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Oceanographic data collected in the Straits of Florida at 27°N during the year 2017, including the estimated Florida Current transport

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The findings and conclusion on this report are those of the authors and do not necessarily represent the views of the funding agency.

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Abstract

This report summarizes the Florida Current data collected along 27°N during calendar year 2017 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.

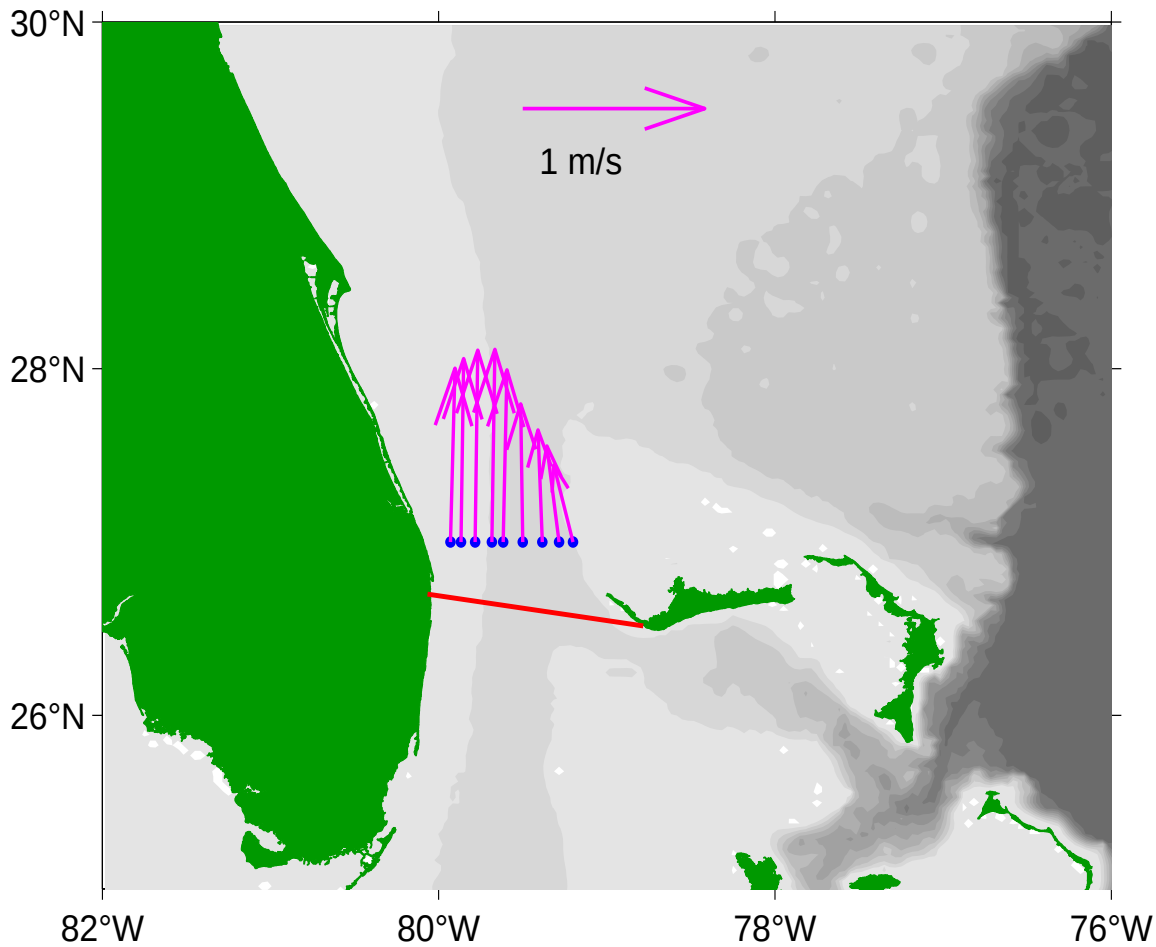

Figure 1: Map of the Straits of Florida study area. Blue dots indicate the locations of dropsonde, XBT and CTD/LADCP stations. Red line shows the approximate location of the telephone cable used for the voltage measurements. Magenta vectors illustrate the time mean vertically-averaged horizontal velocities 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).

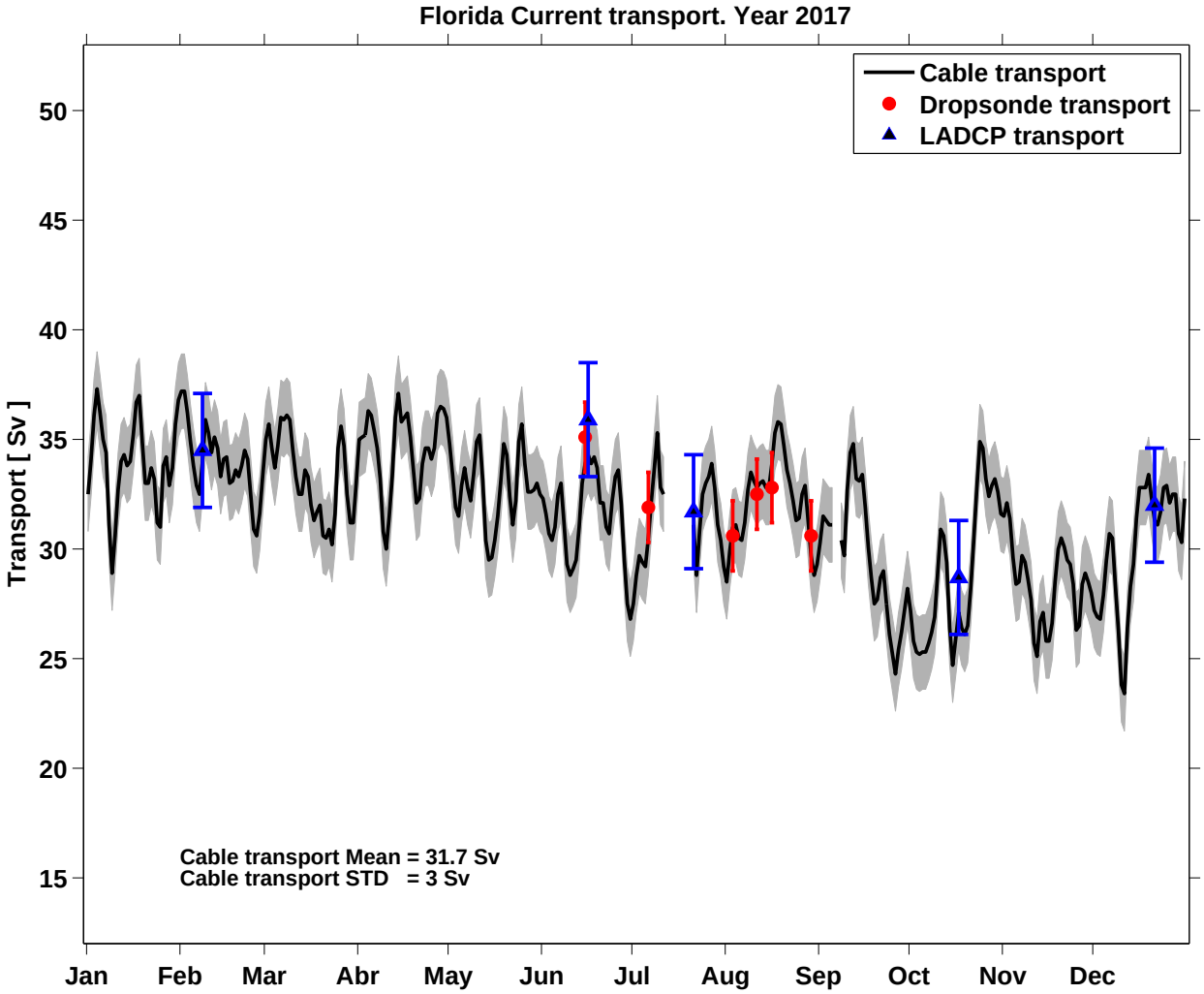

Figure 2: Observed Florida Current volume transports measured by cable voltage (black line), dropsonde sections (red dots) and LADCP sections (blue triangles). For each measurement system the estimated error bar is also shown. The annual mean and standard deviation (STD) from the cable voltage estimates 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	2017	3	30	11	NaN	NaN
2	2017	6	15	16	35.4	35.1
3	2017	7	6	17	33.9	31.9
4	2017	7	24	19	NaN	NaN
5	2017	8	3	16	33.1	30.6
6	2017	8	11	14	32.1	32.5
7	2017	8	16	14	35.6	32.8
8	2017	8	29	15	32.3	30.6

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.

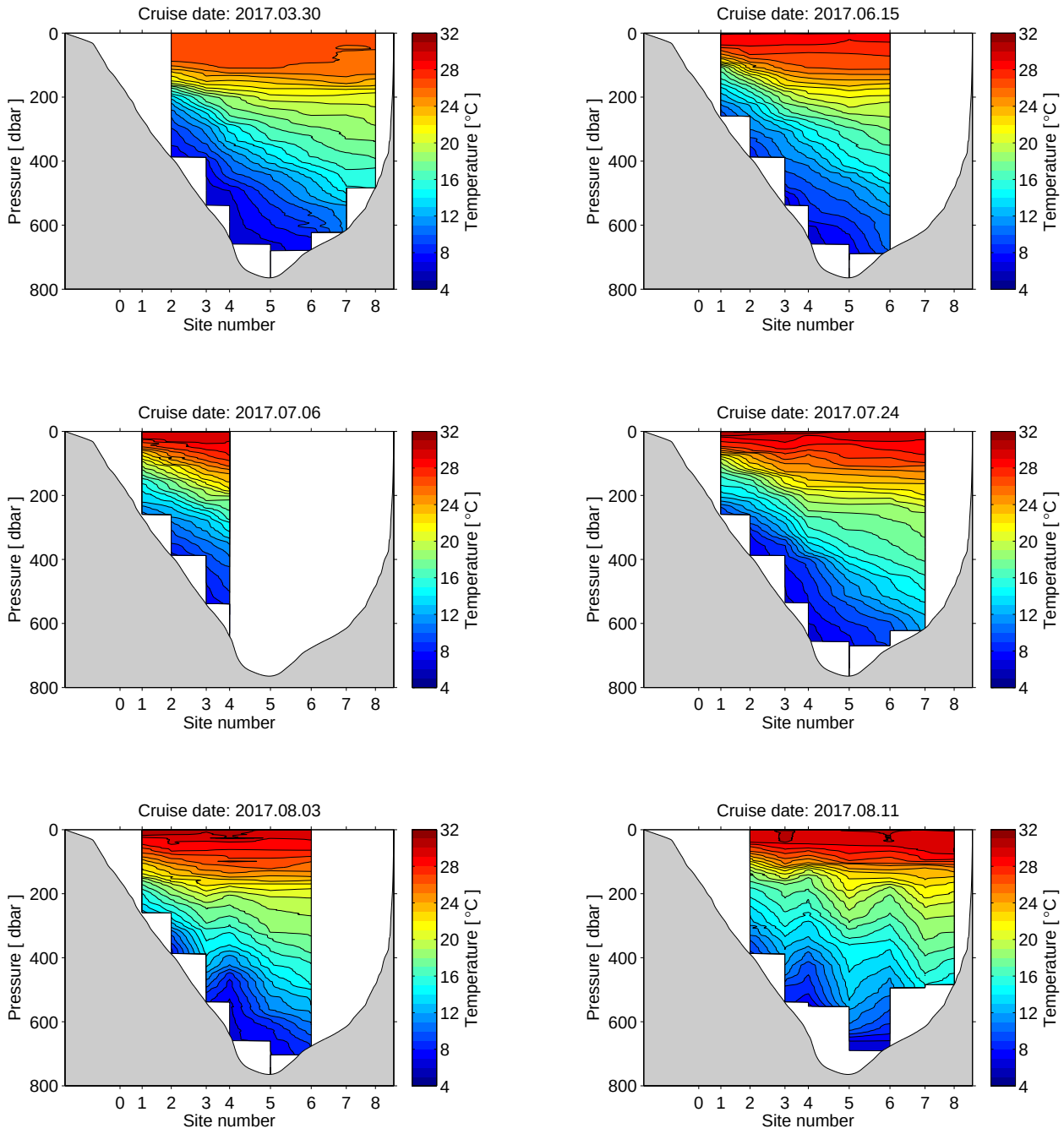

Figure 3: Temperature sections measured with XBT on the indicated dates. Date format is year, month, and day.

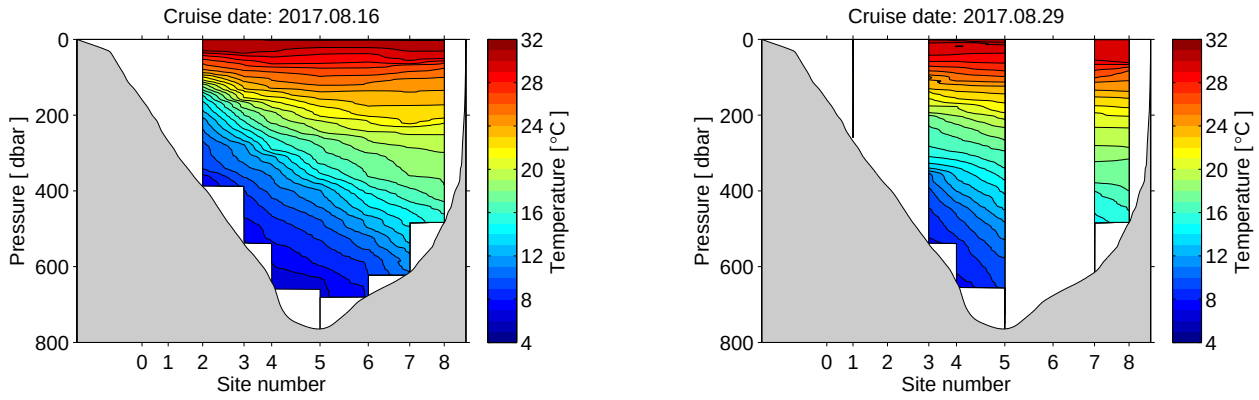

Figure 4: Same as Figure 3 for the data collected on the cruise date indicated.

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
fc1702	2017	2	8	4	35.8	34.5
fc1706	2017	6	16	2	36.3	35.9
fc1707	2017	7	21	5	29.7	31.7
fc1710	2017	10	17	6	29.1	28.7
fc1712	2017	12	21	4	33.0	32.0

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.

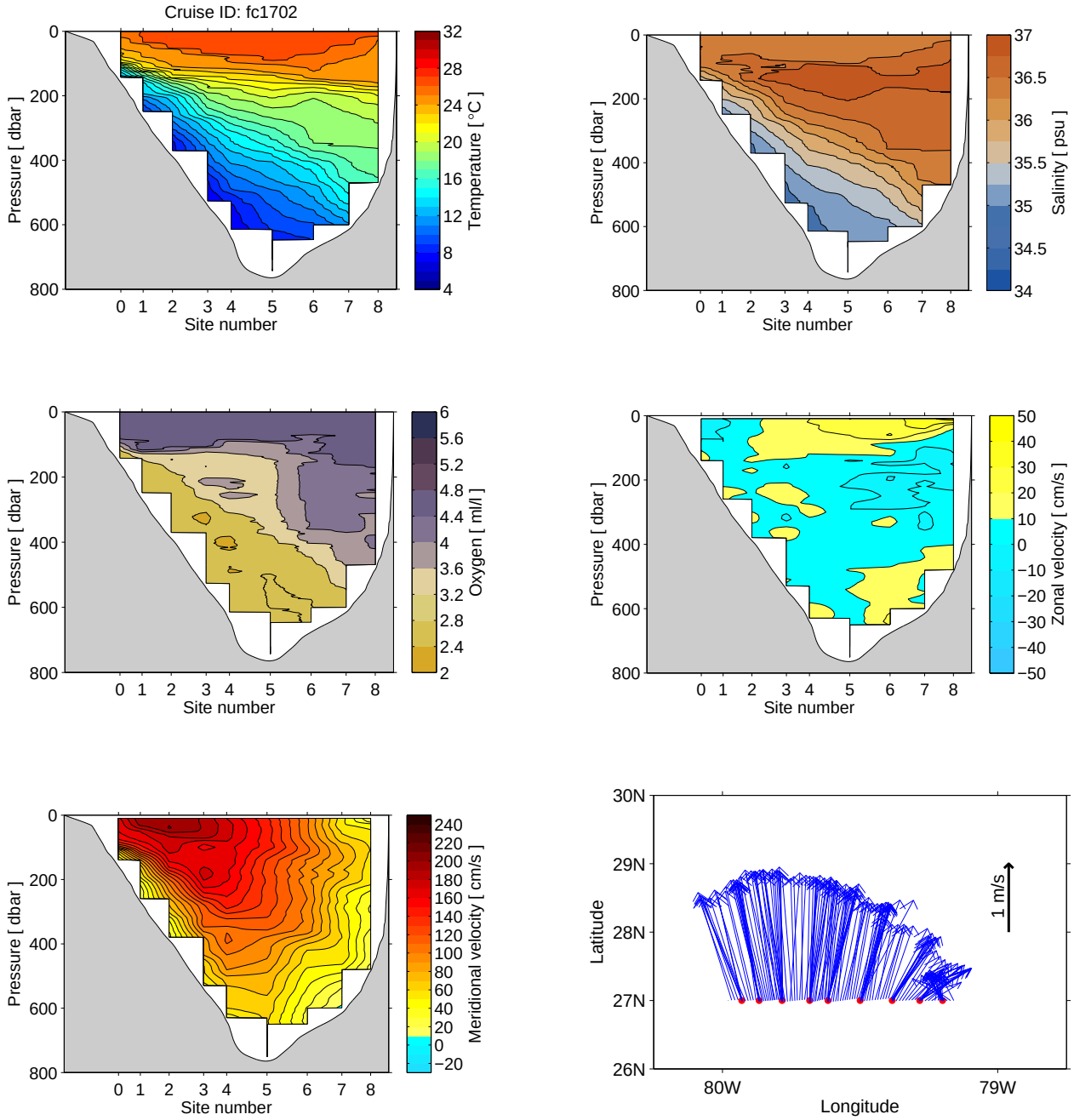

Figure 5: Sections of temperature, salinity, dissolved oxygen (all from CTD), velocity profile (LADCP) and vector velocity map at 50m (SADCP) collected by research vessel. Cruise ID noted above the temperature panel; cruise date are shown in Table 3.

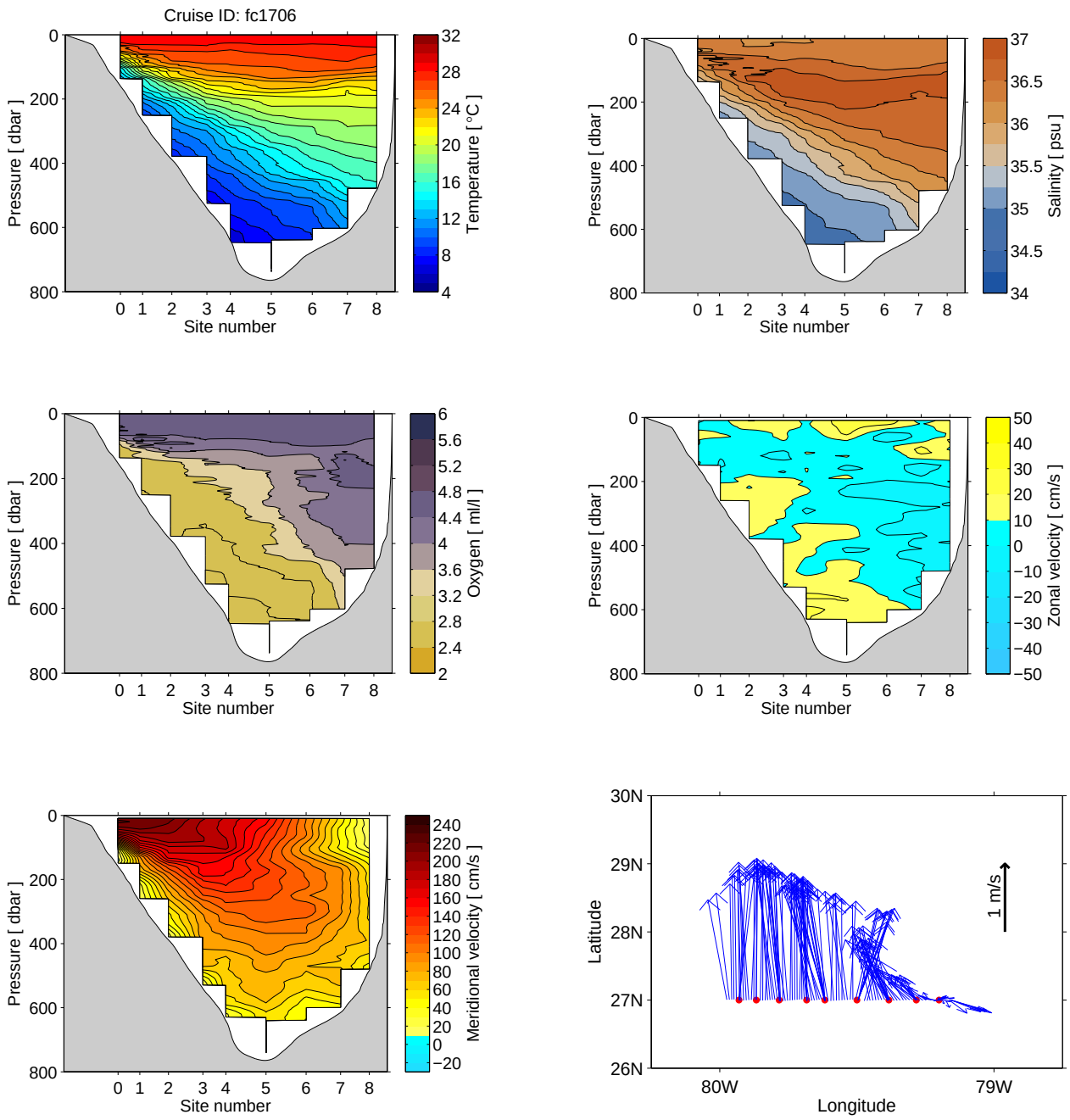

Figure 6: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

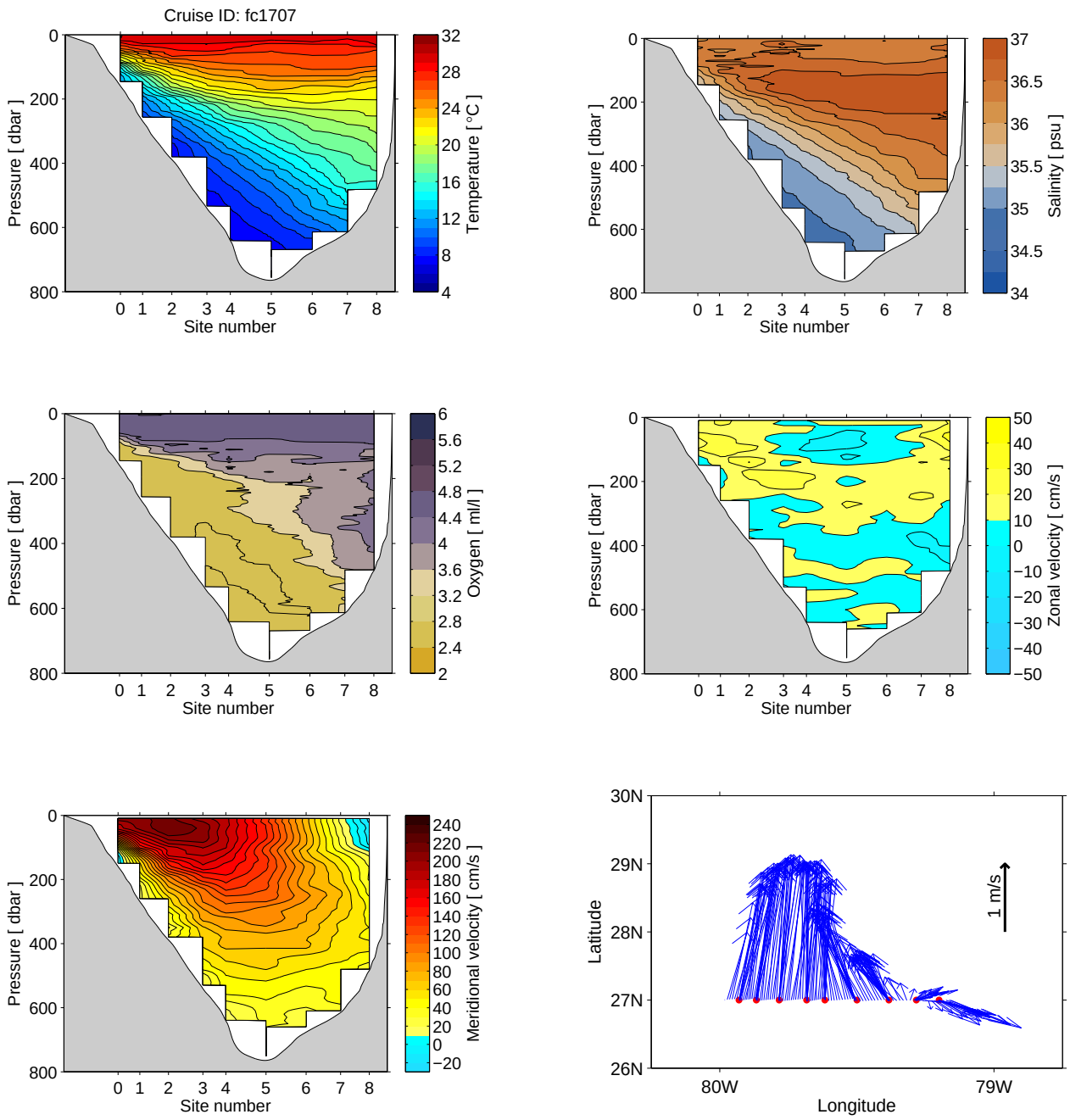

Figure 7: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

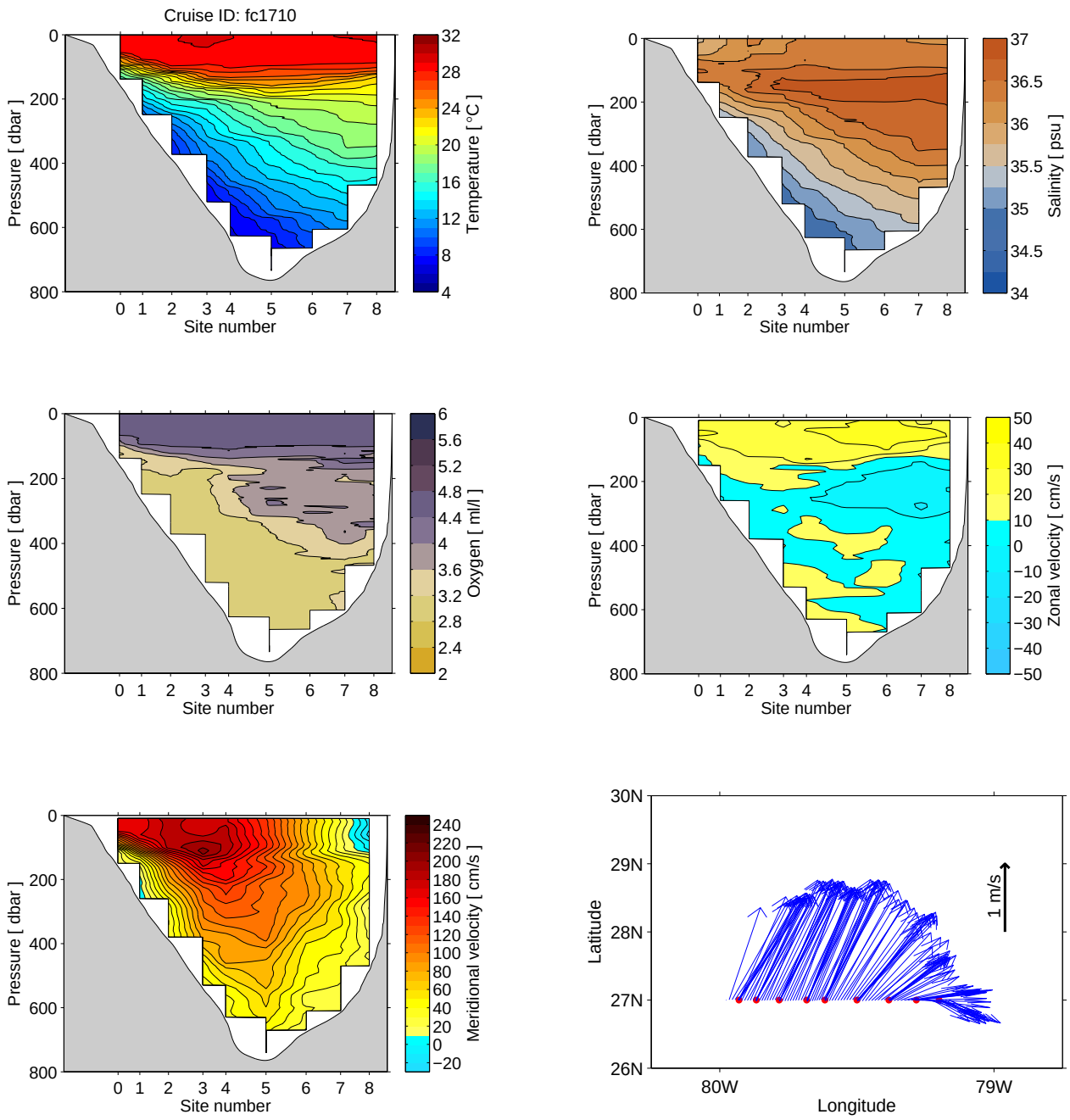

Figure 8: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

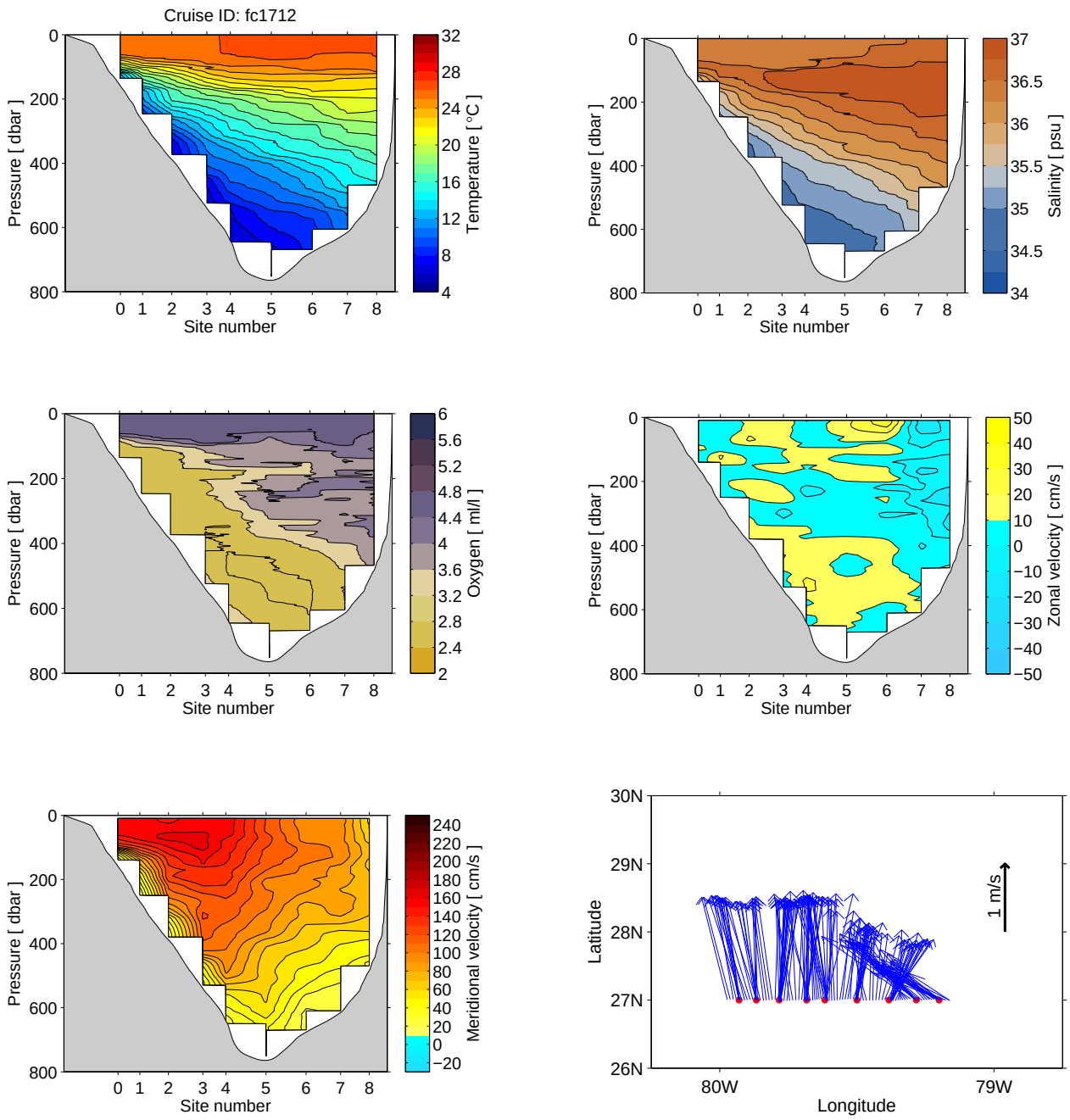

Figure 9: Same as Figure 5 for the data collected on the cruise ID indicated above the temperature panel.

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

The cable voltage recording system failed during 11 days total during this year. As a result, there are no cable transport estimates for the following dates: July 12-20; and September 6-7. Data are available for all other days throughout the year.

5.2 Dropsonde - XBT cruises

Several problems arose during the year involving both the dropsonde and XBT systems.

Electronics issues during the cruise on March 30, 2017, resulted in the failure of the velocity estimate in the last station. Also, electronic issues of the dropsonde system during the cruise on July 24, 2017 resulted in the failure of the velocity estimates at several stations. For these two cruises, no transport was calculated.

During all the cruises of this year (2017) the XBT system failed to record data in at least two of the stations.

5.3 CTD - LADCP - SADCP cruises

During the final cruise of 2017 (fc1712), the hull-mounted SADCP received no secondary heading information. These data are normally supplied by an Applanix POS MV directional GPS. However, during the December survey this instrument was not functioning properly. After careful review of the SADCP data collected during fc1712, it was determined that the instrument's primary heading source (an SG Brown Gyrocompass) was sufficient to produce final SADCP data with a quality 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/0186271).

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/0186568).

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

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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	32.5	37.2	35.0	35.0	34.8	32.3	27.5	28.5	30.3	27.2	31.5	27.2
2	34.1	37.2	35.7	35.1	33.4	31.6	28.8	29.9	31.5	25.8	32.1	26.9
3	36.1	36.2	34.6	35.2	31.9	30.7	29.7	31.0	31.3	25.3	31.4	26.8
4	37.3	34.9	33.7	36.3	31.5	30.4	29.4	31.1	31.1	25.2	29.6	27.9
5	36.2	33.8	34.7	36.1	32.9	31.0	29.2	30.5	31.1	25.3	28.4	29.5
6	35.0	32.9	36.0	35.4	33.7	32.5	30.5	30.4	NaN	25.3	28.5	30.7
7	34.4	32.5	35.9	34.6	32.8	33.0	32.2	31.2	NaN	25.7	29.7	30.5
8	31.1	34.0	36.1	33.2	32.2	31.2	33.7	32.7	30.4	26.2	29.4	28.3
9	28.9	35.9	35.9	30.8	33.4	29.3	35.3	33.5	29.7	26.9	28.6	26.3
10	30.6	35.3	34.5	30.0	34.9	28.8	32.8	33.1	32.7	28.9	27.7	23.8
11	32.7	34.4	33.3	31.5	35.2	29.1	32.5	32.8	34.4	30.9	25.7	23.4
12	34.0	35.1	32.5	33.3	33.1	29.5	NaN	33.0	34.8	30.6	25.1	26.4
13	34.3	34.6	32.5	36.0	30.4	31.0	NaN	33.1	33.2	29.4	26.7	28.3
14	33.8	33.3	33.6	37.1	29.5	33.0	NaN	32.8	33.1	26.4	27.1	29.3
15	34.0	34.1	33.3	35.8	29.6	33.9	NaN	32.8	33.4	24.7	25.8	31.4
16	35.2	34.2	32.0	36.0	30.4	34.3	NaN	33.9	31.9	25.9	25.8	32.8
17	36.7	33.0	31.3	36.2	31.5	33.9	NaN	35.3	30.1	27.1	26.6	32.8
18	37.0	33.1	31.7	35.1	33.1	34.2	NaN	35.8	28.7	26.4	28.5	32.8
19	34.9	33.6	32.0	33.6	34.8	33.7	NaN	35.7	27.5	26.1	30.0	33.4
20	33.0	33.3	30.6	32.1	34.3	32.1	NaN	34.7	27.7	26.5	30.5	32.3
21	33.0	33.8	30.5	32.3	32.4	32.1	31.1	33.6	28.7	28.3	30.1	31.3
22	33.7	34.5	30.9	33.9	31.1	31.0	28.8	33.0	29.0	30.5	29.5	31.1
23	33.2	34.1	30.2	34.6	32.2	30.7	30.8	32.2	27.5	32.8	29.3	31.7
24	31.2	32.5	31.6	34.6	34.9	32.2	32.5	31.3	26.1	34.9	28.4	32.8
25	31.0	30.9	34.6	34.1	35.7	33.3	33.0	31.4	25.2	34.6	26.3	32.9
26	33.8	30.6	35.6	34.6	33.9	33.6	33.3	32.5	24.3	33.2	26.5	32.1
27	34.2	31.6	34.7	36.2	32.6	32.0	33.9	32.9	25.4	32.4	28.4	32.5
28	32.9	33.4	32.5	36.5	32.6	29.5	32.8	31.3	26.2	32.9	28.9	32.5
29	33.7	–	31.2	36.4	32.7	27.5	31.1	29.7	27.2	33.2	28.5	30.7
30	35.7	–	31.2	36.0	33.0	26.8	30.4	28.8	28.2	32.6	28.0	30.3
31	36.8	–	33.0	–	32.5	–	29.2	29.3	–	31.6	–	32.3

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: 2017.03.30								
0	7:21: 4	-79.9300	27.0001	7:29:33	-79.9300	27.0019	0.75	38.45
1	8:16: 5	-79.8667	27.0001	8:30:54	-79.8669	27.0048	-2.26	56.57
2	8:51:38	-79.7836	26.9998	9:13:45	-79.7839	27.0097	-2.43	81.31
3	9:36:36	-79.6834	27.0001	10: 7: 0	-79.6841	27.0158	-4.60	94.81
4	10:26:12	-79.6167	27.0000	11: 2:25	-79.6171	27.0196	-1.57	99.20
5	11:32:49	-79.4999	27.0001	12:14:51	-79.5007	27.0178	-2.59	77.45
6	12:43:42	-79.3834	27.0001	13:21:41	-79.3843	27.0131	-3.79	62.90
7	13:46:33	-79.2833	27.0001	14:20:55	-79.2856	27.0126	-11.20	67.50
8	–	–	–	–	–	–	NaN	NaN
Cruise date: 2017.06.15								
0	19:42:17	-79.9167	27.0014	19:52: 3	-79.9166	27.0067	2.36	98.38
1	19: 4:59	-79.8667	27.0022	19:20:32	-79.8662	27.0114	3.91	108.58
2	18:13:55	-79.7837	27.0015	18:37:10	-79.7832	27.0157	3.67	110.89
3	17:14:39	-79.6837	27.0010	17:45:49	-79.6828	27.0196	4.81	109.31
4	16:15: 3	-79.6163	27.0013	16:51:14	-79.6160	27.0205	1.87	97.42
5	15: 1:33	-79.5000	27.0005	15:45:20	-79.5006	27.0196	-2.37	79.55
6	13:53: 0	-79.3834	27.0007	14:32: 4	-79.3838	27.0158	-1.90	70.93
7	12:53:16	-79.2835	27.0004	13:29:20	-79.2849	27.0127	-7.11	63.01
8	12: 3:42	-79.2000	26.9999	12:31:16	-79.2013	27.0056	-7.81	37.93
Cruise date: 2017.07.06								
0	20:19:25	-79.9168	27.0013	20:30:16	-79.9172	27.0058	-7.03	75.09
1	19:42:44	-79.8672	27.0014	19:59:30	-79.8673	27.0086	-0.34	77.57
2	–	–	–	–	–	–	NaN	NaN
3	17:54: 2	-79.6831	27.0004	18:28:20	-79.6822	27.0212	4.83	111.13
4	16:45: 0	-79.6161	27.0010	17:28: 2	-79.6145	27.0250	5.63	102.34
5	15:28:41	-79.4995	27.0014	16:16:39	-79.4987	27.0242	2.46	86.98
6	–	–	–	–	–	–	NaN	NaN
7	14: 8:18	-79.2835	27.0006	14:45:56	-79.2845	27.0109	-4.47	49.91
8	13:11:36	-79.1999	27.0005	13:40:47	-79.2012	27.0060	-7.79	35.49

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: 2017.07.24								
0	–	–	–	–	–	–	NaN	NaN
1	–	–	–	–	–	–	NaN	NaN
2	–	–	–	–	–	–	NaN	NaN
3	–	–	–	–	–	–	NaN	NaN
4	–	–	–	–	–	–	NaN	NaN
5	20:57:18	-79.5008	27.0012	21:49:45	-79.4988	27.0293	5.98	98.66
6	19:33:41	-79.3838	27.0011	20:29:40	-79.3827	27.0207	2.39	64.68
7	18:22:14	-79.2833	27.0006	19:10:45	-79.2835	27.0110	-1.05	39.07
8	17:23:21	-79.1997	26.9995	17:57:11	-79.2008	27.0034	-5.60	21.39
Cruise date: 2017.08.03								
0	19:31:45	-79.9162	27.0005	19:41: 2	-79.9161	27.0058	1.92	106.69
1	19: 0: 0	-79.8664	27.0014	19:14:25	-79.8664	27.0094	-0.02	101.80
2	18:16:46	-79.7842	27.0003	18:37:29	-79.7845	27.0129	-2.02	111.75
3	17:20:58	-79.6826	27.0010	17:50:30	-79.6828	27.0182	-1.09	107.99
4	16:23:11	-79.6162	27.0011	16:59:27	-79.6163	27.0210	-0.67	101.04
5	15:12:13	-79.5001	27.0002	15:52:53	-79.5018	27.0183	-7.12	81.64
6	14: 4:29	-79.3836	27.0008	14:41:39	-79.3859	27.0113	-10.43	51.54
7	13: 7:32	-79.2833	27.0001	13:40:38	-79.2853	27.0076	-9.93	42.39
8	12:20:48	-79.1983	27.0004	12:46: 7	-79.2001	27.0051	-12.16	35.01
Cruise date: 2017.08.11								
0	11: 6:28	-79.9165	27.0009	11:16: 1	-79.9162	27.0071	5.98	118.06
1	11:34:59	-79.8664	27.0004	11:51: 0	-79.8657	27.0117	6.73	129.07
2	12:12: 8	-79.7835	27.0003	12:33:26	-79.7837	27.0126	-1.48	105.55
3	12:57:23	-79.6833	26.9990	13:27: 2	-79.6838	27.0138	-2.44	91.62
4	13:47:43	-79.6164	26.9994	14:22:38	-79.6173	27.0141	-4.77	77.08
5	14:46: 3	-79.4996	27.0003	15:26:21	-79.5008	27.0162	-5.65	72.33
6	15:49: 3	-79.3823	26.9992	16:26:14	-79.3822	27.0126	0.31	66.12
7	16:48:38	-79.2829	26.9995	17:23: 9	-79.2831	27.0078	-0.47	44.02
8	17:42:41	-79.1994	26.9994	18: 8:51	-79.2006	27.0052	-8.04	42.06

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: 2017.08.16								
0	10:56: 8	-79.9162	27.0007	11: 5:42	-79.9161	27.0056	0.48	93.72
1	11:22:50	-79.8665	27.0001	11:38:45	-79.8663	27.0080	2.17	89.84
2	12:30:26	-79.7832	26.9997	12:53:20	-79.7829	27.0130	2.36	105.75
3	13:11:13	-79.6835	27.0003	13:42: 0	-79.6828	27.0189	3.39	110.93
4	13:56:21	-79.6165	27.0003	14:33:45	-79.6157	27.0200	3.10	96.44
5	14:56:30	-79.4998	27.0001	15:37:22	-79.5001	27.0188	-1.56	83.81
6	16: 5:28	-79.3834	26.9994	16:45:40	-79.3835	27.0163	-1.16	77.39
7	17: 5: 6	-79.2828	27.0000	17:42: 3	-79.2838	27.0118	-4.74	59.02
8	17:56:47	-79.1998	26.9995	18:22:43	-79.2017	27.0053	-12.40	41.51
Cruise date: 2017.08.29								
0	11:21:53	-79.9165	27.0009	11:32:53	-79.9161	27.0076	5.89	111.52
1	18:28:53	-79.8662	27.0010	18:42:37	-79.8653	27.0088	10.73	103.24
2	11:57: 9	-79.7836	27.0009	12:20: 1	-79.7832	27.0154	2.87	117.28
3	12:43:36	-79.6833	27.0008	13:14:18	-79.6831	27.0183	0.94	105.11
4	13:30:44	-79.6165	27.0006	14: 4:58	-79.6165	27.0175	-0.88	91.15
5	14:28:24	-79.4995	27.0008	15: 9:14	-79.4999	27.0157	-1.37	67.39
6	–	–	–	–	–	–	NaN	NaN
7	15:43:10	-79.2826	26.9999	16:15: 9	-79.2841	27.0079	-8.33	45.95
8	16:34:54	-79.1999	27.0007	17: 0:16	-79.2016	27.0062	-10.71	40.29

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

Appendix C:

XBT temperature profiles

Cruise date: 2017.03.30									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	26.12	26.37	26.29	26.31	26.42	26.39	26.21
10	NaN	NaN	26.44	26.50	26.38	26.35	26.34	26.29	26.17
20	NaN	NaN	26.43	26.51	26.37	26.34	26.35	26.29	26.11
30	NaN	NaN	26.44	26.51	26.37	26.34	26.34	26.24	26.06
40	NaN	NaN	26.37	26.51	26.36	26.35	26.32	25.95	26.04
50	NaN	NaN	26.36	26.51	26.34	26.35	26.32	25.98	26.02
60	NaN	NaN	26.32	26.51	26.35	26.32	26.32	25.90	25.89
70	NaN	NaN	26.31	26.52	26.35	26.34	26.32	25.87	25.80
80	NaN	NaN	26.30	26.52	26.35	26.28	26.31	25.87	25.78
90	NaN	NaN	25.90	26.20	26.35	26.25	26.22	25.88	25.62
100	NaN	NaN	25.23	25.96	26.34	26.25	25.67	25.70	25.57
110	NaN	NaN	24.33	25.45	25.97	25.96	25.50	25.51	25.54
120	NaN	NaN	23.06	24.59	25.46	25.26	25.39	25.29	25.45
130	NaN	NaN	22.38	24.11	24.30	24.70	24.92	25.26	24.60
140	–	NaN	21.63	23.64	23.50	23.85	24.54	24.87	24.18
150	–	NaN	20.82	23.05	22.77	23.21	23.79	24.42	23.67
160	–	NaN	19.43	22.10	22.22	22.80	23.09	23.88	23.19
170	–	NaN	17.24	21.15	21.37	22.30	22.41	22.49	22.38
180	–	NaN	16.03	19.93	20.59	21.61	21.63	21.78	21.41
190	–	NaN	14.94	18.53	19.79	21.11	21.33	21.09	20.82
200	–	NaN	13.54	17.55	18.61	20.69	20.81	20.86	20.68
210	–	NaN	12.68	17.15	18.37	20.21	20.38	20.40	20.32
220	–	NaN	11.93	16.61	18.31	19.73	19.97	20.04	20.14
230	–	NaN	11.52	15.66	17.96	19.21	19.62	19.62	20.02
240	–	NaN	11.01	14.65	17.70	18.78	19.28	19.44	19.93
250	–	NaN	10.58	13.99	17.24	18.46	19.18	19.13	19.79
260	–	NaN	10.17	13.55	16.93	18.02	18.96	18.86	19.59
270	–	–	9.89	12.94	16.53	17.46	18.80	18.54	19.28
280	–	–	9.73	12.35	15.77	17.30	18.65	18.45	19.19
290	–	–	9.41	11.78	14.61	17.11	18.10	18.24	18.91
300	–	–	8.86	11.32	14.31	16.80	17.81	18.15	18.60
350	–	–	8.05	9.82	12.70	14.90	16.65	17.55	17.77
400	–	–	–	7.70	10.63	13.34	15.59	16.46	16.72
450	–	–	–	6.96	9.18	10.93	13.23	15.38	15.26
500	–	–	–	6.46	6.93	9.77	12.16	14.02	–
550	–	–	–	–	6.59	8.60	10.32	11.64	–
600	–	–	–	–	6.51	7.86	9.48	11.31	–
650	–	–	–	–	6.19	6.99	7.82	–	–
700	–	–	–	–	–	6.57	NaN	–	–
750	–	–	–	–	–	6.38	–	–	–

Table 8: 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: 2017.06.15									
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	29.39	30.39	29.10	29.41	29.10	28.50	NaN	NaN
10	NaN	28.62	28.59	28.67	28.76	28.58	28.39	NaN	NaN
20	NaN	28.54	28.50	28.62	28.72	28.02	28.37	NaN	NaN
30	NaN	28.29	28.43	28.36	28.32	27.87	27.95	NaN	NaN
40	NaN	27.80	28.03	27.85	27.68	27.71	27.83	NaN	NaN
50	NaN	26.17	27.46	27.44	27.37	27.39	27.59	NaN	NaN
60	NaN	25.57	27.30	27.12	27.02	27.07	27.30	NaN	NaN
70	NaN	24.46	26.43	26.76	26.64	26.81	27.06	NaN	NaN
80	NaN	23.08	25.89	26.51	26.49	26.75	26.81	NaN	NaN
90	NaN	21.86	25.07	26.16	26.36	26.59	26.45	NaN	NaN
100	NaN	19.49	23.84	25.80	26.19	26.40	26.29	NaN	NaN
110	NaN	17.36	23.13	25.23	25.81	26.20	26.01	NaN	NaN
120	NaN	17.04	21.93	24.76	25.29	25.34	25.94	NaN	NaN
130	NaN	16.29	20.65	23.92	24.90	24.98	24.93	NaN	NaN
140	–	16.03	19.45	23.20	24.03	24.51	24.27	NaN	NaN
150	–	15.36	18.52	22.84	23.40	23.61	23.67	NaN	NaN
160	–	14.80	17.57	22.25	22.77	23.34	22.77	NaN	NaN
170	–	13.95	16.85	21.14	21.87	22.49	22.21	NaN	NaN
180	–	13.34	16.22	20.21	21.17	22.00	21.66	NaN	NaN
190	–	12.87	15.63	19.31	20.91	21.44	21.30	NaN	NaN
200	–	12.35	15.02	18.65	20.25	21.07	20.57	NaN	NaN
210	–	11.93	14.36	18.60	19.71	20.79	20.17	NaN	NaN
220	–	11.02	13.56	17.87	19.12	20.29	19.86	NaN	NaN
230	–	10.63	12.95	17.30	18.27	20.07	19.63	NaN	NaN
240	–	9.99	12.77	16.81	17.94	19.51	19.55	NaN	NaN
250	–	9.68	12.34	16.67	17.53	19.10	19.34	NaN	NaN
260	–	9.47	11.96	15.83	17.05	18.48	19.11	NaN	NaN
270	–	–	11.60	15.06	16.20	18.00	18.92	NaN	NaN
280	–	–	11.25	14.01	15.72	17.75	18.73	NaN	NaN
290	–	–	11.13	13.47	15.36	17.30	18.28	NaN	NaN
300	–	–	11.01	12.99	14.83	16.78	18.10	NaN	NaN
350	–	–	9.06	11.67	13.00	15.74	17.05	NaN	NaN
400	–	–	–	10.77	11.45	14.71	15.81	NaN	NaN
450	–	–	–	9.47	10.31	12.19	14.96	NaN	NaN
500	–	–	–	7.66	9.42	10.67	13.12	NaN	–
550	–	–	–	–	8.77	9.63	11.67	NaN	–
600	–	–	–	–	7.18	8.62	10.85	NaN	–
650	–	–	–	–	6.59	7.67	10.64	–	–
700	–	–	–	–	–	7.15	NaN	–	–
750	–	–	–	–	–	6.84	–	–	–

Table 9: Same as Table 8 for the cruise on the indicated date.

Cruise date: 2017.07.06									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	30.65	30.75	30.39	30.01	NaN	NaN	NaN	NaN
10	NaN	29.43	29.53	29.36	29.25	NaN	NaN	NaN	NaN
20	NaN	29.26	29.51	29.31	29.21	NaN	NaN	NaN	NaN
30	NaN	26.94	29.47	29.29	29.04	NaN	NaN	NaN	NaN
40	NaN	26.66	27.30	28.82	28.41	NaN	NaN	NaN	NaN
50	NaN	25.65	27.47	28.37	28.36	NaN	NaN	NaN	NaN
60	NaN	23.83	26.20	27.81	28.23	NaN	NaN	NaN	NaN
70	NaN	22.53	25.36	27.11	28.11	NaN	NaN	NaN	NaN
80	NaN	21.59	24.74	26.72	27.66	NaN	NaN	NaN	NaN
90	NaN	20.63	23.85	26.05	27.10	NaN	NaN	NaN	NaN
100	NaN	19.55	23.03	25.21	26.67	NaN	NaN	NaN	NaN
110	NaN	18.94	21.13	24.63	25.84	NaN	NaN	NaN	NaN
120	NaN	18.06	20.74	24.01	25.01	NaN	NaN	NaN	NaN
130	NaN	17.44	20.10	23.47	24.18	NaN	NaN	NaN	NaN
140	–	16.70	19.45	22.70	23.68	NaN	NaN	NaN	NaN
150	–	15.51	18.25	22.06	23.42	NaN	NaN	NaN	NaN
160	–	15.02	17.56	21.05	22.77	NaN	NaN	NaN	NaN
170	–	14.57	17.31	20.57	22.43	NaN	NaN	NaN	NaN
180	–	14.26	17.07	19.33	22.04	NaN	NaN	NaN	NaN
190	–	13.87	16.07	19.10	20.42	NaN	NaN	NaN	NaN
200	–	13.27	15.32	18.85	19.47	NaN	NaN	NaN	NaN
210	–	13.15	14.63	18.25	18.27	NaN	NaN	NaN	NaN
220	–	13.06	13.85	17.65	17.79	NaN	NaN	NaN	NaN
230	–	12.19	13.38	16.56	17.59	NaN	NaN	NaN	NaN
240	–	11.63	12.89	15.97	17.31	NaN	NaN	NaN	NaN
250	–	11.07	12.64	14.74	16.95	NaN	NaN	NaN	NaN
260	–	10.54	12.21	14.07	16.67	NaN	NaN	NaN	NaN
270	–	–	11.72	13.42	16.43	NaN	NaN	NaN	NaN
280	–	–	11.21	12.82	15.53	NaN	NaN	NaN	NaN
290	–	–	10.74	12.71	14.66	NaN	NaN	NaN	NaN
300	–	–	10.39	12.57	14.48	NaN	NaN	NaN	NaN
350	–	–	8.97	10.66	12.08	NaN	NaN	NaN	NaN
400	–	–	–	9.47	10.85	NaN	NaN	NaN	NaN
450	–	–	–	8.48	9.63	NaN	NaN	NaN	NaN
500	–	–	–	7.75	9.01	NaN	NaN	NaN	–
550	–	–	–	–	8.23	NaN	NaN	NaN	–
600	–	–	–	–	7.78	NaN	NaN	NaN	–
650	–	–	–	–	6.49	NaN	NaN	–	–
700	–	–	–	–	–	NaN	NaN	–	–
750	–	–	–	–	–	NaN	–	–	–

Table 10: Same as Table 8 for the cruise on the indicated date.

Cruise date: 2017.07.24									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	30.77	31.30	30.96	30.82	29.99	29.88	29.82	NaN
10	NaN	30.17	30.00	29.95	29.64	29.62	29.52	29.68	NaN
20	NaN	28.47	29.71	29.76	28.53	29.40	29.44	29.33	NaN
30	NaN	28.04	28.27	29.17	28.31	28.90	29.16	28.85	NaN
40	NaN	27.54	27.85	28.80	28.01	27.97	28.63	28.77	NaN
50	NaN	26.69	27.37	28.31	27.73	27.61	28.51	28.71	NaN
60	NaN	24.96	26.93	27.59	26.94	27.38	27.87	28.37	NaN
70	NaN	23.35	24.35	27.02	26.20	27.35	27.46	28.17	NaN
80	NaN	20.85	23.84	26.52	25.75	27.23	27.09	27.88	NaN
90	NaN	19.52	23.42	25.77	25.36	26.70	26.74	27.45	NaN
100	NaN	18.85	22.74	25.05	25.04	26.53	26.54	26.67	NaN
110	NaN	18.04	22.01	24.76	24.87	25.69	26.12	25.69	NaN
120	NaN	17.40	20.93	24.43	24.44	24.85	25.24	25.18	NaN
130	NaN	16.69	19.34	23.55	23.94	24.21	24.68	24.88	NaN
140	–	16.03	17.86	21.96	23.59	23.94	24.06	24.55	NaN
150	–	15.63	17.06	21.43	23.09	23.46	23.59	24.03	NaN
160	–	15.23	16.36	21.16	22.26	23.01	23.17	23.54	NaN
170	–	14.93	15.72	20.59	22.11	22.41	22.44	22.70	NaN
180	–	14.45	15.15	19.42	21.12	21.69	22.15	22.36	NaN
190	–	13.96	15.04	18.55	20.41	20.68	21.34	22.28	NaN
200	–	13.48	14.47	17.45	19.78	20.48	20.58	21.85	NaN
210	–	12.48	13.70	16.81	19.48	19.99	19.93	21.37	NaN
220	–	11.75	13.03	16.44	18.97	19.57	19.72	20.81	NaN
230	–	10.73	12.67	15.93	18.62	18.88	18.80	20.26	NaN
240	–	9.80	12.47	15.55	18.27	18.53	18.54	19.45	NaN
250	–	9.56	11.78	14.95	17.88	18.24	18.48	19.33	NaN
260	–	9.11	11.02	14.33	17.57	17.63	18.25	18.85	NaN
270	–	–	10.43	13.84	16.79	17.45	18.12	18.71	NaN
280	–	–	10.24	13.34	16.47	17.32	17.89	18.61	NaN
290	–	–	9.68	12.84	16.26	17.28	17.59	18.44	NaN
300	–	–	9.03	12.57	15.98	17.21	17.45	18.36	NaN
350	–	–	7.40	9.51	13.80	16.17	16.98	17.70	NaN
400	–	–	–	8.32	9.80	14.68	16.11	17.19	NaN
450	–	–	–	7.42	8.80	12.43	14.56	15.82	NaN
500	–	–	–	6.96	8.20	11.39	13.60	14.87	–
550	–	–	–	–	7.76	9.68	12.11	13.81	–
600	–	–	–	–	6.98	8.85	9.90	12.72	–
650	–	–	–	–	6.55	7.92	9.60	–	–
700	–	–	–	–	–	7.55	NaN	–	–
750	–	–	–	–	–	6.80	–	–	–

Table 11: Same as Table 8 for the cruise on the indicated date.

Cruise date: 2017.08.03									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	31.74	30.97	30.46	30.78	29.86	30.00	NaN	NaN
10	NaN	30.38	30.41	29.93	30.36	29.45	29.80	NaN	NaN
20	NaN	29.62	29.27	29.74	30.05	29.38	29.61	NaN	NaN
30	NaN	28.70	29.03	29.38	29.70	28.86	29.03	NaN	NaN
40	NaN	28.21	29.09	28.49	28.75	28.63	28.68	NaN	NaN
50	NaN	27.77	28.73	28.47	28.24	28.30	28.31	NaN	NaN
60	NaN	26.65	28.13	28.11	28.16	28.10	28.21	NaN	NaN
70	NaN	26.12	27.52	27.85	27.55	27.68	27.59	NaN	NaN
80	NaN	25.11	26.58	26.96	27.06	27.34	27.30	NaN	NaN
90	NaN	24.52	26.02	26.54	27.00	26.87	26.52	NaN	NaN
100	NaN	23.37	25.50	26.36	27.07	26.67	26.00	NaN	NaN
110	NaN	22.54	24.58	25.77	26.28	26.40	25.73	NaN	NaN
120	NaN	22.04	23.93	25.37	25.77	26.09	25.37	NaN	NaN
130	NaN	21.63	23.26	24.62	25.20	24.84	25.03	NaN	NaN
140	–	20.71	22.89	24.26	24.74	24.47	24.38	NaN	NaN
150	–	19.44	22.04	23.04	23.89	23.74	23.77	NaN	NaN
160	–	17.90	21.13	22.32	22.04	23.27	22.86	NaN	NaN
170	–	17.01	19.94	22.48	21.84	21.97	21.93	NaN	NaN
180	–	16.55	19.04	21.61	20.84	21.69	21.27	NaN	NaN
190	–	15.67	18.63	21.11	20.11	21.01	20.70	NaN	NaN
200	–	14.92	18.27	20.29	19.45	20.49	20.35	NaN	NaN
210	–	14.72	17.40	19.87	18.70	19.96	20.11	NaN	NaN
220	–	14.52	16.81	19.52	18.37	19.60	19.79	NaN	NaN
230	–	14.13	16.53	18.69	18.13	19.36	19.62	NaN	NaN
240	–	13.57	15.77	18.22	17.91	19.20	19.37	NaN	NaN
250	–	13.09	15.43	17.91	17.72	18.95	19.25	NaN	NaN
260	–	12.55	14.72	17.79	17.46	18.87	19.09	NaN	NaN
270	–	–	14.18	17.60	16.96	18.79	18.98	NaN	NaN
280	–	–	13.84	17.35	16.59	18.59	18.88	NaN	NaN
290	–	–	13.01	17.06	16.45	18.51	18.86	NaN	NaN
300	–	–	12.45	16.82	15.97	18.23	18.77	NaN	NaN
350	–	–	9.14	14.94	14.37	16.89	17.76	NaN	NaN
400	–	–	–	13.78	11.37	15.29	16.30	NaN	NaN
450	–	–	–	11.75	8.64	13.92	15.61	NaN	NaN
500	–	–	–	9.34	7.50	12.54	13.94	NaN	–
550	–	–	–	–	6.63	11.22	12.96	NaN	–
600	–	–	–	–	6.71	8.89	11.10	NaN	–
650	–	–	–	–	6.73	7.71	9.70	–	–
700	–	–	–	–	–	6.96	8.77	–	–
750	–	–	–	–	–	6.51	–	–	–

Table 12: Same as Table 8 for the cruise on the indicated date.

Cruise date: 2017.08.11									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	29.31	29.65	29.47	29.94	29.88	30.06	30.37
10	NaN	NaN	29.67	30.05	29.89	29.95	30.02	29.79	29.95
20	NaN	NaN	29.77	30.05	29.90	29.92	30.01	29.45	29.87
30	NaN	NaN	29.75	30.05	29.88	29.89	30.01	29.70	29.79
40	NaN	NaN	28.84	29.68	29.18	29.88	29.76	29.85	29.62
50	NaN	NaN	27.42	28.77	28.27	28.93	29.11	29.59	29.95
60	NaN	NaN	26.45	28.04	27.62	28.60	28.58	29.22	30.01
70	NaN	NaN	25.64	27.31	26.76	28.22	27.71	28.86	29.98
80	NaN	NaN	24.19	26.70	26.03	27.70	27.21	28.31	28.53
90	NaN	NaN	23.08	26.03	25.16	27.39	26.79	28.20	28.02
100	NaN	NaN	21.88	25.31	24.18	26.61	26.23	26.91	26.86
110	NaN	NaN	20.58	24.61	22.78	24.54	25.36	25.26	25.74
120	NaN	NaN	19.65	22.96	20.81	24.15	24.37	23.98	24.50
130	NaN	NaN	18.76	21.81	19.65	23.05	23.39	23.35	24.07
140	–	NaN	17.74	20.81	19.03	22.50	22.68	23.31	23.53
150	–	NaN	17.56	20.34	17.97	22.13	22.04	23.14	22.81
160	–	NaN	17.21	18.91	17.62	21.90	21.33	22.93	22.27
170	–	NaN	16.54	18.05	17.56	21.56	20.09	22.73	21.73
180	–	NaN	16.10	17.62	17.36	21.46	18.92	22.01	21.47
190	–	NaN	15.54	17.29	16.96	20.80	18.47	21.87	21.19
200	–	NaN	15.11	17.19	16.54	20.37	18.13	21.59	20.88
210	–	NaN	15.02	17.03	16.17	20.20	17.72	21.18	20.46
220	–	NaN	14.64	16.79	15.97	19.87	17.61	20.73	20.13
230	–	NaN	14.33	16.48	15.89	19.37	17.31	20.24	19.92
240	–	NaN	13.91	16.29	15.77	19.31	17.12	20.05	19.54
250	–	NaN	13.58	16.16	15.43	19.05	17.03	19.63	19.36
260	–	NaN	13.22	15.85	14.85	18.88	17.01	19.31	19.25
270	–	–	12.97	15.68	14.81	18.73	16.85	19.12	18.98
280	–	–	12.86	15.47	14.30	18.17	16.48	18.97	18.76
290	–	–	12.58	15.35	13.59	18.00	16.19	18.72	18.54
300	–	–	11.58	15.11	13.39	17.30	15.93	18.57	18.40
350	–	–	9.77	13.35	12.56	15.69	14.71	17.94	17.23
400	–	–	–	12.37	10.53	14.43	13.68	16.83	16.11
450	–	–	–	11.22	9.03	13.93	12.50	16.00	14.87
500	–	–	–	8.80	8.22	13.26	11.51	NaN	–
550	–	–	–	–	6.57	12.43	10.14	NaN	–
600	–	–	–	–	NaN	11.15	9.22	NaN	–
650	–	–	–	–	NaN	7.87	7.51	–	–
700	–	–	–	–	–	NaN	6.71	–	–
750	–	–	–	–	–	NaN	–	–	–

Table 13: Same as Table 8 for the cruise on the indicated date.

Cruise date: 2017.08.16									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	NaN	30.46	30.60	31.14	31.40	31.01	32.13	33.80
10	NaN	NaN	30.31	30.51	30.47	30.32	30.36	30.27	30.06
20	NaN	NaN	30.20	30.30	30.20	30.03	30.11	30.22	30.04
30	NaN	NaN	30.05	30.23	30.10	29.45	29.71	30.04	30.00
40	NaN	NaN	28.38	29.30	29.27	28.98	28.85	29.65	29.93
50	NaN	NaN	27.22	28.38	28.77	28.70	28.40	29.41	29.10
60	NaN	NaN	26.22	27.59	28.24	28.35	27.99	28.56	27.28
70	NaN	NaN	25.72	26.95	27.27	27.39	27.53	26.61	26.72
80	NaN	NaN	24.94	26.13	26.44	26.71	26.84	26.47	25.83
90	NaN	NaN	23.61	25.41	25.71	26.35	26.38	25.74	25.44
100	NaN	NaN	21.89	24.91	25.12	25.92	25.57	25.28	25.02
110	NaN	NaN	20.62	24.13	24.96	25.46	25.21	24.62	24.71
120	NaN	NaN	18.57	23.46	24.29	25.11	24.97	24.07	24.51
130	NaN	NaN	17.45	22.97	23.85	24.54	24.44	24.03	24.22
140	–	NaN	16.00	21.69	22.72	23.88	23.80	23.96	23.81
150	–	NaN	14.80	21.12	22.23	23.50	23.54	23.76	23.37
160	–	NaN	14.26	20.29	21.19	22.88	23.22	23.42	23.08
170	–	NaN	13.63	18.55	20.51	22.43	23.19	23.36	23.04
180	–	NaN	13.14	18.21	19.94	21.77	22.84	22.39	22.60
190	–	NaN	12.91	17.32	19.04	21.48	22.40	22.29	22.47
200	–	NaN	12.28	16.98	18.61	21.11	22.18	22.29	22.29
210	–	NaN	11.77	16.45	18.45	20.46	21.30	22.29	21.87
220	–	NaN	11.47	15.82	18.14	19.72	20.95	22.26	21.09
230	–	NaN	11.13	15.38	17.60	19.41	20.67	21.18	20.51
240	–	NaN	10.93	14.64	17.04	19.12	20.18	20.14	20.32
250	–	NaN	10.65	14.03	16.55	18.57	19.78	20.04	20.11
260	–	NaN	10.30	13.45	15.93	17.93	19.10	19.72	19.54
270	–	–	9.97	12.68	15.65	17.29	18.95	19.47	19.32
280	–	–	9.75	11.90	15.34	17.05	18.59	19.14	19.25
290	–	–	9.66	11.63	15.02	16.87	18.36	18.90	19.13
300	–	–	9.63	11.53	13.95	16.81	17.98	18.71	18.94
350	–	–	8.57	10.39	11.27	15.14	17.14	18.11	18.28
400	–	–	–	8.96	10.32	11.93	15.35	16.81	17.53
450	–	–	–	8.18	9.26	10.69	13.57	15.07	16.20
500	–	–	–	7.37	8.34	9.51	11.86	13.78	–
550	–	–	–	–	7.59	8.68	10.27	12.37	–
600	–	–	–	–	6.92	7.92	9.06	11.47	–
650	–	–	–	–	6.17	6.82	8.24	–	–
700	–	–	–	–	–	6.73	NaN	–	–
750	–	–	–	–	–	6.36	–	–	–

Table 14: Same as Table 8 for the cruise on the indicated date.

Cruise date: 2017.08.29									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	31.13	NaN	29.91	29.84	29.86	NaN	30.00	29.92
10	NaN	30.45	NaN	29.98	29.93	30.07	NaN	29.68	29.57
20	NaN	30.41	NaN	29.80	30.00	29.95	NaN	29.66	29.56
30	NaN	29.31	NaN	29.54	29.70	29.65	NaN	29.78	29.60
40	NaN	27.71	NaN	29.28	28.98	28.69	NaN	29.81	29.67
50	NaN	26.12	NaN	28.47	28.50	28.53	NaN	29.73	29.72
60	NaN	25.22	NaN	27.79	27.85	28.56	NaN	28.07	29.26
70	NaN	24.52	NaN	27.05	27.17	27.77	NaN	27.76	27.62
80	NaN	24.08	NaN	26.28	26.49	27.36	NaN	27.08	26.55
90	NaN	23.62	NaN	25.41	25.98	26.50	NaN	26.74	25.70
100	NaN	21.95	NaN	23.84	25.39	25.85	NaN	26.09	25.27
110	NaN	21.02	NaN	23.24	24.97	25.15	NaN	25.36	24.89
120	NaN	20.21	NaN	23.59	23.94	24.51	NaN	24.78	24.47
130	NaN	19.79	NaN	23.03	23.53	23.54	NaN	24.38	24.12
140	–	19.09	NaN	21.95	22.79	23.23	NaN	23.58	23.95
150	–	17.67	NaN	21.38	22.50	22.72	NaN	23.13	23.38
160	–	16.71	NaN	20.82	21.85	22.29	NaN	22.68	22.90
170	–	15.73	NaN	20.40	20.85	21.94	NaN	22.25	22.45
180	–	14.69	NaN	19.70	19.95	21.73	NaN	21.78	22.05
190	–	13.95	NaN	19.16	19.73	21.21	NaN	21.20	21.58
200	–	13.65	NaN	18.17	19.18	20.46	NaN	20.84	21.31
210	–	13.27	NaN	17.41	18.60	20.06	NaN	20.45	20.68
220	–	12.46	NaN	17.29	18.14	19.62	NaN	20.31	20.25
230	–	12.24	NaN	16.96	17.81	19.21	NaN	20.03	20.07
240	–	11.42	NaN	16.69	17.50	18.75	NaN	19.80	19.92
250	–	10.71	NaN	16.57	17.28	18.55	NaN	19.62	19.68
260	–	10.15	NaN	16.46	16.96	18.15	NaN	19.44	19.36
270	–	–	NaN	16.21	16.69	17.81	NaN	19.12	19.22
280	–	–	NaN	16.02	16.50	17.42	NaN	19.01	19.05
290	–	–	NaN	15.77	16.27	17.17	NaN	18.61	18.86
300	–	–	NaN	15.48	15.84	16.89	NaN	18.37	18.46
350	–	–	NaN	11.57	13.51	15.60	NaN	17.63	17.87
400	–	–	–	9.76	12.04	14.23	NaN	16.03	16.98
450	–	–	–	8.86	10.22	13.02	NaN	15.22	16.03
500	–	–	–	8.25	9.39	11.56	NaN	14.31	–
550	–	–	–	–	8.47	10.59	NaN	12.96	–
600	–	–	–	–	8.16	9.67	NaN	11.39	–
650	–	–	–	–	7.29	9.38	NaN	–	–
700	–	–	–	–	–	8.57	NaN	–	–
750	–	–	–	–	–	6.96	–	–	–

Table 15: Same as Table 8 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: 2017.02.08								
0	12:11: 4	-79.9290	26.9944	12:22:43	-79.9287	27.0038	-6.54	113.66
1	11: 9:46	-79.8670	26.9934	11:27:24	-79.8674	27.0079	-5.13	93.29
2	9:12:55	-79.7840	26.9856	9:39:13	-79.7810	27.0120	-1.74	107.67
3	7:29:36	-79.6835	26.9797	8: 1:15	-79.6802	27.0122	-0.15	117.36
4	5:39:13	-79.6173	26.9850	6:16:22	-79.6139	27.0233	-0.03	113.17
5	3:24:53	-79.4983	26.9955	4: 7:34	-79.4930	27.0339	-2.80	91.06
6	1:26:58	-79.3837	26.9955	2: 6:53	-79.3839	27.0241	-0.35	66.05
7	23:54:49	-79.2849	26.9971	0:27:46	-79.2833	27.0110	-3.09	43.01
8	22:25:19	-79.2025	26.9984	22:54:57	-79.1973	27.0041	-4.27	28.35
Cruise date: 2017.06.16								
0	7:23: 2	-79.9289	26.9957	7:30:41	-79.9297	27.0021	-2.12	99.22
1	6:27:48	-79.8663	26.9919	6:39: 3	-79.8669	27.0014	-3.04	101.05
2	5: 6:37	-79.7823	26.9861	5:25: 9	-79.7818	27.0016	-0.25	103.90
3	3:35: 5	-79.6830	26.9906	3:58:15	-79.6820	27.0094	0.28	107.84
4	2:16:52	-79.6176	26.9877	2:45:47	-79.6160	27.0103	0.13	100.76
5	0:29:16	-79.4991	26.9874	0:59:38	-79.4942	27.0084	0.82	88.61
6	22:56: 7	-79.3858	26.9951	23:21:30	-79.3830	27.0065	-5.41	76.53
7	21:26:23	-79.2832	26.9970	21:50:25	-79.2836	27.0043	-8.73	62.08
8	20: 4:26	-79.2057	26.9992	20:27:40	-79.2055	27.0047	-7.88	37.00
Cruise date: 2017.07.21								
0	11: 8:12	-79.9287	26.9964	11:24:28	-79.9284	27.0115	4.29	81.75
1	9:48:16	-79.8667	26.9979	10: 9:47	-79.8674	27.0184	5.97	89.64
2	8:16:52	-79.7835	26.9919	8:39:59	-79.7829	27.0139	4.52	103.30
3	6:24: 1	-79.6825	26.9879	6:54:32	-79.6827	27.0132	0.73	101.93
4	4:49:28	-79.6153	26.9911	5:22:24	-79.6157	27.0175	-0.01	91.21
5	3: 0: 2	-79.5067	26.9866	3:39:39	-79.5079	27.0133	-1.32	71.34
6	0:19:36	-79.3838	26.9898	0:53:47	-79.3869	27.0028	-0.02	54.89
7	22:48: 9	-79.2838	26.9939	23:18:55	-79.2871	26.9994	0.34	39.47
8	21:24:59	-79.2003	26.9954	21:51:29	-79.2006	26.9944	1.64	17.99

Table 16: 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: 2017.10.17								
0	10:55: 2	-79.9295	26.9999	11: 5:30	-79.9285	27.0061	5.82	81.89
1	9:53:24	-79.8678	26.9883	10: 7:44	-79.8671	26.9976	5.16	63.63
2	8:38:24	-79.7820	26.9866	8:59:19	-79.7800	27.0023	4.59	88.82
3	7:13:37	-79.6814	26.9830	7:37:31	-79.6805	27.0012	2.91	106.17
4	5:56:48	-79.6161	26.9900	6:24:31	-79.6149	27.0096	3.25	101.36
5	4:17: 2	-79.4978	26.9869	4:49:32	-79.4964	27.0060	1.04	82.28
6	2:40:41	-79.3815	26.9913	3:14:17	-79.3808	27.0032	0.56	49.86
7	1:22:38	-79.2837	26.9974	1:53:22	-79.2884	27.0014	-5.36	29.91
8	0:13:56	-79.2005	27.0020	0:38:16	-79.2018	26.9999	-3.81	5.04
Cruise date: 2017.12.21								
0	11:32: 6	-79.9304	26.9976	11:43:54	-79.9286	27.0075	-5.80	105.49
1	10:29:20	-79.8679	26.9949	10:47:47	-79.8655	27.0090	-2.89	81.17
2	9:10:53	-79.7834	26.9865	9:33:13	-79.7784	27.0057	0.83	98.66
3	6:59:51	-79.6874	26.9819	7:27:40	-79.6793	27.0058	0.47	106.68
4	5:19:55	-79.6126	26.9927	5:53:48	-79.6071	27.0242	-0.88	95.98
5	3:25:44	-79.5038	26.9958	4: 4:39	-79.4984	27.0224	-0.09	72.17
6	1:33:43	-79.3794	26.9863	2: 7:26	-79.3717	27.0057	0.75	56.44
7	23:58:53	-79.2841	26.9962	0:32:10	-79.2876	27.0206	-9.71	56.59
8	22:35:33	-79.2017	27.0007	22:58:30	-79.2016	27.0128	-14.61	52.36

Table 17: Same as Table 16 for LADCP data collected on the indicated dates.

Appendix E:

CTD and LADCP profiles

Cruise ID: fc1702. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.80	36.39	4.60	NaN	NaN
10	25.80	36.39	4.60	-13.0	157.6
20	24.79	36.44	4.68	-11.9	153.8
30	24.24	36.48	4.75	-14.0	152.1
40	24.16	36.50	4.65	-12.8	151.1
50	24.02	36.48	4.72	-12.6	150.1
60	23.88	36.49	4.60	-12.7	148.2
70	22.83	36.29	4.58	-11.3	144.9
80	22.87	36.38	4.48	-6.2	135.7
90	21.80	36.38	4.30	-3.8	122.0
100	19.89	36.28	3.81	-0.6	99.9
110	17.18	36.08	3.42	0.2	63.4
120	14.76	35.87	3.14	1.8	47.9
130	13.58	35.74	2.93	3.1	38.3
140	11.96	35.51	2.91	2.2	26.1

Table 18: 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: fc1702. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.03	36.39	4.58	NaN	NaN
10	26.04	36.39	4.59	-9.9	187.9
20	26.04	36.39	4.59	-12.7	186.0
30	26.04	36.39	4.58	-12.3	182.5
40	24.98	36.44	4.67	-9.8	172.5
50	24.47	36.47	4.70	-8.6	160.5
60	24.17	36.48	4.74	-9.4	156.9
70	24.13	36.51	4.71	-10.0	154.9
80	23.98	36.49	4.67	-10.0	150.9
90	23.54	36.54	4.33	-8.7	142.5
100	22.45	36.36	4.58	-7.0	135.7
110	22.20	36.39	4.69	-5.5	126.8
120	20.72	36.27	4.19	-5.4	111.7
130	17.74	36.12	3.54	-5.0	93.9
140	16.16	36.01	3.30	-4.2	77.5
150	15.23	35.93	3.17	-3.9	65.8
160	13.80	35.75	3.05	-4.4	55.1
170	13.49	35.72	2.99	-3.6	48.6
180	13.14	35.67	2.96	-3.6	45.3
190	13.10	35.67	2.95	-3.9	41.9
200	12.35	35.55	2.92	-2.9	33.8
210	11.23	35.39	2.87	-1.4	23.1
220	10.52	35.30	2.86	-0.1	18.7
230	9.81	35.20	2.85	1.7	14.2
240	9.35	35.15	2.86	4.4	12.1
250	NaN	NaN	NaN	1.5	13.5
260	NaN	NaN	NaN	1.4	13.6

Table 19: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.33	36.42	4.53	NaN	NaN
10	26.34	36.42	4.54	-3.2	188.8
20	26.34	36.42	4.55	-2.3	189.5
30	26.34	36.42	4.55	-2.2	189.9
40	26.34	36.42	4.55	-2.8	190.7
50	26.31	36.43	4.54	-3.0	184.4
60	24.59	36.51	4.66	-1.4	172.7
70	24.52	36.53	4.65	1.2	168.8
80	24.48	36.53	4.66	1.9	167.1
90	24.44	36.53	4.66	1.1	166.3
100	24.26	36.51	4.57	-0.2	166.4
110	23.92	36.55	4.31	-0.6	163.8
120	22.98	36.63	4.04	-1.6	159.0
130	22.12	36.70	3.60	0.8	156.4
140	21.58	36.69	3.54	1.7	152.7
150	19.36	36.43	3.56	-1.4	146.8
160	18.24	36.37	3.32	-0.5	141.9
170	17.08	36.23	3.26	1.9	132.3
180	16.13	36.06	3.22	-0.2	120.6
190	15.19	35.93	3.16	-2.2	108.9
200	14.00	35.80	3.02	-1.5	100.1
210	13.33	35.70	2.94	-0.3	92.2
220	13.05	35.65	2.89	-1.1	87.0
230	12.62	35.59	2.89	-0.9	82.8
240	12.28	35.53	2.84	-0.9	78.8
250	12.15	35.51	2.86	-2.6	73.3
260	12.06	35.50	2.87	-5.4	68.1
270	11.44	35.41	2.86	-7.1	62.6
280	10.95	35.35	2.86	-6.3	59.6
290	10.56	35.30	2.86	-4.0	56.9
300	10.18	35.25	2.87	0.3	51.3
350	7.71	34.95	2.91	-5.8	21.9

Table 20: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.33	36.41	4.55	NaN	NaN
10	26.33	36.41	4.55	7.1	178.7
20	26.34	36.41	4.56	7.1	178.4
30	26.34	36.41	4.55	6.9	178.9
40	26.34	36.41	4.56	6.3	179.0
50	26.34	36.41	4.55	6.0	179.0
60	26.34	36.41	4.55	6.3	177.3
70	25.81	36.43	4.51	5.1	172.1
80	24.42	36.49	4.71	6.7	158.3
90	24.31	36.50	4.69	6.8	150.1
100	24.11	36.49	4.68	7.0	146.8
110	24.45	36.88	3.94	7.3	150.1
120	23.40	36.87	3.63	6.6	158.0
130	22.70	36.87	3.55	3.3	159.4
140	22.02	36.86	3.51	-3.3	159.8
150	21.36	36.83	3.47	-10.1	159.1
160	20.38	36.70	3.28	-11.0	159.4
170	19.99	36.68	3.23	-9.0	163.2
180	19.81	36.71	3.36	-4.3	165.4
190	19.04	36.62	3.47	-2.4	163.8
200	18.32	36.53	3.48	-2.2	160.9
210	17.98	36.50	3.76	0.2	156.7
220	17.73	36.45	3.70	2.1	153.2
230	17.30	36.37	3.48	5.9	147.3
240	16.86	36.29	3.39	7.4	140.7
250	16.44	36.22	3.37	5.8	134.7
260	15.93	36.13	3.33	4.8	126.2
270	14.87	35.95	3.18	2.9	115.9
280	14.10	35.82	2.99	-1.1	108.8
290	13.73	35.76	2.89	-6.0	106.0
300	13.48	35.72	2.85	-8.4	104.9
350	11.81	35.45	2.81	3.2	98.7
400	10.53	35.28	2.83	-5.2	74.0
450	8.58	35.05	2.89	-4.8	57.8
500	7.48	34.94	2.97	-1.4	46.3

Table 21: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.33	36.39	4.54	NaN	NaN
10	26.33	36.39	4.56	9.9	159.7
20	26.33	36.39	4.56	10.3	162.6
30	26.33	36.39	4.56	9.0	165.0
40	26.34	36.39	4.55	9.5	164.4
50	26.34	36.39	4.55	9.5	164.3
60	26.34	36.39	4.55	9.0	163.9
70	26.34	36.39	4.56	9.0	163.7
80	25.11	36.44	4.62	9.9	160.7
90	25.19	36.74	3.98	9.2	155.4
100	24.74	36.85	3.74	7.7	153.2
110	24.24	36.86	3.74	4.2	155.6
120	23.85	36.89	3.65	-0.5	157.7
130	22.93	36.91	3.57	-0.7	157.6
140	22.15	36.92	3.53	-4.1	158.1
150	21.96	36.91	3.47	-2.7	158.9
160	21.21	36.86	3.53	-2.6	155.5
170	20.27	36.77	3.49	-6.0	152.0
180	19.77	36.71	3.46	-7.9	152.0
190	19.57	36.69	3.47	-5.1	153.1
200	19.16	36.64	3.51	-1.8	151.8
210	19.00	36.63	3.66	-2.8	148.8
220	18.52	36.56	3.65	-5.3	148.4
230	18.25	36.53	3.66	-3.7	148.0
240	17.99	36.48	3.59	-1.2	144.3
250	17.52	36.42	3.70	-0.0	140.7
260	17.26	36.38	3.74	-1.5	138.9
270	16.82	36.30	3.54	-1.8	137.7
280	16.44	36.23	3.51	2.0	134.9
290	15.92	36.14	3.42	5.2	130.4
300	15.58	36.08	3.34	5.8	124.0
350	13.82	35.77	2.94	-4.6	98.9
400	12.28	35.53	2.76	-5.2	99.9
450	10.86	35.31	2.83	-2.7	86.7
500	9.27	35.11	2.83	-1.8	69.9
550	7.77	34.96	2.94	-3.3	54.5
600	7.29	34.93	3.02	5.8	49.8

Table 22: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.29	36.41	4.56	NaN	NaN
10	26.30	36.40	4.55	20.1	131.8
20	26.30	36.40	4.57	16.5	134.0
30	26.30	36.40	4.57	13.1	133.7
40	26.26	36.40	4.57	11.7	135.8
50	26.26	36.41	4.56	10.7	136.0
60	26.26	36.41	4.57	10.1	135.2
70	26.25	36.41	4.58	8.7	134.5
80	26.25	36.41	4.56	6.0	133.8
90	26.06	36.54	4.41	5.2	136.4
100	25.27	36.80	3.87	6.6	136.4
110	24.87	36.85	3.81	6.9	130.4
120	24.15	36.90	3.71	1.0	126.8
130	23.87	36.91	3.69	-6.9	122.8
140	22.86	36.92	3.62	-10.8	118.8
150	22.31	36.92	3.55	-6.9	117.5
160	21.99	36.90	3.54	-4.8	116.7
170	21.76	36.90	3.51	-7.5	116.4
180	21.13	36.86	3.47	-8.2	115.4
190	20.83	36.83	3.46	-7.7	117.2
200	20.41	36.79	3.45	-9.9	118.4
210	19.73	36.71	3.46	-10.6	118.7
220	19.38	36.67	3.47	-11.5	117.0
230	19.26	36.66	3.47	-8.7	116.3
240	18.95	36.62	3.48	-6.3	116.3
250	18.70	36.58	3.48	-3.6	117.2
260	18.37	36.53	3.47	-6.3	117.0
270	17.99	36.48	3.51	-9.3	117.1
280	17.64	36.42	3.51	-9.8	116.4
290	17.43	36.39	3.51	-10.0	114.6
300	16.93	36.30	3.47	-8.4	112.8
350	15.37	36.04	3.28	-0.7	102.9
400	13.48	35.73	3.09	-3.1	84.4
450	12.25	35.52	2.90	-0.8	79.3
500	10.66	35.28	2.79	-2.1	67.3
550	9.95	35.18	2.78	-0.0	62.4
600	9.30	35.10	2.79	-5.2	56.4
650	8.42	35.00	2.83	-8.2	51.6
700	7.38	34.93	3.01	-6.8	47.6
750	NaN	NaN	NaN	-6.6	44.6

Table 23: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.29	36.42	4.54	NaN	NaN
10	26.28	36.42	4.54	15.3	91.3
20	26.28	36.41	4.54	14.8	91.9
30	26.28	36.41	4.54	15.5	91.2
40	26.27	36.41	4.54	16.5	91.5
50	26.26	36.41	4.55	19.0	91.5
60	26.25	36.41	4.55	20.9	92.1
70	26.06	36.51	4.40	14.7	93.3
80	25.73	36.62	4.32	4.2	96.1
90	25.55	36.66	4.35	-4.8	98.7
100	25.19	36.70	4.26	-1.8	101.6
110	25.10	36.69	4.33	2.6	102.4
120	25.09	36.69	4.34	1.7	99.6
130	24.59	36.77	4.12	-1.5	93.8
140	24.38	36.79	4.02	-8.2	88.4
150	23.67	36.86	3.86	-12.7	89.0
160	22.26	36.78	4.12	-7.8	87.0
170	21.21	36.72	4.24	-6.2	83.0
180	20.51	36.69	4.24	-11.9	86.0
190	19.81	36.65	4.25	-20.8	87.4
200	19.16	36.61	4.23	-21.0	82.7
210	18.96	36.60	4.22	-16.4	83.1
220	18.84	36.59	4.21	-12.2	86.2
230	18.79	36.59	4.20	-12.0	87.0
240	18.73	36.58	4.21	-12.1	88.1
250	18.69	36.58	4.21	-11.9	89.0
260	18.66	36.58	4.21	-12.9	90.0
270	18.54	36.58	4.16	-15.9	88.8
280	18.43	36.57	4.08	-14.9	87.5
290	18.33	36.56	4.09	-10.6	86.5
300	18.29	36.55	4.09	-3.5	85.4
350	17.97	36.51	4.03	-0.7	85.7
400	15.69	36.13	3.65	-8.5	59.7
450	13.73	35.77	3.18	-4.2	45.0
500	12.30	35.53	2.91	3.5	34.7
550	11.17	35.36	2.83	9.0	28.0
600	9.93	35.18	2.79	8.3	18.7
650	NaN	NaN	NaN	10.8	17.4

Table 24: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.31	36.40	4.56	NaN	NaN
10	26.32	36.40	4.57	27.2	43.9
20	26.33	36.40	4.58	26.3	42.7
30	26.31	36.40	4.57	25.8	40.7
40	26.23	36.44	4.55	20.5	43.7
50	25.70	36.53	4.61	12.2	48.4
60	25.59	36.61	4.50	4.9	50.5
70	25.47	36.63	4.46	1.3	52.6
80	25.12	36.64	4.63	-2.0	56.8
90	24.88	36.72	4.65	-8.4	63.3
100	24.82	36.75	4.60	-10.8	65.9
110	24.67	36.76	4.57	-14.1	67.8
120	24.58	36.76	4.61	-13.7	70.2
130	24.57	36.76	4.60	-13.1	71.6
140	24.49	36.80	4.65	-11.4	70.4
150	24.42	36.81	4.65	-9.7	68.2
160	23.76	36.80	4.50	-7.9	63.7
170	22.23	36.75	4.24	-6.5	61.0
180	21.78	36.74	4.28	-8.3	65.3
190	20.81	36.69	4.32	-15.0	64.1
200	20.09	36.65	4.31	-10.3	61.0
210	19.57	36.63	4.26	-7.8	56.9
220	19.40	36.63	4.25	-9.8	52.4
230	19.20	36.62	4.22	-8.2	47.7
240	19.12	36.65	4.10	-9.6	44.2
250	19.01	36.64	4.11	-9.0	42.9
260	18.82	36.62	4.11	-9.3	44.2
270	18.79	36.61	4.12	-10.3	45.2
280	18.68	36.60	4.09	-10.2	42.1
290	18.35	36.56	4.09	-8.7	41.6
300	18.32	36.56	4.07	-10.2	43.4
350	18.02	36.52	4.18	-11.9	46.3
400	17.06	36.35	3.79	-1.9	48.3
450	16.87	36.32	3.77	0.7	45.3
500	15.13	36.02	3.51	-0.4	25.7
550	13.69	35.77	3.19	0.7	6.8
600	11.85	35.48	2.96	6.3	-3.8

Table 25: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1702. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.35	36.39	4.57	NaN	NaN
10	26.35	36.41	4.56	34.2	10.4
20	25.60	36.53	4.62	24.6	16.9
30	24.96	36.67	4.68	3.7	36.7
40	24.90	36.69	4.68	0.5	38.8
50	24.86	36.70	4.67	-4.4	41.1
60	24.77	36.72	4.66	-5.5	42.6
70	24.68	36.74	4.62	-6.7	44.9
80	24.65	36.75	4.60	-8.0	47.2
90	24.64	36.76	4.60	-7.7	47.9
100	24.61	36.78	4.61	-8.8	49.0
110	24.53	36.80	4.58	-9.7	49.6
120	24.41	36.79	4.55	-10.2	48.0
130	24.26	36.80	4.49	-12.9	47.3
140	24.15	36.79	4.50	-18.1	46.0
150	24.10	36.79	4.49	-21.0	45.1
160	24.01	36.79	4.49	-18.5	46.0
170	23.53	36.79	4.44	-13.3	45.9
180	22.25	36.75	4.35	-11.3	43.8
190	21.20	36.70	4.42	-12.7	44.2
200	21.00	36.70	4.35	-15.2	45.3
210	20.90	36.69	4.34	-14.0	44.3
220	20.71	36.68	4.35	-13.0	37.5
230	19.95	36.65	4.28	-10.7	31.6
240	19.66	36.67	3.97	-7.8	28.0
250	19.61	36.68	3.81	-6.9	24.2
260	19.42	36.66	3.84	-7.7	21.8
270	19.17	36.61	4.14	-8.6	20.6
280	19.05	36.60	4.22	-5.1	19.7
290	18.94	36.60	4.22	-2.3	18.3
300	18.79	36.59	4.22	-4.1	18.6
350	18.09	36.51	3.90	-3.5	20.7
400	17.62	36.46	4.09	-0.5	12.0
450	17.02	36.34	3.77	6.7	12.6

Table 26: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.49	36.32	4.45	NaN	NaN
10	28.50	36.32	4.45	-11.9	207.8
20	28.36	36.32	4.47	-8.8	212.0
30	27.68	36.32	4.53	-2.0	206.3
40	25.26	35.91	4.81	0.1	195.5
50	25.06	36.62	4.45	2.7	180.6
60	22.44	36.25	4.59	2.3	158.1
70	21.26	36.31	4.23	0.2	130.3
80	19.38	36.32	3.69	0.4	96.7
90	17.11	36.16	3.31	-0.3	62.8
100	15.48	36.01	3.11	-3.7	31.8
110	13.98	35.81	2.98	-4.7	8.2
120	13.54	35.75	2.96	-4.6	2.2
130	12.77	35.64	2.92	-2.9	-0.7
140	NaN	NaN	NaN	0.9	-5.0
150	NaN	NaN	NaN	0.4	1.7

Table 27: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.57	36.37	4.47	NaN	NaN
10	28.56	36.37	4.46	-3.9	208.2
20	28.46	36.37	4.49	-4.1	208.2
30	28.11	36.38	4.51	-4.0	205.1
40	27.33	36.42	4.71	-0.8	202.6
50	26.80	36.51	4.53	-0.1	194.1
60	26.06	36.49	4.44	2.0	184.4
70	24.79	36.64	4.15	-4.1	176.9
80	23.65	36.46	4.77	-7.1	168.9
90	23.22	36.62	4.25	-4.0	154.8
100	21.50	36.40	4.12	-5.7	139.3
110	20.15	36.37	3.46	-9.2	121.4
120	18.75	36.27	3.22	-8.4	96.1
130	17.31	36.09	3.40	-10.1	79.3
140	15.50	35.96	3.09	-11.1	74.2
150	15.22	35.97	3.03	-11.3	72.3
160	14.86	35.95	3.03	-9.2	67.6
170	14.40	35.88	3.02	-10.3	63.6
180	13.56	35.75	2.98	-6.2	54.0
190	12.57	35.60	2.94	-2.0	42.1
200	11.81	35.49	2.91	-1.8	30.6
210	10.95	35.38	2.88	2.0	20.5
220	10.41	35.30	2.86	5.0	15.6
230	10.13	35.24	2.81	5.4	13.8
240	9.48	35.14	2.79	7.9	13.0
250	8.97	35.08	2.77	6.1	10.5
260	NaN	NaN	NaN	6.0	10.5

Table 28: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.68	36.21	4.46	NaN	NaN
10	28.65	36.22	4.46	10.5	204.1
20	28.56	36.23	4.47	7.1	200.8
30	28.14	36.31	4.54	2.8	199.0
40	27.54	36.40	4.60	-0.5	196.0
50	27.08	36.46	4.55	-2.7	192.9
60	26.52	36.54	4.42	-3.7	188.6
70	26.26	36.60	4.35	-6.6	187.0
80	26.08	36.63	4.30	-6.0	183.7
90	25.24	36.53	4.54	-5.7	174.9
100	24.57	36.72	4.21	-5.4	168.2
110	23.29	36.62	4.33	-6.1	161.6
120	22.61	36.80	3.65	-8.7	159.3
130	22.36	36.78	3.66	-6.5	154.9
140	20.71	36.57	3.47	-2.2	141.8
150	18.93	36.39	3.06	-3.3	124.7
160	18.09	36.38	2.94	-4.2	114.1
170	17.45	36.30	2.97	-3.3	107.5
180	16.58	36.20	3.01	0.9	98.3
190	16.14	36.15	3.08	2.2	92.6
200	15.02	35.98	3.07	1.1	88.0
210	13.94	35.80	3.02	0.2	82.5
220	13.23	35.69	2.94	-0.5	77.2
230	12.57	35.58	2.93	2.0	72.9
240	12.41	35.56	2.91	3.3	67.8
250	12.09	35.51	2.89	3.2	65.3
260	11.80	35.46	2.86	2.7	60.8
270	11.66	35.44	2.82	2.7	55.7
280	11.42	35.42	2.83	1.3	51.4
290	10.98	35.35	2.84	1.2	46.5
300	10.72	35.32	2.84	2.7	41.6
350	9.08	35.12	2.85	2.6	23.8

Table 29: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.72	36.24	4.44	NaN	NaN
10	28.68	36.24	4.46	7.5	181.4
20	28.60	36.26	4.48	5.8	178.2
30	28.11	36.28	4.56	6.3	176.9
40	27.91	36.31	4.57	1.7	176.1
50	27.12	36.41	4.68	1.3	177.6
60	26.71	36.47	4.57	1.6	179.3
70	26.53	36.50	4.49	0.7	180.6
80	26.38	36.53	4.40	-2.6	180.4
90	26.01	36.70	4.28	-4.3	176.0
100	25.40	36.80	4.21	-7.8	166.0
110	25.03	36.85	4.02	-13.0	162.3
120	24.59	36.90	3.94	-12.7	159.5
130	23.86	36.92	3.77	-12.0	158.1
140	23.16	36.92	3.59	-6.3	157.5
150	22.37	36.92	3.53	-4.6	150.1
160	21.63	36.90	3.60	-7.4	144.2
170	20.79	36.82	3.51	-11.2	144.0
180	20.40	36.77	3.42	-7.2	146.2
190	19.54	36.66	3.33	1.6	139.6
200	18.62	36.48	3.03	3.2	130.9
210	18.23	36.49	3.27	2.4	128.5
220	17.66	36.38	3.08	5.2	123.1
230	16.94	36.28	2.98	5.7	116.6
240	16.16	36.17	3.13	4.5	113.0
250	15.28	36.02	3.12	3.4	109.6
260	14.38	35.88	3.05	2.5	102.8
270	13.58	35.75	2.96	4.3	95.4
280	12.95	35.65	2.99	2.6	91.5
290	12.61	35.60	2.94	0.8	88.4
300	11.99	35.50	2.89	1.1	84.1
350	10.97	35.33	2.79	-2.5	76.9
400	10.14	35.21	2.68	3.3	72.7
450	8.73	35.03	2.76	9.4	62.2
500	7.36	34.95	3.02	4.4	31.3

Table 30: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.78	36.24	4.44	NaN	NaN
10	28.72	36.23	4.47	-3.4	168.1
20	28.33	36.28	4.54	-1.4	166.4
30	27.67	36.36	4.65	-2.3	166.7
40	27.36	36.41	4.59	-4.8	166.0
50	26.90	36.42	4.61	-7.1	166.5
60	26.70	36.45	4.55	-6.8	167.9
70	26.50	36.55	4.43	-5.2	169.9
80	26.24	36.55	4.32	-3.2	171.6
90	26.02	36.61	4.18	-5.0	172.6
100	25.78	36.66	4.09	-4.2	173.4
110	25.39	36.73	4.02	1.1	167.5
120	24.96	36.85	3.83	-1.5	157.2
130	24.21	36.90	3.73	-6.3	150.1
140	23.16	36.95	3.67	-6.4	147.2
150	22.79	36.96	3.65	-3.0	146.1
160	22.10	36.94	3.58	0.6	144.9
170	21.82	36.92	3.57	0.2	143.1
180	21.36	36.88	3.49	-2.6	139.8
190	20.59	36.79	3.42	-2.0	139.8
200	19.68	36.71	3.45	-0.6	134.2
210	19.00	36.61	3.38	-1.3	131.3
220	18.63	36.56	3.36	0.2	129.9
230	18.20	36.48	3.19	1.5	126.0
240	17.67	36.40	3.24	0.1	120.1
250	17.27	36.34	3.20	-2.2	114.4
260	16.89	36.29	3.21	-4.7	112.1
270	16.48	36.22	3.15	-6.2	110.9
280	16.02	36.14	3.07	-9.3	106.6
290	14.88	35.95	3.03	-12.5	102.6
300	14.47	35.89	3.02	-10.3	100.3
350	12.78	35.62	2.96	2.4	85.7
400	11.33	35.39	2.75	4.0	76.5
450	9.46	35.12	2.73	-2.3	58.1
500	8.83	35.05	2.75	1.8	57.3
550	8.19	34.98	2.79	10.6	53.5
600	7.07	34.93	3.04	14.1	31.4

Table 31: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.85	36.35	4.45	NaN	NaN
10	28.59	36.34	4.48	18.4	145.2
20	28.38	36.35	4.53	16.5	142.0
30	28.15	36.36	4.55	14.2	139.3
40	27.77	36.36	4.60	13.6	134.9
50	27.41	36.39	4.63	12.7	131.4
60	27.04	36.41	4.61	7.0	129.0
70	26.55	36.48	4.50	1.0	127.2
80	26.43	36.50	4.44	-3.0	124.5
90	26.21	36.53	4.33	-6.2	122.9
100	25.98	36.59	4.23	-7.7	120.2
110	25.75	36.64	4.14	-4.2	117.5
120	25.68	36.66	4.09	0.6	115.9
130	25.44	36.71	4.03	-0.8	114.5
140	24.62	36.83	3.83	-5.0	112.0
150	23.56	36.93	3.69	-10.3	114.3
160	23.53	36.94	3.67	-13.0	118.5
170	22.94	36.95	3.64	-7.7	122.2
180	22.12	36.93	3.58	0.1	121.2
190	21.08	36.86	3.61	1.6	118.0
200	20.51	36.81	3.60	-6.1	114.8
210	20.37	36.80	3.57	-9.7	114.4
220	20.14	36.77	3.55	-10.5	115.5
230	19.90	36.74	3.55	-12.9	117.2
240	19.49	36.69	3.59	-11.8	117.6
250	19.00	36.63	3.61	-9.3	114.3
260	18.66	36.58	3.60	-5.4	111.9
270	18.08	36.51	3.69	-1.6	107.6
280	17.88	36.48	3.69	-1.5	105.2
290	17.41	36.39	3.48	-1.3	105.0
300	17.13	36.35	3.47	-0.3	105.3
350	15.02	35.98	3.15	6.6	95.4
400	13.66	35.76	3.07	-7.8	83.4
450	12.23	35.55	3.00	2.3	75.7
500	10.43	35.26	2.75	2.3	69.1
550	9.00	35.07	2.76	8.6	67.7
600	8.44	35.01	2.80	5.2	55.5
650	7.77	34.94	2.84	5.8	49.5
700	7.49	34.93	2.90	2.7	41.5

Table 32: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.66	36.33	4.49	NaN	NaN
10	28.43	36.32	4.50	17.2	90.2
20	28.30	36.34	4.51	12.5	89.4
30	27.90	36.34	4.56	4.2	88.1
40	27.56	36.37	4.61	-3.2	88.8
50	27.30	36.39	4.62	-13.3	90.1
60	27.22	36.39	4.61	-18.2	90.7
70	27.09	36.40	4.62	-15.6	88.1
80	26.79	36.44	4.56	-7.8	82.1
90	26.61	36.47	4.51	-2.3	77.4
100	26.34	36.52	4.41	-3.6	73.6
110	26.24	36.56	4.33	-8.8	73.1
120	25.60	36.69	4.07	-8.4	76.3
130	25.12	36.76	3.92	-1.8	82.5
140	24.47	36.84	3.78	-3.2	88.7
150	23.97	36.88	3.71	-6.3	92.5
160	23.25	36.91	3.66	-5.6	93.4
170	22.61	36.93	3.63	-6.8	96.6
180	21.74	36.81	4.20	-6.2	98.8
190	21.28	36.81	3.97	-8.5	99.1
200	20.82	36.75	4.21	-11.0	100.4
210	20.46	36.74	4.16	-12.7	101.7
220	20.12	36.71	4.19	-14.6	101.7
230	19.89	36.71	4.04	-15.8	99.3
240	19.82	36.71	3.98	-13.5	93.3
250	19.54	36.70	3.67	-11.8	91.0
260	19.21	36.66	3.73	-9.8	94.5
270	18.75	36.60	4.00	-6.9	100.3
280	18.24	36.55	4.02	-6.5	106.1
290	17.94	36.52	4.11	-7.6	107.2
300	17.92	36.51	4.05	-6.7	106.8
350	16.76	36.32	3.88	-15.9	90.1
400	15.60	36.13	3.71	-8.9	79.1
450	13.62	35.79	3.44	-6.0	64.5
500	11.53	35.43	2.88	-6.1	58.9
550	9.95	35.19	2.72	-2.3	47.6
600	9.36	35.12	2.76	9.8	32.0

Table 33: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.78	36.35	4.48	NaN	NaN
10	28.59	36.34	4.50	-4.5	46.4
20	28.47	36.34	4.49	-0.6	44.4
30	28.07	36.34	4.56	-4.3	41.1
40	27.89	36.34	4.57	-6.8	36.6
50	27.84	36.35	4.57	-8.2	35.4
60	27.55	36.37	4.60	-7.0	35.4
70	27.33	36.39	4.61	-5.0	36.7
80	27.12	36.40	4.62	1.8	38.9
90	26.64	36.49	4.49	9.5	38.7
100	26.40	36.54	4.36	13.3	36.8
110	26.00	36.61	4.19	12.7	40.3
120	25.10	36.78	4.01	6.5	48.2
130	24.34	36.88	4.58	-0.2	54.5
140	23.21	36.85	4.63	-8.3	60.5
150	22.53	36.81	4.69	-13.6	70.3
160	22.01	36.79	4.61	-14.2	78.4
170	21.11	36.73	4.55	-12.2	81.9
180	20.97	36.74	4.53	-10.6	83.1
190	20.90	36.74	4.50	-8.8	82.4
200	20.80	36.72	4.54	-9.1	81.7
210	20.39	36.70	4.43	-11.1	82.6
220	20.10	36.66	4.46	-13.1	82.2
230	19.75	36.65	4.38	-13.6	82.3
240	19.46	36.64	4.32	-15.1	83.0
250	19.35	36.63	4.29	-13.6	81.7
260	19.20	36.62	4.27	-12.5	81.8
270	19.08	36.61	4.28	-11.9	82.4
280	19.06	36.61	4.27	-9.2	81.2
290	18.97	36.61	4.25	-9.8	80.7
300	18.81	36.59	4.24	-13.8	81.8
350	17.56	36.45	4.10	-13.1	71.0
400	16.53	36.29	4.00	-10.6	62.7
450	15.58	36.13	3.82	-10.8	60.3
500	13.97	35.86	3.62	-10.7	63.1
550	12.57	35.65	3.39	-14.9	54.7
600	11.48	35.50	3.29	-4.0	35.8

Table 34: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1706. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.70	36.37	4.49	NaN	NaN
10	28.44	36.36	4.50	4.5	-0.5
20	28.41	36.36	4.50	5.8	2.0
30	28.30	36.37	4.51	5.6	3.4
40	27.99	36.36	4.55	6.2	1.6
50	27.64	36.37	4.58	1.3	2.8
60	27.03	36.42	4.59	1.4	4.7
70	26.58	36.47	4.53	11.4	5.3
80	26.17	36.56	4.29	9.8	4.6
90	26.04	36.60	4.20	0.5	3.6
100	25.97	36.63	4.16	-1.5	7.9
110	25.22	36.78	4.13	5.5	15.7
120	24.83	36.80	4.09	4.9	21.3
130	23.83	36.85	4.14	2.8	28.4
140	23.28	36.85	4.22	-4.0	34.6
150	22.63	36.84	4.31	-8.5	38.3
160	22.37	36.82	4.40	-7.2	41.3
170	22.24	36.81	4.54	-4.9	44.4
180	21.85	36.79	4.50	-6.0	46.6
190	20.89	36.73	4.52	-8.5	45.8
200	20.73	36.71	4.54	-10.1	45.4
210	20.46	36.70	4.51	-8.8	46.5
220	20.25	36.68	4.45	-10.2	47.7
230	19.81	36.64	4.41	-14.0	47.5
240	19.70	36.64	4.37	-16.2	47.3
250	19.57	36.63	4.36	-16.2	47.9
260	19.45	36.63	4.31	-10.6	49.2
270	19.22	36.61	4.30	-9.3	49.2
280	19.04	36.61	4.26	-10.4	49.0
290	18.86	36.59	4.25	-11.0	48.4
300	18.75	36.59	4.23	-12.0	48.6
350	18.02	36.51	4.16	-17.6	53.2
400	16.93	36.35	4.03	-11.9	58.0
450	16.34	36.25	3.93	-15.7	41.7

Table 35: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.01	36.18	4.44	NaN	NaN
10	29.93	36.27	4.44	1.8	197.5
20	28.56	36.29	4.61	1.4	185.2
30	27.44	36.22	4.71	4.2	177.3
40	26.58	36.45	4.66	6.7	175.5
50	24.66	36.47	4.78	11.3	158.4
60	22.53	36.40	4.44	11.0	128.7
70	20.78	36.42	3.89	8.9	106.2
80	19.72	36.41	3.49	6.7	81.0
90	17.12	36.17	3.13	8.6	51.1
100	15.13	35.95	2.95	10.7	23.8
110	14.26	35.85	2.90	6.6	1.7
120	13.05	35.69	2.88	0.1	-8.9
130	12.51	35.61	2.86	-4.8	-16.0
140	12.39	35.60	2.84	-4.5	-17.5
150	NaN	NaN	NaN	-4.5	-17.7

Table 36: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.83	36.34	4.39	NaN	NaN
10	29.81	36.33	4.42	13.1	198.1
20	29.62	36.31	4.46	13.2	196.1
30	28.92	36.41	4.59	7.4	195.1
40	27.52	36.18	4.70	5.1	193.0
50	26.80	36.32	4.72	8.1	185.8
60	25.30	36.49	4.67	12.6	174.8
70	24.17	36.63	4.54	15.9	163.4
80	22.79	36.36	4.49	15.1	152.9
90	22.17	36.42	4.14	14.4	143.3
100	21.06	36.53	3.59	17.2	133.5
110	20.21	36.49	3.32	15.3	108.8
120	18.28	36.21	3.43	11.0	86.4
130	16.35	36.10	3.16	7.3	66.7
140	15.69	36.10	3.01	5.6	55.3
150	14.96	35.97	2.94	2.2	48.5
160	14.42	35.88	2.90	-0.7	44.4
170	13.38	35.73	2.91	-2.3	42.1
180	12.89	35.67	2.89	-3.7	37.9
190	12.05	35.54	2.87	-3.4	32.5
200	11.53	35.47	2.86	-1.2	24.3
210	10.69	35.36	2.86	-1.2	13.4
220	10.46	35.33	2.86	-0.2	8.3
230	10.22	35.30	2.86	1.2	7.0
240	9.85	35.24	2.84	1.3	6.3
250	9.58	35.20	2.81	0.8	6.3
260	NaN	NaN	NaN	1.2	6.8

Table 37: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.99	36.33	4.40	NaN	NaN
10	29.90	36.32	4.43	5.2	203.4
20	29.49	36.28	4.49	3.4	205.3
30	28.92	36.31	4.53	4.4	208.2
40	28.22	36.38	4.59	5.1	209.3
50	27.65	36.46	4.54	4.9	208.5
60	27.43	36.50	4.54	4.8	202.8
70	26.61	36.51	4.58	5.0	195.1
80	25.43	36.52	4.69	5.9	187.6
90	24.72	36.77	4.12	14.0	178.4
100	23.42	36.59	4.39	13.7	166.4
110	22.67	36.56	4.23	6.4	162.4
120	22.22	36.62	4.03	6.7	165.3
130	21.46	36.71	3.49	17.2	156.7
140	20.75	36.62	3.25	20.4	141.3
150	19.94	36.55	3.07	13.9	131.1
160	19.35	36.55	3.09	8.7	127.0
170	18.11	36.41	3.05	14.2	115.2
180	16.96	36.21	3.04	13.4	103.8
190	15.64	36.01	3.00	10.6	88.8
200	14.55	35.90	2.95	8.8	82.8
210	14.19	35.86	2.92	6.9	77.0
220	13.57	35.77	2.93	5.2	71.7
230	13.21	35.72	2.91	5.8	65.7
240	12.37	35.58	2.91	5.4	59.6
250	11.87	35.50	2.88	2.7	52.3
260	11.08	35.40	2.85	-2.5	47.3
270	10.46	35.31	2.83	-5.4	45.4
280	10.20	35.29	2.85	-6.7	43.1
290	9.81	35.23	2.85	-4.8	35.9
300	9.41	35.18	2.85	-4.4	31.5
350	7.64	34.97	2.89	0.5	8.2

Table 38: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.89	36.45	4.42	NaN	NaN
10	29.82	36.65	4.44	-0.5	183.4
20	29.70	36.76	4.46	-1.5	190.3
30	28.95	36.50	4.55	1.1	196.2
40	28.98	36.68	4.54	3.2	197.9
50	28.26	36.75	4.58	-0.2	196.3
60	27.31	36.62	4.58	-4.9	196.4
70	26.86	36.61	4.51	-6.0	196.4
80	26.39	36.71	4.50	-3.2	193.1
90	25.65	36.73	4.31	-1.2	186.1
100	25.37	36.76	4.37	-4.4	180.7
110	24.48	36.85	4.36	-4.9	177.6
120	24.00	36.90	3.80	2.8	174.3
130	23.42	36.82	3.94	1.4	167.2
140	22.84	36.82	3.83	-2.1	165.9
150	22.19	36.90	3.59	-1.2	161.6
160	21.91	36.92	3.58	6.0	158.2
170	21.09	36.83	3.50	12.7	149.9
180	20.17	36.65	3.19	11.8	137.9
190	19.31	36.56	2.99	10.1	131.4
200	18.33	36.45	2.89	14.0	126.3
210	17.51	36.35	2.96	16.4	116.0
220	16.22	36.15	3.04	13.6	105.4
230	15.79	36.11	3.04	5.7	98.0
240	15.30	36.03	3.01	-0.6	94.4
250	14.49	35.91	3.02	-4.2	92.7
260	14.19	35.87	3.00	-4.7	91.7
270	13.45	35.75	3.00	-2.4	90.3
280	13.00	35.67	2.96	0.4	86.1
290	12.54	35.59	2.86	2.6	80.7
300	12.23	35.54	2.91	0.4	76.3
350	10.26	35.25	2.77	-0.7	58.4
400	9.24	35.11	2.75	-0.2	51.3
450	8.39	35.02	2.77	2.1	38.9
500	7.37	34.95	2.94	-0.3	15.0

Table 39: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.33	36.32	4.48	NaN	NaN
10	29.32	36.33	4.49	-0.1	173.5
20	29.25	36.49	4.51	-1.1	173.8
30	28.58	36.45	4.58	0.7	174.0
40	28.06	36.38	4.63	1.7	171.6
50	27.49	36.42	4.67	-0.1	170.0
60	26.93	36.48	4.59	-6.6	170.5
70	26.68	36.52	4.49	-9.7	172.4
80	26.38	36.58	4.38	-9.5	172.9
90	25.98	36.67	4.28	-11.5	171.2
100	25.66	36.73	4.11	-12.7	170.7
110	25.08	36.85	3.97	-7.4	166.5
120	24.70	36.83	4.14	-1.3	160.3
130	24.08	36.85	4.36	1.2	157.9
140	23.55	36.88	4.46	0.6	155.0
150	22.77	36.89	4.01	3.0	148.9
160	22.34	36.89	3.99	5.1	146.2
170	21.81	36.86	4.03	8.3	145.6
180	21.16	36.85	3.73	12.2	144.1
190	20.59	36.79	3.52	13.6	137.6
200	19.92	36.67	3.35	10.1	132.9
210	19.01	36.55	3.11	9.2	130.3
220	18.24	36.46	3.00	9.5	126.6
230	17.93	36.44	3.13	9.7	121.9
240	17.50	36.38	3.18	9.7	116.7
250	16.99	36.29	3.02	5.7	110.8
260	16.49	36.22	3.07	-1.3	105.1
270	15.56	36.08	3.07	-6.0	101.3
280	14.78	35.96	3.11	-7.6	99.3
290	14.34	35.89	3.22	-3.3	97.3
300	14.08	35.85	3.17	1.5	93.4
350	12.33	35.56	2.90	-1.5	73.3
400	10.46	35.27	2.78	-2.3	64.2
450	9.37	35.13	2.74	1.5	51.0
500	8.54	35.03	2.77	-0.9	39.8
550	7.91	34.97	2.84	2.3	33.4
600	7.33	34.94	2.95	-1.5	11.0

Table 40: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.36	36.29	4.46	NaN	NaN
10	29.34	36.39	4.50	3.1	125.0
20	28.88	36.44	4.53	2.8	123.5
30	27.70	36.38	4.70	-2.6	129.6
40	27.40	36.43	4.65	-10.0	129.8
50	27.03	36.47	4.59	-13.9	130.8
60	26.86	36.49	4.57	-13.8	131.8
70	26.68	36.51	4.51	-14.3	131.5
80	26.34	36.60	4.34	-16.2	127.6
90	26.27	36.61	4.32	-13.7	121.6
100	25.62	36.74	4.09	-9.2	116.8
110	25.62	36.74	4.10	-8.5	114.9
120	25.49	36.77	4.07	-11.6	117.6
130	24.78	36.85	3.90	-11.1	122.2
140	24.12	36.91	3.76	-4.2	124.1
150	23.62	36.95	3.73	0.6	121.9
160	23.50	36.95	3.71	4.2	122.2
170	23.22	36.95	3.70	4.7	120.5
180	22.17	36.86	4.04	1.5	117.5
190	21.35	36.84	3.78	-2.9	115.9
200	20.61	36.80	3.81	-3.7	113.9
210	20.35	36.80	3.63	-1.7	112.0
220	20.05	36.77	3.58	1.4	113.0
230	19.13	36.62	3.43	5.0	110.5
240	18.54	36.54	3.29	3.1	107.5
250	18.36	36.55	3.53	3.8	107.9
260	17.71	36.44	3.47	9.6	106.7
270	17.24	36.36	3.35	12.2	99.5
280	16.77	36.30	3.40	10.6	91.9
290	16.41	36.24	3.39	8.5	87.2
300	16.20	36.21	3.47	5.7	85.2
350	14.64	35.93	3.20	2.7	77.9
400	12.94	35.65	2.89	-1.9	64.6
450	11.31	35.41	2.92	-4.1	53.2
500	10.18	35.23	2.76	1.8	43.9
550	9.34	35.11	2.76	2.0	36.0
600	8.50	35.02	2.79	0.1	24.6
650	7.80	34.97	2.90	0.5	22.8
700	6.78	34.92	3.12	-2.0	12.9
750	6.46	34.91	3.24	-4.6	7.7

Table 41: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.66	36.50	4.46	NaN	NaN
10	29.44	36.49	4.48	6.6	64.4
20	29.05	36.47	4.53	4.4	64.2
30	27.97	36.39	4.63	-5.7	65.3
40	27.62	36.42	4.64	-8.8	66.4
50	27.35	36.44	4.63	-5.7	68.0
60	27.08	36.46	4.59	-3.5	70.3
70	26.97	36.47	4.57	-2.3	70.9
80	26.76	36.50	4.51	-3.8	71.2
90	26.42	36.56	4.36	-4.0	70.3
100	26.27	36.60	4.30	-4.8	66.0
110	25.73	36.72	4.19	-6.3	60.8
120	25.31	36.78	4.02	-7.0	62.7
130	24.95	36.82	3.96	-2.7	64.4
140	24.24	36.83	4.12	0.4	68.4
150	23.60	36.86	4.22	3.8	75.6
160	22.82	36.90	3.82	6.0	77.9
170	22.40	36.90	3.79	3.9	76.7
180	22.19	36.91	3.65	7.8	75.7
190	21.82	36.92	3.60	7.7	73.8
200	21.65	36.91	3.60	4.2	72.2
210	21.22	36.88	3.60	4.9	71.3
220	20.79	36.85	3.62	4.9	71.5
230	20.17	36.79	3.58	4.8	76.1
240	19.60	36.71	3.60	4.5	80.4
250	19.12	36.66	3.60	3.5	82.6
260	18.76	36.62	3.60	6.9	80.7
270	18.51	36.58	3.67	6.5	78.5
280	18.30	36.55	3.67	3.3	75.9
290	18.12	36.53	3.69	0.0	74.8
300	17.92	36.50	3.70	-0.9	71.4
350	16.82	36.32	3.61	-7.1	67.7
400	15.25	36.03	3.28	-4.1	62.5
450	13.87	35.85	3.39	5.9	42.1
500	12.31	35.55	2.95	-1.0	35.4
550	11.59	35.43	2.89	-5.1	25.3
600	10.09	35.22	2.80	5.5	19.7
650	8.85	35.13	3.00	-1.5	17.7

Table 42: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.31	36.31	4.48	NaN	NaN
10	29.03	36.31	4.50	1.5	7.0
20	28.81	36.33	4.57	0.2	7.3
30	27.96	36.39	4.63	-0.6	10.2
40	27.48	36.43	4.64	4.0	12.1
50	27.24	36.44	4.64	10.1	12.6
60	27.10	36.46	4.58	10.8	13.8
70	26.89	36.49	4.55	4.3	17.0
80	26.74	36.53	4.50	-0.9	17.5
90	26.41	36.59	4.37	-2.0	18.5
100	26.25	36.63	4.29	1.6	21.4
110	25.79	36.69	4.21	3.4	25.7
120	25.20	36.76	4.26	1.4	33.6
130	24.85	36.80	4.21	6.2	38.7
140	24.21	36.84	4.16	10.8	41.3
150	23.33	36.90	3.95	7.6	44.6
160	23.13	36.94	3.69	5.1	46.9
170	22.74	36.94	3.66	5.7	48.9
180	21.84	36.89	3.77	6.4	51.5
190	21.29	36.86	3.75	6.4	52.4
200	20.99	36.83	3.86	5.3	53.5
210	20.59	36.79	3.85	6.1	54.4
220	20.40	36.78	3.76	6.4	57.0
230	20.15	36.77	3.66	8.8	58.9
240	19.84	36.73	3.85	12.4	61.8
250	19.75	36.73	3.81	13.6	61.7
260	19.48	36.71	3.65	9.0	59.1
270	19.22	36.68	3.68	7.1	58.3
280	18.97	36.64	3.68	8.9	58.1
290	18.72	36.61	3.94	9.1	58.2
300	18.47	36.58	3.75	6.7	56.0
350	17.42	36.44	4.10	-6.5	48.2
400	16.72	36.31	3.77	-11.2	44.6
450	16.17	36.22	3.67	-3.3	41.6
500	14.67	35.95	3.38	0.6	34.8
550	12.59	35.62	3.15	-4.6	33.5
600	11.70	35.53	3.28	-9.3	28.0

Table 43: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1707. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.62	36.39	4.45	NaN	NaN
10	29.43	36.40	4.46	11.6	-33.2
20	29.26	36.52	4.50	10.7	-31.6
30	29.05	36.63	4.52	14.7	-25.8
40	27.54	36.47	4.67	17.2	-24.1
50	26.96	36.49	4.58	22.4	-26.8
60	26.63	36.51	4.50	23.3	-24.5
70	26.61	36.52	4.49	21.7	-23.7
80	26.59	36.53	4.46	19.1	-23.6
90	26.51	36.55	4.41	14.5	-22.0
100	25.86	36.70	4.27	11.2	-12.5
110	25.07	36.82	3.93	7.9	-2.4
120	24.60	36.87	3.82	10.0	6.0
130	24.14	36.93	3.78	11.9	11.5
140	23.07	36.91	3.86	7.3	15.6
150	22.57	36.90	3.83	1.4	16.9
160	22.16	36.89	3.81	-0.3	19.6
170	21.56	36.86	3.99	1.4	19.7
180	21.53	36.85	4.06	4.0	19.4
190	21.26	36.85	4.15	3.3	18.8
200	21.08	36.82	4.19	0.8	18.6
210	20.80	36.80	4.12	6.4	22.0
220	20.51	36.77	4.07	9.2	24.3
230	20.27	36.75	4.07	9.0	26.3
240	20.21	36.76	3.94	6.6	26.2
250	20.16	36.76	3.87	5.1	28.9
260	19.28	36.66	4.04	-1.1	34.2
270	19.19	36.66	4.08	-3.3	36.3
280	19.16	36.65	4.02	-3.0	37.2
290	19.10	36.65	4.09	-6.3	37.4
300	19.07	36.64	4.08	-7.6	36.6
350	18.12	36.53	4.15	-4.2	39.9
400	17.39	36.43	4.10	-9.3	41.9
450	16.24	36.24	3.94	-11.5	35.2

Table 44: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.77	35.69	4.50	NaN	NaN
10	28.79	35.69	4.51	10.1	158.9
20	28.81	35.75	4.51	10.1	158.8
30	28.84	35.82	4.51	13.1	156.3
40	28.86	35.87	4.50	20.2	156.8
50	28.67	35.94	4.48	24.2	150.0
60	26.97	36.22	4.54	18.6	128.1
70	25.28	36.31	4.28	8.1	101.8
80	23.95	36.40	4.04	0.1	84.7
90	23.34	36.43	3.91	-1.1	68.8
100	20.64	36.57	3.46	2.7	40.8
110	18.51	36.48	3.31	4.9	8.8
120	17.52	36.35	3.21	-1.6	0.5
130	17.05	36.31	3.30	-5.2	4.2
140	NaN	NaN	NaN	-8.5	5.0
150	NaN	NaN	NaN	-8.6	4.9

Table 45: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.87	35.91	4.49	NaN	NaN
10	28.87	35.91	4.49	16.9	153.3
20	28.88	35.91	4.50	16.9	153.3
30	28.91	35.98	4.50	17.0	153.7
40	28.89	36.01	4.50	19.0	154.1
50	28.88	36.05	4.50	19.4	157.0
60	28.96	36.22	4.48	17.8	159.6
70	28.49	36.21	4.47	15.6	153.9
80	27.05	36.24	4.50	14.6	138.7
90	25.57	36.31	4.50	11.0	122.4
100	23.87	36.38	4.20	6.8	105.4
110	22.36	36.46	3.84	3.1	85.7
120	21.38	36.49	3.58	3.7	60.8
130	19.01	36.37	3.29	8.2	40.2
140	17.42	36.27	3.21	6.4	27.0
150	16.45	36.17	3.16	5.2	17.0
160	15.66	36.09	3.23	3.9	8.8
170	15.07	36.00	3.23	1.5	5.0
180	14.13	35.85	3.12	-0.9	1.1
190	13.82	35.80	3.08	-1.9	-0.4
200	13.48	35.75	3.08	-3.8	-3.8
210	12.72	35.63	3.05	-4.1	-6.4
220	11.86	35.50	3.00	-3.9	-3.2
230	11.24	35.40	2.97	-7.3	-4.2
240	10.84	35.34	2.90	-9.0	-7.1
250	NaN	NaN	NaN	-11.0	-8.8
260	NaN	NaN	NaN	-11.0	-8.8

Table 46: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.97	36.26	4.49	NaN	NaN
10	28.98	36.26	4.47	19.4	177.9
20	28.98	36.26	4.50	18.0	174.7
30	28.95	36.25	4.50	17.2	174.0
40	28.95	36.25	4.49	18.7	174.4
50	28.94	36.25	4.48	19.0	174.6
60	28.93	36.25	4.47	18.9	174.2
70	28.94	36.26	4.49	18.7	174.3
80	28.95	36.28	4.49	18.7	174.7
90	28.74	36.33	4.47	16.6	175.6
100	27.50	36.52	4.42	14.6	174.7
110	26.33	36.44	4.33	13.2	159.4
120	23.30	36.41	4.10	11.0	138.9
130	21.82	36.41	3.74	7.2	124.3
140	21.12	36.46	3.39	8.6	110.6
150	20.09	36.48	3.38	7.7	97.6
160	19.10	36.55	3.28	2.4	88.1
170	18.41	36.49	3.28	2.2	82.8
180	17.48	36.37	3.29	3.8	79.7
190	16.70	36.23	3.22	3.5	77.2
200	15.92	36.10	3.17	1.5	72.9
210	15.24	36.00	3.15	-0.9	68.1
220	14.89	35.95	3.13	-0.5	61.8
230	14.29	35.86	3.11	-0.2	56.8
240	13.38	35.73	3.06	-0.6	51.1
250	12.42	35.58	3.03	-1.4	44.7
260	11.64	35.46	2.97	-2.0	37.3
270	11.28	35.41	2.95	-3.5	31.7
280	10.84	35.35	2.94	-2.8	26.5
290	10.24	35.27	2.96	-2.6	24.2
300	9.72	35.20	2.94	-4.6	24.4
350	8.43	35.02	2.90	-3.8	21.3

Table 47: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.08	36.24	4.49	NaN	NaN
10	29.08	36.24	4.47	8.6	162.2
20	29.08	36.24	4.49	7.4	162.6
30	29.04	36.23	4.48	9.8	162.7
40	29.00	36.23	4.49	13.2	162.8
50	28.98	36.27	4.48	13.8	164.7
60	28.93	36.29	4.52	13.1	168.5
70	28.77	36.31	4.52	14.1	171.8
80	28.74	36.42	4.49	16.8	180.3
90	28.03	36.45	4.57	16.7	184.7
100	27.44	36.55	4.45	14.9	189.4
110	27.04	36.63	4.35	11.6	195.1
120	26.58	36.66	4.25	10.6	191.2
130	25.94	36.77	4.09	9.6	178.4
140	24.30	36.81	3.84	5.2	167.7
150	22.86	36.88	3.61	-1.3	165.2
160	21.89	36.81	3.48	-1.5	159.3
170	20.08	36.55	3.13	4.9	146.8
180	19.09	36.48	2.98	6.3	139.3
190	18.79	36.47	2.97	4.1	131.7
200	17.82	36.37	3.08	0.6	126.7
210	16.17	36.15	3.12	1.3	119.5
220	15.42	36.04	3.12	1.1	112.1
230	15.08	35.99	3.10	-0.1	105.8
240	14.87	35.96	3.09	-2.9	103.1
250	14.52	35.90	3.07	-4.1	101.4
260	14.23	35.85	3.01	-2.7	100.3
270	13.90	35.80	3.00	-0.5	99.1
280	13.44	35.73	3.03	0.6	96.9
290	13.41	35.72	3.01	1.3	92.7
300	13.25	35.70	3.01	-0.0	90.1
350	11.86	35.47	2.92	-1.7	82.5
400	10.46	35.29	2.94	0.6	66.0
450	8.31	35.02	2.96	-2.2	40.6
500	7.37	34.93	3.06	2.1	30.7

Table 48: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.01	36.26	4.46	NaN	NaN
10	29.02	36.26	4.48	15.5	162.2
20	28.96	36.30	4.49	15.5	162.2
30	28.88	36.34	4.50	19.3	169.8
40	28.80	36.35	4.51	20.7	173.2
50	28.82	36.42	4.50	17.8	173.6
60	28.83	36.47	4.49	12.2	173.6
70	28.84	36.50	4.48	10.1	174.8
80	28.83	36.50	4.48	10.7	175.5
90	28.36	36.57	4.46	10.3	178.6
100	28.25	36.60	4.43	14.5	177.4
110	27.90	36.65	4.40	17.6	175.4
120	26.65	36.65	4.27	17.8	172.4
130	26.35	36.72	4.18	20.8	164.3
140	25.13	36.86	3.96	16.9	150.7
150	24.04	36.92	3.76	0.1	145.5
160	22.52	36.87	3.59	-2.9	147.3
170	20.63	36.70	3.34	3.6	144.3
180	19.97	36.67	3.29	-3.6	145.7
190	19.05	36.64	3.61	-2.3	148.1
200	18.42	36.55	3.61	3.6	142.8
210	17.77	36.45	3.54	5.8	133.0
220	17.00	36.31	3.39	0.7	125.4
230	16.89	36.31	3.51	-4.6	123.1
240	16.44	36.24	3.57	-6.9	121.1
250	16.17	36.19	3.51	-9.9	119.7
260	15.91	36.15	3.46	-9.5	117.8
270	15.65	36.10	3.41	-6.3	112.4
280	15.41	36.06	3.34	-6.5	107.6
290	15.16	36.02	3.34	-5.4	108.3
300	15.10	36.01	3.33	-2.2	108.4
350	12.67	35.61	3.01	5.9	88.1
400	12.05	35.50	2.94	-6.0	73.0
450	11.11	35.36	2.89	-5.0	76.3
500	8.93	35.08	2.89	1.9	49.7
550	7.41	34.93	3.04	4.5	32.0
600	6.96	34.91	3.16	2.6	26.5

Table 49: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.82	36.35	4.49	NaN	NaN
10	28.82	36.34	4.48	16.7	120.7
20	28.81	36.34	4.50	20.1	122.8
30	28.77	36.35	4.50	19.4	122.7
40	28.75	36.36	4.51	23.3	123.6
50	28.68	36.37	4.49	25.5	124.6
60	28.58	36.39	4.50	26.3	123.9
70	28.52	36.40	4.50	24.5	127.3
80	28.46	36.41	4.46	21.3	130.6
90	28.41	36.44	4.48	16.1	131.7
100	27.58	36.51	4.42	12.7	130.5
110	26.83	36.60	4.30	15.3	122.8
120	26.61	36.65	4.23	18.8	114.4
130	26.02	36.74	4.09	15.2	107.9
140	25.02	36.88	3.93	5.7	110.3
150	24.32	36.93	3.79	0.7	117.8
160	23.88	36.98	3.74	2.3	121.2
170	22.77	36.97	3.66	-3.9	118.2
180	22.18	36.93	3.64	-8.5	115.8
190	21.32	36.89	3.64	-8.5	108.0
200	19.72	36.73	3.69	-9.6	100.7
210	19.27	36.67	3.63	-11.8	97.0
220	19.02	36.64	3.81	-16.0	95.1
230	18.88	36.64	4.13	-16.3	96.8
240	18.56	36.58	3.92	-12.8	98.6
250	18.22	36.54	3.93	-11.3	97.6
260	17.83	36.50	3.97	-12.9	97.0
270	17.51	36.46	4.05	-12.0	95.8
280	17.32	36.42	4.04	-10.5	95.7
290	16.85	36.34	3.88	-7.7	96.1
300	16.77	36.33	3.87	-5.0	98.3
350	14.93	35.97	3.22	-4.3	96.4
400	14.33	35.87	3.15	1.9	86.4
450	13.01	35.66	3.08	-2.5	70.0
500	11.39	35.40	2.88	-2.0	66.4
550	10.52	35.27	2.86	3.8	56.0
600	8.42	35.02	2.90	-2.5	49.7
650	7.65	34.95	3.00	5.8	39.7
700	6.93	34.91	3.17	-4.1	31.7

Table 50: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	28.89	36.35	4.48	NaN	NaN
10	28.89	36.35	4.48	26.8	62.3
20	28.84	36.34	4.49	29.5	63.7
30	28.83	36.35	4.49	27.1	61.6
40	28.64	36.38	4.51	22.8	61.8
50	28.61	36.38	4.49	21.5	61.1
60	28.60	36.38	4.47	23.5	61.9
70	28.59	36.38	4.50	24.5	63.0
80	28.56	36.39	4.48	22.5	63.4
90	28.13	36.47	4.46	21.4	66.9
100	27.53	36.53	4.39	20.6	64.2
110	26.92	36.61	4.30	14.6	56.0
120	26.21	36.69	4.16	4.2	55.2
130	25.45	36.80	4.02	-5.0	60.9
140	24.77	36.87	4.26	-6.9	70.9
150	24.02	36.87	3.88	-4.7	76.0
160	23.15	36.89	3.76	-7.5	75.8
170	22.05	36.87	3.84	-11.7	75.6
180	21.10	36.81	3.69	-12.5	78.2
190	20.83	36.80	3.76	-11.6	79.2
200	20.23	36.75	3.80	-10.9	79.5
210	19.82	36.71	3.65	-10.2	80.1
220	19.42	36.67	3.90	-10.8	81.1
230	19.18	36.64	3.73	-14.6	81.5
240	18.69	36.58	3.66	-17.0	81.9
250	18.48	36.57	3.82	-15.9	82.6
260	18.43	36.57	3.95	-15.3	81.1
270	18.35	36.55	3.88	-13.7	80.0
280	18.33	36.56	3.95	-10.6	79.2
290	18.18	36.54	3.97	-8.2	75.4
300	17.93	36.51	3.97	-7.1	70.2
350	16.68	36.27	3.50	1.5	54.7
400	15.45	36.06	3.26	-0.2	39.8
450	14.04	35.83	3.17	1.6	34.5
500	12.94	35.64	3.02	7.3	30.7
550	11.66	35.44	2.92	-0.2	21.4
600	10.70	35.29	2.84	-5.6	21.8
650	9.65	35.21	3.04	-0.9	16.3

Table 51: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.07	36.20	4.48	NaN	NaN
10	28.99	36.20	4.50	6.5	18.2
20	28.95	36.27	4.49	7.5	20.2
30	28.89	36.32	4.49	18.8	18.1
40	28.86	36.34	4.50	23.3	15.4
50	28.83	36.34	4.49	25.0	14.1
60	28.82	36.35	4.49	24.0	12.9
70	28.81	36.48	4.48	21.6	12.9
80	28.15	36.50	4.45	15.4	13.7
90	27.94	36.50	4.45	12.2	14.2
100	27.54	36.55	4.40	12.7	13.1
110	26.93	36.62	4.30	6.7	14.0
120	26.12	36.75	4.13	0.0	24.2
130	25.04	36.86	4.19	-5.0	34.4
140	23.66	36.89	4.58	-11.0	42.2
150	22.76	36.88	4.47	-12.1	47.2
160	22.33	36.87	4.37	-14.4	49.0
170	21.85	36.85	4.29	-15.4	46.7
180	21.26	36.81	3.67	-14.3	46.2
190	20.54	36.76	3.67	-15.0	47.6
200	20.19	36.73	3.57	-16.2	47.6
210	19.64	36.69	3.61	-15.6	50.0
220	19.55	36.68	3.77	-16.2	52.7
230	19.43	36.67	3.81	-18.4	52.2
240	19.38	36.67	3.88	-18.7	51.2
250	19.21	36.65	3.86	-17.7	50.6
260	19.17	36.65	3.86	-17.7	49.4
270	19.02	36.63	3.85	-21.6	43.3
280	18.66	36.60	3.97	-21.8	39.8
290	18.53	36.58	4.02	-19.8	38.0
300	18.34	36.55	3.99	-15.5	38.4
350	18.06	36.52	3.97	-7.5	39.0
400	16.50	36.25	3.67	-5.9	30.6
450	15.13	36.00	3.20	-1.4	24.0
500	13.81	35.78	3.08	-10.1	23.9
550	12.51	35.62	3.25	-7.7	10.7
600	11.41	35.48	3.32	-8.1	14.5

Table 52: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1710. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.11	36.20	4.46	NaN	NaN
10	29.05	36.21	4.48	15.9	-27.0
20	29.01	36.25	4.50	14.6	-23.8
30	28.95	36.27	4.51	17.9	-22.9
40	28.86	36.30	4.52	17.4	-26.6
50	28.78	36.30	4.49	19.1	-31.3
60	28.71	36.31	4.49	19.5	-33.9
70	28.61	36.33	4.49	15.5	-29.6
80	28.33	36.43	4.51	8.6	-19.9
90	27.86	36.49	4.50	3.7	-15.2
100	27.11	36.61	4.41	0.3	-14.9
110	26.49	36.74	4.22	2.1	-9.1
120	25.10	36.84	4.11	6.4	6.9
130	23.01	36.87	3.89	0.9	17.9
140	22.57	36.86	4.44	-3.3	25.5
150	22.08	36.84	4.41	-4.0	29.9
160	21.72	36.83	4.14	-7.4	30.8
170	21.39	36.81	3.98	-12.3	30.7
180	21.16	36.81	3.64	-14.0	30.5
190	20.92	36.78	3.66	-14.5	29.5
200	20.64	36.76	3.83	-15.3	27.8
210	20.43	36.75	3.58	-14.4	24.7
220	20.11	36.72	3.60	-9.1	22.8
230	19.89	36.70	3.70	-8.8	23.4
240	19.63	36.67	3.69	-13.0	19.7
250	19.47	36.66	3.59	-15.2	15.4
260	19.31	36.64	3.72	-14.5	9.2
270	19.18	36.63	3.76	-13.4	4.1
280	18.86	36.60	3.79	-13.4	0.4
290	18.69	36.58	3.80	-10.8	-0.7
300	18.58	36.57	3.89	-8.6	1.0
350	17.88	36.48	3.99	-8.5	5.5
400	16.66	36.25	3.39	-8.2	13.4
450	14.95	35.96	3.10	-10.8	9.8

Table 53: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.49	36.30	4.60	NaN	NaN
10	25.49	36.30	4.60	-8.2	148.9
20	25.49	36.30	4.61	-8.7	147.0
30	25.49	36.30	4.61	-9.4	146.0
40	25.49	36.30	4.59	-8.4	147.7
50	25.50	36.30	4.59	-8.0	146.4
60	25.25	36.29	4.47	-6.5	142.4
70	23.68	36.49	3.98	-5.8	132.9
80	21.85	36.61	3.39	-3.1	126.1
90	20.52	36.55	3.06	2.1	116.6
100	18.92	36.39	3.00	2.5	99.5
110	16.67	36.11	3.02	-6.9	60.1
120	13.57	35.73	3.01	-9.9	33.5
130	12.27	35.58	2.97	-6.4	19.4
140	NaN	NaN	NaN	-4.5	10.3

Table 54: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.66	36.31	4.59	NaN	NaN
10	25.66	36.31	4.60	-7.7	143.9
20	25.62	36.30	4.59	-6.9	143.8
30	25.42	36.26	4.57	-7.2	144.6
40	25.43	36.27	4.57	-7.9	144.2
50	25.40	36.27	4.55	-8.0	144.0
60	25.40	36.28	4.52	-7.0	145.4
70	25.06	36.37	4.28	-5.6	144.1
80	23.92	36.50	3.95	-5.3	137.9
90	22.79	36.55	3.64	-5.9	128.6
100	21.36	36.54	3.34	-4.6	119.0
110	19.76	36.54	2.95	2.3	109.0
120	18.86	36.52	3.09	11.5	95.6
130	17.72	36.36	3.11	10.4	79.2
140	16.87	36.24	3.10	5.8	66.7
150	15.88	36.09	3.08	-0.7	60.3
160	14.80	35.93	3.05	-3.5	54.1
170	12.96	35.66	3.01	-2.4	43.8
180	12.24	35.58	2.99	-1.9	34.4
190	12.05	35.55	2.98	-2.2	28.2
200	11.83	35.52	2.96	-2.4	24.0
210	11.38	35.45	2.97	-2.7	18.1
220	10.75	35.37	2.96	-2.9	13.2
230	10.01	35.27	2.96	-3.7	6.5
240	9.65	35.22	2.93	-6.7	1.7
250	NaN	NaN	NaN	-7.1	-1.0

Table 55: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.80	36.32	4.59	NaN	NaN
10	25.81	36.32	4.59	3.1	137.0
20	25.80	36.32	4.59	1.5	138.4
30	25.51	36.29	4.60	2.4	142.0
40	25.41	36.26	4.58	3.0	146.3
50	25.40	36.29	4.55	6.4	148.8
60	25.22	36.29	4.63	10.5	152.8
70	25.15	36.27	4.63	11.5	154.2
80	24.73	36.43	4.11	7.5	149.6
90	23.39	36.53	3.83	-1.7	144.4
100	22.28	36.56	3.55	-6.3	139.5
110	21.57	36.57	3.31	-7.9	136.3
120	20.69	36.56	3.07	-3.7	130.4
130	19.46	36.54	3.01	-1.1	126.2
140	18.98	36.53	3.02	-0.8	123.8
150	18.39	36.46	3.01	-0.3	121.3
160	17.72	36.38	3.05	-1.2	118.7
170	16.84	36.26	3.11	-3.3	117.0
180	16.53	36.22	3.07	-4.7	118.2
190	16.38	36.20	3.03	-1.2	118.7
200	16.18	36.17	3.06	5.6	113.9
210	15.70	36.09	3.14	6.8	107.8
220	15.09	35.99	3.10	4.4	101.6
230	14.33	35.87	3.07	1.1	99.8
240	13.53	35.75	3.01	1.0	97.4
250	13.05	35.69	3.00	0.5	92.8
260	12.24	35.57	3.00	-1.7	88.6
270	11.35	35.45	2.96	-1.7	83.2
280	10.83	35.38	2.96	-0.9	76.8
290	10.32	35.31	2.96	-0.8	69.4
300	9.54	35.21	2.98	-1.6	60.3
350	7.10	34.93	3.08	0.1	18.3

Table 56: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.32	36.29	4.64	NaN	NaN
10	25.32	36.29	4.63	9.5	146.3
20	25.25	36.31	4.63	7.3	147.4
30	25.22	36.30	4.62	4.8	148.0
40	25.17	36.29	4.62	5.7	149.5
50	25.16	36.29	4.63	4.7	149.6
60	25.14	36.28	4.63	3.7	151.6
70	25.13	36.29	4.62	3.2	152.6
80	25.16	36.31	4.61	2.8	153.0
90	25.05	36.33	4.51	1.7	154.5
100	23.85	36.54	3.85	-0.3	154.1
110	23.65	36.95	3.64	0.4	149.5
120	22.98	36.97	3.60	0.1	145.9
130	22.48	36.96	3.52	-0.7	142.7
140	21.61	36.91	3.58	-1.0	141.1
150	20.87	36.83	3.60	2.7	140.7
160	19.93	36.72	3.49	4.2	131.4
170	18.75	36.53	3.21	2.0	123.2
180	18.33	36.47	3.08	-1.4	125.6
190	17.82	36.40	3.05	-2.4	129.6
200	17.14	36.31	3.13	-3.2	129.1
210	16.74	36.26	3.16	-0.6	124.0
220	16.20	36.17	3.09	0.9	120.0
230	15.77	36.10	3.05	4.6	116.0
240	15.31	36.03	3.14	8.8	111.4
250	14.99	35.98	3.18	8.3	106.7
260	14.38	35.88	3.04	4.3	102.4
270	14.02	35.82	3.01	-1.4	101.0
280	13.58	35.75	2.94	-8.4	102.3
290	13.44	35.73	2.98	-11.6	106.4
300	13.02	35.66	2.99	-12.5	109.6
350	11.18	35.37	2.80	3.4	106.0
400	10.08	35.21	2.78	5.7	96.6
450	7.54	34.97	3.06	0.1	57.9
500	6.54	34.91	3.26	-2.3	26.8

Table 57: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.61	36.31	4.51	NaN	NaN
10	26.62	36.31	4.52	-10.6	148.7
20	26.63	36.32	4.52	-8.1	148.3
30	26.63	36.32	4.51	-8.6	147.8
40	26.63	36.32	4.53	-8.2	147.5
50	26.63	36.32	4.50	-9.1	147.9
60	25.98	36.36	4.53	-9.0	145.8
70	25.58	36.41	4.50	-3.9	140.5
80	25.30	36.37	4.56	-0.7	136.7
90	25.24	36.49	4.32	-1.2	136.2
100	24.97	36.88	3.80	1.7	136.5
110	24.33	36.91	3.71	4.4	134.8
120	23.75	36.95	3.64	4.8	132.2
130	23.21	36.96	3.62	4.4	132.8
140	22.69	36.96	3.58	2.8	131.5
150	21.94	36.92	3.63	-0.8	129.7
160	21.27	36.87	3.63	-0.4	127.7
170	20.19	36.72	3.45	-3.6	124.5
180	19.06	36.52	2.99	-8.3	123.8
190	18.37	36.47	3.13	-9.2	125.4
200	17.75	36.40	3.14	-6.3	124.4
210	17.26	36.38	3.55	-9.0	121.3
220	16.88	36.32	3.51	-13.3	119.5
230	16.76	36.30	3.51	-15.1	117.7
240	16.57	36.26	3.52	-13.4	115.6
250	16.37	36.23	3.47	-8.8	112.5
260	15.86	36.14	3.40	-5.8	109.8
270	15.25	36.03	3.31	-5.4	107.2
280	15.18	36.02	3.27	-5.5	105.9
290	15.09	36.00	3.23	-5.5	104.7
300	14.77	35.94	3.04	-6.0	106.3
350	12.37	35.55	2.79	0.8	96.8
400	10.87	35.32	2.81	3.6	93.0
450	10.24	35.23	2.77	3.8	87.9
500	8.85	35.06	2.80	10.0	76.2
550	6.92	34.91	3.10	7.4	45.3
600	6.52	34.91	3.26	2.6	28.4
650	NaN	NaN	NaN	-0.3	16.6

Table 58: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.53	36.30	4.51	NaN	NaN
10	26.54	36.30	4.51	6.8	109.9
20	26.55	36.30	4.53	8.1	109.2
30	26.55	36.30	4.52	8.5	109.1
40	26.55	36.30	4.52	7.6	108.5
50	26.55	36.31	4.51	5.6	108.8
60	26.58	36.48	4.27	0.6	112.4
70	26.33	36.63	4.10	1.1	114.9
80	25.87	36.77	3.92	-0.6	114.0
90	25.22	36.87	3.82	-1.6	112.0
100	24.86	36.89	3.74	2.0	110.1
110	24.47	36.95	3.72	1.3	107.4
120	24.18	36.96	3.69	-1.9	107.6
130	23.65	36.95	3.68	-3.7	106.5
140	23.24	36.95	3.67	-0.5	105.5
150	22.67	36.93	3.60	2.4	106.3
160	22.01	36.88	3.65	4.8	102.6
170	21.05	36.80	3.55	5.4	100.3
180	20.39	36.78	3.55	5.0	97.5
190	19.57	36.71	3.63	3.8	93.2
200	19.20	36.67	3.64	-0.6	88.5
210	18.88	36.62	3.62	-3.1	86.3
220	18.58	36.58	3.63	-3.7	88.0
230	18.41	36.56	3.64	-4.1	89.6
240	17.84	36.49	4.04	-3.8	92.4
250	17.46	36.44	4.01	-3.1	92.8
260	17.33	36.43	4.04	-6.2	93.3
270	17.12	36.39	4.01	-5.0	92.7
280	16.83	36.34	3.97	-1.7	91.9
290	16.60	36.31	3.92	-0.0	91.0
300	16.09	36.21	3.71	-2.6	88.7
350	14.80	36.00	3.57	-6.5	82.9
400	12.11	35.51	2.91	4.6	62.0
450	11.06	35.35	2.79	-2.0	54.9
500	10.07	35.21	2.77	0.9	56.1
550	8.87	35.05	2.78	8.2	52.4
600	7.99	34.98	2.88	3.4	47.7
650	7.06	34.91	3.05	2.2	34.8
700	6.73	34.91	3.19	-8.2	35.1
750	6.60	34.91	3.24	-6.8	26.7

Table 59: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.33	36.34	4.54	NaN	NaN
10	26.34	36.34	4.54	28.7	82.6
20	26.47	36.50	4.51	26.3	81.5
30	26.42	36.62	4.55	20.3	82.6
40	26.27	36.63	4.50	15.8	84.6
50	26.17	36.67	4.42	9.1	85.5
60	26.04	36.68	4.38	3.6	85.3
70	25.99	36.68	4.37	0.1	84.7
80	25.89	36.67	4.37	-0.3	85.9
90	25.72	36.72	4.30	4.3	92.5
100	25.35	36.79	3.98	7.8	96.8
110	25.15	36.82	3.99	6.3	97.9
120	24.09	36.93	3.70	-2.3	96.7
130	23.36	36.96	3.66	-8.1	96.0
140	23.18	36.97	3.64	-9.0	93.0
150	22.62	36.95	3.60	-1.6	90.6
160	22.41	36.96	3.59	1.9	87.5
170	22.09	36.94	3.57	1.8	87.6
180	21.81	36.91	3.60	4.5	87.2
190	21.15	36.88	3.61	8.0	83.1
200	19.98	36.73	4.01	2.4	81.1
210	19.14	36.66	3.94	-10.7	84.1
220	18.99	36.65	4.07	-13.1	84.9
230	18.89	36.64	4.16	-9.2	82.2
240	18.70	36.62	4.14	-3.0	79.7
250	18.57	36.60	4.13	1.3	76.1
260	18.30	36.55	3.90	0.9	73.3
270	17.98	36.51	3.97	-0.4	70.1
280	16.85	36.33	3.94	-2.5	65.6
290	16.72	36.32	3.85	-7.7	64.1
300	16.70	36.32	3.85	-11.8	65.1
350	15.74	36.15	3.65	-2.6	57.7
400	14.11	35.87	3.38	3.4	54.0
450	12.43	35.56	2.87	1.3	43.6
500	11.31	35.38	2.81	2.4	33.4
550	9.36	35.11	2.77	5.2	22.7
600	8.70	35.04	2.79	-3.9	10.7
650	8.42	35.03	2.88	-7.8	6.8

Table 60: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.16	36.59	4.52	NaN	NaN
10	26.17	36.59	4.52	-25.7	87.3
20	26.18	36.61	4.51	-25.8	87.3
30	26.14	36.61	4.48	-28.3	84.5
40	26.10	36.62	4.50	-25.3	85.8
50	26.07	36.63	4.51	-20.5	85.4
60	25.86	36.73	4.56	-15.9	84.5
70	25.84	36.74	4.55	-15.5	83.9
80	25.83	36.76	4.56	-15.9	83.7
90	25.76	36.77	4.53	-11.1	86.0
100	25.34	36.82	4.24	-8.9	86.8
110	24.66	36.86	4.19	-7.7	86.8
120	24.41	36.90	4.15	-5.9	87.8
130	23.50	36.93	4.16	-10.5	88.3
140	22.90	36.94	3.98	-14.7	85.7
150	22.47	36.93	4.00	-16.6	81.7
160	22.20	36.92	3.87	-21.3	76.8
170	22.06	36.91	3.93	-23.8	75.6
180	21.86	36.92	4.14	-19.5	75.0
190	21.35	36.89	4.11	-11.8	78.1
200	20.79	36.84	4.22	-10.8	75.8
210	20.64	36.82	4.20	-9.0	74.3
220	20.48	36.80	4.19	-8.5	72.1
230	20.34	36.79	4.18	-11.1	69.6
240	20.05	36.76	3.66	-13.3	70.5
250	19.73	36.72	3.76	-16.2	73.9
260	19.43	36.70	4.00	-20.1	78.3
270	18.76	36.61	3.96	-16.4	77.7
280	18.28	36.55	3.93	-11.0	75.9
290	18.16	36.54	3.96	-9.4	74.8
300	18.02	36.52	3.95	-9.8	73.3
350	16.64	36.30	3.79	-4.2	54.6
400	15.16	36.04	3.53	-11.0	40.4
450	14.65	35.95	3.41	-6.8	37.0
500	12.98	35.66	3.05	-1.2	25.2
550	11.21	35.45	3.22	-3.3	12.3
600	10.88	35.41	3.20	3.6	13.0

Table 61: Same as Table 18 for the cruise ID and the station number indicated.

Cruise ID: fc1712. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.31	36.50	4.52	NaN	NaN
10	26.32	36.51	4.52	-15.8	47.6
20	26.31	36.55	4.52	-16.8	47.7
30	26.17	36.59	4.51	-15.8	49.8
40	26.12	36.61	4.45	-17.5	49.7
50	26.06	36.66	4.41	-19.3	52.3
60	26.03	36.67	4.36	-16.7	54.6
70	26.00	36.70	4.27	-8.6	55.0
80	25.73	36.79	4.08	-0.6	56.5
90	25.58	36.83	4.12	-5.4	61.0
100	25.39	36.84	4.05	-7.7	62.9
110	25.10	36.85	3.98	-7.0	63.1
120	24.38	36.90	4.12	-12.7	64.0
130	23.35	36.94	4.15	-14.5	61.4
140	22.68	36.93	3.83	-13.3	57.9
150	22.37	36.92	3.93	-17.4	56.7
160	22.25	36.92	3.91	-18.9	57.5
170	21.95	36.91	3.98	-17.2	59.5
180	21.60	36.89	3.80	-17.4	60.4
190	21.26	36.86	3.94	-14.6	61.7
200	20.92	36.84	4.19	-11.2	61.8
210	20.65	36.82	3.82	-15.1	61.4
220	20.59	36.81	4.11	-22.0	62.0
230	20.11	36.76	4.00	-28.0	62.1
240	19.98	36.75	3.98	-30.3	65.0
250	19.79	36.73	3.99	-29.9	64.5
260	19.44	36.69	3.57	-28.0	62.9
270	19.16	36.65	3.80	-22.7	61.5
280	18.83	36.61	3.59	-18.8	62.3
290	18.42	36.55	3.62	-18.6	64.1
300	18.31	36.55	3.87	-20.5	63.5
350	17.66	36.47	4.09	-21.4	52.2
400	16.12	36.22	3.91	-5.0	37.4
450	15.13	36.05	3.74	-2.2	23.5

Table 62: Same as Table 18 for the cruise ID and the station number indicated.

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