



NOAA Data Report, OAR AOML - 74

**Oceanographic data collected in the Straits of Florida at 27°N during the year 2016,
including the estimated Florida Current transport**

Authors:

Rigoberto F. Garcia
Christopher S. Meinen
Ryan H. Smith

Date:

June 29, 2017

Atlantic Oceanographic and Meteorological Laboratory
Miami, Florida

noaa

National Oceanic and Atmospheric
Administration

Office of Oceanic and Atmospheric
Research

**Oceanographic data collected in the Straits of Florida at 27°N during the year 2016,
including the estimated Florida Current transport**

Rigoberto F. Garcia
University of Miami / Cooperative Institute for Marine and Atmospheric Studies
NOAA/ Atlantic Oceanographic and Meteorological Laboratory
Miami, Florida

Christopher S. Meinen
NOAA/ Atlantic Oceanographic and Meteorological Laboratory
Miami, Florida

Ryan H. Smith
NOAA/ Atlantic Oceanographic and Meteorological Laboratory
Miami, Florida

June 29, 2017



**U.S. Department
of Commerce**

Wilbur Ross
Secretary

**National Oceanic and
Atmospheric Administration**

Benjamin Friedman (Acting)
Under Secretary/Administrator

**Office of Oceanic and
Atmospheric Research**

Craig McLean
Assistant Administrator

Disclaimer

NOAA does not approve, recommend, or endorse any proprietary product or material mentioned in this document. No reference shall be made to NOAA or to this document in any advertising or sales promotion, which would indicate or imply that NOAA approves, recommends, or endorses any proprietary product or proprietary material herein or which has as its purpose any intent to cause directly or indirectly the advertised product to be used or purchased because of this document.

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

Contents

Table of Contents	iv
List of Figures	v
List of Tables	viii
Abstract	ix
1 Introduction	1
1.1 Continuous observations	2
1.2 Shipboard measurements	3
2 Cable observations	3
3 Dropsonde - XBT cruises	5
4 CTD - LADCP - SADCP cruises	7
5 Issues during the year	13
5.1 Cable observations	13
5.2 Dropsonde - XBT cruises	13
5.3 CTD - LADCP - SADCP cruises	13
6 Data availability	14
7 Acknowledgements	15
8 References	16

List of Figures

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.	2
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.	4
3	Temperature sections measured with XBT on the indicated dates. Date format is year, month, and day.	6
4	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. . . .	8
5	Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.	9
6	Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.	10
7	Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.	11
8	Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.	12

List of Tables

1	Nominal locations and depths (m) for the dropsonde/XBT and CTD/LADCP data collected in the Straits of Florida.	1
2	Dropsonde/XBT cruise information: cruise number, cruise date, and transport values estimated with and without the tide signals. NaN indicates insufficient data to estimate transport.	5
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.	7
4	Florida Current daily transport estimated using voltage measurements on a telephone cable. Units are Sverdrups ($1 \text{ Sv} = 10^6 \text{ m}^3 \text{ s}^{-1}$). 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.	18
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. . .	20
6	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.	22
7	Same as Table 6 for the cruise on the indicated date.	23
8	Same as Table 6 for the cruise on the indicated date.	24
9	Same as Table 6 for the cruise on the indicated date.	25
10	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. . .	27
11	Same as Table 10 for LADCP data collected on the indicated dates.	28
12	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.	30

13	Same as Table 12 for the cruise ID and the station number indicated.	31
14	Same as Table 12 for the cruise ID and the station number indicated.	32
15	Same as Table 12 for the cruise ID and the station number indicated.	33
16	Same as Table 12 for the cruise ID and the station number indicated.	34
17	Same as Table 12 for the cruise ID and the station number indicated.	35
18	Same as Table 12 for the cruise ID and the station number indicated.	36
19	Same as Table 12 for the cruise ID and the station number indicated.	37
20	Same as Table 12 for the cruise ID and the station number indicated.	38
21	Same as Table 12 for the cruise ID and the station number indicated.	39
22	Same as Table 12 for the cruise ID and the station number indicated.	40
23	Same as Table 12 for the cruise ID and the station number indicated.	41
24	Same as Table 12 for the cruise ID and the station number indicated.	42
25	Same as Table 12 for the cruise ID and the station number indicated.	43
26	Same as Table 12 for the cruise ID and the station number indicated.	44
27	Same as Table 12 for the cruise ID and the station number indicated.	45
28	Same as Table 12 for the cruise ID and the station number indicated.	46
29	Same as Table 12 for the cruise ID and the station number indicated.	47
30	Same as Table 12 for the cruise ID and the station number indicated.	48
31	Same as Table 12 for the cruise ID and the station number indicated.	49
32	Same as Table 12 for the cruise ID and the station number indicated.	50
33	Same as Table 12 for the cruise ID and the station number indicated.	51
34	Same as Table 12 for the cruise ID and the station number indicated.	52
35	Same as Table 12 for the cruise ID and the station number indicated.	53
36	Same as Table 12 for the cruise ID and the station number indicated.	54
37	Same as Table 12 for the cruise ID and the station number indicated.	55

38	Same as Table 12 for the cruise ID and the station number indicated.	56
39	Same as Table 12 for the cruise ID and the station number indicated.	57
40	Same as Table 12 for the cruise ID and the station number indicated.	58
41	Same as Table 12 for the cruise ID and the station number indicated.	59
42	Same as Table 12 for the cruise ID and the station number indicated.	60
43	Same as Table 12 for the cruise ID and the station number indicated.	61
44	Same as Table 12 for the cruise ID and the station number indicated.	62
45	Same as Table 12 for the cruise ID and the station number indicated.	63
46	Same as Table 12 for the cruise ID and the station number indicated.	64
47	Same as Table 12 for the cruise ID and the station number indicated.	65
48	Same as Table 12 for the cruise ID and the station number indicated.	66
49	Same as Table 12 for the cruise ID and the station number indicated.	67
50	Same as Table 12 for the cruise ID and the station number indicated.	68
51	Same as Table 12 for the cruise ID and the station number indicated.	69
52	Same as Table 12 for the cruise ID and the station number indicated.	70
53	Same as Table 12 for the cruise ID and the station number indicated.	71
54	Same as Table 12 for the cruise ID and the station number indicated.	72
55	Same as Table 12 for the cruise ID and the station number indicated.	73
56	Same as Table 12 for the cruise ID and the station number indicated.	74

Abstract

This report summarizes the Florida Current data collected along 27°N during calendar year 2016 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.

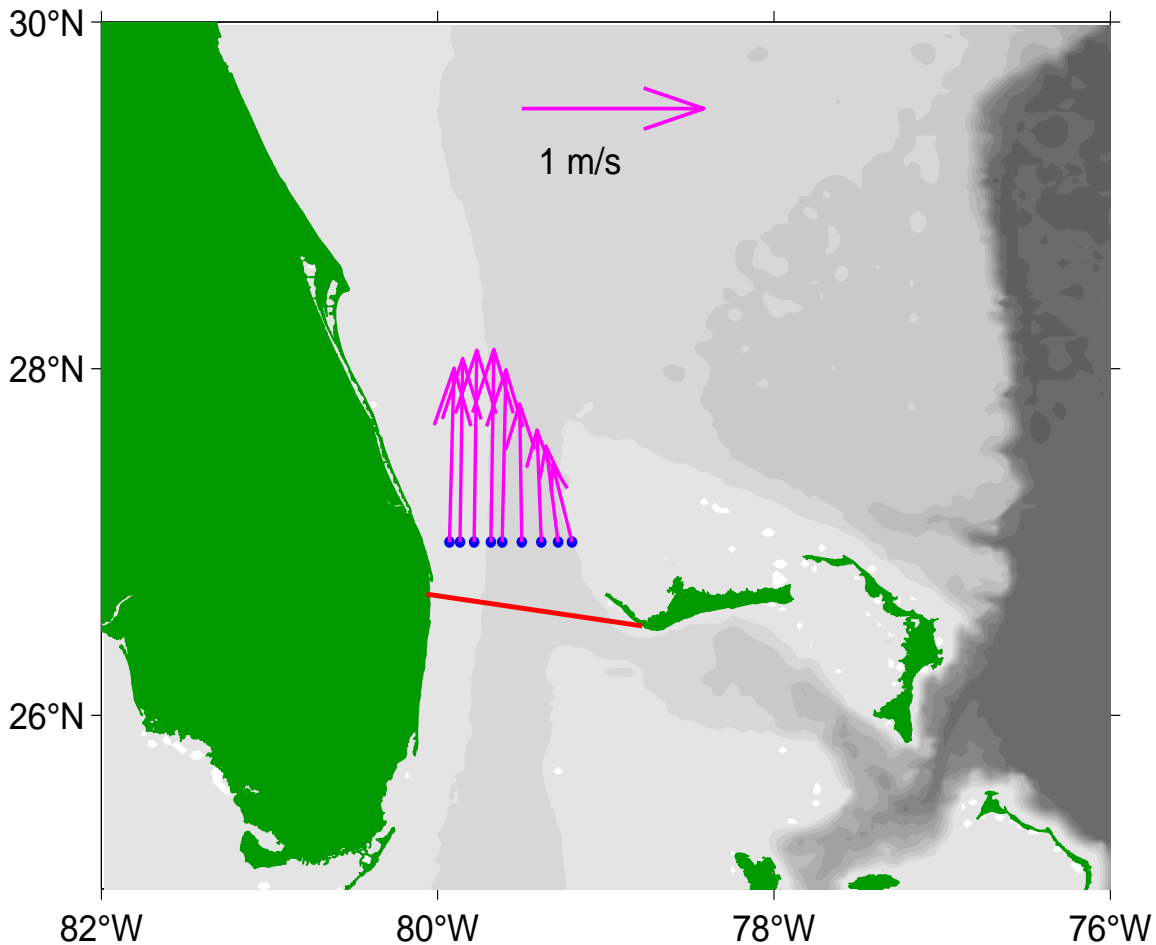


Figure 1: Map of the Straits of Florida study area. Blue dots indicate the locations of dropsonde, XBT and CTD/LADCP stations. Red line shows the approximate location of the telephone cable used for the voltage measurements. Magenta vectors illustrate the time mean vertically-averaged horizontal velocities 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 ($1 \text{ Sv} = 10^6 \text{ m}^3 \text{ s}^{-1}$). 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).

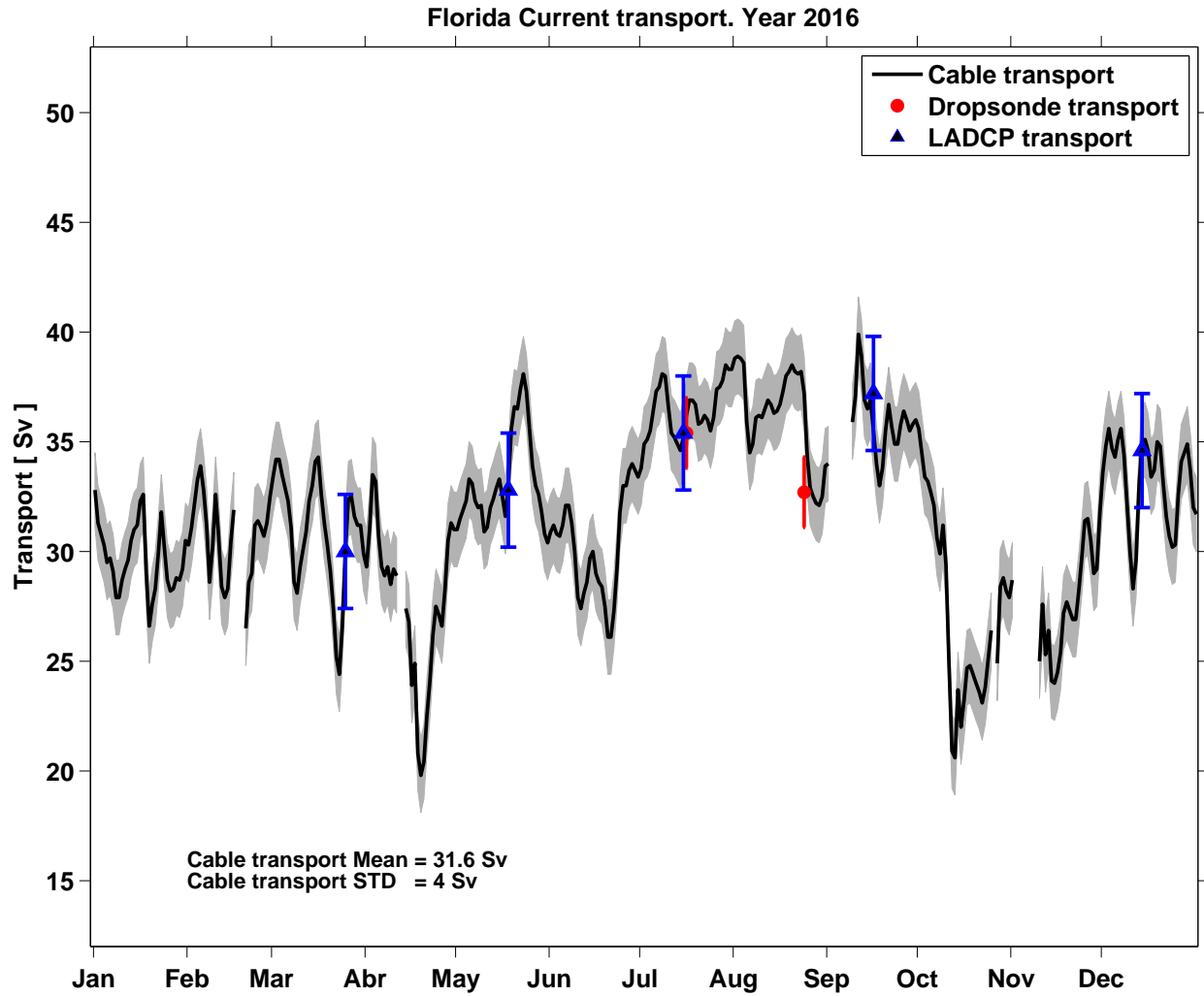


Figure 2: Observed Florida Current volume transports measured by cable voltage (black line), dropsonde sections (red dots) and LADCP sections (blue triangles). For each measurement system the estimated error bar is also shown. The annual mean and standard deviation (STD) from the cable voltage estimates 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	2016	4	26	16	NaN	NaN
2	2016	6	30	16	NaN	NaN
3	2016	7	15	13	37.4	35.4
4	2016	8	23	11	34.3	32.7
5	2016	9	27	16	NaN	NaN

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

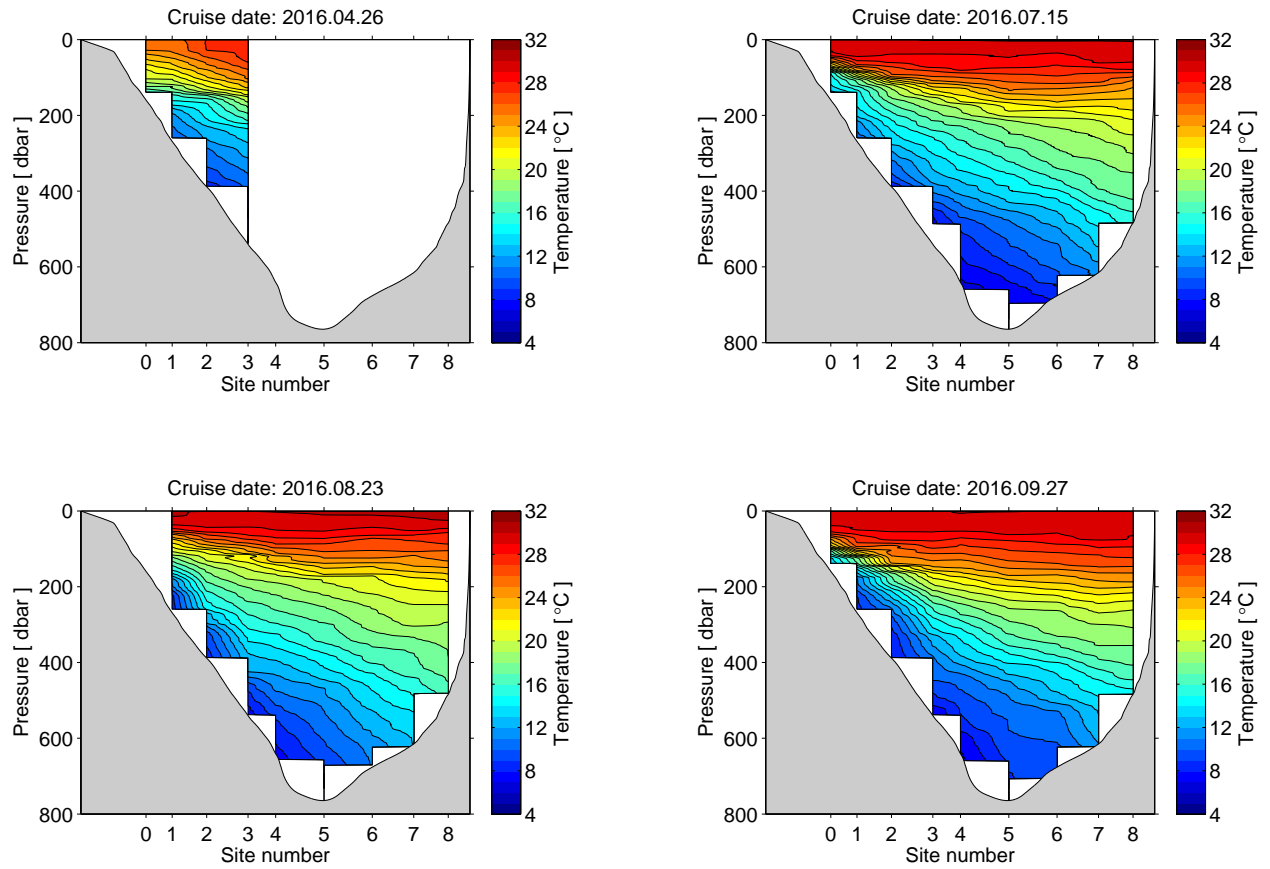


Figure 3: Temperature sections measured with XBT on the indicated dates. Date format is year, month, and day.

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 4. 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
fc1603	2016	3	24	4	29.3	30.0
fc1605	2016	5	17	2	32.1	32.8
fc1607	2016	7	14	2	34.5	35.4
fc1609	2016	9	15	20	38.0	37.2
fc1612	2016	12	13	5	36.8	34.6

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.

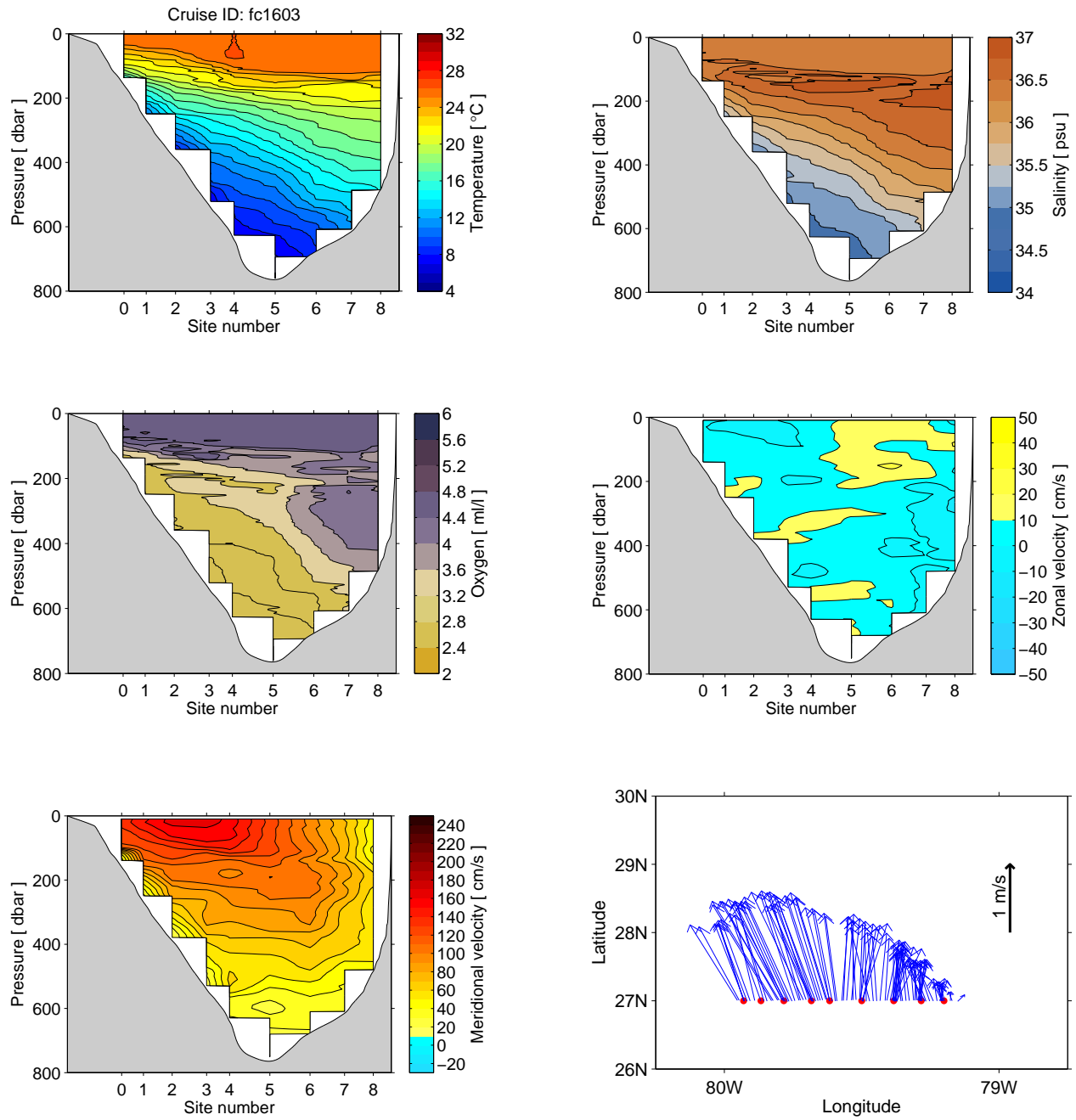


Figure 4: Sections of temperature, salinity, dissolved oxygen (all from CTD), velocity profile (LADCP) and vector velocity map at 50m (SADCP) collected by research vessel. Cruise ID noted above the temperature panel; cruise date are shown in Table 3.

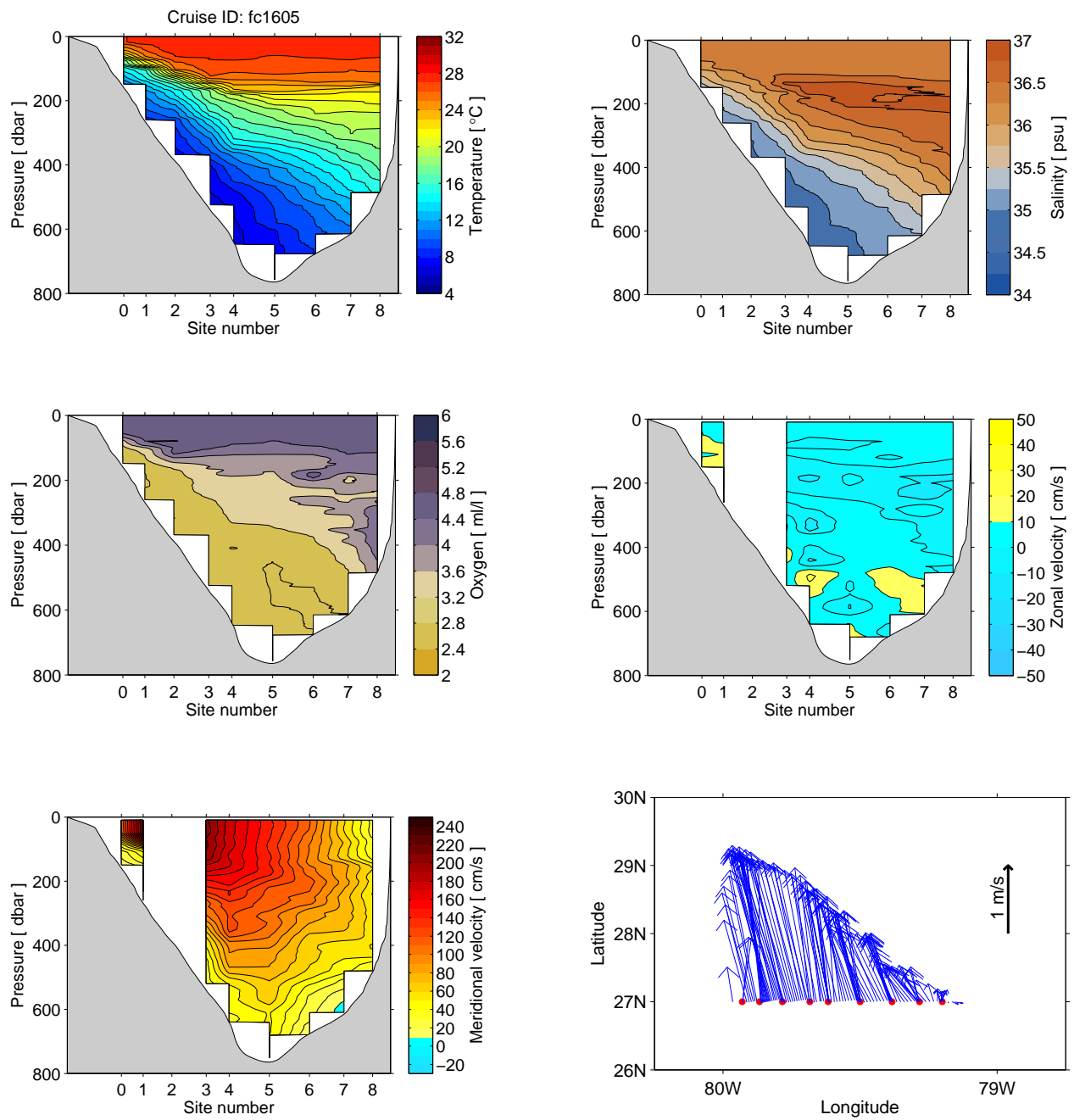


Figure 5: Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.

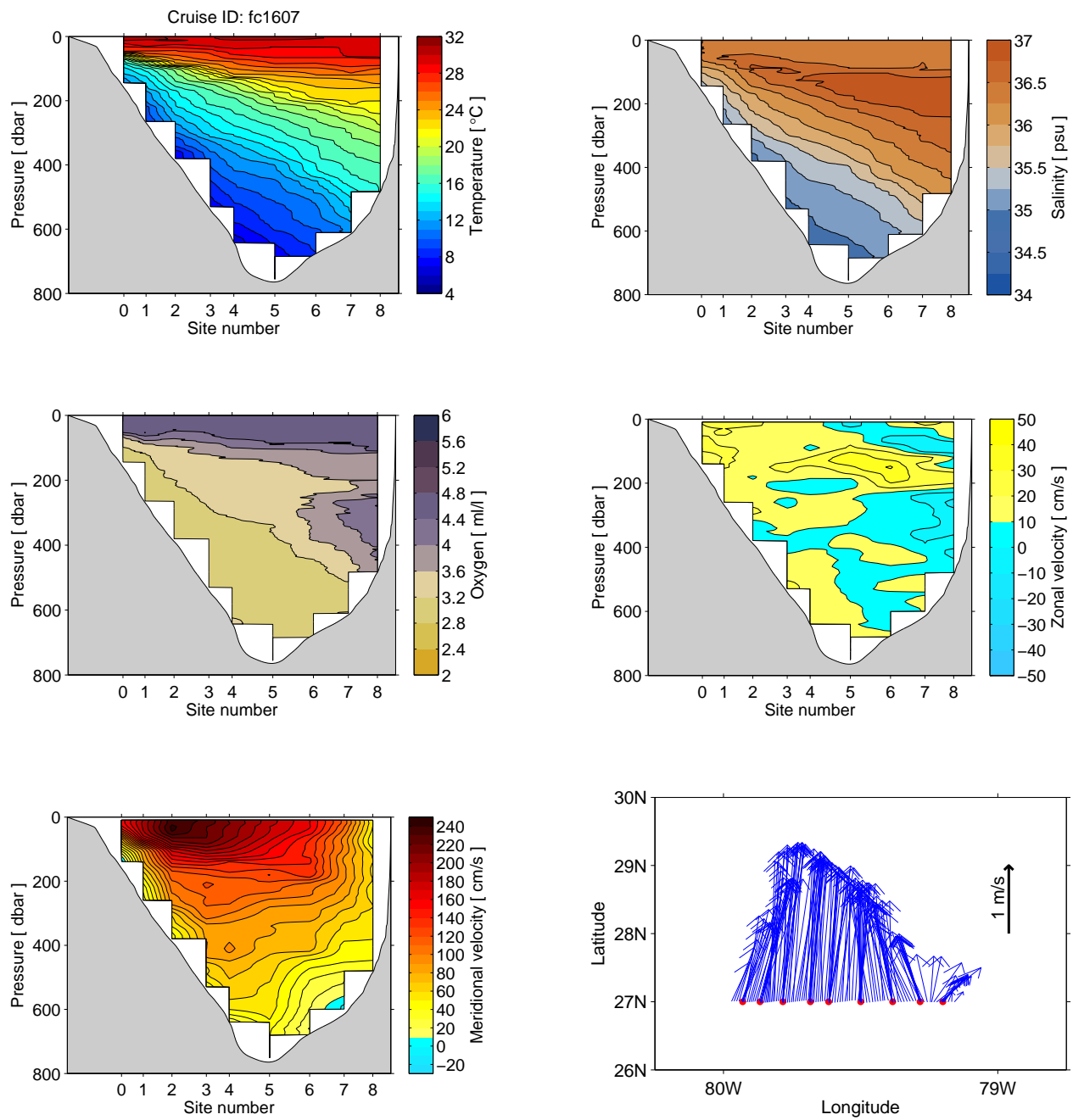


Figure 6: Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.

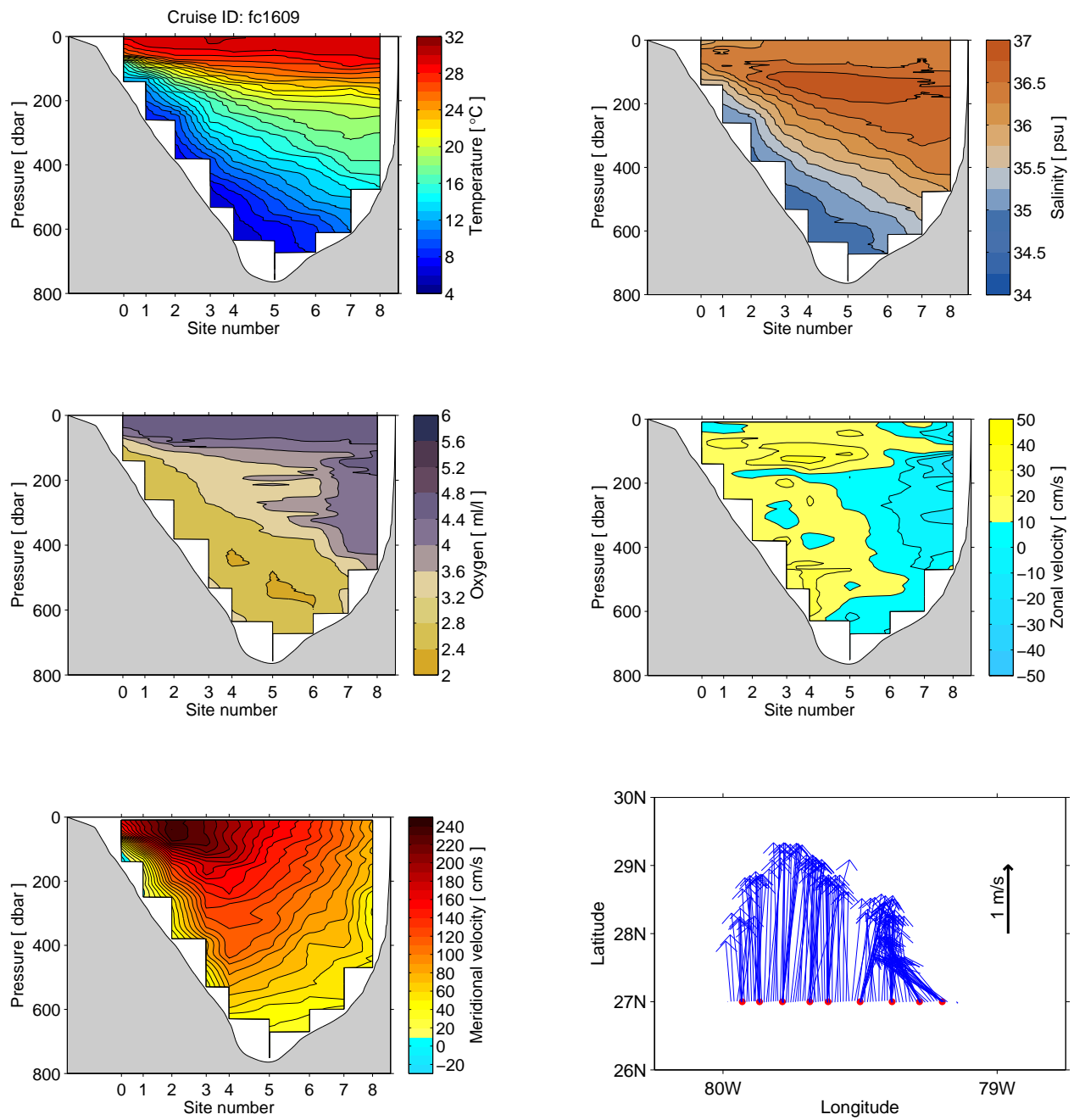


Figure 7: Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.

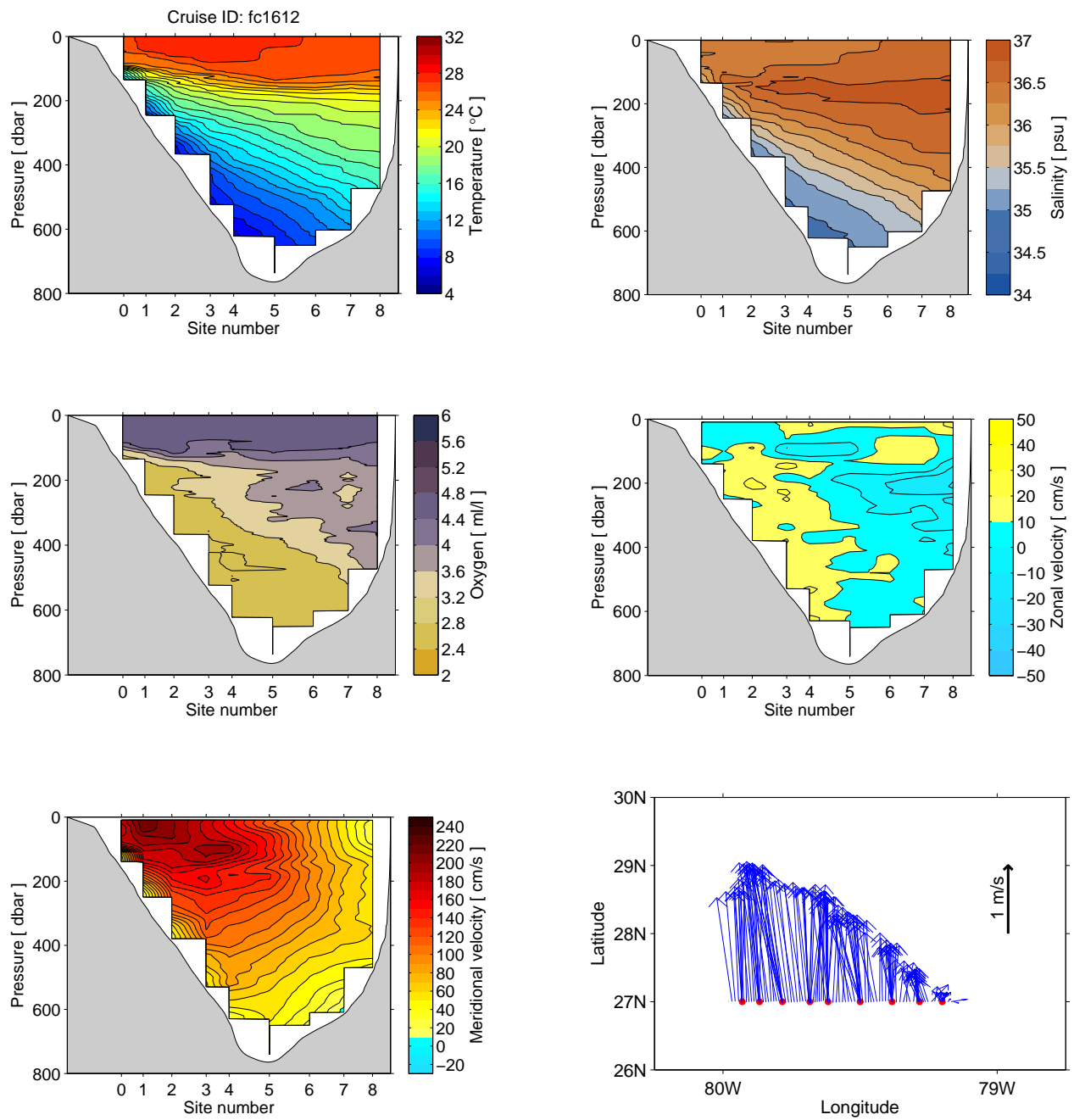


Figure 8: Same as Figure 4 for the data collected on the cruise ID indicated above the temperature panel.

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 21 days total during this year. As a result, there are no cable transport estimates for the following dates: February 17-19; April 11-12; September 1-7; October 25; and November 1-8. 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.

The dropsondes used on April 27, 2016 and on June 30, 2016 were lost during the cruises. Electronics issues during the cruise on September 27, 2016 resulted in the failure of the velocity estimates at several stations. For these three cruises, no transport was calculated.

During the cruise of June 30, 2016, no XBT data were collected. Also, during the cruises of April 26, 2016 and August 23, 2016 the XBT system failed to record data in at least one of the stations.

5.3 CTD - LADCP - SADCP cruises

During 2016, LADCP and SADCP data collected from all five cruises were found to be suitable for scientific analysis. During fc1605, a battery pack failure resulted in the loss of LADCP data on one cast. Additionally on the same cruise, the upward-facing LADCP (one of the two ADCP instruments used in the dual LADCP system employed on these surveys) failed on two casts. As a result, LADCP velocity profiles created for these casts only incorporate downward-facing LADCP data. Despite the failure of the upward-facing unit on these two casts, the final velocity data were still found to be of high quality.

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 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/0159429>).

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/0162481>).

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

7 Acknowledgements

The authors wish to sincerely thank the many people who have helped to collect the data presented in this report. Special thanks go to the engineers who have maintained the cable recording system (Ulises Rivero, Pedro Pena, and Tom Sevilla). Thanks also to Batelco for allowing the recording system to be housed in their facility on Grand Bahama Island. Great appreciation also to the scientists, engineers and technicians who participated in the small charter boat dropsonde/XBT cruises (Pedro Pena, and Tom Sevilla) and on the R/V Walton Smith CTD/LADCP/SADCP cruises (Jay Hooper, Renellys Perez, Grant Rawson, Tom Sevilla, Andy Stefanick, and Erik Valdes). And many thanks to the fine captains and crews of the vessels used to collect this data. Finally, the authors also want to express their thanks to the technical support staff at AOML who have aided in the processing of these data including George Berberian, Yeun-Ho Daneshzadeh and Jay Hooper. The collection and processing of the data in this report was supported by the NOAA Climate Program Office - Ocean Observing and Monitoring Division and the NOAA Atlantic Oceanographic and Meteorological Laboratory.

8 References

- Daneshzadeh, Y.-H. C., J. F. Festa, and S. M. Minton, 1994: **Procedures used at AOML to Quality Control Real Time XBT Data Collected in the Atlantic Ocean**, *NOAA Technical Memorandum ERL AOML-78*, 44 pp.
- Garcia, R. F., and C. S. Meinen, 2014: **Accuracy of Florida Current volume transport measurements at 27N using multiple observational techniques**, *J. Atmos. Ocean. Tech.*, **31** (5), 1169-1180, 10.1175/JTECH-D-13-00148.1.
- Firing, E., J. M. Hummon, and T. K. Chereskin, 2012: **Improving the quality and accessibility of current profile measurements in the Southern Ocean**. *Oceanography* **25**(3):164165, <http://dx.doi.org/10.5670/oceanog.2012.91>.
- Hooper, J. A., and M. O. Baringer, 2016: **Hydrographic measurements collected aboard the UNOLS Ship R/V Walton Smith, 2015: Western Boundary Time Series cruise: Florida Current**. *NOAA Data Report, OAR-AOML-55*, 164 pp.
- Larsen, J. C., 1992: **Transport and heat flux of the Florida Current at 27N derived from cross-stream voltages and profiling data: theory and observations**. *Philosophical Transactions of the Royal Society of London A*, **338**, 169-236.
- Larsen, J. C., and T. B. Sanford, 1985: **Florida Current volume transports from voltage measurements**. *Science*, **227**, 302-304.
- Meinen, C. S., M. O. Baringer, and R. F. Garcia, 2010: **Florida Current Transport Variability: An Analysis of Annual and Longer-Period Signals**, *Deep Sea Res. I*, **57** (7), 835-846, doi:10.1016/j.dsr.2010.04.001.
- Thurnherr, A. M., 2010: **A Practical Assessment of the Errors Associated with Full-Depth LADCP Profiles Obtained Using Teledyne RDI Workhorse Acoustic Doppler Current Profilers**. *J. Atmos. Oceanic Technol.*, **27**, 1215-1227, doi: 10.1175/2010JTECHO708.1.
- Visbeck, M., 2002: **Deep velocity profiling using lowered acoustic Doppler current profilers: Bottom track and inverse solutions**. *J. Atmos. Oceanic Technol.*, **19**, 794-807.

Appendix A:

Daily Florida Current transport data

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	32.8	30.3	34.2	31.0	31.5	31.2	34.9	38.9	NaN	34.5	NaN	34.8
2	31.3	31.1	34.2	33.5	31.9	30.8	35.1	38.8	NaN	33.4	NaN	35.6
3	30.8	32.2	33.5	33.2	32.3	30.7	35.5	38.6	NaN	33.2	NaN	34.7
4	30.3	33.3	32.9	30.7	33.3	31.2	36.4	35.9	NaN	32.7	NaN	34.3
5	29.5	33.9	32.3	29.3	33.1	32.1	37.3	34.5	NaN	32.1	NaN	35.1
6	29.7	32.8	31.1	28.9	32.3	32.1	37.5	34.9	NaN	30.6	NaN	35.6
7	29.1	31.2	28.6	29.3	32.0	31.3	38.1	36.1	NaN	29.9	NaN	34.4
8	27.9	28.6	28.1	28.5	32.1	30.0	38.0	36.2	35.9	31.2	NaN	32.2
9	27.9	30.2	29.3	29.2	30.9	27.9	36.6	36.1	37.1	29.4	25.0	30.0
10	28.7	32.6	30.1	28.9	31.1	27.4	35.4	36.5	39.9	24.9	27.6	28.3
11	29.2	30.7	30.9	NaN	32.0	28.1	35.2	36.9	38.9	20.9	25.3	29.6
12	29.6	28.4	32.3	NaN	32.4	28.6	34.9	36.7	36.9	20.6	26.4	33.0
13	30.5	27.9	33.0	27.4	32.9	29.7	34.6	36.3	36.5	23.7	24.1	35.0
14	31.0	28.3	34.1	26.8	33.3	30.0	35.2	36.4	36.9	22.0	24.0	35.1
15	31.2	30.4	34.3	23.9	32.5	29.0	36.2	36.7	35.5	23.2	24.5	34.6
16	32.3	31.9	32.6	24.9	31.6	28.6	36.9	37.3	34.0	24.7	25.4	33.4
17	32.6	NaN	31.3	20.8	33.1	28.4	36.9	38.0	33.0	24.8	27.2	33.7
18	29.0	NaN	30.3	19.8	35.6	27.5	36.7	38.2	33.8	24.4	27.7	35.0
19	26.6	NaN	29.1	20.4	36.6	26.1	35.8	38.5	35.5	24.0	27.3	34.8
20	27.6	26.5	27.4	22.5	36.5	26.1	35.9	38.2	36.7	23.6	26.9	33.1
21	28.3	28.6	25.2	24.1	37.4	27.3	36.2	38.1	35.7	23.1	26.9	31.6
22	29.9	29.0	24.4	26.2	38.1	29.2	36.0	38.2	34.9	23.8	28.2	30.7
23	31.8	31.2	26.6	27.5	37.3	31.8	35.5	37.2	34.9	25.1	29.7	30.2
24	30.2	31.4	30.0	27.1	35.6	33.0	36.1	34.4	35.8	26.4	31.4	30.3
25	28.7	31.1	32.4	26.6	33.9	33.0	37.4	32.9	36.4	NaN	31.5	32.6
26	28.2	30.7	32.5	28.3	33.0	33.7	37.5	32.5	36.0	24.9	30.5	34.1
27	28.3	31.3	31.6	30.5	32.6	34.0	37.8	32.2	35.5	28.4	29.0	34.5
28	28.8	32.5	31.2	31.3	31.8	33.7	38.5	32.1	35.8	28.8	29.2	34.9
29	28.7	33.4	31.2	31.0	30.8	33.4	38.3	32.5	36.0	28.2	31.7	33.7
30	29.2	–	29.9	31.0	30.4	33.8	38.3	33.9	35.6	27.9	33.6	32.0
31	30.5	–	29.3	–	30.9	–	38.8	34.0	–	28.7	–	31.7

Table 4: Florida Current daily transport estimated using voltage measurements on a telephone cable. Units are Sverdrups ($1 \text{ Sv} = 10^6 \text{ m}^3 \text{ s}^{-1}$). 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: 2016.07.15								
0	8:25:58	-79.9299	27.0057	8:35:14	-79.9298	27.0106	0.81	96.52
1	9:12:36	-79.8668	27.0053	9:29: 1	-79.8661	27.0154	5.55	112.24
2	10: 9:24	-79.7833	27.0006	10:34:36	-79.7830	27.0171	1.75	119.68
3	11:10: 8	-79.6834	27.0003	11:43:52	-79.6828	27.0229	3.00	122.67
4	12:35:56	-79.6168	27.0005	13:17:39	-79.6161	27.0252	2.87	108.94
5	14: 9: 0	-79.4999	27.0017	14:55:25	-79.4996	27.0246	1.89	90.21
6	15:34:26	-79.3834	27.0001	16:17: 6	-79.3836	27.0167	-0.53	71.27
7	17:14:41	-79.2835	27.0004	17:53: 6	-79.2849	27.0112	-5.60	51.32
8	18:11:17	-79.2001	27.0000	18:41:23	-79.2020	27.0060	-10.11	37.69
Cruise date: 2016.08.23								
0	7:40:40	-79.9299	27.0064	7:50:29	-79.9295	27.0129	5.05	121.23
1	8: 8:13	-79.8666	27.0050	8:24:43	-79.8658	27.0163	8.78	126.23
2	8:47:52	-79.7832	27.0075	9:14: 1	-79.7824	27.0242	5.83	117.25
3	9:41:42	-79.6834	27.0005	10:16:57	-79.6817	27.0223	7.37	113.58
4	10:36:29	-79.6168	27.0005	11:19:33	-79.6150	27.0238	7.62	100.41
5	11:43:58	-79.5001	27.0005	12:33:46	-79.4996	27.0204	1.44	73.60
6	15:15: 8	-79.3835	27.0000	15:57: 5	-79.3839	27.0137	-1.14	60.13
7	14:10:28	-79.2837	27.0002	14:50:47	-79.2842	27.0096	-1.89	43.24
8	13:18:34	-79.2001	27.0000	13:50: 7	-79.2019	27.0063	-9.49	37.38

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.

Appendix C:

XBT temperature profiles

Cruise date: 2016.04.26									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	25.69	25.51	26.99	27.38	NaN	NaN	NaN	NaN	NaN
10	25.47	25.17	27.10	27.35	NaN	NaN	NaN	NaN	NaN
20	25.37	25.11	27.05	27.32	NaN	NaN	NaN	NaN	NaN
30	24.75	25.07	26.91	27.30	NaN	NaN	NaN	NaN	NaN
40	23.84	24.61	26.30	27.29	NaN	NaN	NaN	NaN	NaN
50	23.06	23.87	25.77	27.29	NaN	NaN	NaN	NaN	NaN
60	22.48	23.18	25.13	27.02	NaN	NaN	NaN	NaN	NaN
70	21.67	22.74	24.70	26.43	NaN	NaN	NaN	NaN	NaN
80	20.95	21.87	23.95	25.94	NaN	NaN	NaN	NaN	NaN
90	20.75	21.26	23.51	25.49	NaN	NaN	NaN	NaN	NaN
100	20.22	20.43	22.94	25.18	NaN	NaN	NaN	NaN	NaN
110	19.43	19.77	21.91	24.23	NaN	NaN	NaN	NaN	NaN
120	18.29	18.70	21.20	23.45	NaN	NaN	NaN	NaN	NaN
130	17.07	17.86	20.34	22.70	NaN	NaN	NaN	NaN	NaN
140	–	16.55	18.84	21.46	NaN	NaN	NaN	NaN	NaN
150	–	15.73	16.70	20.14	NaN	NaN	NaN	NaN	NaN
160	–	15.12	15.40	19.32	NaN	NaN	NaN	NaN	NaN
170	–	14.19	14.94	18.71	NaN	NaN	NaN	NaN	NaN
180	–	13.12	14.60	18.00	NaN	NaN	NaN	NaN	NaN
190	–	12.32	14.44	17.40	NaN	NaN	NaN	NaN	NaN
200	–	11.72	14.27	16.78	NaN	NaN	NaN	NaN	NaN
210	–	11.36	13.96	16.19	NaN	NaN	NaN	NaN	NaN
220	–	11.10	13.43	15.47	NaN	NaN	NaN	NaN	NaN
230	–	10.94	12.93	14.49	NaN	NaN	NaN	NaN	NaN
240	–	10.77	12.49	13.79	NaN	NaN	NaN	NaN	NaN
250	–	10.45	12.34	13.48	NaN	NaN	NaN	NaN	NaN
260	–	9.97	12.23	13.27	NaN	NaN	NaN	NaN	NaN
270	–	–	11.85	13.06	NaN	NaN	NaN	NaN	NaN
280	–	–	11.43	12.76	NaN	NaN	NaN	NaN	NaN
290	–	–	10.89	12.44	NaN	NaN	NaN	NaN	NaN
300	–	–	10.67	12.32	NaN	NaN	NaN	NaN	NaN
350	–	–	9.55	11.09	NaN	NaN	NaN	NaN	NaN
400	–	–	–	9.99	NaN	NaN	NaN	NaN	NaN
450	–	–	–	9.23	NaN	NaN	NaN	NaN	NaN
500	–	–	–	8.55	NaN	NaN	NaN	NaN	–
550	–	–	–	–	NaN	NaN	NaN	NaN	–
600	–	–	–	–	NaN	NaN	NaN	NaN	–
650	–	–	–	–	NaN	NaN	NaN	–	–
700	–	–	–	–	–	NaN	NaN	–	–
750	–	–	–	–	–	NaN	–	–	–

Table 6: 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: 2016.07.15									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	29.64	29.67	29.68	30.15	30.03	31.47	31.01	30.58	30.61
10	29.61	29.78	29.62	29.65	29.70	29.70	29.77	29.73	29.69
20	29.61	29.77	29.64	29.67	29.61	29.69	29.63	29.61	29.59
30	28.99	29.75	29.46	29.24	29.55	29.62	29.47	29.56	29.58
40	28.49	29.52	28.88	28.93	28.92	29.16	28.83	29.62	29.47
50	25.91	28.63	28.45	28.86	28.66	28.94	28.25	29.51	29.10
60	23.85	27.52	28.09	28.62	28.72	28.59	28.21	29.12	28.96
70	21.81	26.18	27.23	28.37	28.48	28.29	27.95	28.30	28.95
80	18.19	24.39	26.59	27.30	28.13	27.57	27.79	27.35	27.42
90	14.93	21.01	26.09	26.25	26.73	27.13	27.18	26.87	26.30
100	14.53	18.81	24.53	25.78	25.99	26.56	26.80	26.61	25.86
110	14.18	17.14	22.25	24.76	25.29	26.12	26.43	26.23	24.84
120	13.94	16.63	19.86	23.48	23.94	25.69	25.58	25.23	24.34
130	13.42	15.26	19.00	22.25	22.69	25.10	24.97	24.55	23.92
140	–	14.57	18.51	21.73	22.31	24.36	24.49	24.04	23.57
150	–	14.42	18.31	20.39	21.74	23.54	23.77	23.50	23.21
160	–	14.32	17.64	19.27	21.18	22.69	23.12	22.90	22.74
170	–	14.15	16.96	18.85	19.92	21.82	22.74	22.28	22.31
180	–	13.89	16.61	18.38	19.11	21.21	21.81	21.78	22.18
190	–	13.52	16.05	17.86	18.95	20.95	20.80	21.26	21.78
200	–	13.16	15.68	17.63	18.63	20.38	20.54	20.80	21.51
210	–	12.36	15.07	17.16	17.87	19.24	19.79	20.06	21.11
220	–	11.61	14.81	16.78	17.37	18.69	19.61	19.81	20.79
230	–	11.36	14.30	16.61	16.93	18.20	19.19	19.62	20.65
240	–	11.02	14.02	15.96	16.62	18.06	18.77	19.44	20.46
250	–	10.79	13.83	15.33	16.40	17.91	18.61	19.12	20.17
260	–	9.73	13.68	14.95	16.22	17.52	18.51	19.00	19.75
270	–	–	13.42	14.63	15.82	17.19	18.29	18.88	19.46
280	–	–	12.71	14.39	15.72	17.12	18.13	18.55	19.27
290	–	–	12.32	14.28	15.54	16.62	17.98	18.46	19.16
300	–	–	11.82	14.05	15.18	16.43	17.86	18.45	19.04
350	–	–	10.11	12.86	13.79	15.11	16.62	17.62	18.06
400	–	–	–	11.23	12.32	13.95	14.82	16.83	17.55
450	–	–	–	8.66	10.63	12.05	13.13	14.98	16.29
500	–	–	–	NaN	9.10	10.60	11.86	13.89	–
550	–	–	–	–	8.30	9.80	10.85	12.75	–
600	–	–	–	–	7.57	8.78	10.27	11.59	–
650	–	–	–	–	6.47	7.75	9.07	–	–
700	–	–	–	–	–	7.30	NaN	–	–
750	–	–	–	–	–	6.94	–	–	–

Table 7: Same as Table 6 for the cruise on the indicated date.

Cruise date: 2016.08.23									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	NaN	30.10	30.01	29.93	30.43	30.47	30.55	30.59	30.83
10	NaN	30.10	29.87	29.79	29.87	30.01	30.04	30.36	30.51
20	NaN	29.54	29.54	29.61	29.60	29.64	29.83	29.96	30.08
30	NaN	29.42	29.33	29.43	29.37	29.53	29.69	29.86	29.89
40	NaN	28.68	29.16	29.17	29.27	29.42	29.26	29.76	29.56
50	NaN	27.57	28.74	28.67	29.02	29.15	28.50	29.23	28.79
60	NaN	25.60	27.31	28.26	28.60	28.78	28.21	28.19	27.84
70	NaN	23.90	26.35	27.33	28.05	28.20	27.15	27.50	27.37
80	NaN	22.20	25.12	26.62	27.39	27.37	26.60	26.93	27.23
90	NaN	21.44	23.95	25.33	26.70	26.81	26.50	26.80	26.85
100	NaN	20.69	22.51	24.20	25.64	26.37	26.29	26.44	26.31
110	NaN	19.80	21.07	23.53	25.02	25.81	25.65	25.58	25.70
120	NaN	18.27	20.44	21.29	23.58	25.17	25.35	24.89	25.64
130	NaN	17.29	20.07	21.50	23.57	24.71	24.49	24.17	25.23
140	-	16.44	19.18	20.63	22.25	23.86	23.71	24.12	24.56
150	-	15.52	18.66	20.13	21.44	23.08	22.89	23.84	23.97
160	-	14.47	18.11	19.71	20.64	22.38	22.58	23.01	23.44
170	-	13.18	17.73	19.38	19.93	21.54	21.17	22.45	22.75
180	-	11.74	17.41	18.99	19.33	20.25	20.87	21.79	22.08
190	-	10.97	16.88	18.59	18.98	19.96	20.70	21.61	21.85
200	-	10.86	16.49	18.13	18.62	19.64	20.60	21.21	21.46
210	-	10.08	16.12	17.86	18.34	19.45	20.29	20.92	21.11
220	-	9.06	15.63	17.52	18.10	19.06	19.94	20.80	20.55
230	-	8.68	15.27	17.25	17.84	18.82	19.61	20.55	20.23
240	-	8.63	14.94	16.96	17.45	18.44	19.40	20.30	20.14
250	-	8.50	14.72	16.59	17.19	18.11	19.19	19.92	19.86
260	-	8.43	14.03	16.44	17.04	17.86	18.94	19.74	19.63
270	-	-	12.89	16.17	16.79	17.61	18.89	19.62	19.22
280	-	-	12.56	15.77	16.54	17.37	18.70	19.48	19.07
290	-	-	12.04	15.63	16.18	17.14	18.59	19.37	19.03
300	-	-	11.30	15.43	15.93	16.68	18.40	19.23	18.92
350	-	-	9.04	13.70	14.28	15.95	17.18	17.63	18.20
400	-	-	-	12.60	12.85	14.19	16.16	16.85	17.76
450	-	-	-	10.18	11.56	12.79	14.51	15.77	17.02
500	-	-	-	8.60	10.29	11.48	13.72	14.70	-
550	-	-	-	-	9.05	10.77	12.69	13.72	-
600	-	-	-	-	8.13	10.13	11.79	13.07	-
650	-	-	-	-	7.55	9.42	11.14	-	-
700	-	-	-	-	-	8.59	NaN	-	-
750	-	-	-	-	-	7.65	-	-	-

Table 8: Same as Table 6 for the cruise on the indicated date.

Cruise date: 2016.09.27									
Depth	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8
0	29.02	29.59	29.47	29.65	30.02	30.08	29.85	30.03	30.01
10	29.62	29.69	29.62	29.90	29.95	29.87	29.70	29.90	29.92
20	29.74	29.68	29.62	29.90	29.93	29.82	29.69	29.87	29.87
30	29.51	29.78	29.62	29.77	29.73	29.82	29.68	29.87	29.86
40	28.90	29.14	29.28	29.48	29.54	29.75	29.67	29.87	29.82
50	28.37	29.02	29.18	29.16	29.12	29.46	29.46	29.86	29.79
60	27.19	28.24	28.83	28.92	28.54	29.13	28.96	29.63	29.34
70	24.95	27.41	28.54	28.61	28.08	28.48	28.59	29.56	28.92
80	23.49	27.14	27.54	27.98	27.56	27.92	28.28	28.78	28.71
90	22.00	26.55	26.18	27.45	26.98	27.40	27.83	28.11	28.44
100	18.52	24.88	25.59	26.87	26.62	27.07	27.35	27.92	27.87
110	16.33	22.44	25.38	26.33	26.06	26.81	27.00	27.27	27.62
120	14.74	19.12	24.94	25.40	25.46	26.56	26.62	26.95	27.28
130	13.59	17.35	24.48	25.05	24.91	26.09	26.30	26.83	26.88
140	–	16.71	23.70	24.53	24.47	25.54	25.95	26.47	26.06
150	–	14.75	20.36	23.86	24.02	25.09	25.39	25.93	25.55
160	–	13.34	18.84	22.44	23.25	24.45	24.49	25.24	25.20
170	–	12.42	17.34	21.58	22.41	24.03	23.93	24.74	24.61
180	–	10.91	16.85	20.81	21.65	23.10	23.63	24.14	24.27
190	–	10.85	16.44	20.26	21.09	22.68	23.02	23.68	23.66
200	–	10.48	15.38	19.73	20.47	21.85	22.36	23.38	23.02
210	–	9.98	14.15	18.99	19.90	21.35	21.74	22.78	22.32
220	–	9.39	13.51	18.36	19.39	20.64	21.26	22.10	21.76
230	–	8.88	12.90	17.60	18.87	20.21	20.76	21.63	21.45
240	–	8.85	12.09	17.10	18.32	19.70	20.09	21.14	20.86
250	–	8.75	11.37	16.44	17.71	19.25	19.77	20.67	20.24
260	–	8.69	10.86	15.98	17.32	18.95	19.08	20.32	20.12
270	–	–	10.63	15.75	17.05	18.64	18.78	19.97	19.72
280	–	–	9.84	15.09	16.49	18.27	18.69	19.61	19.50
290	–	–	9.60	14.62	15.95	18.01	18.59	19.29	19.31
300	–	–	9.17	14.36	15.56	17.72	18.51	18.96	19.12
350	–	–	8.19	12.12	13.79	16.26	17.04	18.10	18.10
400	–	–	–	10.73	12.39	14.20	14.99	16.71	17.19
450	–	–	–	9.85	10.36	11.98	13.51	14.89	15.71
500	–	–	–	8.46	9.51	10.91	12.29	13.78	–
550	–	–	–	–	8.86	10.06	10.55	12.93	–
600	–	–	–	–	7.38	9.86	10.17	12.22	–
650	–	–	–	–	6.83	9.29	9.68	–	–
700	–	–	–	–	–	8.92	9.85	–	–
750	–	–	–	–	–	7.88	–	–	–

Table 9: Same as Table 6 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: 2016.03.24								
0	9:52:35	-79.9287	26.9968	10: 3:16	-79.9316	27.0042	-7.92	93.17
1	9: 1:30	-79.8665	26.9954	9:18: 1	-79.8691	27.0074	-5.19	89.73
2	7:58:55	-79.7812	26.9894	8:19:44	-79.7885	27.0072	-5.94	87.29
3	6:41:50	-79.6813	26.9947	7: 8:35	-79.6879	27.0160	-5.45	79.85
4	5:28:43	-79.6165	26.9955	5:59:42	-79.6247	27.0175	-3.80	76.98
5	3:57:49	-79.4970	26.9935	4:33:23	-79.5054	27.0149	0.07	62.69
6	2:32: 6	-79.3796	26.9907	3: 5:22	-79.3884	27.0065	-2.46	65.91
7	0:54:22	-79.2849	26.9970	1:25:54	-79.2968	27.0076	-8.38	53.06
8	23:39:35	-79.2033	26.9982	0: 8:58	-79.2144	27.0006	-10.34	41.29
Cruise date: 2016.05.17								
0	8:15:17	-79.9291	26.9855	8:26:56	-79.9311	26.9932	2.88	51.72
1	7:11: 1	-79.8647	26.9901	7:29: 3	-79.8673	27.0088	-0.23	63.23
2	-	-	-	-	-	-	NaN	NaN
3	3:32:11	-79.6851	26.9914	4: 1:37	-79.6914	27.0221	-6.85	108.57
4	2:17:41	-79.6133	26.9947	2:47: 7	-79.6181	27.0118	-8.65	104.25
5	0:35:26	-79.4982	26.9920	1:11:56	-79.5105	27.0152	-6.40	85.80
6	23: 3:37	-79.3833	26.9971	23:37:41	-79.3930	27.0144	-6.77	61.96
7	21:50:53	-79.2847	26.9958	22:19:10	-79.2908	27.0041	-8.71	47.21
8	20:52:36	-79.2031	27.0006	21:15:15	-79.2077	27.0039	-11.87	36.49
Cruise date: 2016.07.14								
0	9: 1:52	-79.9306	26.9968	9:13:35	-79.9300	27.0042	10.03	65.85
1	7:50:28	-79.8651	26.9856	8: 8:52	-79.8653	27.0012	8.63	86.14
2	6:13:45	-79.7837	26.9860	6:37:18	-79.7835	27.0108	4.49	117.89
3	4:30:47	-79.6840	26.9897	4:59:12	-79.6853	27.0169	4.11	111.40
4	3: 3: 9	-79.6138	26.9857	3:35:60	-79.6144	27.0130	3.44	99.20
5	1:15:23	-79.4995	26.9894	1:52:56	-79.5043	27.0184	2.39	80.52
6	23:31: 8	-79.3837	26.9902	0: 7:55	-79.3864	27.0143	1.55	69.55
7	22: 2:44	-79.2829	26.9995	22:33:21	-79.2806	27.0141	-1.71	53.09
8	20:50: 5	-79.2008	26.9958	21:13:42	-79.2031	26.9993	-6.41	41.18

Table 10: 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: 2016.09.15								
0	1:35:16	-79.9323	26.9954	1:47: 4	-79.9332	27.0042	2.56	61.51
1	0:25:43	-79.8673	26.9890	0:43:45	-79.8680	27.0043	4.03	70.67
2	23: 2:36	-79.7826	26.9860	23:26:15	-79.7839	27.0099	4.48	111.13
3	21:28:11	-79.6837	26.9868	21:56:49	-79.6842	27.0144	5.93	123.24
4	20: 9:29	-79.6188	26.9885	20:39:43	-79.6183	27.0146	7.78	119.79
5	18:24:26	-79.5007	26.9913	19: 0:34	-79.4981	27.0164	2.03	88.31
6	16:39:31	-79.3861	26.9904	17:15:42	-79.3855	27.0121	-3.54	76.98
7	15:14:50	-79.2808	26.9878	15:44:40	-79.2815	27.0017	-10.76	68.27
8	14: 4:33	-79.2016	27.0024	14:29:59	-79.2037	27.0119	-15.27	47.76
Cruise date: 2016.12.13								
0	9:50:30	-79.9306	26.9935	10: 2: 5	-79.9314	27.0031	-0.67	122.38
1	8:49:35	-79.8672	26.9919	9: 6:54	-79.8680	27.0086	0.29	135.40
2	7:32:44	-79.7842	26.9869	7:56:40	-79.7850	27.0090	3.09	130.74
3	6:10:41	-79.6848	26.9818	6:38:16	-79.6875	27.0040	2.52	121.02
4	4:46:50	-79.6183	26.9930	5:19:23	-79.6197	27.0155	2.69	106.70
5	3: 7:59	-79.4992	26.9853	3:43:56	-79.4999	27.0049	-3.50	82.83
6	1:25:44	-79.3848	26.9944	1:59:22	-79.3836	27.0124	-4.38	63.46
7	0: 0:49	-79.2835	26.9956	0:32:54	-79.2884	27.0061	-6.26	44.20
8	22:35:36	-79.2027	26.9994	23: 2:17	-79.1952	27.0085	-11.01	37.73

Table 11: Same as Table 10 for LADCP data collected on the indicated dates.

Appendix E:

CTD and LADCP profiles

Cruise ID: fc1603. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.35	36.38	4.69	NaN	NaN
10	25.34	36.38	4.70	-8.6	123.4
20	25.34	36.38	4.69	-8.6	123.4
30	25.30	36.41	4.71	-9.7	121.8
40	24.45	36.45	4.80	-9.4	118.9
50	23.75	36.49	4.31	-7.2	114.4
60	23.07	36.45	4.65	-7.2	113.7
70	22.55	36.42	4.69	-9.1	113.6
80	21.74	36.39	4.64	-8.8	113.0
90	21.47	36.45	4.33	-7.4	108.3
100	20.41	36.40	4.01	-7.9	98.2
110	19.29	36.34	3.71	-7.5	61.7
120	18.41	36.31	3.42	-5.4	40.1
130	16.66	36.16	3.14	-5.5	29.5
140	NaN	NaN	NaN	-8.5	24.2

Table 12: 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: fc1603. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.35	36.38	4.72	NaN	NaN
10	25.35	36.38	4.71	-9.6	136.5
20	25.35	36.38	4.71	-12.6	139.1
30	25.35	36.38	4.72	-11.9	135.8
40	25.34	36.39	4.71	-11.4	132.8
50	24.35	36.45	4.77	-7.4	127.6
60	23.48	36.45	4.82	-6.4	123.1
70	23.11	36.51	4.45	-6.2	121.0
80	22.75	36.57	4.23	-6.5	117.6
90	21.72	36.38	4.79	-5.8	114.1
100	21.48	36.46	4.42	-6.4	112.0
110	21.00	36.51	4.17	-5.0	108.2
120	20.51	36.63	3.51	-7.8	105.4
130	20.06	36.66	3.34	-8.6	102.5
140	18.90	36.46	3.36	-8.1	98.0
150	18.13	36.42	3.22	-6.8	94.8
160	17.07	36.26	3.17	-5.6	86.6
170	16.24	36.13	3.10	-6.0	74.9
180	15.43	36.02	3.09	-5.4	66.4
190	15.04	35.98	3.10	-1.9	55.5
200	14.46	35.88	3.06	-2.8	47.9
210	13.91	35.79	3.01	-2.2	41.1
220	12.50	35.57	2.89	2.6	35.8
230	11.98	35.50	2.85	4.0	27.4
240	11.30	35.40	2.80	4.7	23.1
250	NaN	NaN	NaN	3.3	16.0

Table 13: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.69	36.30	4.65	NaN	NaN
10	25.70	36.30	4.65	-16.0	154.5
20	25.71	36.30	4.66	-15.9	154.5
30	25.71	36.30	4.66	-17.1	150.2
40	25.67	36.35	4.65	-17.6	147.4
50	25.03	36.40	4.60	-14.2	145.1
60	24.64	36.48	4.55	-10.6	142.8
70	23.90	36.49	4.65	-8.7	137.3
80	23.28	36.49	4.49	-8.0	129.3
90	22.88	36.58	4.34	-6.1	122.7
100	22.60	36.73	3.90	-5.3	119.2
110	21.51	36.48	4.60	-7.0	116.9
120	21.26	36.48	4.37	-7.7	116.2
130	20.70	36.52	3.97	-6.7	112.8
140	20.46	36.62	3.47	-6.9	106.9
150	19.86	36.63	3.28	-7.3	101.2
160	19.18	36.60	3.32	-6.0	96.5
170	18.69	36.52	3.27	-5.4	96.8
180	18.22	36.45	3.16	-2.5	98.9
190	17.48	36.36	3.26	4.0	96.2
200	17.23	36.33	3.25	3.9	91.1
210	16.84	36.26	3.28	2.6	84.7
220	16.16	36.16	3.27	0.6	78.9
230	15.94	36.13	3.23	-1.7	78.4
240	15.54	36.06	3.19	-3.3	77.9
250	14.85	35.95	3.13	-4.5	75.5
260	13.92	35.80	3.05	-4.8	68.4
270	13.43	35.72	3.00	-4.8	60.7
280	12.84	35.63	2.95	-6.7	55.9
290	12.18	35.53	2.91	-8.0	53.4
300	11.63	35.45	2.88	-7.7	48.8
350	8.68	35.05	2.77	-2.7	19.2

Table 14: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.90	36.26	4.63	NaN	NaN
10	25.92	36.26	4.64	-7.6	157.2
20	25.91	36.26	4.64	-10.5	155.0
30	25.91	36.26	4.63	-11.9	152.1
40	25.91	36.26	4.64	-13.1	148.8
50	25.91	36.26	4.64	-12.8	148.3
60	25.92	36.26	4.64	-12.2	147.3
70	25.91	36.27	4.64	-13.1	146.2
80	25.55	36.42	4.46	-13.1	140.5
90	24.63	36.42	4.52	-10.3	136.1
100	23.89	36.57	4.38	-3.8	127.7
110	22.89	36.50	4.31	-3.4	114.0
120	22.07	36.53	4.39	-6.8	106.0
130	21.49	36.44	4.76	-7.0	102.9
140	21.30	36.44	4.58	-4.8	101.2
150	21.52	36.77	3.67	-2.3	98.6
160	20.58	36.68	3.49	-4.1	94.8
170	19.82	36.64	3.30	-5.2	93.2
180	19.18	36.57	3.23	-9.6	93.7
190	18.43	36.47	3.19	-13.6	94.5
200	18.03	36.44	3.20	-13.1	94.3
210	17.61	36.38	3.23	-10.4	90.7
220	17.11	36.31	3.27	-5.5	85.5
230	16.92	36.28	3.28	-3.9	80.2
240	16.50	36.22	3.34	-2.2	75.3
250	15.85	36.10	3.16	-1.2	72.1
260	15.26	36.02	3.24	-1.7	70.4
270	14.94	35.96	3.21	-4.0	69.8
280	14.70	35.92	3.20	-6.1	70.2
290	14.41	35.87	3.17	-6.0	70.8
300	14.13	35.82	3.12	-3.3	72.6
350	12.52	35.56	2.89	0.8	67.0
400	10.94	35.34	2.80	-2.3	48.2
450	10.10	35.25	2.82	-8.2	38.6
500	7.66	34.96	2.89	-6.9	19.6

Table 15: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.01	36.26	4.64	NaN	NaN
10	26.01	36.26	4.63	-4.9	146.2
20	26.01	36.26	4.63	-4.9	146.2
30	26.01	36.26	4.64	-4.9	144.9
40	26.02	36.26	4.62	-5.5	142.4
50	26.04	36.28	4.63	-6.7	144.4
60	26.05	36.29	4.61	-5.7	145.8
70	26.05	36.30	4.59	-5.1	142.0
80	25.88	36.37	4.49	-7.0	137.3
90	25.65	36.38	4.49	-9.9	134.8
100	25.18	36.40	4.49	-8.3	131.8
110	24.94	36.73	3.87	-4.4	128.3
120	24.17	36.77	3.79	-2.7	116.0
130	23.15	36.70	3.93	-2.2	104.7
140	22.62	36.78	3.90	-4.3	97.4
150	22.43	36.91	3.65	-6.2	95.2
160	22.03	36.90	3.69	-4.6	93.1
170	21.17	36.78	3.57	-4.0	88.1
180	19.97	36.63	3.36	-7.5	86.5
190	19.40	36.59	3.23	-13.3	88.0
200	18.77	36.52	3.20	-14.4	92.7
210	18.46	36.48	3.18	-8.3	96.2
220	17.66	36.38	3.15	-3.2	90.9
230	17.26	36.33	3.28	-2.5	85.8
240	16.93	36.29	3.35	-3.0	85.4
250	16.35	36.19	3.22	-3.2	83.7
260	15.87	36.11	3.22	-2.9	81.3
270	15.58	36.07	3.28	-3.0	80.0
280	15.24	36.01	3.24	-2.4	79.5
290	15.02	35.97	3.21	-1.1	78.6
300	14.80	35.94	3.16	2.1	78.6
350	13.04	35.65	2.97	1.2	64.2
400	11.94	35.47	2.80	-2.2	57.3
450	10.64	35.28	2.71	-8.0	44.6
500	9.86	35.17	2.75	-10.7	51.8
550	8.26	35.00	2.78	8.0	41.8
600	7.75	34.97	2.90	-8.2	23.6

Table 16: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.80	36.31	4.63	NaN	NaN
10	25.81	36.30	4.64	2.3	116.0
20	25.81	36.30	4.63	4.3	116.6
30	25.81	36.30	4.63	5.0	115.8
40	25.81	36.30	4.64	5.0	114.5
50	25.82	36.30	4.64	4.7	114.2
60	25.82	36.30	4.64	4.2	114.3
70	25.83	36.30	4.64	4.0	113.7
80	25.83	36.30	4.64	3.7	112.9
90	25.83	36.30	4.64	3.9	113.5
100	25.83	36.30	4.65	4.7	114.5
110	25.58	36.46	4.19	5.6	114.1
120	24.99	36.75	3.78	8.9	111.7
130	23.41	36.52	4.13	9.1	107.9
140	23.53	36.86	3.66	4.8	106.6
150	23.04	36.90	3.66	3.4	104.1
160	22.71	36.89	3.68	3.5	100.1
170	21.95	36.79	3.68	1.2	96.0
180	20.90	36.61	3.66	0.2	97.2
190	20.59	36.72	3.47	-0.8	100.1
200	20.15	36.67	3.42	3.5	99.8
210	19.61	36.60	3.27	4.9	96.8
220	18.84	36.50	3.09	1.5	93.0
230	18.49	36.48	3.15	-2.8	91.8
240	18.06	36.42	3.11	-6.2	91.9
250	17.81	36.41	3.24	-7.2	90.8
260	17.53	36.39	3.40	-6.5	90.1
270	17.33	36.36	3.40	-5.7	88.3
280	16.90	36.29	3.39	-0.4	84.2
290	16.54	36.23	3.36	1.9	79.7
300	16.19	36.17	3.35	2.7	73.6
350	14.77	35.93	3.21	-4.7	73.0
400	13.24	35.68	2.98	-5.0	55.7
450	11.70	35.44	2.78	-1.1	44.0
500	10.54	35.27	2.73	-1.4	39.2
550	9.52	35.13	2.73	1.6	25.0
600	8.47	35.02	2.80	-5.0	17.1
650	7.58	34.96	2.94	0.3	23.0
700	6.76	34.92	3.13	0.8	13.7
750	6.39	34.92	3.31	0.0	11.6

Table 17: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.75	36.31	4.65	NaN	NaN
10	25.76	36.31	4.65	6.3	85.9
20	25.76	36.31	4.65	6.3	85.9
30	25.76	36.31	4.65	7.7	87.3
40	25.76	36.31	4.65	5.8	84.1
50	25.72	36.30	4.64	3.8	85.4
60	25.71	36.30	4.64	2.3	86.2
70	25.70	36.30	4.63	0.6	87.8
80	25.68	36.30	4.62	-1.7	89.2
90	25.67	36.30	4.62	-3.0	91.6
100	25.67	36.30	4.61	-2.7	93.5
110	25.64	36.35	4.52	0.8	96.2
120	25.05	36.69	3.90	3.7	94.1
130	24.35	36.82	3.73	4.7	86.7
140	23.73	36.84	3.73	8.2	83.4
150	22.54	36.78	4.11	13.5	89.0
160	21.75	36.62	4.27	10.6	89.7
170	21.52	36.65	4.10	2.9	91.0
180	21.29	36.61	4.21	1.8	94.8
190	21.13	36.69	3.91	3.6	97.7
200	20.77	36.77	3.63	-0.3	96.8
210	20.21	36.71	3.43	-3.0	95.7
220	20.14	36.73	3.51	-4.6	97.9
230	19.66	36.69	3.98	-3.9	96.9
240	19.15	36.65	4.07	-3.3	93.8
250	18.82	36.61	3.90	-1.3	90.8
260	18.60	36.59	3.97	-2.6	89.3
270	18.13	36.53	3.92	-5.8	87.4
280	17.97	36.51	4.01	-6.2	86.7
290	17.98	36.52	4.07	-4.5	85.1
300	17.77	36.48	4.06	-0.4	84.3
350	16.97	36.35	3.87	-4.4	76.6
400	15.35	36.07	3.60	-10.7	61.1
450	14.25	35.89	3.39	-6.7	56.9
500	13.19	35.71	3.23	-2.1	45.3
550	11.23	35.37	2.83	-1.8	32.8
600	9.86	35.18	2.72	-1.4	24.7
650	9.10	35.10	2.78	-10.7	25.2

Table 18: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.64	36.36	4.68	NaN	NaN
10	25.65	36.36	4.67	2.7	59.0
20	25.66	36.36	4.67	1.0	62.2
30	25.66	36.36	4.68	2.5	61.9
40	25.66	36.36	4.68	1.7	60.7
50	25.66	36.36	4.67	1.5	61.3
60	25.66	36.36	4.67	0.8	62.5
70	25.65	36.36	4.67	0.2	64.2
80	25.66	36.36	4.67	-0.2	64.7
90	25.66	36.36	4.68	-0.6	65.5
100	25.67	36.36	4.68	-0.1	65.7
110	25.62	36.37	4.65	-1.1	65.4
120	25.37	36.54	4.24	-3.4	62.9
130	24.39	36.70	4.11	-3.3	60.6
140	24.33	36.72	4.07	0.5	63.9
150	22.26	36.68	4.19	1.8	71.4
160	21.42	36.66	4.24	3.4	74.5
170	21.29	36.80	3.65	5.6	75.3
180	21.26	36.82	4.00	4.6	76.1
190	21.23	36.82	3.99	0.3	74.8
200	21.12	36.81	4.02	-7.7	71.2
210	21.04	36.81	4.01	-16.0	68.4
220	20.34	36.69	3.96	-19.9	70.9
230	19.85	36.64	4.32	-13.9	73.4
240	19.62	36.63	4.42	-8.1	73.3
250	19.42	36.64	4.32	-9.1	71.2
260	19.09	36.62	4.21	-10.6	67.7
270	18.85	36.61	4.23	-13.1	62.8
280	18.59	36.59	4.26	-15.0	60.5
290	18.40	36.57	4.28	-16.0	57.8
300	18.31	36.57	4.29	-15.3	55.8
350	17.48	36.44	4.19	-12.9	55.4
400	16.43	36.27	4.04	-9.4	52.8
450	15.34	36.08	3.84	-7.6	40.9
500	13.67	35.79	3.29	-13.8	31.1
550	13.03	35.71	3.46	-14.2	28.3
600	11.73	35.53	3.30	-14.4	25.5

Table 19: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1603. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	25.73	36.31	4.66	NaN	NaN
10	25.74	36.31	4.65	-14.7	36.7
20	25.72	36.31	4.65	-12.1	35.4
30	25.68	36.31	4.65	-7.2	34.3
40	25.67	36.31	4.65	-4.3	31.1
50	25.66	36.31	4.64	-0.3	31.2
60	25.67	36.32	4.64	3.6	31.6
70	25.68	36.34	4.62	7.6	32.1
80	25.67	36.35	4.63	11.1	33.1
90	25.68	36.35	4.64	10.8	31.2
100	25.41	36.50	4.38	3.8	26.8
110	25.45	36.52	4.26	-3.7	26.8
120	24.80	36.73	3.86	-4.5	30.7
130	23.79	36.76	3.85	-9.9	33.3
140	23.47	36.76	3.89	-8.7	35.7
150	22.51	36.80	4.00	-8.7	39.0
160	22.26	36.84	4.11	-10.6	43.0
170	21.81	36.78	4.16	-11.6	47.8
180	21.39	36.79	4.01	-8.2	51.4
190	21.10	36.79	3.96	-3.3	52.7
200	21.05	36.80	3.97	-3.0	52.5
210	20.96	36.80	4.00	-4.2	52.5
220	20.94	36.80	3.99	-6.6	50.4
230	20.18	36.74	3.95	-10.0	47.0
240	19.53	36.69	4.03	-15.8	45.4
250	19.46	36.69	4.05	-20.7	43.7
260	19.17	36.65	4.05	-22.7	43.3
270	19.05	36.65	4.03	-22.0	43.2
280	18.86	36.63	4.05	-21.9	43.3
290	18.79	36.62	4.04	-21.4	44.5
300	18.73	36.61	4.02	-19.5	45.7
350	17.86	36.51	4.29	-16.4	47.6
400	16.82	36.33	4.14	-14.8	47.2
450	15.63	36.13	3.90	-8.4	41.4

Table 20: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.84	36.46	4.62	NaN	NaN
10	26.85	36.46	4.61	-0.5	99.7
20	26.29	36.42	4.64	-0.4	99.7
30	25.26	36.40	4.71	-0.3	99.3
40	24.16	36.38	4.75	0.0	98.6
50	23.16	36.37	4.57	0.4	97.7
60	21.29	36.32	4.30	6.5	78.5
70	18.54	36.11	3.88	7.5	61.8
80	17.21	36.12	3.50	7.0	45.0
90	16.35	36.08	3.30	6.2	31.1
100	14.47	35.86	3.12	2.9	24.9
110	13.93	35.79	3.08	-3.5	12.7
120	13.06	35.65	3.00	0.8	11.7
130	12.47	35.56	2.93	3.4	9.3
140	11.64	35.44	2.90	5.8	6.0
150	NaN	NaN	NaN	7.4	-0.3

Table 21: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.91	36.39	4.55	NaN	NaN
10	27.91	36.39	4.55	-6.5	204.7
20	27.83	36.39	4.55	-6.5	204.7
30	26.65	36.44	4.63	-6.5	204.7
40	26.29	36.44	4.65	-6.5	204.4
50	25.71	36.35	4.69	-6.5	204.0
60	25.24	36.37	4.68	-9.6	171.4
70	24.07	36.36	4.52	-5.4	139.9
80	21.91	36.35	4.40	4.3	107.5
90	20.50	36.31	4.20	6.5	76.3
100	16.88	36.08	3.57	3.0	49.1
110	15.81	36.07	3.27	1.2	38.5
120	15.33	36.02	3.23	2.2	33.2
130	14.95	35.95	3.18	1.4	28.7
140	13.87	35.79	3.13	2.4	23.7
150	13.15	35.68	3.05	3.2	15.6
160	12.41	35.56	2.97	5.0	13.9
170	11.76	35.45	2.90	6.3	7.7
180	11.04	35.34	2.80	4.2	1.0
190	10.97	35.33	2.79	1.1	-4.0
200	10.61	35.27	2.77	0.9	-8.5
210	10.43	35.25	2.76	1.4	-10.1
220	10.28	35.25	2.78	0.6	-9.3
230	9.92	35.21	2.81	-2.7	-8.9
240	9.61	35.17	2.81	-3.4	-12.7
250	9.11	35.10	2.81	-0.3	-11.6
260	8.81	35.07	2.80	4.4	-19.9

Table 22: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.97	36.37	4.55	NaN	NaN
10	27.98	36.37	4.56	NaN	NaN
20	27.98	36.37	4.56	NaN	NaN
30	27.87	36.35	4.56	NaN	NaN
40	27.80	36.37	4.55	NaN	NaN
50	27.37	36.31	4.59	NaN	NaN
60	27.01	36.33	4.55	NaN	NaN
70	26.60	36.42	4.52	NaN	NaN
80	25.86	36.44	4.40	NaN	NaN
90	25.53	36.41	4.59	NaN	NaN
100	25.16	36.43	4.44	NaN	NaN
110	23.35	36.31	4.51	NaN	NaN
120	21.52	36.27	4.38	NaN	NaN
130	19.00	36.11	4.04	NaN	NaN
140	17.58	36.05	3.77	NaN	NaN
150	16.19	36.01	3.45	NaN	NaN
160	15.29	35.98	3.27	NaN	NaN
170	14.39	35.86	3.14	NaN	NaN
180	14.06	35.82	3.09	NaN	NaN
190	13.57	35.75	3.07	NaN	NaN
200	12.75	35.63	3.03	NaN	NaN
210	12.28	35.56	2.99	NaN	NaN
220	11.62	35.47	2.96	NaN	NaN
230	11.02	35.38	2.94	NaN	NaN
240	10.57	35.32	2.90	NaN	NaN
250	10.37	35.29	2.90	NaN	NaN
260	9.31	35.13	2.84	NaN	NaN
270	9.18	35.11	2.81	NaN	NaN
280	9.02	35.09	2.82	NaN	NaN
290	8.78	35.06	2.82	NaN	NaN
300	8.60	35.04	2.81	NaN	NaN
350	7.92	34.97	2.85	NaN	NaN

Table 23: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.79	36.36	4.56	NaN	NaN
10	27.80	36.35	4.56	-4.6	193.2
20	27.75	36.35	4.57	-8.1	194.0
30	27.61	36.33	4.57	-8.4	195.4
40	27.42	36.32	4.59	-6.5	196.3
50	27.28	36.30	4.58	-4.8	195.5
60	27.31	36.35	4.58	-6.1	191.5
70	27.03	36.32	4.57	-9.6	189.7
80	26.77	36.33	4.61	-10.4	191.6
90	26.51	36.32	4.58	-9.9	192.2
100	26.45	36.37	4.44	-7.8	190.5
110	26.48	36.57	4.32	-8.7	189.5
120	26.15	36.61	4.12	-12.5	189.1
130	25.23	36.69	3.93	-14.0	186.1
140	23.73	36.75	3.76	-16.6	176.4
150	21.38	36.57	3.69	-17.9	169.4
160	19.89	36.35	3.61	-13.3	165.5
170	18.04	36.21	3.52	-13.1	160.1
180	17.98	36.33	3.48	-15.6	152.4
190	17.92	36.36	3.41	-15.8	144.3
200	17.39	36.36	3.35	-13.1	137.5
210	16.83	36.28	3.37	-11.8	132.4
220	16.51	36.23	3.42	-10.7	128.5
230	16.29	36.19	3.41	-9.4	124.0
240	15.42	36.05	3.35	-6.6	115.9
250	14.83	35.92	3.26	-7.0	107.0
260	14.01	35.77	3.15	-10.3	98.5
270	13.57	35.71	3.06	-14.2	95.9
280	12.93	35.62	3.01	-12.3	98.3
290	12.42	35.56	2.97	-12.7	93.7
300	11.88	35.49	2.96	-9.6	91.9
350	10.12	35.26	2.90	-0.3	63.7
400	8.14	35.02	2.94	0.1	40.7
450	7.18	34.92	2.99	-1.3	25.9
500	6.77	34.92	3.12	-6.1	26.3

Table 24: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.78	36.27	4.55	NaN	NaN
10	27.82	36.34	4.55	-5.1	166.4
20	27.66	36.34	4.57	-3.1	164.7
30	27.54	36.32	4.58	-4.7	164.5
40	27.45	36.31	4.58	-5.2	164.8
50	27.34	36.30	4.60	-7.9	164.4
60	27.34	36.31	4.59	-11.0	163.4
70	27.27	36.30	4.58	-12.2	164.4
80	26.78	36.32	4.51	-12.4	165.3
90	26.52	36.36	4.39	-10.5	165.1
100	26.36	36.42	4.30	-7.7	162.8
110	26.06	36.53	4.11	-5.8	160.2
120	25.60	36.57	4.03	-7.8	158.3
130	25.26	36.71	3.87	-13.2	159.7
140	24.66	36.81	3.78	-14.7	161.9
150	24.06	36.84	3.71	-14.3	161.2
160	23.26	36.88	3.65	-13.0	158.6
170	22.49	36.76	3.65	-17.1	152.9
180	20.25	36.52	3.85	-24.5	148.5
190	19.43	36.62	3.49	-23.2	147.1
200	18.74	36.55	3.46	-17.7	145.0
210	18.16	36.48	3.47	-13.1	142.0
220	17.74	36.41	3.45	-10.8	135.0
230	17.59	36.41	3.47	-11.5	130.2
240	17.24	36.34	3.46	-9.6	130.7
250	17.03	36.31	3.44	-6.0	129.2
260	16.64	36.25	3.45	-4.3	122.3
270	16.51	36.23	3.46	-6.2	117.0
280	16.17	36.17	3.43	-10.2	116.3
290	15.75	36.10	3.37	-14.5	114.1
300	15.59	36.07	3.34	-16.8	112.3
350	13.09	35.65	3.07	-19.7	113.1
400	10.11	35.21	2.82	-13.3	83.9
450	9.07	35.11	2.86	-17.2	75.8
500	7.52	34.94	2.95	11.7	50.8
550	6.97	34.91	3.06	2.9	34.2
600	6.75	34.92	3.17	-4.2	32.0

Table 25: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.95	36.37	4.55	NaN	NaN
10	27.72	36.35	4.57	-8.6	131.7
20	27.49	36.34	4.60	-9.0	133.3
30	27.44	36.34	4.60	-9.0	133.4
40	27.38	36.33	4.59	-8.0	132.1
50	27.23	36.31	4.58	-7.9	132.0
60	26.95	36.28	4.53	-8.7	131.3
70	26.71	36.30	4.46	-10.6	130.0
80	26.56	36.34	4.39	-12.5	128.4
90	26.47	36.37	4.33	-11.0	127.7
100	26.37	36.45	4.21	-9.6	128.5
110	26.29	36.48	4.14	-8.0	129.9
120	25.87	36.61	4.00	-4.5	131.9
130	25.46	36.71	3.88	-2.5	132.2
140	24.65	36.81	3.80	-8.1	130.2
150	24.00	36.85	3.71	-15.1	130.4
160	23.75	36.87	3.67	-16.0	132.8
170	23.26	36.89	3.63	-10.2	134.0
180	22.20	36.90	3.52	-6.6	131.4
190	21.41	36.85	3.42	-7.1	125.0
200	20.69	36.79	3.42	-8.8	118.5
210	20.23	36.75	3.42	-10.4	113.4
220	19.51	36.67	3.45	-13.4	109.1
230	18.72	36.57	3.49	-15.4	107.3
240	18.50	36.55	3.51	-13.9	106.5
250	18.16	36.50	3.52	-10.8	105.2
260	17.97	36.47	3.53	-7.9	105.0
270	17.61	36.41	3.52	-4.1	105.6
280	17.13	36.33	3.50	-2.7	105.5
290	16.68	36.25	3.43	-0.8	101.2
300	16.54	36.23	3.42	-0.4	96.4
350	14.08	35.81	3.16	-1.8	96.5
400	12.20	35.51	2.96	-0.5	83.9
450	10.82	35.30	2.80	-7.0	72.2
500	9.41	35.12	2.77	-8.8	63.4
550	9.00	35.07	2.79	-10.5	57.2
600	8.12	34.98	2.83	-16.3	44.0
650	7.72	34.95	2.89	1.5	41.7
700	7.30	34.93	2.99	8.4	36.3
750	7.20	34.92	3.02	-5.9	34.9

Table 26: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.84	36.34	4.56	NaN	NaN
10	27.64	36.32	4.57	-6.0	100.8
20	27.55	36.32	4.58	-5.9	100.9
30	27.50	36.32	4.58	-8.0	100.2
40	27.46	36.32	4.58	-7.0	99.5
50	27.32	36.30	4.58	-7.8	96.5
60	27.19	36.30	4.56	-9.9	93.6
70	26.85	36.27	4.50	-9.9	92.8
80	26.83	36.29	4.46	-7.4	90.9
90	26.78	36.31	4.46	-3.2	89.2
100	26.41	36.39	4.32	-2.6	89.8
110	26.19	36.41	4.30	-9.5	89.3
120	25.82	36.60	4.01	-13.1	88.6
130	25.52	36.68	3.85	-8.2	87.5
140	25.18	36.74	3.78	-5.2	86.3
150	24.65	36.80	3.73	-9.2	89.5
160	23.56	36.85	3.81	-15.7	93.6
170	22.71	36.74	4.15	-19.2	94.2
180	21.93	36.68	4.56	-19.0	96.8
190	21.53	36.70	4.47	-15.8	101.5
200	20.91	36.78	4.08	-15.1	104.4
210	20.52	36.76	3.84	-16.0	103.1
220	20.18	36.74	3.69	-16.7	101.7
230	20.08	36.73	3.52	-17.7	100.5
240	20.01	36.72	3.53	-18.5	97.9
250	19.55	36.67	3.63	-13.0	94.3
260	19.04	36.61	3.70	-13.1	95.7
270	18.82	36.59	3.65	-13.1	92.0
280	18.14	36.49	3.59	-11.2	83.7
290	17.77	36.44	3.56	-13.1	77.3
300	17.55	36.41	3.57	-12.7	73.6
350	15.62	36.08	3.36	-0.3	64.0
400	14.10	35.81	3.12	-6.6	51.6
450	12.77	35.60	2.96	-4.5	53.1
500	11.80	35.46	2.92	6.1	42.0
550	10.21	35.22	2.78	0.8	21.6
600	9.86	35.17	2.77	-0.7	14.9
650	9.37	35.11	2.77	-12.9	5.1

Table 27: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.76	36.33	4.57	NaN	NaN
10	27.67	36.33	4.58	-8.1	51.3
20	27.61	36.33	4.59	-6.5	51.2
30	27.56	36.33	4.58	-8.9	49.8
40	27.43	36.31	4.58	-8.3	49.7
50	27.29	36.34	4.59	-7.4	51.1
60	27.24	36.34	4.60	-9.0	53.5
70	27.17	36.36	4.59	-7.5	56.5
80	26.69	36.36	4.59	-3.2	59.3
90	26.46	36.34	4.49	-4.1	58.0
100	26.09	36.37	4.51	-5.0	55.6
110	25.98	36.37	4.44	-4.7	55.1
120	25.78	36.45	4.39	-4.7	53.7
130	25.58	36.52	4.22	-7.3	56.4
140	24.95	36.62	4.25	-11.8	67.5
150	24.39	36.71	4.15	-14.7	74.7
160	23.16	36.75	4.31	-12.3	72.8
170	22.26	36.79	4.13	-16.2	72.7
180	21.83	36.85	3.84	-22.6	72.2
190	21.54	36.84	3.57	-22.1	72.6
200	21.10	36.81	3.53	-20.7	75.7
210	20.77	36.78	3.61	-24.7	75.3
220	20.40	36.75	3.66	-29.7	71.1
230	20.10	36.72	3.65	-27.9	69.1
240	19.93	36.71	3.64	-24.4	66.8
250	19.53	36.66	3.54	-20.8	64.9
260	19.38	36.65	3.55	-14.5	65.4
270	19.24	36.64	3.61	-7.5	66.7
280	19.17	36.63	3.64	-3.9	67.8
290	19.02	36.61	3.64	-4.4	67.5
300	19.02	36.62	3.67	-8.3	65.3
350	17.58	36.45	3.84	-12.6	61.4
400	15.53	36.07	3.52	-9.4	45.3
450	14.68	35.93	3.31	-6.6	37.7
500	13.16	35.68	3.09	-0.1	22.7
550	12.17	35.52	2.97	2.9	4.0
600	10.68	35.29	2.82	2.1	-5.5

Table 28: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1605. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.64	36.33	4.58	NaN	NaN
10	27.58	36.33	4.59	-1.3	15.9
20	27.49	36.32	4.58	-3.1	16.4
30	27.36	36.32	4.58	-2.7	16.0
40	27.31	36.33	4.60	-1.5	15.2
50	27.27	36.34	4.59	-1.3	15.6
60	27.21	36.35	4.61	-1.2	17.2
70	26.61	36.36	4.50	-0.2	22.4
80	26.26	36.36	4.51	-4.2	23.0
90	26.24	36.36	4.54	-5.6	21.1
100	26.22	36.36	4.54	-3.0	20.9
110	26.01	36.40	4.51	-2.1	22.9
120	25.67	36.46	4.30	-8.4	24.6
130	25.51	36.52	4.23	-12.1	28.3
140	25.36	36.57	4.16	-12.4	35.8
150	23.83	36.70	4.15	-17.1	46.7
160	22.46	36.70	4.33	-18.0	50.5
170	22.04	36.73	4.24	-19.8	48.3
180	21.85	36.80	4.13	-21.7	44.8
190	21.80	36.85	3.74	-20.4	43.7
200	21.32	36.79	3.82	-17.9	45.7
210	21.07	36.81	3.77	-17.8	44.2
220	20.57	36.77	3.78	-19.5	43.5
230	20.26	36.74	3.62	-16.9	40.9
240	19.93	36.71	3.55	-16.9	39.3
250	19.81	36.70	3.57	-17.1	40.7
260	19.52	36.65	3.94	-16.7	42.9
270	19.35	36.64	4.00	-14.7	43.2
280	19.18	36.63	4.09	-13.2	44.0
290	18.92	36.60	4.26	-14.0	45.1
300	18.74	36.59	4.26	-14.6	44.8
350	18.00	36.53	4.25	-13.5	45.5
400	17.32	36.42	4.20	-15.6	50.5
450	15.88	36.17	3.97	-9.3	30.5

Table 29: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.14	36.24	4.45	NaN	NaN
10	30.13	36.25	4.44	10.9	144.9
20	29.29	36.25	4.60	9.4	143.7
30	28.09	36.27	4.66	8.5	137.5
40	27.45	36.21	4.72	7.8	124.7
50	24.73	36.44	4.55	9.2	105.6
60	20.52	36.31	3.99	13.4	84.6
70	17.64	36.19	3.54	18.7	64.9
80	15.76	36.07	3.32	18.2	54.2
90	14.50	35.90	3.24	14.7	41.0
100	13.70	35.77	3.19	10.5	29.9
110	13.19	35.69	3.15	5.5	13.9
120	12.55	35.57	3.13	3.6	1.8
130	11.92	35.49	3.07	3.4	-8.7
140	11.53	35.44	3.03	6.6	-16.1

Table 30: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.04	36.46	4.43	NaN	NaN
10	30.01	36.47	4.46	15.5	180.9
20	29.93	36.49	4.45	14.4	183.1
30	29.11	36.45	4.56	10.1	182.0
40	27.48	36.47	4.67	11.9	180.8
50	26.60	36.50	4.59	10.4	176.6
60	25.19	36.54	4.62	4.0	168.5
70	22.78	36.36	4.21	2.4	153.6
80	18.99	36.23	3.69	6.0	129.2
90	17.21	36.10	3.52	12.7	104.3
100	15.48	35.99	3.30	13.6	84.1
110	14.86	35.94	3.25	12.5	76.5
120	14.36	35.86	3.19	10.7	73.7
130	13.75	35.77	3.13	11.4	70.9
140	13.34	35.71	3.10	10.9	67.7
150	13.06	35.66	3.07	10.6	63.1
160	12.83	35.63	3.07	9.0	56.8
170	11.95	35.50	3.02	5.6	50.3
180	11.38	35.44	3.03	4.1	43.7
190	11.29	35.43	3.05	4.2	38.7
200	11.10	35.41	3.05	5.0	33.6
210	10.62	35.34	3.06	5.6	28.5
220	9.60	35.19	2.99	5.2	23.1
230	9.59	35.20	3.00	6.7	20.9
240	9.56	35.19	3.01	8.5	18.8
250	9.34	35.16	2.99	8.8	16.9
260	8.96	35.12	3.00	4.7	13.2

Table 31: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.98	36.37	4.42	NaN	NaN
10	29.98	36.39	4.45	11.0	227.7
20	29.44	36.31	4.54	10.9	227.6
30	28.46	36.40	4.56	6.9	233.1
40	27.19	36.47	4.63	5.0	231.9
50	26.62	36.55	4.37	4.1	227.3
60	25.90	36.63	4.17	9.2	214.8
70	25.22	36.69	4.04	6.6	204.1
80	24.17	36.77	3.86	4.6	196.0
90	22.62	36.68	3.78	5.6	184.6
100	18.91	36.54	3.40	6.5	166.8
110	17.99	36.46	3.46	6.4	156.5
120	17.78	36.43	3.43	8.2	149.7
130	17.28	36.36	3.50	7.8	140.8
140	16.96	36.31	3.47	5.7	134.2
150	16.30	36.19	3.45	7.2	125.7
160	15.72	36.10	3.39	5.3	115.5
170	14.92	35.96	3.30	2.0	109.0
180	14.79	35.95	3.29	-0.9	106.2
190	14.63	35.92	3.28	0.3	104.1
200	14.11	35.83	3.19	2.6	99.3
210	13.98	35.81	3.19	3.8	96.1
220	13.86	35.79	3.18	4.6	94.2
230	13.49	35.73	3.11	6.6	92.6
240	13.15	35.67	3.07	7.5	89.1
250	12.71	35.60	3.05	6.1	87.5
260	12.49	35.57	3.03	4.6	86.3
270	12.12	35.52	3.03	8.5	82.7
280	11.59	35.45	3.02	11.7	75.0
290	11.25	35.40	3.00	12.7	65.2
300	10.85	35.33	2.99	8.9	55.9
350	8.20	35.04	3.05	-0.7	34.7

Table 32: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.99	36.34	4.43	NaN	NaN
10	29.94	36.34	4.46	7.9	217.6
20	29.63	36.33	4.47	7.5	215.3
30	29.00	36.39	4.52	7.1	210.3
40	28.08	36.41	4.55	6.1	210.0
50	27.08	36.45	4.42	4.9	210.7
60	26.74	36.50	4.35	5.3	210.3
70	26.39	36.56	4.32	6.3	209.6
80	25.45	36.64	4.08	5.9	204.3
90	24.48	36.76	3.89	9.3	194.2
100	23.65	36.82	3.75	7.9	185.2
110	22.24	36.71	3.80	0.7	175.2
120	20.59	36.64	3.62	0.9	163.3
130	20.09	36.69	3.52	7.2	152.4
140	18.97	36.60	3.50	12.3	141.5
150	17.83	36.44	3.48	13.1	131.0
160	17.29	36.37	3.54	12.5	121.9
170	16.85	36.29	3.52	9.0	114.6
180	16.64	36.26	3.51	7.3	109.8
190	16.37	36.21	3.46	1.8	107.1
200	16.29	36.20	3.46	-3.8	109.2
210	16.21	36.18	3.46	-5.9	111.6
220	15.71	36.09	3.38	-3.1	110.5
230	15.22	36.01	3.36	1.8	106.1
240	14.95	35.97	3.33	2.1	102.6
250	14.55	35.90	3.29	-2.2	100.2
260	14.36	35.87	3.26	-3.0	101.3
270	14.10	35.82	3.23	-1.8	101.5
280	13.94	35.79	3.21	0.5	99.5
290	13.75	35.76	3.19	1.5	99.7
300	13.59	35.73	3.17	2.1	98.2
350	11.23	35.37	2.91	1.1	74.6
400	10.01	35.19	2.89	-4.7	69.7
450	8.96	35.06	2.90	8.6	62.5
500	7.94	34.99	3.03	8.2	47.6

Table 33: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.06	36.30	4.42	NaN	NaN
10	30.04	36.30	4.42	7.5	198.9
20	29.72	36.30	4.47	6.5	200.4
30	29.27	36.33	4.52	7.2	197.8
40	28.92	36.31	4.52	5.1	196.0
50	28.35	36.35	4.54	6.6	195.7
60	27.81	36.36	4.59	7.5	196.0
70	27.03	36.48	4.44	5.6	191.7
80	26.02	36.61	4.16	0.1	186.8
90	25.63	36.65	4.08	-3.6	183.4
100	25.12	36.69	4.01	0.4	176.7
110	24.60	36.74	3.90	5.4	169.0
120	23.62	36.79	3.77	10.7	160.1
130	21.37	36.65	3.67	14.6	149.0
140	20.06	36.71	3.49	14.0	129.5
150	19.21	36.63	3.47	6.5	124.6
160	18.77	36.57	3.53	1.4	124.1
170	18.36	36.51	3.49	2.3	121.7
180	17.66	36.41	3.47	2.0	114.8
190	17.08	36.32	3.50	-1.7	109.4
200	16.72	36.27	3.49	-8.5	107.1
210	16.44	36.22	3.47	-9.8	106.4
220	16.28	36.20	3.45	-6.8	104.6
230	16.09	36.16	3.45	-2.4	103.8
240	15.97	36.14	3.45	1.8	103.5
250	15.58	36.07	3.40	3.7	103.0
260	15.46	36.05	3.40	3.8	102.2
270	15.18	36.00	3.36	3.4	100.4
280	14.94	35.96	3.34	3.2	97.3
290	14.58	35.90	3.31	6.0	94.3
300	14.37	35.86	3.28	7.5	90.2
350	12.37	35.54	3.02	-1.7	78.3
400	11.38	35.38	2.96	-1.3	81.4
450	10.24	35.22	2.90	3.8	69.7
500	9.20	35.09	2.89	5.7	60.6
550	8.47	35.01	2.91	3.5	55.8
600	7.36	34.93	3.09	7.0	40.2

Table 34: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.24	36.33	4.43	NaN	NaN
10	30.04	36.32	4.47	-14.6	175.1
20	29.66	36.31	4.47	-13.9	174.1
30	29.22	36.31	4.53	-6.3	170.1
40	28.80	36.33	4.55	-0.3	170.5
50	28.51	36.34	4.57	4.2	169.2
60	28.28	36.36	4.57	7.1	166.2
70	27.74	36.41	4.54	6.8	161.6
80	27.23	36.46	4.46	9.8	158.2
90	26.78	36.51	4.42	11.8	153.6
100	25.84	36.69	4.09	17.9	150.1
110	24.56	36.87	3.88	24.1	149.2
120	23.99	36.92	3.75	27.3	147.0
130	23.64	36.93	3.71	26.6	139.2
140	22.89	36.91	3.65	22.5	135.2
150	22.23	36.92	3.57	18.2	129.4
160	21.56	36.86	3.53	15.7	122.2
170	21.14	36.84	3.51	10.9	114.6
180	20.04	36.72	3.47	2.9	109.8
190	19.74	36.70	3.48	-2.4	110.8
200	19.13	36.61	3.52	-4.5	111.1
210	18.81	36.56	3.50	-3.1	106.2
220	17.95	36.45	3.52	0.7	103.5
230	17.70	36.43	3.57	2.2	103.0
240	17.46	36.38	3.56	1.4	97.9
250	17.00	36.31	3.55	0.4	92.9
260	16.60	36.25	3.51	2.8	88.1
270	16.36	36.21	3.51	2.3	83.6
280	16.05	36.15	3.47	2.2	80.1
290	15.87	36.12	3.45	2.7	77.1
300	15.61	36.08	3.42	2.1	75.9
350	14.12	35.82	3.21	-1.7	71.0
400	12.01	35.48	3.03	1.2	63.1
450	10.88	35.31	2.95	-2.5	55.7
500	10.28	35.22	2.92	-3.6	51.9
550	9.47	35.11	2.91	-0.4	47.4
600	9.09	35.07	2.91	3.5	45.3
650	7.94	34.95	2.96	1.1	34.5
700	7.43	34.94	3.09	-0.6	29.3
750	7.02	34.92	3.17	-3.3	23.6

Table 35: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.03	36.32	4.45	NaN	NaN
10	29.92	36.32	4.47	2.1	150.3
20	29.80	36.33	4.47	0.7	150.1
30	29.27	36.30	4.52	-2.6	151.2
40	28.59	36.31	4.61	-5.1	148.5
50	28.55	36.31	4.61	-8.9	144.0
60	28.30	36.35	4.59	-14.5	135.6
70	27.68	36.38	4.53	-14.8	130.4
80	27.20	36.43	4.47	-6.3	127.5
90	26.56	36.54	4.31	1.9	127.0
100	25.85	36.72	4.07	8.3	127.4
110	25.43	36.79	3.95	13.1	126.4
120	24.99	36.87	3.90	14.5	126.1
130	23.95	36.91	3.75	20.8	131.7
140	23.46	36.92	3.71	27.3	132.5
150	23.23	36.92	3.68	31.6	128.5
160	22.92	36.92	3.65	28.5	127.1
170	22.71	36.91	3.64	23.3	129.7
180	22.65	36.91	3.63	23.5	126.6
190	22.28	36.91	3.59	23.4	118.6
200	21.22	36.84	3.52	19.8	104.5
210	19.75	36.68	3.50	16.0	96.1
220	19.35	36.64	3.49	4.5	92.6
230	18.96	36.60	3.49	-0.7	91.3
240	18.55	36.55	3.59	-5.3	91.4
250	18.26	36.51	3.61	-6.8	88.7
260	17.98	36.47	3.60	-6.6	85.0
270	17.81	36.44	3.61	-4.7	81.3
280	17.53	36.40	3.60	-3.0	76.6
290	17.22	36.36	3.69	-4.6	75.4
300	17.23	36.37	3.72	-6.0	76.2
350	15.88	36.15	3.62	-5.1	64.6
400	15.00	35.98	3.40	4.3	64.8
450	12.90	35.62	3.16	1.2	37.5
500	11.31	35.37	2.99	-0.3	21.7
550	10.73	35.29	2.95	-2.2	13.6
600	9.88	35.16	2.92	-8.4	9.1
650	9.19	35.08	2.92	-1.5	2.9

Table 36: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.90	36.34	4.50	NaN	NaN
10	29.55	36.35	4.53	13.6	106.3
20	29.26	36.40	4.57	9.7	106.1
30	29.20	36.43	4.55	-3.1	100.2
40	29.19	36.44	4.55	-5.3	98.0
50	29.18	36.44	4.54	-9.0	94.0
60	29.14	36.44	4.54	-15.1	89.0
70	27.62	36.50	4.43	-17.3	86.4
80	27.55	36.51	4.42	-16.7	86.8
90	27.30	36.50	4.38	-17.7	88.6
100	26.36	36.59	4.18	-13.5	88.0
110	26.11	36.62	4.15	1.2	86.0
120	25.09	36.80	3.88	13.8	81.2
130	24.07	36.90	3.76	13.2	78.0
140	23.75	36.92	3.73	3.9	78.2
150	23.55	36.93	3.72	5.9	81.0
160	23.16	36.92	3.68	11.6	82.4
170	22.81	36.91	3.66	16.9	82.2
180	22.66	36.91	3.64	17.3	82.3
190	22.58	36.91	3.63	16.6	82.2
200	22.22	36.90	3.60	15.2	80.7
210	22.07	36.90	3.58	8.0	78.8
220	20.90	36.81	3.50	2.1	77.8
230	20.62	36.78	3.55	-8.9	76.8
240	20.17	36.73	3.66	-13.2	75.5
250	19.44	36.66	3.68	-12.1	70.6
260	19.29	36.65	3.91	-10.6	69.2
270	18.86	36.60	4.31	-7.1	66.6
280	18.57	36.58	4.12	-6.4	64.3
290	18.14	36.53	4.00	-7.5	59.5
300	18.03	36.51	4.00	-8.0	56.6
350	17.35	36.39	3.95	-12.8	48.1
400	16.34	36.22	3.74	-8.0	36.8
450	15.76	36.11	3.56	-0.4	31.1
500	14.09	35.82	3.29	4.1	13.6
550	12.90	35.61	3.12	-0.0	3.6
600	11.38	35.40	3.06	0.9	-12.1

Table 37: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1607. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.97	36.34	4.49	NaN	NaN
10	29.82	36.36	4.51	7.4	39.8
20	29.81	36.36	4.51	8.3	41.3
30	29.79	36.39	4.52	7.3	39.7
40	29.57	36.39	4.53	7.3	38.4
50	29.57	36.40	4.53	9.9	35.9
60	29.23	36.42	4.55	2.4	33.4
70	27.53	36.42	4.47	-9.1	31.4
80	27.16	36.44	4.49	-17.9	31.1
90	27.01	36.45	4.49	-19.3	34.2
100	25.96	36.54	4.55	-15.9	40.9
110	25.61	36.62	4.40	-6.1	46.4
120	24.85	36.79	3.93	0.5	48.7
130	24.56	36.83	3.87	-2.4	49.9
140	24.40	36.87	3.84	-8.3	50.2
150	23.68	36.92	3.72	-4.0	48.6
160	22.92	36.93	3.65	5.3	47.1
170	22.79	36.93	3.64	12.8	47.3
180	22.69	36.93	3.63	13.6	47.8
190	22.61	36.92	3.62	12.7	49.5
200	22.23	36.90	3.60	10.4	49.2
210	21.66	36.83	3.86	4.3	46.0
220	21.58	36.84	3.79	-4.2	43.1
230	21.32	36.82	3.88	-10.8	42.5
240	21.08	36.79	3.74	-15.6	43.8
250	20.53	36.75	4.17	-20.1	45.5
260	20.17	36.69	4.21	-24.0	47.6
270	20.15	36.69	4.26	-23.5	49.5
280	19.82	36.64	4.41	-18.0	50.3
290	19.39	36.62	4.26	-15.6	48.4
300	18.99	36.60	4.31	-15.7	45.3
350	17.96	36.51	4.32	-13.2	46.0
400	16.92	36.34	4.08	-8.3	36.1
450	16.19	36.21	3.93	-6.6	28.9

Table 38: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.42	35.78	4.45	NaN	NaN
10	28.77	35.89	4.48	-3.9	154.8
20	28.40	36.11	4.49	-2.8	148.6
30	27.50	36.28	4.45	-2.3	137.2
40	26.79	36.30	4.34	0.2	131.1
50	25.92	36.36	4.14	5.8	117.6
60	24.46	36.46	4.10	7.2	96.9
70	20.18	36.38	3.62	8.1	59.0
80	16.35	36.09	3.32	7.4	35.6
90	15.15	36.00	3.21	4.7	18.6
100	14.53	35.92	3.16	3.2	5.7
110	14.05	35.85	3.14	3.1	-4.2
120	13.44	35.77	3.09	0.8	-8.5
130	12.54	35.62	3.07	1.5	-14.4
140	12.15	35.57	3.01	2.7	-16.9

Table 39: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.63	36.12	4.44	NaN	NaN
10	29.55	36.12	4.45	2.9	195.1
20	29.45	36.29	4.47	-3.0	192.1
30	29.05	36.24	4.50	-2.3	187.6
40	28.31	36.24	4.52	-2.3	188.3
50	27.52	36.34	4.50	2.2	183.2
60	26.68	36.39	4.45	9.5	170.2
70	24.02	36.40	3.99	16.5	144.7
80	22.63	36.51	3.85	18.1	120.2
90	20.41	36.42	3.58	11.0	103.5
100	18.35	36.24	3.43	6.9	85.2
110	16.89	36.10	3.34	2.9	65.4
120	15.13	35.89	3.23	0.7	45.4
130	13.16	35.67	3.10	1.7	30.7
140	12.39	35.59	2.98	1.6	21.7
150	11.78	35.52	3.04	0.9	14.9
160	11.21	35.44	3.01	1.5	10.0
170	10.86	35.39	2.98	1.2	5.8
180	10.41	35.32	2.93	1.6	2.2
190	10.28	35.30	2.92	1.5	-0.3
200	10.11	35.27	2.91	1.2	1.7
210	9.33	35.15	2.86	3.2	4.7
220	8.87	35.08	2.82	5.6	0.6
230	8.72	35.06	2.81	6.3	-2.7
240	8.60	35.04	2.80	5.3	-2.7
250	8.52	35.03	2.80	6.0	-0.7
260	8.38	35.02	2.80	NaN	NaN

Table 40: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.61	36.16	4.46	NaN	NaN
10	29.54	36.17	4.46	0.6	227.8
20	29.53	36.18	4.45	0.6	225.4
30	29.54	36.34	4.48	1.4	228.8
40	28.93	36.41	4.53	0.8	230.0
50	28.47	36.44	4.49	4.8	229.5
60	27.87	36.47	4.46	10.9	227.6
70	27.21	36.51	4.44	6.0	223.7
80	25.18	36.47	4.57	8.6	216.4
90	23.30	36.49	4.04	9.5	196.1
100	21.59	36.41	3.92	4.4	178.6
110	20.71	36.56	3.65	0.8	166.7
120	19.82	36.59	3.45	3.9	157.3
130	18.74	36.44	3.39	12.1	146.5
140	18.09	36.31	3.32	12.4	135.0
150	17.05	36.16	3.28	6.0	125.0
160	16.04	36.09	3.20	-0.5	117.6
170	15.50	36.03	3.17	-3.3	112.2
180	14.15	35.82	3.06	-1.4	108.5
190	13.55	35.74	3.03	1.6	104.1
200	13.01	35.65	2.98	2.3	99.0
210	12.59	35.59	2.95	3.0	87.0
220	11.38	35.42	2.94	6.4	76.7
230	10.90	35.35	2.91	7.2	65.8
240	10.24	35.27	2.88	6.9	56.8
250	9.28	35.14	2.87	5.6	48.8
260	9.16	35.12	2.85	3.5	43.5
270	9.13	35.11	2.84	2.0	40.4
280	9.10	35.11	2.83	1.8	39.2
290	9.01	35.10	2.84	1.4	36.9
300	8.81	35.08	2.85	1.8	35.5
350	7.58	34.96	2.94	8.8	31.0

Table 41: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.07	36.42	4.42	NaN	NaN
10	30.05	36.42	4.42	1.7	208.8
20	30.04	36.42	4.43	1.7	208.8
30	29.78	36.39	4.48	1.9	209.0
40	29.00	36.34	4.63	0.8	208.6
50	28.43	36.42	4.59	2.8	208.6
60	27.79	36.47	4.52	5.2	211.5
70	27.37	36.53	4.41	8.0	214.1
80	26.81	36.59	4.26	13.3	214.7
90	26.09	36.71	4.07	12.0	210.0
100	24.88	36.77	3.95	11.7	205.4
110	23.84	36.93	3.73	16.8	200.5
120	23.16	36.91	3.64	23.5	188.7
130	21.43	36.82	3.49	21.1	176.0
140	20.89	36.79	3.43	14.0	167.8
150	19.87	36.70	3.43	2.5	163.5
160	19.02	36.59	3.41	-5.1	163.9
170	18.35	36.53	3.45	-3.8	165.7
180	17.40	36.39	3.46	4.7	160.4
190	17.08	36.33	3.44	12.8	152.6
200	16.37	36.21	3.38	13.8	143.9
210	15.99	36.15	3.33	11.4	138.1
220	15.92	36.14	3.32	7.4	135.9
230	15.84	36.12	3.31	5.1	132.5
240	15.62	36.08	3.31	3.3	126.6
250	15.35	36.04	3.27	1.2	123.4
260	15.20	36.01	3.25	-1.8	122.3
270	14.61	35.91	3.23	-2.9	122.9
280	14.25	35.85	3.16	-0.7	121.2
290	13.96	35.80	3.12	-1.4	118.0
300	13.36	35.70	3.08	-2.9	113.7
350	11.33	35.40	2.88	1.9	97.3
400	9.32	35.14	2.87	8.8	66.5
450	8.05	35.01	2.95	9.5	55.8
500	6.60	34.92	3.21	5.9	30.9

Table 42: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	30.02	36.42	4.41	NaN	NaN
10	29.97	36.42	4.41	2.3	186.8
20	29.94	36.42	4.42	3.2	188.9
30	29.92	36.41	4.43	4.1	189.0
40	29.19	36.36	4.58	3.4	186.8
50	28.95	36.42	4.58	0.1	183.0
60	28.26	36.41	4.55	0.2	181.8
70	27.40	36.38	4.48	7.0	182.5
80	26.78	36.58	4.28	15.3	185.3
90	26.20	36.68	4.09	19.7	189.1
100	25.77	36.74	3.99	17.0	190.2
110	24.90	36.85	3.89	16.5	186.5
120	23.95	36.92	3.77	22.4	181.4
130	23.50	36.95	3.66	24.8	178.6
140	22.58	36.91	3.58	19.0	171.0
150	21.03	36.84	3.50	13.8	159.3
160	20.54	36.80	3.45	9.5	150.8
170	19.86	36.72	3.45	0.8	147.6
180	19.70	36.70	3.44	-5.6	147.7
190	19.23	36.65	3.46	-5.6	148.2
200	18.28	36.52	3.48	1.2	148.5
210	17.90	36.47	3.48	6.1	144.8
220	17.38	36.38	3.48	8.5	141.9
230	17.32	36.38	3.48	8.6	141.5
240	16.84	36.29	3.47	10.1	140.2
250	16.25	36.19	3.41	11.3	134.9
260	15.94	36.14	3.35	11.4	126.4
270	15.63	36.08	3.31	10.5	120.0
280	15.36	36.04	3.28	6.7	119.2
290	15.17	36.00	3.25	4.3	117.5
300	14.83	35.94	3.21	4.1	116.1
350	13.39	35.70	3.05	3.5	109.6
400	11.45	35.40	2.85	-1.6	107.4
450	9.23	35.09	2.76	11.7	93.9
500	7.38	34.94	2.98	11.8	77.3
550	6.87	34.92	3.13	12.9	62.1
600	6.67	34.91	3.20	15.9	47.1

Table 43: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.94	36.40	4.42	NaN	NaN
10	29.88	36.40	4.42	9.1	155.5
20	29.85	36.40	4.42	7.9	155.4
30	29.71	36.39	4.44	7.9	156.1
40	29.02	36.35	4.60	13.3	151.9
50	28.52	36.41	4.52	14.0	152.1
60	27.83	36.43	4.48	4.8	151.4
70	27.31	36.50	4.37	0.3	145.0
80	27.06	36.51	4.32	6.2	142.1
90	26.33	36.67	4.14	13.5	141.5
100	25.95	36.72	4.04	18.7	136.7
110	25.57	36.78	3.96	21.9	138.1
120	25.02	36.85	3.88	16.3	136.6
130	24.66	36.90	3.81	9.6	135.5
140	23.92	36.94	3.72	5.3	137.3
150	22.66	36.94	3.59	4.6	133.8
160	22.53	36.93	3.54	0.5	131.0
170	21.84	36.87	3.59	-1.8	129.5
180	21.07	36.84	3.47	0.0	128.4
190	20.35	36.75	3.90	-0.0	126.8
200	19.90	36.72	3.70	-3.3	124.1
210	19.52	36.68	3.59	-4.4	123.4
220	19.12	36.63	3.48	-4.0	122.3
230	18.75	36.58	3.44	-4.1	118.5
240	18.25	36.51	3.48	-4.6	115.0
250	17.79	36.44	3.53	-3.5	113.7
260	17.57	36.41	3.50	-3.0	111.6
270	17.22	36.36	3.74	-2.6	108.7
280	16.96	36.33	3.70	-1.0	106.7
290	16.71	36.28	3.65	2.8	105.4
300	16.18	36.19	3.50	3.9	104.5
350	15.11	36.00	3.25	7.1	103.5
400	13.27	35.68	3.03	6.2	93.3
450	11.51	35.40	2.87	6.7	75.7
500	10.16	35.21	2.79	1.8	62.4
550	9.14	35.08	2.75	1.0	52.6
600	7.38	34.93	3.00	-9.0	37.3
650	7.20	34.92	3.06	-6.1	30.8
700	7.05	34.91	3.10	-2.2	25.8
750	6.79	34.90	3.18	-3.2	23.0

Table 44: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.42	36.29	4.41	NaN	NaN
10	29.38	36.30	4.43	-3.4	134.6
20	29.37	36.31	4.44	-4.2	131.1
30	29.31	36.30	4.44	-2.3	131.4
40	29.26	36.30	4.45	0.0	129.3
50	29.22	36.34	4.47	2.1	129.5
60	28.90	36.39	4.51	4.5	131.4
70	28.35	36.41	4.50	9.1	129.0
80	27.59	36.45	4.42	6.6	123.3
90	26.81	36.53	4.21	2.0	118.5
100	26.68	36.61	4.14	-3.2	118.1
110	26.20	36.67	4.05	-3.8	119.3
120	25.56	36.76	3.89	0.1	118.3
130	24.63	36.87	3.78	3.4	113.7
140	23.61	36.86	3.84	3.2	107.7
150	23.41	36.88	3.84	-0.4	105.6
160	23.03	36.93	3.64	-4.9	109.3
170	21.88	36.87	3.60	-5.7	111.2
180	21.63	36.86	3.63	-5.7	108.3
190	20.76	36.80	3.68	-7.0	106.6
200	20.24	36.75	3.44	-6.2	105.9
210	19.77	36.70	3.42	-5.3	100.8
220	19.23	36.64	3.45	-6.4	95.9
230	19.01	36.61	3.44	-7.0	92.0
240	18.77	36.58	3.44	-10.1	90.5
250	18.67	36.58	3.56	-10.2	90.3
260	18.46	36.56	3.88	-9.8	88.7
270	18.40	36.55	3.84	-12.1	87.7
280	18.27	36.54	3.81	-10.0	86.4
290	18.04	36.50	3.87	-9.1	84.5
300	17.54	36.40	3.56	-6.7	81.1
350	16.58	36.24	3.45	-7.9	73.7
400	14.54	35.89	3.16	-7.1	58.7
450	13.29	35.68	2.96	-5.2	58.7
500	12.27	35.52	2.89	5.7	52.2
550	10.49	35.25	2.81	0.5	41.6
600	8.87	35.05	2.80	-2.5	33.7
650	8.60	35.05	2.94	-9.4	24.6

Table 45: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.52	36.30	4.42	NaN	NaN
10	29.50	36.30	4.42	6.0	97.4
20	29.39	36.31	4.43	4.4	99.1
30	29.37	36.32	4.42	-2.2	97.9
40	29.38	36.36	4.43	-11.5	96.7
50	29.32	36.43	4.44	-10.3	98.6
60	28.86	36.52	4.46	0.5	99.7
70	28.42	36.51	4.42	4.0	98.9
80	28.40	36.54	4.38	2.2	98.0
90	28.36	36.53	4.39	2.3	97.7
100	27.27	36.49	4.28	4.3	92.7
110	26.57	36.55	4.08	-1.4	85.7
120	25.64	36.74	3.90	-14.7	81.0
130	25.07	36.75	4.05	-26.3	82.1
140	24.11	36.74	4.58	-23.8	85.7
150	23.60	36.79	4.51	-13.9	88.2
160	22.04	36.76	4.39	-14.0	85.9
170	21.65	36.75	4.33	-20.0	83.1
180	21.04	36.73	4.33	-20.6	81.9
190	20.61	36.71	4.29	-19.1	79.7
200	20.24	36.70	4.25	-15.2	78.2
210	20.01	36.69	4.22	-13.0	77.5
220	19.79	36.66	4.22	-14.5	76.3
230	19.40	36.64	4.23	-16.4	74.7
240	19.20	36.64	4.21	-17.1	75.0
250	19.04	36.62	4.21	-16.9	74.2
260	18.92	36.62	4.22	-13.1	72.8
270	18.65	36.59	4.22	-10.9	72.6
280	18.47	36.58	4.22	-12.6	73.7
290	18.21	36.55	4.22	-18.6	75.0
300	18.15	36.54	4.21	-21.7	74.8
350	17.52	36.45	4.19	-17.5	65.2
400	16.59	36.29	4.10	-10.4	61.5
450	14.60	35.92	3.39	-12.0	46.3
500	13.06	35.65	3.18	-4.7	42.4
550	11.99	35.55	3.34	-7.7	41.1
600	11.21	35.44	3.27	-3.9	22.7

Table 46: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1609. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	29.55	36.31	4.42	NaN	NaN
10	29.55	36.31	4.42	-15.1	70.3
20	29.56	36.32	4.41	-14.0	67.6
30	29.52	36.34	4.42	-15.7	66.2
40	29.40	36.37	4.43	-20.5	67.4
50	29.41	36.38	4.44	-21.9	70.4
60	29.41	36.40	4.45	-18.6	72.0
70	29.04	36.40	4.50	-10.6	68.4
80	28.23	36.39	4.54	0.4	64.4
90	27.28	36.45	4.36	4.6	61.3
100	26.68	36.54	4.17	-0.2	57.4
110	25.90	36.66	4.46	-18.8	57.6
120	25.45	36.70	4.52	-30.9	62.3
130	24.71	36.73	4.50	-30.7	66.5
140	24.39	36.74	4.51	-33.8	64.3
150	23.59	36.76	4.46	-36.8	56.9
160	23.14	36.77	4.44	-32.8	55.5
170	23.03	36.77	4.44	-30.7	57.2
180	22.50	36.75	4.42	-19.7	56.8
190	21.26	36.71	4.40	-11.2	56.3
200	20.91	36.71	4.35	-8.1	55.5
210	20.55	36.70	4.34	-5.8	53.2
220	20.07	36.68	4.25	-6.0	47.3
230	19.43	36.65	4.22	-12.4	40.2
240	19.08	36.63	4.22	-18.0	33.8
250	18.98	36.62	4.21	-19.7	31.7
260	18.90	36.61	4.21	-18.5	30.6
270	18.72	36.60	4.22	-17.4	30.9
280	18.58	36.59	4.22	-20.8	30.4
290	18.43	36.57	4.21	-24.4	28.4
300	18.00	36.52	4.23	-23.9	27.9
350	17.23	36.40	4.15	-12.4	34.4
400	16.89	36.34	4.11	-11.0	43.6
450	15.56	36.12	3.88	-2.7	39.8

Table 47: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 0					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.65	36.27	4.59	NaN	NaN
10	26.65	36.27	4.60	0.2	170.9
20	26.49	36.27	4.62	-1.8	170.4
30	26.45	36.28	4.61	-1.1	160.8
40	26.13	36.23	4.59	-2.2	160.8
50	25.87	36.28	4.60	-4.3	163.0
60	25.87	36.42	4.63	-5.7	170.1
70	25.89	36.44	4.63	-3.7	171.9
80	25.80	36.43	4.60	-1.5	168.6
90	23.89	36.20	4.29	2.2	151.7
100	19.75	36.02	3.82	5.9	116.2
110	16.69	35.92	3.42	5.0	40.6
120	15.12	35.80	3.22	3.8	27.4
130	13.59	35.69	3.08	-1.9	21.1
140	NaN	NaN	NaN	-4.4	20.0

Table 48: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 1					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.35	36.26	4.51	NaN	NaN
10	27.35	36.25	4.52	-2.3	208.8
20	27.35	36.25	4.53	-2.0	207.3
30	27.35	36.25	4.52	-2.1	207.0
40	27.35	36.26	4.52	-3.1	205.4
50	26.73	36.31	4.56	-5.8	198.0
60	25.93	36.41	4.63	-6.4	189.4
70	25.61	36.41	4.64	-5.1	184.3
80	25.29	36.42	4.65	-4.3	183.4
90	24.96	36.43	4.62	-2.4	179.8
100	24.08	36.50	4.53	-0.3	173.2
110	21.82	36.53	3.88	-1.5	168.0
120	21.07	36.59	3.56	-3.3	163.9
130	20.00	36.57	3.34	-0.2	161.2
140	18.56	36.42	3.23	4.6	155.4
150	17.02	36.23	3.15	8.9	140.8
160	16.07	36.10	3.13	10.4	125.1
170	15.66	36.04	3.10	9.8	113.6
180	15.08	35.94	3.10	7.2	100.3
190	13.83	35.78	3.05	4.4	86.9
200	12.58	35.59	3.03	3.6	73.1
210	11.25	35.39	2.98	2.5	51.4
220	10.54	35.31	2.95	2.0	40.5
230	10.01	35.24	2.93	0.9	28.1
240	8.76	35.08	2.94	-1.0	20.5
250	NaN	NaN	NaN	-7.2	19.4

Table 49: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 2					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.52	36.28	4.52	NaN	NaN
10	27.52	36.28	4.51	-6.5	191.5
20	27.52	36.28	4.52	-6.5	192.0
30	27.52	36.28	4.50	-7.2	192.6
40	27.52	36.28	4.52	-7.6	191.6
50	27.52	36.28	4.50	-8.3	191.3
60	27.38	36.33	4.44	-9.6	192.5
70	26.33	36.39	4.59	-3.9	189.2
80	26.00	36.41	4.60	6.9	182.7
90	25.40	36.42	4.62	11.8	174.1
100	25.12	36.43	4.62	6.4	169.0
110	24.67	36.45	4.59	4.1	166.2
120	23.33	36.54	4.30	6.2	165.7
130	22.01	36.55	3.96	2.8	165.4
140	20.93	36.49	3.58	1.5	165.0
150	20.48	36.68	3.30	1.4	164.3
160	19.55	36.56	3.12	3.7	160.0
170	18.97	36.50	2.98	6.4	152.7
180	18.69	36.51	3.11	9.4	146.6
190	18.04	36.42	3.13	11.2	141.4
200	17.38	36.34	3.17	12.8	138.1
210	17.01	36.29	3.17	12.3	134.5
220	16.80	36.26	3.22	9.8	127.0
230	16.14	36.15	3.19	5.7	120.2
240	15.51	36.05	3.15	4.2	115.7
250	14.87	35.94	3.09	2.1	113.6
260	14.09	35.82	3.04	-1.9	112.3
270	12.88	35.63	3.00	-2.7	110.8
280	12.13	35.52	2.95	1.2	106.7
290	11.54	35.45	2.90	4.9	101.3
300	11.23	35.41	2.90	7.4	93.1
350	7.64	34.96	3.01	7.1	41.8

Table 50: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 3					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.49	36.21	4.51	NaN	NaN
10	27.55	36.31	4.51	3.4	168.1
20	27.55	36.31	4.50	1.6	165.3
30	27.56	36.32	4.50	2.0	165.2
40	27.57	36.32	4.50	0.7	165.7
50	27.58	36.33	4.50	0.5	167.6
60	27.59	36.34	4.50	0.5	169.2
70	27.57	36.35	4.47	-3.1	171.2
80	27.08	36.57	4.12	-14.2	176.8
90	26.42	36.64	4.03	-20.0	181.5
100	26.17	36.60	4.13	-18.1	186.1
110	25.56	36.66	4.07	-10.5	182.7
120	24.30	36.61	4.05	-4.3	180.5
130	24.25	36.87	3.91	4.8	179.5
140	23.49	36.96	3.67	13.0	171.9
150	22.42	36.94	3.62	14.2	158.2
160	21.49	36.85	3.54	7.8	146.3
170	20.74	36.76	3.53	-0.9	146.4
180	19.88	36.65	3.25	-6.0	149.2
190	19.44	36.60	3.19	-4.5	152.8
200	18.82	36.57	3.38	2.7	150.9
210	18.48	36.53	3.41	6.5	149.0
220	18.02	36.47	3.42	10.1	144.0
230	17.47	36.37	3.38	11.5	136.8
240	16.99	36.30	3.24	9.7	132.3
250	16.62	36.24	3.40	11.1	127.7
260	15.78	36.09	3.12	9.7	124.0
270	15.56	36.06	3.15	6.9	123.9
280	15.48	36.05	3.13	6.1	123.9
290	15.12	35.99	3.07	6.0	122.5
300	14.81	35.93	3.05	5.8	120.7
350	12.45	35.56	2.88	0.6	110.4
400	10.20	35.23	2.73	6.5	88.3
450	8.84	35.07	2.88	2.8	63.1
500	7.89	34.99	2.99	0.6	40.1

Table 51: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 4					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.52	36.33	4.49	NaN	NaN
10	27.54	36.33	4.49	10.1	145.1
20	27.54	36.33	4.49	10.5	145.2
30	27.52	36.33	4.49	8.5	147.8
40	27.46	36.36	4.50	3.1	150.9
50	27.45	36.42	4.49	-1.9	155.0
60	27.44	36.42	4.48	-3.4	157.5
70	27.41	36.42	4.48	-6.0	161.7
80	26.87	36.55	4.29	-11.8	172.2
90	26.66	36.56	4.43	-17.2	182.2
100	26.57	36.58	4.42	-19.3	185.5
110	26.27	36.67	4.12	-15.4	181.1
120	25.75	36.78	3.92	-7.6	171.2
130	24.78	36.86	3.79	-2.0	164.3
140	23.98	36.93	3.72	5.4	152.9
150	23.39	36.96	3.68	4.7	145.0
160	22.57	36.85	3.60	3.2	139.6
170	21.22	36.71	3.43	3.7	132.4
180	20.60	36.68	3.31	1.7	129.5
190	20.22	36.72	3.34	-1.2	131.2
200	19.61	36.68	3.46	-1.5	134.2
210	19.26	36.63	3.44	0.3	135.5
220	18.59	36.54	3.40	-0.5	134.0
230	18.07	36.47	3.40	1.4	128.9
240	17.70	36.42	3.41	1.5	123.8
250	17.35	36.37	3.41	2.4	123.5
260	17.08	36.32	3.42	4.5	123.5
270	16.80	36.28	3.44	5.7	120.3
280	16.22	36.18	3.40	7.4	118.1
290	15.72	36.09	3.34	8.9	113.7
300	15.26	36.01	3.28	8.3	109.5
350	13.59	35.73	3.11	0.8	96.3
400	12.44	35.55	2.79	4.1	92.7
450	10.46	35.26	2.71	4.7	76.3
500	9.29	35.09	2.80	8.1	72.7
550	8.43	35.01	2.88	7.7	54.9
600	7.07	34.93	3.11	4.5	35.9

Table 52: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 5					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	27.38	36.43	4.52	NaN	NaN
10	27.38	36.43	4.50	7.0	106.2
20	27.38	36.43	4.50	4.1	102.9
30	27.22	36.45	4.51	-5.0	107.5
40	26.82	36.50	4.52	-6.1	118.8
50	26.75	36.52	4.53	-5.4	130.5
60	26.74	36.52	4.52	-5.1	135.4
70	26.73	36.52	4.53	-9.1	137.2
80	26.72	36.53	4.52	-12.7	137.7
90	26.71	36.53	4.49	-14.7	136.5
100	26.68	36.55	4.47	-14.1	134.3
110	26.62	36.57	4.44	-11.0	136.7
120	26.47	36.62	4.37	-5.7	137.9
130	26.37	36.64	4.30	0.3	134.4
140	25.64	36.74	3.99	-3.8	125.4
150	24.51	36.83	3.78	-6.8	119.6
160	23.57	36.87	3.70	-5.7	117.4
170	22.13	36.89	3.61	-10.0	126.0
180	21.35	36.84	3.66	-16.5	131.7
190	20.71	36.80	3.63	-17.7	131.2
200	20.07	36.74	3.64	-12.5	128.2
210	19.78	36.71	3.71	-9.8	126.1
220	19.47	36.67	3.85	-7.4	122.4
230	19.18	36.65	3.91	-5.9	117.5
240	19.03	36.63	3.93	-6.8	114.1
250	18.68	36.59	4.00	-5.2	110.0
260	18.41	36.55	3.86	-5.1	107.3
270	17.72	36.43	3.55	-5.6	104.2
280	17.37	36.38	3.52	-7.7	101.5
290	17.19	36.35	3.54	-8.4	99.3
300	16.95	36.31	3.59	-7.5	97.1
350	15.43	36.06	3.45	-2.2	89.5
400	13.93	35.78	3.07	1.0	75.5
450	12.34	35.52	2.97	-3.6	67.1
500	10.71	35.28	2.85	-0.3	55.7
550	9.70	35.14	2.82	-3.8	48.6
600	8.78	35.03	2.84	0.1	45.3
650	8.18	34.97	2.87	-2.2	37.9
700	7.55	34.93	2.97	1.4	30.1

Table 53: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 6					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.82	36.51	4.54	NaN	NaN
10	26.82	36.52	4.55	0.3	81.2
20	26.80	36.52	4.54	1.4	78.7
30	26.79	36.52	4.54	-0.4	78.6
40	26.77	36.52	4.52	-1.5	79.0
50	26.77	36.52	4.52	-0.5	80.0
60	26.76	36.52	4.51	2.5	81.5
70	26.76	36.52	4.51	5.1	81.7
80	26.74	36.53	4.50	8.1	80.8
90	26.71	36.56	4.44	8.9	80.5
100	26.71	36.56	4.42	6.5	83.5
110	26.54	36.61	4.30	7.6	86.5
120	26.25	36.66	4.23	9.5	87.9
130	25.67	36.76	4.11	6.9	84.2
140	25.26	36.81	3.97	0.3	80.5
150	24.62	36.84	3.89	-7.5	83.2
160	23.86	36.85	3.88	-8.6	88.8
170	22.70	36.87	3.87	-8.4	90.5
180	21.86	36.84	3.88	-12.5	89.3
190	21.18	36.79	3.93	-17.8	89.6
200	20.53	36.72	3.98	-21.0	88.4
210	19.95	36.68	4.06	-20.9	86.5
220	19.61	36.65	4.13	-19.5	86.6
230	19.27	36.63	4.07	-20.1	88.0
240	19.03	36.63	3.80	-18.7	89.3
250	18.89	36.61	3.88	-17.7	89.8
260	18.81	36.60	3.93	-14.4	89.7
270	18.69	36.59	3.87	-12.2	86.6
280	18.65	36.58	3.89	-12.4	85.3
290	18.64	36.58	3.91	-12.2	83.1
300	18.52	36.56	3.84	-9.4	80.4
350	16.98	36.31	3.49	-2.1	68.2
400	15.75	36.10	3.43	-3.6	59.2
450	14.43	35.87	3.17	1.9	48.4
500	12.29	35.52	2.97	0.7	39.9
550	11.18	35.35	2.88	-1.1	33.3
600	10.60	35.26	2.85	-3.7	26.4
650	9.62	35.13	2.84	-6.0	16.6

Table 54: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 7					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.85	36.51	4.54	NaN	NaN
10	26.85	36.50	4.54	0.1	42.0
20	26.85	36.50	4.54	0.8	42.9
30	26.85	36.50	4.53	-0.7	42.6
40	26.85	36.50	4.53	-1.3	43.8
50	26.85	36.50	4.52	-1.0	44.3
60	26.84	36.51	4.51	1.8	44.7
70	26.83	36.51	4.52	4.0	45.9
80	26.80	36.52	4.51	6.7	47.8
90	26.78	36.52	4.51	8.7	48.1
100	26.63	36.59	4.40	4.9	49.4
110	26.38	36.63	4.32	5.3	50.7
120	25.93	36.70	4.19	5.2	52.1
130	25.38	36.78	3.98	1.8	56.6
140	24.99	36.82	3.92	0.1	61.7
150	23.92	36.89	3.77	-0.8	64.9
160	23.03	36.85	3.90	-4.6	62.9
170	22.41	36.87	3.79	-14.4	62.3
180	21.86	36.90	3.58	-21.3	61.1
190	21.31	36.86	3.50	-25.9	59.3
200	20.95	36.83	3.53	-25.6	58.7
210	20.70	36.80	3.60	-24.4	57.0
220	20.47	36.79	3.51	-24.6	57.7
230	20.23	36.77	3.45	-22.5	59.5
240	19.89	36.73	3.46	-18.2	59.9
250	19.64	36.70	3.51	-17.3	56.1
260	19.46	36.68	3.51	-15.6	54.9
270	19.12	36.63	3.60	-9.8	55.7
280	18.86	36.60	3.55	-8.3	57.4
290	18.68	36.58	3.78	-8.7	58.5
300	18.64	36.58	3.84	-7.9	56.9
350	18.08	36.52	4.02	-9.9	59.1
400	16.42	36.22	3.56	-7.0	48.9
450	15.31	36.04	3.46	-5.4	41.7
500	14.48	35.89	3.29	-5.1	33.0
550	12.77	35.59	3.04	-0.9	11.4
600	11.55	35.42	3.04	0.2	-3.1

Table 55: Same as Table 12 for the cruise ID and the station number indicated.

Cruise ID: fc1612. Station: 8					
Pressure	Temperature	Salinity	Oxygen	U speed	V speed
[db]	[deg. C]	[psu]	[ml/l]	[cm/s]	[cm/s]
1	26.86	36.51	4.55	NaN	NaN
10	26.86	36.51	4.56	14.9	17.6
20	26.85	36.51	4.55	14.6	11.8
30	26.84	36.51	4.55	8.6	10.1
40	26.83	36.51	4.54	4.7	11.5
50	26.82	36.52	4.54	0.2	11.1
60	26.82	36.52	4.51	-3.2	11.6
70	26.81	36.52	4.52	-6.1	12.2
80	26.70	36.53	4.47	-8.8	14.7
90	26.38	36.61	4.31	-8.9	22.5
100	26.15	36.66	4.25	-5.0	28.3
110	25.69	36.74	4.13	-6.6	34.4
120	25.43	36.78	4.02	-9.6	37.9
130	25.06	36.86	4.23	-13.2	42.2
140	24.82	36.91	4.28	-17.9	45.4
150	24.41	36.91	4.21	-20.6	47.5
160	23.27	36.89	3.78	-24.2	45.3
170	22.79	36.85	3.90	-24.1	44.3
180	21.92	36.82	3.91	-22.4	45.0
190	21.47	36.82	3.84	-20.3	47.5
200	21.04	36.79	3.90	-19.7	46.3
210	20.73	36.77	3.90	-19.2	45.5
220	20.41	36.75	3.87	-20.6	44.7
230	20.20	36.74	3.79	-20.2	45.6
240	19.85	36.69	3.95	-19.2	46.7
250	19.66	36.67	4.00	-21.6	47.4
260	19.37	36.64	3.99	-21.9	46.3
270	19.22	36.63	3.97	-19.2	44.1
280	19.08	36.62	3.96	-14.5	42.5
290	18.93	36.61	3.94	-12.8	41.9
300	18.84	36.60	3.87	-12.8	43.8
350	18.17	36.51	4.04	-9.6	48.7
400	17.40	36.41	3.97	-10.9	46.9
450	16.38	36.24	3.88	-8.0	34.4

Table 56: Same as Table 12 for the cruise ID and the station number indicated.

