27.0164	6.52	107.79
5	3:54: 4	-79.4973	26.9900	4:31: 1	-79.4978	27.0157	1.63	80.82
6	2:15:38	-79.3835	26.9913	2:49:51	-79.3866	27.0109	-2.28	67.39
7	0:52:55	-79.2843	26.9921	1:23:12	-79.2854	27.0040	-3.26	44.95
8	23:28:51	-79.2003	26.9995	23:51:59	-79.2004	27.0038	-12.05	43.71
Cruise date: 2018.06.28								
0	9:49:11	-79.9301	26.9951	10: 2: 2	-79.9281	27.0061	4.63	109.09
1	8:14: 8	-79.8659	26.9946	8:33: 8	-79.8642	27.0133	7.31	106.99
2	6:40:25	-79.7819	26.9945	7: 6:12	-79.7789	27.0207	6.22	114.39
3	4:44:35	-79.6823	26.9941	5:18:40	-79.6765	27.0273	1.73	109.94
4	2:59:53	-79.6178	26.9940	3:41:41	-79.6155	27.0308	2.91	93.68
5	0:54:11	-79.4956	26.9839	1:42:59	-79.4977	27.0191	1.52	70.72
6	23: 0:58	-79.3828	26.9965	23:45:54	-79.3852	27.0220	-1.73	64.53
7	21:31: 1	-79.2834	26.9964	22: 7: 9	-79.2832	27.0100	-10.99	65.50
8	19:52:59	-79.2001	27.0030	20:21:53	-79.1988	27.0098	-22.60	66.01
Cruise date: 2018.09.06								
0	9:15:24	-79.9312	26.9940	9:28:35	-79.9351	27.0072	-17.28	135.86
1	7:58:30	-79.8669	26.9921	8:16:48	-79.8714	27.0119	-16.59	124.06
2	6:23:53	-79.7812	26.9876	6:48:45	-79.7844	27.0136	-15.42	121.17
3	4:37:49	-79.6811	26.9894	5: 9:17	-79.6878	27.0195	-13.52	111.17
4	2:59:17	-79.6111	26.9901	3:32:59	-79.6192	27.0183	-10.58	97.99
5	1:12:31	-79.4970	26.9917	1:49:36	-79.5054	27.0142	-5.90	67.40
6	23:39:37	-79.3871	26.9992	0:13:29	-79.3980	27.0118	-3.02	56.40
7	22:16:33	-79.2810	26.9945	22:48: 7	-79.2906	26.9990	-8.44	56.49
8	21: 2:50	-79.2037	26.9968	21:34: 4	-79.2180	27.0025	-10.00	48.02

Table 20: Tables of vertically averaged velocity determined from lowered acoustic Doppler current profiler (LADCP) data collected during the indicated dates (see Table 3). Station numbers in left column are as shown in Table 1. Tables include information on where the LADCP cast was started ("Deployed"), where it ended ("Surfaced"), and the resulting estimated zonal (U) and meridional (V) vertically average velocity.

Sta	Deployed			Surfaced			Mean Velocities	
	Time (GMT)	Lon	Lat	Time (GMT)	Lon	Lat	U cm/s	V cm/s
Cruise date: 2018.10.24								
0	10: 3:58	-79.9293	26.9991	10:14:33	-79.9323	27.0020	-15.66	79.84
1	9:12: 7	-79.8643	26.9906	9:27: 4	-79.8693	27.0018	-15.01	76.89
2	7:56:43	-79.7819	26.9860	8:18:57	-79.7894	27.0023	-8.78	89.74
3	6:37:23	-79.6880	26.9861	7: 4:23	-79.6894	27.0052	-6.72	99.37
4	5:15:46	-79.6073	26.9896	5:47:42	-79.6116	27.0115	-5.20	91.35
5	3:34:38	-79.4970	26.9953	4:11:30	-79.5059	27.0069	-5.47	80.95
6	2: 6: 2	-79.3825	26.9982	2:39:42	-79.3888	27.0060	-4.93	56.14
7	0:42:28	-79.2845	26.9961	1:12:23	-79.2878	27.0010	-5.89	38.08
8	23:23: 3	-79.2010	26.9999	23:49:35	-79.2022	26.9999	-8.11	28.36

Table 21: Same as Table 20 for LADCP data collected on the indicated dates.

Appendix E:

CTD and LADCP profiles

Cruise ID: fc1804. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.51	36.48	4.68	NaN	NaN
10	25.51	36.48	4.68	2.1	146.4
20	25.51	36.48	4.69	5.7	146.7
30	25.10	36.46	4.74	7.6	151.8
40	24.61	36.46	4.77	6.9	151.2
50	23.98	36.45	4.80	7.7	144.2
60	23.14	36.47	4.73	9.8	129.7
70	21.90	36.48	4.55	8.4	119.9
80	19.76	36.33	4.02	6.5	113.2
90	17.70	36.13	3.65	0.8	102.0
100	15.19	35.91	3.27	-0.8	82.1
110	14.08	35.83	3.00	2.6	53.7
120	13.41	35.73	2.95	9.7	44.3
130	12.28	35.57	2.94	9.4	33.0
140	11.50	35.47	2.92	3.5	21.9
150	NaN	NaN	NaN	3.5	21.8

Table 22: Profiles of temperature, salinity, dissolved oxygen, zonal (U) and meridional (V) velocity observed during the cruise ID and station indicated with the combined CTD and LADCP. NaN indicates missing values.

Cruise ID: fc1804. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.51	36.33	4.58	NaN	NaN
10	26.52	36.33	4.58	11.9	186.3
20	25.78	36.41	4.66	7.3	188.3
30	24.70	36.40	4.77	4.4	185.1
40	24.31	36.43	4.80	2.3	184.6
50	23.86	36.47	4.87	2.1	183.4
60	23.43	36.51	4.83	5.0	182.0
70	23.01	36.52	4.79	6.5	178.5
80	22.30	36.54	4.72	6.5	175.6
90	21.59	36.53	4.48	5.1	171.3
100	20.57	36.51	3.74	13.8	160.0
110	19.81	36.49	3.49	20.9	141.2
120	19.33	36.45	3.39	15.9	124.5
130	18.09	36.30	3.31	5.0	110.7
140	16.58	36.13	3.24	-2.6	99.5
150	15.24	35.99	3.07	1.3	84.0
160	13.53	35.74	2.99	0.8	68.1
170	12.51	35.59	2.94	-0.9	55.8
180	12.08	35.53	2.91	-1.6	49.0
190	11.64	35.47	2.90	-1.1	41.5
200	10.83	35.36	2.90	-0.5	35.3
210	10.63	35.35	2.92	-0.4	27.6
220	10.43	35.32	2.93	1.7	21.9
230	10.30	35.31	2.92	2.2	17.6
240	10.28	35.30	2.91	2.1	12.5
250	10.19	35.29	2.91	0.9	10.2
260	9.35	35.17	2.88	-0.8	3.2
270	NaN	NaN	NaN	-2.6	0.8

Table 23: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.71	36.24	4.55	NaN	NaN
10	26.71	36.24	4.56	27.2	187.3
20	26.64	36.27	4.58	23.2	190.4
30	25.57	36.42	4.68	16.4	185.8
40	24.97	36.50	4.53	12.7	184.4
50	24.24	36.42	4.78	10.1	182.9
60	24.04	36.43	4.80	9.5	179.3
70	23.67	36.49	4.86	7.7	176.5
80	23.22	36.52	4.82	5.5	173.9
90	22.40	36.52	4.77	2.5	175.5
100	21.84	36.54	4.49	6.3	175.1
110	21.27	36.54	4.31	15.7	171.4
120	20.72	36.53	3.86	21.1	162.0
130	19.80	36.49	3.39	20.9	152.9
140	19.33	36.46	3.36	20.0	143.1
150	18.87	36.45	3.12	18.0	132.6
160	18.29	36.41	3.11	15.4	122.0
170	17.48	36.32	3.10	10.8	119.8
180	16.29	36.15	3.10	6.0	115.8
190	15.33	36.01	3.06	0.6	113.3
200	14.24	35.86	3.03	-0.9	109.7
210	13.97	35.82	3.03	-2.2	104.0
220	13.76	35.79	3.01	-3.3	100.2
230	13.54	35.75	2.98	-2.5	100.7
240	13.21	35.70	2.96	0.5	99.5
250	12.91	35.65	2.95	4.8	95.8
260	12.46	35.58	2.92	9.1	88.0
270	12.29	35.56	2.91	10.1	79.6
280	12.09	35.53	2.90	8.5	75.0
290	11.90	35.50	2.89	5.7	70.6
300	11.14	35.39	2.87	4.3	65.0
350	7.28	34.96	3.05	-3.2	12.9

Table 24: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.64	36.29	4.58	NaN	NaN
10	26.66	36.29	4.57	29.5	184.6
20	26.66	36.29	4.58	29.5	184.6
30	26.60	36.31	4.59	25.9	184.4
40	26.05	36.42	4.63	18.7	181.3
50	25.91	36.58	4.29	13.8	180.2
60	25.47	36.57	4.28	11.7	178.3
70	24.54	36.41	4.73	13.7	175.5
80	24.04	36.43	4.79	16.1	172.2
90	23.54	36.47	4.82	15.8	167.0
100	23.10	36.52	4.71	8.6	164.4
110	22.16	36.56	4.29	8.5	163.4
120	21.20	36.55	4.09	12.6	159.1
130	20.85	36.59	3.95	11.1	159.0
140	20.27	36.63	3.75	12.5	158.7
150	20.05	36.76	3.35	16.0	156.5
160	19.57	36.70	3.40	17.3	154.1
170	19.15	36.65	3.40	18.2	150.5
180	18.62	36.59	3.52	19.3	147.5
190	18.16	36.52	3.59	18.9	144.7
200	17.92	36.49	3.58	16.7	141.1
210	17.59	36.43	3.56	15.5	138.3
220	17.12	36.36	3.55	14.6	135.1
230	17.04	36.35	3.51	12.8	132.1
240	16.77	36.30	3.50	9.3	128.7
250	16.33	36.22	3.43	4.8	126.4
260	16.14	36.19	3.40	0.0	126.2
270	15.78	36.12	3.35	-1.3	125.3
280	15.45	36.07	3.30	0.9	123.0
290	15.12	36.01	3.27	4.8	119.6
300	14.51	35.90	3.21	5.9	115.2
350	13.12	35.67	2.98	-0.6	111.5
400	11.12	35.36	2.82	11.6	93.9
450	9.31	35.11	2.76	6.9	78.9
500	7.94	35.00	2.94	-0.7	55.5

Table 25: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.69	36.32	4.58	NaN	NaN
10	26.70	36.32	4.58	2.7	184.5
20	26.70	36.32	4.59	2.8	184.5
30	26.64	36.32	4.60	6.2	180.5
40	26.35	36.34	4.62	7.7	173.4
50	26.20	36.42	4.56	9.9	169.3
60	25.77	36.46	4.50	14.0	167.8
70	24.94	36.42	4.74	16.3	160.4
80	24.03	36.42	4.74	14.3	153.2
90	23.85	36.47	4.84	4.1	147.8
100	23.55	36.52	4.82	-0.6	145.7
110	23.55	36.88	3.68	-1.8	145.9
120	22.88	36.91	3.69	-1.2	149.2
130	22.24	36.94	3.50	1.9	148.6
140	21.69	36.91	3.46	3.9	144.6
150	21.07	36.87	3.45	7.2	140.6
160	20.53	36.82	3.48	8.7	135.2
170	19.88	36.73	3.63	8.2	130.3
180	19.05	36.62	3.86	9.2	126.7
190	18.70	36.59	3.76	10.5	126.2
200	18.43	36.56	3.98	11.0	125.1
210	18.22	36.55	4.04	11.8	123.6
220	18.12	36.54	4.07	12.3	122.5
230	18.03	36.53	4.03	11.0	120.0
240	17.73	36.46	3.58	9.2	118.8
250	17.55	36.43	3.59	6.6	119.0
260	17.40	36.40	3.57	4.0	118.8
270	17.14	36.36	3.52	1.5	117.3
280	16.73	36.29	3.50	0.5	113.5
290	16.31	36.22	3.45	0.3	112.3
300	16.08	36.18	3.40	-0.8	112.4
350	14.34	35.88	3.17	6.7	107.5
400	12.65	35.60	2.92	8.2	97.7
450	10.97	35.34	2.72	5.7	84.2
500	9.51	35.14	2.76	7.0	75.7
550	8.13	34.99	2.83	2.8	64.9
600	7.31	34.94	2.99	10.8	48.4

Table 26: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.49	36.28	4.58	NaN	NaN
10	26.49	36.28	4.61	-3.1	125.3
20	26.42	36.29	4.63	-3.1	125.3
30	26.36	36.29	4.63	-6.7	121.7
40	26.30	36.29	4.63	-7.9	122.1
50	26.22	36.29	4.63	-10.4	122.8
60	26.20	36.30	4.63	-11.3	125.4
70	25.85	36.41	4.50	-4.7	128.3
80	25.62	36.57	4.60	0.6	131.5
90	25.11	36.67	4.47	1.3	131.9
100	24.72	36.84	4.41	3.9	131.0
110	24.19	36.83	4.27	7.4	127.9
120	23.49	36.94	4.24	8.6	123.5
130	23.02	36.95	4.21	7.4	119.8
140	22.40	36.92	4.18	9.1	120.0
150	21.98	36.89	4.13	8.5	118.5
160	21.86	36.89	4.11	3.9	115.0
170	21.11	36.83	4.16	1.1	111.0
180	20.53	36.77	4.08	1.8	109.7
190	19.68	36.69	4.01	4.7	110.0
200	19.29	36.66	3.96	7.1	106.5
210	18.95	36.63	4.00	10.6	102.4
220	18.65	36.60	4.02	13.4	101.6
230	18.38	36.55	3.58	13.5	98.9
240	18.13	36.52	3.59	10.7	98.0
250	17.97	36.49	3.60	11.0	100.3
260	17.66	36.45	3.57	11.4	100.8
270	17.40	36.40	3.58	10.8	96.9
280	17.16	36.36	3.56	9.9	94.8
290	17.03	36.34	3.53	8.1	92.6
300	16.77	36.30	3.51	4.8	90.9
350	15.47	36.07	3.32	-3.4	82.9
400	14.44	35.89	3.20	-0.5	84.9
450	12.55	35.58	2.93	-2.0	70.5
500	11.12	35.36	2.82	-0.8	56.8
550	10.21	35.23	2.76	-1.4	49.0
600	8.99	35.07	2.78	-1.0	44.8
650	8.20	35.00	2.80	2.8	41.3
700	7.26	34.93	2.97	2.9	41.5
750	NaN	NaN	NaN	1.0	35.5

Table 27: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.63	36.21	4.60	NaN	NaN
10	26.63	36.21	4.61	-13.1	95.2
20	26.59	36.21	4.62	-12.2	91.5
30	26.57	36.26	4.62	-3.2	86.8
40	26.46	36.28	4.62	-2.5	87.1
50	26.28	36.29	4.64	-4.6	90.0
60	25.89	36.33	4.61	-8.3	88.6
70	25.66	36.53	4.57	-9.2	90.2
80	25.37	36.65	4.58	-9.2	92.8
90	24.99	36.73	4.47	-7.6	96.9
100	24.55	36.82	4.34	-2.5	100.2
110	24.17	36.93	4.32	6.0	102.0
120	23.56	36.95	4.25	9.6	98.5
130	23.19	36.98	4.32	12.0	94.7
140	22.92	36.98	4.30	13.7	92.3
150	22.20	36.93	4.27	11.9	93.2
160	22.09	36.92	4.28	9.2	93.9
170	21.62	36.88	4.28	7.3	90.6
180	21.38	36.86	4.28	5.5	88.2
190	21.21	36.84	4.28	2.7	86.4
200	20.75	36.80	4.26	2.1	87.8
210	20.29	36.75	4.26	4.0	88.4
220	19.94	36.72	4.00	5.1	84.4
230	19.07	36.63	4.04	2.3	85.3
240	18.78	36.61	3.83	-0.0	85.6
250	18.65	36.59	3.65	-1.8	83.7
260	18.51	36.59	4.10	-3.1	80.2
270	18.36	36.57	4.10	-3.3	78.0
280	18.16	36.54	4.10	-1.5	74.6
290	17.85	36.48	3.81	-0.8	71.3
300	17.77	36.47	3.84	-2.1	72.4
350	16.42	36.27	3.51	1.6	76.0
400	15.10	36.02	3.36	0.7	62.7
450	14.50	35.95	3.47	-7.8	58.0
500	13.38	35.77	3.32	-11.2	54.6
550	12.05	35.54	3.11	-4.6	46.2
600	11.23	35.40	2.94	-6.8	32.5
650	9.10	35.12	2.88	-0.8	13.0

Table 28: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.40	36.21	4.61	NaN	NaN
10	26.48	36.25	4.62	7.3	48.7
20	26.49	36.29	4.63	2.8	49.2
30	26.42	36.29	4.62	2.0	47.1
40	26.30	36.46	4.65	-0.7	49.0
50	26.03	36.52	4.64	-3.3	54.2
60	25.78	36.63	4.63	-3.1	57.5
70	25.30	36.64	4.46	-5.1	59.3
80	24.97	36.69	4.29	-10.3	63.5
90	24.80	36.84	4.41	-10.3	66.0
100	24.44	36.88	4.32	-8.4	71.0
110	24.23	36.89	4.30	-9.6	77.9
120	24.02	36.93	4.28	-3.8	80.1
130	23.38	37.00	4.29	3.2	80.1
140	22.89	36.97	4.24	4.6	74.9
150	22.58	36.96	4.27	5.9	72.5
160	22.28	36.94	4.29	4.9	71.4
170	21.84	36.91	4.27	0.2	71.4
180	21.76	36.90	4.27	-3.3	69.7
190	21.41	36.87	4.26	-3.7	69.9
200	21.05	36.83	4.26	-2.3	69.4
210	20.83	36.81	4.25	-3.7	65.8
220	20.48	36.78	4.24	-8.5	66.3
230	20.18	36.74	4.23	-10.7	64.3
240	20.01	36.73	3.98	-12.5	62.1
250	19.86	36.72	3.99	-12.0	61.9
260	19.80	36.71	3.92	-8.4	63.5
270	19.59	36.70	3.67	-1.9	64.5
280	19.19	36.66	3.62	1.3	60.7
290	18.75	36.60	3.61	-3.6	57.6
300	18.71	36.59	3.61	-8.6	57.0
350	17.30	36.37	3.60	-2.9	48.9
400	16.04	36.20	3.75	-0.8	34.3
450	14.83	35.98	3.32	-0.3	20.7
500	14.34	35.89	3.26	-4.4	19.2
550	13.08	35.70	3.16	-4.8	15.7
600	12.04	35.53	3.03	-2.5	4.4

Table 29: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1804. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.48	36.32	4.61	NaN	NaN
10	26.21	36.38	4.63	-5.4	43.0
20	25.94	36.41	4.66	-8.6	45.0
30	25.87	36.42	4.66	-13.7	50.4
40	25.82	36.45	4.66	-15.4	51.7
50	25.62	36.53	4.67	-14.9	54.7
60	25.45	36.56	4.68	-15.0	58.5
70	25.24	36.60	4.69	-16.6	60.0
80	24.68	36.71	4.74	-16.5	59.3
90	24.26	36.77	4.76	-21.1	58.4
100	24.11	36.82	4.73	-21.5	60.3
110	23.96	36.86	4.62	-22.7	63.0
120	23.61	36.88	4.53	-24.2	64.8
130	23.20	36.88	4.46	-22.1	65.7
140	22.94	36.87	4.49	-15.7	65.8
150	22.52	36.86	4.48	-15.7	62.6
160	22.38	36.86	4.47	-22.1	59.0
170	22.15	36.84	4.54	-23.1	57.1
180	21.75	36.83	4.64	-19.5	55.9
190	21.29	36.82	4.21	-14.8	53.5
200	21.01	36.82	4.12	-10.0	49.4
210	20.75	36.78	4.13	-10.1	48.7
220	20.39	36.74	4.18	-11.4	49.5
230	20.16	36.72	4.17	-10.6	50.1
240	19.97	36.70	4.39	-14.0	50.2
250	19.82	36.69	4.37	-15.9	49.2
260	19.63	36.67	4.36	-14.0	47.4
270	19.42	36.66	3.76	-11.7	45.3
280	19.39	36.66	3.80	-9.2	43.1
290	19.35	36.66	3.76	-6.8	41.4
300	19.28	36.65	3.73	-5.2	40.8
350	18.27	36.54	3.96	-4.7	32.3
400	17.10	36.38	4.03	-8.6	26.1
450	16.02	36.20	3.86	-8.4	16.7

Table 30: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.44	36.39	4.47	NaN	NaN
10	29.45	36.39	4.47	-1.5	201.2
20	28.49	36.25	4.55	-1.8	204.2
30	27.88	36.37	4.65	-0.3	199.5
40	26.36	36.44	4.83	10.3	189.1
50	25.17	36.48	4.81	13.3	185.9
60	23.94	36.53	4.77	10.6	171.4
70	20.77	36.36	4.21	11.9	143.6
80	19.31	36.23	3.85	10.3	116.6
90	17.16	36.08	3.52	11.0	87.0
100	16.26	35.98	3.44	7.8	65.6
110	14.80	35.84	3.26	4.1	44.3
120	14.45	35.80	3.20	-0.7	24.9
130	13.88	35.75	3.14	-2.0	11.7
140	NaN	NaN	NaN	-1.8	-4.1
150	NaN	NaN	NaN	-1.6	-4.5

Table 31: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.40	36.26	4.46	NaN	NaN
10	29.41	36.26	4.47	4.6	214.6
20	29.00	36.24	4.53	2.2	219.1
30	28.29	36.31	4.63	-3.8	220.0
40	26.99	36.39	4.77	-1.4	213.6
50	25.67	36.45	4.87	5.8	205.1
60	24.68	36.52	4.79	7.0	194.8
70	23.15	36.59	4.49	13.4	177.9
80	22.01	36.60	4.15	12.3	166.8
90	20.76	36.67	3.39	5.2	162.4
100	20.17	36.62	3.34	7.1	144.2
110	17.76	36.30	3.28	8.0	125.5
120	16.65	36.14	3.20	8.0	114.5
130	16.15	36.06	3.18	4.1	105.3
140	15.23	36.01	3.05	11.4	96.0
150	14.47	35.88	3.00	18.5	85.9
160	13.89	35.80	2.97	18.9	73.8
170	13.39	35.74	2.97	18.9	59.8
180	12.94	35.68	2.96	18.4	48.0
190	12.55	35.62	2.95	16.1	39.7
200	12.14	35.57	2.95	9.6	27.9
210	11.48	35.47	2.93	2.0	22.2
220	10.62	35.36	2.90	-2.3	16.9
230	10.19	35.30	2.88	-3.8	16.9
240	9.67	35.22	2.87	-0.1	15.3
250	8.95	35.13	2.85	4.4	8.2
260	NaN	NaN	NaN	5.8	7.3

Table 32: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.43	36.24	4.44	NaN	NaN
10	29.44	36.24	4.45	6.8	213.4
20	29.36	36.23	4.45	3.1	213.9
30	28.83	36.22	4.52	0.4	215.9
40	28.60	36.28	4.56	6.2	214.4
50	27.81	36.33	4.61	5.2	211.1
60	26.52	36.49	4.42	6.1	208.7
70	25.14	36.57	4.41	3.6	194.8
80	24.74	36.73	3.84	0.8	185.5
90	23.38	36.60	4.51	4.7	177.4
100	22.36	36.75	3.79	1.7	169.1
110	21.21	36.74	3.52	-4.7	165.5
120	20.71	36.83	3.44	1.2	163.7
130	20.32	36.78	3.41	8.2	158.4
140	19.54	36.65	3.31	12.6	146.9
150	19.16	36.60	3.26	10.2	137.2
160	18.45	36.49	3.18	3.6	132.2
170	17.69	36.38	3.15	2.5	124.6
180	16.95	36.28	3.14	4.3	115.4
190	16.33	36.20	3.11	4.3	109.3
200	16.06	36.16	3.10	3.0	107.1
210	15.98	36.15	3.09	4.0	105.2
220	15.73	36.10	3.08	5.6	100.7
230	15.39	36.04	3.06	4.1	93.8
240	14.90	35.97	3.03	-0.7	84.4
250	13.10	35.70	3.00	0.8	75.4
260	11.99	35.54	2.95	8.6	64.2
270	10.59	35.33	2.87	14.7	56.3
280	9.61	35.19	2.82	18.7	51.1
290	9.33	35.16	2.80	20.1	46.6
300	8.96	35.11	2.82	20.2	42.5
350	7.88	35.01	2.92	4.6	31.2

Table 33: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.43	36.19	4.44	NaN	NaN
10	29.20	36.15	4.46	0.5	191.9
20	29.16	36.25	4.50	0.5	193.1
30	28.62	36.24	4.56	0.3	192.7
40	27.85	36.23	4.69	-5.2	192.7
50	27.27	36.22	4.62	-7.9	195.6
60	26.85	36.30	4.51	-6.2	196.9
70	26.34	36.39	4.38	-6.8	195.9
80	26.04	36.52	4.23	-5.2	190.9
90	25.45	36.67	3.96	2.5	180.3
100	24.23	36.61	4.28	1.2	171.9
110	23.79	36.79	3.90	-6.0	163.2
120	22.90	36.93	3.52	-5.8	155.8
130	22.17	36.93	3.46	0.5	150.0
140	21.46	36.90	3.43	2.6	145.5
150	21.19	36.88	3.45	2.0	141.4
160	20.52	36.80	3.39	0.9	140.0
170	19.78	36.72	3.38	-0.8	137.8
180	19.18	36.64	3.33	1.4	133.4
190	18.68	36.57	3.32	6.2	126.2
200	17.98	36.47	3.30	2.8	120.6
210	17.58	36.41	3.27	0.7	120.7
220	17.11	36.33	3.15	0.0	122.6
230	16.75	36.27	3.19	-0.9	120.8
240	16.23	36.19	3.15	0.2	116.5
250	15.59	36.08	3.08	3.7	111.8
260	14.77	35.95	2.99	9.3	107.3
270	14.27	35.87	2.98	10.8	102.4
280	14.02	35.83	2.96	8.2	99.1
290	13.32	35.71	2.89	6.8	94.0
300	12.93	35.65	2.88	6.3	89.4
350	10.80	35.32	2.73	-6.0	79.1
400	9.49	35.14	2.69	4.9	69.0
450	8.46	35.02	2.78	6.8	63.3
500	7.78	34.97	2.88	3.2	37.1

Table 34: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.41	36.02	4.47	NaN	NaN
10	29.23	36.00	4.46	-14.4	169.4
20	28.84	35.97	4.49	-13.8	168.8
30	28.28	36.03	4.54	-10.5	171.7
40	28.07	36.04	4.54	-8.2	173.9
50	27.53	36.12	4.60	-4.5	173.0
60	27.24	36.16	4.57	-2.8	171.9
70	26.84	36.24	4.49	-3.7	173.0
80	26.45	36.31	4.48	-0.3	171.3
90	25.90	36.59	4.16	3.1	167.9
100	24.85	36.79	3.78	4.3	160.6
110	23.71	36.91	3.58	4.0	146.2
120	23.02	36.95	3.51	-1.3	137.9
130	22.44	36.94	3.49	-5.8	137.9
140	21.86	36.92	3.46	-2.7	140.5
150	21.29	36.89	3.43	1.1	136.7
160	20.75	36.83	3.40	0.7	130.1
170	20.39	36.79	3.37	-0.9	125.6
180	19.98	36.75	3.38	0.7	123.5
190	19.61	36.69	3.35	1.4	125.5
200	19.17	36.64	3.36	3.2	127.4
210	18.71	36.60	3.50	7.7	124.5
220	18.28	36.53	3.45	7.5	119.6
230	17.90	36.47	3.39	5.4	117.4
240	17.45	36.40	3.35	4.0	115.9
250	16.82	36.29	3.20	8.9	110.9
260	16.27	36.19	3.14	10.8	106.5
270	15.58	36.08	3.10	8.9	102.4
280	15.06	35.99	3.01	9.7	95.1
290	14.31	35.87	2.97	10.2	87.7
300	13.90	35.81	2.96	5.2	85.3
350	12.62	35.60	2.93	7.7	77.5
400	10.82	35.32	2.74	7.4	62.3
450	9.66	35.16	2.75	4.6	52.0
500	8.87	35.06	2.76	-1.4	44.4
550	8.37	35.01	2.77	0.1	40.3
600	7.80	34.95	2.84	4.7	44.8

Table 35: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.20	36.21	4.45	NaN	NaN
10	29.36	36.16	4.47	5.4	124.9
20	28.49	36.07	4.56	6.0	128.2
30	27.89	36.12	4.67	2.6	127.3
40	27.54	36.15	4.65	6.2	122.6
50	27.14	36.21	4.57	6.3	126.4
60	26.80	36.27	4.48	3.0	129.6
70	26.49	36.29	4.63	1.1	130.0
80	26.24	36.30	4.56	1.1	130.0
90	25.94	36.35	4.44	3.4	128.7
100	25.50	36.49	4.17	-1.1	125.8
110	25.34	36.61	4.01	-2.1	124.7
120	25.15	36.71	3.91	-1.7	124.5
130	24.14	36.88	3.65	-2.3	119.9
140	23.60	36.91	3.58	-9.4	116.9
150	22.99	36.93	3.51	-14.7	116.4
160	22.44	36.93	3.46	-14.9	115.1
170	21.97	36.92	3.43	-10.4	114.6
180	21.39	36.89	3.41	-7.8	114.4
190	20.93	36.85	3.41	-7.4	111.0
200	20.47	36.81	3.39	-6.8	107.1
210	20.32	36.80	3.41	-2.2	106.1
220	19.83	36.74	3.43	0.8	110.5
230	19.49	36.70	3.40	2.8	111.8
240	19.08	36.64	3.43	4.1	106.7
250	18.56	36.57	3.45	4.7	102.0
260	18.32	36.54	3.45	6.7	101.4
270	18.05	36.50	3.46	9.2	98.9
280	17.84	36.47	3.51	11.5	95.7
290	17.34	36.39	3.46	9.4	94.2
300	17.02	36.33	3.41	7.5	89.9
350	15.06	36.00	3.20	1.8	76.9
400	13.69	35.77	3.04	1.9	72.4
450	11.83	35.47	2.85	-3.5	47.8
500	11.04	35.35	2.76	-5.0	49.4
550	9.69	35.16	2.74	3.1	36.1
600	8.94	35.06	2.76	0.5	29.5
650	8.13	34.98	2.80	9.4	17.8
700	7.68	34.95	2.88	10.7	11.5
750	6.74	34.91	3.12	3.7	-9.3

Table 36: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.51	36.25	4.45	NaN	NaN
10	29.15	36.21	4.49	3.3	93.9
20	28.49	36.17	4.58	1.7	93.4
30	27.60	36.14	4.64	-1.6	90.2
40	27.26	36.18	4.60	-3.1	89.0
50	26.84	36.26	4.48	2.4	86.8
60	26.48	36.29	4.61	8.2	84.2
70	26.26	36.32	4.59	11.4	84.9
80	26.09	36.32	4.50	11.7	86.4
90	25.85	36.37	4.40	9.5	88.7
100	25.14	36.84	3.67	1.1	94.7
110	25.15	36.88	3.58	-4.5	95.7
120	25.02	36.90	3.56	-6.7	95.1
130	24.78	36.94	3.53	-6.8	94.7
140	24.36	36.97	3.48	-6.9	93.3
150	24.15	36.98	3.46	-8.0	92.8
160	23.84	36.98	3.45	-7.8	92.1
170	23.12	36.94	3.49	-6.6	87.8
180	22.46	36.93	3.46	-4.1	83.8
190	22.44	36.93	3.46	-3.9	82.3
200	21.89	36.91	3.43	-2.9	81.4
210	21.38	36.89	3.42	-3.7	82.1
220	21.16	36.88	3.42	-2.0	83.9
230	20.54	36.82	3.40	0.1	84.6
240	20.05	36.77	3.39	-0.9	82.4
250	19.83	36.74	3.40	-0.9	82.3
260	19.65	36.72	3.38	-0.8	82.7
270	19.43	36.69	3.44	2.6	81.7
280	18.82	36.61	3.48	5.6	78.6
290	18.62	36.58	3.46	5.5	74.7
300	18.12	36.51	3.45	5.9	71.1
350	16.81	36.30	3.48	-2.3	73.7
400	15.54	36.09	3.42	-0.3	64.9
450	14.29	35.89	3.25	-1.7	53.8
500	12.63	35.59	2.94	-6.2	41.8
550	10.89	35.33	2.80	-1.6	35.9
600	10.03	35.20	2.76	-0.7	29.4
650	9.67	35.16	2.75	-4.2	27.1

Table 37: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.37	36.14	4.45	NaN	NaN
10	29.19	36.18	4.46	6.7	57.4
20	28.51	36.11	4.57	9.5	55.7
30	27.54	36.17	4.60	8.9	55.0
40	27.13	36.23	4.58	4.0	56.4
50	26.86	36.26	4.54	-0.6	62.1
60	26.53	36.33	4.47	0.5	60.2
70	26.38	36.36	4.44	-2.8	58.5
80	26.27	36.43	4.35	-5.0	60.7
90	25.91	36.52	4.21	-12.3	68.2
100	25.50	36.66	4.47	-10.4	67.1
110	25.20	36.76	4.55	-13.3	64.8
120	24.87	36.79	4.40	-11.5	67.7
130	24.54	36.85	4.52	-12.2	72.0
140	23.96	36.89	4.51	-9.5	72.5
150	23.72	36.89	4.51	-9.3	73.7
160	23.33	36.89	4.47	-11.9	76.9
170	22.89	36.88	4.37	-16.4	79.4
180	22.31	36.86	4.38	-14.9	77.8
190	22.03	36.87	4.27	-11.0	78.1
200	21.68	36.83	4.35	-13.3	79.5
210	21.12	36.80	4.32	-13.2	76.1
220	20.95	36.81	4.06	-11.2	77.4
230	20.69	36.77	4.29	-11.5	83.3
240	20.45	36.75	4.29	-15.3	85.2
250	19.98	36.71	4.27	-20.9	83.5
260	19.75	36.69	4.25	-21.1	81.9
270	19.20	36.64	4.22	-20.5	84.8
280	19.00	36.62	4.20	-23.4	83.6
290	18.63	36.59	4.17	-22.5	82.7
300	18.43	36.56	4.15	-20.9	79.5
350	17.10	36.38	3.98	-13.9	76.1
400	16.12	36.22	3.86	-13.6	70.2
450	15.02	36.03	3.70	-7.7	58.6
500	14.06	35.88	3.56	-9.8	54.8
550	12.36	35.62	3.35	-11.8	46.3
600	12.00	35.56	3.31	-7.9	37.3

Table 38: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1806. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.52	36.15	4.47	NaN	NaN
10	29.10	36.15	4.48	1.8	23.6
20	28.34	36.17	4.57	5.8	25.6
30	27.19	36.18	4.60	5.6	23.6
40	26.82	36.25	4.55	-1.7	19.9
50	26.65	36.27	4.52	-9.3	18.4
60	26.39	36.34	4.45	-3.6	24.9
70	26.20	36.41	4.37	6.9	33.7
80	25.93	36.47	4.27	3.2	40.3
90	25.55	36.58	4.25	-4.9	46.3
100	25.05	36.73	4.42	-20.2	57.5
110	24.35	36.85	4.45	-24.9	67.7
120	24.00	36.89	4.56	-26.8	71.7
130	23.75	36.94	4.40	-27.8	72.2
140	23.03	36.91	4.39	-27.6	75.3
150	22.66	36.89	4.43	-31.1	76.9
160	22.23	36.88	4.37	-38.4	74.7
170	21.75	36.86	4.34	-44.7	73.5
180	21.74	36.86	4.33	-44.0	76.3
190	21.71	36.86	4.33	-41.0	80.0
200	21.61	36.85	4.33	-35.8	85.7
210	21.47	36.85	4.31	-31.5	88.1
220	20.96	36.81	4.28	-34.1	88.2
230	20.71	36.79	4.27	-37.2	87.6
240	20.43	36.76	4.27	-37.7	87.7
250	19.99	36.72	4.27	-39.3	88.3
260	19.71	36.70	4.26	-39.9	91.1
270	19.55	36.68	4.26	-39.5	91.5
280	19.36	36.67	4.25	-39.3	87.6
290	19.08	36.63	4.20	-37.7	88.2
300	18.77	36.60	4.18	-38.1	90.2
350	18.28	36.55	4.15	-25.6	84.9
400	17.38	36.42	4.04	-11.1	68.3
450	15.61	36.13	3.80	-9.1	41.5

Table 39: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.13	36.14	4.39	NaN	NaN
10	29.14	36.13	4.42	-27.4	205.8
20	29.12	36.12	4.42	-29.8	213.7
30	29.04	36.11	4.42	-35.3	211.3
40	28.46	36.24	4.41	-36.2	209.4
50	27.14	36.35	4.37	-31.3	198.7
60	24.73	36.33	4.20	-21.7	175.4
70	21.34	36.41	3.76	-11.5	141.0
80	20.30	36.47	3.59	-5.1	121.0
90	19.42	36.35	3.49	-1.1	111.8
100	17.68	36.14	3.37	-0.6	100.9
110	16.08	35.95	3.23	-1.8	79.6
120	13.57	35.68	3.07	-13.2	55.1
130	12.10	35.53	2.95	-16.4	41.6
140	NaN	NaN	NaN	-10.4	36.6

Table 40: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.21	36.31	4.41	NaN	NaN
10	29.22	36.31	4.42	-32.4	239.6
20	29.23	36.31	4.42	-31.9	241.3
30	29.22	36.31	4.44	-30.8	240.1
40	29.16	36.30	4.45	-31.0	239.7
50	28.16	36.35	4.56	-29.4	230.6
60	27.18	36.42	4.43	-33.7	223.9
70	26.39	36.51	4.45	-31.5	205.3
80	23.35	36.54	3.93	-27.4	188.0
90	21.78	36.55	3.78	-23.6	168.8
100	21.28	36.64	3.59	-24.1	154.0
110	20.25	36.58	3.43	-18.6	141.1
120	19.33	36.48	3.34	-10.9	125.1
130	17.96	36.29	3.27	-8.4	109.8
140	15.54	36.01	3.15	-8.7	98.8
150	14.39	35.87	3.05	-4.8	89.4
160	13.81	35.79	3.00	-2.9	81.5
170	13.05	35.66	2.97	-3.0	73.6
180	12.17	35.53	2.93	-5.4	61.9
190	11.24	35.40	2.89	-6.8	49.8
200	10.37	35.28	2.86	-6.8	40.9
210	10.02	35.24	2.87	-6.8	28.7
220	9.23	35.15	2.89	-8.9	24.3
230	8.87	35.11	2.90	-10.3	21.3
240	8.59	35.08	2.91	-8.6	13.4
250	NaN	NaN	NaN	-8.3	10.5

Table 41: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.00	36.27	4.44	NaN	NaN
10	29.00	36.27	4.42	-17.5	227.2
20	29.00	36.27	4.43	-15.6	226.4
30	28.98	36.30	4.43	-15.1	226.7
40	28.94	36.30	4.44	-13.5	227.5
50	28.56	36.33	4.48	-14.0	228.0
60	27.82	36.38	4.45	-21.9	226.1
70	26.98	36.43	4.35	-20.2	221.9
80	26.30	36.54	4.13	-13.8	214.8
90	25.83	36.61	4.04	-13.7	207.0
100	25.03	36.79	3.81	-17.4	195.7
110	23.94	36.85	3.64	-22.3	184.7
120	23.11	36.79	3.66	-26.8	176.9
130	21.98	36.77	3.58	-28.4	171.5
140	20.88	36.81	3.41	-25.4	167.0
150	19.95	36.72	3.40	-15.1	159.7
160	18.87	36.55	3.29	-11.0	149.5
170	17.88	36.40	3.23	-15.2	138.7
180	16.82	36.26	3.19	-21.0	131.8
190	16.39	36.22	3.24	-21.9	128.7
200	15.96	36.16	3.22	-18.5	122.9
210	15.47	36.08	3.19	-15.5	116.8
220	14.82	35.97	3.12	-10.8	104.9
230	14.19	35.86	3.05	-8.4	90.9
240	12.93	35.65	2.95	-8.3	81.0
250	12.47	35.59	2.92	-9.9	71.0
260	11.98	35.51	2.90	-12.3	63.3
270	11.57	35.45	2.88	-16.8	58.2
280	11.19	35.40	2.87	-18.6	53.1
290	10.24	35.27	2.88	-16.8	47.4
300	9.45	35.18	2.89	-14.0	41.7
350	7.87	34.97	2.84	-8.2	11.3

Table 42: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.99	36.27	4.43	NaN	NaN
10	28.99	36.27	4.44	-18.1	204.7
20	28.98	36.27	4.46	-14.7	205.5
30	28.95	36.27	4.46	-10.4	202.7
40	28.27	36.28	4.52	-8.9	200.6
50	27.96	36.29	4.51	-9.2	196.2
60	27.58	36.29	4.45	-10.9	192.9
70	27.30	36.33	4.37	-12.9	188.0
80	26.73	36.33	4.29	-12.4	184.4
90	26.42	36.48	4.12	-14.5	180.8
100	25.98	36.63	4.01	-16.0	177.7
110	25.53	36.73	3.94	-17.1	176.3
120	24.52	36.86	3.71	-11.5	176.1
130	23.46	36.93	3.56	-9.9	170.8
140	22.63	36.94	3.49	-8.0	160.5
150	21.09	36.85	3.39	-11.9	150.3
160	20.37	36.79	3.41	-17.7	146.3
170	20.08	36.76	3.41	-21.7	146.0
180	19.29	36.66	3.40	-21.9	144.0
190	18.76	36.57	3.30	-20.0	142.1
200	18.09	36.49	3.34	-19.4	139.2
210	17.80	36.46	3.38	-20.1	137.0
220	17.65	36.43	3.37	-17.9	134.8
230	17.21	36.36	3.36	-13.6	131.1
240	16.54	36.25	3.29	-11.1	127.1
250	15.54	36.08	3.19	-9.1	122.2
260	15.44	36.06	3.18	-5.0	115.9
270	15.26	36.03	3.17	-3.4	107.7
280	14.45	35.89	3.10	-6.0	100.3
290	14.08	35.83	3.04	-11.3	95.7
300	13.83	35.79	3.01	-17.2	95.0
350	12.35	35.55	2.91	-6.1	88.6
400	11.27	35.40	2.86	-18.1	63.5
450	8.59	35.06	2.87	-9.3	30.7
500	7.90	34.97	2.84	-15.1	20.5

Table 43: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.00	36.27	4.45	NaN	NaN
10	29.01	36.27	4.46	-13.8	179.3
20	29.01	36.27	4.45	-10.3	181.5
30	28.96	36.27	4.46	-2.9	181.6
40	28.80	36.27	4.48	-0.8	180.4
50	28.32	36.28	4.59	-2.8	177.0
60	28.04	36.28	4.54	-6.2	171.9
70	27.59	36.28	4.50	-6.7	168.0
80	27.08	36.30	4.34	-9.1	163.0
90	26.90	36.43	4.26	-13.8	159.6
100	26.60	36.44	4.18	-16.6	158.6
110	25.49	36.70	4.00	-15.6	156.1
120	24.75	36.82	3.76	-7.8	154.6
130	23.68	36.91	3.65	-6.2	151.8
140	22.58	36.94	3.50	-6.9	148.1
150	21.76	36.91	3.41	-7.9	141.4
160	21.59	36.89	3.41	-9.3	136.4
170	21.10	36.87	3.41	-8.2	135.0
180	20.28	36.79	3.44	-8.3	132.1
190	19.84	36.74	3.43	-9.6	127.2
200	19.33	36.67	3.35	-12.0	124.4
210	19.06	36.63	3.35	-17.5	121.2
220	18.60	36.57	3.36	-20.1	118.9
230	18.21	36.51	3.38	-18.6	116.4
240	17.76	36.45	3.37	-16.1	115.7
250	17.34	36.39	3.36	-13.7	114.6
260	16.91	36.31	3.36	-12.0	110.5
270	16.24	36.20	3.33	-11.0	105.0
280	15.78	36.13	3.33	-10.4	101.4
290	15.22	36.03	3.29	-9.0	98.0
300	14.85	35.97	3.21	-6.8	95.9
350	13.57	35.74	3.03	-7.9	86.4
400	11.69	35.44	2.86	-7.4	77.2
450	10.73	35.30	2.80	-13.6	76.0
500	9.46	35.13	2.74	-15.7	60.7
550	8.84	35.05	2.75	-10.0	44.4
600	8.00	34.97	2.79	-11.1	23.3

Table 44: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.10	36.24	4.44	NaN	NaN
10	29.11	36.24	4.44	-4.4	130.1
20	29.10	36.24	4.43	-0.1	132.1
30	29.00	36.26	4.46	1.3	129.0
40	28.95	36.26	4.47	0.0	129.4
50	28.89	36.26	4.46	-3.8	131.1
60	28.50	36.30	4.53	-5.5	133.2
70	28.01	36.33	4.50	0.7	132.4
80	27.55	36.33	4.45	3.9	130.3
90	26.95	36.38	4.28	6.3	128.5
100	26.58	36.49	4.16	3.9	127.2
110	25.57	36.70	3.96	-2.1	128.7
120	25.03	36.79	3.81	-6.9	130.9
130	24.62	36.87	3.75	-11.4	131.1
140	24.11	36.91	3.71	-11.4	127.2
150	23.39	36.94	3.59	-9.9	119.4
160	22.68	36.95	3.49	-10.7	115.2
170	21.99	36.93	3.43	-11.3	114.3
180	21.60	36.91	3.43	-13.3	111.5
190	21.10	36.87	3.43	-12.0	109.2
200	20.68	36.84	3.43	-9.1	105.3
210	20.24	36.79	3.43	-7.6	100.1
220	19.75	36.73	3.44	-8.9	99.3
230	19.57	36.71	3.45	-9.5	96.4
240	19.17	36.66	3.45	-11.2	94.8
250	18.91	36.63	3.44	-11.3	93.8
260	18.49	36.57	3.49	-10.5	92.0
270	18.30	36.54	3.54	-11.5	91.7
280	17.99	36.49	3.53	-10.5	89.8
290	17.68	36.44	3.49	-8.7	87.0
300	17.43	36.40	3.49	-6.4	84.1
350	15.36	36.04	3.13	-8.3	69.5
400	14.08	35.83	3.08	-11.0	62.0
450	12.27	35.53	2.89	-10.4	49.7
500	11.40	35.39	2.81	-5.4	39.1
550	10.57	35.27	2.76	-2.0	29.9
600	9.81	35.17	2.73	-5.1	21.3
650	8.82	35.04	2.74	1.8	17.9
700	7.89	34.97	2.86	-1.6	5.9
750	NaN	NaN	NaN	-12.6	3.3

Table 45: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.20	36.21	4.41	NaN	NaN
10	29.19	36.21	4.42	1.6	80.2
20	29.14	36.23	4.45	5.3	82.9
30	29.08	36.26	4.45	10.6	79.8
40	29.04	36.26	4.46	9.8	81.0
50	28.91	36.25	4.46	9.5	84.2
60	28.19	36.33	4.52	8.1	88.0
70	27.83	36.31	4.54	7.2	87.5
80	27.25	36.38	4.42	9.1	87.1
90	27.04	36.41	4.32	5.9	89.1
100	26.60	36.51	4.17	4.1	92.4
110	26.01	36.61	4.03	2.3	93.1
120	25.53	36.71	3.91	0.3	92.4
130	24.97	36.81	3.83	-2.0	91.7
140	24.19	36.91	3.92	-4.3	87.5
150	23.39	36.95	4.02	-8.6	85.4
160	22.92	36.94	4.09	-10.6	87.3
170	22.41	36.91	4.17	-10.3	88.7
180	22.19	36.93	4.03	-8.3	85.5
190	21.79	36.92	3.57	-7.5	83.0
200	21.20	36.88	3.42	-8.3	81.2
210	21.03	36.87	3.42	-8.2	79.0
220	20.83	36.85	3.43	-7.3	78.6
230	20.56	36.82	3.43	-5.6	80.1
240	20.14	36.78	3.44	-5.0	82.3
250	19.86	36.75	3.43	-5.5	82.8
260	19.54	36.71	3.44	-6.8	82.9
270	19.17	36.66	3.50	-7.2	82.1
280	18.93	36.63	3.50	-6.2	80.1
290	18.61	36.58	3.53	-4.6	79.0
300	18.43	36.57	3.88	-6.0	78.5
350	17.77	36.49	4.03	-8.3	65.7
400	16.67	36.29	3.70	-8.4	58.8
450	15.32	36.05	3.27	-7.0	46.1
500	14.36	35.90	3.53	-2.4	33.0
550	11.86	35.55	3.30	-0.9	13.9
600	10.72	35.33	2.97	-3.1	6.8
650	10.59	35.33	2.96	0.3	7.4

Table 46: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.11	36.20	4.43	NaN	NaN
10	29.11	36.20	4.43	-1.8	42.3
20	29.11	36.19	4.44	-3.3	44.7
30	29.09	36.20	4.45	-5.1	44.8
40	29.15	36.24	4.45	-4.3	45.2
50	29.10	36.27	4.49	-1.0	47.5
60	28.52	36.29	4.60	5.3	51.2
70	27.80	36.32	4.53	9.4	53.8
80	27.07	36.40	4.36	11.2	53.8
90	26.74	36.46	4.24	8.4	51.8
100	26.39	36.55	4.10	5.3	53.0
110	25.92	36.66	3.99	2.0	55.2
120	24.84	36.81	4.28	0.1	60.2
130	24.65	36.84	4.26	-6.3	65.7
140	24.26	36.90	4.25	-12.9	68.9
150	24.17	36.91	4.25	-15.9	68.4
160	23.04	36.90	4.27	-16.2	67.5
170	22.42	36.89	4.27	-14.5	68.2
180	22.02	36.87	4.26	-13.4	66.9
190	21.73	36.85	4.26	-14.0	67.7
200	21.29	36.82	4.28	-13.8	67.2
210	21.04	36.80	4.30	-13.3	67.8
220	20.59	36.76	4.37	-13.8	67.7
230	20.36	36.74	4.36	-14.7	67.0
240	20.02	36.71	4.35	-15.0	66.7
250	19.63	36.67	4.38	-15.0	68.2
260	19.42	36.66	4.40	-15.1	69.1
270	19.31	36.65	4.38	-15.0	69.4
280	19.22	36.64	4.37	-15.8	69.0
290	18.99	36.62	4.35	-15.3	68.2
300	18.93	36.62	4.29	-14.6	66.8
350	18.07	36.52	4.11	-12.6	60.4
400	17.41	36.42	4.01	-13.0	58.6
450	15.95	36.17	3.86	-10.5	60.0
500	14.91	36.00	3.74	-6.9	58.9
550	13.77	35.83	3.51	-9.6	40.8
600	13.33	35.76	3.44	-0.1	25.0

Table 47: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1809. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.30	36.24	4.42	NaN	NaN
10	29.30	36.24	4.43	-13.1	33.9
20	29.30	36.24	4.43	-10.7	34.9
30	29.27	36.24	4.44	-8.1	34.7
40	29.27	36.27	4.45	-5.0	34.4
50	29.26	36.28	4.45	-3.1	33.4
60	28.48	36.28	4.59	-1.0	31.9
70	27.99	36.37	4.49	4.5	31.4
80	27.30	36.36	4.42	7.7	31.0
90	26.55	36.48	4.38	8.1	31.2
100	26.07	36.57	4.39	4.9	30.0
110	24.92	36.79	4.31	-1.1	29.7
120	24.54	36.86	4.28	-5.2	29.0
130	24.06	36.90	4.26	-10.5	31.1
140	23.58	36.91	4.27	-19.2	33.3
150	23.15	36.91	4.29	-19.7	37.3
160	23.05	36.91	4.27	-17.1	41.0
170	22.01	36.86	4.33	-14.3	41.4
180	21.94	36.86	4.33	-11.5	44.5
190	21.31	36.81	4.36	-7.4	52.8
200	21.00	36.79	4.37	-5.3	55.2
210	20.72	36.77	4.40	-6.4	57.5
220	20.25	36.73	4.36	-8.7	63.4
230	19.90	36.70	4.37	-9.9	64.3
240	19.81	36.69	4.38	-12.6	64.8
250	19.75	36.69	4.39	-15.0	65.7
260	19.66	36.68	4.38	-15.7	63.2
270	19.56	36.67	4.37	-15.7	59.9
280	19.48	36.66	4.38	-14.4	59.4
290	19.37	36.65	4.39	-14.6	57.8
300	19.23	36.64	4.39	-16.4	56.4
350	18.46	36.56	4.26	-20.5	63.1
400	17.78	36.48	4.06	-15.5	60.5
450	16.81	36.32	3.94	-6.2	44.3

Table 48: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.88	36.03	4.43	NaN	NaN
10	27.88	36.03	4.45	-22.3	175.9
20	27.88	36.03	4.45	-28.6	155.2
30	27.72	36.05	4.37	-29.6	158.7
40	27.26	36.11	4.26	-32.3	155.4
50	26.26	36.16	4.07	-28.7	142.0
60	24.33	36.19	3.91	-16.3	115.5
70	22.04	36.16	3.76	-14.4	90.9
80	18.64	36.13	3.48	-12.4	62.2
90	17.34	36.31	3.26	-11.8	33.9
100	16.06	36.13	3.21	-10.5	15.5
110	15.22	35.98	3.16	-4.4	-0.3
120	14.21	35.85	3.11	-1.3	1.1
130	13.43	35.74	3.03	-2.3	5.1
140	NaN	NaN	NaN	-4.3	6.7

Table 49: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.70	36.13	4.41	NaN	NaN
10	28.70	36.13	4.43	-26.3	195.3
20	28.71	36.13	4.44	-26.4	193.5
30	28.71	36.13	4.44	-26.4	191.0
40	28.71	36.15	4.44	-27.7	189.0
50	28.70	36.15	4.43	-27.5	187.1
60	28.31	36.25	4.45	-26.1	186.7
70	28.11	36.27	4.46	-28.0	182.0
80	27.27	36.28	4.41	-29.4	174.0
90	25.84	36.42	4.22	-24.7	159.7
100	21.68	36.15	3.90	-16.5	128.0
110	17.76	36.10	3.45	-8.5	82.4
120	15.87	36.00	3.25	-8.4	41.4
130	15.05	36.01	3.17	-7.9	20.0
140	14.76	35.97	3.12	-7.4	15.1
150	14.55	35.93	3.10	-3.1	14.0
160	13.70	35.79	3.07	0.5	12.2
170	13.23	35.72	3.04	-3.3	9.4
180	12.80	35.66	3.02	-8.8	7.1
190	12.34	35.59	3.01	-14.8	5.1
200	11.59	35.48	2.98	-15.5	3.1
210	10.49	35.30	2.89	-13.6	0.7
220	9.73	35.19	2.82	-10.2	2.3
230	9.20	35.11	2.78	-9.4	4.3
240	8.88	35.07	2.77	-8.3	0.9
250	8.60	35.05	2.80	-6.3	-2.5
260	NaN	NaN	NaN	-6.3	-2.5

Table 50: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.76	36.16	4.42	NaN	NaN
10	28.76	36.15	4.41	-15.4	168.3
20	28.76	36.15	4.43	-16.6	169.3
30	28.76	36.15	4.43	-16.1	170.9
40	28.77	36.15	4.43	-17.0	170.5
50	28.77	36.16	4.44	-17.4	170.8
60	28.77	36.16	4.42	-16.0	170.0
70	28.76	36.18	4.42	-13.7	172.8
80	28.09	36.30	4.44	-10.8	176.4
90	27.25	36.37	4.36	-13.8	179.3
100	26.55	36.46	4.30	-16.3	177.7
110	25.25	36.58	4.40	-18.3	177.2
120	24.48	36.83	3.77	-16.2	172.9
130	23.21	36.77	3.70	-14.1	164.7
140	21.91	36.81	3.50	-9.5	153.5
150	19.43	36.46	3.38	-5.0	130.3
160	17.09	36.18	3.29	-4.3	108.4
170	16.26	36.16	3.20	-3.3	88.8
180	15.82	36.13	3.16	-0.1	80.8
190	15.55	36.08	3.13	0.7	76.1
200	15.20	36.02	3.10	0.7	69.8
210	14.35	35.85	3.10	-1.4	58.5
220	13.05	35.68	3.06	-1.5	46.5
230	12.64	35.63	2.99	-1.5	34.8
240	11.75	35.51	2.98	-3.5	25.7
250	11.07	35.41	2.96	-4.9	20.4
260	10.08	35.27	2.95	-6.1	19.1
270	9.66	35.22	2.92	-7.1	18.7
280	9.46	35.19	2.91	-6.6	17.0
290	9.24	35.16	2.90	-7.6	16.5
300	8.97	35.12	2.90	-9.0	17.6
350	7.45	34.95	2.95	-8.3	25.1

Table 51: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.55	36.17	4.44	NaN	NaN
10	28.56	36.17	4.43	-20.9	160.1
20	28.57	36.17	4.43	-18.0	163.6
30	28.56	36.19	4.44	-19.8	161.0
40	28.53	36.21	4.44	-20.6	163.0
50	28.52	36.21	4.44	-24.1	166.7
60	28.37	36.23	4.45	-28.2	170.0
70	28.15	36.28	4.41	-26.7	171.0
80	27.25	36.37	4.35	-22.3	168.3
90	26.82	36.44	4.23	-17.2	167.0
100	26.39	36.52	4.10	-14.7	166.0
110	26.00	36.61	3.99	-16.2	164.3
120	25.38	36.73	3.82	-16.9	164.6
130	24.75	36.84	3.67	-13.3	162.3
140	23.72	36.95	3.61	-5.4	157.9
150	23.11	36.97	3.54	-6.8	155.2
160	22.65	36.96	3.51	-9.6	154.5
170	21.61	36.89	3.48	-10.2	154.5
180	20.98	36.80	3.35	-10.1	154.4
190	20.33	36.77	3.35	-3.1	151.2
200	19.05	36.59	3.33	1.9	143.4
210	18.52	36.50	3.28	3.4	128.2
220	17.66	36.35	3.23	-0.2	117.2
230	16.71	36.21	3.18	-3.1	114.7
240	15.75	36.08	3.13	-3.3	110.6
250	14.82	35.96	3.08	-1.8	105.2
260	14.27	35.87	3.04	-0.0	101.1
270	13.58	35.78	3.02	1.5	95.2
280	13.38	35.75	3.01	2.1	87.7
290	12.72	35.63	2.99	0.4	83.9
300	12.33	35.58	2.96	0.9	83.8
350	9.81	35.24	2.91	-2.3	56.3
400	7.78	34.97	2.91	0.0	34.5
450	7.11	34.92	3.00	-5.4	32.6
500	6.68	34.91	3.15	-0.7	25.9

Table 52: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.53	36.26	4.42	NaN	NaN
10	28.51	36.25	4.44	-22.8	134.0
20	28.46	36.25	4.45	-20.0	135.5
30	28.43	36.26	4.44	-16.7	136.5
40	28.41	36.25	4.44	-15.5	137.1
50	28.38	36.25	4.43	-16.6	136.2
60	28.37	36.25	4.43	-19.2	135.6
70	27.95	36.31	4.36	-22.7	139.9
80	27.67	36.33	4.30	-20.7	144.3
90	27.28	36.38	4.17	-17.3	144.6
100	26.96	36.43	4.16	-13.9	142.3
110	26.28	36.55	4.03	-16.3	140.7
120	25.73	36.66	3.91	-13.9	141.6
130	24.99	36.80	3.76	-10.1	140.8
140	24.24	36.91	3.61	-9.3	135.1
150	23.62	36.96	3.52	-10.6	132.1
160	23.32	36.97	3.48	-11.7	134.4
170	22.52	36.96	3.49	-9.0	136.4
180	21.99	36.94	3.47	-6.0	136.2
190	21.20	36.85	3.42	-1.4	133.8
200	20.55	36.74	3.26	-1.2	131.5
210	19.86	36.67	3.20	-5.8	129.1
220	18.74	36.52	3.08	-12.2	129.2
230	18.43	36.51	3.19	-13.1	131.3
240	18.07	36.47	3.24	-9.2	131.0
250	17.57	36.40	3.28	-1.2	127.5
260	17.12	36.34	3.27	3.1	124.8
270	16.94	36.32	3.35	4.1	121.9
280	16.66	36.27	3.31	3.0	116.9
290	16.15	36.18	3.26	0.0	111.2
300	15.66	36.10	3.22	-6.2	107.7
350	13.20	35.70	2.98	-7.7	105.5
400	9.98	35.24	2.84	1.8	72.2
450	8.09	35.02	2.93	-1.7	52.4
500	7.11	34.92	3.00	-1.1	44.3
550	6.91	34.91	3.06	3.2	38.5
600	6.67	34.90	3.12	2.3	26.8
650	6.55	34.90	3.19	0.2	22.5

Table 53: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.47	36.31	4.43	NaN	NaN
10	28.48	36.31	4.44	-5.5	112.5
20	28.48	36.31	4.45	-11.6	111.3
30	28.48	36.31	4.45	-12.8	111.8
40	28.48	36.31	4.46	-15.0	112.3
50	28.46	36.30	4.46	-15.0	112.4
60	28.46	36.30	4.44	-15.6	110.5
70	28.40	36.30	4.43	-14.9	110.4
80	28.04	36.32	4.34	-11.5	111.6
90	27.64	36.35	4.23	-7.8	113.7
100	27.34	36.38	4.16	-4.3	113.2
110	26.67	36.48	4.11	-3.8	110.7
120	26.15	36.58	4.00	-8.1	107.1
130	25.27	36.76	3.82	-7.9	107.2
140	24.56	36.86	3.72	-1.8	106.1
150	23.95	36.93	3.55	0.8	104.5
160	23.42	36.96	3.53	-1.2	104.5
170	22.55	36.96	3.52	-9.6	108.3
180	22.04	36.94	3.50	-10.6	110.3
190	21.50	36.91	3.46	-6.7	110.0
200	20.93	36.86	3.45	-7.2	107.3
210	20.19	36.78	3.43	-9.0	106.2
220	19.92	36.75	3.45	-12.1	107.4
230	19.44	36.69	3.44	-12.0	106.8
240	18.98	36.63	3.41	-8.9	106.4
250	18.66	36.59	3.48	-6.7	103.5
260	18.23	36.53	3.47	-6.8	102.8
270	17.78	36.45	3.41	-5.5	100.8
280	17.31	36.38	3.38	-3.7	98.9
290	16.99	36.33	3.38	-3.9	98.2
300	16.67	36.27	3.36	-3.3	97.6
350	15.19	36.02	3.17	-6.1	86.0
400	13.29	35.70	2.97	-6.0	87.8
450	10.08	35.21	2.75	1.0	79.7
500	8.76	35.05	2.74	-3.8	63.6
550	8.24	35.01	2.83	-6.3	59.3
600	7.81	34.97	2.87	2.0	51.6
650	7.24	34.92	2.96	-3.3	40.5
700	6.96	34.91	3.05	-6.7	38.2
750	NaN	NaN	NaN	-4.2	39.2

Table 54: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.44	36.30	4.43	NaN	NaN
10	28.45	36.30	4.42	-10.7	78.2
20	28.46	36.30	4.44	-10.7	78.2
30	28.44	36.30	4.45	-10.8	78.4
40	28.44	36.30	4.45	-11.2	78.1
50	28.44	36.30	4.44	-11.5	75.4
60	28.43	36.30	4.44	-11.6	73.0
70	28.39	36.30	4.42	-13.1	71.4
80	28.24	36.30	4.39	-10.3	70.9
90	27.89	36.40	4.26	-5.0	74.3
100	27.04	36.43	4.12	-2.1	75.0
110	26.65	36.50	4.05	-0.8	69.0
120	25.89	36.65	3.95	-3.0	68.6
130	25.61	36.70	3.91	-8.6	68.5
140	24.84	36.81	3.77	-9.9	68.2
150	24.71	36.83	3.74	-8.6	70.0
160	23.76	36.93	3.64	-8.2	69.6
170	22.91	36.95	3.54	-7.8	70.9
180	22.35	36.94	3.48	-6.8	74.0
190	21.42	36.88	3.41	-7.6	76.0
200	20.72	36.82	3.37	-7.8	75.1
210	20.53	36.81	3.35	-10.3	72.8
220	20.15	36.77	3.38	-11.7	72.1
230	19.67	36.71	3.38	-12.6	71.6
240	19.43	36.68	3.37	-13.6	72.7
250	19.09	36.65	3.41	-12.3	72.7
260	18.72	36.60	3.42	-9.5	72.2
270	18.50	36.57	3.46	-9.8	74.1
280	18.15	36.51	3.45	-9.4	76.4
290	17.78	36.45	3.38	-6.5	78.2
300	17.40	36.38	3.28	-2.9	79.1
350	15.62	36.09	3.20	2.3	63.9
400	13.59	35.75	2.97	-2.2	51.9
450	12.37	35.55	2.89	-9.0	52.3
500	10.42	35.25	2.76	-6.9	39.6
550	9.63	35.15	2.73	3.7	33.3
600	9.08	35.08	2.74	-1.6	22.2
650	8.17	34.99	2.79	3.4	7.8

Table 55: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.47	36.31	4.38	NaN	NaN
10	28.44	36.30	4.43	-11.2	27.7
20	28.43	36.30	4.45	-10.7	26.4
30	28.42	36.30	4.44	-8.9	26.5
40	28.42	36.30	4.44	-8.2	26.1
50	28.41	36.30	4.43	-7.8	26.6
60	28.41	36.30	4.43	-7.7	26.4
70	28.41	36.30	4.42	-6.8	26.8
80	28.28	36.31	4.39	-3.9	28.9
90	27.18	36.40	4.13	0.1	34.1
100	26.93	36.45	4.09	4.9	37.3
110	26.44	36.54	4.02	7.2	36.2
120	25.80	36.66	3.92	-0.2	36.6
130	25.13	36.75	3.82	-8.4	41.6
140	24.78	36.80	3.76	-10.9	47.7
150	24.00	36.87	3.65	-7.4	52.7
160	23.16	36.93	3.58	-3.7	55.6
170	22.61	36.94	3.54	-5.8	56.3
180	22.08	36.93	3.45	-10.9	54.6
190	21.49	36.90	3.42	-16.7	51.3
200	21.20	36.87	3.41	-19.0	51.9
210	20.74	36.84	3.40	-19.3	54.3
220	20.45	36.81	3.40	-14.2	58.6
230	20.30	36.79	3.40	-8.9	62.3
240	19.58	36.71	3.42	-8.7	63.8
250	19.28	36.67	3.43	-13.3	63.9
260	18.94	36.62	3.42	-17.9	61.3
270	18.28	36.53	3.44	-17.1	59.5
280	18.05	36.50	3.43	-14.2	57.2
290	18.00	36.49	3.43	-11.8	56.3
300	17.80	36.46	3.43	-10.5	56.2
350	16.46	36.24	3.44	-8.6	49.0
400	15.02	35.99	3.25	-2.6	35.4
450	13.53	35.74	2.98	-3.0	32.8
500	12.38	35.55	2.87	0.5	26.9
550	11.18	35.37	2.79	3.7	16.4
600	10.15	35.23	2.74	0.9	7.2

Table 56: Same as Table 22 for the cruise ID and the station number indicated.

Cruise ID: fc1810. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.55	36.30	4.44	NaN	NaN
10	28.53	36.30	4.44	4.6	-24.5
20	28.48	36.31	4.45	4.0	-24.6
30	28.43	36.30	4.43	5.3	-25.5
40	28.42	36.30	4.43	6.3	-26.1
50	28.41	36.30	4.42	7.5	-25.7
60	28.00	36.36	4.34	8.1	-19.1
70	27.50	36.39	4.23	7.3	-7.6
80	27.16	36.43	4.18	3.8	-0.4
90	26.91	36.47	4.16	0.3	3.1
100	26.36	36.56	4.05	1.1	6.9
110	25.46	36.71	3.88	-4.5	13.1
120	24.73	36.81	3.85	-11.7	24.6
130	24.37	36.85	3.73	-14.2	34.3
140	23.67	36.90	3.63	-8.1	38.5
150	22.89	36.93	3.58	-0.9	43.5
160	22.11	36.91	3.56	-5.1	48.7
170	21.70	36.88	3.72	-8.8	52.8
180	21.48	36.86	3.70	-9.0	54.5
190	21.27	36.85	3.74	-13.1	53.6
200	20.82	36.83	3.68	-22.4	51.3
210	20.43	36.78	3.79	-26.1	50.4
220	20.23	36.76	3.93	-23.8	50.0
230	19.99	36.74	4.02	-21.4	51.0
240	19.97	36.74	4.01	-19.0	52.6
250	19.80	36.72	3.92	-13.3	52.7
260	19.57	36.70	3.74	-10.7	51.7
270	19.22	36.66	3.46	-13.3	49.0
280	19.09	36.65	3.48	-15.7	50.0
290	19.08	36.65	3.48	-16.7	51.5
300	18.80	36.61	3.54	-15.8	50.5
350	17.60	36.44	3.82	-12.6	41.5
400	16.19	36.21	3.58	-9.1	29.2
450	14.90	36.01	3.73	-5.1	23.1

Table 57: Same as Table 22 for the cruise ID and the station number indicated.

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