FINAL REPORT FOR US DEPARTMENT OF STATE RESEARCH CRUISE F2012-072

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NOAA Data Report, OAR AOML - 45

HYDROGRAPHIC MEASUREMENTS COLLECTED ABOARD THE NOAA SHIP R/V RONALD H BROWN, 19 FEBRUARY - 5 MARCH 2013: WESTERN BOUNDARY TIME SERIES CRUISE RB-1302 (AB1302)

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March 2014

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / Office of Oceanic and Atmospheric Research

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HYDROGRAPHIC MEASUREMENTS COLLECTED ABOARD THE NOAA SHIP R/V RONALD H BROWN, 19 FEBRUARY - 5 MARCH 2013: WESTERN BOUNDARY TIME SERIES CRUISE RB-1201 (AB1302)

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Abstract

This report summarizes the February 19 - March 5, 2012 cruise on the NOAA Ship Ronald H. Brown involving full-water-column CTD and lowered ADCP profiles, along with shipboard ADCP profiles, conducted within the Florida Straits and east of Abaco Island, Bahamas. At each station, a package consisting of a Seabird Electronics Model 9/11+ CTD O2 system, a RDI 150 kHz Workhorse Lowered Acoustic Doppler Current Profiler, a RDI 300 kHz Workhorse Lowered Acoustic Doppler Current Profiler, and 24 10-liter Niskin bottles, were to be lowered to the bottom. This report includes a description of the calibrations procedures and profiles of pressure, salinity (conductivity), temperature, and dissolved oxygen concentration. Water samples were also collected at various depths and analyzed for salinity and oxygen concentration to aid with CTD calibration. A total of 77 CTD-O2/LADCP stations were occupied and PIES data were downloaded from 5 sites. Several underway operations were involved collecting meteorological, thermosalinograph, bathymetric, shipborne lighting, pollution, and aerobiological measurements.

1 Introduction

The Abaco time series began in August 1984 when NOAA extended its Straits of Florida program to include measurements of western boundary current transports and water mass properties east of Abaco, the Bahamas. Since 1986, 42 hydrographic sections have been completed east of Abaco, most including direct velocity observations by Pegasus and/or Lowered Acoustic Doppler Current Profiler (LADCP). Current meter arrays were also maintained from April 1986 to April 1997. A new international program funded by the United Kingdom's Rapid Climate Change Program and the United States National Science Foundation began in March 2004 and is currently scheduled to end in 2021. Included in this program is a new deployment of current meter moorings along the Abaco section (the UK segment of the program continues with moorings across to the east edge of the Atlantic basin). Independently, the National Oceanic and Atmospheric Administration began a monitoring program in September 2004 utilizing inverted echo sounder moorings (some including bottom pressure measurements and near-bottom current meters) along the Abaco section. All of these programs are collaborating with scientific analysis and logistics including ship time.

The repeated hydrographic and tracer sampling at Abaco has established a high-resolution record of water mass properties in the Deep Western Boundary Current (DWBC) at 26°N, which for temperature and salinity can be reasonably constructed back to about 1985 (Vaughan and Molinari, 1997; Molinari et al., 1998). Events such as the intense convection period in the Labrador Sea and renewal of classical Labrador Sea Water in the 1980's are clearly reflected in the cooling and freshening of the DWBC waters off Abaco, and the arrival of a strong CFC pulse, approximately 10 years later (e.g. van Sebille et al., 2011). This program is unique in that it is not just a single time series site, but instead is a section from which transport can be directly calculated, of which very few are available in the ocean that approach a decade or more in length.

To achieve the goals of NOAA's strategic plan in terms of understanding the Atlantic Ocean's role in decadal and longer time scale climate variability, these continued time series observations at Abaco are seen as serving three main purposes:

1. Monitoring of the DWBC for watermass and transport signatures related to changes in the strengths and regions of high latitude water mass formation in the North Atlantic. Monitoring watermass properties in the DWBC at key locations is one part of an effort to track decadal changes in large-scale watermass properties.

2. Serving as a western boundary endpoint of a subtropical Meridional Overturning Circulation (MOC) heat flux monitoring system designed to measure the interior dynamic height difference across the Atlantic basin and the associated baroclinic heat transport.

3. Monitoring the intensity of the Antilles current as an index (together with the Florida Current) of inter-annual variability in the strength of the subtropical gyre. Variations in the strength of the subtropical gyre in relation to the North Atlantic Oscillation (NAO) has been proposed as an important mechanism in the atmosphere-ocean feedback within coupled models (e.g. Latif and Barnett, 1996).

A hydrographic survey consisting of a repeat LADCP/CTD/rosette section in the western North Atlantic was carried out in February-March 2013 (Figure 1). The R/V Ronald H. Brown departed San Juan, Puerto Rico on 19 February 2012. A total of 77 LADCP/CTD/Rosette stations were occupied, and telemetry from 5 various inverted echo sounder moorings were completed. Water samples (up to 24 for each station), LADCP, CTD data were collected on each cast to within 10 m of the bottom. Salinity and dissolved oxygen samples were analyzed from every bottle sampled on the rosette. Acoustic telemetry was employed at a total of five locations where Inverted Echo Sounder mooring had previously been deployed in order to retrieve data without recovery of the instruments themselves. The cruise ended in Charleston, S.C. in the evening of 4 March 2012. This report describes the participants and details of sampling and analytical methodologies of all projects.

Table 1: Cruise participants of R/V Ronald H Brown Cruise AB1302, February 19–March 5, 2013.

Name	Responsibility	Affiliation	Nationality
Molly Baringer	Principal Investigator, Chief Scientist	NOAA/AOML	USA
Jay Hooper	CTD processing	UM/CIMAS	USA
Andrew Stefanick	Salinity analysis, CTD operations	NOAA/AOML	USA
Ed Hunt	Salinity analysis	Volunteer	USA
Kyle Seaton	Oxygen analysis	UM/CIMAS,	USA
Pedro Pena	Oxygen analysis, IES operations	NOAA/AOML	USA
Kristen Mastropole	CTD Console	Student/RSMAS	USA
Dave Ortiz-Suslow	CTD Console	Student/RSMAS	USA
Ebony Roper		Howard U.	
Mayra Oyola		Howard U.	

Table 2: Abaco Cruise – CTD Cast Summary

Station	Date	Time (GMT)	Latitude	Longitude	Depth
0	02/20/2013	17:21	21.722N	67.457W	2003
1	02/21/2013	20:09	26.501N	69.500W	5416
2	02/22/2013	02:33	26.501N	70.002W	5593
3	02/22/2013	09:21	26.501N	70.500W	5592
4	02/22/2013	16:00	26.500N	70.999W	5587
5	02/22/2013	22:49	26.501N	71.501W	5521
6	02/23/2013	06:20	26.511N	72.003W	5379
7	02/23/2013	13:09	26.500N	72.384W	5276
8	02/23/2013	18:52	26.504N	72.764W	5222
9	02/24/2013	01:02	26.502N	73.130W	5139
10	02/24/2013	07:00	26.500N	73.498W	5041
11	02/24/2013	12:50	26.501N	73.867W	4817
12	02/24/2013	18:21	26.500N	74.234W	4614
13	02/24/2013	23:27	26.500N	74.515W	4566
14	02/25/2013	04:17	26.502N	74.803W	4611
15	02/25/2013	09:21	26.499N	75.084W	4679
16	02/25/2013	13:56	26.500N	75.300W	4708
17	02/25/2013	18:12	26.500N	75.497W	4759
18	02/25/2013	22:52	26.499N	75.704W	4767
19	02/26/2013	03:30	26.502N	75.903W	4822
20	02/26/2013	08:15	26.502N	76.090W	4882
21	02/26/2013	12:33	26.501N	76.218W	4894
22	02/26/2013	16:52	26.500N	76.347W	4937
23	02/26/2013	21:08	26.500N	76.475W	4919
24	02/27/2013	03:29	26.501N	76.563W	4913
25	02/27/2013	07:56	26.508N	76.656W	4601
26	02/27/2013	12:04	26.501N	76.744W	3915
27	02/27/2013	15:54	26.517N	76.834W	1087
28	02/27/2013	18:13	26.524N	76.892W	330
29	02/28/2013	07:56	26.433N	78.669W	760
30	02/28/2013	10:23	26.335N	78.741W	675
31	02/28/2013	12:30	26.255N	78.770W	516
32	02/28/2013	13:58	26.167N	78.798W	454
33	02/28/2013	15:30	26.068N	78.849W	299
34	02/28/2013	23:37	26.051N	79.231W	320
35	03/01/2013	00:55	26.053N	79.313W	485
36	03/01/2013	02:11	26.055N	79.399W	587
37	03/01/2013	03:31	26.059N	79.479W	674
38	03/01/2013	06:06	26.046N	79.560W	762
39	03/01/2013	07:58	26.036N	79.674W	697
40	03/01/2013	09:54	26.033N	79.769W	588
41	03/01/2013	11:23	26.035N	79.849W	317
42	03/01/2013	12:32	26.038N	79.933W	249
43	03/01/2013	13:30	26.048N	80.000W	244
44	03/01/2013	14:28	26.050N	80.066W	126
45	03/01/2013	20:51	27.002N	79.932W	141
46	03/01/2013	21:34	27.001N	79.867W	264
47	03/01/2013	22:53	27.001N	79.786W	373
48	03/02/2013	00:31	26.983N	79.683W	529
49	03/02/2013	01:50	26.996N	79.615W	643
50	03/02/2013	03:22	26.993N	79.499W	750
51	03/02/2013	05:34	27.000N	79.377W	688
52	03/02/2013	07:14	26.994N	79.277W	605
53	03/02/2013	08:50	26.977N	79.198W	488
54	03/02/2013	14:46	27.021N	79.600W	718
55	03/02/2013	16:13	26.991N	79.623W	626
56	03/02/2013	17:26	26.992N	79.623W	624
57	03/02/2013	18:35	26.992N	79.619W	633
58	03/02/2013	19:48	26.986N	79.614W	647
59	03/02/2013	21:08	26.996N	79.622W	624
60	03/02/2013	22:26	26.995N	79.611W	656
61	03/02/2013	23:41	26.991N	79.622W	629
62	03/03/2013	00:49	26.989N	79.613W	650
63	03/03/2013	01:45	26.990N	79.617W	642
64	03/03/2013	02:46	26.991N	79.615W	647
65	03/03/2013	03:39	26.989N	79.616W	645
66	03/03/2013	04:46	26.989N	79.617W	639
67	03/03/2013	05:54	26.986N	79.615W	646
68	03/03/2013	07:00	26.986N	79.614W	647
69	03/03/2013	08:04	26.987N	79.619W	636
70	03/03/2013	09:12	26.992N	79.616W	643
71	03/03/2013	10:18	26.991N	79.619W	637
72	03/03/2013	11:29	26.995N	79.618W	638
73	03/03/2013	12:41	26.992N	79.617W	629
74	03/03/2013	13:38	26.992N	79.616W	643
75	03/03/2013	14:43	26.993N	79.618W	632
76	03/03/2013	15:18	27.006N	79.622W	625

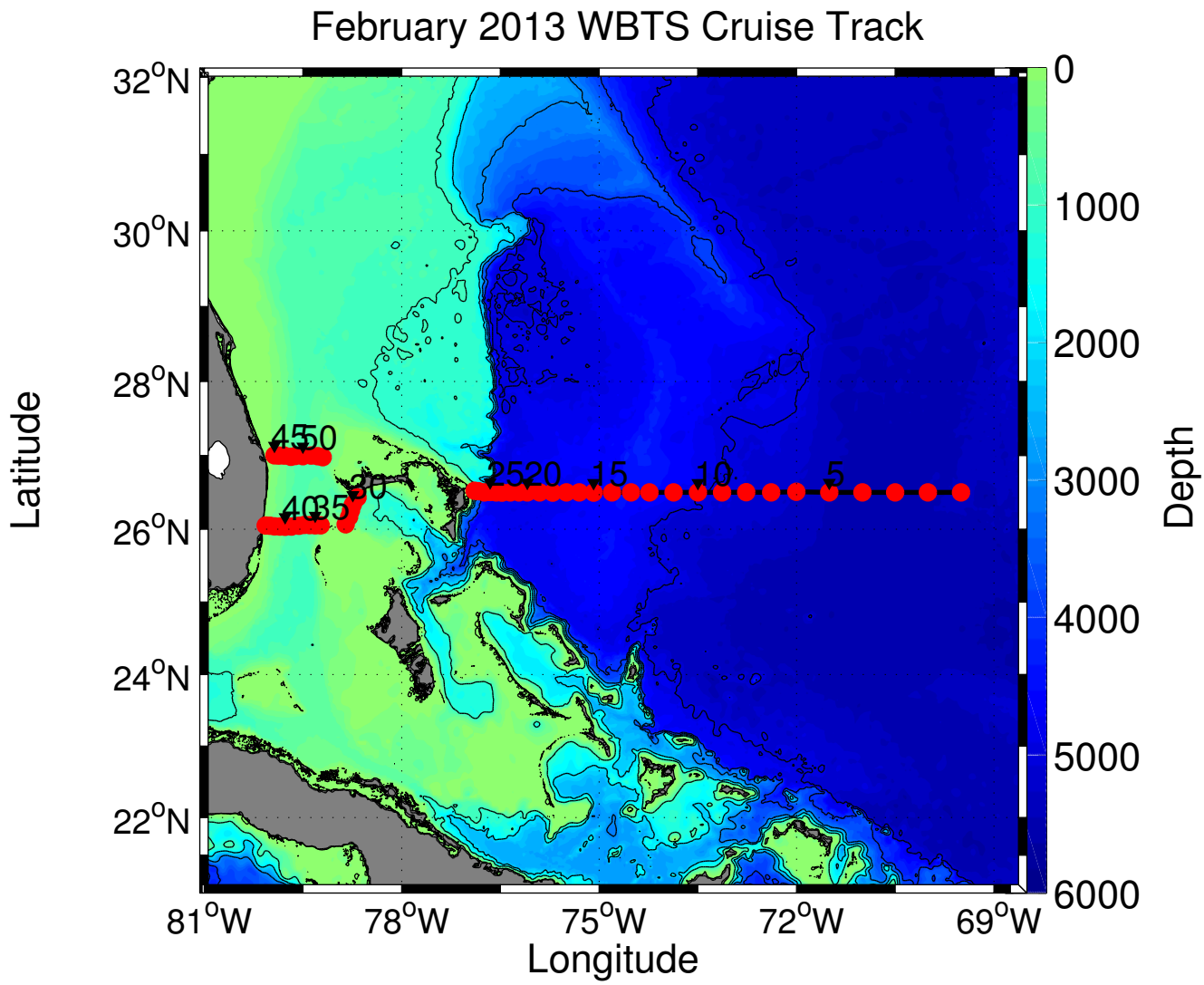

Figure 1: Abaco CTD station locations. The landmasses are shaded and the bathymetry is contoured at 1000 m intervals.

2 Cruise Narrative

The general plan of operations for the cruise was to proceed from San Juan Puerto Rico to 69.5°W, performing one test CTD cast in route. We then began the CTD section along 26.5°N working from east to west. During the Abaco CTD section, acoustic communication with the NOAA PIES & CPIES moorings were also completed. Upon completion of the Abaco CTD section, we completed three short CTD sections in the Northwest Providence Channel, 26°N and 27°N in the Straits of Florida. The Northwest Providence Channel section was completed from North to South and then re-traversed using the shipboard ADCP to get a clean velocity section. At the end of the cruise a time series station at 27°N 79°37' W was occupied for 25 hours.

Departure from San Juan had been scheduled for February 19 at 2:00 pm. This departure was delayed until 6pm while the science party tried to determine if there was any chance that we could get the inverted echo sounder that we had shipped to Puerto Rico earlier that week. The PIES had arrived in San Juan on Sunday 2/17 and been randomly selected for further inspection by the local government's taxing authority called the Hacienda. The shipping company claimed it was unable to have the equipment removed from the port until cleared by the Hacienda. We needed to determine what sort of delay might be involved so that we could decide if it was appropriate to delay departure for a day in order to get the equipment. We eventually determined that it was unlikely to be inspected and released the next day, so we left. As it turned out the PIES equipment was not inspected and released until Thursday 2/28/2013.

Specific summaries of the various data collected include:

1. The autosal used was "Joysey", which functioned normally. Standard water vial 154 was used.

2. The Oxygen titrations were done using the AOML amperometric titration system number 1 and Wheaton dispenser number 4. No problems were reported. There was a new oxygen log sheet implemented for this cruise that worked well and should be used for future cruises (located in the cruise oxy directory).

3. LADCP measurements were taken using a BB 150 kH ADCP down-looking (SN 18145). The CTD frame was equipped with an upward looking 300 kHz ADCP (s/n 14442 stations 0-11 and SN 13493 on 12-76). There were intermittent communication problems with the upward ADCP. Power cycling the ADCP cleared the problem. The cause is unknown at this time but was found on both upward ADCPs.

4. A seapoint fluorometer was interfaced on the CTD, but not processed. Raw fluorometry voltages were passed through the processing to 1 db averages.

5. Five inverted echosounders sites were visited and data telemetered. The PIES at site E did not respond, nor do it send any pulses to sample. It is presumed lost.

3 Inverted Echo-Sounder Operations

No major deployments or recoveries were done on this cruise. Telemetry at the five main mooring sites was conducted (see Table 3). We shipped equipment with us to San Juan that came back from the SAM cruise in December along with some old deck boxes donated to us from PMEL. In addition, we took delivery of the replacement PIES we had ordered and hoped to get that for deployment at site E. That equipment arrived in San Juan on Sunday night 2/17, but was not released from a local tax inspection until 2/28. Hence we decided to do the main telemetry with the UDB9000.

The DS7000 we had with us was missing a channel board so we could only listen to four channels instead of the five we need for PIES and the seven we need for CPIES. We decided to sacrifice 10.00 KHz on the DS7000, which meant we would not receive MSB markers but we would get everything else. Because of the transducer that came with the UDB9000 we had not been able to do telemetry with the UDB9000 alone. This transducer did not transfer enough energy into the water so we could never communicate with our deeper instruments. In the past we relied on the DS7000 to transmit commands at the deeper sites so we could listen with the UDB9000.

Recently, Benthos made oil filled transducers that we received in time to test them on this cruise. We set up the DS7000 alongside the UDB9000 to send the commands in case these new transducers couldn't. Throughout the cruise the deck unit(s) were detecting a 12 kHz noise with a period of about 2 seconds. This was remedied by decreasing the sensitivity of that frequency on the deck unit to -0.5.

Telemetry with the UDB9000 was ultimately completely successful. A test of the ship's transducer failed completely. We could not even hear commands sent from the other deck boxes, nor send commands to the ship's transducer to ping

A summary of each of the telemetry session is provided below.

Table 3: Inverted echo-sounder locations and operation.

IES Site	Type	Latitude	Longitude	Date	Operation
A	PIES	026°31.0′ N	076°49.90′ W	2/27/13	Telemetry
A2	CPIES	026°30.0′ N	076°44.60′ W	2/27/13	Telemetry
B	PIES	026°29.5′ N	076°28.20′ W	2/26/13	Telemetry
C	PIES	026°30.1′ N	076°05.30′ W	2/26/13	Telemetry
D	PIES	026°30.0′ N	075°42.20′ W	2/25/13	Telemetry
E	PIES	026°30.0′ N	071°59.95′ W	2/23/13	Attempted Telemetry

3.1 Site E

Latitude: 26deg 30.000min N (Old, probably dead instrument)
Longitude: 71deg 59.953min W
Depth: 5233 m
Instrumentation: URI 6.1e PIES SN#122
02/23/2013

We were not expecting to communicate with the PIES at this site but we wanted to try in the off chance it was still functioning. The clear command was sent twice without and response from the PIES and the telem command was sent three times without any response. The PIES was not heard to sample during the entire 3.5 hours we were at the CTD site.

3.2 Site D

Latitude: 26deg 30.160min N SN#159 (PIES for telemetry)
Longitude: 75deg 42.330min W
Depth: 4664 m
Instrumentation: URI 6.1e PIES
02/25/2013 23:27

We started sending the clear command with the UDB9000 and DS7000, but we never heard a response from the PIES. We sent the telem command at 26 Feb 2013 00:08:06 from the DS7000 after it sampled and heard a clear response. At this point I thought the new oil filled transducers were not going to work for us and we were going to depend on the DS7000 for telemetry, however the telemetry began shortly. After we downloaded the data I paused the telemetry and restarted it using the UDB9000 to see if we could communicate with the new transducer. It worked.

3.3 Site C

Operation: Telemetry
Latitude: 26deg 30.020min N
Longitude: 76deg 05.550min W
Depth: 4766 m
Instrumentation for telemetry: URI 6.2 PIES SN#281
26 Feb 2013 09:45:50

The telem command 66 sent with the UDB9000. A nice two ping response was seen on the screen. Telemetry started 26 Feb 2013 09:51:46. There were no problems with this download.

3.4 Site B

Operation: Telemetry
Latitude: 26deg 29.480min N
Longitude: 76deg 28.160min W
Depth: 4805 m
Instrumentation: URI 6.1e PIES SN#133 (down-converted CPIES)

This telemetry session went fine except for the bad year days due to 12kHz noise. Kyle thought he was reducing the sensitivity by setting to 0.5 when in fact he was increasing the sensitivity. This made it worse. Fortunately the DS7000 download looks clean so maybe this one can be used instead of the UDB9000 download. This site was downloaded twice.

3.5 Site A2

Operation: Telemetry
Latitude: 26deg 30.022min N
Longitude: 76deg 44.611min W
Depth: 3865 m
Instrumentation: URI 6.2 CPIES SN#248

The telem command was sent on 27 Feb 2013 12:19:09 and telemetry started at 27 Feb 2013 12:21:24. There were no problems at this site.

3.6 Site A

Operation: Telemetry
Latitude: 26deg 30.938min N
Longitude: 76deg 50.036min W
Depth: 1020 m
Instrumentation: URI 6.2 PIES SN#282

The telem command was sent on 27 Feb 2013 16:08:43 and telemetry started on 27 Feb 2013 16:11:32. There were no problems during this download.

4 Standards and Pre-Cruise Calibrations

The CTD/O2 system is a real-time data acquisition system with the data from a Sea-Bird Electronics, Inc. (SBE) 9plus underwater unit transmitted via a conducting cable to a SBE 11plus deck unit. The serial data from the underwater unit is sent to the deck unit in RS-232 NRZ format. The deck unit decodes the serial data and sends it to a personal computer for display and storage in a disk file using Sea-Bird Seasave software (version 7.21d).

The SBE 11plus system transmits data from primary and auxiliary sensors in the form of binary numbers equivalent to the frequency or voltage outputs from those sensors. These are referred to as the raw data. The SBE software performs the calculations required to convert raw data to engineering units.

The SBE 11plus system is electrically and mechanically compatible with the standard, unmodified carousel water sampler, also made by Sea-Bird Electronics, Inc. A modem and carousel interface allows the 11plus system to control the operations of the carousel directly without interrupting the flow of data from the CTD.

The SBE 9plus underwater unit is configured with dual standard modular temperature (SBE 3 plus) and conductivity (SBE 4) sensors, which are mounted near the lower end cap. The conductivity cell entrance is co-planar with the tip of the temperature sensor probe. The pressure sensor is mounted inside the underwater unit main housing. A centrifugal pump module flushes water through sensor tubing at a constant rate independent of the CTD's motion to improve dynamic performance. Dual dissolved oxygen sensors (SBE 43) are added to the pumped sensor configuration following the temperature-conductivity (TC) pair. Also attached to the under water unit are a Wet Labs fluorometer and a Simrad 807 altimeter.

Table 4: Equipment used during ABACO-13/02

Instrument	SN	Stations	Use	Pre-Cruise Calibration	Comment
Sea-Bird SBE 32 24-palce Carousel Water Sampler	3261831 - 0824	0-76			
Sea-Bird SBE9plus CTD	1035	0-76		3/18/11	
Paroscientific Dgiquartz Pressure Sensor	119631	0-76		3/18/11	
Sea-Bird SBE3plus Temperature Sensor	1692	0-76	Primary	10/27/12	
Sea-Bird SBE3plus Temperature Sensor	5140	0-3	Secondary	10/27/12	
Sea-Bird SBE3plus Temperature Sensor	4799	4-76	Secondary	10/27/12	
Sea-Bird SBE4C Conductivity Sensor	1335	0-76	Primary	10/26/12	
Sea-Bird SBE4C Conductivity Sensor	2973	0-76	Secondary	10/26/12	
Sea-Bird SBE43 Dissolved Oxygen Sensor	0140	0-76	Primary	07/10/12	
Sea-Bird SBE43 Dissolved Oxygen Sensor	1348	0-76	Secondary	07/3/12	
Wet Labs Fluorometer	472	0-76			
Sea-Bird SBE5T Pump	1027	None	Primary		Pump slow
Sea-Bird SBE5T Pump	5946	0-76	Primary		worked ok
Sea-Bird SBE5T Pump	1072	0-1	Secondary		Pump slow
Sea-Bird SBE5T Pump	1227	2	Secondary		Pump slow
Sea-Bird SBE5T Pump	3953	3-76	Secondary		worked ok
Simrad 807 Altimeter		0-76	range - 280m		4.8 scale
RDI LADCP - 150 kHz Broad Band	18145	0-76	Downward		
RDI LADCP - 300 kHz Workhorse	14442	0-11	Upward		Stopped communicating
RDI LADCP - 300 kHz Workhorse	15329	None	Upward		Tested, but was dead
RDI LADCP - 300 kHz Workhorse	13493	12-76	Upward		

4.1 Conductivity

The flow-through conductivity-sensing element is a glass tube (cell) with three platinum electrodes (Seabird model SBE 4). The resistance measured between the center electrode and the end electrode pair is determined by the cell geometry and the specific conductance of the fluid within the cell, and controls the output frequency of a Wein Bridge circuit. The sensor has a frequency output of approximately 3 to 12 kHz corresponding to conductivity from 0 to 7 Siemens/meter (0 to 70 mmho/cm). The SBE 4 has a typical accuracy/stability of ± 0.0003 S·m^{-1}/month and resolution of 0.00004 S·m^{-1} at 24 scans per second.

Two conductivity sensors were used during ABACO-13/02, serial numbers (s/n) 1335 and 2973. Pre-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue, Washington during October 2012. The coefficients shown in Table 5 were entered into Seasave using the configuration file.

Conductivity calibration certificates show an equation containing the appropriate pressure-dependent correction term to account for the effect of hydrostatic loading (pressure) on the conductivity cell:

$$C\ (Siemens/meter) = \frac{(g + h * f^2 + i * f^3 + j * f^4)}{[10 * (1 + c_{t_{cor}} * t + c_{p_{cor}} * p)]}$$

where g, h, i, j, $c_{t_{cor}}$, and $c_{p_{cor}}$ are the calibrations coefficients shown above, f is the instrument frequency (kHz), t is the water temperature (degrees Celsius), and p is the water pressure (dbar). SEASAVE® automatically implements this equation.

Table 5: Calibration coefficients for the conductivity sensors.

s/n 1335 October 26, 2012	s/n 2973 October 26, 2012
g = -3.97297527e+00	g = -9.96027889e+00
h = 5.02261978e+01	h = 1.34616352e+00
i = -8.00323481e-05	i = 5.85658920e-05
j = 3.20697633e-05	j = 6.74097241e-05
CPcor = -9.5700e-08	CPcor = -9.5700e-08
CTcor = 3.2500e-06	CTcor = 3.2500e-06

4.2 Temperature

The temperature-sensing element is a glass-coated thermistor bead, pressure protected by a stainless steel tube. The sensor output frequency ranges from 5–13 kHz corresponding to temperature from -5 to 35°C. The output frequency is inversely proportional to the square root of the thermistor resistance, which controls the output of a patented Wien Bridge circuit. The thermistor resistance is exponentially related to temperature. The SBE 3 thermometer has a typical accuracy/stability of ±0.004°C per year and resolution of 0.0003°C at 24 samples per second. The SBE 3 thermometer has a fast response time of 0.070 seconds.

Three temperature sensors (SBE 3plus) were used during ABACO-13/02, serial numbers (s/n) 1692, 5140 and 4799. Pre-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue, Washington during October 2012. The following coefficients (Table 6) were entered into SEASAVE® using the configuration file. SEASAVE® automatically implements the equation below and converts between ITS-90 and IPTS-68 temperature scales as desired. The Temperature (ITS-90) is computed from g, h, i, j and f_0 and f is the instrument frequency (kHz) coefficients as follows:

$$T\,(^\circ C) = \frac{1}{\left\{g + h * \left[\ln\left(\frac{f_0}{f}\right)\right] + i * \left[\ln^2\left(\frac{f_0}{f}\right)\right] + j * \left[\ln^3\left(\frac{f_0}{f}\right)\right]\right\}} - 273.15$$

Table 6: Calibration coefficients for the temperature sensors.

s/n 1692 October 15, 2012	s/n 5140 October 15, 2012	s/n 4799 October 15, 2012
g = 4.80182570e-03	g = 4.36477740e-03	g = 4.36402402e-03
h = 6.71808457e-04	h = 6.41228274e-04	h = 6.37080523e-04
i = 2.55249450e-05	i = 2.24638617e-05	i = 2.09292929e-05
j = 2.00931191e-06	j = 2.11508151e-06	j = 1.76092472e-06
f_0 = 1000.0	f_0 = 1000.0	f_0 = 1000.0

4.3 Pressure

The Paroscientific series 4000 Digiquartz high pressure transducer uses a quartz crystal resonator whose frequency of oscillation varies with pressure induced stress measuring changes in pressure as small as 0.01 parts per million with an absolute range of 0 to 10,000 psia (0 to 6885 dbar). Repeatability, hysteresis and pressure conformance are 0.002% of full-scale. The nominal pressure frequency (0 to full scale) is 34 to 38 kHz. The nominal temperature frequency is 172 kHz ± 50 ppm/°C.

The pressure sensor utilized during ABACO-13/02 was s/n 1035. Pre-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue, Washington on March

18, 2011. The following coefficient (Table 7) were entered into SEASAVE® using the configuration file:

Pressure coefficients are first formulated into:

$$\begin{aligned} c &= c_1 + c_2 * U + c_3 * U^2 \\ d &= d_1 + d_2 * U \\ t_0 &= t_1 + t_2 * U + t_3 * U^2 + t_4 * U^3 + t_5 * U^4 \end{aligned}$$

where U is temperature in degrees Celsius. Pressure is computed according to:

$$P\ (psia) = c * \left(1 - \frac{t_0^2}{t}\right) * \left[1 - d * \left(1 - \frac{t_0^2}{t}\right)\right]$$

where t is pressure period (μs). SEASAVE® automatically implements this equation.

Table 7: Calibration coefficients for the pressure sensor.

s/n 1035
March 18, 2011
c_1 = -4.373825e+04
c_2 = 4.277260e-01
c_3 = 1.413200e-02
d_1 = 3.420800e-02
d_2 = 0.000000e+00
t_1 = 2.988725e+01
t_2 = -1.949980e-04
t_3 = 4.187800e-06
t_4 = 4.590370e-09
t_5 = 0.000000e+00
Slope = 1.00001000
Offset = -0.04860
AD590M = 1.279900e-02
AD590B = -9.386550e+00

4.4 Dissolved Oxygen

The SBE 43 dissolved oxygen sensor uses a membrane polarographic oxygen detector (MPOD). Oxygen sensors determine the dissolved oxygen concentration by counting the number of oxygen molecules per second (flux) that diffuse through a membrane. By knowing the flux of oxygen and the geometry of the diffusion path, the concentration of oxygen can be computed. The permeability of the membrane to oxygen is a function of temperature and ambient pressure. In order to minimize the errors in the oxygen measurement due to the

temperature differences between the water and the oxygen sensor, a temperature compensation is calculated using a temperature measured near the active surface of the sensor. The interface electronics output voltages proportional to the temperature-compensated oxygen current. Initial computation of dissolved oxygen in engineering units is done in the software. The range for dissolved oxygen is 120% of surface saturation in all natural waters, fresh and salt, and the nominal accuracy is 2% of saturation.

Under extreme pressure, changes can occur in gas permeable Teflon membranes that affect their permeability characteristics. Some of these changes (plasticization and amorphous/crystalinity ratios) have long time constants and depend on the sensor's time-pressure history. These slow processes result in hysteresis in long, deep casts. The hysteresis correction algorithm operates through the entire data profile and corrects the oxygen voltage values for changes in membrane permeability as pressure varies. At each measurement, the correction to the membrane permeability is calculated based on the current pressure and how long the sensor spent at previous pressures.

Sea-Bird has implemented an optional hysteresis correction for dissolved oxygen data. The correction algorithm requires a continuous time series of data, with no temporal data gaps (although a continuous time series is necessary, a constant sampling interval is not required). Prior to processing, do not remove any data from the downcast or upcast (if to be used), other than a surface soak at the beginning of the downcast.

Oxygen sensors 0140 and 1348 were used during ABACO-13/02. The following oxygen coefficients (Table 8) were entered into SEASAVE® using the configuration file:

Table 8: Calibration coefficients for the dissolved oxygen sensors.

s/n 0140 July 10, 2012	s/n 1348 July 03, 2012
Soc = .48940	Soc = 0.55143e
Voffset = -0.5047	Voffset = -0.5114
Tau20 = 1.07	Tau20 = 1.34
A = -3.2968e-03	A = -3.6914e-03
B = 1.5058e-04	B = 1.7009e-04
C = -2.6774e-06	C = -3.0484e-06
$E_{nominal}$ = 0.036	$E_{nominal}$ = 0.036

The use of these constants in linear equations of the form $I = mV + b$ and $T = kV + c$ yield sensor membrane current and temperature (with maximum error of about 0.5 °C) as a function of sensor output voltage.

Dissolved oxygen concentration is calculated according to:

$$O\ (ml/l) = \{Soc * (V + V_{offset} + tau(T,S) * \frac{\delta v}{\delta t}) + p1 * station\}$$
$$*(1.0 + A * T + B * T^2 + C * T^3) * OXSAT(T,S) * e^{E*(\frac{P}{K})}$$

where Soc, V_{offset}, tau, A, B, C, E and $p1$ are the calibration coefficients shown above and V is the instrument voltage (V). T, S and P are the temperature, salinity and pressure measured by the CTD. K is the temperature in the absolute scale (K), $\delta v/\delta t$ is the oxygen voltage time derivative, *station* is the station number, and $OXSAT$ is the oxygen saturation value calculated according to (Weiss, 1970):

$$OXSAT(\theta, S) = \exp\left\{A_1 + A_2 * \left(\frac{100}{\theta}\right)\right.$$
$$+A_3 * \ln\left(\frac{\theta}{100}\right) + A_4 * \left(\frac{\theta}{100}\right)$$
$$\left. + S * \left[B_1 + B_2 * \left(\frac{\theta}{100}\right) + B_3 * \left(\frac{\theta}{100}\right)^2\right]\right\}$$

where θ is the absolute temperature (K); and

$$\begin{array}{rrrr} A_1 = & -173.4292 & B_1 = & -0.033096 \\ A_2 = & 249.6339 & B_2 = & 0.014259 \\ A_3 = & 143.3483 & B_3 = & -0.00170 \\ A_4 = & -21.8492. & & \end{array}$$

SEASAVE® automatically implements this equation.

The hysteresis correction is calculated, using the oxygen voltages, with the following algorithm:

$$D = 1 + H_1 * (e^{\left(\frac{P(i)}{H2}\right)} - 1)$$
$$C = e(-1 * \left(\frac{Time(i) - Time(i-1))}{H3}\right)$$
$$O_V(i) = O_{volt}(i) + V_{offset}$$
$$O_{newvolts}(i) = a * \frac{a}{D}$$
$$O_{finalvolts}(i) = O_{newvolts}(i) - V_{offset}$$

Where:

i = indexing variable (must be a continuous time series to work; can be performed on bin averaged data), where i = 1:end (end is largest data index point plus 1).

$P(i)$ = pressure (decibars) at index point i .
$Time(i)$ = time (seconds) from start of index point i.
$O_{volt}(i)$ = SBE 43 oxygen voltage output directly from sensor, with no calibration or hysteresis corrections, at index point i.
V_{offset} = correction for an electronic offset that is applied to voltage output of sensor. V_{offset} correction is always negative (see factory calibration sheet for this coefficient). V_{offset} is added to raw voltages prior to hysteresis correction. At end of hysteresis corrections, V_{offset} is removed prior to data conversion using SBE 43 calibration equation (see $O_{finalvolts}(i)$).
$O_V(i)$ = dissolved oxygen voltage value with V_{offset} correction (made prior to hysteresis correction) at index point i.
D and C are temporary variables used to simplify expression in processing loop.
$H1$ = amplitude of hysteresis correction function. Default = -0.033, range = -0.02 to -0.05 (varies from sensor to sensor).
$H2$ = function constant or curvature function for hysteresis. Default = 5000.
$H3$ = time constant for hysteresis (seconds). Default = 1450, range = 1200 to 2000 (varies from sensor to sensor).
$O_{newvolts}(i)$ = hysteresis-corrected oxygen value at index point i.
$O_{finalvolts}(i)$ = hysteresis-corrected oxygen value at index point i with V_{offset} removed.

This step is necessary prior to computing the oxygen concentration using the SBE 43 calibration equation.

4.5 Fluorometer

The fluorometer is an optical sensor used to detect chlorophyll-a fluorescence. The fluorescence signal is an indicator of concentrations of chlorophyll and an active phytoplankton biomass. This allows for the tracking of the abundance and variability of biology in the water column. The fluorometer data collected is not processed, but raw voltages are passed through the Seabird Data Processing program. The raw voltages are not displayed here, but are available as part of the 1db pressure averaged data.

5 Data Acquisition

CTD/rosette casts were performed with a package consisting of a 24-place, 10-liter rosette frame (AOML's green frame), a 24-place water sampler (SBE32) and 24, 10-liter Bullister-style bottles. This package was deployed on all stations/casts. Underwater electronic components consisted of a Sea-Bird Electronics (SBE) 9plus CTD with dual pumps and the following sensors: dual temperature (SBE3), dual conductivity (SBE4), dual dissolved oxygen (SBE43), and a Simrad 807 altimeter. The other underwater electronic components consisted of two RDI LADCPs and a Wet Labs ECO fluorometer.

The CTD's supplied a standard Sea-Bird format data stream at a data rate of 24 frames/second. The SBE 9plus CTD was connected to the SBE32 24-place pylon providing for single-conductor sea cable operation. Power to the SBE 9plus CTD, SBE32 pylon, auxiliary sensors, and altimeter was provided through the sea cable from the SBE 11plus deck unit in the computer lab. The rosette system was suspended from a UNOLS-standard three-conductor 0.322" electro-mechanical sea cable.

The CTD was mounted vertically attached to the bottom center of the rosette frame. All SBE4 conductivity and SBE3 temperature sensors and their respective pumps were mounted vertically as recommended by SBE outboard of the CTD. The CTD was outfitted with dual pumps. Primary temperature, conductivity, and dissolved oxygen were plumbed on one pump circuit and secondary temperature, conductivity, and dissolved oxygen on the other. Pump exhausts were attached to outside corners of the CTD cage and directed downward. The altimeter was mounted on the inside of a support strut adjacent to the bottom frame ring. The LADCPs were vertically mounted inside the bottle rings with one 150 kHz pointing down, the other 300 kHz transducer pointing up. The R/V Ronald H. Brown's aft CTD winch was used with the 24-place 10-liter rosette for all station/casts.

O-rings were changed as necessary and bottle maintenance was performed each day to insure proper closure and sealing. Valves were inspected for leaks and repaired or replaced as needed.

5.1 System Problems

- During the test cast it became apparent that the primary pump, SN 1027, was behaving slow at the surface. This was replaced with pump SN 5946. During the station 1 the secondary pump, SN 1072, was determined to be slow at the surface. This was replaced with pump SN 1227. During station 2 the secondary pump replacement showed little improvement. This was replaced with pump SN 3953.

- Replaced the secondary temperature sensor, SN 5140, with temperature sensor, SN 4799 after station 3. The secondary temperature sensor, SN 5140, had a pressure dependence causing temperature difference, T1 T2, of $\approx$ .002 psu.

- The upward looking ADCP, SN 14442, stopped responding after station 11. The first replacement ADCP, SN 15329, was dead and was replaced with a second replacement ADCP, SN 13493.

5.2 Data Acquisition

The CTD data acquisition system consisted of an SBE 11plus (V1) deck unit and a networked generic PC workstation running Windows 2000. SBE Seasave software version 7.21d was used for data acquisition and to close bottles on the rosette.

The console watch initiated CTD deployments after the ship stopped on station. The watch maintained a console operations log containing a description of each deployment, a record of every attempt to close a bottle and any pertinent comments.

The deck watch leader directed the winch operator to raise the package, the squirt boom and rosette were extended outboard, and the package quickly lowered into the water and submerged to 10 meters of wire out. No tag lines were necessary for either deployments or recoveries during this cruise. The CTD sensor pumps were configured with a 60 second startup delay. The CTD console operator waited for the CTD sensor pumps to turn on, waited an additional 60 seconds for sensors to stabilize (all together about 2 minutes), then directed the winch operator to bring the package close to the surface, pause for typically 10 seconds, hitting "Mark Scan" and begin the descent. The profiling rate was no more than 30 m/min to 50 m, no more than 45 m/min to 200 m, and no more than 60 m/min deeper than 200 m depending on sea cable tension and the sea state.

The console watch monitored the progress of the deployment and quality of the CTD data through interactive graphics and operational displays. Additionally, the watch created a sample log for the deployment that would be later used to record the correspondence between rosette bottles and analytical samples taken. The altimeter channel, CTD pressure, wire-out and bathymetric depth were all monitored to determine the distance of the package from the bottom, usually allowing a safe approach to within 10 m.

On the up cast, the winch operator was directed to stop at each bottle trip depth. The CTD console operator waited 30 seconds before tripping a bottle using a "point and click" graphical trip button. The data acquisition system responded with trip confirmation messages and the corresponding CTD data in a rosette bottle trip window on the display. All tripping attempts were noted on the console log. The console watch then directed the winch operator to raise the package up to the next bottle trip location.

After the last bottle was tripped, the console watch directed the deck watch to bring the rosette on deck. Once on deck, the console watch terminated the data acquisition, turned off the deck unit, and assisted with rosette sampling.

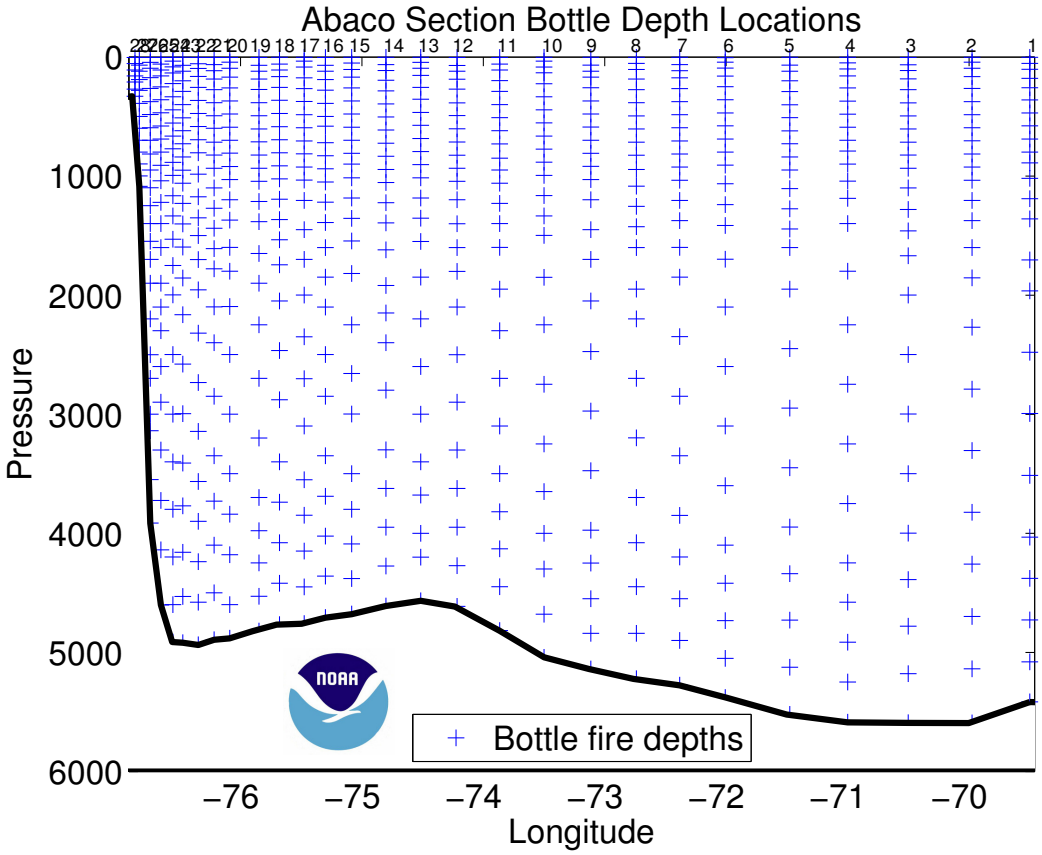

Figure 2: Bottle locations for 26.5°N Deep Western Boundary Current section east of Abaco Island.

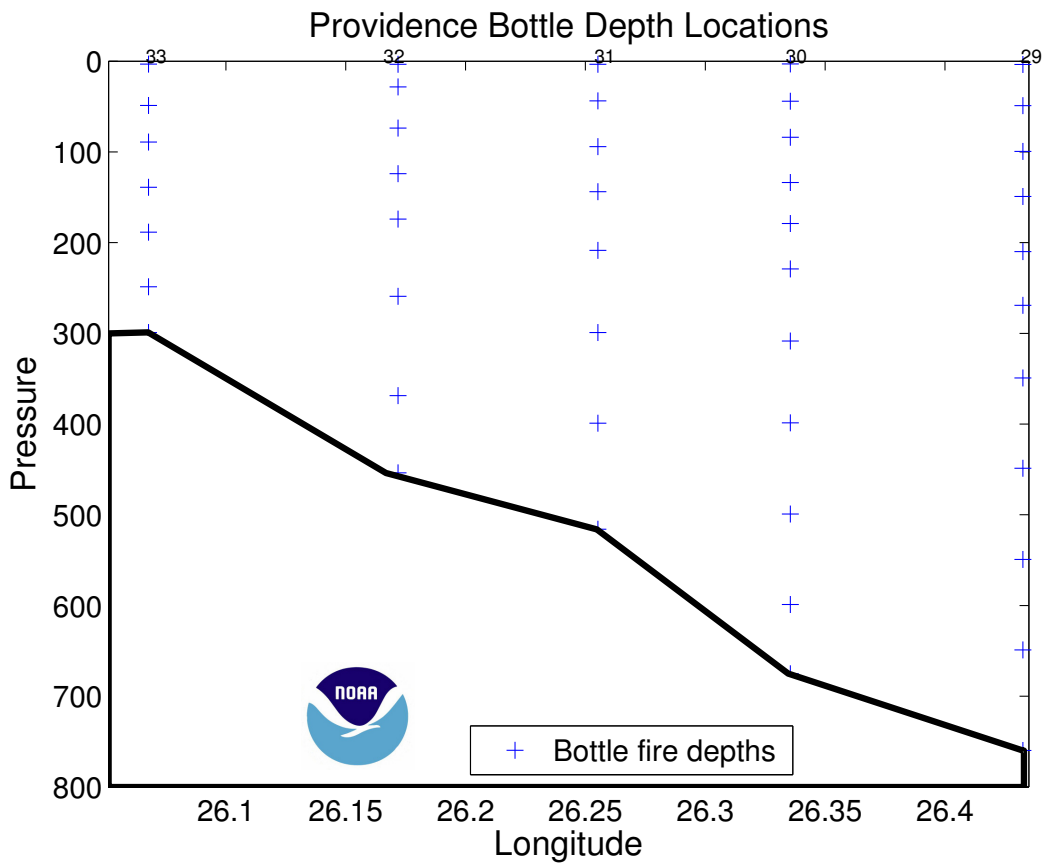

Figure 3: Bottle locations for along the Northwest Providence Channel section.

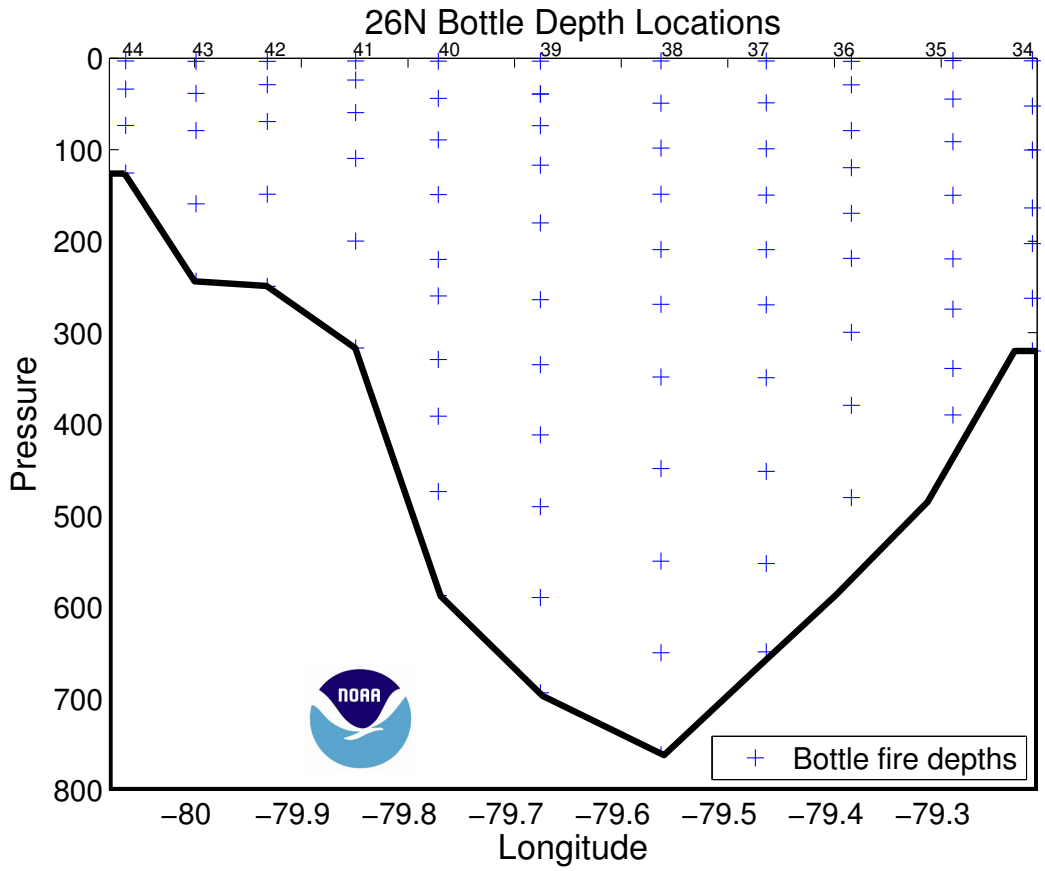

Figure 4: Bottle locations for 26°N section in the Florida Straits.

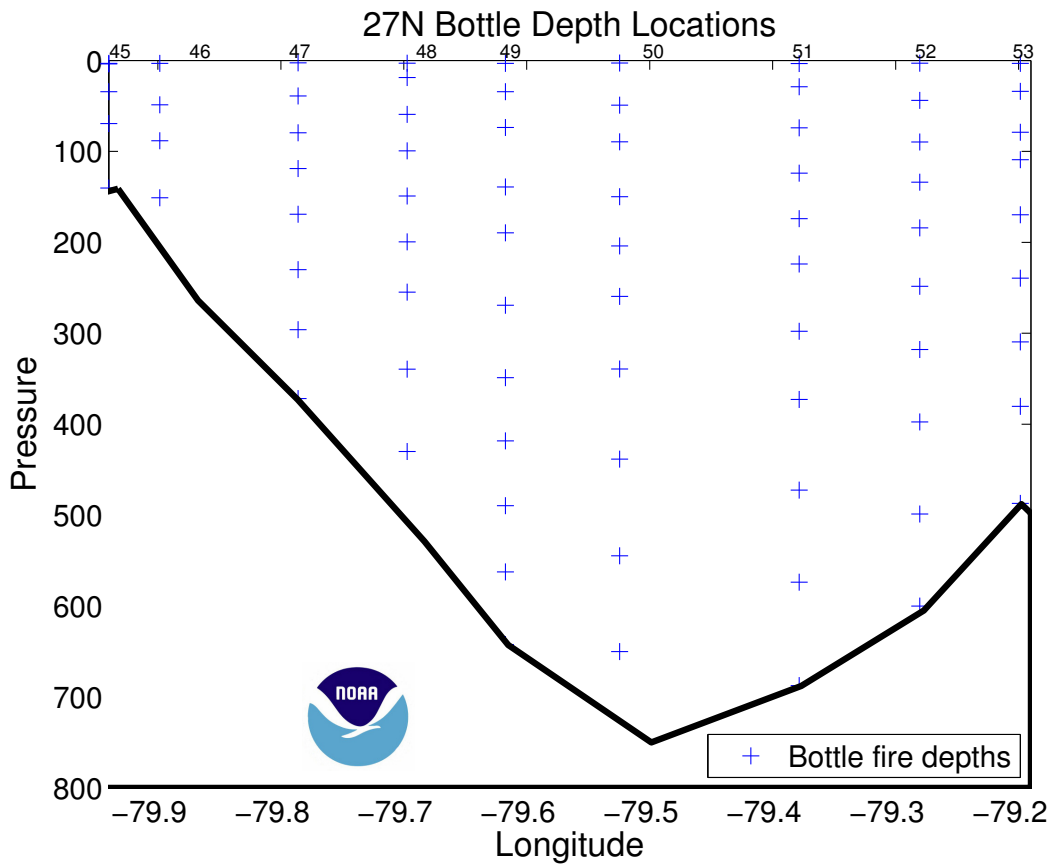

Figure 5: Bottle locations for 27°N section in the Florida Straits.

5.3 Shipboard CTD Data Processing

Shipboard CTD data processing was performed automatically at the end of each deployment using SEABIRD SBE Data Processing version 7.21h and AOML Matlab processing software. The raw CTD data and bottle trips acquired by SBE Seasave on the Windows 2000 workstation were copied onto the CTD-PROC workstation, and processed to a 1-dbar series and a 1-second time series. Bottle trip values were extracted and a 1-decibar (dbar) down cast pressure series created.

Raw data are acquired from the instruments and are stored unmodified. The conversion module DATCNV uses the instrument configuration and pre-cruise factory calibration coefficients to create a converted engineering unit data file that is utilized by all SBEDataProc® post processing modules. Unless otherwise noted, all calibration parameters given are factory default values recommended by Sea Bird Electronics, Inc. The following is the SBEDataProc® processing module sequence and specifications for primary calibrated data (1 dbar averages) using the following routines in order for reduction of CTD/O2 data from this cruise:

1. DATCNV converts raw data into engineering units and creates a .ROS bottle file. Both down and up casts were processed for scan, elapsed time(s), depth, pressure, t0 ITS-90 C, t1 ITS-90 C, c0 S/cm, c1 S/cm, salinity (PSU), salinity 2 (PSU), oxygen voltage V, oxygen 2 voltage V, altimeter, optical sensor, oxygen umol/kg, oxygen 2 umol/kg, oxygen mll/l, oxygen 2 ml/l, oxygen dv/dt, oxygen dv/dt 2, latitude, and longitude. MARKSCAN was used to determine the number of scans acquired on deck and while priming the system to exclude these scans from processing.

2. ALIGNCTD aligns temperature, conductivity, and oxygen measurements in time relative to pressure to ensure that derived parameters are made using measurements from the same parcel of water. Primary and secondary conductivity and were automatically advanced by 0.073 seconds. Primary and secondary oxygen were advanced by 2.063 seconds.

3. BOTTLESUM creates a summary of the bottle data. Bottle position, date, and time were output automatically. Pressure, temperature, conductivity, salinity, oxygen voltage and preliminary oxygen values were averaged over a 5 second interval.

4. WILDEDIT computes the standard deviation of 100 point bins, and then makes two passes through the data. The first pass flags points that differ from the mean by more than 2 standard deviations. A new standard deviation is computed excluding the flagged points and the second pass marks bad values greater than 20 standard deviations from the mean. For this data set, data were kept within a distance of 100 of the mean (i.e., all data).

5. FILTER applies a low pass filter to pressure with a time constant of 0.15 seconds. In order to produce zero phase (no time shift), the filter is first run forward through the file and then run backwards through the file.

6. CELLTM uses a recursive filter to remove conductivity cell thermal mass effects from measured conductivity. In areas with steep temperature gradients the thermal mass correction is on the order of 0.005 PSS-78. In other areas the correction is negligible. The value used for the thermal anomaly amplitude (alpha) was 0.03°C. The value used for the thermal anomaly time constant (1/beta) was 7.0°C.

7. LOOPEDIT removes scans associated with pressure slowdowns and reversals. If the CTD velocity is less than 0.25 m/s or the pressure is not greater than the previous maximum scan, the scan is omitted.

8. DERIVE uses 1 dbar averaged pressure, temperature, and conductivity to compute primary and secondary salinities. Oxygen voltage is used to calculate oxygen concentrations.

9. BINAVG averages the data into 1 dbar bins. Each bin is centered on an integer pressure value, e.g., the 1 dbar bin averages scans where pressure is between 0.5 dbar and 1.5 dbar. There is no surface bin. The number of points averaged in each bin is included in the data file.

10. STRIP removes the computed oxygen variable.

11. TRANS converts the binary data file into ASCII format.

12. SPLIT separates the cast into upcast and downcast values.

Package slowdowns and reversals owing to ship roll can move mixed water in tow to in front of the CTD sensors and create artificial density inversions and other artifacts. In addition to Seasoft module LOOPEDIT, a program computes values of density locally referenced between every 1 dbar of pressure to compute N^2 and linearly interpolates temperature, conductivity, and oxygen voltage over those records where N^2 is less than or equal to -1 x 10^{-5} s^{-2}. These data were retained but flagged as questionable in the final WOCE formatted files.

Final calibrations are applied to delooped data files. ITS-90 temperature, salinity, and oxygen are computed, and WOCE quality flags are created.

CTD data were examined at the completion of each deployment for clean corrected sensor response and any calibration shifts. As bottle salinity and oxygen results became available, they were used to refine shipboard conductivity and oxygen sensor calibrations.

A total of 77 casts were made.

5.4 CTD Calibration Procedures

Laboratory calibrations of the CTD pressure, temperature, conductivity, and oxygen sensors were all performed at SBE. The calibration dates are listed in Table 4.

Secondary temperature, conductivity and dissolved oxygen (T2, C2 and DO2) sensors served as calibration checks for the reported primary sensors. During the cruise, it was determined that the primary conductivity sensory and secondary oxygen sensor behaved more stably.

In-situ salinity and dissolved O2 check samples collected during each cast were used to calibrate the conductivity and dissolved O2 sensors.

Only two sets of sensor combinations were used during the cruise as listed in Table 4.

5.4.1 Salinity Analysis

A single Guildline Autosal, model 8400B (S/N 60843, nicknamed Joysey), located in salinity analysis room, was used for all salinity measurements. The salinometer readings were logged on a computer using Ocean Scientific International's logging hardware and software. The Autosal's water bath temperature was set to 24°C, which the Autosal is designed to automatically maintain. The laboratory's temperature is typically set and maintained to just below 24°C, to help further stabilize reading values and improve accuracy. Salinity analyses were performed after samples had equilibrated to laboratory temperature, usually at least 12 hours after collection. The salinometer was standardized for each group of samples analyzed (usually 2 casts and up to 50 samples) using two bottles of standard seawater: one at the beginning and end of each set of measurements. The salinometer output was logged to a computer file. The software prompted the analyst to flush the instrumentÕs cell and change samples when appropriate. For each sample, the salinometer cell was initially flushed at least 3 times before a set of conductivity ratio readings were taken.

IAPSO Standard Seawater Batch P-154 was used to standardize all casts (Table 9).

The salinity samples were collected in 200 *ml* Kimax high-alumina borosilicate bottles that had been rinsed at least three times with sample water prior to filling. The bottles were sealed with custom-made plastic insert thimbles and Nalgene screw caps. This assembly provides very low container dissolution and sample evaporation. Prior to sample collection,

inserts were inspected for proper fit and loose inserts replaced to insure an airtight seal. Laboratory temperature was also monitored electronically throughout the cruise. PSS-78 salinity [UNES81] was calculated for each sample from the measured conductivity ratios. The offset between the initial standard seawater value and its reference value was applied to each sample. Then the difference (if any) between the initial and final vials of standard seawater was applied to each sample as a linear function of elapsed run time. The corrected salinity data was then incorporated into the cruise database. When duplicate measurements were deemed to have been collected and run properly, they were averaged and submitted with a quality flag of 6. The total number of salinity samples collected from the rosette was 890 including the duplicate samples. A duplicate sample was drawn from each cast to determine total analytical precision.

The running standard calibration values are shown in Figure 6. Through the course of the 15 day cruise, the autosal standards changed by 0.0003 in conductivity ratio (about 0.008 in salinity). The precision of the salinity measurements during the cruise were estimated by using the duplicate samples. From the 31 duplicate samples (Table 10), which corresponds to 3.5% of the total samples collected during this cruise, the average residual for the duplicates was -0.00004 PSU with and standard deviation of 0.001 PSU (Figure 7).

Table 9: Nominal values for the batches of IAPSO standard seawater.

P-154
Use By: October 2014
K15: 0.99990
Salinity: 34.996

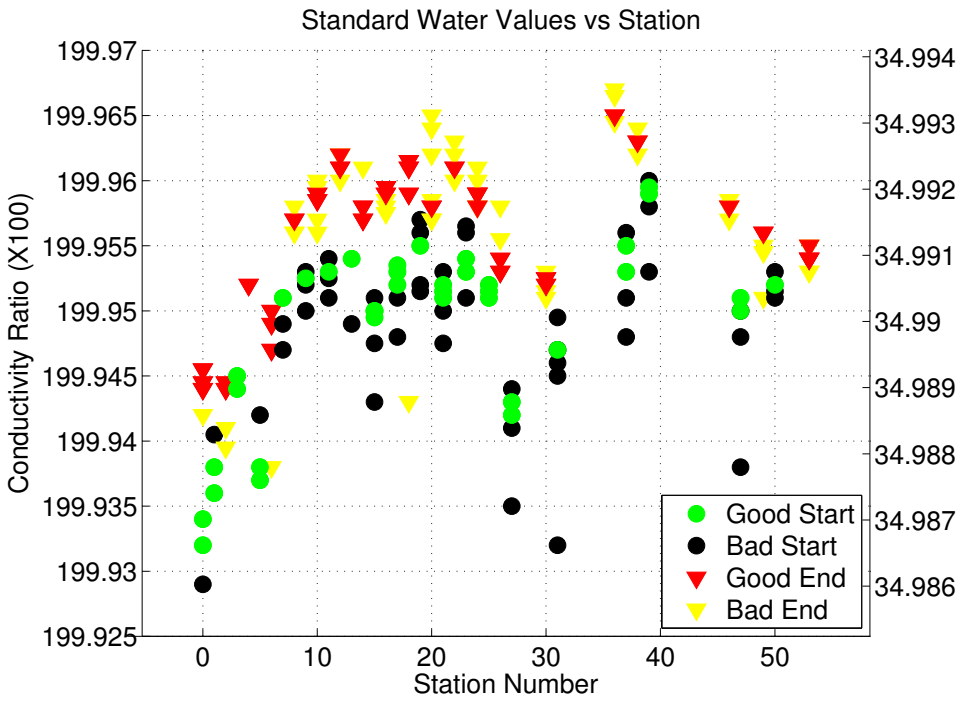

Figure 6: Standard vial calibrations throughout the cruise.

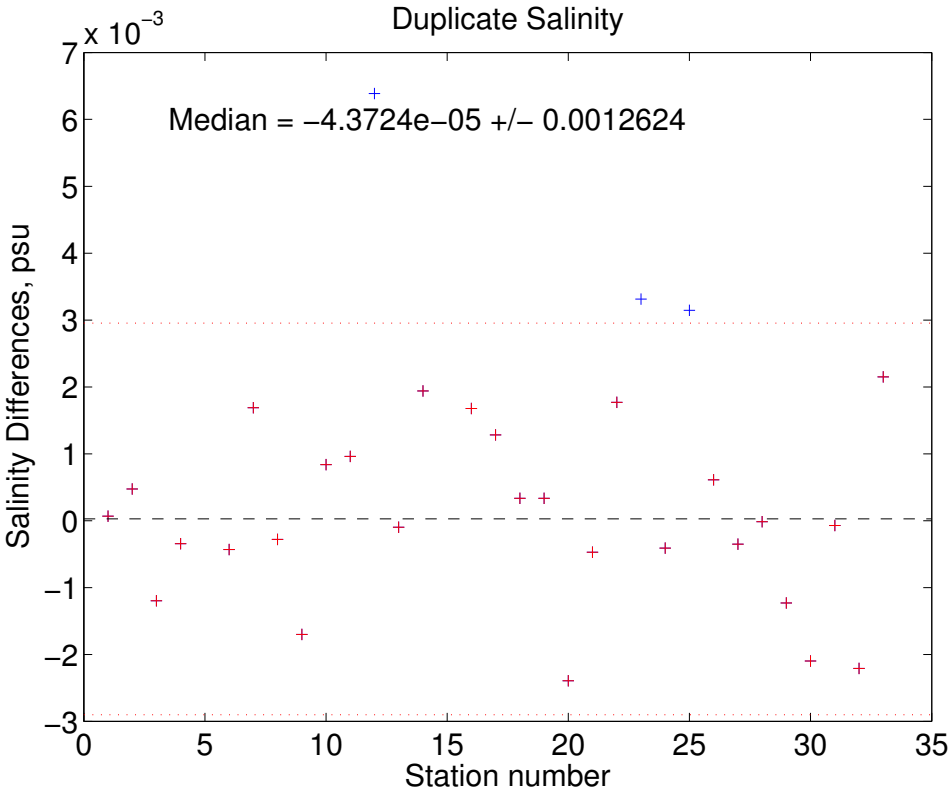

Figure 7: Salinity residuals of the duplicate samples.

Table 10: Duplicate salinity samples collected during the ABACO cruise.

Station	Niskin	Salinity1	Salinity2	Differences
1	20	36.629	36.629	-0.000
2	19	36.527	36.528	-0.000
3	4	34.887	34.886	0.001
4	13	35.076	35.076	0.000
6	1	34.855	34.855	0.000
7	9	34.969	34.971	-0.002
8	4	34.888	34.888	0.000
9	10	34.983	34.981	0.002
10	9	34.972	34.972	-0.001
11	7	34.940	34.941	-0.001
12	17	35.990	35.997	-0.006
13	1	34.871	34.870	0.000
14	3	34.887	34.889	-0.002
16	9	34.966	34.968	-0.002
17	1	34.872	34.873	-0.001
18	2	34.880	34.881	-0.000
19	1	34.865	34.866	-0.000
20	5	34.898	34.895	0.002
21	1	34.876	34.876	0.000
22	4	34.890	34.891	-0.002
23	1	34.878	34.882	-0.003
24	1	34.880	34.879	0.000
25	1	34.883	34.887	-0.003
26	1	34.887	34.887	-0.001
27	1	35.036	35.036	0.000
28	4	36.625	36.625	0.000
29	3	35.855	35.854	0.001
30	2	35.515	35.513	0.002
31	1	35.859	35.859	0.000
32	2	36.429	36.427	0.002
33	1	36.560	36.562	-0.002

5.4.2 Oxygen Analysis

Dissolved oxygen analyses were performed with an automated titrator using amperometric end-point detection (Langdon, 2010). Sample titration, data logging, and graphical display were performed with a PC running a LabView program written by Ulises Rivero of AOML. Thiosulfate was dispensed by a 2 *ml* Gilmont syringe driven with a stepper motor controlled by the titrator. Tests in the lab were performed to confirm that the precision and accuracy of the volume dispensed were comparable or superior to the Dosimat 665. The whole-bottle titration technique of Carpenter (1965), with modifications by Culberson et al. (1991), was used. Four replicate 10 *ml* iodate standards were run every 3-4 days. The reagent blank determined as the difference between V1 and V2, the volumes of thiosulfate required to titrate 1-*ml* aliquots of the iodate standard, was determined eight times during the cruise. This method was found during pre-cruise testing to produce a more reproducible blank value than the value determined as the intercept of a standard curve.

Dissolved oxygen samples were drawn from Niskin bottles into calibrated 125-150 *ml* iodine titration flasks using silicon tubing. Bottles were rinsed three times and filled from the bottom, overflowing three volumes while taking care not to entrain any bubbles. 1 *ml* of MnCl2 and 1 *ml* of NaOH/NaI were added immediately after drawing the sample was concluded using a ThermoScientific REPIPET II. The flasks were then stoppered and shaken well. Deionized water (DIW) was added to the neck of each flask to create a water seal. The total number of oxygen samples collected from the rosette was 886 including the duplicate samples. The samples were stored in the lab in plastic totes at room temperature for 1.5 hours before analysis. Thiosulfate normality was calculated at the laboratory temperature for each run. The CTD temperatures were used to calculate $umol/kg$ concentrations. The data were incorporated into the cruise database shortly after analysis.

The dispenser used for the standard solution (SOCOREX Calibrex 520) and the burette were calibrated gravimetrically just before the cruise. Oxygen flask volumes were determined gravimetrically with degassed deionized water at AOML. The correction for buoyancy was applied.

The precision of the oxygen measurements during the cruise were estimated by using the duplicate samples. From the 30 duplicate samples (Table 11), which corresponds to 3.3% of the total samples collected during this cruise, the average residual for the duplicates was -0.03 $umol/kg$ with and standard deviation of 0.17 $umol/kg$ (Figure 8).

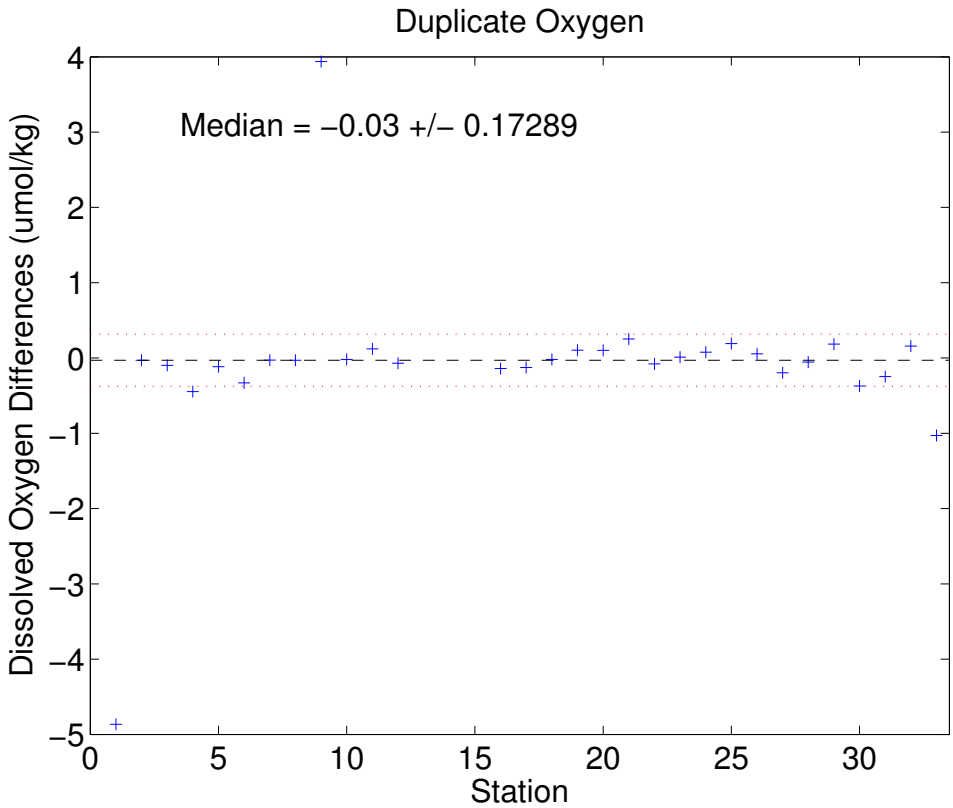

Figure 8: Oxygen residuals of the duplicate samples .

Table 11: Duplicate dissolved oxygen samples collected during the ABACO cruise (values in $umol/kg$).

Station	Niskin	Oxygen1	Oxygen2	Differences
1	24	223.4	218.5	4.865
2	1	259.7	259.7	0.030
3	1	258.4	258.3	0.098
4	1	259.3	258.8	0.447
5	2	267.5	267.4	0.115
6	1	258.3	258.0	0.331
7	3	271.7	271.6	0.027
8	4	274.1	274.0	0.030
9	3	270.8	274.7	-3.937
10	1	262.2	262.1	0.020
11	5	275.5	275.7	-0.121
12	15	142.9	142.9	0.069
16	6	274.1	274.0	0.139
17	1	264.6	264.5	0.127
18	2	270.3	270.3	0.019
19	1	262.6	262.7	-0.103
20	1	265.8	265.9	-0.101
21	1	266.6	266.8	-0.252
22	8	269.5	269.4	0.078
23	1	267.6	267.7	-0.011
24	1	269.7	269.8	-0.077
25	1	271.5	271.7	-0.191
26	1	273.3	273.3	-0.056
27	1	237.5	237.3	0.196
28	1	195.0	194.9	0.054
29	3	162.7	162.9	-0.184
30	2	138.4	138.1	0.371
31	1	146.4	146.2	0.247
32	2	194.6	194.7	-0.159
33	1	175.8	174.7	1.030

6 Post-Cruise Calibrations

Post cruise sensor calibrations were done at Sea-Bird Electronics, Inc. (Table 12 - 13). Primary conductivity and secondary oxygen were used for final calibrations..

In-situ salinity and dissolved oxygen check samples collected during each cast were used to calibrate the conductivity and dissolved oxygen sensors.

Two sensor combinations were used during the cruise as listed in Table 14 . Primary T/C pair 1692/1335 were selected for final data reduction (Figure 12 & 13). The secondary oxygen sensor was used for the final data reduction, s/n 1348. In addition to the Seasoft processing modules, a group of Matlab script files called AOML/CTDCAL Toolbox were used. These scripts were based on earlier works of different groups as well as in modern statistical tools. They cover all the steps of the CTD data processing from the preliminary comparisons between sensors or with bottle samples to data reductions and final sensors calibrations.

Table 12: Post–Calibration coefficients for the primary conductivity sensors.

s/n 1692
April 03, 2013
g = -3.97048503e+00
h = 5.01616283e+01
i = 5.13497448e-05
j = 2.51963126e-05
CPcor = -9.5700e-08
CTcor = 3.2500e-06

Table 13: Post–Calibration coefficients for the temperature sensors.

s/n 1335
April 24, 2013
g = 4.80194548e-03
h = 6.71992778e-04
i = 2.56189373e-05
j = 2.02476465e-06
f_0 = 1000.0

Table 14: Various sensors configurations used during the ABACO – 13/02 cruise.

Station	Temperature		Conductivity		Oxygen		CTD
	Primary	Secondary	Primary	Secondary	Primary	Secondary	
0–3	1692	5140	1335	2973	0140	1348	1035
4–76	1692	4799	1335	2973	0140	1348	1035

6.1 CTD Data Processing

By using the post cruise sensors calibrations; time drifts were estimated for the temperature and conductivity sensors. The processing module sequence used at sea is done again to include the time drifts as well as the pressure correction. After this step the following Matlab scripts based on PMEL programs are applied to the CTD data:

- FILL_SURFACE was used to copy the first good value of salinity, potential temperature, oxygen and oxygen current back to the surface. The program then calculated temperature and conductivity, and zeroed doc/dt of oxygen current for those records.

- DESPIKE1 removed spikes from primary oxygen current and oxygen temperature data, as well as removing spikes from the primary conductivity sensor. Data were linearly interpolated over de-spiked records. Conductivity was back calculated, and sigma-theta and potential temperature were recomputed for the interpolated records.

- DESPIKE2 removed spikes from secondary sensors in the same method as DESPIKE1.

- Package slowdown and reversals due to ship roll can move mixed water in tow in front of the CTD sensors. This mixture can create artificial density inversions and other artifacts. In addition to SEASOFT module LOOPEDIT, an AOML program, DELOOP, computes values of density locally referenced between every 1 dbar of pressure to compute N^2 = (- g/p) (dp/dz) and linearly interpolated measured parameters over those records where $N^2 \leq$ -1.0 e -05 s^{-2}.

6.2 CTD Pressure

Pressure sensor calibration coefficients derived from the pre-cruise calibrations were applied to raw pressure data during each cast. Residual pressure offsets (the difference between the first and last submerged pressures) were examined to check for calibration shifts (see Figure 9 and Table 15). On deck pressures before the start of each cast were recorded and are plotted in Figure 9. The on deck pressure before and after the cast were stable at 1.31± 0.11 db and 1.32 ± 0.15 db, respectively. The is a noticeable shift with the end on deck

pressure at station 28. This corresponds to the change in station depths; station 0-28 were deep CTD casts; Station 29 and onwards were all less than 850 m. It is clear that the pressure offset needs to be corrected before final calibration of the data is complete. This was accomplished by applying an offset of 1.31 dbar to the configuration file.

Near surface pressure values (which are taken as the near-surface pressure at the markscan and the last fired bottle pressure) showed larger variability, but no remarkable trends over the cruise (4.43 ± 1.32 db before and 4.32 ± 0.41 db after). There was no end surface pressure recorded after station 53 when the yoyo CTD casts started.

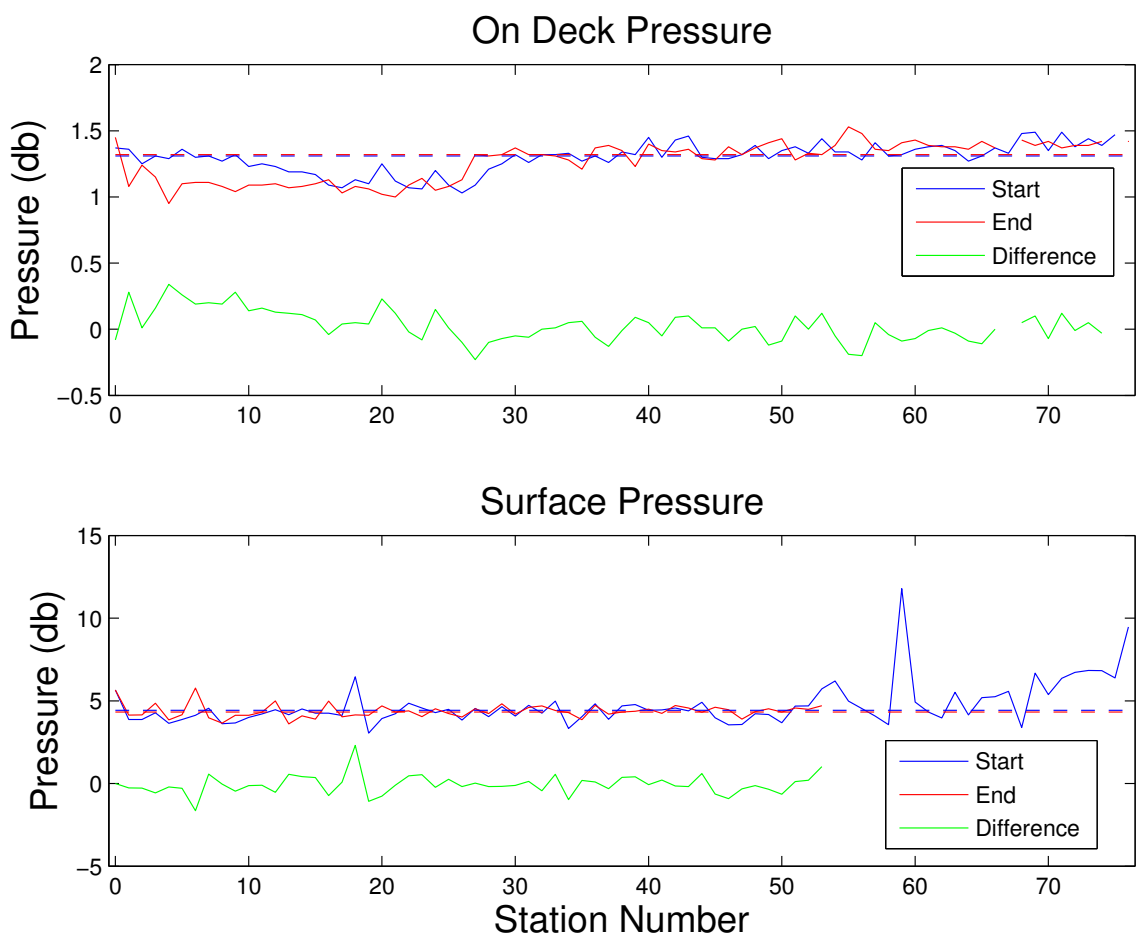

Figure 9: Pressure differences vs. station number. Top panel are the pressures measured on deck before the cast (blue),at the end of the upcast (red) and their respective difference (green) . Bottom panel are the sea surface pressure values measured at the start of the downcast (blue), at the end of the upcast (red) and their respective difference (green).

Table 15: Near surface pressure values and scan number used to remove surface soak and on-deck values.

Station	Markscan	Deck Prs Start	Deck Prs End	Sfc Prs Start	Sfc Prs End
0	6914	1.3700	1.4500	5.6600	5.6600
1	9902	1.3600	1.0800	3.8700	4.1400
2	22679	1.2500	1.2400	3.8700	4.1500
3	7851	1.3100	1.1500	4.2800	4.8500
4	11297	1.2900	0.9500	3.6400	3.8500
5	24952	1.3600	1.1000	3.8700	4.1600
6	7619	1.3000	1.1100	4.1300	5.7700
7	6738	1.3100	1.1100	4.5500	3.9800
8	29406	1.2700	1.0800	3.6200	3.6500
9	19230	1.3200	1.0400	3.6600	4.1200
10	7505	1.2300	1.0900	4.0000	4.1300
11	17647	1.2500	1.0900	4.2100	4.3100
12	27677	1.2300	1.1000	4.4600	4.9900
13	13202	1.1900	1.0700	4.1600	3.6000
14	16124	1.1900	1.0800	4.5100	4.0900
15	7103	1.1700	1.1000	4.2500	3.8900
16	6501	1.0900	1.1300	4.2500	4.9800
17	29259	1.0700	1.0300	4.1100	4.0300
18	27294	1.1300	1.0800	6.4600	4.1500
19	33408	1.1000	1.0600	3.0500	4.1300
20	6602	1.2500	1.0200	3.9300	4.6900
21	9565	1.1200	1.0000	4.2200	4.3200
22	13367	1.0700	1.0900	4.8500	4.3900
23	9287	1.0600	1.1400	4.5700	4.0400
24	14026	1.2000	1.0500	4.2900	4.5200
25	8003	1.0900	1.0800	4.4900	4.2300
26	15590	1.0300	1.1300	3.8400	4.0200
27	7495	1.0900	1.3200	4.5400	4.5200
28	27764	1.2100	1.3100	4.0400	4.2300
29	18128	1.2500	1.3200	4.6500	4.8200
30	25416	1.3200	1.3700	4.0800	4.2000
31	10131	1.2600	1.3200	4.7300	4.6000
32	19688	1.3200	1.3200	4.2500	4.6900
33	8793	1.3200	1.3100	4.9800	4.4200
34	29993	1.3300	1.2800	3.3200	4.2900
35	21492	1.2700	1.2100	4.0400	3.8600
36	17903	1.3100	1.3700	4.8200	4.7300
37	17466	1.2600	1.3900	3.8800	4.1900
38	7266	1.3400	1.3500	4.6900	4.3200
39	12852	1.3200	1.2300	4.7700	4.3700
40	6136	1.4500	1.4000	4.4300	4.5000

41	5921	1.3000	1.3500	4.4500	4.2400
42	6574	1.4300	1.3400	4.5700	4.7200
43	6246	1.4600	1.3600	4.3900	4.5700
44	6004	1.3000	1.2900	4.9100	4.3100
45	15937	1.2900	1.2800	3.9700	4.6100
46	27240	1.2900	1.3800	3.5400	4.4600
47	7413	1.3200	1.3200	3.5700	3.8900
48	19519	1.3900	1.3700	4.2200	4.3500
49	15222	1.2900	1.4100	4.1700	4.5200
50	21013	1.3500	1.4400	3.6700	4.3200
51	6699	1.3800	1.2800	4.6800	4.5600
52	6820	1.3300	1.3300	4.6900	4.4900
53	7343	1.4400	1.3200	5.7300	4.7100
54	12385	1.3400	1.3900	6.2000	
55	15712	1.3400	1.5300	4.9800	
56	12878	1.2800	1.4800	4.5300	
57	25523	1.4100	1.3600	4.0800	
58	11904	1.3100	1.3500	3.5600	
59	20076	1.3200	1.4100	11.7900	
60	24107	1.3600	1.4300	4.9300	
61	19314	1.3800	1.3900	4.3200	
62	14092	1.3900	1.3800	3.9600	
63	13891	1.3500	1.3800	5.5200	
64	14732	1.2700	1.3600	4.1500	
65	17233	1.3100	1.4200	5.1900	
66	9605	1.3700	1.3700	5.2500	
67	10274	1.3300		5.5700	
68	6717	1.4800	1.4300	3.3800	
69	6893	1.4900	1.3900	6.6800	
70	6879	1.3500	1.4200	5.3800	
71	7134	1.4900	1.3700	6.3600	
72	8037	1.3800	1.3900	6.7200	
73	11271	1.4400	1.3900	6.8400	
74	15686	1.3900	1.4200	6.8200	
75	7516	1.4700		6.3800	
76	268		1.4200	9.4700	

6.3 CTD Temperature

Temperature sensor calibration coefficients derived from the pre-cruise calibrations were applied to raw primary and secondary temperature data during each cast. Data accuracy, reproducibility and stability were examined by tabulating the difference between the two different temperature sensors over a range of pressures (bottle trip locations) for each cast. These comparisons are summarized in Figure 10, which shows a median temperature difference between the two sensors of 5.76 · 10-6 °C and a standard deviation of 0.002 °C.

There was an offset of ≈ 0.002°C caused by a pressure dependence in the secondary temperature sensor, SN 5140. The secondary temperature sensor, s/n 5140, was removed after station 3 and replaced with, s/n 4799. The temperature sensor differences improved to less than 0.001°C. The primary sensor was used for the final data values.

Following Seabird application note No. 31, a linear offset drift is applied between the pre-cruise calibration and the pos-cruise calibration value. The corrected temperature and offset are computed according to:

$$T_{cor} = slope * T_{CTD} + offset$$

and

$$offset = b * (residual/n)$$

where T_{cor} is the corrected temperature, the slope is taken to be 1, T_{CTD} is the sensor temperature, b is number of days between pre-cruise calibration and the cast to be corrected, n is the number of days between pre- and post-cruise calibrations, and $residual$ is the residual from the post-calibration sheet (Sea-Bird Electronics, Inc., 2010).

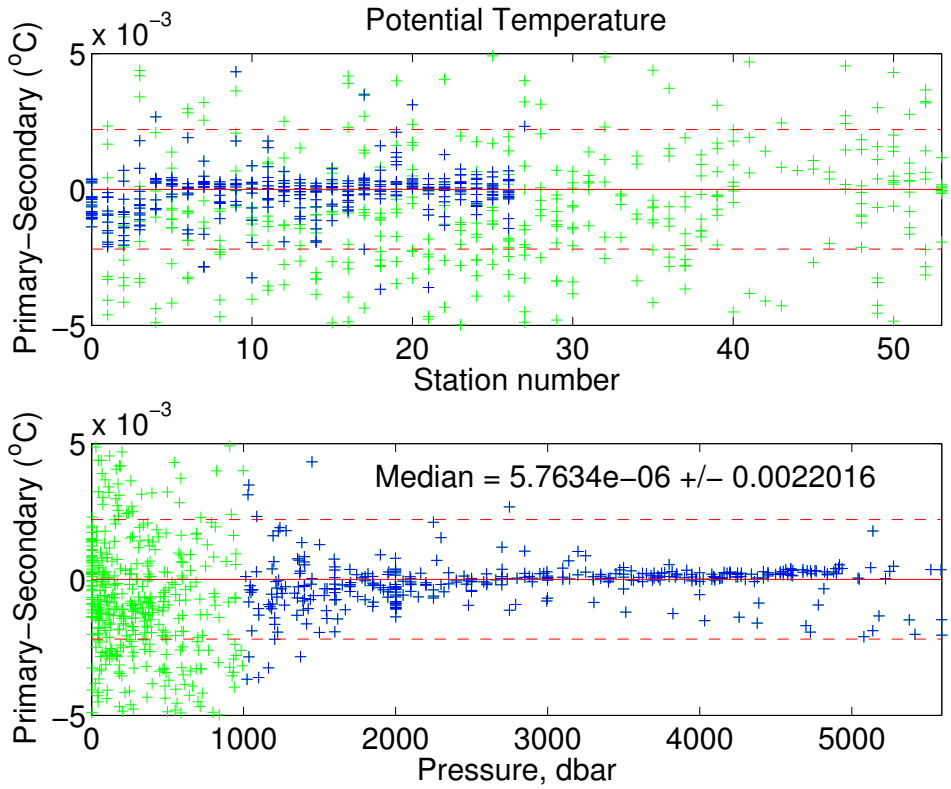

Figure 10: Temperature differences (after corrections) between sensors by station number (top) and pressure (bottom). The green represents the surface data down to 1000 db. The blue represents data below 1000 db. The red solid line represents the median with the red dashed representing the standard deviation (same for top and bottom).

6.4 Conductivity

Conductivity sensor calibration coefficients derived from the pre-cruise calibrations were applied to raw primary and secondary conductivities. Comparisons between the primary and secondary sensors and between each of the sensors to conductivity calculated from bottle salinities were used to derive conductivity corrections. Uncorrected C1-C2 are shown in Figure 11 to help identify sensor drift. Two conductivity sensors were used throughout the cruise. The sensors show a median difference of 0.00014 S/m and a standard deviation of 0.00021 S/m. Both sensors showed reasonable values for the residuals. The primary sensor exhibited the lowest residuals when compared to the bottle data and was used for all the final data values (Figure 12).

Despite the large variability of the data after station 26 (Figure 12), the examples are kept in the database and used for the final calibration. Note also that these CTD stations were in the Northwest Providence Channel and Florida Straits where bottom depths do not exceed 800 m. The AOML/CTDCAL Toolbox automatically applies a quality control to the data based on comparison with a normal distribution. After these procedures 859 data points (82.9 %) were used in the final calculations.

In order to calibrate the CTD conductivity data against the sample conductivity we assume a constant additive correction (offset), multiplicative correction (slope), time drift correction (represented by station number) and where needed, a linear pressure-dependent term. A non-linear function is used to derive these coefficients and are applied to

$$C_{new} = [m * C_{CTD} + (p_1 * station) + b + pcor * P]$$

with

$$m\text{=0.9998220}$$
$$p_1\text{=-4.156540e-05}$$
$$b\text{=0.0049139}$$
$$pcor\text{=-1.625963e-07}$$

where C_{new} is corrected conductivity (S/m), C_{CTD} is pre-cruise calibrated CTD conductivity (S/m), m is the conductivity slope, b is the offset (S/m), P is the pressure, $pcor$ is the pressure correction coefficient, $station$ is the station number and p_1 is the polynomial coefficient. The fit is also weighted in such way that the final solution is preferentially forced to fit the data below a specified depth, in this case 1000 dbar.

The coefficients estimated by the equation above were then applied to the CTD conductivities and the final results (Figure 13 to Figure 16) show a residual of 2.3 · 10-4 psu (2.19 · 10-5 psu for the data below 1000 dbar) and a standard deviation of 0.0029 psu (0.00077 psu for the data below 1000 dbar). Also 68.7% of the residuals for the data are within the confidence limits determined by the WOCE (± 0.002 psu) and this number increase to

99.1% if we consider only the data below 1000 dbar.

A final verification about the quality of the data was made by comparing the results of this cruise with some historical data (Figure 17 and Figure 18). Water mass properties are very stable, specially for deeper layers of the ocean, that way by comparing these values we can have a very good estimative of the quality of these data.

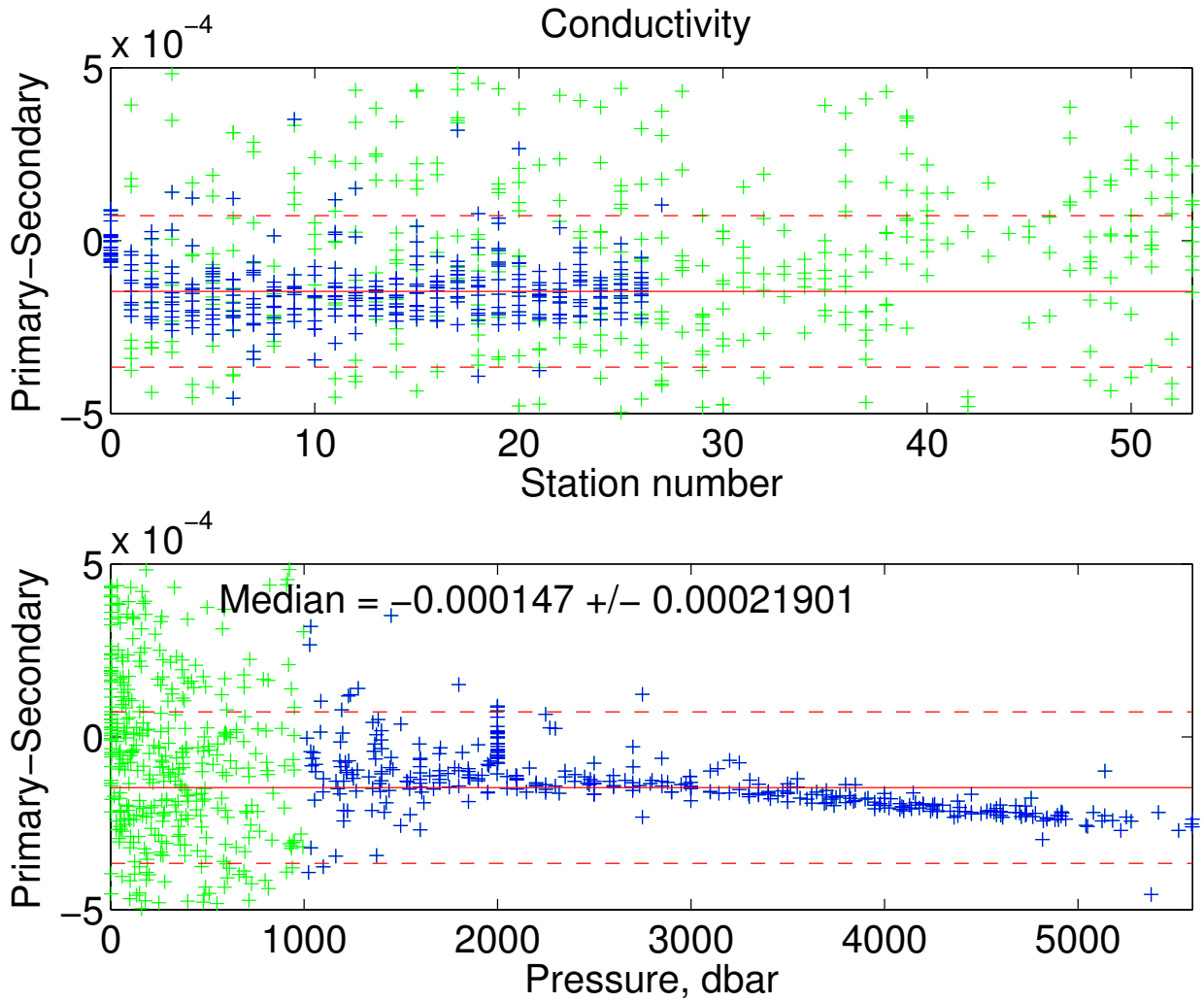

Figure 11: Conductivity differences (S/m) between sensors by station. The red solid line represents the median with the red dashed representing the standard deviation. The median was calculated using only the data below 1000 dbar.

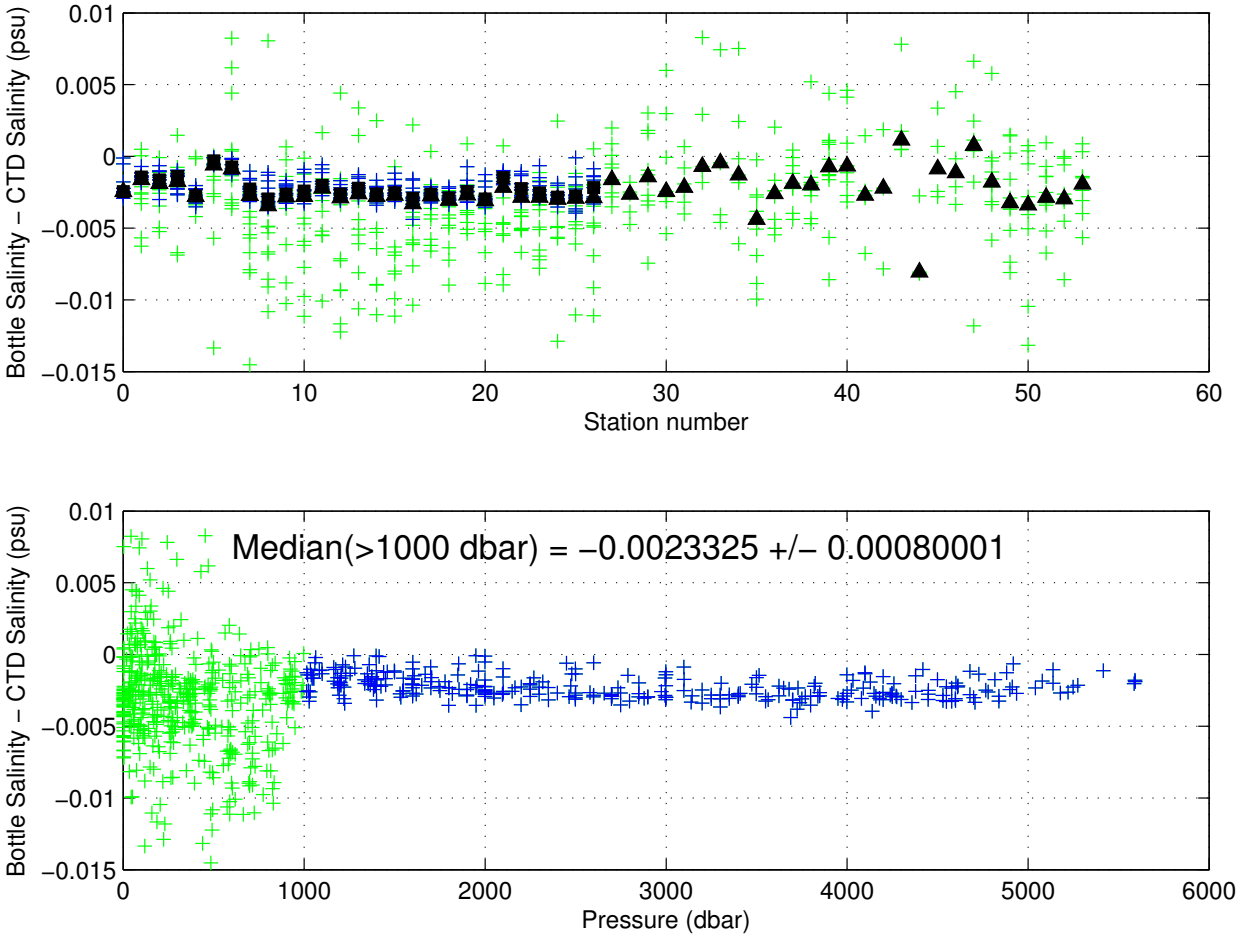

Figure 12: Bottle and uncalibrated primary CTD salinity differences plotted against pressure. The green crosses represent shallow data points and the blue are the data points below 1000 dbar. The median was calculated using only the data below 1000 dbar.

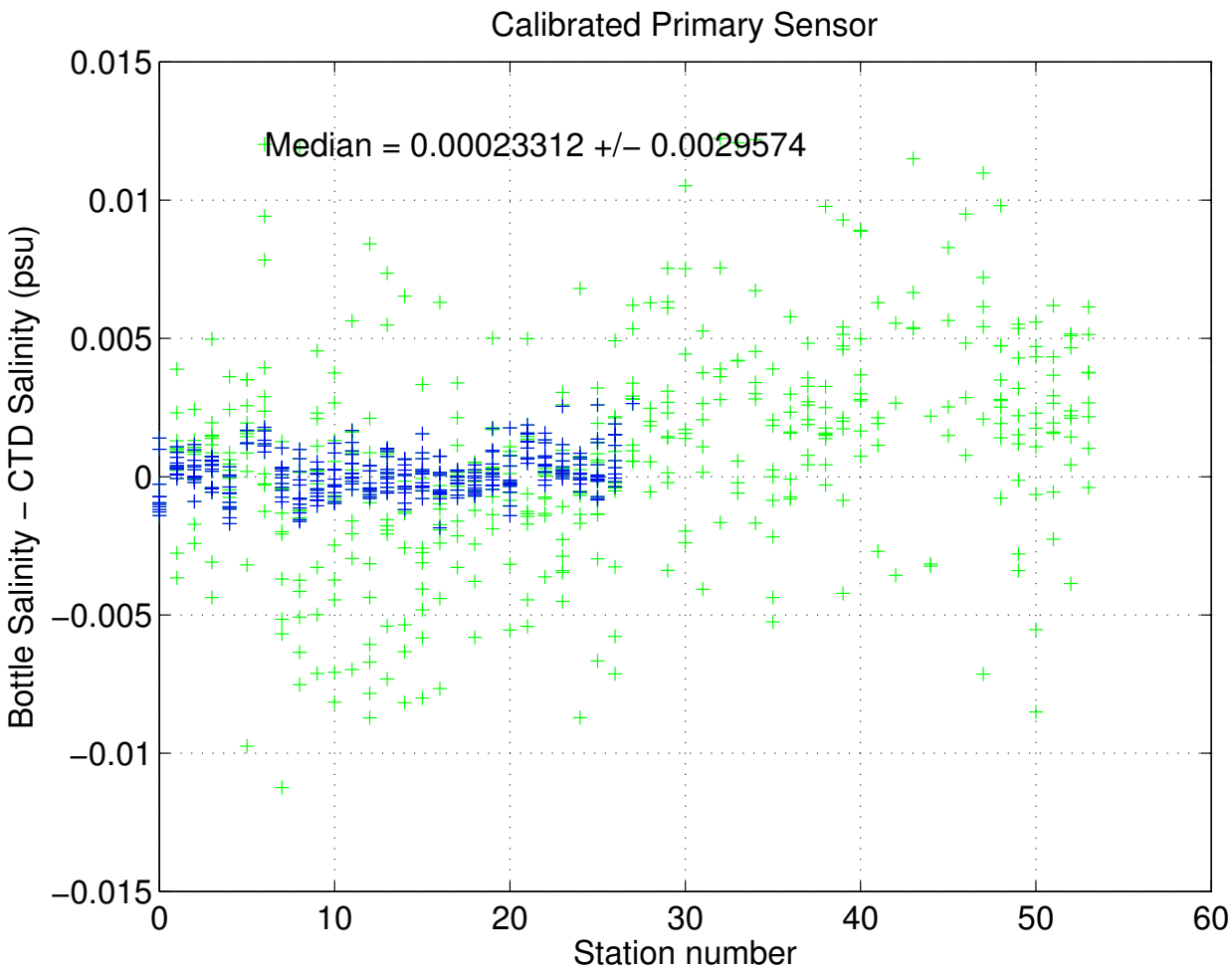

Figure 13: Bottle and calibrated primary CTD salinity differences plotted vs. station.The green crosses represent shallow data points and the blue are the data points below 1000 dbar. The median was calculated using the full profile.

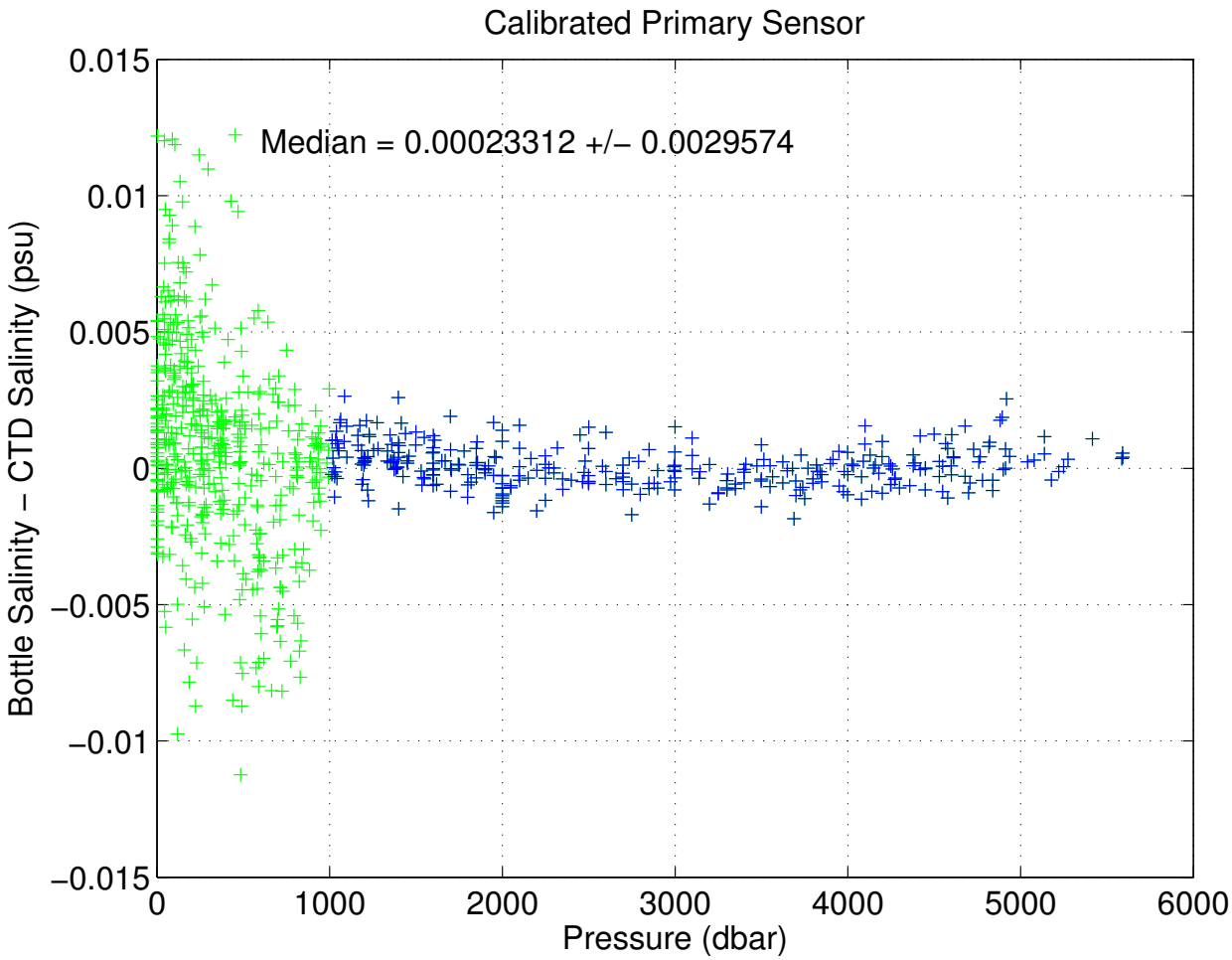

Figure 14: Bottle and calibrated primary CTD salinity differences plotted vs. pressure.The green crosses represent shallow data points and the blue are the data points below 1000 dbar. The median was calculated using the full profile.

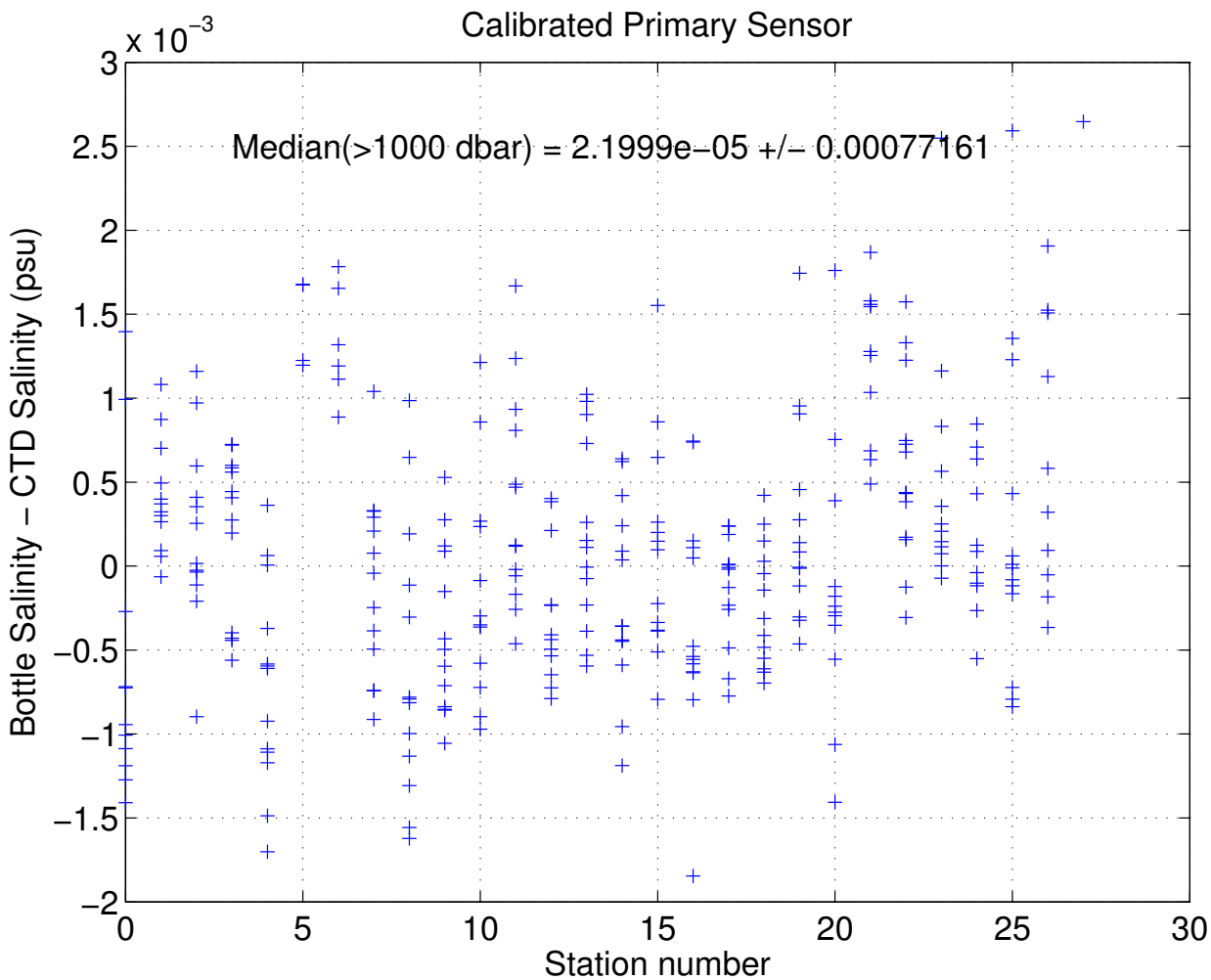

Figure 15: Bottle and calibrated primary CTD salinity differences plotted vs. station below 1000 dbar. The median was calculated using only the data below 1000 dbar.

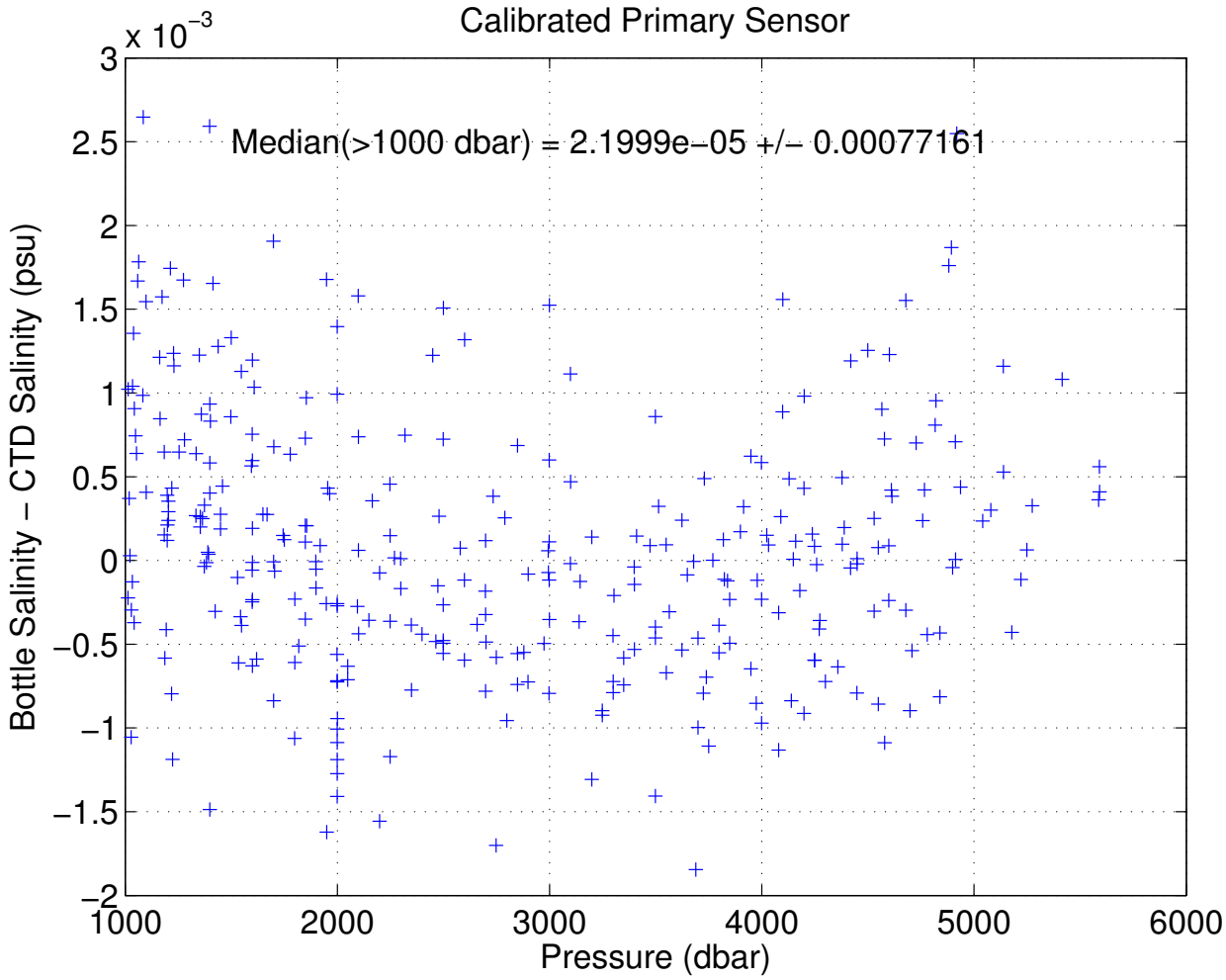

Figure 16: Bottle and calibrated primary CTD salinity differences plotted vs. pressure below 1000 dbar. The median was calculated using only the data below 1000 dbar.

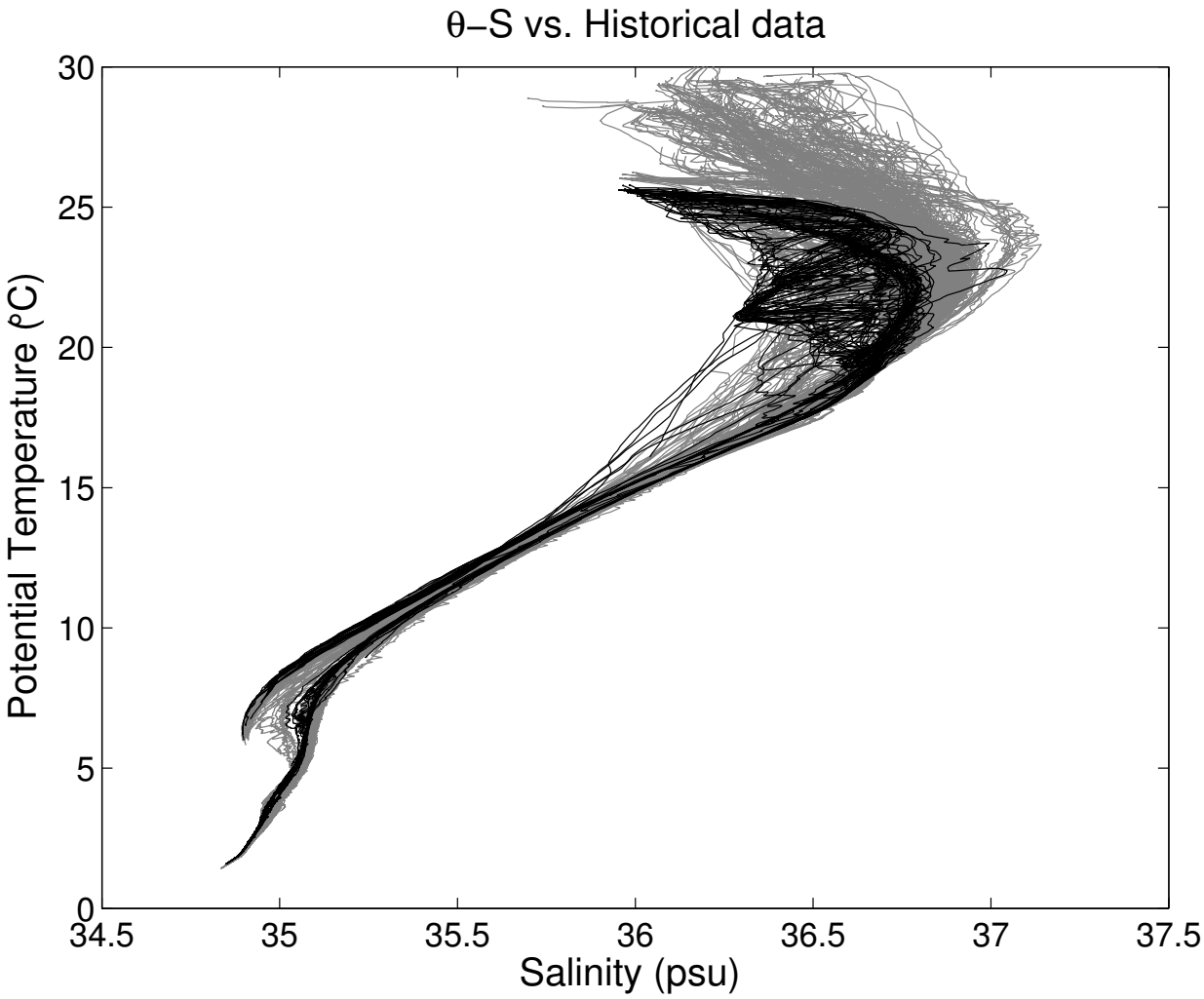

Figure 17: Potential Temperature - Salinity diagram for all stations. The solid black lines are the data collected during this cruise; the solid gray lines are data from the historical database.

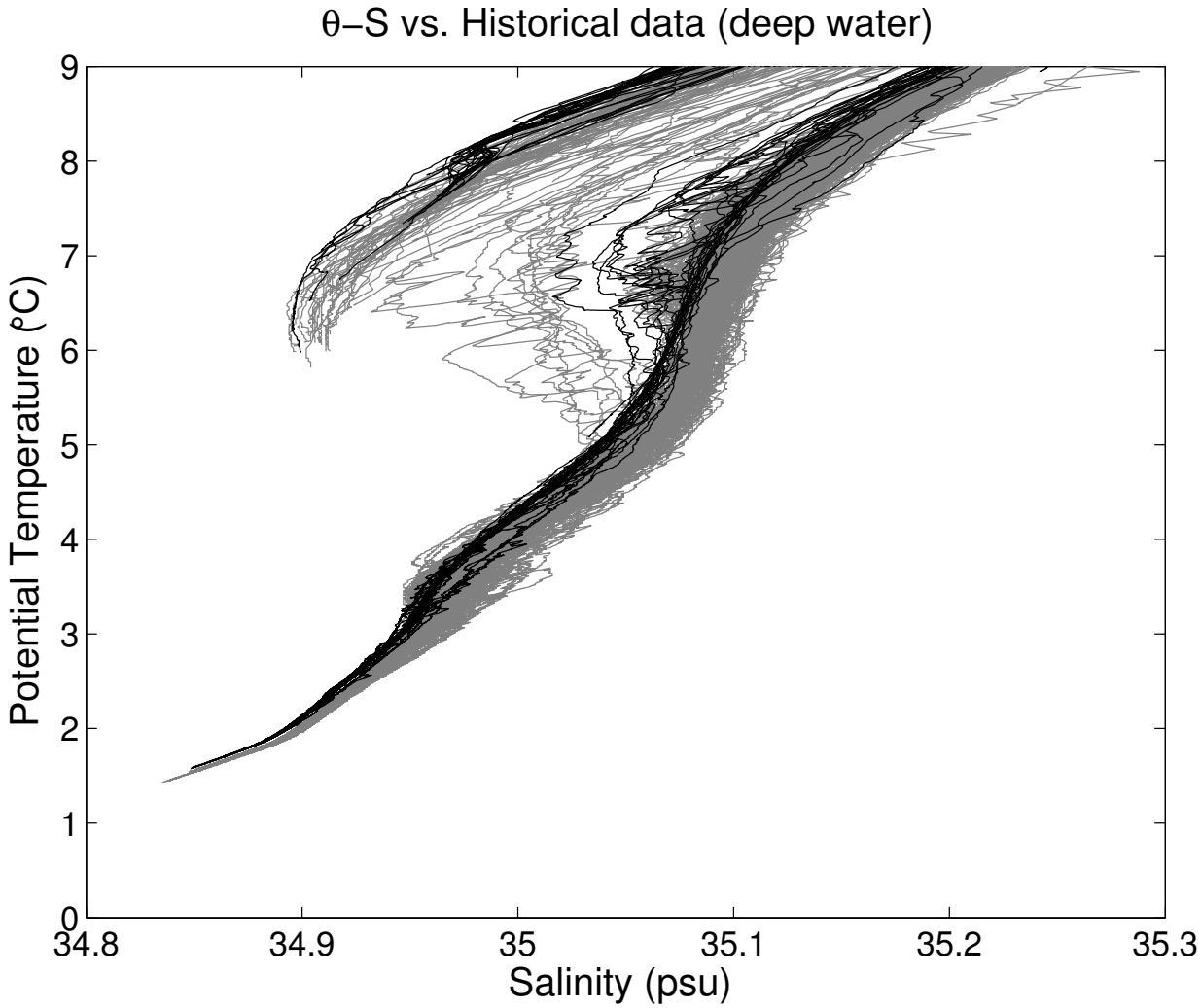

Figure 18: Potential Temperature - Salinity diagram for all stations. The solid black lines are the data collected during this cruise; the solid gray lines are data from the historical database.

6.5 Dissolved Oxygen

Two SBE43 dissolved O_2 (DO) sensors were used on this leg (Table 4). Due to a hysteresis problem with the oxygen sensors the DO sensors were calibrated to dissolved O2 check samples by matching the up cast bottle trips to down cast CTD data along neutral density surfaces, calculating CTD dissolved O_2, and then minimizing the residuals using a non-linear least-squares fitting procedure.

The algorithm used for converting oxygen sensor current and probe temperature measurements as described, requires a non-linear least squares regression technique in order to determine the best fit coefficients of the model for oxygen sensor behavior to the water sample observations. A Matlab® sub-routine called `oxfit.m` from the AOML CTD/CAL TOOLBOX performs non-linear least squares regression using the Gauss-Newton algorithm with Levenberg-Marquardt modifications for global convergence. This algorithm is independent of the first coefficients guess and demonstrates excellent convergence. This `oxfit.m` routine includes an optional time drift term (related with the station number), allowing all stations to be calibrated without breaking into discrete groupings. The Owens and Millard (1985) algorithm was modified as follows:

$$O\ (ml/l) = \{Soc * (V + V_{offset} + tau(T,S) * \frac{\delta v}{\delta t}) + p1 * station\}$$
$$*(1.0 + A * T + B * T^2 + C * T^3) * OXSAT(T,S) * e^{E*(\frac{P}{K})}$$

with

Soc 0.5995032
V_offset -0.5020020
tau 1.53
A -0.0105937
B 0.0006531
C -0.0000127
E 0.0362313
$p1$ -0.0000334

where Soc, tau, V_{offset}, A, B, C, E and $p1$ are the calibration coefficients shown above and V is the instrument voltage (V). T, S and P are the temperature, salinity and pressure measured by the CTD. K is the temperature in the absolute scale, *station* is the station number, and $OXSAT$ is the oxygen saturation (see section 4.4 Dissolved Oxygen).

A comparison between the primary and secondary sensors (Figure 19). The sensors show a median difference of 0.076 $umol/kg$ and a standard deviation of 0.77 $umol/kg$. The comparison of sensors to bottle oxygen data (Figure 20) were evaluated were both sensors had

comparable residuals to the bottle data. The secondary sensor exhibited the best fit to the bottle data.

Again, the variability in the differences is very noticeable after station 26 and the rest of the stations (Figure 20), which corresponds to the Florida Straits and Northwest Providence Channel (where bottom depths do not exceed 800m), although we decided not to divide them into a second group for separate analysis. Also, analogous to the conductivity, AOML/CTDCAL Toolbox automatically applies a quality control to the data based on comparison with a normal distribution. After these procedures 856 data points (91.12%) were used in the final calculations.

By minimizing the differences between the oxygen samples and the CTD oxygen estimated from the equation described in this section, new coefficients were calculated and then applied to the CTD original data (Figure 21 to Figure 24). The residual is -0.015 $umol/kg$ (0.021 $umol/kg$ for the data below 1000 dbar) and the standard deviation 1.1 $umol/kg$ (0.74 $umol/kg$ for the data below 1000 dbar). Also 97.4% of the residuals for the data are within the confidence limits determined by the WOCE ($\pm$ 1% of the dissolved oxygen measured) and this number increase to 100% if we consider only the data below 1000 dbar.

A final verification about the quality of the data was made by comparing the results of this cruise with some historical data (Figure 25 and Figure 26). Water mass properties are very stable, specially for deeper layers of the ocean, that way by comparing these values we can have a very good estimative of the quality of these data.

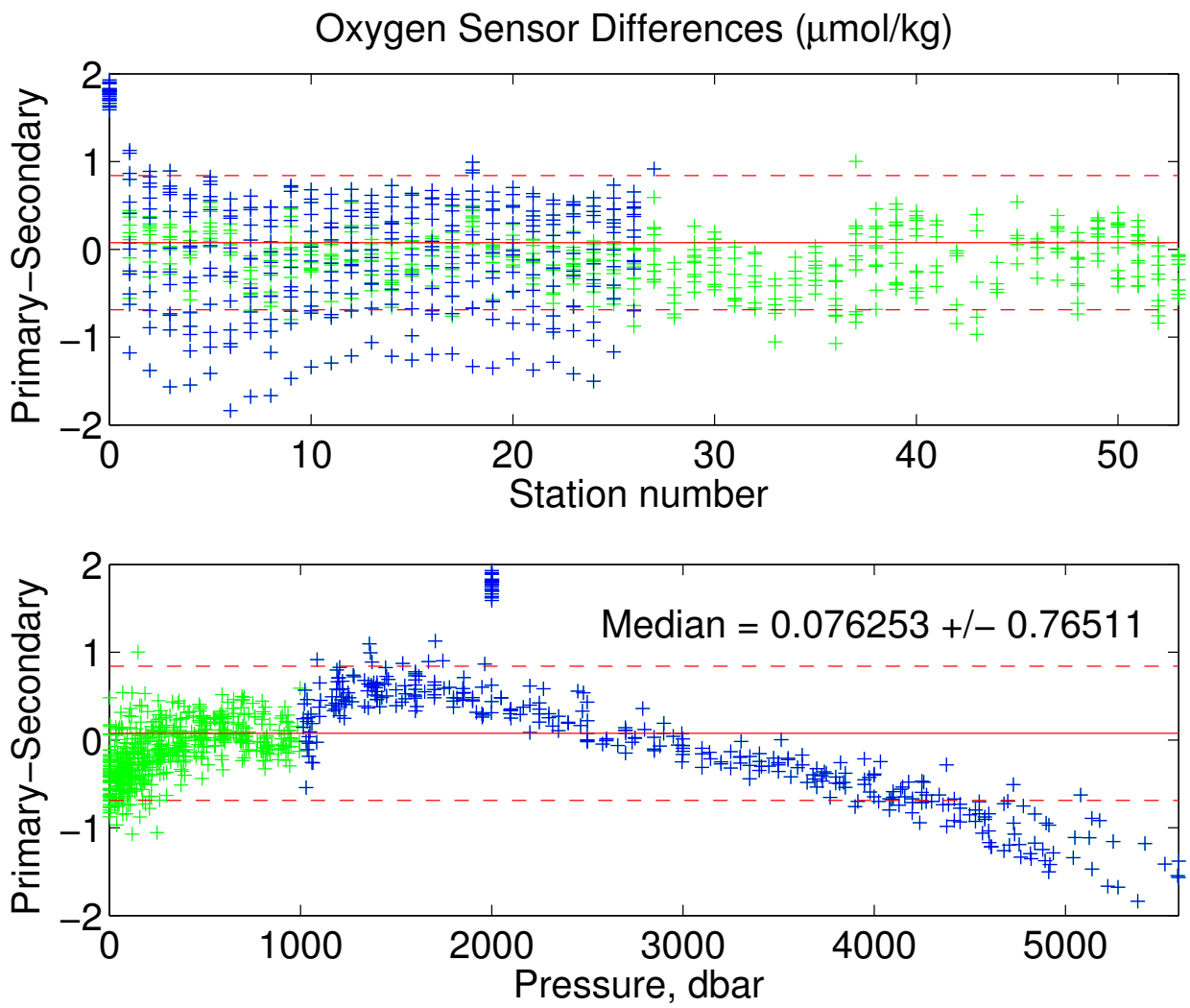

Figure 19: Dissolved oxygen differences between sensors by station number below 1000 db. The red solid line represents the median with the red dashed representing the standard deviation. The median was calculated using only the data below 1000 dbar.

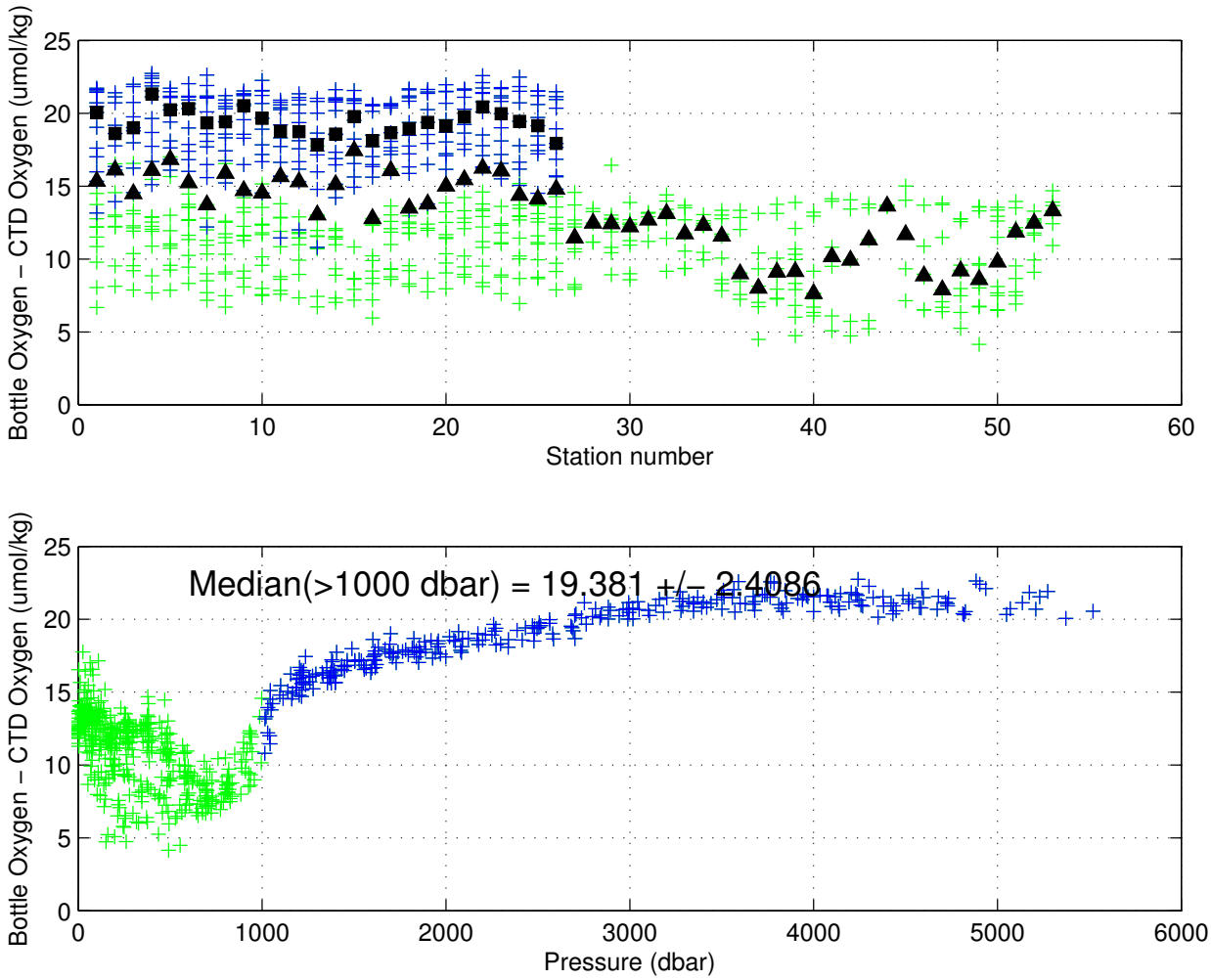

Figure 20: Bottle and uncalibrated primary CTD oxygen differences plotted against station number. The green crosses represent shallow data points and the blue are the data points below 1000 dbar. The median was calculated using only the data below 1000 dbar.

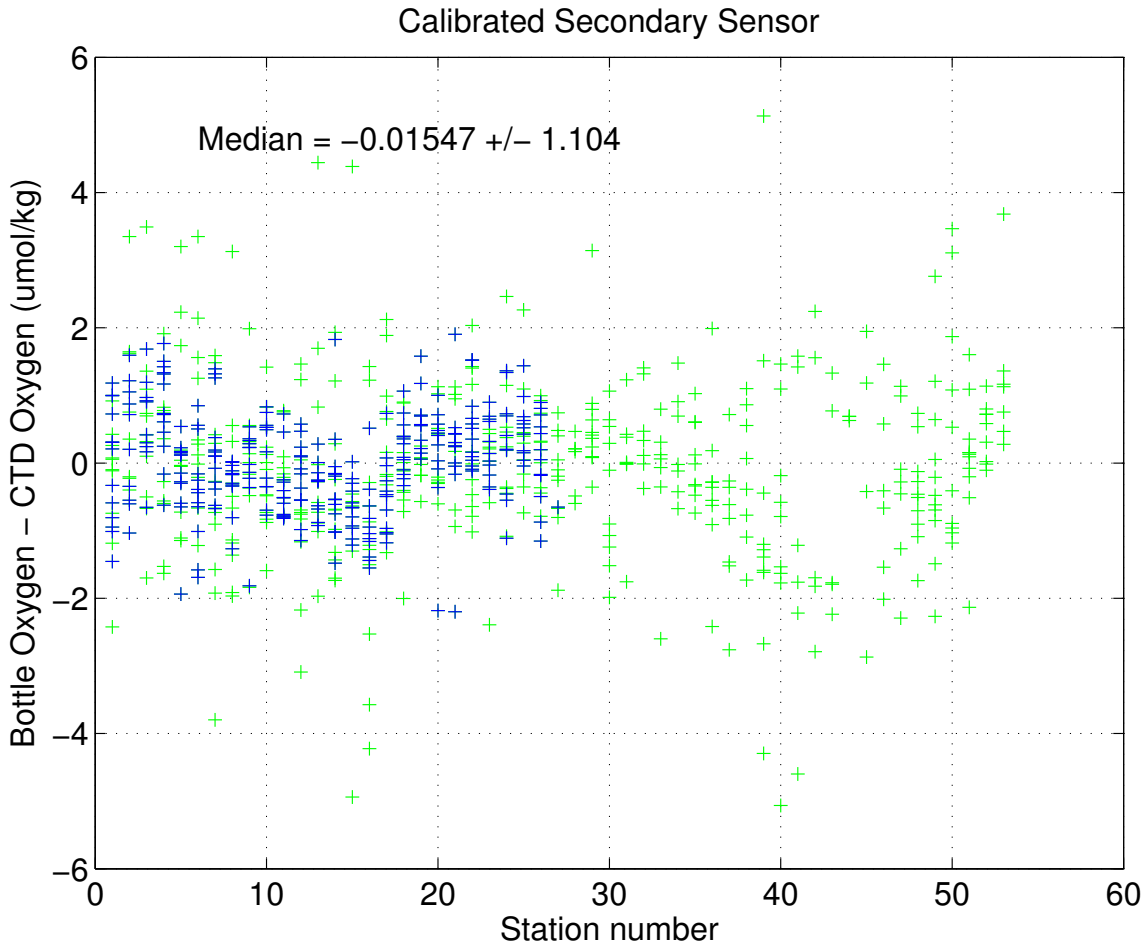

Figure 21: Bottle and calibrated secondary CTD oxygen differences plotted vs. station. The green crosses represent shallow data points and the blue are the data points below 1000 dbar. The median was calculated using the full profile.

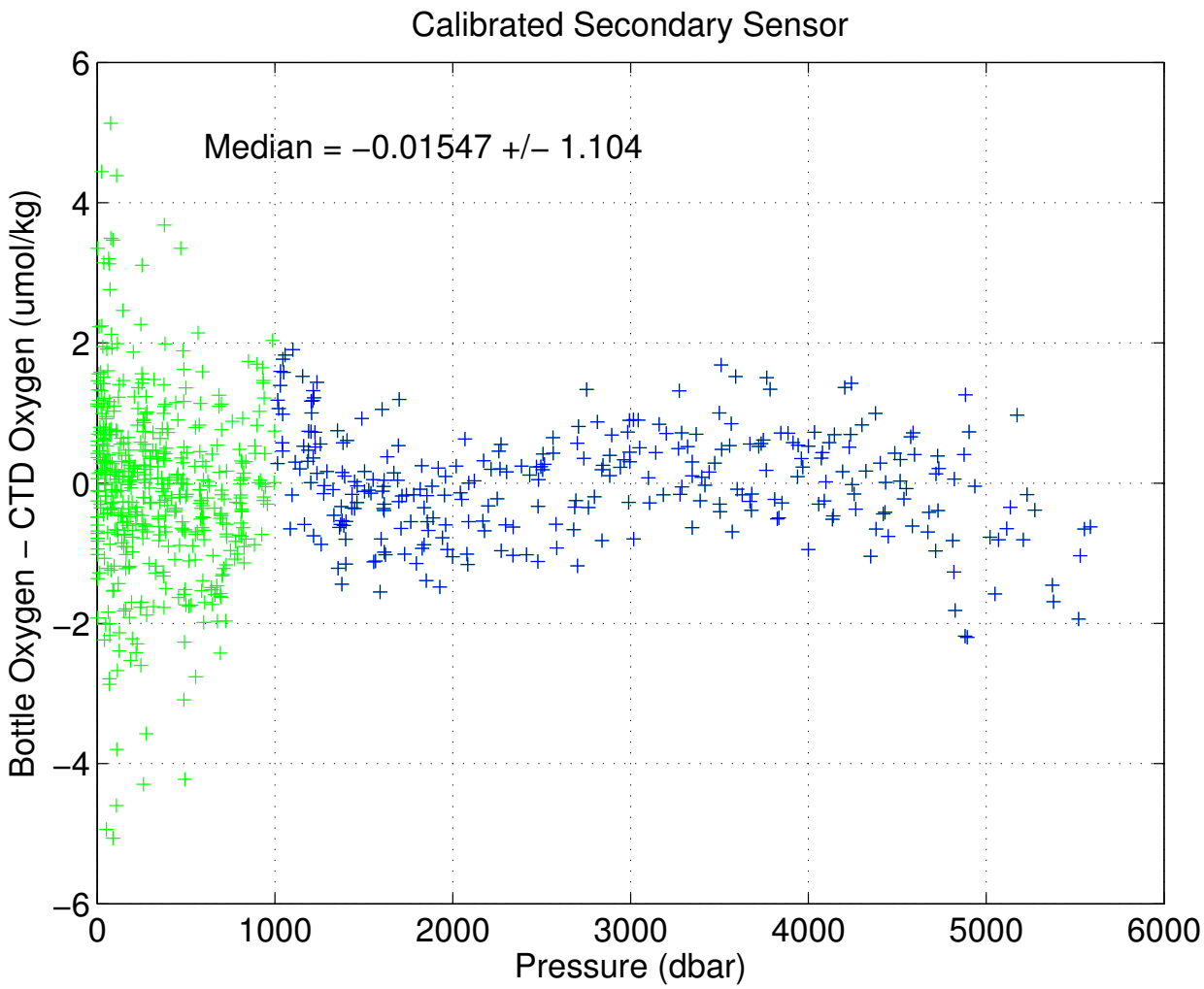

Figure 22: Bottle and calibrated secondary CTD oxygen differences plotted vs. pressure. The green crosses represent shallow data points and the blue are the data points below 1000 dbar. The median was calculated using the full profile.

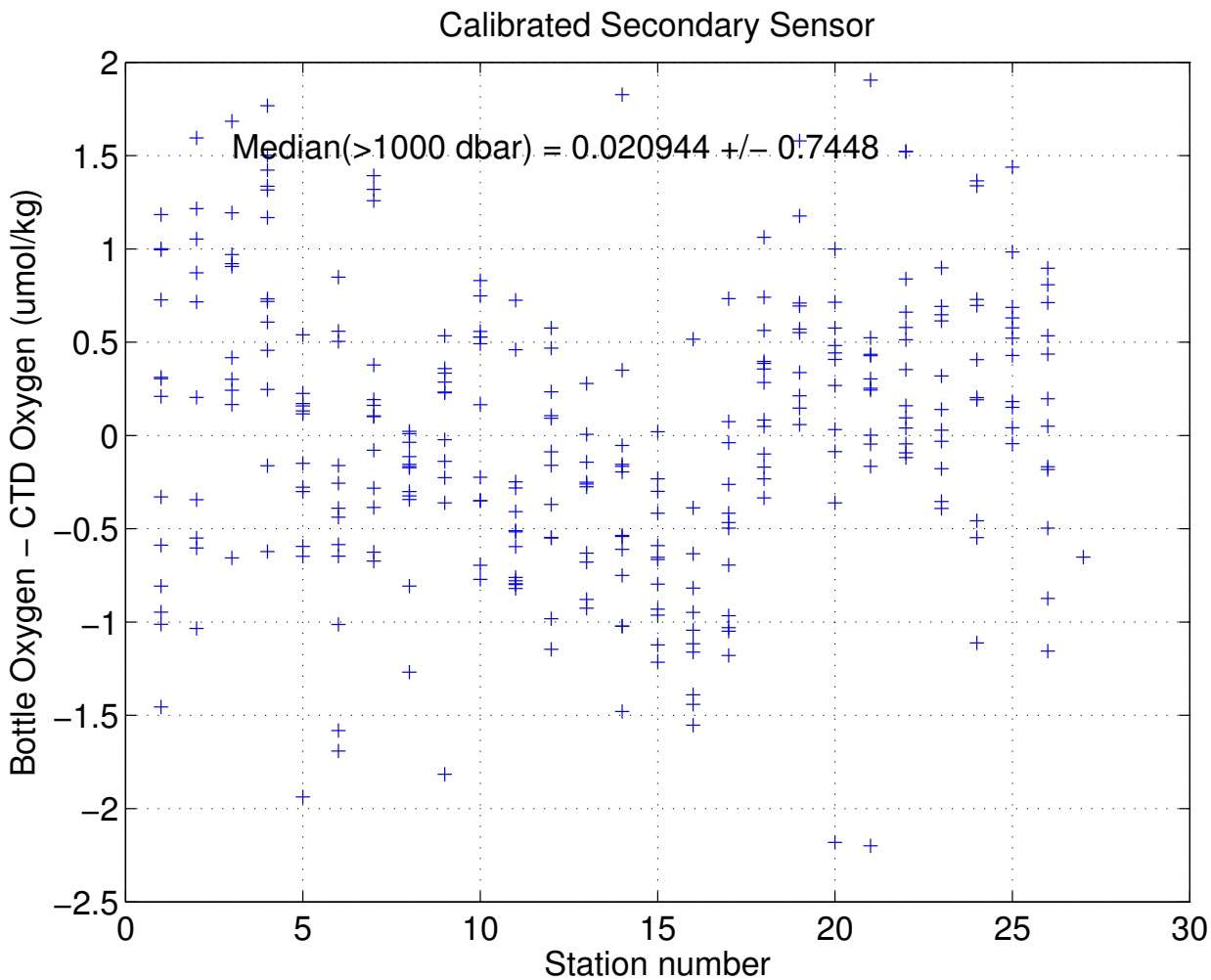

Figure 23: Bottle and calibrated secondary CTD oxygen differences plotted vs. station below 1000 dbar. The median was calculated using only the data below 1000 dbar.

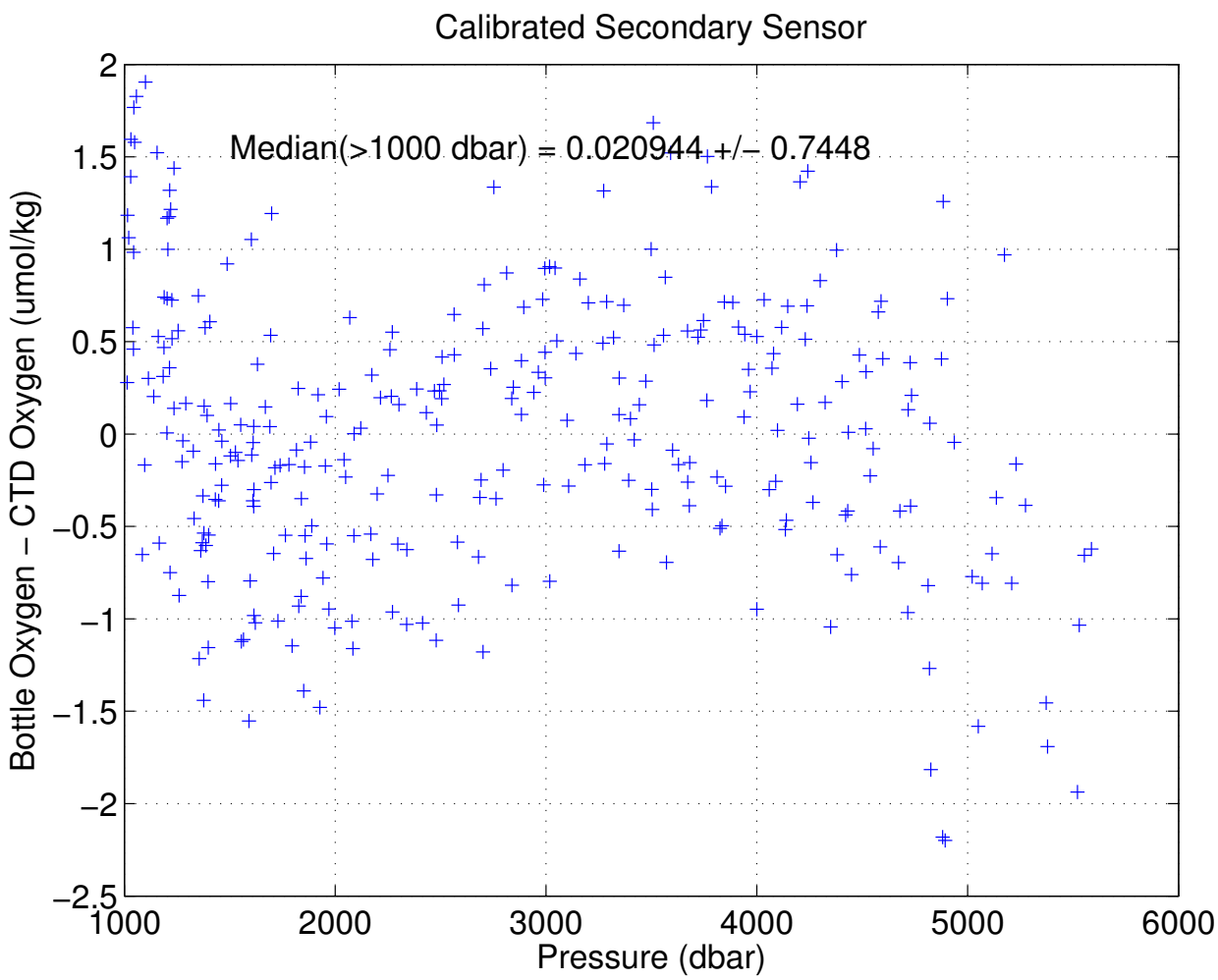

Figure 24: Bottle and calibrated secondary CTD oxygen differences plotted vs. pressure below 1000 dbar. The median was calculated using only the data below 1000 dbar.

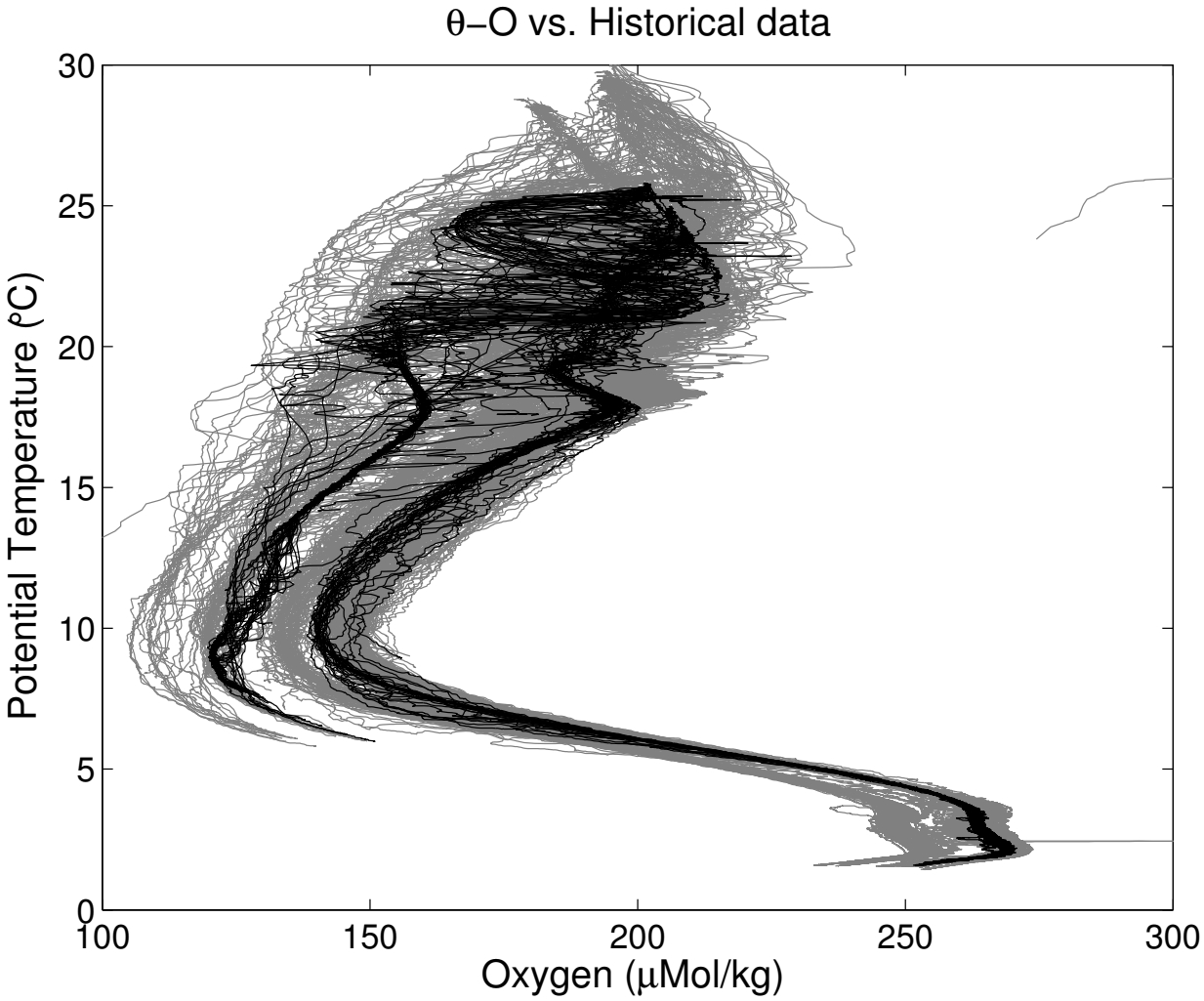

Figure 25: Potential Temperature - Oxygen diagram for all stations. The solid black lines are the data collected during this cruise; the solid gray lines are data from the historical database.

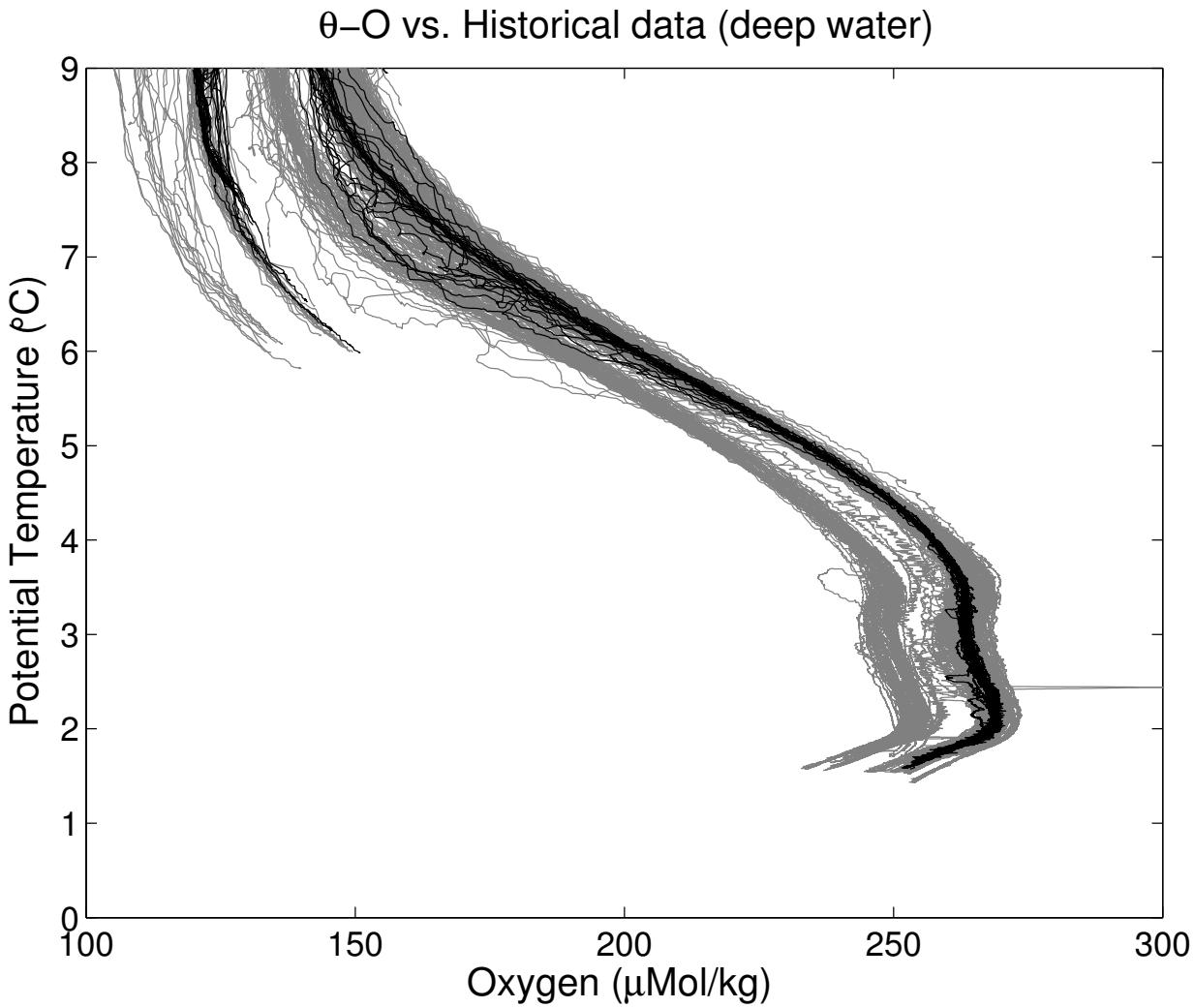

Figure 26: Potential Temperature - Oxygen diagram for all stations. The solid black lines are the data collected during this cruise; the solid gray lines are data from the historical database.

7 Final CTD Data Presentation

The final calibrated data files were used to produce the tables and station profile plots presented in Appendix A for each CTD station. The table on the top is in "standard depths" followed by the a table of the bottle trip depths. The corresponding profile plot is shown on the following page. Niskin bottle depths are presented on the right side of the profile plot. Bottle salinity and oxygen values are plotted as points in the three smaller plots.

Vertical sections of potential temperature, CTD salinity, neutral density, and CTD oxygen are contoured with pressure as the vertical axis and, for Abaco sections longitude as horizontal axis (Figure 27 to Figure 30). Nominal vertical exaggerations are 400:1 below 1000 dbar (lower panels) and 200:1 above 1000 dbar (upper panels). The Florida Current North/South Section(s) also use longitude as the horizontal axis (Figure 31 to Figure 38). For the Northwest Providence Channel Sections latitude is used as horizontal axis (Figure 39 to Figure 42).

Post-cruise calibrations were applied to CTD data associated with bottle data using Matlab sub-routines (`apply_calibration.m`). WOCE quality flags were appended to bottle data records. "Bad values" (WOCE quality control value = 4) were flagged if the bottle samples failed the initial quality control and were not used for the calibration (which meant they typically fell outside 2.57 standard deviations of the difference between samples and uncalibrated CTD values). A second pass is applied, using the value of 2.5 times the standard deviation of the difference between calibrated CTD values and bottle samples, where bottle values may be flagged as "bad values" or as questionable (WOCE quality control value = 3).

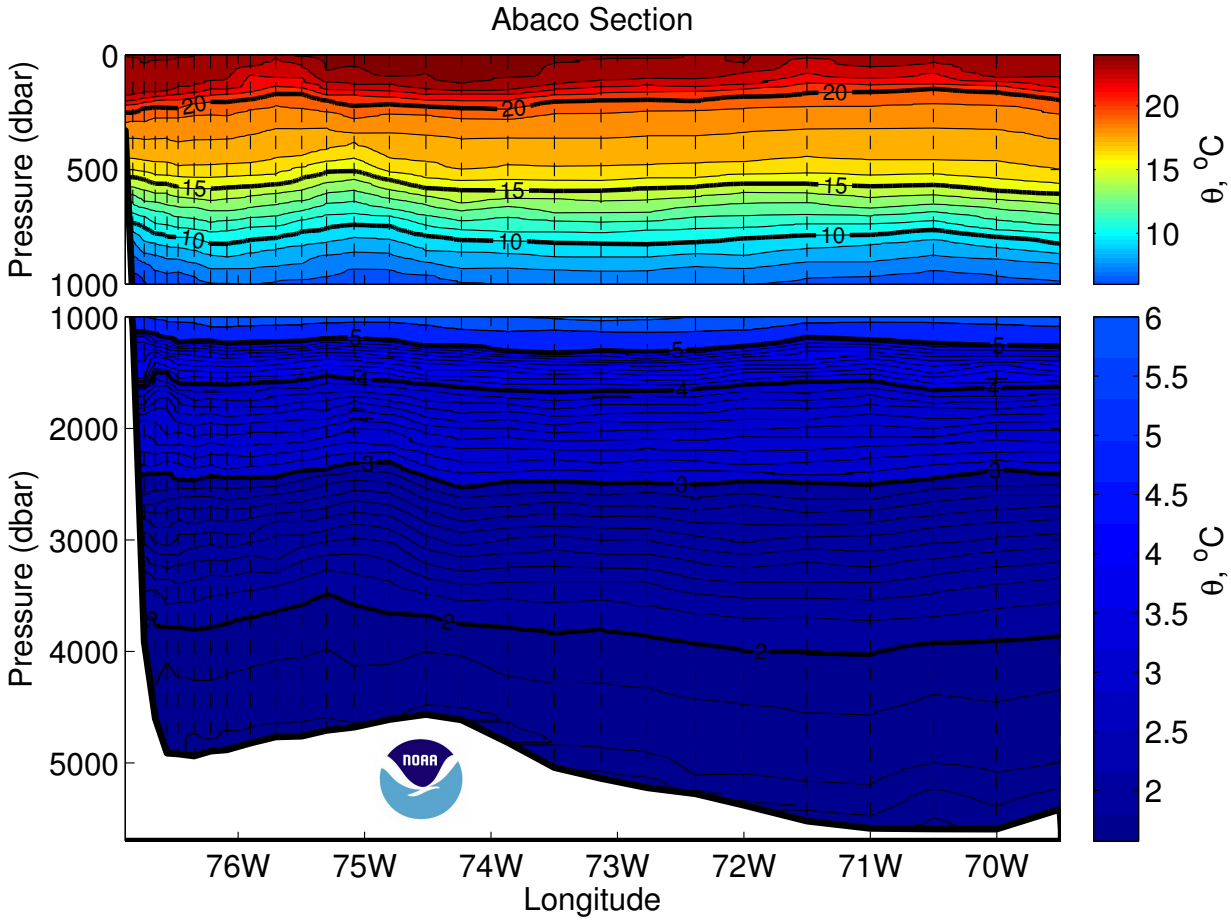

Figure 27: Potential Temperature (°C) section for the Abaco Section. Dashed vertical lines are the CTD station locations.

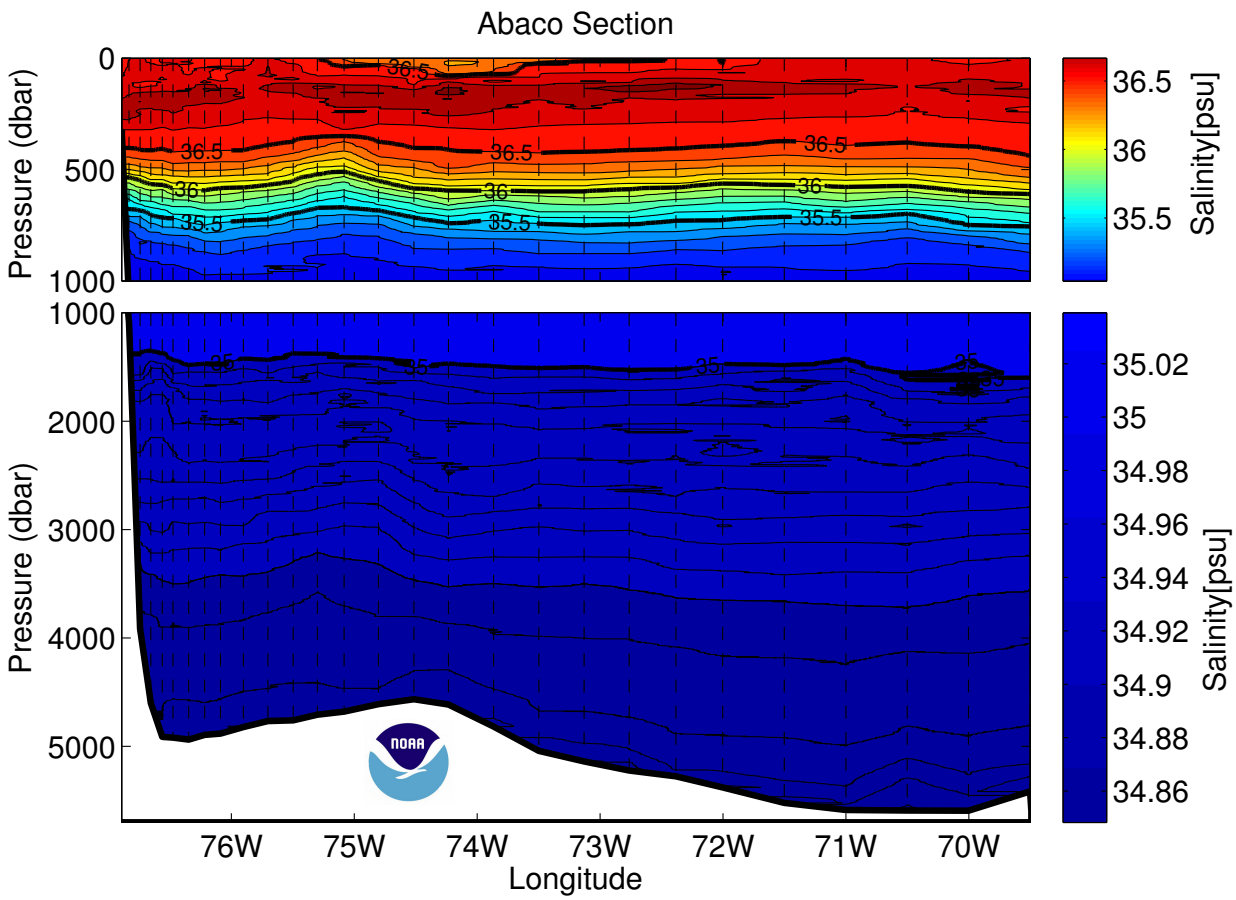

Figure 28: Salinity (PSS 78) section for the Abaco section. Dashed vertical lines are the CTD station locations.

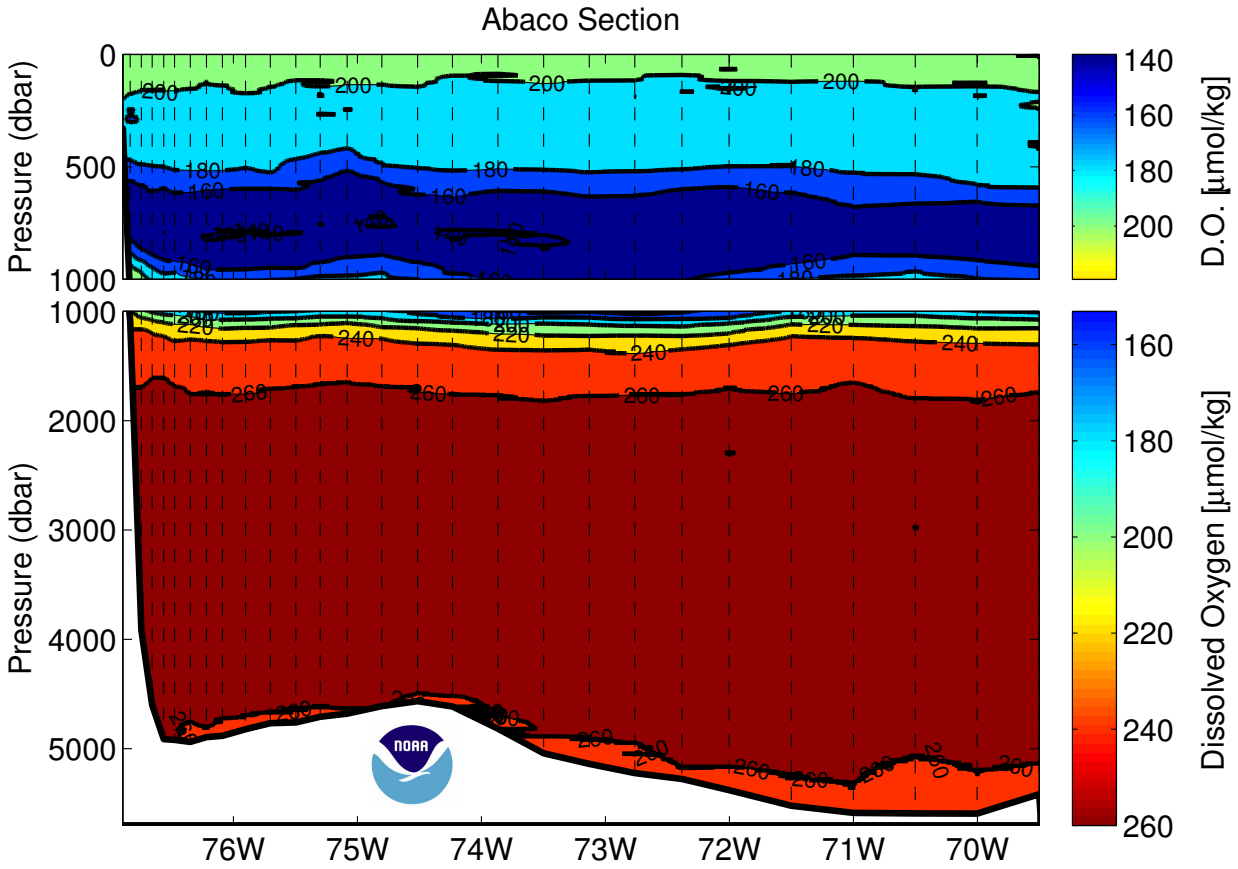

Figure 29: Dissolved Oxygen ($umol/kg$) section for the Abaco Section. Dashed vertical lines are the CTD station locations.

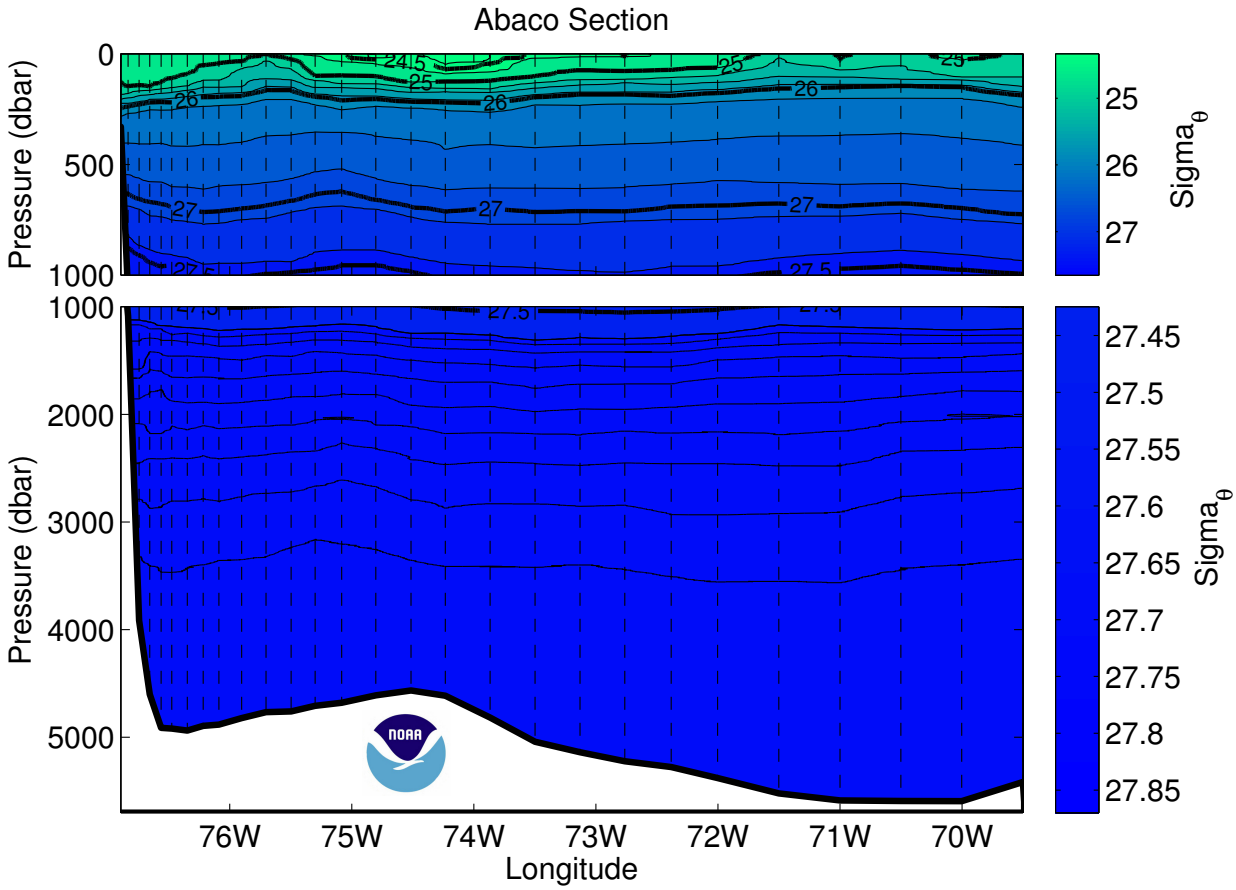

Figure 30: Neutral density (kg/m3) section for the Abaco Section. Dashed vertical lines are the CTD station locations.

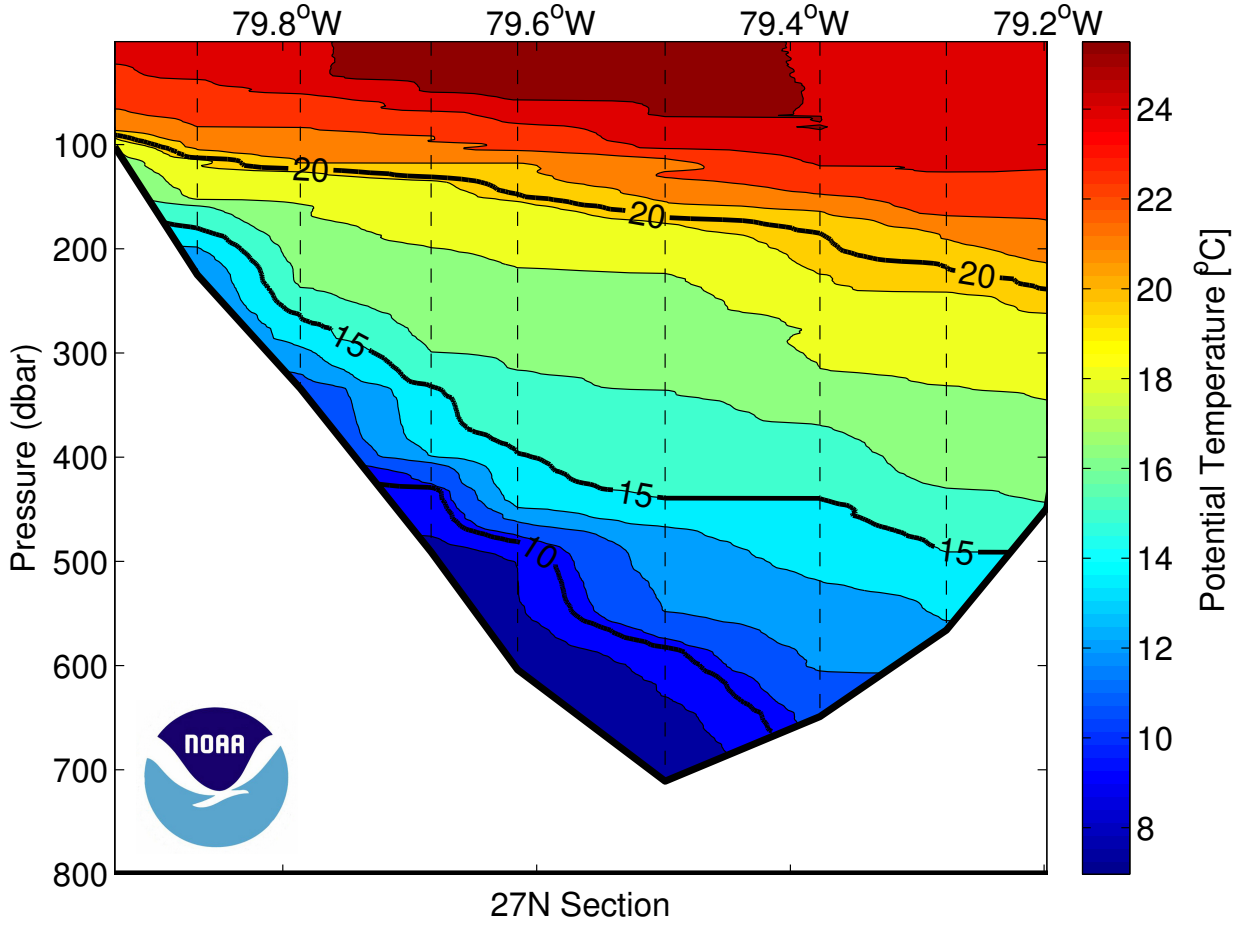

Figure 31: Potential Temperature (°C) section for the Florida Current North section. Dashed vertical lines are the CTD station locations.

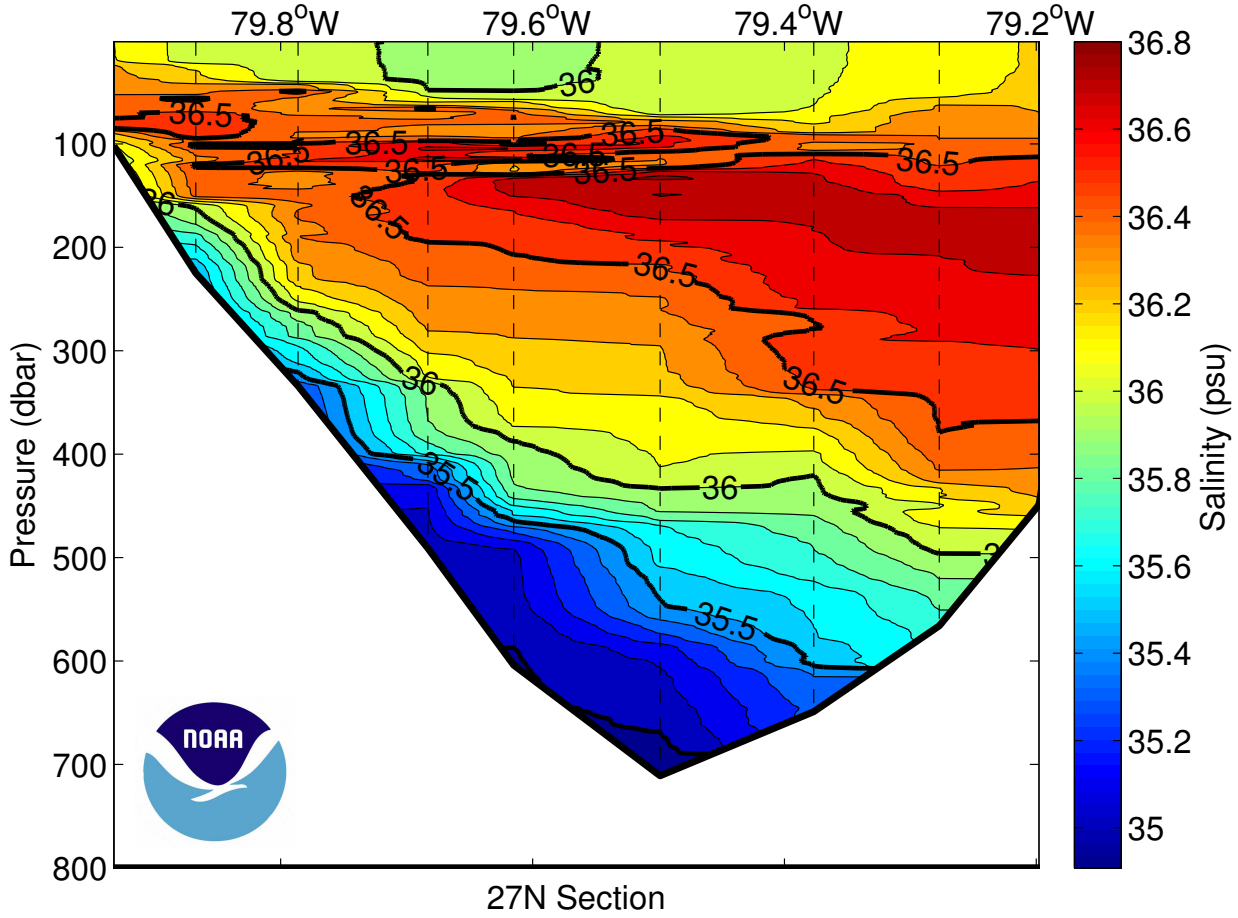

Figure 32: Salinity (PSS 78) section for the Florida Current North section. Dashed vertical lines are the CTD station locations.

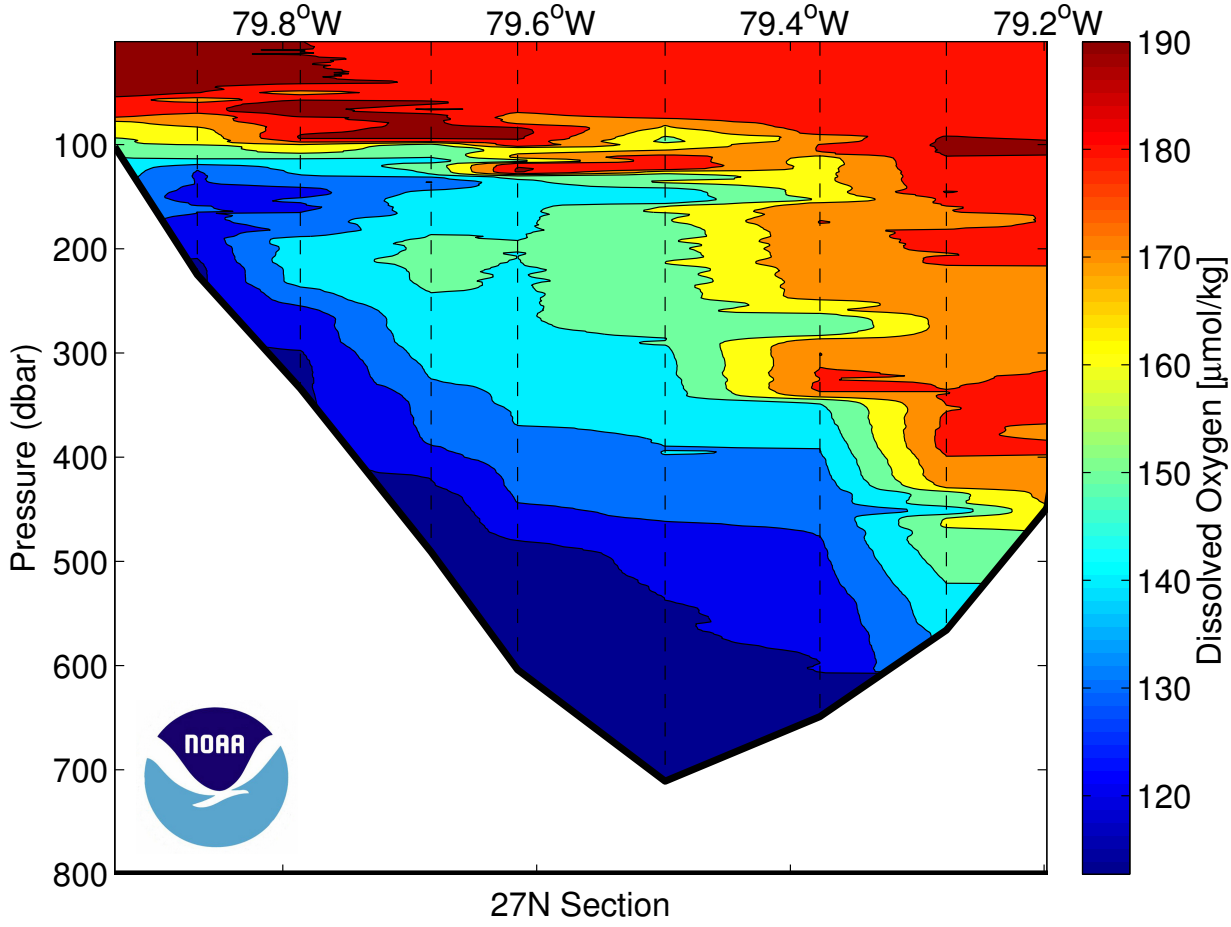

Figure 33: Dissolved Oxygen ($umol/kg$) section for the Florida Current North section. Dashed vertical lines are the CTD station locations.

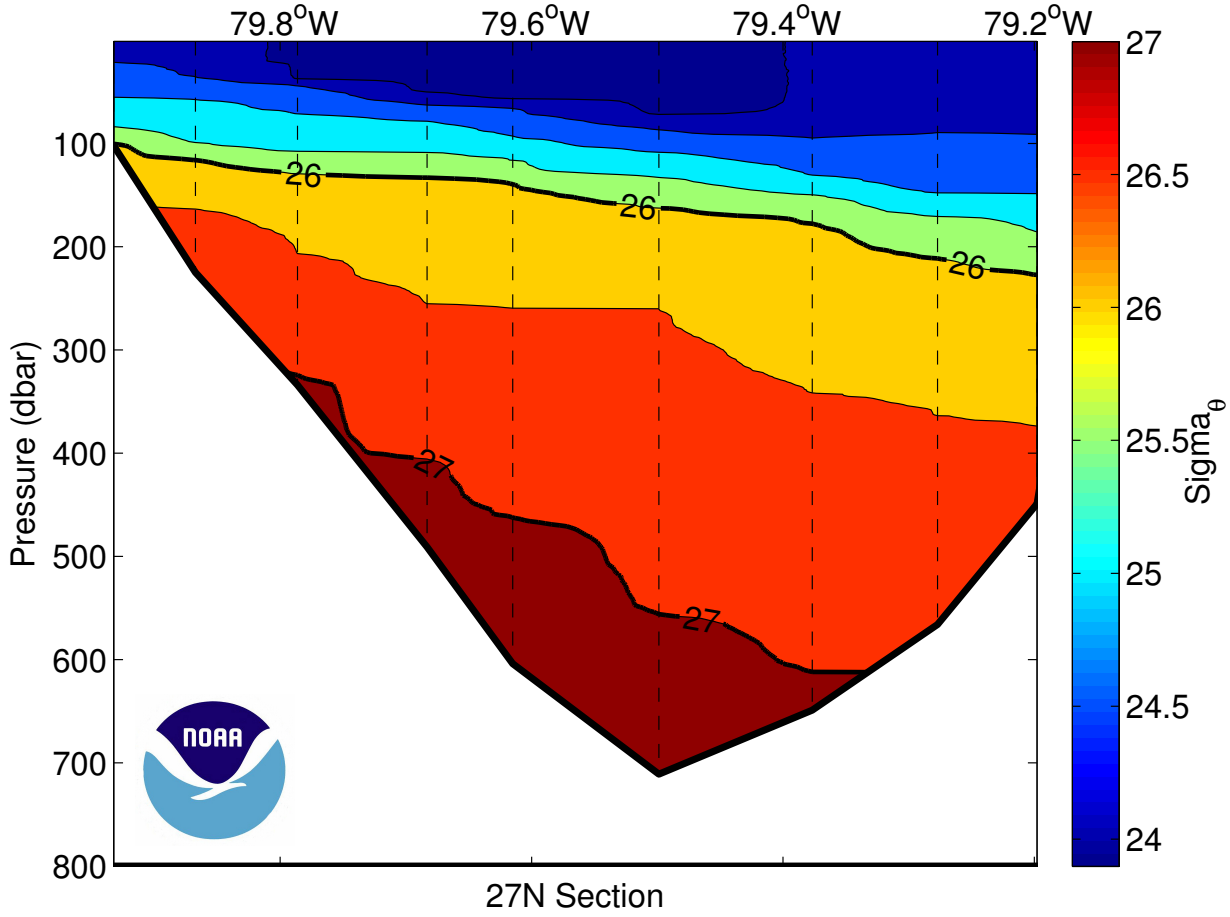

Figure 34: Neutral density (kg/m3) section for the Florida Current North section. Dashed vertical lines are the CTD station locations.

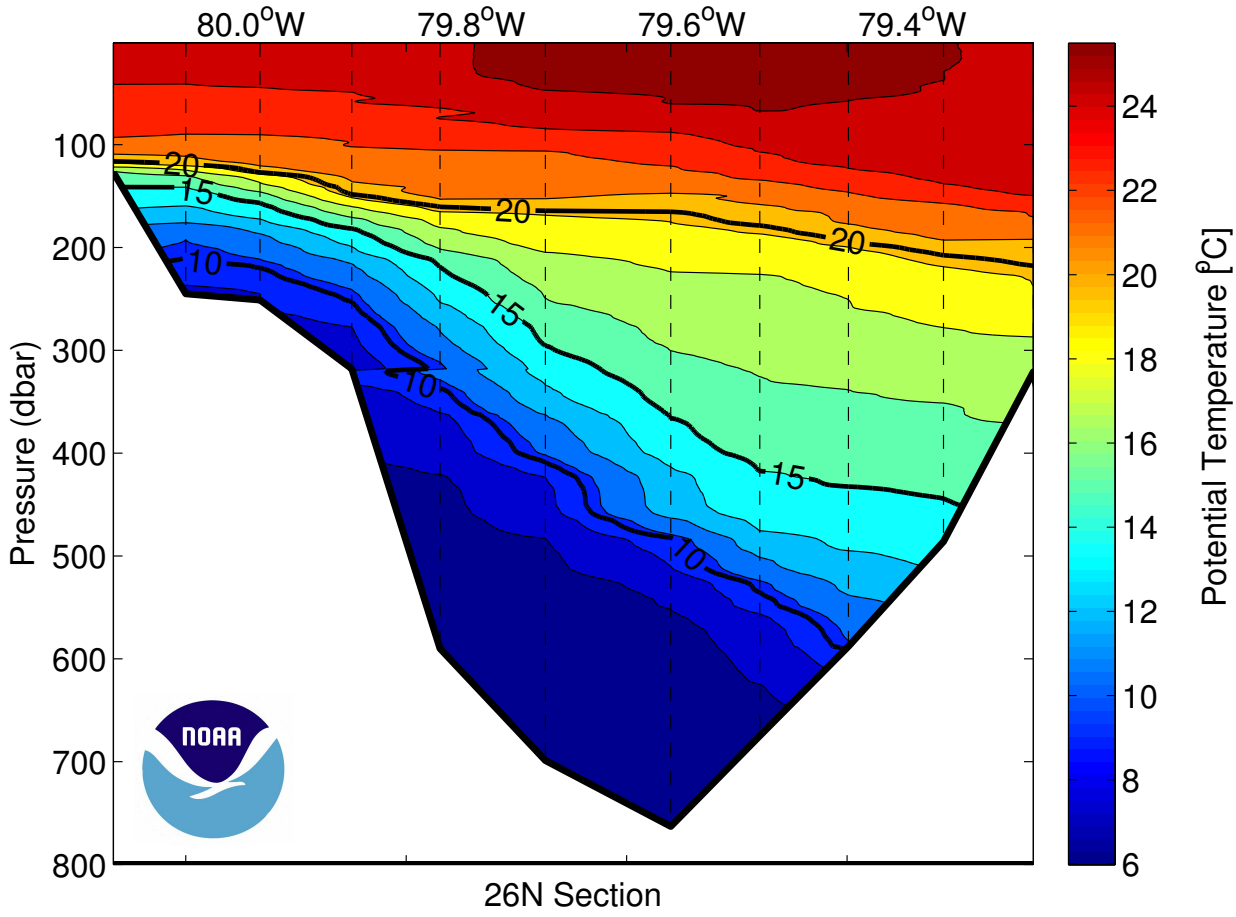

Figure 35: Potential Temperature (°C) section for the Florida Current South section. Contour intervals are 1°C. Dashed vertical lines are the CTD station locations.

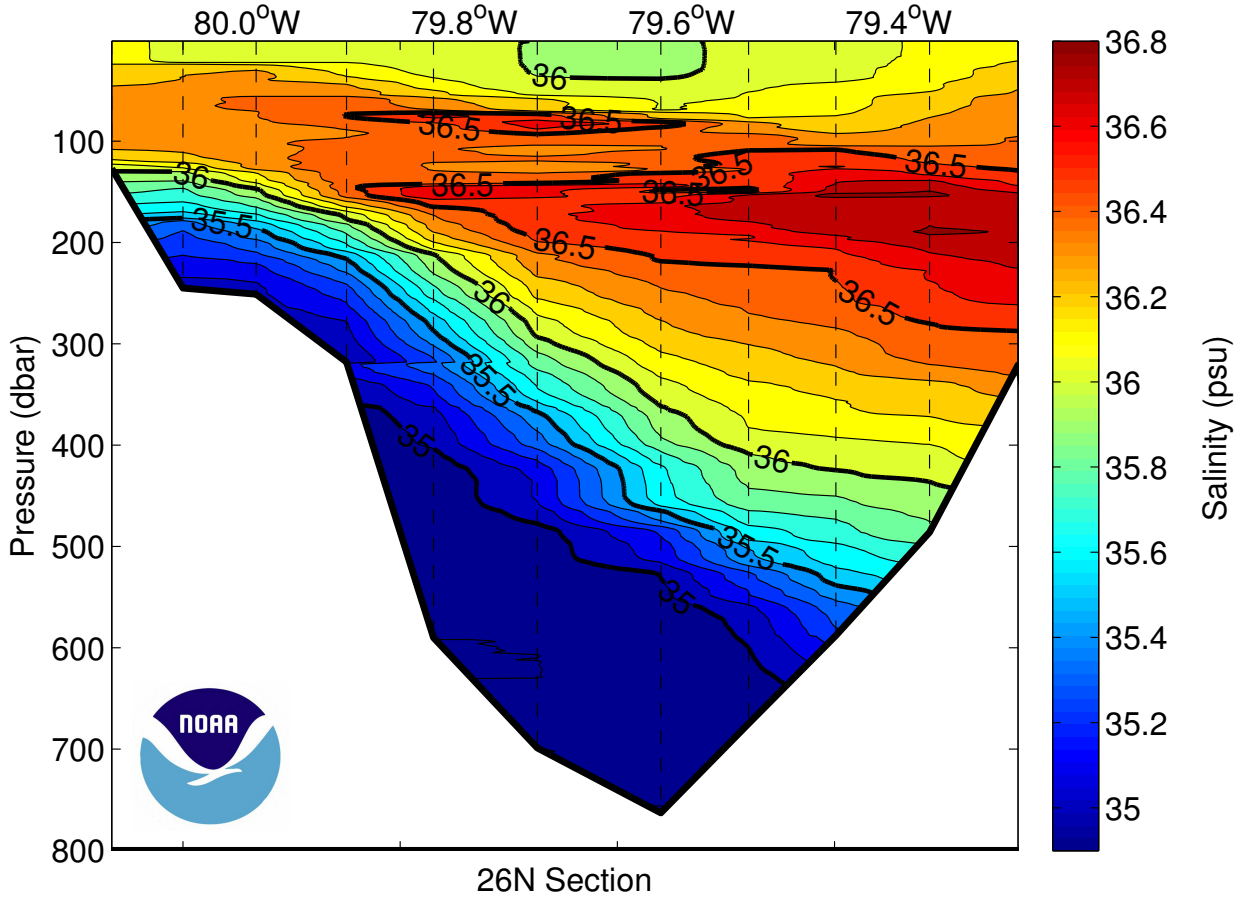

Figure 36: Salinity (PSS 78) section for the Florida Current South section. Contour intervals are 0.1. Dashed vertical lines are the CTD station locations.

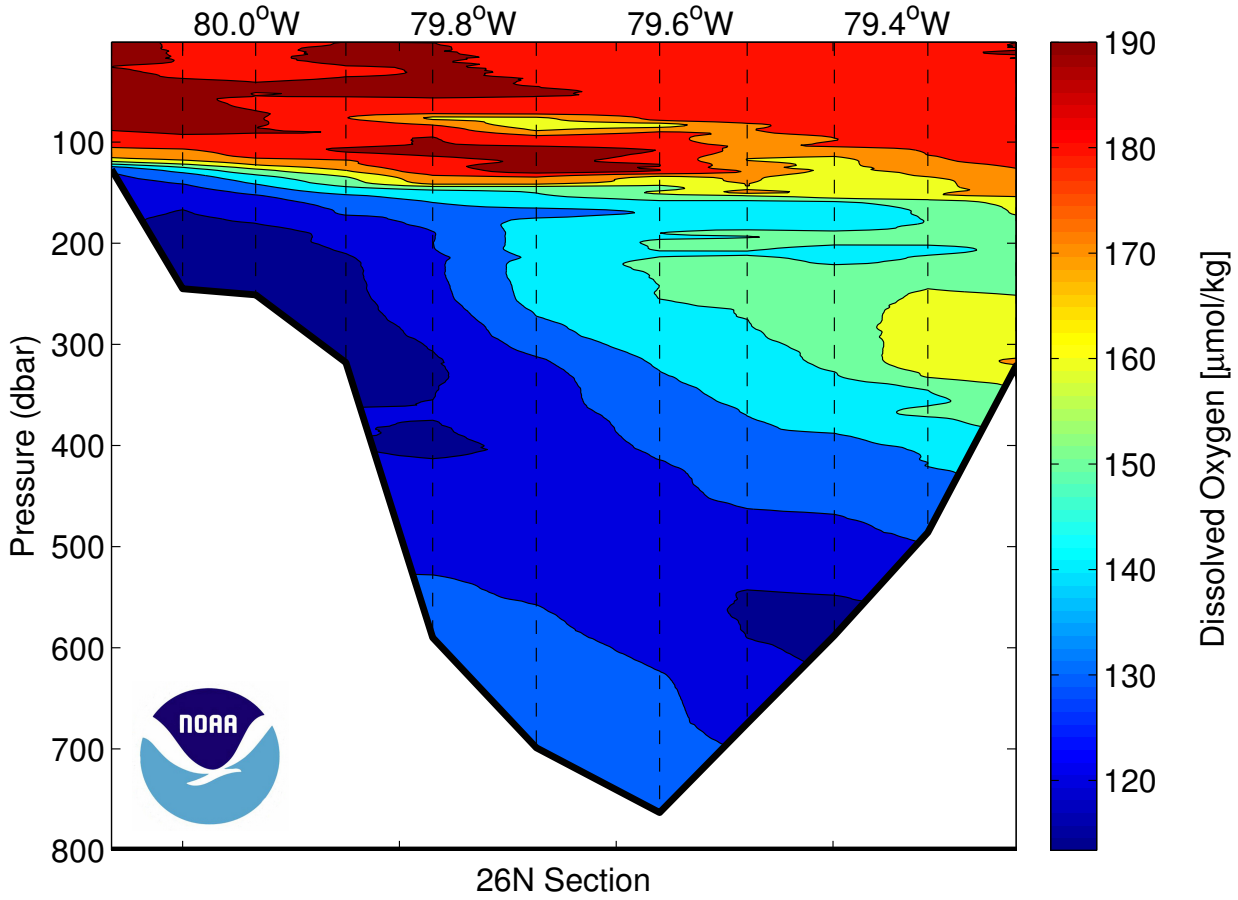

Figure 37: Dissolved Oxygen ($umol/kg$) section for the Florida Current South section. Contour intervals are ≈20 $umol/kg$. Dashed vertical lines are the CTD station locations.

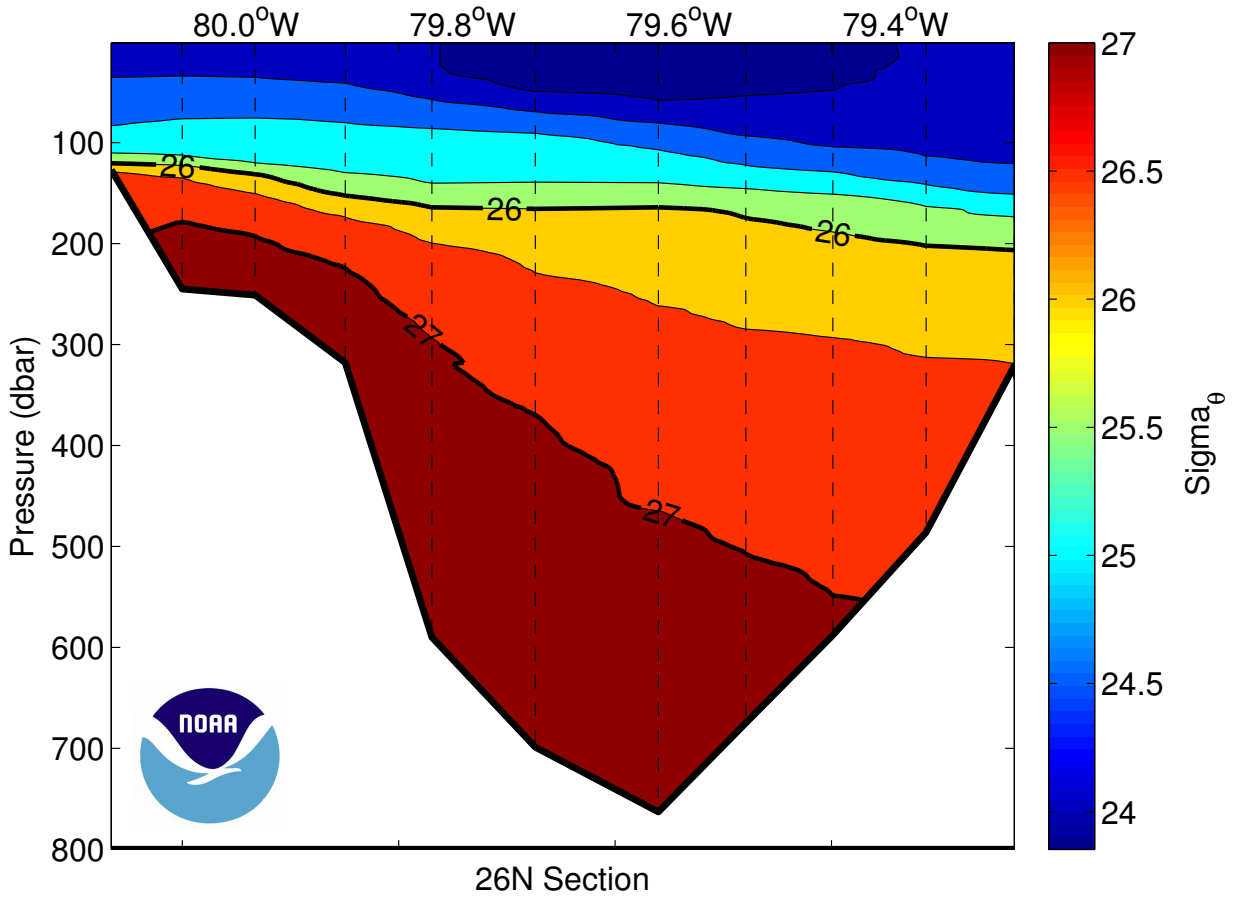

Figure 38: Neutral density (kg/m3) section for the Florida Current South section. Contour intervals are 0.1 kg/m3. Dashed vertical lines are the CTD station locations.

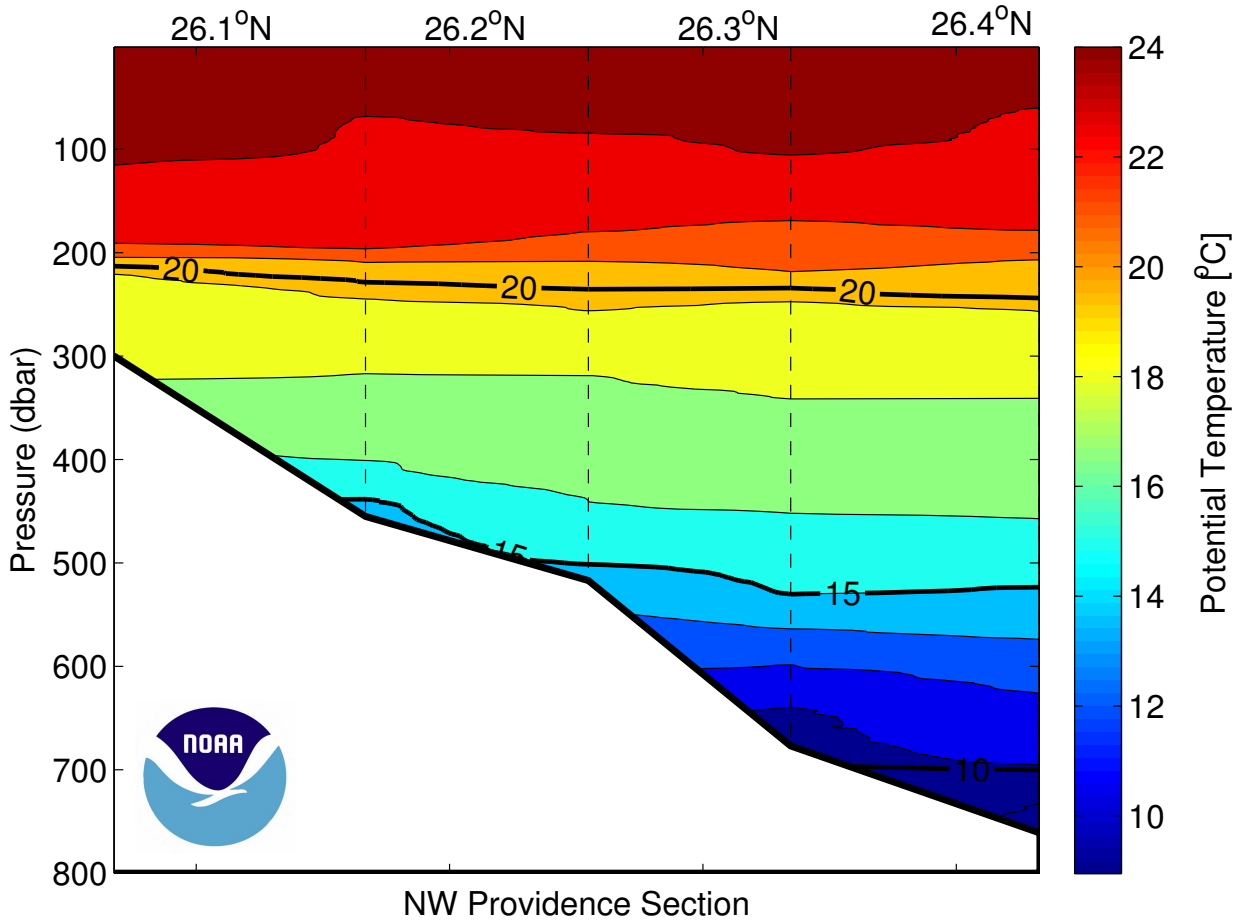

Figure 39: Potential Temperature (°C) section for the Northwest Providence Channel section. Dashed vertical lines are the CTD station locations.

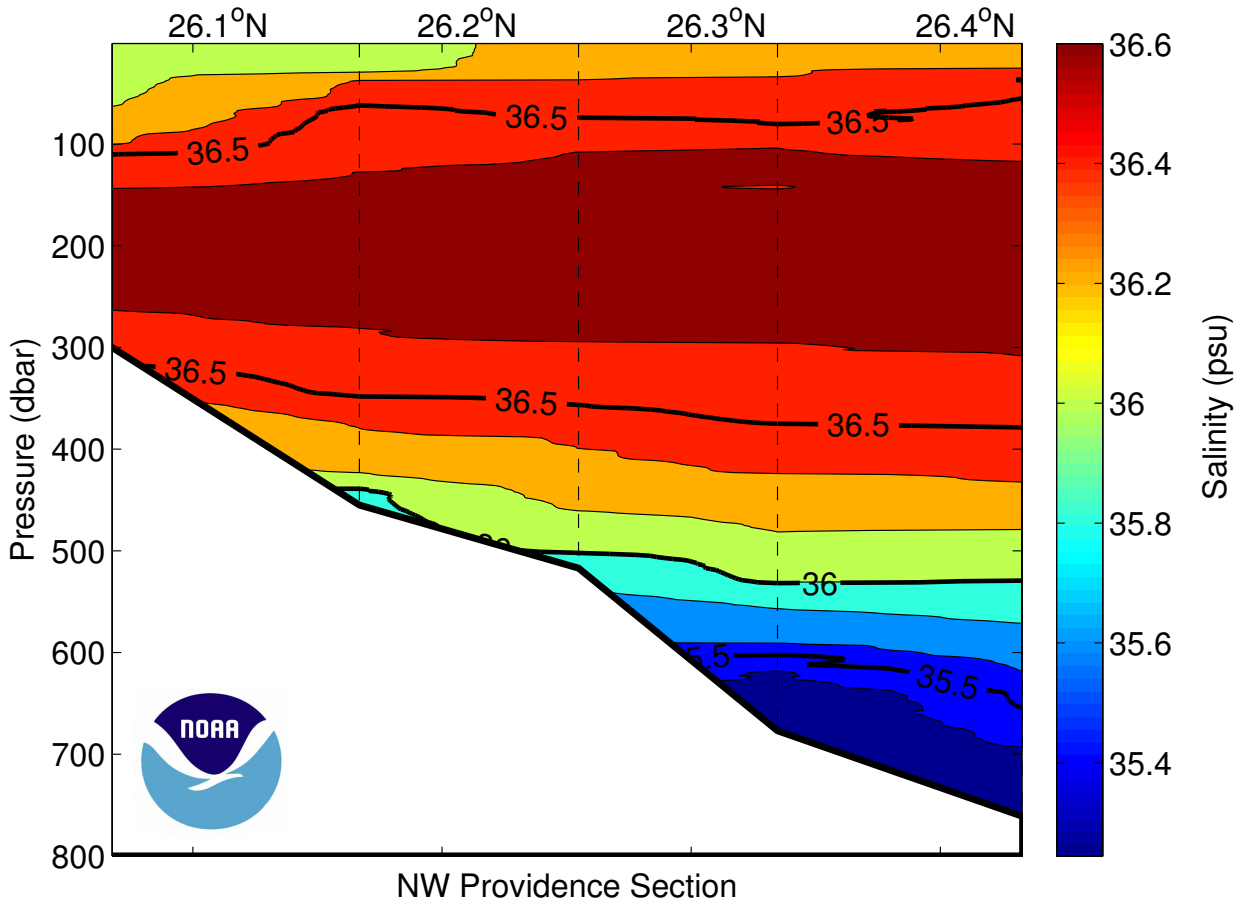

Figure 40: Salinity (PSS 78) section for the Northwest Providence Channel section. Dashed vertical lines are the CTD station locations.

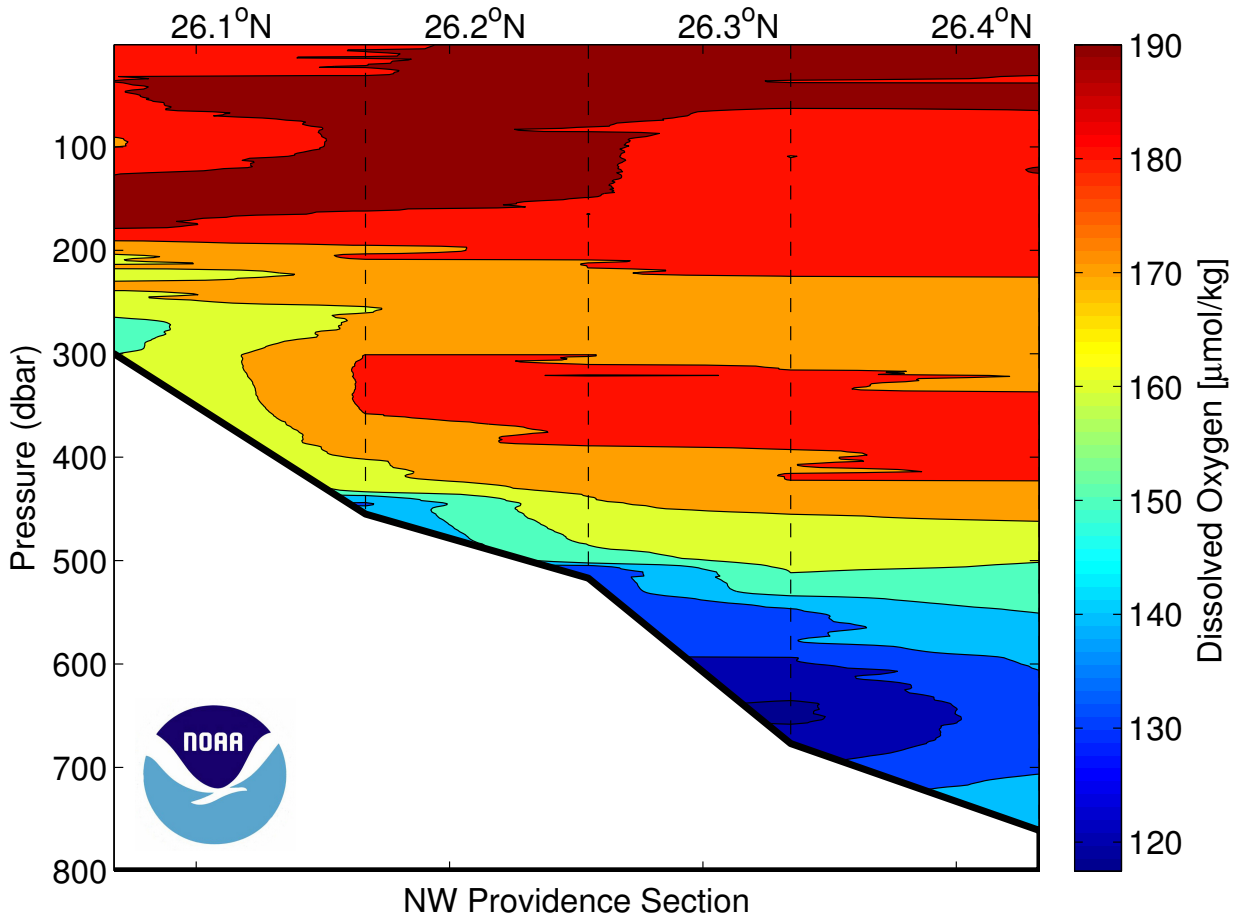

Figure 41: Dissolved Oxygen ($umol/kg$) section for the Northwest Providence Channel section. Dashed vertical lines are the CTD station locations.

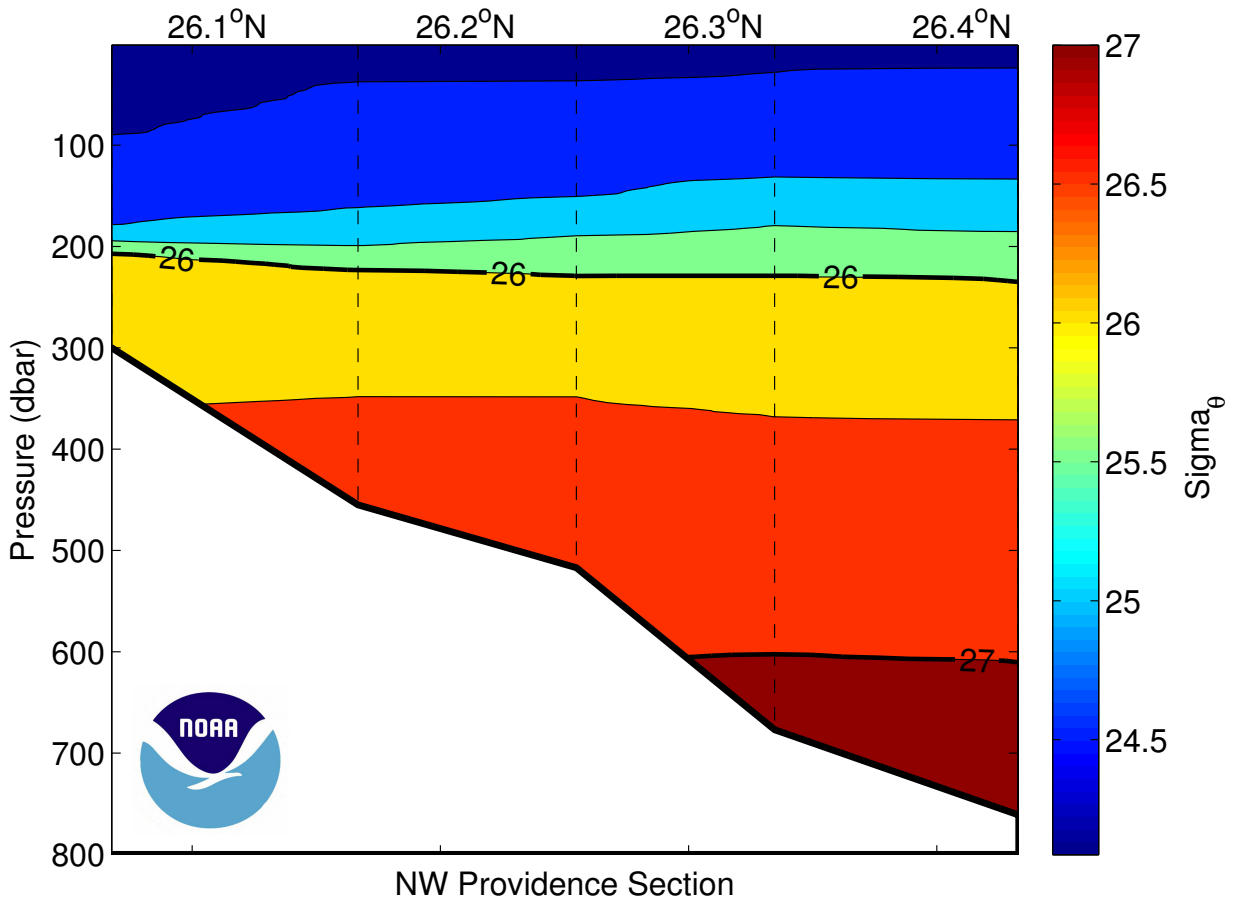

Figure 42: Neutral density (kg/m3) section for the Northwest Providence Channel section. Dashed vertical lines are the CTD station locations.

8 Acknowledgements

The successful completion of the cruise relied on dedicated assistance from many individuals on shore and on the NOAA ship Ronald H. Brown. Funded investigators in the project and members of the Western Boundary Time Series, and the RAPID/MOC programs were instrumental in planning and executing the cruise. The participants in the cruise showed dedication and camaraderie during their 15 days at sea. Officers and crew of the Ronald H. Brown exhibited a high degree of professionalism and assistance to accomplish the mission and to make us feel at home during the voyage.

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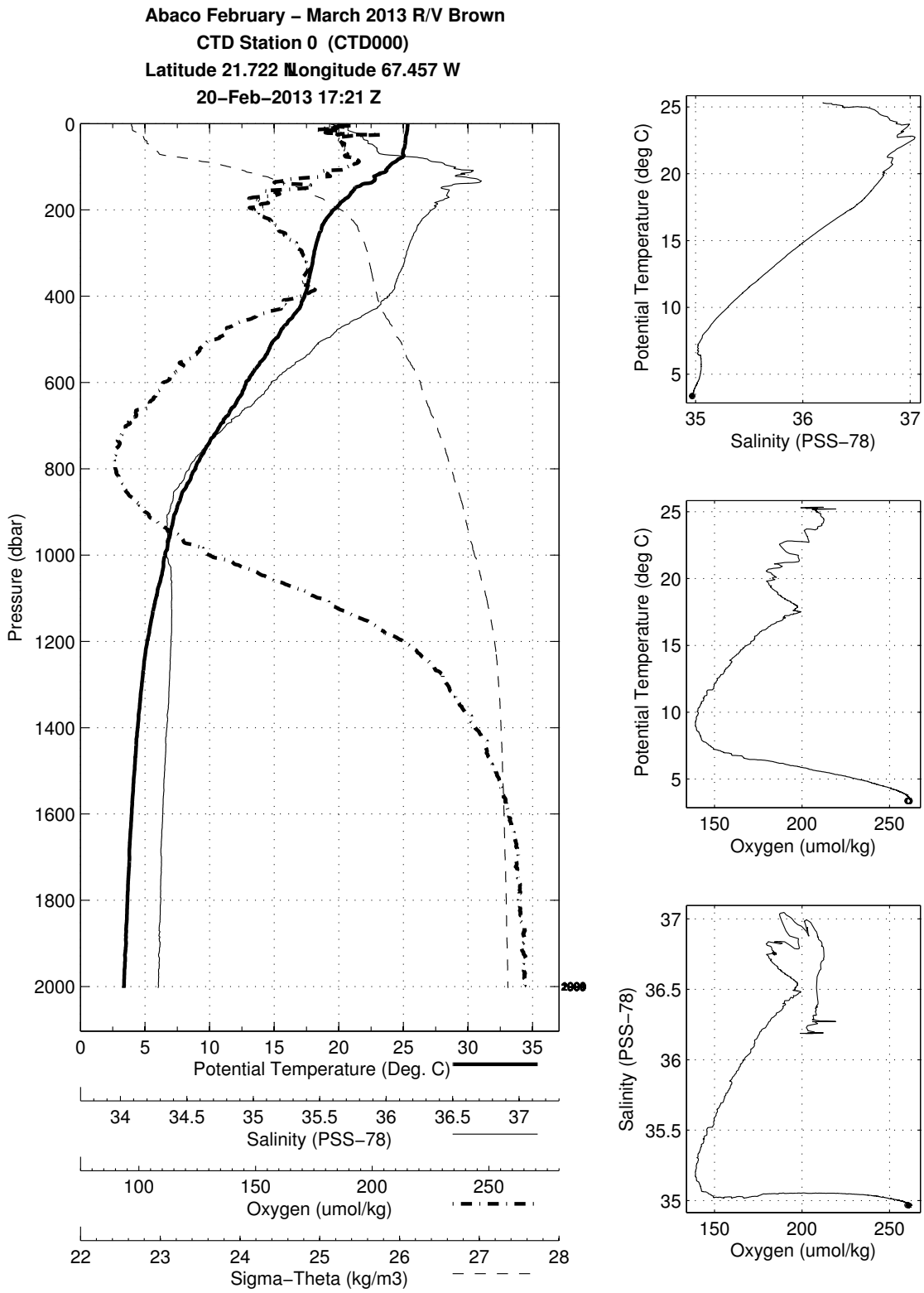
A Hydrographic - CTD Data

Abaco February - March 2013 R/V Brown
CTD Station 0 (CTD000)
Latitude 21.722N Longitude 67.457W
20-Feb-2013 17:21Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.340	25.340	36.190	204.6	0.004	24.137
10	25.311	25.309	36.188	206.1	0.038	24.144
20	25.267	25.263	36.224	202.6	0.075	24.186
30	25.191	25.185	36.279	208.2	0.112	24.252
50	25.130	25.119	36.351	208.1	0.185	24.327
75	25.027	25.010	36.533	208.4	0.274	24.497
100	23.905	23.884	36.870	209.2	0.353	25.092
125	22.802	22.777	36.959	197.7	0.421	25.485
150	21.254	21.225	36.790	195.7	0.481	25.795
200	19.625	19.588	36.727	181.0	0.584	26.189
250	18.626	18.581	36.622	188.9	0.674	26.368
300	18.143	18.090	36.565	195.6	0.759	26.449
400	17.401	17.333	36.445	195.3	0.925	26.543
500	15.134	15.057	36.035	169.3	1.080	26.758
600	12.901	12.817	35.693	153.8	1.215	26.967
700	10.881	10.793	35.400	142.7	1.334	27.125
800	8.969	8.880	35.165	139.5	1.437	27.267
900	7.468	7.376	35.037	148.4	1.527	27.395
1000	6.622	6.526	35.019	167.8	1.606	27.499
1100	5.943	5.842	35.054	200.9	1.674	27.616
1200	5.267	5.162	35.047	226.2	1.733	27.694
1300	4.860	4.749	35.037	239.1	1.785	27.734
1400	4.539	4.423	35.021	247.4	1.835	27.758
1500	4.303	4.179	35.007	253.5	1.884	27.773
1750	3.841	3.699	34.982	260.5	2.001	27.803
2000	3.517	3.357	34.967	262.3	2.114	27.825

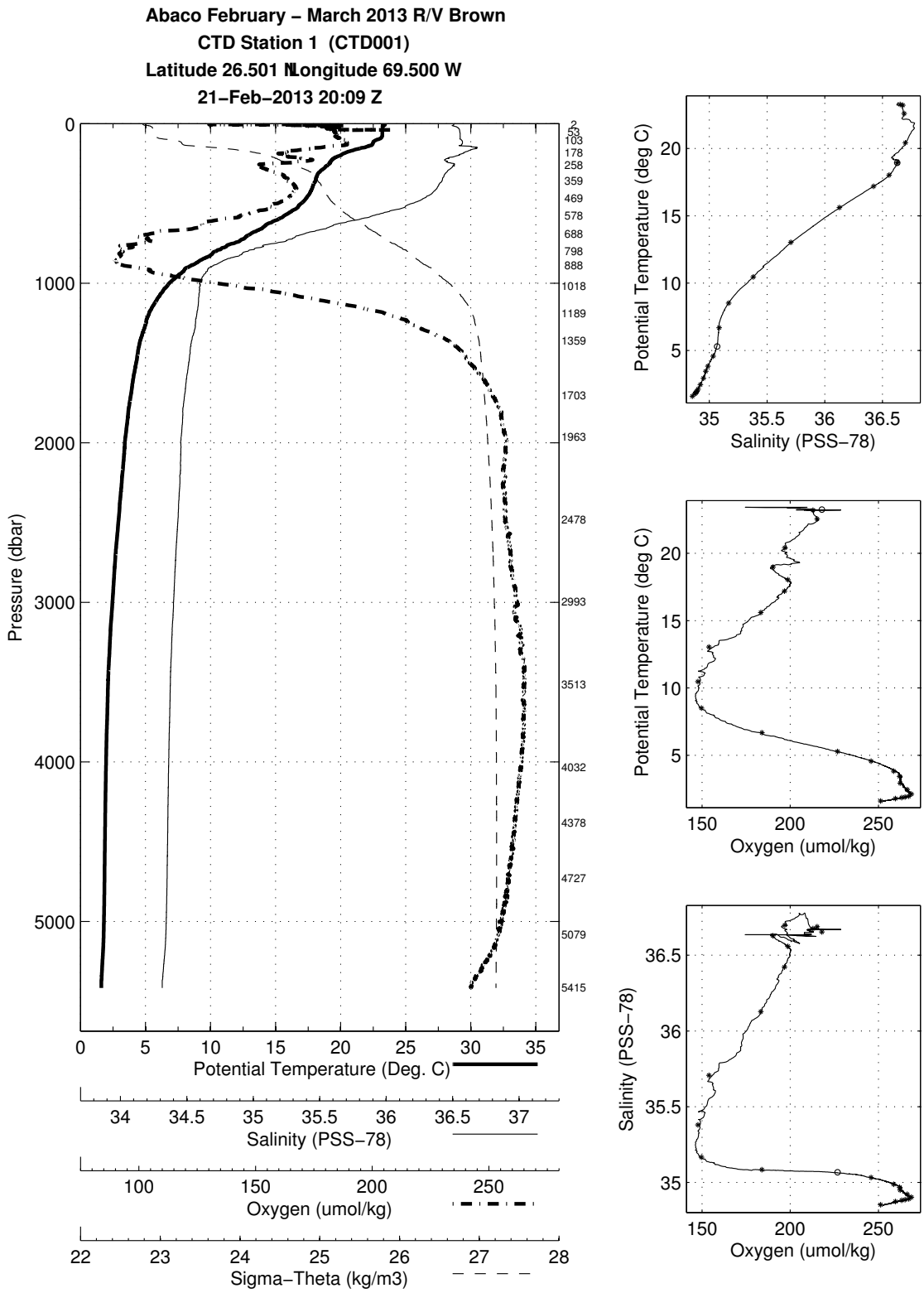
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
1999	1	3.522	3.362	34.968	260.7
1999	2	3.522	3.361	34.969	260.3
1999	3	3.520	3.360	34.966	260.5
1999	4	3.517	3.357	34.966	260.7
1999	5	3.516	3.356	34.965	260.9
2000	6	3.515	3.354	34.966	261.3
1999	7	3.513	3.353	34.967	261.0
2000	8	3.512	3.352	34.965	261.0
2000	9	3.512	3.352	34.965	261.0
2000	10	3.512	3.352	34.965	261.4
2000	11	3.512	3.352	34.965	261.3
2000	12	3.512	3.352	34.965	261.3
2000	13	3.512	6.591	−999.000	NaN
2000	14	3.511	6.591	−999.000	NaN
2000	15	3.511	6.591	−999.000	NaN
2000	16	3.511	6.591	−999.000	NaN
2001	17	3.511	6.591	−999.000	NaN
2001	18	3.511	6.591	−999.000	NaN
2001	19	3.510	6.591	−999.000	NaN
2001	20	3.511	6.591	−999.000	NaN
2001	21	3.511	6.591	−999.000	NaN
2001	22	3.510	6.591	−999.000	NaN
2001	23	3.510	6.591	−999.000	NaN
2001	24	3.510	6.591	−999.000	NaN


Abaco February – March 2013 R/V Brown
CTD Station 0 (CTD000)
Latitude 21.722 N Longitude 67.457 W
20–Feb–2013 17:21 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 1 (CTD001)
Latitude 26.501N Longitude 69.500W
21-Feb-2013 20:09Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.418	23.418	36.636	209.7	0.003	25.053
10	23.380	23.377	36.634	198.9	0.029	25.063
20	23.223	23.219	36.651	212.4	0.057	25.123
30	23.226	23.220	36.666	209.5	0.086	25.133
50	23.214	23.204	36.672	211.8	0.143	25.143
75	23.216	23.200	36.675	212.6	0.213	25.146
100	22.825	22.804	36.681	214.0	0.284	25.266
125	22.500	22.474	36.688	215.4	0.351	25.366
150	21.822	21.793	36.776	207.8	0.415	25.626
200	19.995	19.958	36.660	197.2	0.524	26.040
250	19.206	19.161	36.637	192.6	0.622	26.231
300	18.477	18.424	36.595	193.6	0.712	26.388
400	17.893	17.823	36.534	200.0	0.882	26.492
500	17.047	16.963	36.380	194.9	1.048	26.583
600	15.298	15.204	36.059	177.6	1.205	26.743
700	12.973	12.875	35.688	154.5	1.344	26.952
800	10.512	10.413	35.374	148.6	1.463	27.172
900	8.358	8.261	35.147	152.0	1.563	27.350
1000	6.933	6.835	35.081	176.9	1.644	27.506
1100	5.997	5.896	35.074	206.0	1.712	27.625
1200	5.329	5.223	35.062	228.4	1.770	27.698
1300	4.940	4.828	35.048	239.5	1.823	27.733
1400	4.595	4.477	35.024	248.4	1.873	27.754
1500	4.396	4.272	35.013	252.1	1.922	27.768
1750	3.918	3.776	34.983	260.2	2.042	27.796
2000	3.570	3.409	34.965	263.4	2.157	27.818
2500	3.105	2.903	34.946	263.1	2.380	27.851
3000	2.695	2.451	34.920	266.3	2.596	27.871
3500	2.411	2.121	34.901	268.5	2.808	27.883
4000	2.311	1.968	34.891	267.5	3.023	27.887
4500	2.279	1.879	34.884	265.1	3.247	27.889
5000	2.262	1.800	34.876	261.0	3.483	27.888

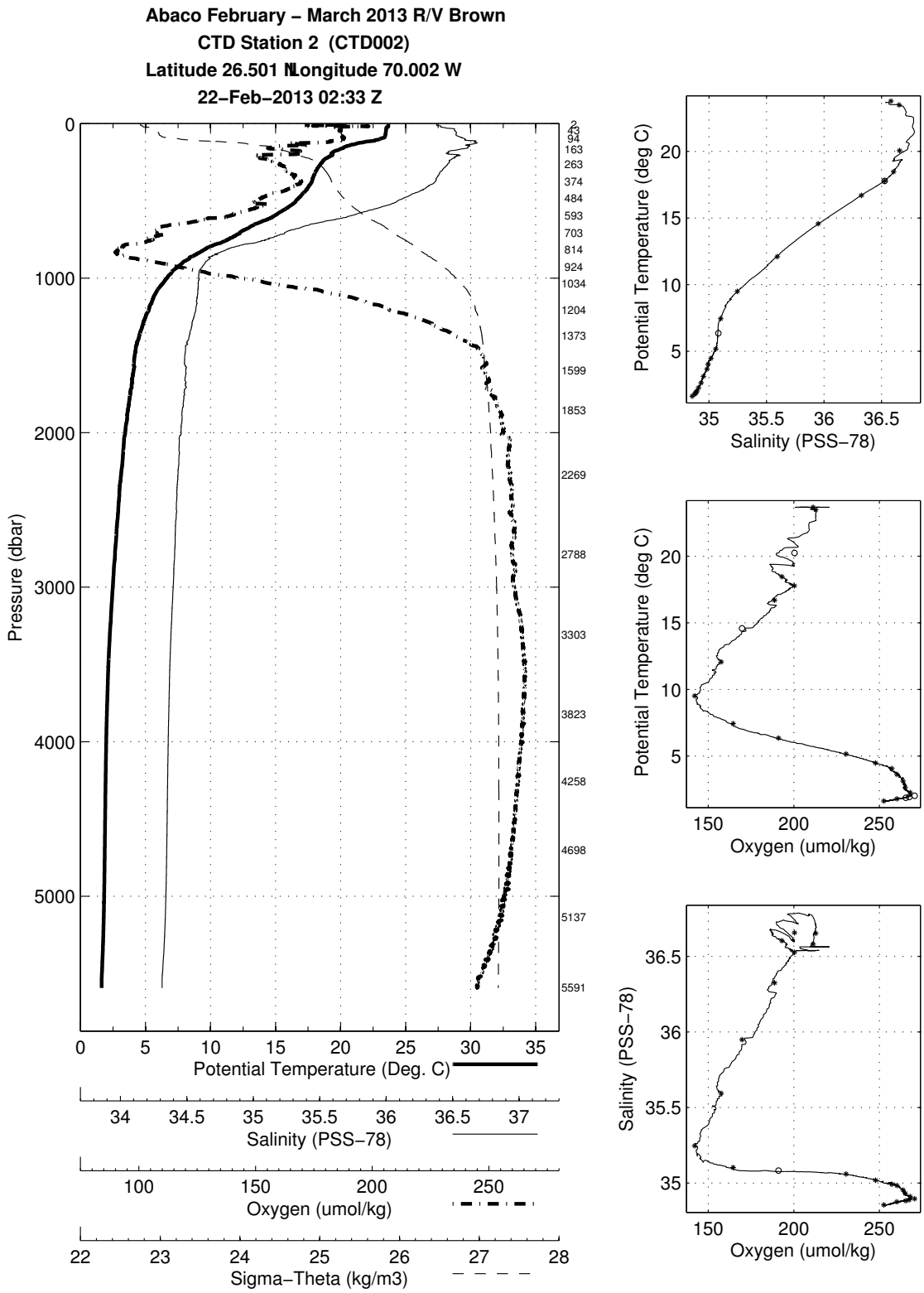
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5415	1	2.112	1.603	34.852	251.2
5079	2	2.253	1.782	34.874	259.6
4728	3	2.275	1.847	34.882	263.2
4378	4	2.281	1.895	34.886	265.2
4032	5	2.304	1.957	34.891	267.3
3513	6	2.414	2.123	34.902	268.7
2994	7	2.700	2.457	34.921	266.4
2479	8	3.134	2.934	34.949	262.3
1964	9	3.609	3.451	34.969	261.9
1704	10	3.965	3.827	34.987	258.7
1359	11	4.681	4.567	35.032	245.9
1189	12	5.402	5.297	35.067	226.8
1019	13	6.782	6.682	35.085	183.9
889	14	8.619	8.520	35.167	149.6
799	15	10.556	10.457	35.380	147.6
689	16	13.128	13.031	35.707	153.9
578	17	15.700	15.608	36.127	183.3
469	18	17.268	17.188	36.423	196.7
360	19	18.089	18.026	36.558	198.6
258	20	18.985	18.939	36.629	190.2
178	21	20.458	20.424	36.699	196.9
103	22	22.621	22.600	36.688	215.2
54	23	23.222	23.210	36.676	212.9
3	24	23.275	23.274	36.654	217.9


Abaco February – March 2013 R/V Brown
CTD Station 1 (CTD001)
Latitude 26.501 N Longitude 69.500 W
21–Feb–2013 20:09 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 2 (CTD002)
Latitude 26.501N Longitude 70.002W
22-Feb-2013 02:33Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.666	23.665	36.538	208.0	0.003	24.905
10	23.669	23.667	36.539	201.4	0.030	24.906
20	23.669	23.665	36.564	211.6	0.061	24.926
30	23.519	23.513	36.609	211.6	0.090	25.004
50	23.491	23.480	36.654	212.2	0.149	25.049
75	23.452	23.436	36.657	212.0	0.222	25.064
100	23.015	22.994	36.712	212.9	0.294	25.234
125	21.410	21.385	36.784	200.5	0.358	25.746
150	20.389	20.361	36.732	191.7	0.412	25.987
200	19.380	19.344	36.646	195.1	0.511	26.191
250	18.627	18.582	36.616	191.2	0.601	26.364
300	18.215	18.162	36.575	195.6	0.687	26.438
400	17.654	17.586	36.491	197.4	0.854	26.517
500	16.641	16.558	36.299	185.4	1.017	26.617
600	14.915	14.822	35.997	177.3	1.170	26.780
700	12.420	12.324	35.616	155.4	1.304	27.005
800	9.940	9.845	35.293	145.0	1.419	27.207
900	7.959	7.864	35.119	156.0	1.514	27.388
1000	6.715	6.618	35.079	180.4	1.592	27.534
1100	5.863	5.762	35.074	209.2	1.657	27.641
1200	5.371	5.265	35.061	226.6	1.714	27.692
1300	4.907	4.796	35.038	240.4	1.767	27.729
1400	4.535	4.418	35.014	249.3	1.818	27.752
1500	4.289	4.165	34.994	255.5	1.867	27.764
1750	3.976	3.833	34.994	258.6	1.987	27.798
2000	3.597	3.436	34.971	261.7	2.102	27.820
2500	3.102	2.900	34.943	264.7	2.326	27.849
3000	2.729	2.484	34.923	265.2	2.544	27.870
3500	2.435	2.145	34.903	268.3	2.758	27.882
4000	2.320	1.977	34.892	267.4	2.974	27.887
4500	2.295	1.894	34.886	265.5	3.198	27.888
5000	2.279	1.817	34.878	262.0	3.434	27.888
5500	2.168	1.645	34.857	255.7	3.680	27.885

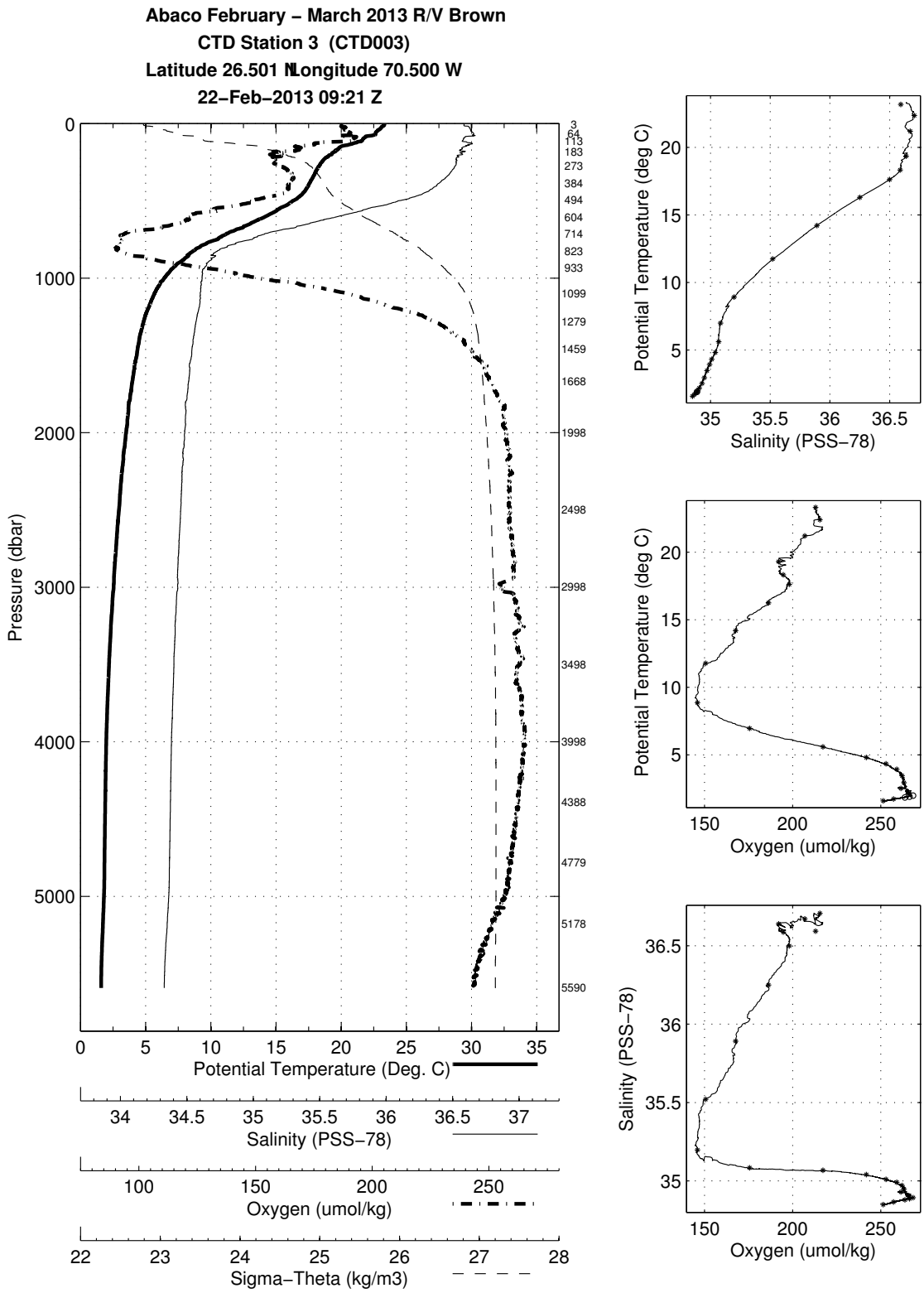
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5591	1	2.163	1.629	34.855	252.7
5138	2	2.265	1.786	34.876	260.1
4699	3	2.291	1.866	34.882	265.5
4258	4	2.303	1.931	34.889	267.5
3824	5	2.350	2.026	34.895	270.6
3304	6	2.539	2.267	34.910	268.0
2789	7	2.864	2.638	34.932	265.1
2270	8	3.308	3.125	34.953	263.8
1854	9	3.808	3.657	34.983	260.3
1600	10	4.152	4.021	34.992	257.3
1373	11	4.587	4.472	35.018	247.7
1204	12	5.276	5.171	35.060	230.5
1034	13	6.447	6.348	35.082	191.1
924	14	7.543	7.448	35.102	164.6
815	15	9.591	9.495	35.246	142.1
704	16	12.198	12.103	35.594	157.5
594	17	14.665	14.575	35.949	169.8
485	18	16.780	16.700	36.326	188.7
374	19	17.846	17.782	36.527	200.3
263	20	18.518	18.472	36.604	193.0
164	21	20.092	20.062	36.657	200.4
95	22	23.026	23.096	−999.000	NaN
43	23	23.496	23.487	36.653	212.8
3	24	23.774	23.773	36.582	211.3


Abaco February – March 2013 R/V Brown
CTD Station 2 (CTD002)
Latitude 26.501 N Longitude 70.002 W
22–Feb–2013 02:33 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 3 (CTD003)
Latitude 26.501N Longitude 70.500W
22-Feb-2013 09:21Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.317	23.316	36.641	212.6	0.003	25.087
10	23.305	23.303	36.639	212.7	0.029	25.089
20	23.104	23.100	36.669	213.1	0.057	25.171
30	23.028	23.022	36.674	213.4	0.085	25.198
50	22.744	22.734	36.685	214.6	0.139	25.289
75	22.451	22.436	36.691	214.9	0.206	25.380
100	21.681	21.661	36.636	216.9	0.269	25.557
125	21.056	21.032	36.681	205.8	0.329	25.765
150	19.980	19.952	36.639	199.6	0.382	26.026
200	19.304	19.268	36.631	191.2	0.480	26.199
250	18.535	18.491	36.593	192.8	0.570	26.370
300	18.162	18.110	36.571	196.5	0.656	26.448
400	17.564	17.495	36.478	196.7	0.822	26.529
500	16.344	16.262	36.245	185.0	0.984	26.645
600	14.317	14.227	35.892	168.1	1.132	26.828
700	11.593	11.501	35.492	149.1	1.261	27.066
800	9.220	9.129	35.220	145.5	1.368	27.269
900	7.637	7.545	35.107	161.5	1.457	27.426
1000	6.514	6.419	35.076	188.0	1.531	27.558
1100	5.777	5.677	35.065	214.4	1.594	27.645
1200	5.278	5.173	35.056	230.1	1.651	27.699
1300	4.898	4.787	35.036	242.0	1.704	27.729
1400	4.614	4.496	35.021	249.0	1.755	27.750
1500	4.440	4.315	35.013	252.2	1.805	27.763
1750	3.974	3.831	34.987	259.0	1.925	27.793
2000	3.661	3.498	34.972	261.7	2.042	27.815
2500	3.153	2.950	34.948	262.8	2.268	27.848
3000	2.789	2.543	34.930	260.9	2.488	27.870
3500	2.482	2.190	34.907	265.7	2.704	27.882
4000	2.320	1.977	34.892	267.0	2.920	27.887
4500	2.281	1.880	34.885	264.5	3.145	27.889
5000	2.260	1.799	34.876	261.1	3.380	27.888
5500	2.117	1.597	34.851	252.6	3.623	27.883

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5590	1	2.116	1.584	34.850	251.3
5178	2	2.202	1.721	34.866	257.2
4780	3	2.275	1.841	34.880	263.6
4388	4	2.286	1.899	34.886	266.3
3999	5	2.324	1.980	34.893	268.3
3499	6	2.478	2.187	34.907	265.9
2998	7	2.773	2.528	34.929	261.4
2499	8	3.147	2.945	34.949	263.1
1999	9	3.636	3.474	34.971	262.0
1669	10	4.060	3.923	34.992	259.0
1459	11	4.435	4.314	35.010	253.0
1280	12	4.929	4.819	35.040	241.8
1099	13	5.714	5.615	35.068	217.1
934	14	7.081	6.988	35.084	175.6
823	15	9.001	8.908	35.197	146.0
714	16	11.837	11.742	35.521	150.6
605	17	14.302	14.212	35.891	167.6
494	18	16.373	16.292	36.250	186.3
384	19	17.682	17.616	36.499	198.0
274	20	18.371	18.323	36.588	194.7
183	21	19.375	19.342	36.639	192.0
114	22	21.209	21.187	36.672	206.9
64	23	22.363	22.350	36.707	215.4
3	24	23.175	23.174	36.593	213.0

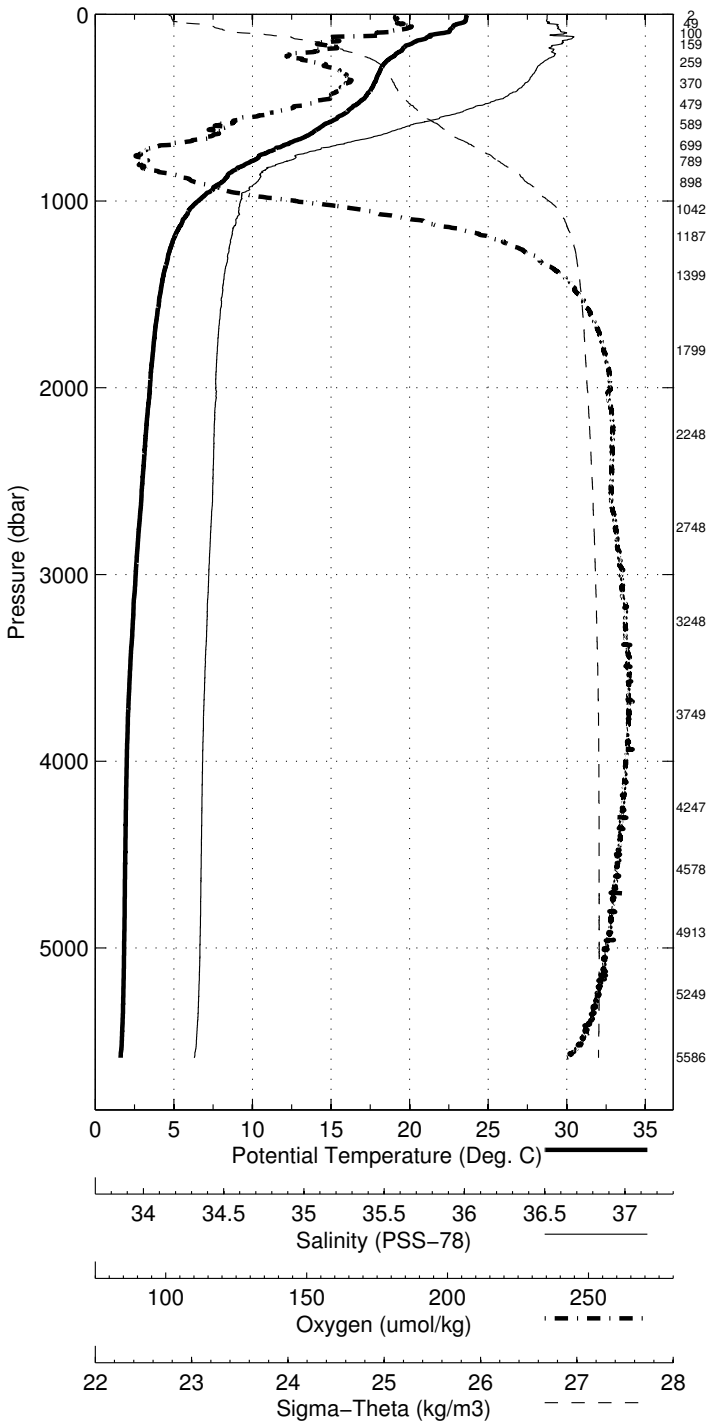

Abaco February – March 2013 R/V Brown
CTD Station 3 (CTD003)
Latitude 26.501 N Longitude 70.500 W
22–Feb–2013 09:21 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

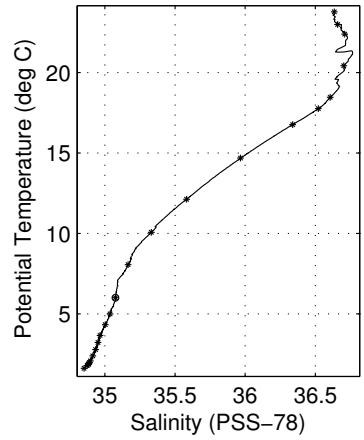
Abaco February - March 2013 R/V Brown
CTD Station 4 (CTD004)
Latitude 26.500N Longitude 70.999W
22-Feb-2013 16:00Z

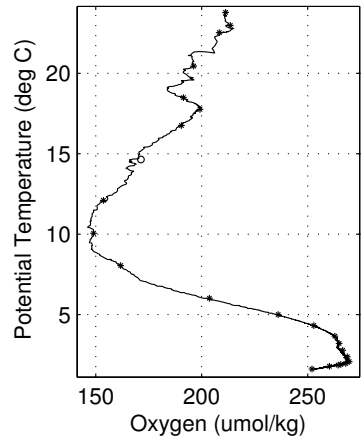
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.660	23.660	36.631	210.6	0.003	24.978
10	23.612	23.610	36.630	210.8	0.030	24.992
20	23.602	23.598	36.630	210.9	0.059	24.995
30	23.581	23.575	36.629	211.1	0.089	25.001
50	23.144	23.134	36.640	212.3	0.147	25.139
75	22.680	22.665	36.683	213.7	0.216	25.308
100	22.220	22.200	36.729	206.2	0.282	25.476
125	21.119	21.095	36.760	194.4	0.340	25.808
150	20.308	20.279	36.712	193.3	0.394	25.994
200	19.394	19.358	36.652	190.6	0.493	26.192
250	18.599	18.554	36.618	190.0	0.583	26.373
300	18.189	18.137	36.573	196.7	0.669	26.444
400	17.626	17.557	36.487	196.5	0.836	26.521
500	16.424	16.342	36.259	185.4	0.997	26.637
600	14.498	14.407	35.923	167.8	1.147	26.813
700	12.119	12.025	35.568	154.7	1.281	27.026
800	9.709	9.615	35.277	147.4	1.392	27.234
900	8.139	8.043	35.167	161.1	1.483	27.398
1000	6.638	6.541	35.085	185.8	1.560	27.549
1100	5.668	5.569	35.060	215.2	1.623	27.655
1200	5.109	5.006	35.037	234.8	1.679	27.704
1300	4.738	4.628	35.020	245.3	1.731	27.734
1400	4.447	4.331	35.002	252.1	1.781	27.753
1500	4.247	4.124	34.992	256.1	1.830	27.767
1750	3.877	3.735	34.970	261.8	1.949	27.790
2000	3.632	3.470	34.959	263.9	2.066	27.808
2500	3.208	3.005	34.946	264.2	2.296	27.842
3000	2.821	2.574	34.925	266.6	2.521	27.863
3500	2.516	2.224	34.906	269.2	2.741	27.878
4000	2.348	2.004	34.893	267.7	2.960	27.886
4500	2.313	1.912	34.887	265.9	3.186	27.888
5000	2.300	1.837	34.880	263.0	3.423	27.888
5500	2.213	1.689	34.862	256.5	3.671	27.885

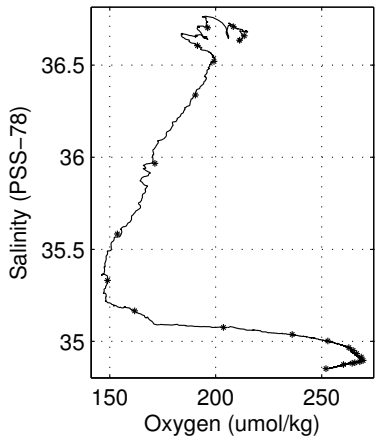
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5587	1	2.142	1.609	34.852	252.0
5249	2	2.283	1.789	34.874	260.3
4913	3	2.307	1.855	34.882	264.4
4578	4	2.307	1.896	34.884	265.7
4248	5	2.324	1.953	34.889	268.0
3749	6	2.394	2.077	34.897	269.6
3249	7	2.651	2.381	34.914	268.7
2748	8	3.003	2.778	34.933	266.5
2248	9	3.394	3.212	34.951	264.8
1799	10	3.801	3.656	34.966	262.9
1399	11	4.445	4.330	35.003	252.9
1187	12	5.098	4.995	35.037	236.1
1042	13	6.096	5.999	35.076	203.6
899	14	8.147	8.050	35.166	161.8
790	15	10.164	10.068	35.331	148.9
699	16	12.218	12.124	35.583	153.6
589	17	14.770	14.680	35.966	171.3
480	18	16.843	16.763	36.338	190.4
370	19	17.819	17.755	36.521	199.2
259	20	18.505	18.459	36.606	191.4
159	21	20.453	20.423	36.703	196.2
100	22	22.409	22.388	36.709	208.3
50	23	22.999	22.989	36.659	213.5
3	24	23.776	23.775	36.635	211.3

Abaco February – March 2013 R/V Brown
CTD Station 4 (CTD004)
Latitude 26.500 N Longitude 70.999 W
22–Feb–2013 16:00 Z







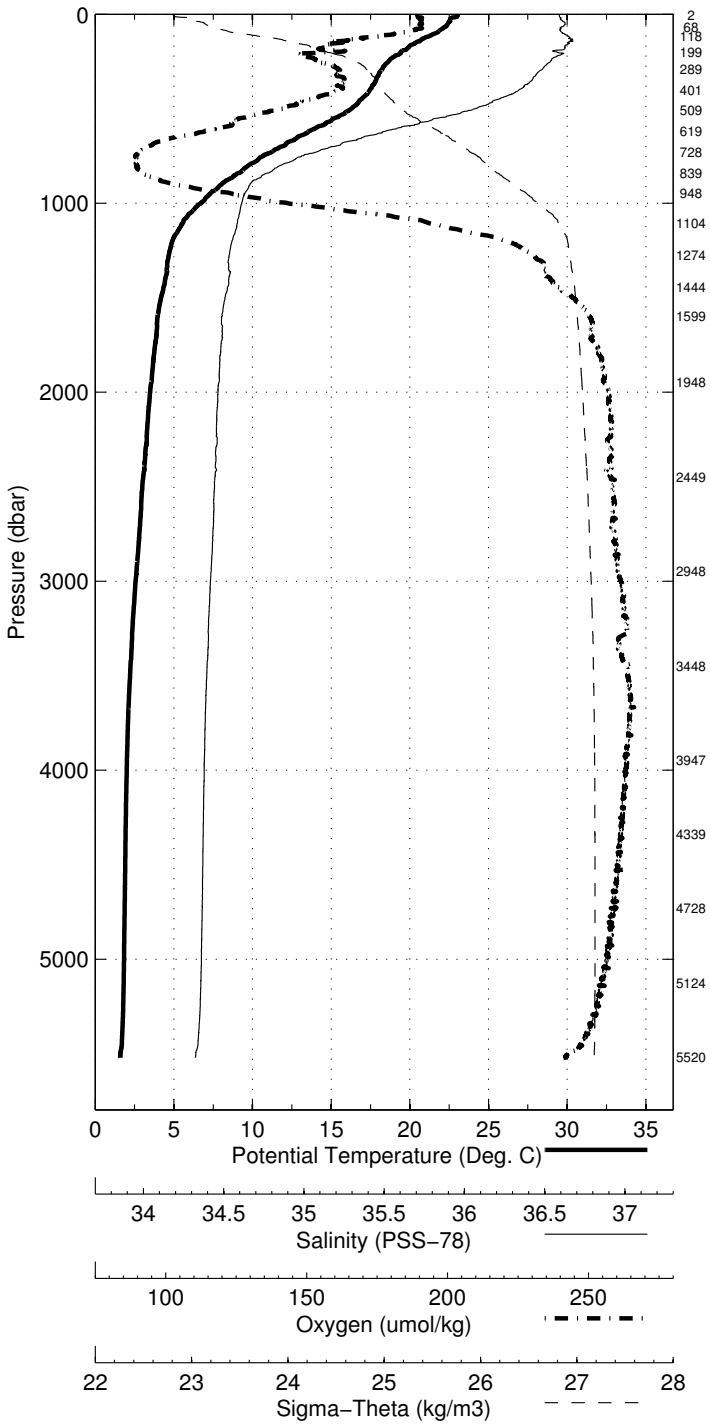


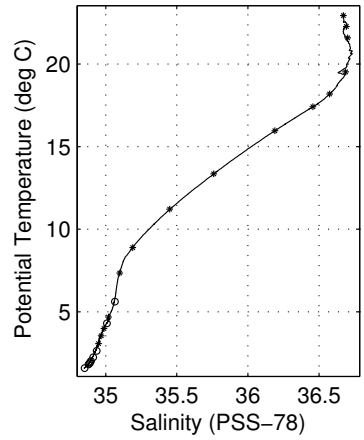
Abaco February - March 2013 R/V Brown
CTD Station 5 (CTD005)
Latitude 26.501N Longitude 71.501W
22-Feb-2013 22:49Z

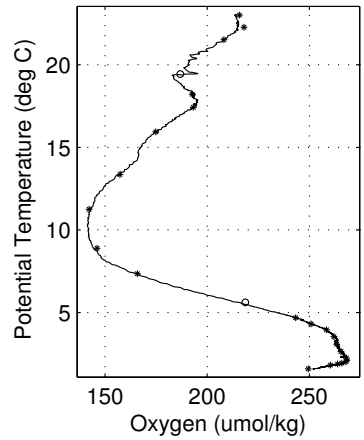
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.037	23.037	36.667	213.8	0.003	25.188
10	23.017	23.015	36.667	213.5	0.028	25.194
20	22.624	22.620	36.675	214.9	0.055	25.314
30	22.553	22.547	36.676	214.7	0.081	25.336
50	22.425	22.415	36.696	214.8	0.134	25.389
75	22.116	22.101	36.677	215.1	0.198	25.464
100	21.681	21.661	36.681	209.9	0.260	25.591
125	20.962	20.938	36.721	199.5	0.318	25.822
150	20.404	20.376	36.707	194.9	0.372	25.964
200	19.480	19.443	36.655	191.9	0.472	26.171
250	18.691	18.646	36.623	188.6	0.563	26.353
300	18.186	18.134	36.567	192.5	0.649	26.440
400	17.529	17.460	36.466	193.2	0.816	26.528
500	16.355	16.274	36.245	179.6	0.977	26.642
600	14.151	14.062	35.869	163.9	1.125	26.846
700	11.898	11.805	35.532	145.1	1.254	27.040
800	9.830	9.735	35.274	142.0	1.365	27.211
900	8.128	8.032	35.122	152.0	1.461	27.365
1000	6.820	6.723	35.081	180.8	1.540	27.521
1100	5.693	5.594	35.060	216.3	1.605	27.651
1200	5.005	4.902	35.032	237.2	1.660	27.712
1300	4.732	4.623	35.014	245.0	1.712	27.730
1400	4.578	4.461	35.016	248.0	1.762	27.749
1500	4.300	4.177	34.996	253.9	1.812	27.765
1750	3.945	3.802	34.977	259.6	1.932	27.789
2000	3.654	3.491	34.962	262.8	2.050	27.807
2500	3.196	2.993	34.945	263.8	2.281	27.842
3000	2.811	2.564	34.924	266.2	2.506	27.864
3500	2.512	2.219	34.906	267.8	2.725	27.879
4000	2.346	2.002	34.893	267.6	2.943	27.886
4500	2.308	1.907	34.886	265.6	3.169	27.888
5000	2.295	1.832	34.879	262.5	3.406	27.888
5500	2.126	1.606	34.852	252.7	3.653	27.883

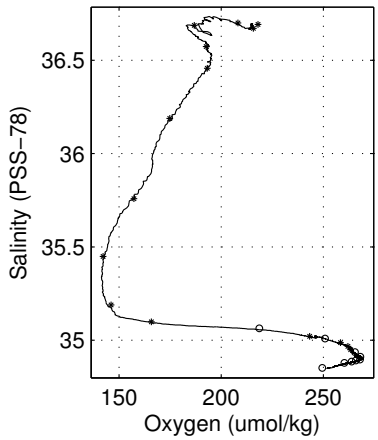
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5520	1	2.110	1.587	34.852	249.4
5125	2	2.286	1.809	34.879	260.2
4729	3	2.303	1.874	34.886	263.8
4339	4	2.314	1.932	34.891	265.9
3948	5	2.353	2.015	34.896	267.9
3449	6	2.533	2.245	34.911	268.1
2949	7	2.874	2.631	34.937	265.4
2449	8	3.275	3.075	34.950	263.3
1949	9	3.703	3.545	34.967	261.9
1600	10	4.111	3.980	34.988	258.3
1444	11	4.423	4.303	35.009	250.8
1275	12	4.789	4.681	35.021	243.2
1104	13	5.719	5.620	35.064	218.7
948	14	7.444	7.347	35.099	165.8
839	15	8.988	8.894	35.189	146.1
728	16	11.313	11.219	35.449	142.2
619	17	13.441	13.352	35.759	157.3
509	18	16.046	15.964	36.189	174.9
401	19	17.481	17.413	36.457	193.2
289	20	18.245	18.194	36.574	192.7
200	21	19.567	19.530	36.687	186.9
119	22	21.615	21.591	36.700	208.1
69	23	22.291	22.277	36.692	218.0
3	24	22.936	22.936	36.671	215.7

Abaco February – March 2013 R/V Brown
CTD Station 5 (CTD005)
Latitude 26.501 N Longitude 71.501 W
22–Feb–2013 22:49 Z





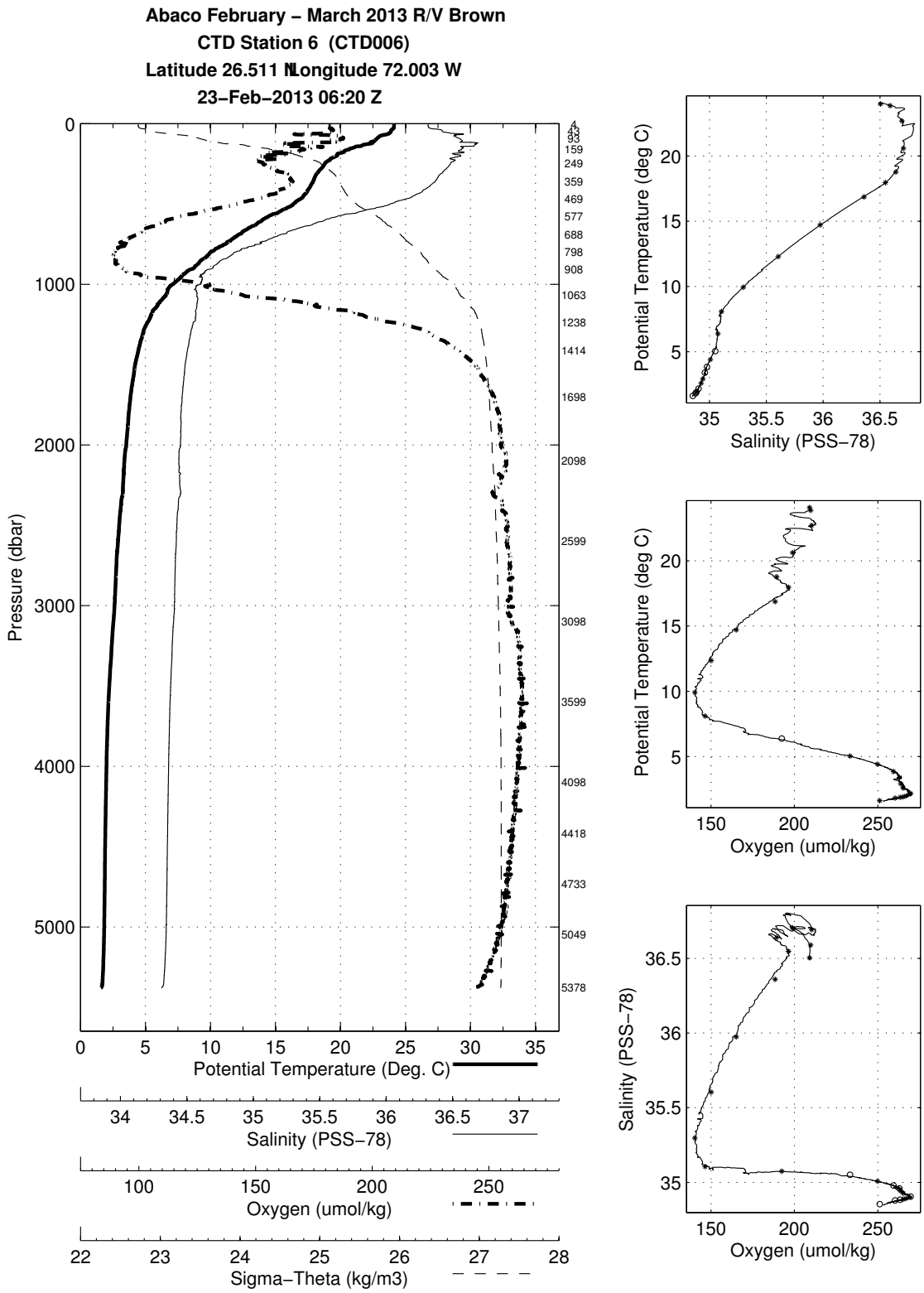




Abaco February - March 2013 R/V Brown
CTD Station 6 (CTD006)
Latitude 26.511N Longitude 72.003W
23-Feb-2013 06:20Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.121	24.120	36.496	208.7	0.003	24.739
10	24.121	24.119	36.496	209.1	0.032	24.739
20	24.120	24.116	36.498	208.7	0.064	24.741
30	24.086	24.079	36.512	208.8	0.096	24.763
50	23.883	23.872	36.586	209.2	0.158	24.881
75	23.084	23.068	36.655	211.5	0.232	25.169
100	22.724	22.704	36.701	210.8	0.301	25.310
125	22.340	22.315	36.786	197.8	0.367	25.486
150	21.014	20.985	36.711	202.7	0.426	25.801
200	19.775	19.738	36.697	188.6	0.529	26.126
250	18.839	18.794	36.634	187.7	0.622	26.324
300	18.330	18.277	36.586	192.9	0.710	26.418
400	17.675	17.606	36.490	194.5	0.878	26.511
500	16.449	16.367	36.261	179.1	1.041	26.633
600	14.072	13.983	35.858	157.3	1.189	26.854
700	12.116	12.021	35.565	146.9	1.318	27.024
800	10.115	10.018	35.304	140.4	1.432	27.186
900	8.816	8.716	35.166	143.5	1.533	27.294
1000	7.168	7.068	35.082	170.6	1.620	27.474
1100	6.330	6.225	35.072	194.7	1.692	27.580
1200	5.507	5.400	35.060	219.7	1.754	27.675
1300	4.934	4.822	35.030	239.4	1.808	27.720
1400	4.600	4.482	35.011	248.2	1.860	27.743
1500	4.320	4.196	34.995	254.2	1.910	27.761
1750	3.919	3.777	34.973	260.8	2.031	27.787
2000	3.683	3.520	34.966	262.2	2.149	27.808
2500	3.178	2.975	34.943	264.1	2.378	27.842
3000	2.869	2.622	34.929	264.8	2.602	27.862
3500	2.506	2.213	34.905	268.8	2.823	27.879
4000	2.343	2.000	34.893	267.6	3.042	27.886
4500	2.294	1.893	34.885	265.5	3.267	27.888
5000	2.286	1.824	34.878	262.4	3.504	27.888

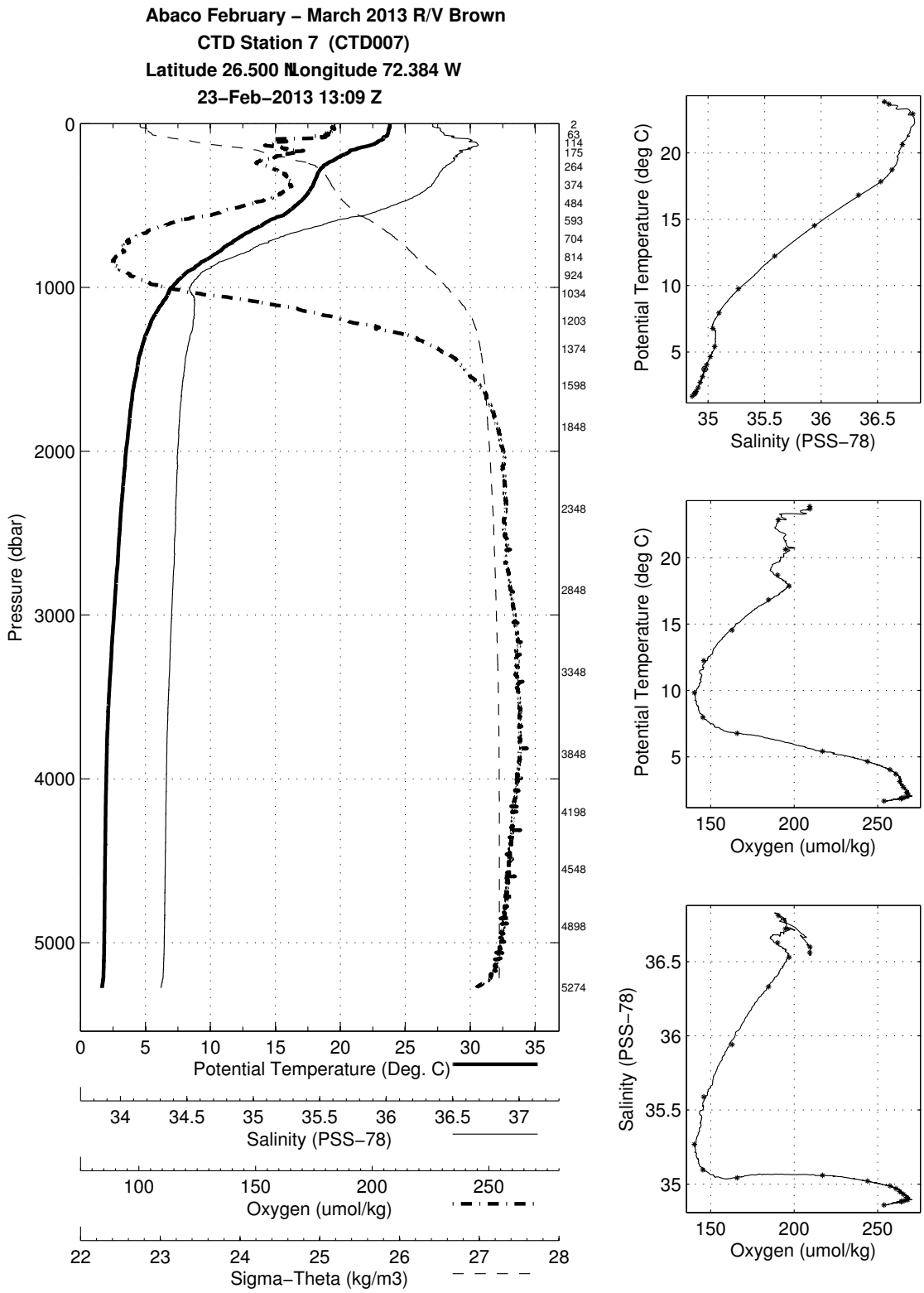
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5378	1	2.109	1.605	34.855	251.1
5049	2	2.280	1.812	34.879	260.3
4733	3	2.294	1.865	34.885	263.4
4419	4	2.301	1.909	34.888	265.2
4098	5	2.332	1.977	34.892	266.9
3599	6	2.472	2.169	34.905	269.7
3099	7	2.840	2.583	34.928	265.2
2599	8	3.117	2.905	34.943	263.8
2099	9	3.567	3.396	34.959	262.9
1698	10	3.969	3.830	34.979	259.4
1414	11	4.514	4.396	35.008	249.8
1239	12	5.156	5.048	35.051	233.3
1064	13	6.473	6.371	35.075	192.4
908	14	8.173	8.075	35.106	146.5
798	15	10.040	9.944	35.298	140.3
689	16	12.385	12.291	35.605	150.1
578	17	14.802	14.714	35.974	165.1
470	18	16.946	16.868	36.359	188.5
359	19	18.021	17.958	36.547	196.4
249	20	18.819	18.774	36.639	189.3
159	21	20.625	20.595	36.705	198.9
93	22	22.715	22.696	36.692	210.3
43	23	23.864	23.855	36.589	209.7
4	24	23.995	23.994	36.503	209.1


Abaco February – March 2013 R/V Brown
CTD Station 6 (CTD006)
Latitude 26.511 N Longitude 72.003 W
23–Feb–2013 06:20 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 7 (CTD007)
Latitude 26.500N Longitude 72.384W
23-Feb-2013 13:09Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.809	23.809	36.546	209.8	0.003	24.869
10	23.810	23.808	36.546	209.6	0.031	24.869
20	23.815	23.811	36.553	209.8	0.062	24.874
30	23.750	23.743	36.591	209.8	0.092	24.923
50	23.703	23.692	36.603	209.2	0.153	24.947
75	23.617	23.601	36.656	205.3	0.228	25.014
100	23.209	23.189	36.785	192.5	0.299	25.233
125	22.616	22.590	36.825	189.5	0.366	25.437
150	21.375	21.346	36.767	194.1	0.427	25.744
200	20.074	20.037	36.698	191.9	0.535	26.048
250	18.882	18.838	36.640	187.5	0.630	26.317
300	18.346	18.293	36.589	193.3	0.718	26.416
400	17.768	17.699	36.506	195.3	0.887	26.501
500	16.634	16.551	36.294	181.9	1.051	26.615
600	14.443	14.353	35.917	160.0	1.203	26.821
700	12.224	12.129	35.580	146.8	1.335	27.015
800	10.400	10.302	35.346	142.5	1.450	27.170
900	8.393	8.295	35.122	143.5	1.550	27.324
1000	7.134	7.034	35.039	157.0	1.636	27.445
1100	6.372	6.267	35.067	188.5	1.710	27.571
1200	5.571	5.463	35.057	213.1	1.773	27.665
1300	5.075	4.962	35.037	234.8	1.829	27.709
1400	4.719	4.600	35.017	244.9	1.882	27.734
1500	4.478	4.352	35.003	251.0	1.933	27.751
1750	3.984	3.841	34.976	259.7	2.056	27.784
2000	3.663	3.500	34.962	263.2	2.176	27.807
2500	3.213	3.009	34.946	263.5	2.406	27.841
3000	2.816	2.569	34.924	266.7	2.631	27.863
3500	2.480	2.188	34.904	267.9	2.850	27.880
4000	2.327	1.983	34.891	267.8	3.067	27.886
4500	2.290	1.889	34.885	265.1	3.291	27.888
5000	2.287	1.825	34.878	262.1	3.528	27.888

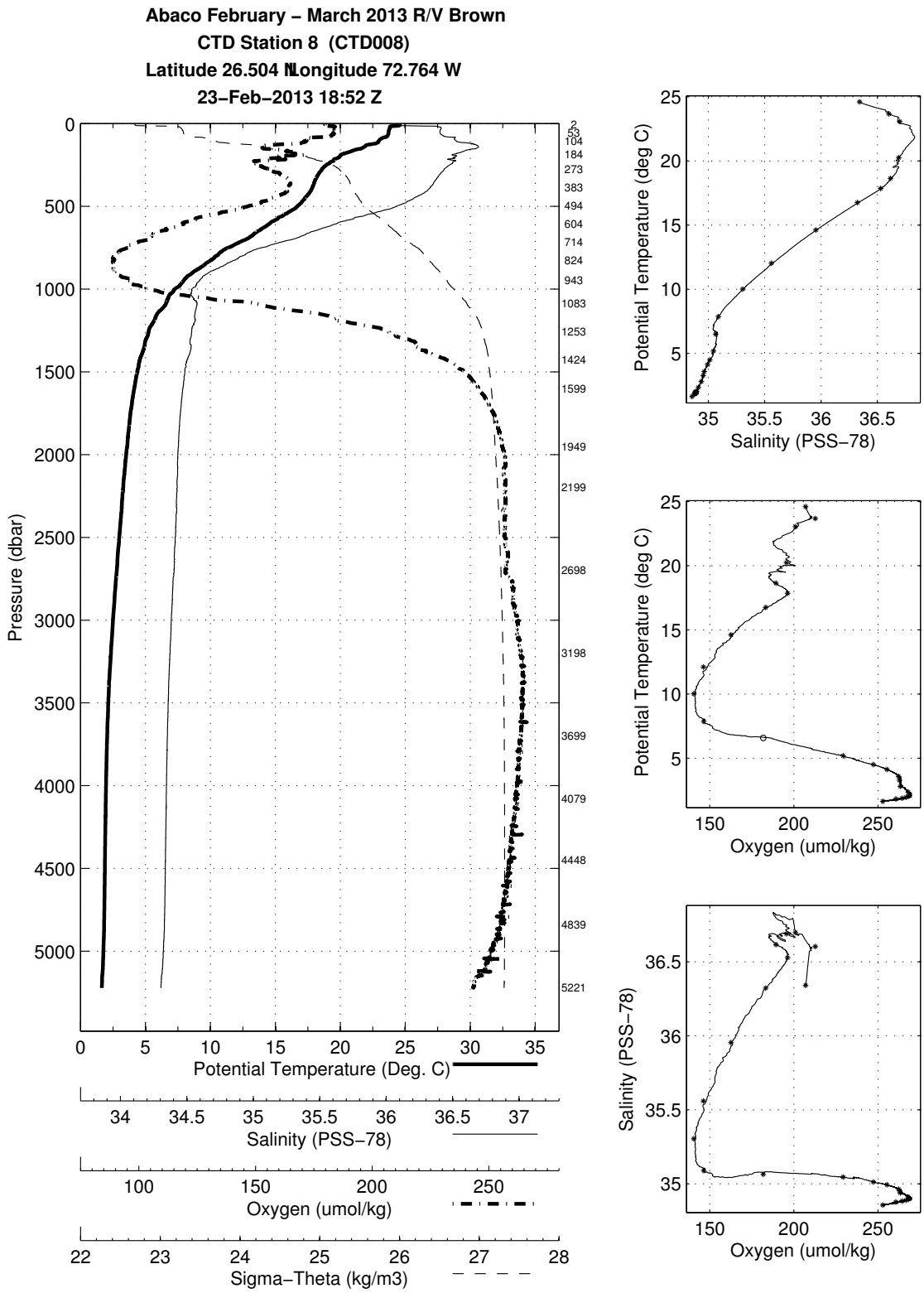
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5274	1	2.156	1.664	34.859	253.8
4899	2	2.289	1.839	34.880	264.1
4549	3	2.288	1.881	34.884	264.3
4199	4	2.300	1.935	34.888	265.9
3849	5	2.347	2.020	34.893	267.9
3349	6	2.580	2.302	34.910	267.3
2849	7	2.943	2.709	34.931	265.4
2348	8	3.334	3.143	34.950	263.2
1849	9	3.855	3.705	34.970	260.9
1599	10	4.166	4.034	34.988	257.4
1374	11	4.759	4.642	35.020	243.9
1204	12	5.520	5.413	35.058	217.0
1035	13	6.873	6.771	35.042	165.9
924	14	8.036	7.938	35.096	145.3
814	15	9.864	9.767	35.268	140.3
704	16	12.330	12.234	35.588	145.8
593	17	14.615	14.525	35.941	162.8
484	18	16.907	16.826	36.332	184.7
374	19	17.912	17.847	36.529	197.0
265	20	18.787	18.739	36.628	190.1
175	21	20.667	20.634	36.722	194.7
114	22	22.974	22.951	36.812	190.5
64	23	23.698	23.684	36.600	209.4
3	24	23.869	23.869	36.561	209.3


Abaco February – March 2013 R/V Brown
CTD Station 7 (CTD007)
Latitude 26.500 N Longitude 72.384 W
23–Feb–2013 13:09 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 8 (CTD008)
Latitude 26.504N Longitude 72.764W
23-Feb-2013 18:52Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.582	24.582	36.343	207.3	0.003	24.484
10	24.572	24.569	36.345	207.3	0.034	24.489
20	23.829	23.824	36.587	210.2	0.066	24.895
30	23.802	23.796	36.598	210.1	0.097	24.913
50	23.729	23.719	36.591	210.2	0.158	24.930
75	23.641	23.626	36.613	209.1	0.233	24.974
100	23.022	23.001	36.687	201.5	0.305	25.213
125	22.368	22.343	36.804	193.3	0.373	25.492
150	21.647	21.618	36.817	188.0	0.433	25.706
200	19.976	19.939	36.686	191.7	0.540	26.065
250	18.985	18.940	36.652	186.3	0.635	26.300
300	18.407	18.354	36.596	193.2	0.724	26.406
400	17.831	17.761	36.516	195.7	0.893	26.493
500	16.768	16.685	36.319	183.3	1.058	26.602
600	14.696	14.604	35.956	162.9	1.210	26.796
700	12.831	12.733	35.671	152.4	1.347	26.967
800	10.541	10.442	35.361	142.0	1.464	27.157
900	8.730	8.630	35.153	141.7	1.566	27.297
1000	7.356	7.254	35.047	152.7	1.656	27.420
1100	6.583	6.477	35.078	188.4	1.731	27.552
1200	5.714	5.605	35.066	214.4	1.796	27.655
1300	5.161	5.047	35.038	232.5	1.853	27.700
1400	4.807	4.687	35.031	241.4	1.907	27.736
1500	4.493	4.367	35.005	250.8	1.958	27.751
1750	3.989	3.846	34.977	259.8	2.081	27.784
2000	3.682	3.519	34.961	263.1	2.201	27.804
2500	3.179	2.976	34.945	263.3	2.431	27.843
3000	2.741	2.496	34.920	267.3	2.652	27.867
3500	2.429	2.139	34.901	268.7	2.867	27.881
4000	2.307	1.964	34.890	267.1	3.083	27.887
4500	2.274	1.874	34.883	264.5	3.307	27.888
5000	2.219	1.759	34.871	259.0	3.541	27.887

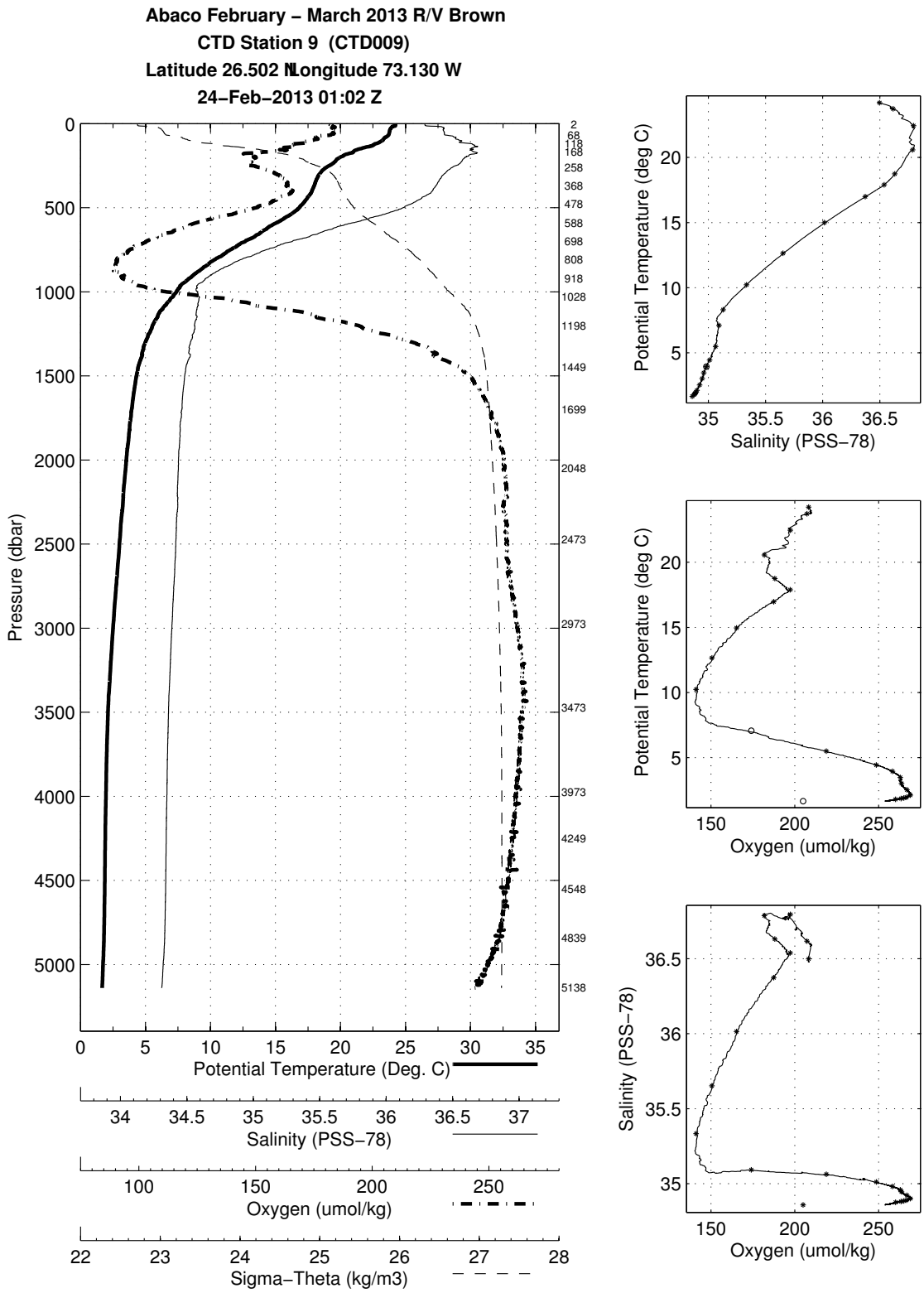
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5221	1	2.130	1.645	34.856	252.8
4839	2	2.259	1.818	34.877	260.6
4448	3	2.277	1.883	34.883	264.3
4079	4	2.301	1.949	34.888	266.6
3699	5	2.373	2.062	34.896	268.2
3199	6	2.616	2.353	34.912	268.0
2699	7	3.027	2.806	34.938	263.2
2199	8	3.457	3.278	34.953	262.7
1950	9	3.746	3.587	34.963	262.3
1599	10	4.263	4.131	34.993	255.3
1424	11	4.616	4.496	35.012	247.3
1254	12	5.292	5.181	35.046	229.2
1084	13	6.600	6.495	35.064	181.8
944	14	7.968	7.868	35.089	146.4
824	15	10.109	10.010	35.304	140.5
714	16	12.119	12.023	35.560	146.3
604	17	14.715	14.622	35.954	162.6
494	18	16.835	16.753	36.322	183.3
384	19	17.922	17.856	36.528	196.3
274	20	18.695	18.646	36.616	189.3
184	21	20.291	20.257	36.689	195.7
104	22	23.099	23.078	36.697	200.9
54	23	23.686	23.674	36.602	212.7
3	24	24.603	24.602	36.341	207.0


Abaco February – March 2013 R/V Brown
CTD Station 8 (CTD008)
Latitude 26.504 N Longitude 72.764 W
23–Feb–2013 18:52 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 9 (CTD009)
Latitude 26.502N Longitude 73.130W
24-Feb-2013 01:02Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.233	24.233	36.479	208.2	0.003	24.692
10	24.235	24.233	36.481	208.2	0.032	24.693
20	23.959	23.955	36.585	209.6	0.064	24.855
30	23.858	23.852	36.598	209.2	0.095	24.896
50	23.774	23.764	36.597	209.4	0.156	24.921
75	23.601	23.586	36.652	204.0	0.232	25.016
100	23.267	23.246	36.697	202.3	0.304	25.150
125	22.601	22.575	36.776	197.1	0.373	25.404
150	21.518	21.489	36.758	196.3	0.435	25.698
200	20.014	19.977	36.727	184.8	0.542	26.086
250	19.172	19.127	36.668	184.2	0.638	26.264
300	18.434	18.381	36.597	191.7	0.727	26.401
400	17.871	17.801	36.525	196.8	0.897	26.490
500	16.905	16.821	36.345	185.3	1.062	26.590
600	14.893	14.800	35.989	165.0	1.217	26.779
700	12.772	12.675	35.662	150.9	1.354	26.971
800	10.570	10.471	35.363	141.9	1.473	27.154
900	8.809	8.708	35.165	143.7	1.575	27.294
1000	7.486	7.384	35.081	157.3	1.664	27.428
1100	6.438	6.333	35.076	192.1	1.739	27.569
1200	5.647	5.538	35.059	217.1	1.802	27.658
1300	5.098	4.985	35.036	234.1	1.859	27.705
1400	4.765	4.645	35.026	243.3	1.912	27.736
1500	4.430	4.305	35.000	251.9	1.963	27.754
1750	4.011	3.867	34.979	258.8	2.086	27.783
2000	3.686	3.523	34.962	262.9	2.205	27.804
2500	3.198	2.995	34.945	263.4	2.437	27.842
3000	2.749	2.504	34.921	266.9	2.659	27.866
3500	2.404	2.114	34.900	268.5	2.873	27.882
4000	2.299	1.957	34.890	266.5	3.088	27.887
4500	2.271	1.871	34.883	264.0	3.311	27.888
5000	2.192	1.733	34.868	257.4	3.546	27.886

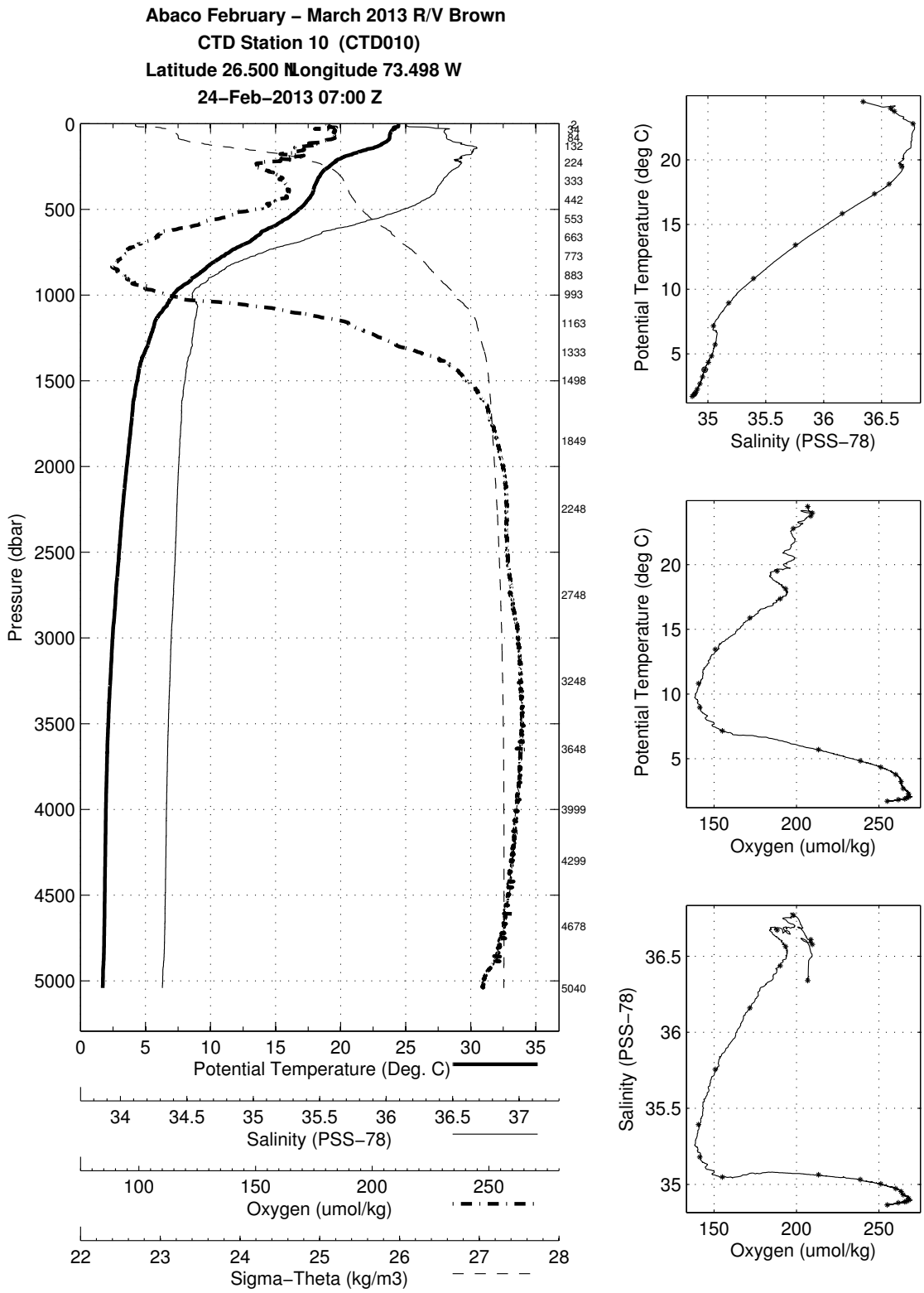
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5138	1	2.135	1.661	34.859	204.9
4839	2	2.246	1.805	34.876	260.1
4549	3	2.269	1.863	34.882	263.4
4249	4	2.277	1.906	34.886	265.0
3974	5	2.305	1.965	34.890	266.7
3474	6	2.414	2.127	34.901	268.8
2974	7	2.781	2.538	34.922	266.9
2473	8	3.229	3.027	34.946	263.7
2049	9	3.641	3.474	34.959	262.9
1700	10	4.085	3.946	34.982	258.3
1449	11	4.573	4.451	35.011	248.6
1199	12	5.596	5.488	35.063	218.8
1028	13	7.204	7.100	35.093	174.1
919	14	8.405	8.305	35.128	129.0
808	15	10.324	10.225	35.334	141.2
699	16	12.737	12.640	35.653	150.6
588	17	15.091	15.000	36.015	165.3
478	18	17.070	16.990	36.373	187.5
369	19	17.969	17.905	36.539	197.3
258	20	18.786	18.740	36.631	188.1
169	21	20.616	20.584	36.787	181.8
119	22	22.460	22.436	36.796	197.4
68	23	23.747	23.733	36.616	207.3
3	24	24.191	24.190	36.499	208.2


Abaco February – March 2013 R/V Brown
CTD Station 9 (CTD009)
Latitude 26.502 N Longitude 73.130 W
24–Feb–2013 01:02 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 10 (CTD010)
Latitude 26.500N Longitude 73.498W
24-Feb-2013 07:00Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.452	24.452	36.354	206.4	0.003	24.531
10	24.452	24.450	36.354	206.4	0.034	24.532
20	24.175	24.171	36.472	207.4	0.068	24.705
30	24.189	24.182	36.617	203.4	0.099	24.812
50	23.870	23.860	36.584	208.8	0.161	24.883
75	23.786	23.770	36.599	208.4	0.238	24.921
100	23.615	23.594	36.629	205.7	0.314	24.996
125	23.091	23.066	36.714	202.3	0.386	25.215
150	22.040	22.010	36.763	199.0	0.453	25.555
200	20.137	20.099	36.694	193.7	0.565	26.028
250	19.182	19.137	36.674	183.6	0.662	26.266
300	18.493	18.439	36.604	191.2	0.751	26.391
400	17.936	17.866	36.530	194.4	0.922	26.478
500	16.857	16.774	36.333	183.5	1.088	26.592
600	14.939	14.847	35.998	163.2	1.242	26.775
700	12.759	12.662	35.652	147.5	1.379	26.966
800	10.500	10.401	35.343	140.1	1.497	27.151
900	8.679	8.579	35.148	142.9	1.600	27.301
1000	7.245	7.144	35.048	155.7	1.687	27.436
1100	6.342	6.238	35.074	195.1	1.761	27.580
1200	5.664	5.555	35.055	217.4	1.823	27.652
1300	5.264	5.149	35.045	229.3	1.881	27.694
1400	4.721	4.602	35.015	245.1	1.935	27.733
1500	4.475	4.349	35.002	250.8	1.986	27.750
1750	4.049	3.905	34.979	258.7	2.110	27.779
2000	3.719	3.556	34.963	262.4	2.231	27.803
2500	3.168	2.965	34.943	263.9	2.462	27.843
3000	2.709	2.464	34.919	267.0	2.682	27.868
3500	2.428	2.137	34.901	268.5	2.896	27.881
4000	2.293	1.950	34.889	266.6	3.111	27.887
4500	2.262	1.862	34.883	264.1	3.334	27.888
5000	2.182	1.723	34.866	256.4	3.568	27.886

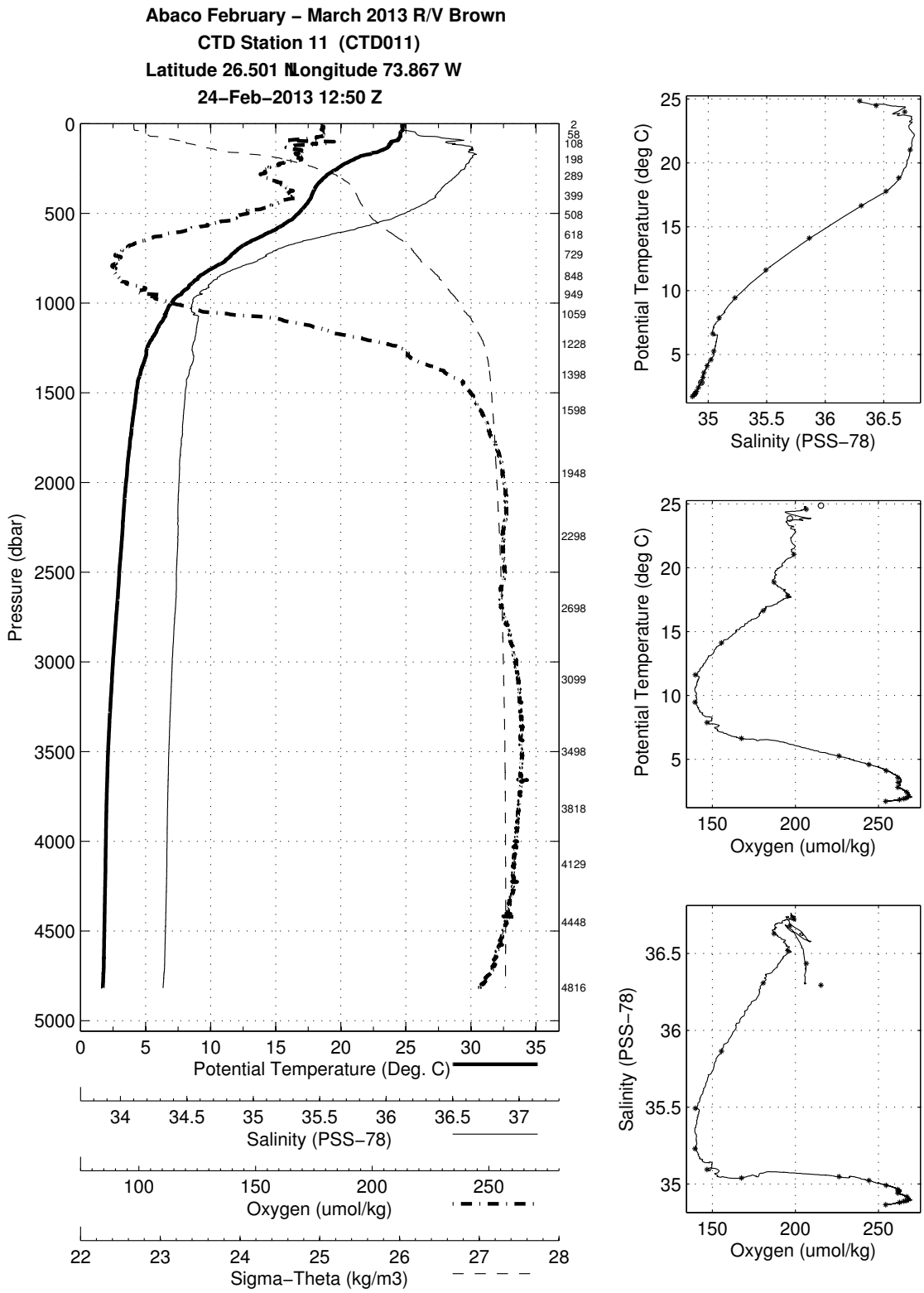
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
5041	1	2.177	1.713	34.865	255.0
4678	2	2.257	1.836	34.879	261.8
4299	3	2.274	1.898	34.885	265.7
3999	4	2.293	1.950	34.889	266.7
3649	5	2.361	2.056	34.897	268.2
3249	6	2.544	2.278	34.909	268.0
2749	7	2.922	2.699	34.931	264.8
2249	8	3.417	3.234	34.953	263.5
1849	9	3.929	3.777	34.972	260.2
1498	10	4.471	4.345	35.004	251.1
1334	11	4.953	4.838	35.032	238.7
1163	12	5.817	5.710	35.063	213.4
994	13	7.263	7.162	35.048	155.0
883	14	9.035	8.935	35.179	141.3
774	15	10.926	10.828	35.393	140.5
663	16	13.518	13.422	35.756	150.7
554	17	15.936	15.847	36.160	171.7
443	18	17.441	17.365	36.438	190.1
334	19	18.191	18.132	36.564	193.3
225	20	19.515	19.474	36.672	188.2
133	21	22.826	22.799	36.771	198.1
84	22	23.775	23.757	36.610	208.7
34	23	23.989	23.982	36.578	209.6
3	24	24.500	24.500	36.340	206.8


Abaco February – March 2013 R/V Brown
CTD Station 10 (CTD010)
Latitude 26.500 N Longitude 73.498 W
24–Feb–2013 07:00 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 11 (CTD011)
Latitude 26.501N Longitude 73.867W
24-Feb-2013 12:50Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.761	24.761	36.304	205.6	0.004	24.400
10	24.759	24.757	36.304	205.9	0.035	24.401
20	24.764	24.760	36.304	205.8	0.070	24.400
30	24.767	24.760	36.308	205.8	0.106	24.403
50	24.594	24.583	36.395	206.2	0.175	24.522
75	24.537	24.521	36.536	203.7	0.261	24.649
100	23.921	23.900	36.585	207.3	0.341	24.872
125	23.716	23.690	36.711	196.2	0.417	25.030
150	23.095	23.064	36.728	197.2	0.490	25.226
200	21.053	21.015	36.726	199.0	0.615	25.805
250	19.816	19.769	36.693	188.0	0.720	26.115
300	18.797	18.743	36.631	187.7	0.814	26.334
400	17.831	17.762	36.517	195.3	0.986	26.493
500	16.827	16.744	36.328	182.2	1.151	26.595
600	14.790	14.698	35.972	161.8	1.305	26.788
700	12.177	12.083	35.560	142.6	1.438	27.008
800	10.393	10.295	35.331	139.7	1.555	27.160
900	8.471	8.372	35.139	145.5	1.655	27.327
1000	7.104	7.005	35.043	158.4	1.740	27.452
1100	6.406	6.301	35.076	193.7	1.814	27.574
1200	5.604	5.496	35.058	218.5	1.877	27.662
1300	5.126	5.013	35.050	233.3	1.933	27.714
1400	4.693	4.575	35.021	245.3	1.985	27.741
1500	4.406	4.282	34.999	252.3	2.035	27.756
1750	3.991	3.848	34.978	258.7	2.158	27.785
2000	3.660	3.497	34.961	262.9	2.277	27.807
2500	3.179	2.976	34.945	263.2	2.507	27.844
3000	2.739	2.494	34.921	266.6	2.728	27.867
3500	2.410	2.120	34.900	268.4	2.942	27.882
4000	2.290	1.947	34.889	266.8	3.156	27.887
4500	2.231	1.832	34.879	262.9	3.379	27.888

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4816	1	2.149	1.714	34.866	254.4
4448	2	2.236	1.843	34.881	262.7
4129	3	2.280	1.923	34.889	265.3
3819	4	2.310	1.987	34.892	266.9
3498	5	2.405	2.116	34.899	268.1
3099	6	2.669	2.415	34.917	267.1
2699	7	3.026	2.806	34.941	261.7
2299	8	3.391	3.204	34.956	261.8
1948	9	3.734	3.575	34.964	261.7
1599	10	4.250	4.118	34.992	254.6
1399	11	4.707	4.588	35.024	244.3
1229	12	5.375	5.266	35.048	226.2
1059	13	6.737	6.634	35.040	167.5
949	14	7.972	7.872	35.094	146.8
849	15	9.539	9.440	35.230	139.6
729	16	11.712	11.616	35.493	139.8
619	17	14.198	14.106	35.864	155.4
509	18	16.738	16.654	36.308	180.6
399	19	17.856	17.787	36.519	195.5
289	20	18.884	18.832	36.629	187.1
198	21	21.064	21.025	36.726	199.1
108	22	24.023	24.000	36.680	196.6
58	23	24.504	24.491	36.435	206.6
3	24	24.864	24.863	36.294	215.4

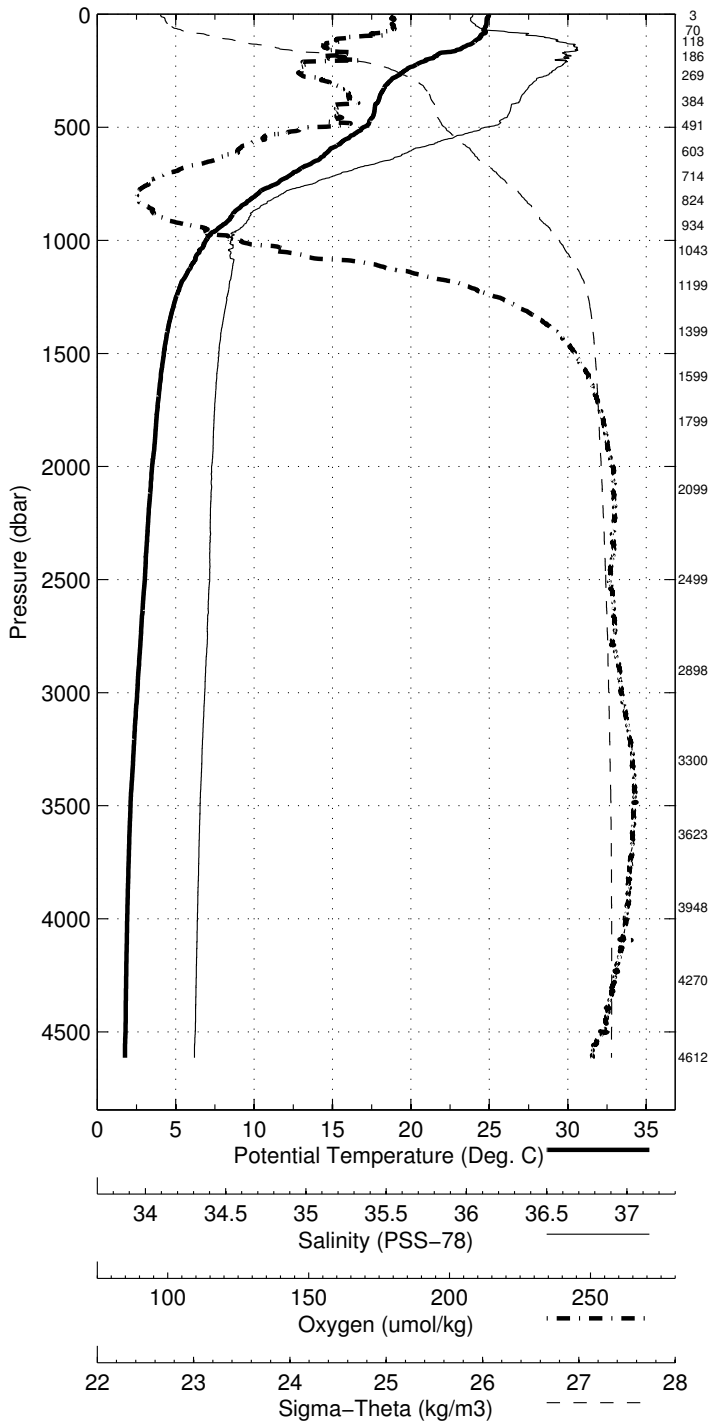

Abaco February – March 2013 R/V Brown
CTD Station 11 (CTD011)
Latitude 26.501 N Longitude 73.867 W
24–Feb–2013 12:50 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

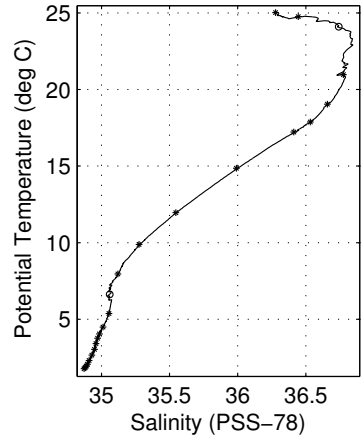
Abaco February - March 2013 R/V Brown
CTD Station 12 (CTD012)
Latitude 26.500N Longitude 74.234W
24-Feb-2013 18:21Z

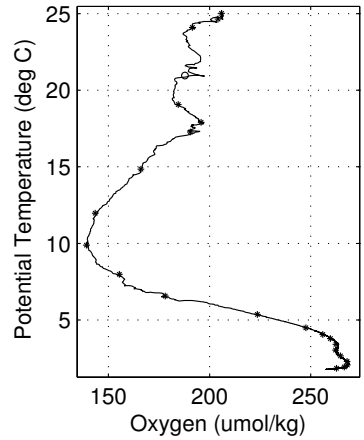
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.974	24.974	36.303	205.8	0.004	24.334
10	24.959	24.957	36.301	206.0	0.036	24.338
20	24.841	24.836	36.292	205.9	0.071	24.368
30	24.832	24.825	36.293	206.5	0.107	24.372
50	24.800	24.789	36.317	206.1	0.178	24.401
75	24.769	24.753	36.462	204.5	0.265	24.522
100	24.475	24.454	36.669	195.9	0.348	24.769
125	24.016	23.990	36.774	190.4	0.426	24.988
150	23.250	23.219	36.838	189.1	0.498	25.265
200	21.046	21.007	36.740	193.8	0.622	25.817
250	19.620	19.573	36.713	182.2	0.725	26.182
300	18.648	18.595	36.617	189.7	0.817	26.361
400	17.793	17.723	36.503	191.4	0.989	26.492
500	17.043	16.958	36.367	184.0	1.156	26.574
600	14.907	14.814	35.991	165.9	1.311	26.777
700	12.602	12.505	35.631	148.0	1.448	26.981
800	10.213	10.116	35.311	139.7	1.565	27.175
900	8.571	8.472	35.151	146.5	1.665	27.320
1000	7.038	6.939	35.062	166.4	1.749	27.476
1100	6.208	6.104	35.072	199.1	1.821	27.596
1200	5.409	5.303	35.051	224.9	1.881	27.679
1300	4.948	4.837	35.031	239.0	1.936	27.719
1400	4.607	4.489	35.010	248.1	1.987	27.741
1500	4.373	4.249	34.997	253.2	2.038	27.758
1750	3.975	3.832	34.975	259.8	2.160	27.784
2000	3.659	3.497	34.960	263.1	2.279	27.805
2500	3.239	3.034	34.950	262.3	2.510	27.842
3000	2.795	2.549	34.924	265.3	2.733	27.865
3500	2.412	2.122	34.901	268.7	2.949	27.882
4000	2.252	1.911	34.887	266.6	3.162	27.888
4500	2.201	1.803	34.876	260.9	3.382	27.888

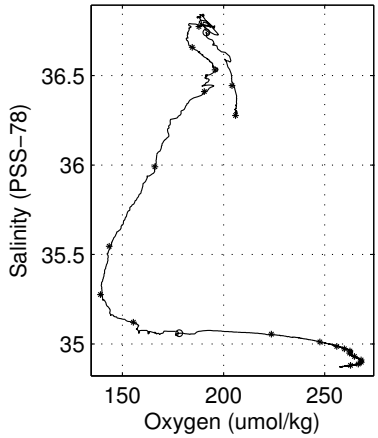
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4613	1	2.182	1.771	34.872	NaN
4271	2	2.215	1.844	34.880	262.8
3949	3	2.265	1.930	34.888	266.7
3623	4	2.371	2.069	34.897	268.2
3300	5	2.575	2.303	34.910	268.1
2898	6	2.896	2.658	34.930	264.8
2500	7	3.236	3.032	34.949	262.3
2100	8	3.584	3.413	34.960	262.5
1800	9	3.915	3.768	34.972	259.8
1600	10	4.175	4.043	34.986	256.0
1399	11	4.607	4.489	35.011	247.6
1199	12	5.483	5.376	35.055	223.6
1044	13	6.722	6.621	35.060	178.1
934	14	8.053	7.953	35.121	155.3
825	15	9.987	9.888	35.276	139.1
714	16	12.061	11.965	35.546	143.4
603	17	14.946	14.853	35.990	166.1
492	18	17.301	17.218	36.411	190.5
385	19	17.947	17.880	36.533	195.8
270	20	19.087	19.039	36.658	184.6
187	21	21.008	20.972	36.774	187.9
118	22	24.129	24.103	36.742	191.5
71	23	24.765	24.750	36.444	204.2
4	24	25.023	25.022	36.277	205.9

Abaco February – March 2013 R/V Brown
CTD Station 12 (CTD012)
Latitude 26.500 N Longitude 74.234 W
24–Feb–2013 18:21 Z





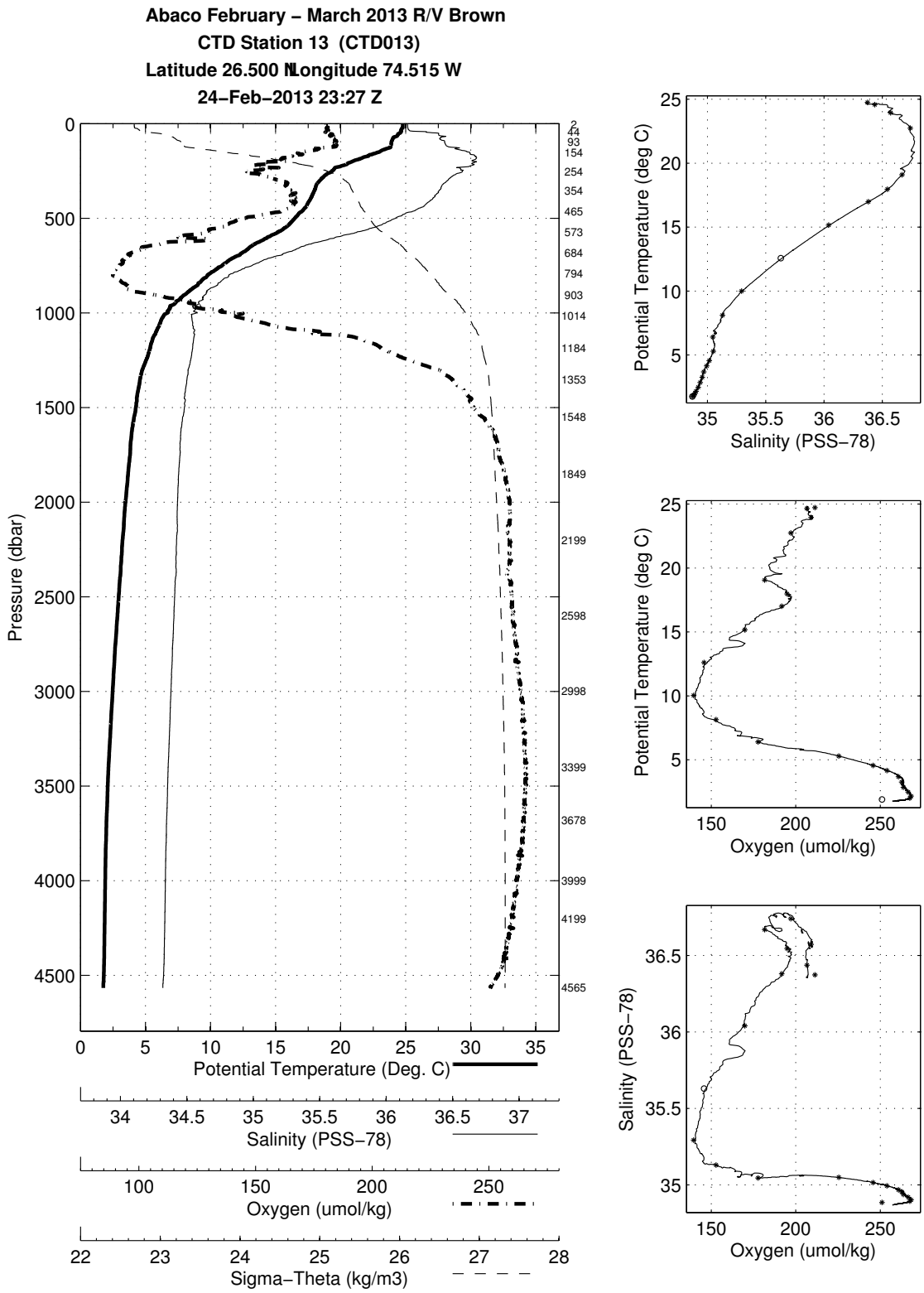




Abaco February - March 2013 R/V Brown
CTD Station 13 (CTD013)
Latitude 26.500N Longitude 74.515W
24-Feb-2013 23:27Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.772	24.772	36.357	206.4	0.003	24.436
10	24.774	24.772	36.358	207.0	0.035	24.437
20	24.775	24.770	36.358	206.8	0.070	24.438
30	24.667	24.661	36.361	206.7	0.105	24.474
50	24.566	24.556	36.541	206.9	0.173	24.642
75	24.076	24.060	36.560	209.4	0.254	24.805
100	23.914	23.893	36.583	209.2	0.332	24.872
125	23.819	23.793	36.625	207.7	0.410	24.934
150	22.995	22.964	36.725	198.9	0.482	25.253
200	20.920	20.881	36.773	191.4	0.605	25.877
250	19.366	19.321	36.690	182.2	0.706	26.230
300	18.467	18.414	36.601	191.9	0.796	26.395
400	17.727	17.658	36.506	197.4	0.966	26.511
500	16.561	16.479	36.283	181.4	1.128	26.624
600	14.466	14.375	35.920	160.6	1.280	26.818
700	12.088	11.994	35.557	145.1	1.411	27.023
800	9.864	9.769	35.271	140.3	1.524	27.203
900	8.213	8.116	35.132	151.8	1.620	27.360
1000	6.766	6.669	35.074	179.2	1.699	27.523
1100	5.900	5.799	35.059	204.3	1.766	27.625
1200	5.402	5.296	35.049	225.4	1.825	27.679
1300	4.861	4.751	35.023	241.1	1.879	27.723
1400	4.568	4.451	35.009	248.6	1.930	27.744
1500	4.372	4.248	35.001	252.3	1.980	27.760
1750	3.955	3.812	34.975	260.2	2.101	27.785
2000	3.619	3.457	34.959	263.5	2.219	27.809
2500	3.139	2.936	34.942	264.1	2.447	27.845
3000	2.715	2.470	34.919	266.9	2.666	27.868
3500	2.382	2.092	34.899	268.3	2.878	27.883
4000	2.243	1.902	34.885	265.7	3.090	27.888
4500	2.190	1.793	34.875	259.7	3.311	27.887

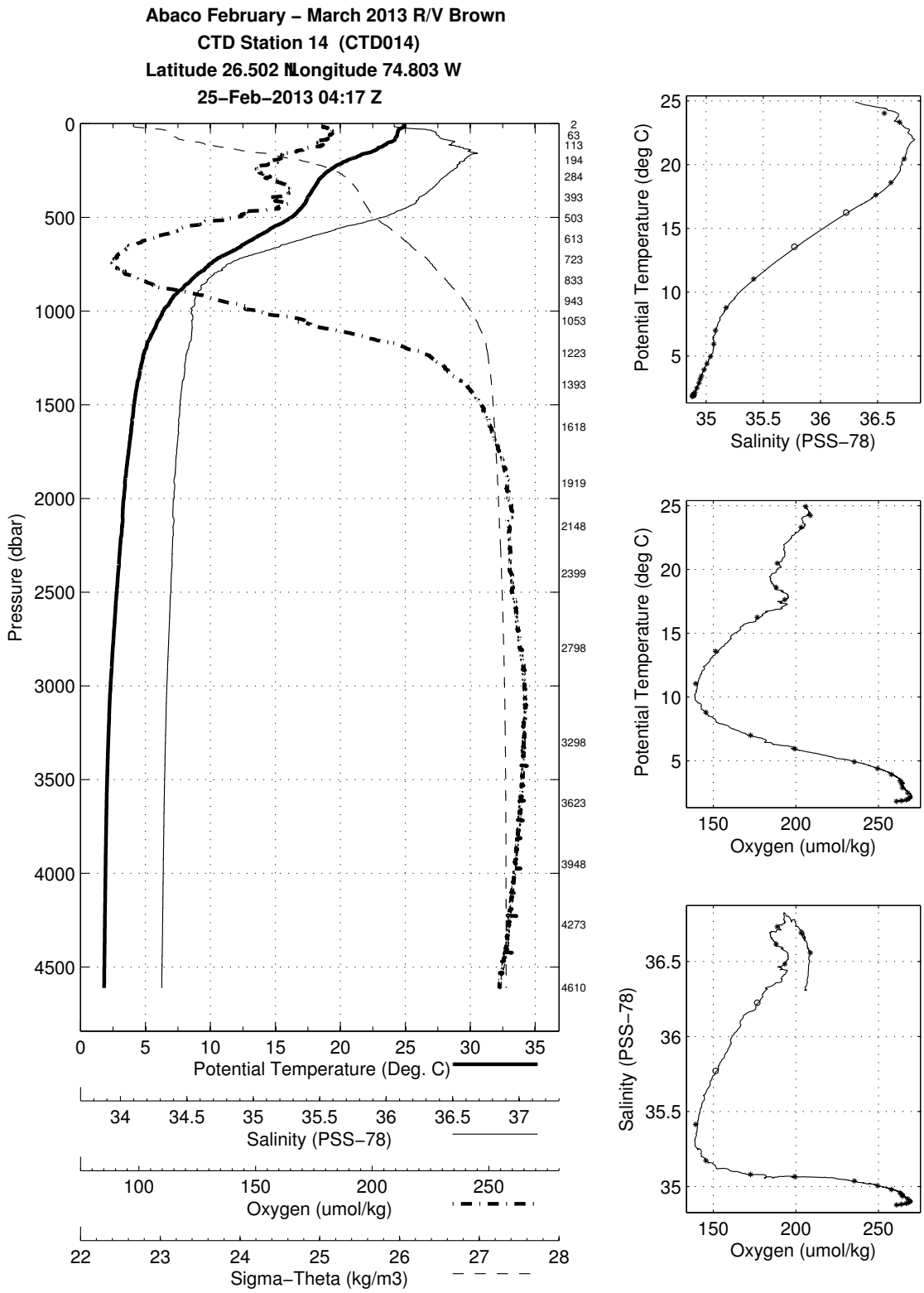
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4566	1	2.158	1.754	34.870	NaN
4199	2	2.225	1.862	34.883	NaN
3999	3	2.243	1.902	34.886	251.1
3679	4	2.310	2.003	34.893	267.5
3400	5	2.438	2.158	34.903	268.2
2999	6	2.722	2.477	34.920	266.5
2599	7	3.065	2.854	34.937	263.6
2199	8	3.440	3.262	34.955	262.6
1849	9	3.825	3.675	34.968	260.8
1549	10	4.281	4.153	34.994	254.0
1354	11	4.666	4.552	35.016	245.8
1184	12	5.393	5.289	35.050	225.5
1014	13	6.494	6.398	35.046	177.7
904	14	8.201	8.104	35.130	152.9
794	15	10.098	10.002	35.293	139.5
684	16	12.667	12.572	35.629	145.7
574	17	15.244	15.155	36.040	169.8
465	18	17.071	16.992	36.380	191.7
354	19	18.024	17.962	36.544	194.9
255	20	19.137	19.091	36.669	181.6
155	21	22.768	22.736	36.740	197.0
94	22	23.968	23.948	36.571	209.0
44	23	24.592	24.582	36.436	206.6
2	24	24.746	24.745	36.373	211.4


Abaco February – March 2013 R/V Brown
CTD Station 13 (CTD013)
Latitude 26.500 N Longitude 74.515 W
24–Feb–2013 23:27 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 14 (CTD014)
Latitude 26.502N Longitude 74.803W
25-Feb-2013 04:17Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.896	24.896	36.309	205.4	0.004	24.363
10	24.898	24.896	36.309	205.6	0.036	24.363
20	24.825	24.821	36.339	206.3	0.071	24.408
30	24.523	24.517	36.492	208.1	0.105	24.616
50	24.410	24.399	36.567	208.3	0.171	24.708
75	24.264	24.248	36.590	207.5	0.252	24.771
100	23.732	23.711	36.672	204.2	0.330	24.993
125	23.145	23.119	36.710	202.4	0.403	25.197
150	22.459	22.429	36.773	197.2	0.470	25.444
200	20.503	20.465	36.738	189.7	0.586	25.963
250	19.192	19.146	36.668	184.7	0.684	26.259
300	18.398	18.345	36.594	191.7	0.773	26.407
400	17.517	17.449	36.459	190.9	0.941	26.526
500	16.299	16.218	36.234	178.1	1.102	26.647
600	13.739	13.651	35.803	153.1	1.247	26.882
700	11.247	11.157	35.439	140.6	1.372	27.089
800	9.131	9.040	35.199	142.8	1.477	27.268
900	7.577	7.484	35.100	162.6	1.566	27.429
1000	6.468	6.373	35.062	185.7	1.640	27.553
1100	5.759	5.659	35.064	208.8	1.703	27.646
1200	5.153	5.049	35.042	232.2	1.759	27.703
1300	4.750	4.640	35.019	244.2	1.811	27.732
1400	4.462	4.346	35.003	251.3	1.861	27.751
1500	4.243	4.120	34.990	255.6	1.910	27.765
1750	3.837	3.696	34.968	261.5	2.029	27.792
2000	3.491	3.331	34.953	264.1	2.144	27.816
2500	2.993	2.793	34.934	265.3	2.366	27.851
3000	2.557	2.316	34.909	269.5	2.577	27.873
3500	2.338	2.050	34.895	269.0	2.784	27.884
4000	2.263	1.921	34.887	266.4	2.996	27.887
4500	2.231	1.832	34.879	262.6	3.217	27.888

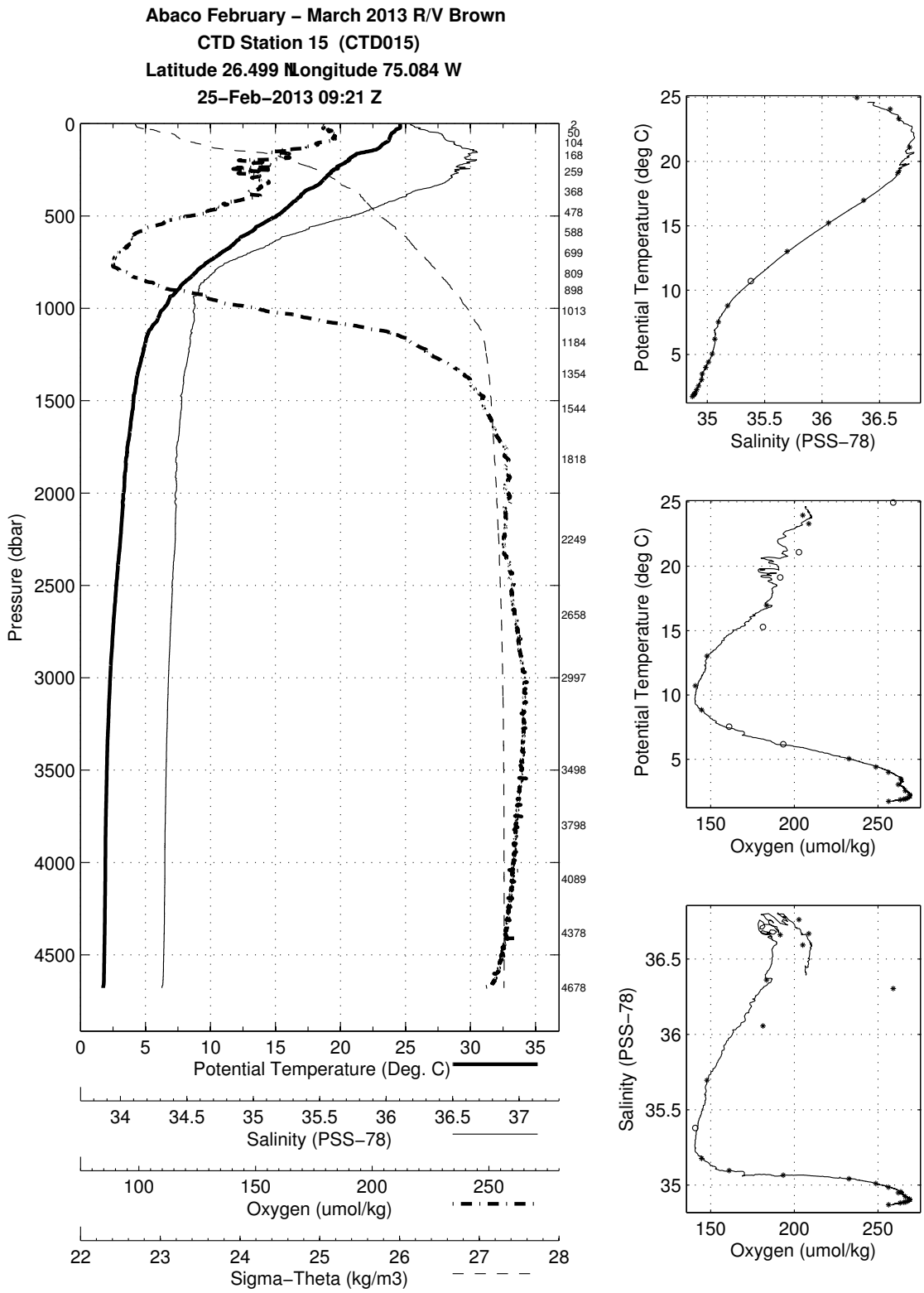
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4611	1	2.234	1.822	34.878	260.8
4274	2	2.246	1.873	34.883	263.8
3949	3	2.265	1.929	34.888	266.7
3624	4	2.309	2.008	34.893	267.9
3298	5	2.411	2.142	34.901	269.0
2798	6	2.713	2.489	34.918	267.8
2399	7	3.071	2.880	34.937	264.5
2149	8	3.351	3.179	34.948	264.0
1919	9	3.582	3.428	34.958	263.0
1619	10	4.053	3.921	34.981	257.8
1393	11	4.512	4.396	35.007	249.4
1224	12	5.059	4.953	35.039	235.3
1054	13	6.035	5.938	35.067	199.4
944	14	7.086	6.992	35.081	172.6
834	15	8.869	8.776	35.174	145.6
724	16	11.125	11.033	35.415	139.4
613	17	13.650	13.561	35.771	151.4
504	18	16.314	16.232	36.225	176.7
394	19	17.690	17.622	36.484	193.3
284	20	18.646	18.596	36.615	188.0
194	21	20.482	20.445	36.731	188.8
114	22	23.354	23.331	36.691	203.2
64	23	24.043	24.030	36.558	208.8
3	24	24.935	24.937	−999.000	NaN


Abaco February – March 2013 R/V Brown
CTD Station 14 (CTD014)
Latitude 26.502 N Longitude 74.803 W
25–Feb–2013 04:17 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 15 (CTD015)
Latitude 26.499N Longitude 75.084W
25-Feb-2013 09:21Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.581	24.581	36.394	206.7	0.003	24.523
10	24.597	24.595	36.410	207.0	0.034	24.530
20	24.601	24.597	36.428	206.5	0.068	24.544
30	24.332	24.326	36.455	208.1	0.102	24.646
50	23.999	23.988	36.568	209.9	0.166	24.832
75	23.805	23.789	36.600	209.9	0.243	24.916
100	23.551	23.530	36.664	206.4	0.319	25.041
125	23.098	23.073	36.706	201.3	0.391	25.207
150	22.183	22.153	36.799	192.0	0.458	25.542
200	20.660	20.622	36.794	180.6	0.571	25.964
250	19.489	19.443	36.666	187.8	0.672	26.180
300	18.781	18.727	36.633	186.3	0.765	26.340
400	16.868	16.801	36.342	184.6	0.933	26.592
500	15.123	15.045	36.031	164.7	1.084	26.757
600	12.842	12.759	35.666	147.3	1.219	26.958
700	10.922	10.833	35.407	142.4	1.337	27.123
800	9.020	8.930	35.193	143.6	1.440	27.281
900	7.579	7.486	35.092	159.1	1.529	27.422
1000	6.518	6.422	35.069	186.0	1.603	27.552
1100	5.588	5.490	35.056	218.2	1.666	27.661
1200	5.049	4.946	35.040	235.8	1.720	27.714
1300	4.704	4.594	35.020	245.5	1.772	27.738
1400	4.404	4.288	35.002	252.7	1.821	27.757
1500	4.199	4.076	34.990	256.5	1.869	27.770
1750	3.746	3.606	34.958	263.3	1.987	27.793
2000	3.465	3.306	34.951	264.4	2.101	27.817
2500	2.958	2.759	34.933	265.9	2.321	27.854
3000	2.525	2.284	34.908	269.3	2.530	27.875
3500	2.311	2.023	34.894	268.5	2.735	27.885
4000	2.256	1.914	34.886	265.9	2.946	27.887
4500	2.232	1.833	34.879	262.2	3.168	27.888

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4678	1	2.163	1.745	34.870	256.3
4379	2	2.244	1.859	34.882	263.2
4089	3	2.255	1.904	34.886	265.4
3798	4	2.256	1.937	34.888	266.5
3499	5	2.310	2.022	34.895	268.1
2997	6	2.511	2.271	34.907	268.9
2658	7	2.773	2.562	34.924	266.3
2249	8	3.224	3.044	34.949	262.1
1818	9	3.636	3.491	34.955	263.7
1544	10	4.123	3.997	34.986	256.3
1354	11	4.533	4.421	35.010	248.8
1184	12	5.150	5.047	35.042	232.6
1014	13	6.299	6.204	35.065	193.4
899	14	7.622	7.529	35.096	161.0
809	15	8.878	8.787	35.177	144.6
699	16	10.792	10.705	35.379	140.8
589	17	13.095	13.012	35.696	147.7
479	18	15.314	15.239	36.056	181.3
369	19	17.037	16.975	36.362	183.3
259	20	19.180	19.133	36.661	191.5
169	21	21.139	21.106	36.762	202.8
104	22	23.332	23.311	36.669	208.7
51	23	24.076	24.065	36.593	205.1
3	24	24.956	24.955	36.304	259.1

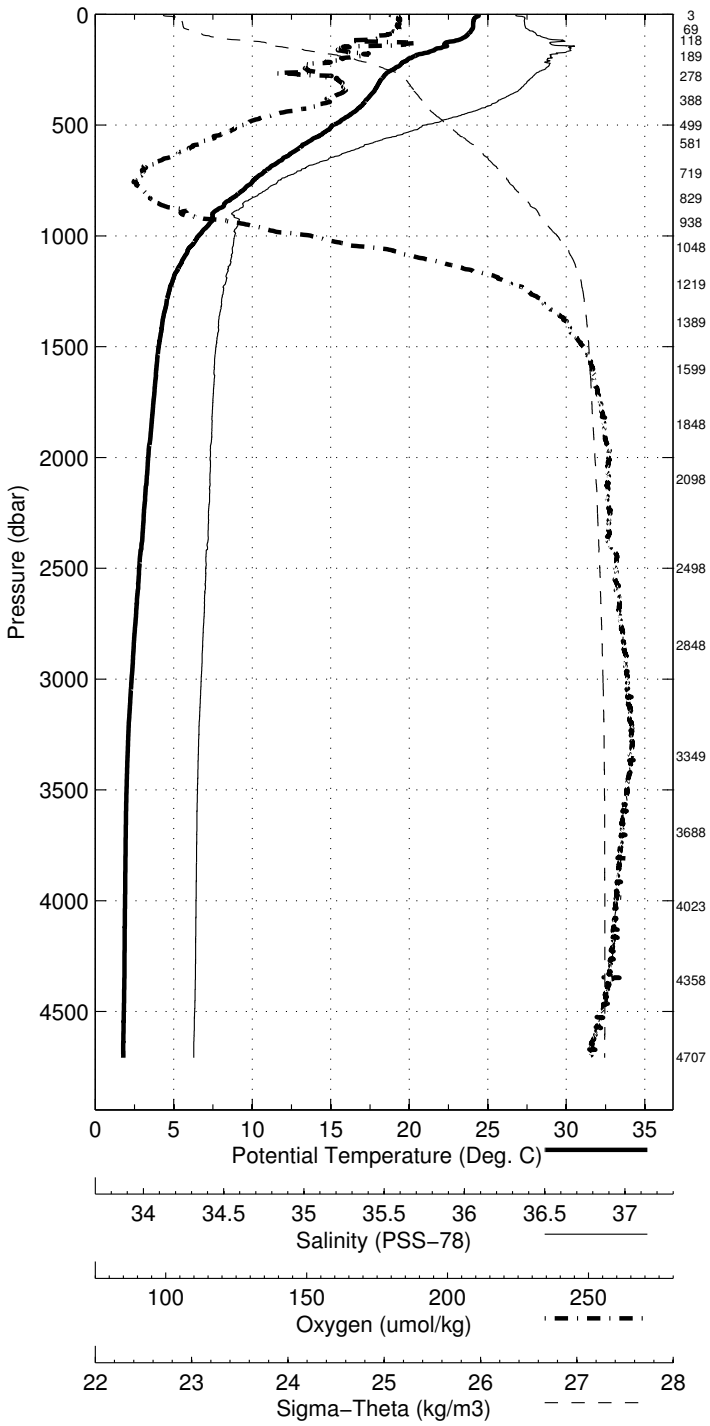

Abaco February – March 2013 R/V Brown
CTD Station 15 (CTD015)
Latitude 26.499 N Longitude 75.084 W
25–Feb–2013 09:21 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

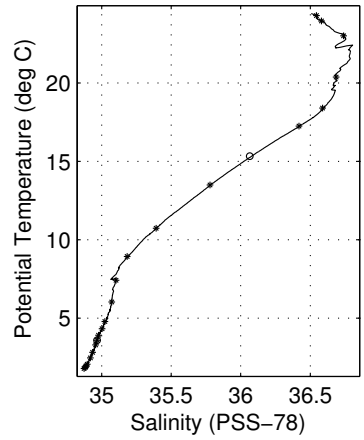
Abaco February - March 2013 R/V Brown
CTD Station 16 (CTD016)
Latitude 26.500N Longitude 75.300W
25-Feb-2013 13:56Z

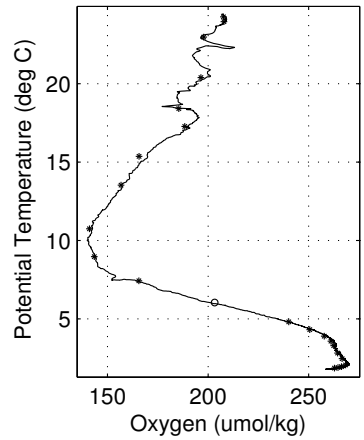
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.429	24.429	36.507	206.7	0.003	24.654
10	24.314	24.312	36.539	208.2	0.033	24.714
20	24.144	24.140	36.553	209.1	0.065	24.776
30	24.093	24.087	36.550	209.0	0.096	24.789
50	24.080	24.069	36.553	208.9	0.159	24.797
75	23.965	23.949	36.581	208.6	0.238	24.854
100	23.626	23.605	36.634	204.2	0.315	24.996
125	22.521	22.496	36.703	205.6	0.386	25.372
150	22.121	22.091	36.781	195.8	0.450	25.546
200	20.004	19.967	36.668	194.4	0.562	26.043
250	18.998	18.952	36.650	185.1	0.658	26.295
300	18.200	18.148	36.569	193.3	0.745	26.437
400	17.192	17.124	36.403	190.1	0.911	26.562
500	15.218	15.140	36.046	168.3	1.065	26.748
600	13.136	13.051	35.720	154.9	1.203	26.940
700	11.041	10.953	35.419	142.5	1.323	27.111
800	9.357	9.265	35.224	142.7	1.429	27.251
900	7.557	7.465	35.065	152.3	1.519	27.404
1000	6.671	6.575	35.080	186.1	1.597	27.541
1100	5.736	5.636	35.063	214.6	1.661	27.649
1200	5.041	4.938	35.038	236.0	1.716	27.712
1300	4.657	4.548	35.014	246.6	1.768	27.738
1400	4.379	4.264	34.998	253.2	1.817	27.757
1500	4.167	4.045	34.986	256.9	1.865	27.770
1750	3.847	3.706	34.970	261.3	1.983	27.793
2000	3.531	3.370	34.956	263.6	2.099	27.815
2500	2.998	2.798	34.934	265.4	2.321	27.851
3000	2.557	2.316	34.911	268.4	2.533	27.874
3500	2.281	1.994	34.892	268.3	2.738	27.886
4000	2.238	1.897	34.885	265.7	2.947	27.888
4500	2.220	1.822	34.878	262.1	3.168	27.888

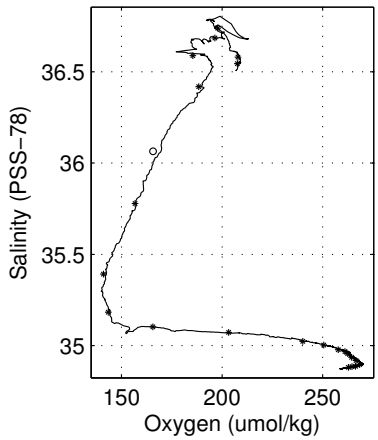
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4707	1	2.209	1.786	34.873	NaN
4359	2	2.238	1.856	34.881	262.8
4023	3	2.241	1.897	34.885	264.7
3689	4	2.256	1.950	34.887	266.4
3349	5	2.334	2.062	34.896	268.4
2849	6	2.690	2.461	34.918	266.6
2499	7	3.025	2.825	34.935	264.4
2099	8	3.459	3.290	34.956	262.5
1849	9	3.736	3.586	34.967	261.1
1600	10	4.037	3.907	34.978	257.8
1390	11	4.434	4.319	35.003	250.6
1219	12	4.890	4.787	35.023	240.1
1049	13	6.132	6.035	35.072	203.3
939	14	7.513	7.417	35.102	165.6
829	15	9.024	8.931	35.183	143.4
719	16	10.827	10.736	35.392	141.0
581	17	13.574	13.490	35.778	156.7
499	18	15.405	15.327	36.064	165.7
389	19	17.315	17.249	36.419	188.4
279	20	18.449	18.400	36.589	185.5
189	21	20.412	20.377	36.685	196.4
119	22	23.024	23.000	36.740	197.9
69	23	23.971	23.956	36.580	207.9
4	24	24.298	24.297	36.545	207.7

Abaco February – March 2013 R/V Brown
CTD Station 16 (CTD016)
Latitude 26.500 N Longitude 75.300 W
25–Feb–2013 13:56 Z







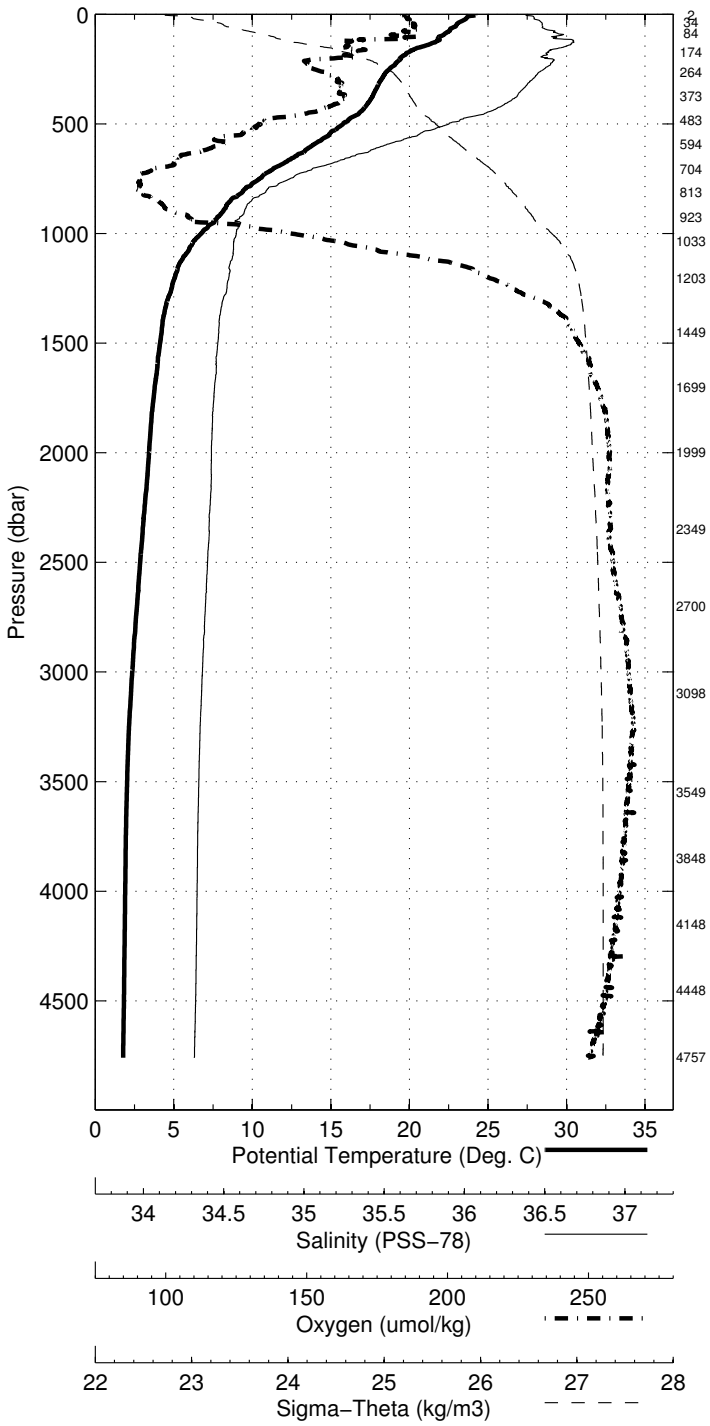


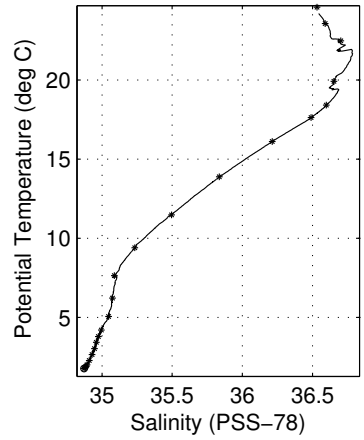
Abaco February - March 2013 R/V Brown
CTD Station 17 (CTD017)
Latitude 26.500N Longitude 75.497W
25-Feb-2013 18:12Z

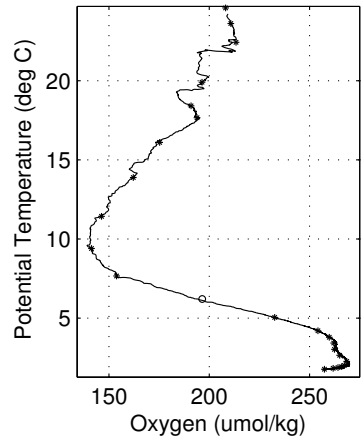
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.198	24.197	36.544	209.1	0.003	24.752
10	23.743	23.741	36.582	210.5	0.031	24.916
20	23.628	23.624	36.586	210.8	0.061	24.954
30	23.381	23.375	36.613	212.0	0.091	25.048
50	22.994	22.983	36.626	212.3	0.148	25.172
75	22.594	22.579	36.682	209.6	0.216	25.331
100	22.014	21.994	36.695	211.0	0.280	25.508
125	21.714	21.689	36.782	195.4	0.342	25.660
150	20.752	20.723	36.733	194.7	0.398	25.889
200	19.462	19.426	36.645	191.8	0.500	26.169
250	18.776	18.731	36.636	186.1	0.591	26.341
300	18.246	18.193	36.574	192.3	0.678	26.430
400	17.487	17.418	36.457	192.9	0.845	26.532
500	15.866	15.786	36.156	171.8	1.004	26.687
600	13.886	13.798	35.826	161.1	1.148	26.868
700	11.511	11.419	35.481	145.3	1.274	27.073
800	9.570	9.477	35.239	140.2	1.383	27.227
900	8.225	8.128	35.124	149.6	1.478	27.352
1000	6.840	6.742	35.083	180.2	1.559	27.520
1100	5.804	5.704	35.067	211.5	1.625	27.643
1200	5.178	5.074	35.046	231.6	1.681	27.703
1300	4.726	4.616	35.017	244.5	1.733	27.733
1400	4.400	4.284	34.996	252.5	1.783	27.753
1500	4.250	4.127	34.990	255.4	1.832	27.765
1750	3.861	3.719	34.970	261.1	1.951	27.792
2000	3.587	3.425	34.958	263.3	2.067	27.811
2500	3.062	2.861	34.939	264.2	2.292	27.849
3000	2.598	2.356	34.913	268.2	2.506	27.872
3500	2.321	2.033	34.895	268.5	2.713	27.885
4000	2.249	1.908	34.886	265.8	2.924	27.887
4500	2.225	1.827	34.878	261.9	3.145	27.888

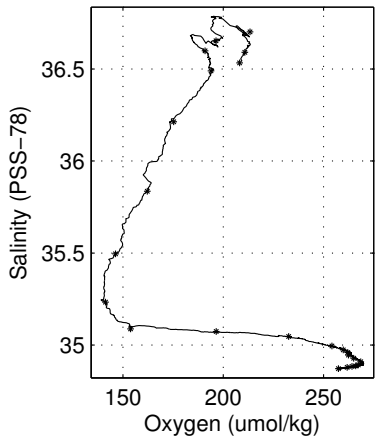
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4758	1	2.206	1.777	34.872	257.4
4449	2	2.231	1.838	34.880	261.8
4149	3	2.243	1.885	34.884	264.1
3849	4	2.258	1.934	34.888	266.0
3550	5	2.299	2.006	34.893	267.4
3099	6	2.528	2.278	34.909	268.5
2701	7	2.878	2.661	34.928	265.0
2349	8	3.226	3.037	34.946	262.5
1999	9	3.595	3.433	34.960	262.0
1700	10	3.927	3.789	34.974	259.8
1450	11	4.323	4.204	34.995	254.1
1204	12	5.161	5.056	35.047	232.6
1034	13	6.324	6.226	35.074	196.4
924	14	7.736	7.640	35.088	153.7
813	15	9.494	9.399	35.233	141.2
705	16	11.574	11.482	35.495	146.3
594	17	13.974	13.886	35.835	162.1
484	18	16.192	16.113	36.213	175.3
374	19	17.692	17.628	36.489	193.8
264	20	18.465	18.418	36.599	190.9
174	21	19.952	19.920	36.653	196.4
85	22	22.489	22.472	36.701	213.3
34	23	23.573	23.566	36.591	210.7
3	24	24.600	24.599	36.533	208.1

Abaco February – March 2013 R/V Brown
CTD Station 17 (CTD017)
Latitude 26.500 N Longitude 75.497 W
25–Feb–2013 18:12 Z





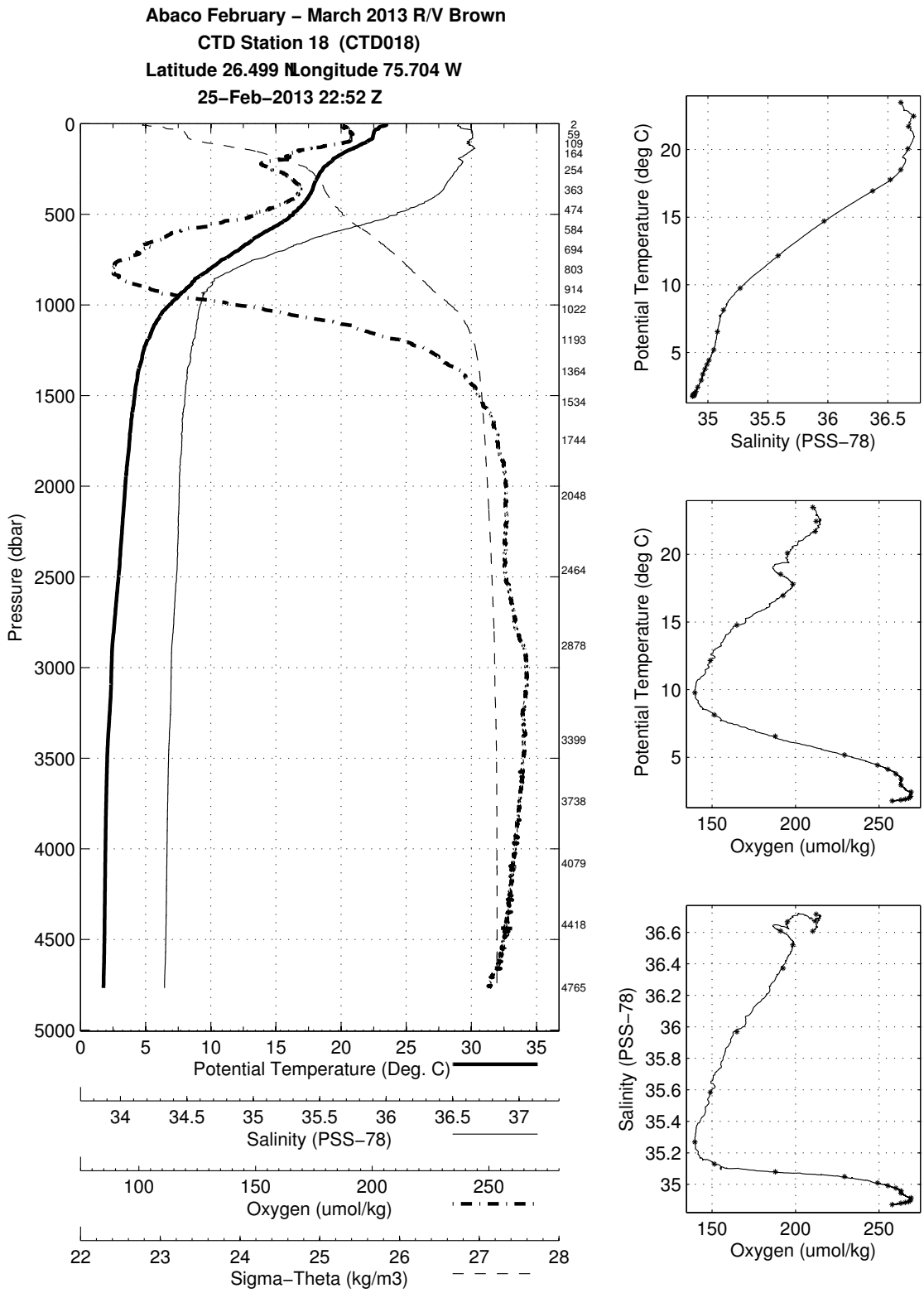




Abaco February - March 2013 R/V Brown
CTD Station 18 (CTD018)
Latitude 26.499N Longitude 75.704W
25-Feb-2013 22:52Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.451	23.450	36.621	212.0	0.003	25.032
10	23.399	23.397	36.618	211.6	0.029	25.045
20	22.923	22.919	36.634	212.8	0.057	25.197
30	22.796	22.790	36.676	213.7	0.085	25.266
50	22.522	22.512	36.705	214.7	0.138	25.368
75	22.458	22.443	36.707	213.9	0.203	25.389
100	22.006	21.986	36.677	213.8	0.267	25.497
125	21.291	21.266	36.710	206.0	0.328	25.723
150	20.528	20.500	36.698	198.6	0.383	25.923
200	19.419	19.383	36.637	192.3	0.484	26.174
250	18.660	18.616	36.618	189.4	0.575	26.357
300	18.215	18.162	36.576	195.7	0.661	26.439
400	17.592	17.524	36.485	197.8	0.828	26.527
500	16.409	16.327	36.257	184.5	0.988	26.639
600	14.172	14.083	35.870	158.9	1.137	26.843
700	12.174	12.079	35.578	149.0	1.267	27.023
800	10.059	9.963	35.293	139.7	1.380	27.187
900	8.395	8.297	35.144	149.9	1.478	27.342
1000	6.912	6.813	35.085	178.5	1.560	27.512
1100	5.887	5.786	35.064	210.2	1.627	27.630
1200	5.208	5.103	35.042	230.8	1.684	27.697
1300	4.813	4.703	35.027	242.1	1.737	27.731
1400	4.489	4.373	35.006	250.4	1.787	27.751
1500	4.278	4.154	34.994	254.9	1.836	27.765
1750	3.899	3.757	34.975	260.4	1.956	27.791
2000	3.597	3.436	34.960	263.1	2.072	27.811
2500	3.121	2.919	34.943	263.2	2.299	27.847
3000	2.620	2.378	34.912	269.4	2.514	27.870
3500	2.335	2.047	34.896	268.6	2.725	27.884
4000	2.255	1.914	34.886	265.8	2.936	27.887
4500	2.235	1.836	34.879	262.4	3.158	27.888

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4766	1	2.200	1.770	34.872	257.8
4418	2	2.237	1.848	34.880	263.0
4079	3	2.251	1.900	34.885	265.6
3739	4	2.283	1.970	34.890	267.8
3400	5	2.388	2.109	34.900	268.8
2879	6	2.670	2.439	34.915	269.1
2464	7	3.142	2.943	34.944	263.0
2049	8	3.553	3.388	34.958	263.1
1744	9	3.914	3.772	34.975	260.0
1534	10	4.237	4.111	34.992	255.2
1364	11	4.542	4.428	35.009	249.1
1194	12	5.300	5.195	35.049	229.2
1023	13	6.632	6.533	35.079	187.8
914	14	8.229	8.130	35.129	151.4
803	15	9.851	9.755	35.269	139.6
694	16	12.250	12.156	35.584	149.0
584	17	14.804	14.715	35.968	164.8
475	18	17.018	16.939	36.372	192.5
364	19	17.831	17.768	36.521	198.4
255	20	18.562	18.517	36.608	191.1
164	21	20.093	20.062	36.667	195.1
109	22	21.731	21.710	36.672	211.8
60	23	22.481	22.469	36.715	212.3
3	24	23.487	23.486	36.608	210.3

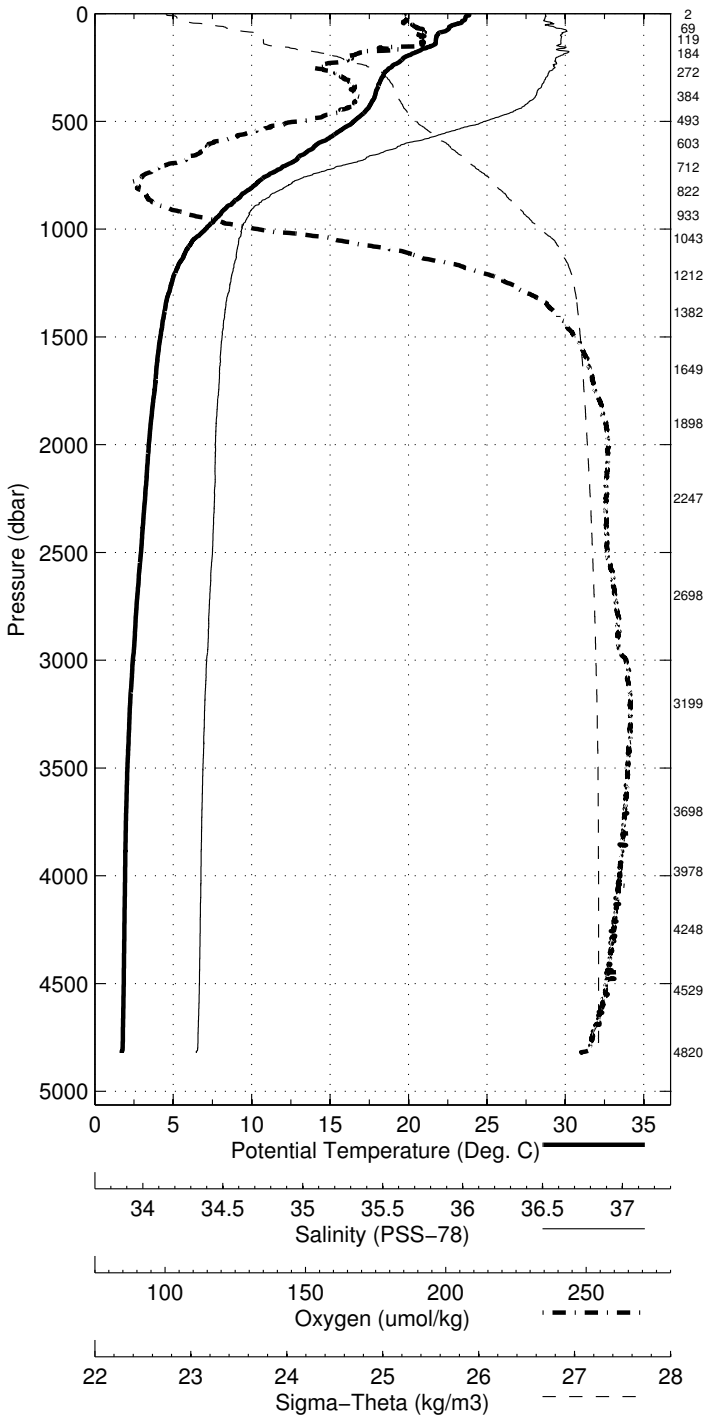

Abaco February – March 2013 R/V Brown
CTD Station 18 (CTD018)
Latitude 26.499 N Longitude 75.704 W
25–Feb–2013 22:52 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

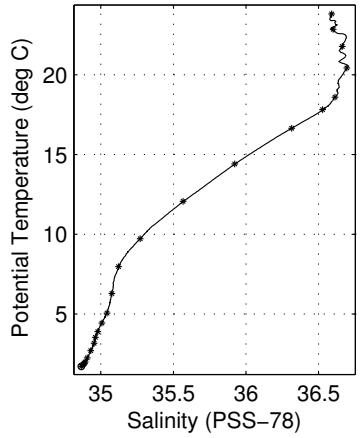
Abaco February - March 2013 R/V Brown
CTD Station 19 (CTD019)
Latitude 26.502N Longitude 75.903W
26-Feb-2013 03:30Z

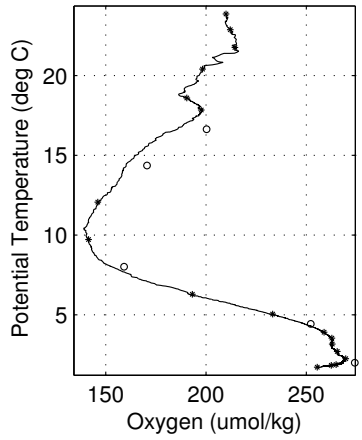
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.874	23.873	36.586	209.9	0.003	24.881
10	23.725	23.723	36.587	210.2	0.031	24.926
20	23.633	23.629	36.584	210.9	0.061	24.952
30	23.591	23.585	36.580	210.4	0.091	24.961
50	22.970	22.960	36.594	211.9	0.149	25.155
75	22.498	22.483	36.686	214.6	0.217	25.362
100	21.861	21.841	36.661	213.8	0.280	25.526
125	21.766	21.741	36.662	214.5	0.342	25.554
150	21.499	21.469	36.648	215.4	0.404	25.620
200	19.853	19.816	36.651	195.2	0.513	26.070
250	18.909	18.864	36.634	186.9	0.609	26.305
300	18.333	18.280	36.587	194.4	0.696	26.418
400	17.819	17.750	36.521	197.8	0.865	26.500
500	16.580	16.497	36.286	182.8	1.029	26.621
600	14.374	14.284	35.903	159.8	1.180	26.825
700	12.379	12.283	35.602	148.0	1.312	27.002
800	10.208	10.111	35.311	140.5	1.427	27.176
900	8.498	8.400	35.148	148.0	1.527	27.329
1000	7.159	7.059	35.089	171.7	1.611	27.481
1100	5.919	5.818	35.065	208.7	1.679	27.627
1200	5.241	5.136	35.044	229.8	1.737	27.694
1300	4.795	4.685	35.020	242.6	1.790	27.728
1400	4.516	4.399	35.003	250.0	1.841	27.746
1500	4.302	4.179	34.992	254.5	1.890	27.761
1750	3.953	3.810	34.975	259.7	2.011	27.786
2000	3.597	3.436	34.958	263.3	2.129	27.810
2500	3.149	2.946	34.944	262.7	2.356	27.846
3000	2.663	2.420	34.916	267.9	2.574	27.869
3500	2.362	2.073	34.897	268.5	2.784	27.884
4000	2.270	1.928	34.887	266.0	2.997	27.887
4500	2.241	1.842	34.880	262.5	3.219	27.888

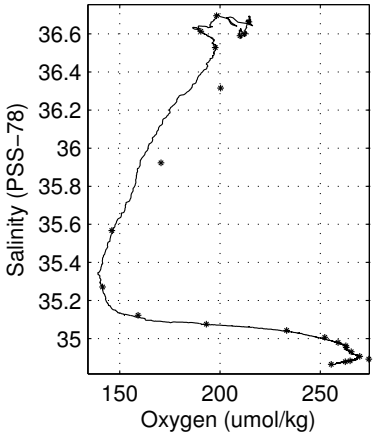
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4821	1	2.152	1.717	34.866	255.5
4529	2	2.240	1.837	34.879	262.5
4248	3	2.254	1.884	34.884	264.9
3978	4	2.271	1.932	34.888	296.8
3699	5	2.310	2.001	34.893	274.2
3199	6	2.511	2.251	34.907	269.7
2699	7	2.928	2.710	34.931	265.4
2248	8	3.355	3.173	34.954	263.0
1899	9	3.695	3.542	34.962	262.8
1649	10	4.039	3.905	34.980	258.9
1383	11	4.554	4.439	35.007	252.2
1213	12	5.164	5.058	35.043	233.2
1043	13	6.396	6.297	35.076	193.2
934	14	8.079	7.979	35.122	159.1
823	15	9.825	9.728	35.272	141.4
712	16	12.168	12.072	35.567	146.0
603	17	14.501	14.410	35.923	170.6
494	18	16.731	16.649	36.315	200.3
384	19	17.886	17.819	36.528	197.6
273	20	18.652	18.604	36.613	190.4
184	21	20.469	20.435	36.694	198.2
119	22	21.805	21.782	36.663	214.4
69	23	22.873	22.859	36.600	212.1
3	24	23.825	23.824	36.590	210.0

Abaco February – March 2013 R/V Brown
CTD Station 19 (CTD019)
Latitude 26.502 N Longitude 75.903 W
26–Feb–2013 03:30 Z







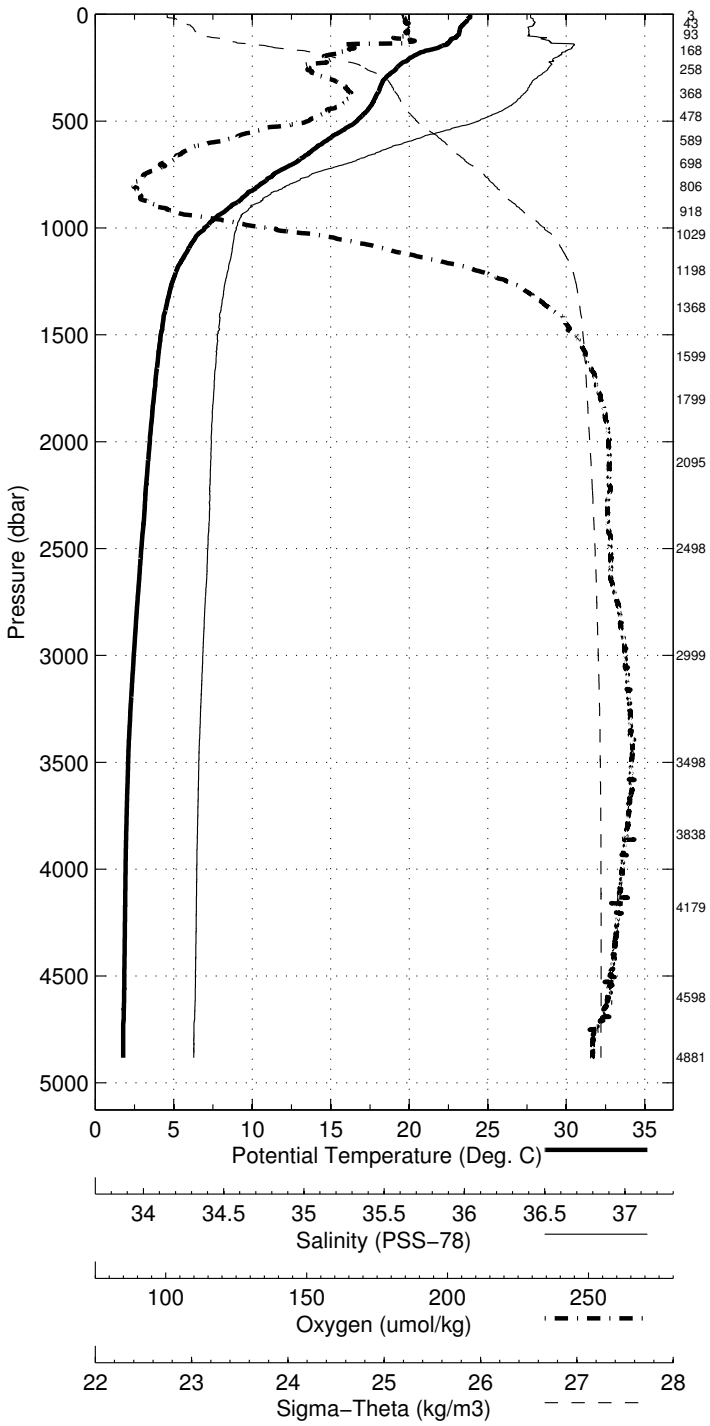


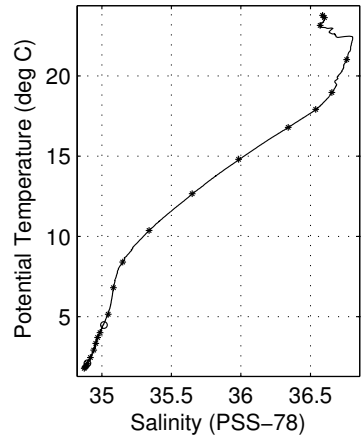
Abaco February - March 2013 R/V Brown
CTD Station 20 (CTD020)
Latitude 26.502N Longitude 76.090W
26-Feb-2013 08:15Z

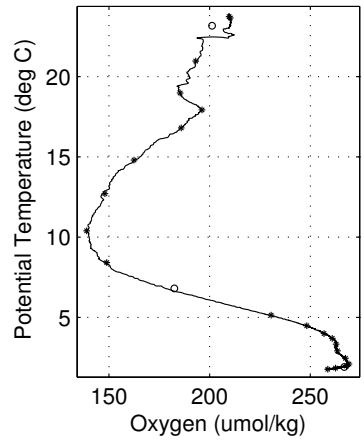
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.881	23.881	36.580	209.3	0.003	24.873
10	23.882	23.880	36.580	209.4	0.031	24.874
20	23.730	23.726	36.592	209.7	0.061	24.929
30	23.696	23.689	36.594	210.0	0.091	24.941
50	23.395	23.384	36.593	210.5	0.151	25.030
75	23.233	23.218	36.572	210.3	0.224	25.063
100	23.073	23.052	36.567	209.4	0.297	25.107
125	22.631	22.605	36.674	212.3	0.367	25.318
150	22.068	22.038	36.795	196.5	0.431	25.572
200	20.216	20.179	36.716	189.2	0.543	26.023
250	19.256	19.210	36.673	184.6	0.641	26.246
300	18.540	18.486	36.610	189.0	0.731	26.383
400	17.829	17.760	36.514	194.6	0.902	26.492
500	16.745	16.662	36.316	184.5	1.066	26.606
600	14.611	14.520	35.942	159.3	1.218	26.804
700	12.718	12.621	35.645	146.2	1.353	26.969
800	10.558	10.459	35.351	139.4	1.471	27.146
900	8.749	8.648	35.165	144.8	1.574	27.304
1000	7.052	6.953	35.087	174.7	1.659	27.494
1100	6.024	5.923	35.067	205.2	1.727	27.616
1200	5.278	5.173	35.045	228.5	1.786	27.691
1300	4.843	4.732	35.023	241.7	1.839	27.724
1400	4.520	4.403	35.004	249.4	1.890	27.746
1500	4.292	4.168	34.992	254.1	1.939	27.762
1750	3.939	3.797	34.975	259.7	2.060	27.787
2000	3.640	3.478	34.961	262.6	2.178	27.809
2500	3.138	2.935	34.943	262.9	2.406	27.846
3000	2.697	2.453	34.918	267.1	2.625	27.868
3500	2.384	2.095	34.898	268.8	2.837	27.882
4000	2.274	1.932	34.887	266.2	3.050	27.887
4500	2.253	1.853	34.881	263.5	3.273	27.888

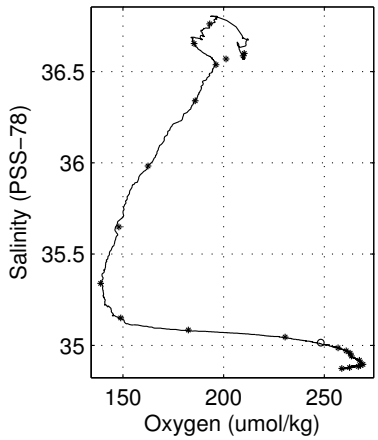
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4881	1	2.225	1.780	34.874	258.6
4599	2	2.250	1.838	34.879	262.5
4179	3	2.267	1.904	34.885	266.8
3839	4	2.294	1.970	34.891	267.9
3499	5	2.381	2.091	34.896	269.2
2999	6	2.702	2.457	34.918	267.4
2499	7	3.121	2.919	34.942	263.4
2095	8	3.502	3.332	34.957	262.8
1799	9	3.849	3.703	34.970	260.9
1599	10	4.131	4.000	34.987	256.7
1369	11	4.590	4.475	35.015	248.3
1198	12	5.251	5.146	35.046	230.5
1029	13	6.904	6.802	35.084	182.4
919	14	8.506	8.406	35.150	148.8
806	15	10.477	10.377	35.340	138.9
698	16	12.763	12.666	35.649	148.0
589	17	14.889	14.799	35.983	162.4
478	18	16.881	16.801	36.340	185.9
369	19	17.977	17.912	36.537	196.2
259	20	19.023	18.976	36.654	185.3
169	21	21.048	21.016	36.761	193.0
94	22	23.173	23.154	36.569	201.1
43	23	23.642	23.633	36.600	210.2
4	24	23.772	23.771	36.586	209.6

Abaco February – March 2013 R/V Brown
CTD Station 20 (CTD020)
Latitude 26.502 N Longitude 76.090 W
26–Feb–2013 08:15 Z





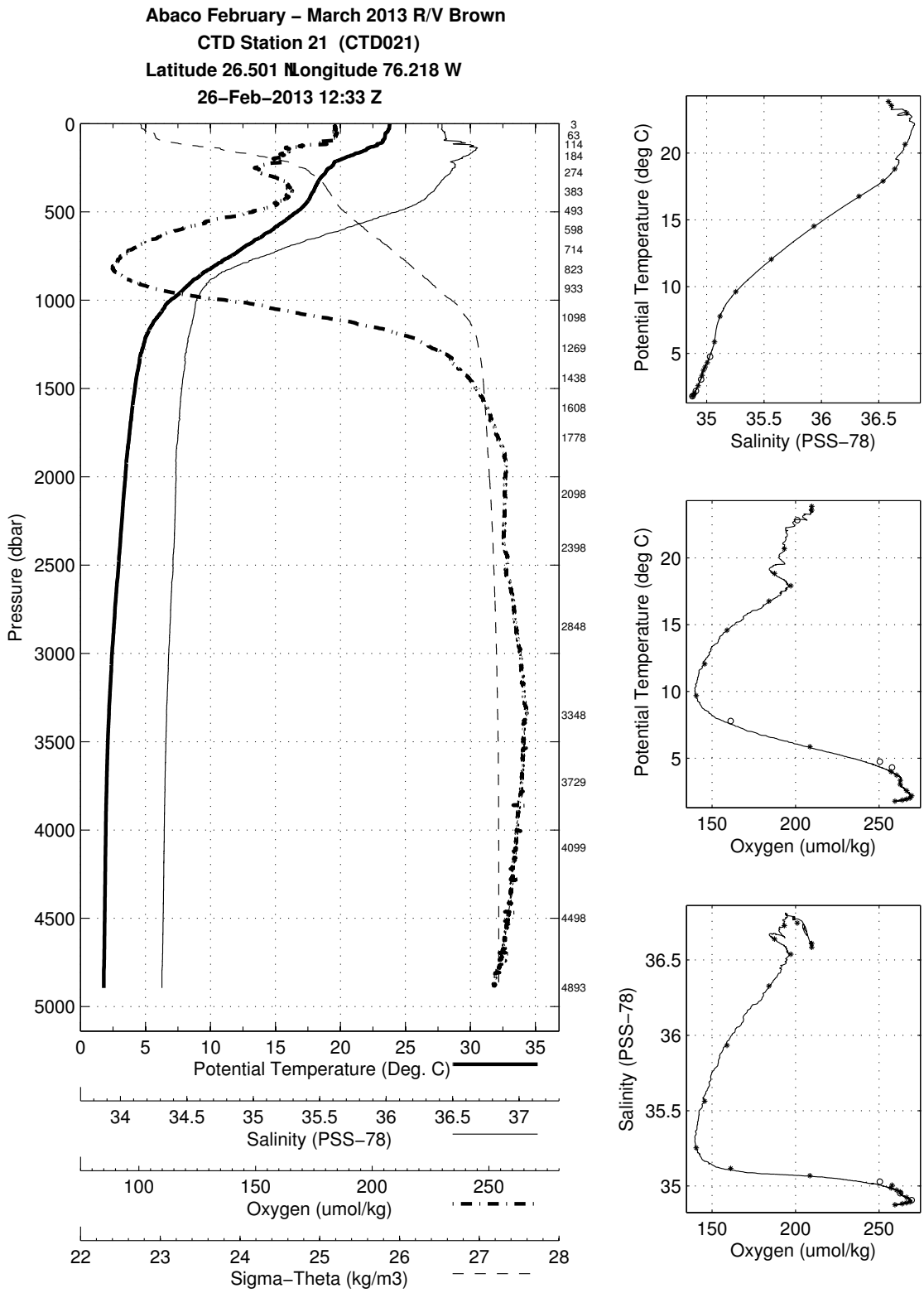




Abaco February - March 2013 R/V Brown
CTD Station 21 (CTD021)
Latitude 26.501N Longitude 76.218W
26-Feb-2013 12:33Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.786	23.785	36.594	209.3	0.003	24.913
10	23.774	23.772	36.594	209.6	0.030	24.917
20	23.773	23.769	36.594	209.6	0.061	24.918
30	23.730	23.724	36.592	209.9	0.091	24.929
50	23.572	23.561	36.611	208.8	0.151	24.992
75	23.443	23.427	36.618	209.6	0.225	25.036
100	23.317	23.296	36.701	205.7	0.298	25.138
125	22.774	22.749	36.787	199.6	0.367	25.362
150	21.981	21.952	36.803	194.4	0.430	25.602
200	20.164	20.126	36.704	190.6	0.542	26.029
250	19.217	19.171	36.671	184.3	0.639	26.255
300	18.609	18.556	36.617	190.1	0.729	26.371
400	17.837	17.768	36.516	194.9	0.901	26.491
500	16.738	16.655	36.314	183.8	1.066	26.605
600	14.886	14.794	35.987	161.0	1.218	26.779
700	12.658	12.561	35.638	147.2	1.354	26.975
800	10.548	10.449	35.351	140.4	1.473	27.148
900	8.591	8.492	35.158	147.8	1.575	27.322
1000	7.038	6.938	35.087	175.3	1.659	27.496
1100	5.965	5.863	35.066	206.8	1.727	27.622
1200	5.175	5.071	35.039	231.3	1.785	27.698
1300	4.762	4.652	35.019	243.2	1.837	27.730
1400	4.521	4.404	35.011	249.0	1.888	27.752
1500	4.308	4.184	34.996	253.8	1.937	27.763
1750	3.925	3.782	34.975	260.3	2.057	27.789
2000	3.617	3.455	34.961	262.9	2.175	27.811
2500	3.138	2.936	34.943	263.3	2.401	27.846
3000	2.667	2.423	34.916	267.6	2.619	27.869
3500	2.391	2.101	34.899	268.5	2.831	27.882
4000	2.286	1.944	34.888	266.8	3.045	27.887
4500	2.261	1.861	34.882	264.0	3.268	27.888

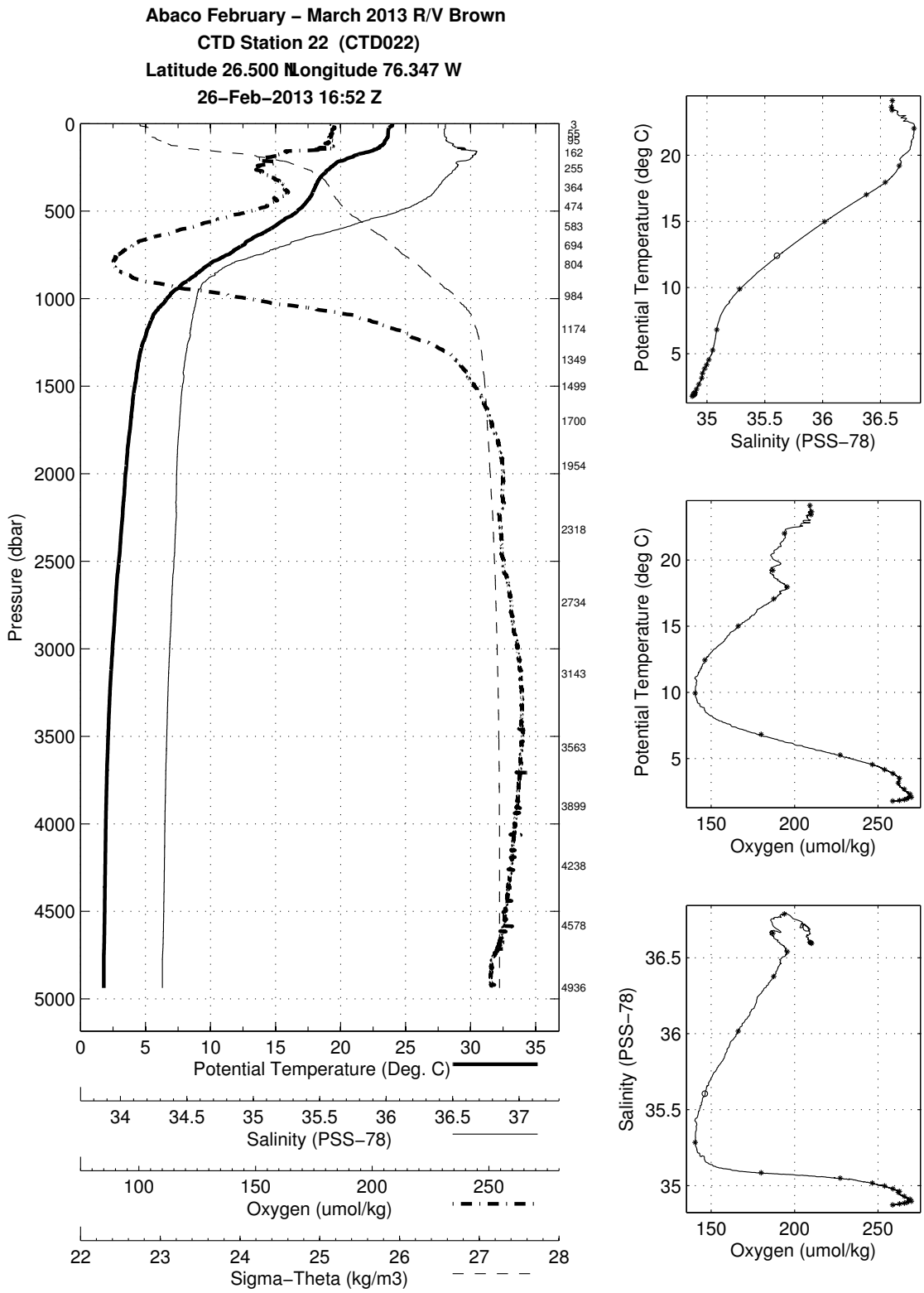
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4893	1	2.241	1.794	34.876	259.5
4499	2	2.262	1.862	34.883	264.0
4099	3	2.284	1.930	34.889	266.4
3729	4	2.330	2.017	34.894	268.5
3349	5	2.466	2.191	34.907	269.5
2849	6	2.806	2.575	34.925	266.5
2399	7	3.242	3.047	34.952	262.7
2099	8	3.515	3.345	34.960	262.7
1778	9	3.879	3.734	34.972	260.5
1608	10	4.118	3.986	34.987	257.2
1439	11	4.423	4.303	35.005	257.8
1269	12	4.859	4.751	35.029	250.5
1099	13	5.966	5.865	35.069	208.5
933	14	7.872	7.774	35.116	161.2
823	15	9.718	9.621	35.253	140.6
714	16	12.144	12.048	35.563	145.6
598	17	14.618	14.527	35.934	159.0
493	18	16.845	16.763	36.327	184.1
384	19	17.970	17.903	36.538	197.1
274	20	18.860	18.810	36.640	187.4
185	21	20.685	20.650	36.729	193.3
115	22	23.006	22.982	36.745	201.0
63	23	23.565	23.552	36.610	209.7
3	24	23.851	23.850	36.584	209.6


Abaco February – March 2013 R/V Brown
CTD Station 21 (CTD021)
Latitude 26.501 N Longitude 76.218 W
26–Feb–2013 12:33 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 22 (CTD022)
Latitude 26.500N Longitude 76.347W
26-Feb-2013 16:52Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.990	23.990	36.601	208.7	0.003	24.857
10	23.984	23.981	36.601	208.8	0.031	24.860
20	23.790	23.786	36.601	209.6	0.061	24.917
30	23.695	23.689	36.597	209.4	0.092	24.944
50	23.672	23.661	36.594	209.1	0.152	24.949
75	23.657	23.642	36.599	208.8	0.227	24.959
100	23.412	23.391	36.607	210.0	0.302	25.038
125	23.211	23.185	36.645	207.6	0.375	25.128
150	22.596	22.566	36.699	204.9	0.445	25.348
200	20.531	20.493	36.757	187.2	0.562	25.970
250	19.267	19.221	36.666	185.2	0.661	26.238
300	18.598	18.544	36.615	190.1	0.751	26.373
400	17.891	17.822	36.524	195.2	0.923	26.484
500	16.756	16.673	36.317	183.3	1.088	26.604
600	14.710	14.619	35.960	163.1	1.240	26.796
700	12.464	12.368	35.611	146.4	1.374	26.992
800	10.068	9.971	35.296	140.5	1.490	27.188
900	8.315	8.218	35.138	150.3	1.587	27.349
1000	6.750	6.653	35.081	183.5	1.667	27.531
1100	5.666	5.568	35.059	216.4	1.731	27.654
1200	5.149	5.045	35.042	233.1	1.787	27.704
1300	4.723	4.613	35.020	244.3	1.839	27.735
1400	4.498	4.381	35.004	250.3	1.889	27.749
1500	4.304	4.180	34.996	253.9	1.938	27.764
1750	3.947	3.804	34.975	259.8	2.058	27.786
2000	3.618	3.456	34.960	262.7	2.176	27.810
2500	3.152	2.949	34.943	263.1	2.404	27.845
3000	2.701	2.457	34.918	267.5	2.623	27.868
3500	2.419	2.128	34.900	268.9	2.837	27.881
4000	2.289	1.947	34.889	266.6	3.051	27.887
4500	2.259	1.859	34.881	263.1	3.275	27.888

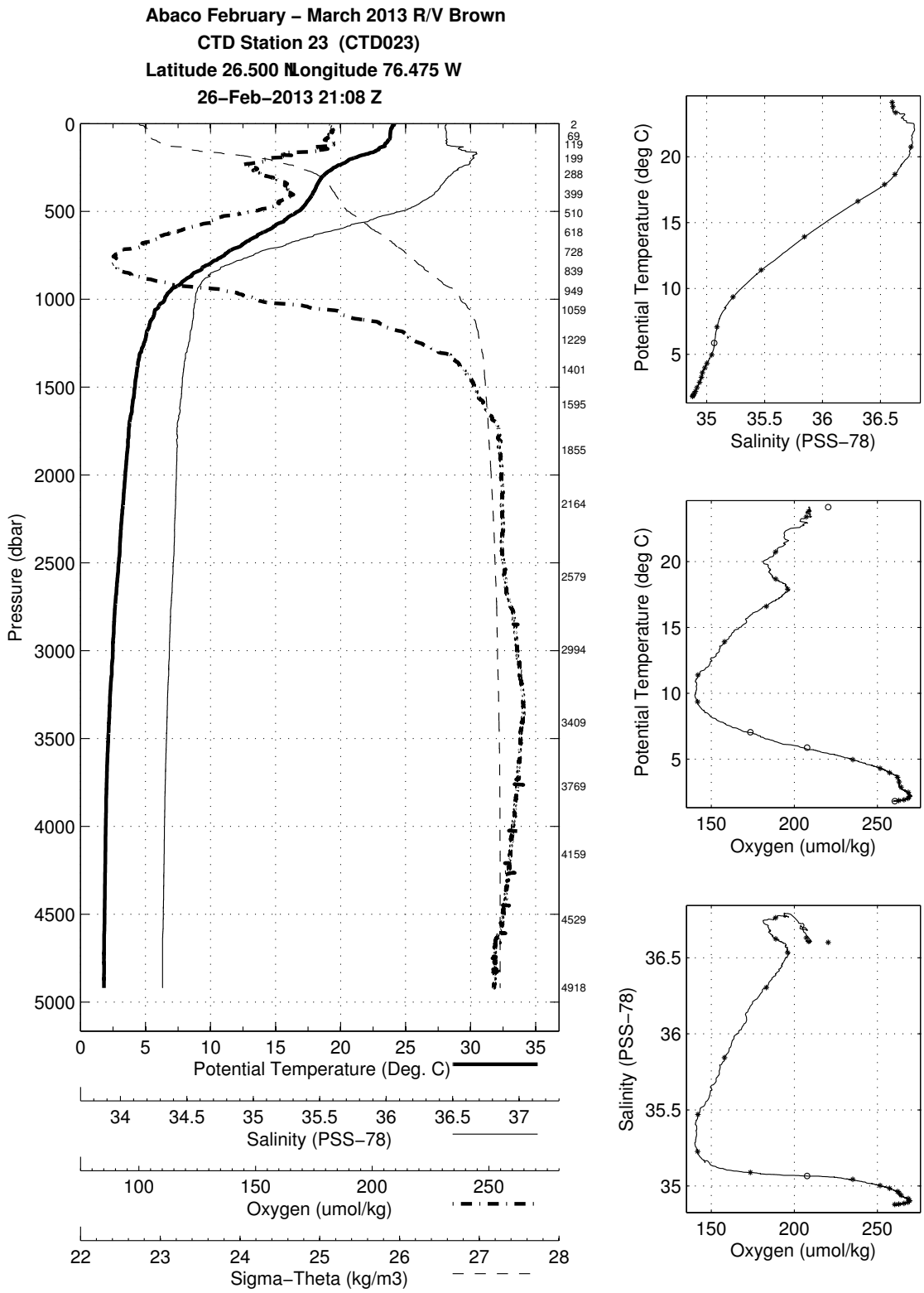
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4936	1	2.241	1.788	34.874	258.7
4578	2	2.252	1.843	34.881	262.8
4238	3	2.273	1.904	34.886	265.8
3900	4	2.298	1.967	34.890	267.4
3564	5	2.384	2.087	34.898	270.0
3144	6	2.581	2.325	34.911	269.1
2734	7	2.913	2.691	34.930	265.8
2318	8	3.353	3.164	34.956	262.2
1954	9	3.679	3.520	34.962	262.8
1700	10	4.013	3.874	34.979	258.9
1500	11	4.293	4.170	34.998	253.9
1350	12	4.657	4.544	35.017	246.6
1174	13	5.367	5.264	35.050	227.3
984	14	6.913	6.816	35.085	180.0
805	15	9.993	9.897	35.284	140.4
694	16	12.497	12.402	35.605	146.2
584	17	15.069	14.979	36.016	166.2
474	18	17.099	17.019	36.377	187.5
365	19	18.010	17.947	36.541	195.6
255	20	19.257	19.211	36.662	186.9
163	21	22.052	22.020	36.789	193.8
95	22	23.428	23.408	36.599	209.9
56	23	23.645	23.633	36.595	210.2
3	24	24.125	24.124	36.602	209.2


Abaco February – March 2013 R/V Brown
CTD Station 22 (CTD022)
Latitude 26.500 N Longitude 76.347 W
26–Feb–2013 16:52 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 23 (CTD023)
Latitude 26.500N Longitude 76.475W
26-Feb-2013 21:08Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.121	24.121	36.605	208.5	0.003	24.821
10	24.075	24.072	36.604	209.1	0.031	24.835
20	23.963	23.959	36.600	209.1	0.062	24.866
30	23.879	23.873	36.602	209.6	0.093	24.893
50	23.843	23.832	36.608	209.3	0.154	24.909
75	23.827	23.811	36.607	208.1	0.231	24.915
100	23.643	23.622	36.608	208.8	0.307	24.971
125	23.427	23.401	36.625	209.0	0.381	25.049
150	22.861	22.830	36.698	205.4	0.452	25.272
200	20.875	20.836	36.768	189.8	0.575	25.885
250	19.545	19.499	36.689	184.6	0.678	26.183
300	18.671	18.617	36.623	188.9	0.770	26.360
400	17.926	17.856	36.534	196.6	0.942	26.484
500	16.809	16.726	36.326	184.4	1.108	26.598
600	14.679	14.587	35.954	162.6	1.260	26.799
700	12.341	12.246	35.603	149.1	1.392	27.010
800	9.995	9.899	35.286	140.2	1.506	27.193
900	7.918	7.823	35.116	155.5	1.601	27.391
1000	6.575	6.479	35.077	185.1	1.676	27.551
1100	5.698	5.598	35.064	214.4	1.738	27.654
1200	5.169	5.065	35.045	232.7	1.794	27.703
1300	4.788	4.678	35.025	242.8	1.846	27.732
1400	4.461	4.345	35.004	251.0	1.896	27.753
1500	4.312	4.188	34.996	254.1	1.945	27.763
1750	3.849	3.708	34.964	262.1	2.065	27.788
2000	3.604	3.443	34.961	262.7	2.182	27.812
2500	3.140	2.938	34.942	263.5	2.409	27.845
3000	2.734	2.489	34.918	267.5	2.628	27.865
3500	2.426	2.136	34.900	268.7	2.843	27.881
4000	2.281	1.939	34.888	266.3	3.057	27.887
4500	2.251	1.852	34.881	263.5	3.280	27.888

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4918	1	2.261	1.810	34.878	260.4
4529	2	2.250	1.847	34.880	262.8
4159	3	2.273	1.913	34.886	266.0
3769	4	2.329	2.012	34.893	268.4
3410	5	2.465	2.184	34.903	269.2
2994	6	2.713	2.469	34.917	268.6
2579	7	3.079	2.870	34.939	264.2
2164	8	3.432	3.257	34.955	263.0
1856	9	3.756	3.606	34.963	262.1
1596	10	4.108	3.978	34.984	257.3
1402	11	4.419	4.303	35.003	251.6
1230	12	5.069	4.963	35.044	235.1
1059	13	5.951	5.854	35.066	207.7
949	14	7.172	7.077	35.089	173.5
839	15	9.449	9.351	35.227	141.8
729	16	11.493	11.398	35.470	141.9
619	17	14.014	13.923	35.843	157.9
510	18	16.709	16.624	36.305	183.1
399	19	17.967	17.897	36.534	195.9
289	20	18.715	18.663	36.625	188.8
199	21	20.783	20.745	36.763	188.7
119	22	23.371	23.346	36.631	207.2
69	23	23.823	23.809	36.607	208.6
3	24	24.137	24.136	36.601	220.3

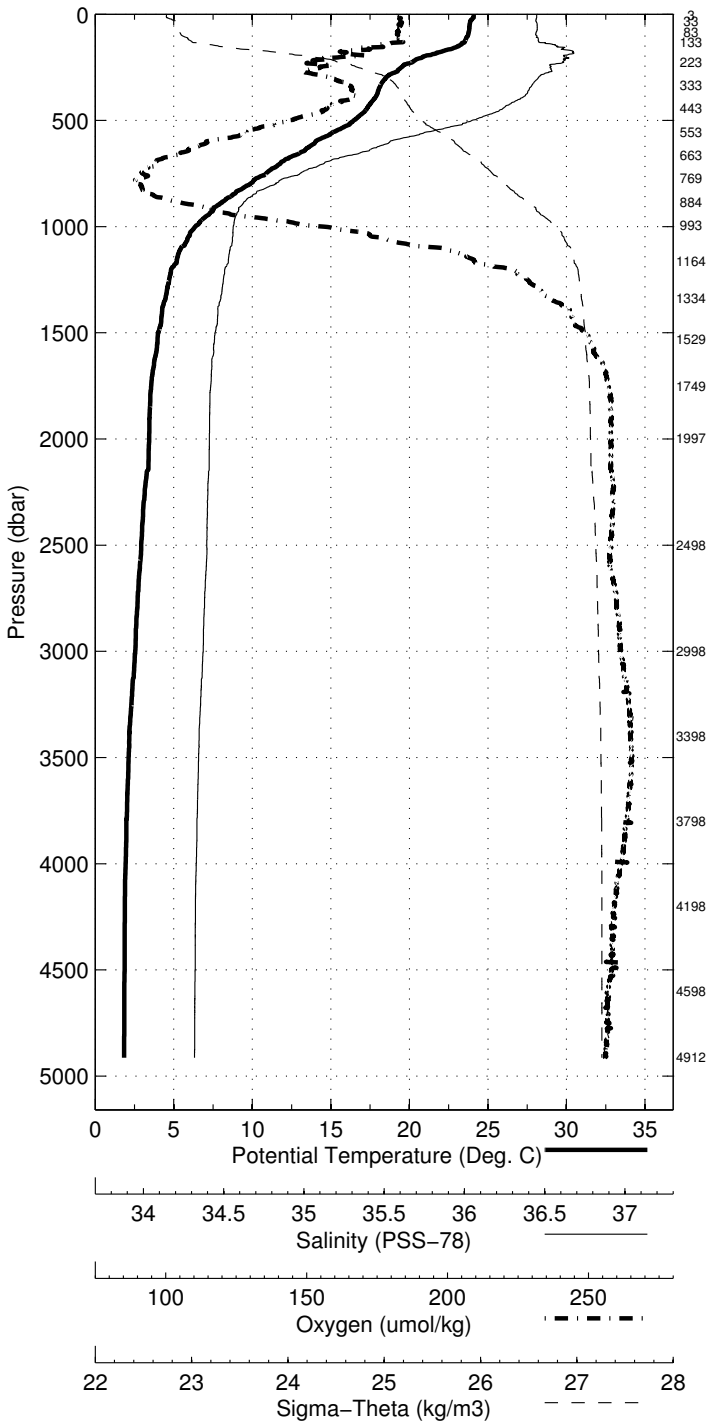

Abaco February – March 2013 R/V Brown
CTD Station 23 (CTD023)
Latitude 26.500 N Longitude 76.475 W
26–Feb–2013 21:08 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

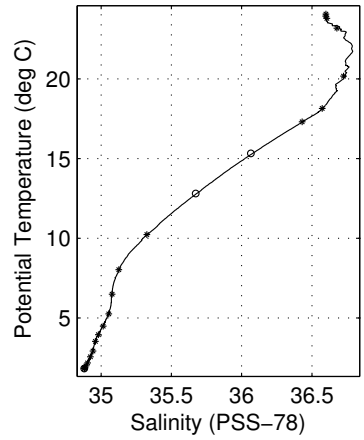
Abaco February - March 2013 R/V Brown
CTD Station 24 (CTD024)
Latitude 26.501N Longitude 76.563W
27-Feb-2013 03:29Z

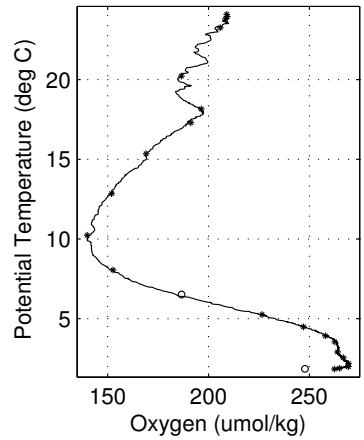
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.099	24.099	36.602	208.7	0.003	24.826
10	24.101	24.098	36.602	208.9	0.031	24.826
20	24.040	24.036	36.600	208.8	0.062	24.843
30	23.907	23.901	36.597	209.0	0.093	24.881
50	23.838	23.828	36.605	208.9	0.154	24.908
75	23.820	23.804	36.604	208.9	0.231	24.915
100	23.753	23.732	36.601	208.1	0.307	24.934
125	23.573	23.547	36.610	209.4	0.383	24.995
150	23.161	23.130	36.707	204.0	0.456	25.191
200	20.890	20.851	36.739	194.6	0.582	25.859
250	19.542	19.496	36.670	188.4	0.685	26.169
300	18.560	18.507	36.611	190.4	0.777	26.379
400	17.827	17.757	36.518	196.1	0.947	26.496
500	16.541	16.458	36.277	179.7	1.111	26.623
600	14.109	14.020	35.863	158.6	1.259	26.850
700	11.899	11.806	35.533	145.2	1.389	27.041
800	9.928	9.832	35.286	141.2	1.501	27.204
900	7.874	7.780	35.115	156.2	1.595	27.397
1000	6.457	6.362	35.074	189.3	1.672	27.564
1100	5.556	5.458	35.059	219.6	1.734	27.667
1200	4.943	4.841	35.031	237.7	1.788	27.719
1300	4.674	4.565	35.017	245.4	1.839	27.739
1400	4.372	4.257	34.997	253.0	1.889	27.757
1500	4.119	3.998	34.982	257.2	1.937	27.772
1750	3.700	3.561	34.960	263.1	2.054	27.800
2000	3.597	3.435	34.954	263.9	2.169	27.807
2500	3.126	2.924	34.940	263.9	2.397	27.845
3000	2.801	2.554	34.922	266.3	2.618	27.863
3500	2.415	2.124	34.899	269.1	2.834	27.881
4000	2.278	1.936	34.887	266.5	3.048	27.887
4500	2.271	1.871	34.882	264.0	3.271	27.887

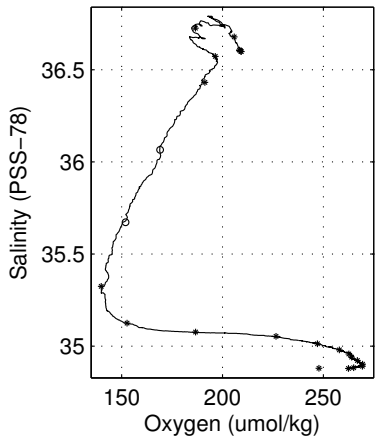
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4912	1	2.289	1.838	34.880	262.4
4598	2	2.261	1.849	34.880	247.8
4198	3	2.249	1.885	34.884	265.0
3798	4	2.318	1.997	34.891	269.3
3399	5	2.461	2.181	34.903	269.5
2999	6	2.808	2.562	34.923	266.9
2499	7	3.128	2.926	34.941	264.0
1998	8	3.599	6.667	−999.000	NaN
1750	9	3.679	3.540	34.958	262.6
1530	10	4.078	3.954	34.980	257.9
1335	11	4.608	4.496	35.014	247.1
1165	12	5.361	5.258	35.054	226.6
993	13	6.585	6.490	35.077	186.7
884	14	8.124	8.030	35.126	152.7
770	15	10.329	10.235	35.325	139.9
663	16	12.910	12.817	35.672	152.0
554	17	15.410	15.323	36.066	169.1
444	18	17.381	17.305	36.431	191.3
333	19	18.203	18.144	36.573	196.4
223	20	20.220	20.178	36.726	186.6
134	21	23.215	23.188	36.678	205.8
83	22	23.817	23.800	36.606	208.4
34	23	23.951	23.944	36.598	209.3
3	24	24.070	24.070	36.600	209.1

Abaco February – March 2013 R/V Brown
CTD Station 24 (CTD024)
Latitude 26.501 N Longitude 76.563 W
27–Feb–2013 03:29 Z





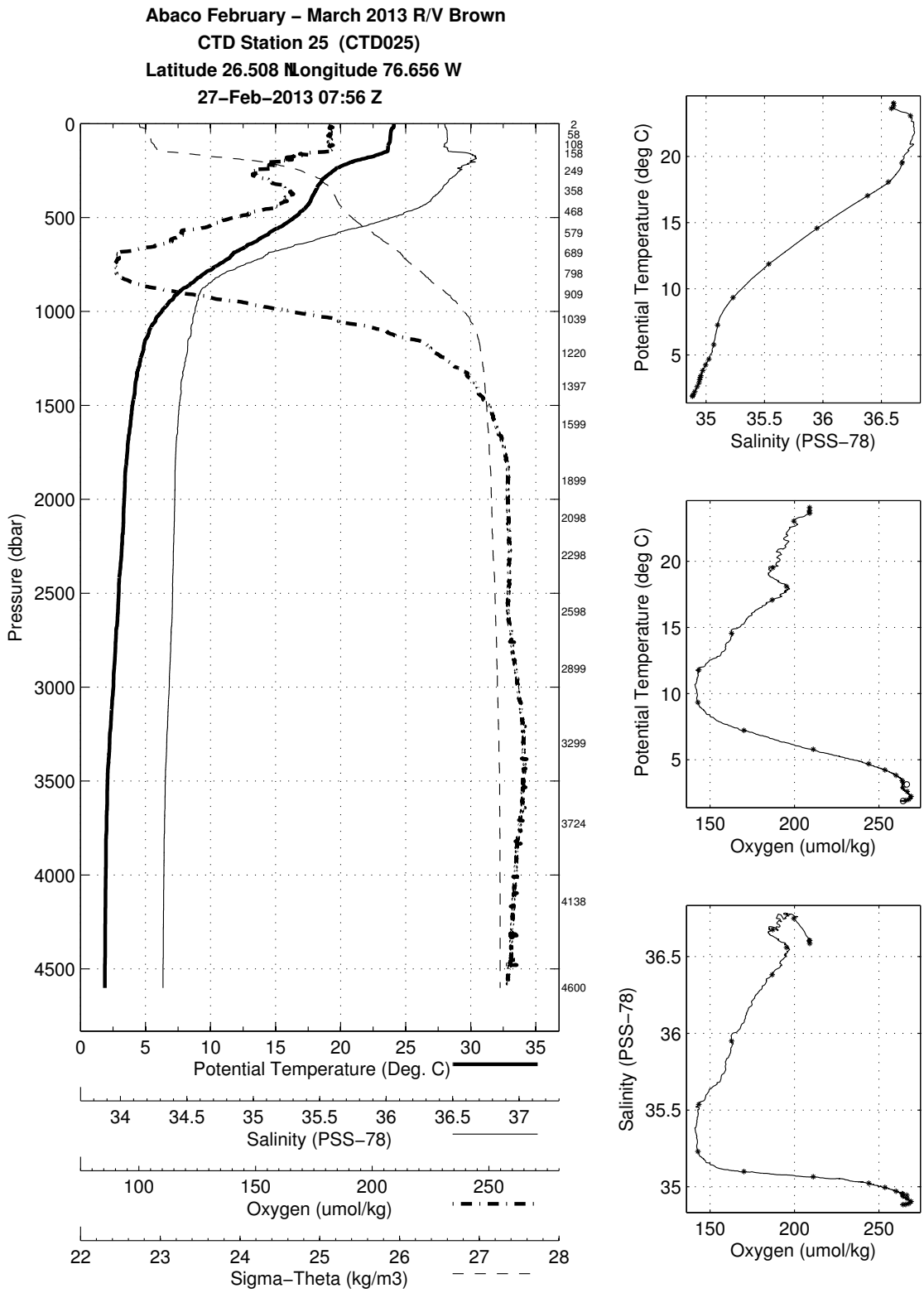




Abaco February - March 2013 R/V Brown
CTD Station 25 (CTD025)
Latitude 26.508N Longitude 76.656W
27-Feb-2013 07:56Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.096	24.096	36.591	208.4	0.003	24.818
10	24.094	24.092	36.592	208.8	0.031	24.820
20	24.068	24.064	36.596	209.3	0.062	24.831
30	23.926	23.920	36.602	208.8	0.093	24.878
50	23.859	23.848	36.606	209.2	0.155	24.903
75	23.829	23.814	36.607	208.2	0.231	24.914
100	23.795	23.774	36.604	207.9	0.308	24.924
125	23.677	23.651	36.597	208.6	0.384	24.955
150	23.539	23.507	36.639	206.8	0.460	25.029
200	21.027	20.988	36.746	193.9	0.590	25.827
250	19.505	19.459	36.685	185.3	0.693	26.190
300	18.619	18.566	36.617	189.5	0.784	26.369
400	17.822	17.752	36.513	194.3	0.956	26.493
500	16.510	16.428	36.271	178.6	1.120	26.626
600	14.194	14.104	35.877	162.2	1.268	26.843
700	11.701	11.609	35.504	143.2	1.396	27.055
800	9.570	9.476	35.248	142.3	1.507	27.234
900	7.640	7.548	35.107	162.1	1.598	27.425
1000	6.341	6.247	35.076	196.5	1.670	27.581
1100	5.396	5.300	35.054	225.1	1.730	27.683
1200	4.944	4.842	35.032	239.8	1.783	27.719
1300	4.564	4.456	35.009	248.2	1.834	27.744
1400	4.315	4.200	34.991	254.1	1.882	27.758
1500	4.116	3.994	34.982	257.6	1.930	27.772
1750	3.742	3.602	34.960	262.7	2.047	27.796
2000	3.529	3.369	34.954	263.6	2.161	27.813
2500	3.142	2.939	34.941	263.8	2.388	27.843
3000	2.776	2.530	34.921	266.5	2.610	27.864
3500	2.363	2.074	34.896	268.6	2.823	27.883
4000	2.284	1.941	34.888	266.0	3.037	27.886
4500	2.276	1.876	34.883	263.9	3.260	27.888

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
4601	1	2.286	1.873	34.883	264.3
4139	2	2.275	1.917	34.885	265.8
3724	3	2.310	1.998	34.891	267.7
3299	4	2.494	2.224	34.904	269.0
2899	5	2.830	2.593	34.924	266.7
2598	6	3.105	2.893	34.939	264.1
2298	7	3.313	3.128	34.945	266.4
2099	8	3.479	3.310	34.952	264.2
1899	9	3.576	3.424	34.955	263.7
1600	10	3.937	3.809	34.971	260.1
1398	11	4.349	4.234	34.996	253.6
1220	12	4.780	4.677	35.023	244.0
1039	13	5.872	5.777	35.066	211.1
909	14	7.344	7.253	35.099	170.0
798	15	9.427	9.335	35.230	142.8
689	16	11.968	11.876	35.537	143.3
579	17	14.672	14.584	35.950	162.8
468	18	17.117	17.038	36.382	186.7
358	19	18.136	18.073	36.559	195.2
250	20	19.548	19.502	36.676	187.1
159	21	23.114	23.081	36.750	199.6
109	22	23.657	23.634	36.586	209.0
59	23	23.846	23.834	36.605	208.9
3	24	24.046	24.045	36.606	208.9

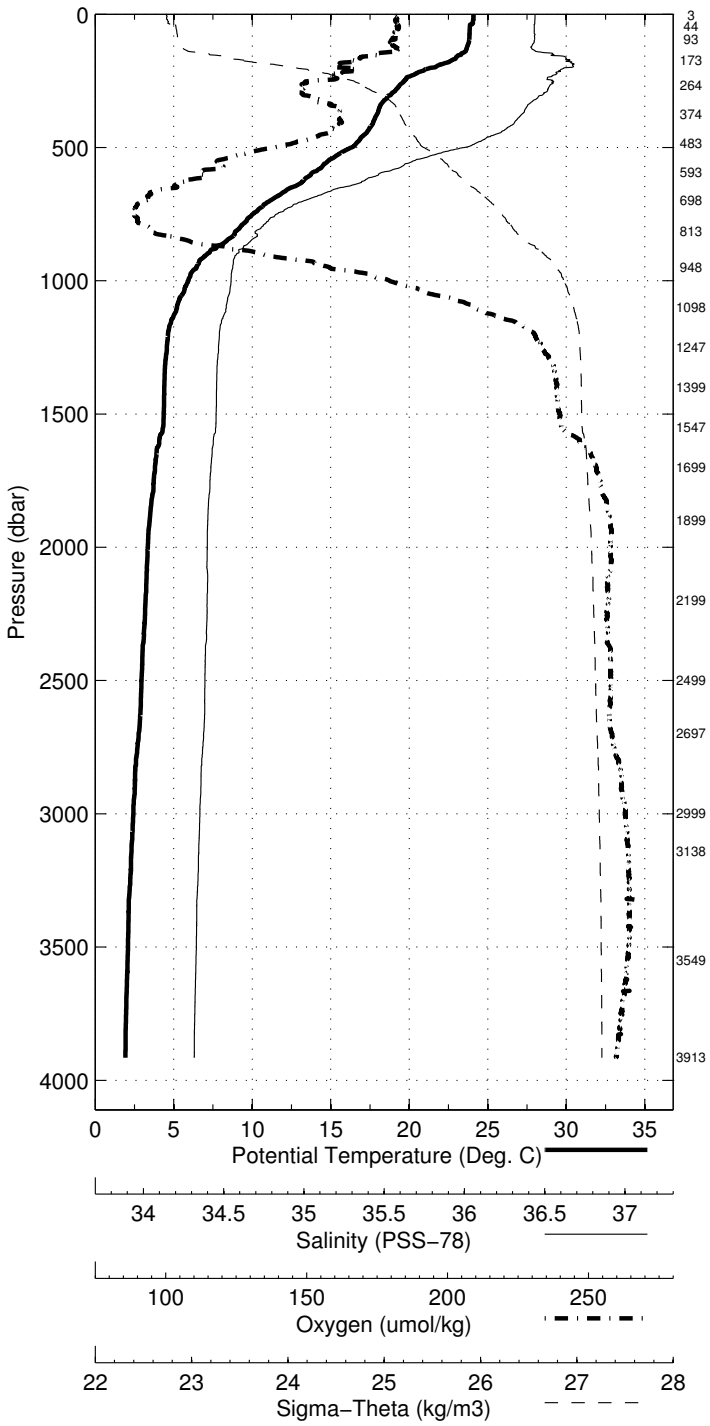

Abaco February – March 2013 R/V Brown
CTD Station 25 (CTD025)
Latitude 26.508 N Longitude 76.656 W
27–Feb–2013 07:56 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

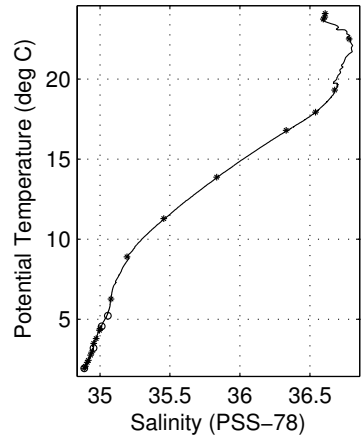
Abaco February - March 2013 R/V Brown
CTD Station 26 (CTD026)
Latitude 26.501N Longitude 76.744W
27-Feb-2013 12:04Z

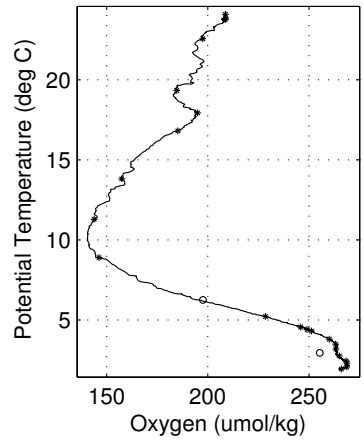
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.097	24.096	36.608	208.4	0.003	24.831
10	24.088	24.086	36.608	208.4	0.031	24.834
20	24.079	24.074	36.608	208.1	0.062	24.837
30	24.058	24.051	36.607	208.8	0.093	24.843
50	23.872	23.861	36.604	208.7	0.155	24.898
75	23.857	23.841	36.608	207.9	0.232	24.907
100	23.829	23.808	36.604	207.9	0.309	24.913
125	23.699	23.673	36.589	208.2	0.385	24.942
150	23.344	23.313	36.699	203.1	0.460	25.131
200	21.609	21.569	36.780	193.4	0.592	25.692
250	19.704	19.657	36.692	186.4	0.698	26.144
300	18.896	18.842	36.650	184.0	0.792	26.323
400	17.803	17.733	36.509	193.9	0.964	26.495
500	16.399	16.317	36.251	176.9	1.127	26.637
600	13.821	13.734	35.818	157.6	1.272	26.876
700	11.209	11.120	35.440	143.0	1.397	27.096
800	9.300	9.208	35.225	144.3	1.503	27.260
900	7.218	7.128	35.101	173.8	1.590	27.480
1000	6.011	5.919	35.073	206.6	1.657	27.621
1100	5.304	5.208	35.048	228.9	1.714	27.689
1200	4.735	4.635	35.014	244.1	1.766	27.728
1300	4.575	4.467	35.003	248.6	1.816	27.738
1400	4.514	4.398	35.000	249.9	1.866	27.743
1500	4.486	4.360	34.997	250.7	1.917	27.746
1750	3.864	3.722	34.966	261.1	2.040	27.788
2000	3.509	3.349	34.953	263.7	2.156	27.814
2500	3.148	2.946	34.941	263.8	2.382	27.843
3000	2.675	2.431	34.916	267.6	2.601	27.868
3500	2.378	2.089	34.897	268.5	2.812	27.882

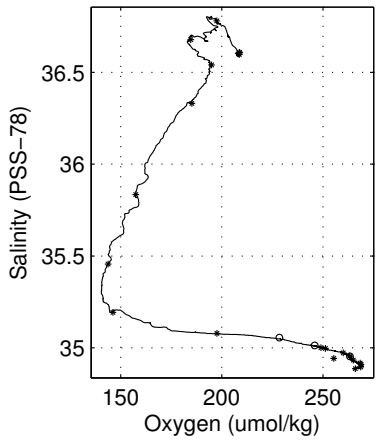
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
3914	1	2.259	1.927	34.887	265.9
3549	2	2.351	2.057	34.896	268.6
3139	3	2.562	2.306	34.909	268.7
2999	4	2.672	2.429	34.917	268.3
2698	5	2.977	2.757	34.933	265.0
2499	6	3.140	2.938	34.942	255.3
2199	7	3.368	3.191	34.954	263.3
1900	8	3.635	3.482	34.956	263.1
1699	9	3.927	3.789	34.972	260.0
1548	10	4.444	4.314	34.997	251.2
1399	11	4.518	4.401	35.001	249.0
1248	12	4.660	4.556	35.013	245.9
1098	13	5.316	5.220	35.056	228.4
949	14	6.349	6.260	35.079	197.6
814	15	8.991	8.899	35.193	146.1
699	16	11.373	11.282	35.456	143.8
594	17	13.962	13.875	35.835	157.5
483	18	16.879	16.798	36.331	185.1
374	19	18.005	17.940	36.540	194.9
264	20	19.374	19.326	36.678	184.7
173	21	22.550	22.515	36.780	197.5
94	22	23.779	23.759	36.597	208.6
44	23	23.896	23.887	36.606	208.9
3	24	24.100	24.099	36.610	208.6

Abaco February – March 2013 R/V Brown
CTD Station 26 (CTD026)
Latitude 26.501 N Longitude 76.744 W
27–Feb–2013 12:04 Z





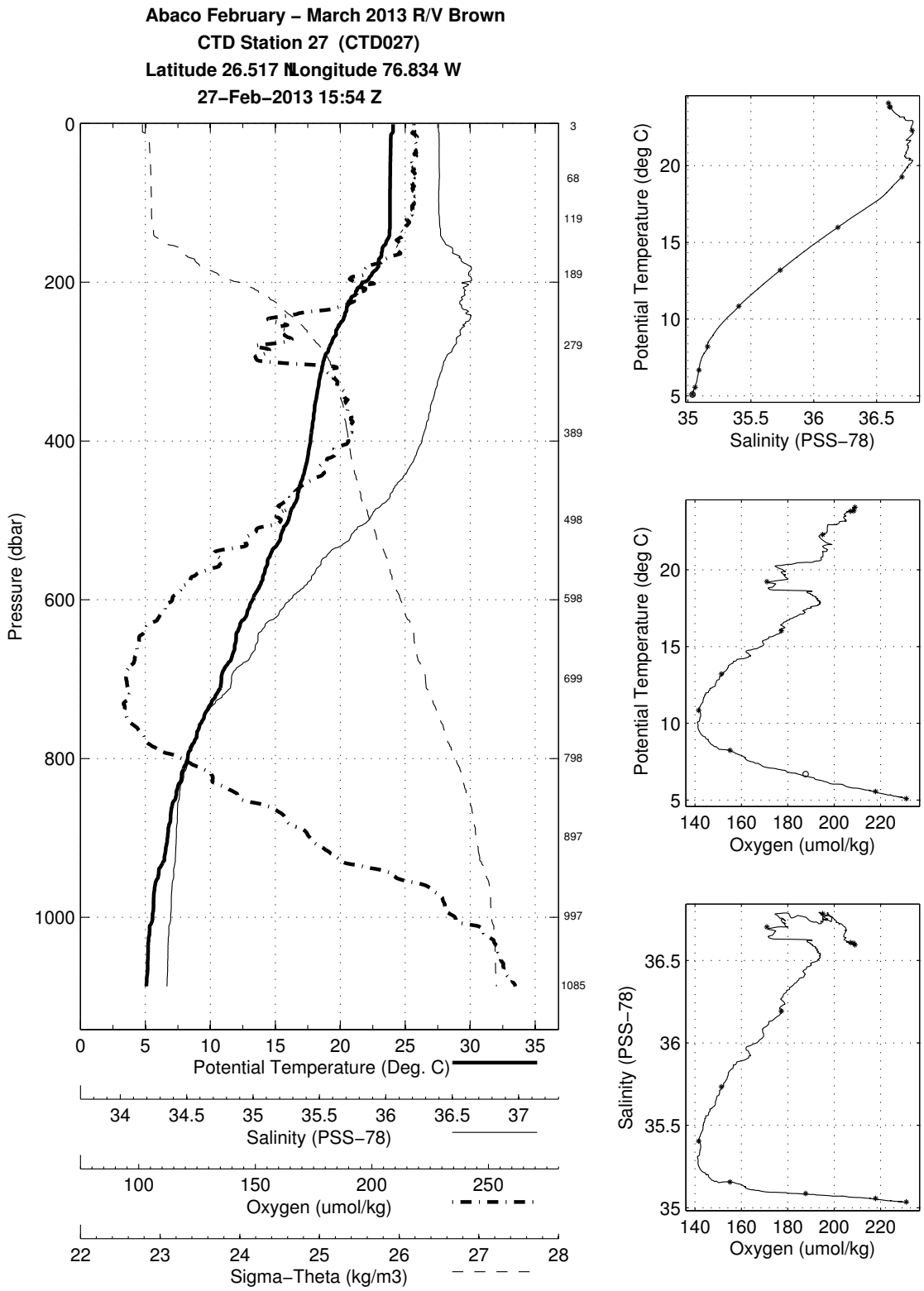




Abaco February - March 2013 R/V Brown
CTD Station 27 (CTD027)
Latitude 26.517N Longitude 76.834W
27-Feb-2013 15:54Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	24.060	24.059	36.599	208.2	0.003	24.835
10	24.064	24.062	36.600	208.4	0.031	24.834
20	23.892	23.887	36.603	208.9	0.062	24.889
30	23.885	23.878	36.603	208.7	0.092	24.892
50	23.864	23.854	36.604	208.0	0.154	24.900
75	23.850	23.834	36.603	207.5	0.230	24.905
100	23.844	23.823	36.601	208.3	0.307	24.907
125	23.853	23.827	36.606	207.2	0.385	24.909
150	23.549	23.518	36.636	204.9	0.461	25.024
200	21.806	21.767	36.750	196.6	0.599	25.614
250	20.116	20.069	36.755	176.6	0.709	26.083
300	18.733	18.679	36.629	174.1	0.803	26.349
400	17.778	17.709	36.504	193.2	0.975	26.497
500	16.085	16.004	36.197	177.5	1.137	26.668
600	13.335	13.249	35.743	152.3	1.278	26.918
700	10.935	10.846	35.405	141.7	1.399	27.119
800	8.341	8.254	35.158	154.5	1.498	27.359
900	6.786	6.698	35.086	184.3	1.575	27.529
1000	5.637	5.548	35.054	217.8	1.637	27.652

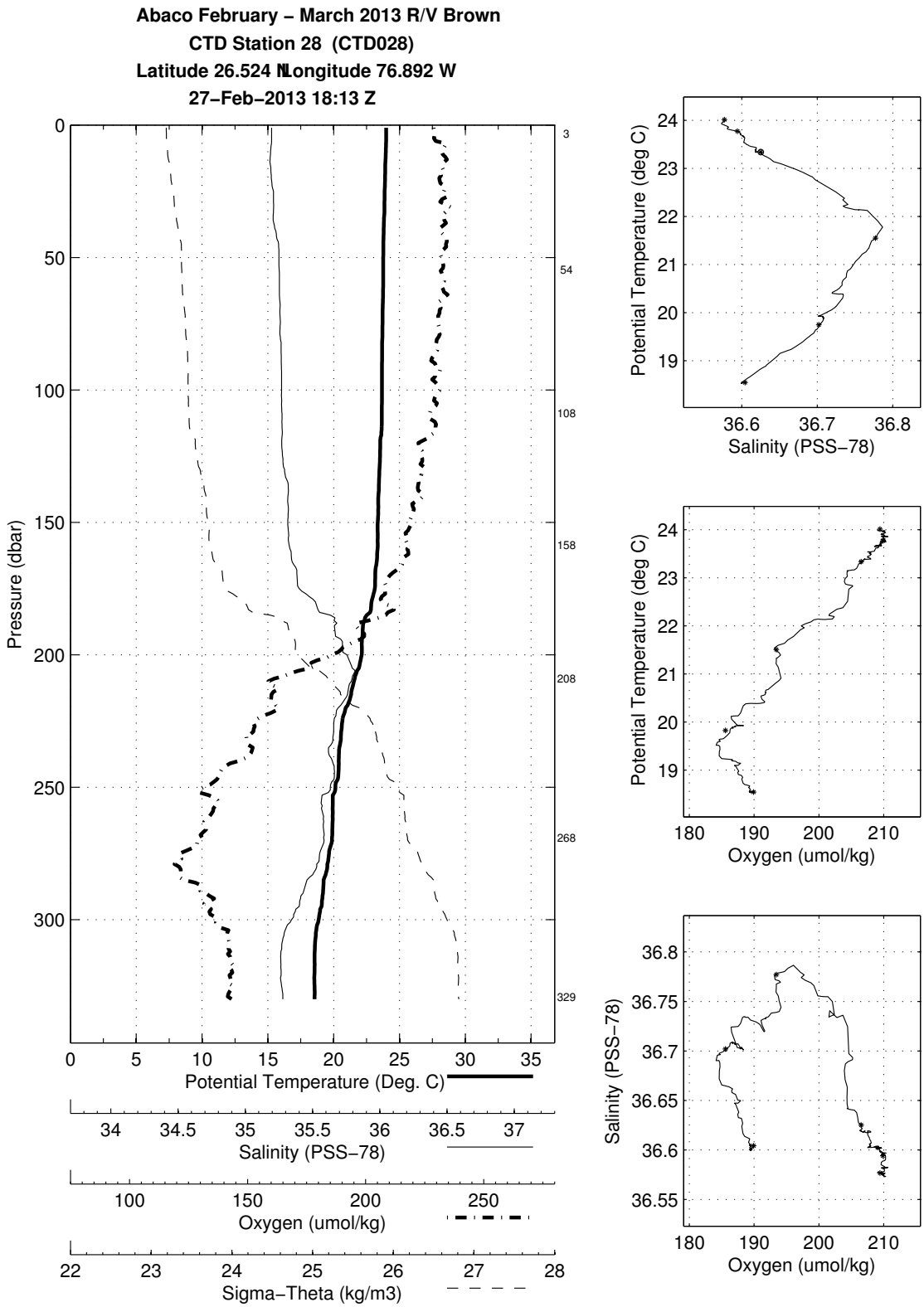
Pressure	Niskin	Temp90	PoTemp90	Salinity	Oxygen
dbar		°C	°C	PSS-78	μmol·kg^{-1}
1086	1	5.181	5.087	35.036	231.0
998	2	5.646	5.557	35.057	217.8
898	3	6.766	6.680	35.087	187.7
799	4	8.297	8.211	35.156	155.1
700	5	10.929	10.841	35.404	141.5
598	6	13.271	13.186	35.734	151.4
499	7	16.063	15.982	36.193	177.2
389	8	17.901	18.281	−999.000	NaN
280	9	19.309	19.258	36.702	171.0
190	10	22.335	22.297	36.783	195.0
119	11	23.847	23.821	36.608	207.0
69	12	23.849	23.835	36.604	208.4
3	13	24.075	24.075	36.595	208.9


Abaco February – March 2013 R/V Brown
CTD Station 27 (CTD027)
Latitude 26.517 N Longitude 76.834 W
27–Feb–2013 15:54 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 28 (CTD028)
Latitude 26.524N Longitude 76.892W
27-Feb-2013 18:13Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	23.988	23.988	36.577	209.0	0.003	24.840
10	23.959	23.957	36.575	209.8	0.031	24.847
20	23.910	23.905	36.577	209.6	0.062	24.864
30	23.867	23.860	36.582	210.2	0.093	24.881
50	23.778	23.767	36.596	209.8	0.154	24.919
75	23.726	23.710	36.599	209.5	0.230	24.939
100	23.690	23.669	36.602	209.7	0.306	24.953
125	23.552	23.526	36.605	207.8	0.382	24.997
150	23.379	23.348	36.618	206.9	0.456	25.060
200	22.166	22.126	36.766	199.2	0.596	25.525
250	20.174	20.127	36.724	186.9	0.707	26.044
300	18.903	18.849	36.627	188.2	0.805	26.304

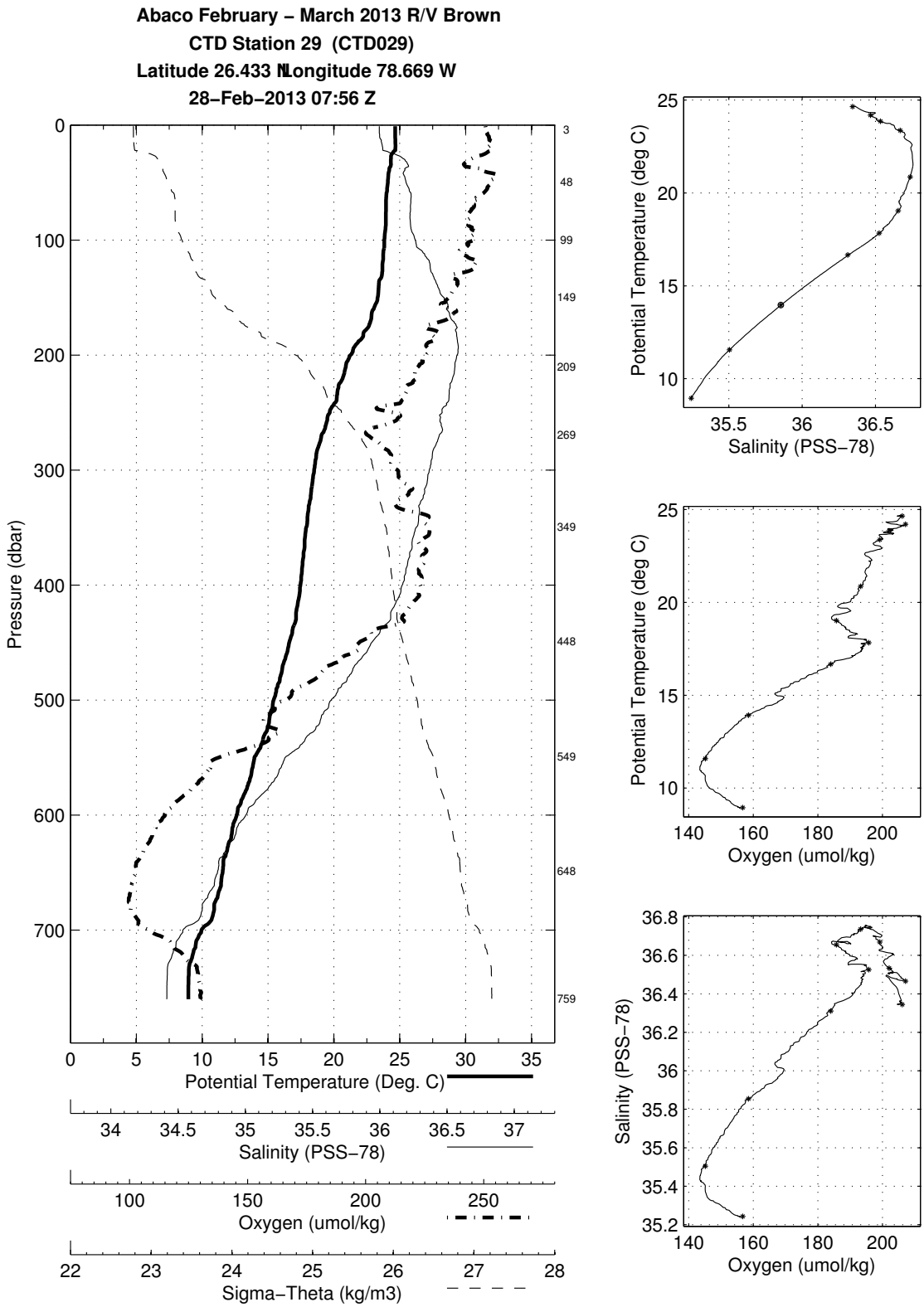
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
329	1	18.607	18.548	36.604	189.9
269	2	19.799	19.749	36.702	185.6
209	3	21.593	21.552	36.777	193.4
159	4	23.373	23.340	36.625	206.5
109	5	23.681	23.758	−999.000	NaN
54	6	23.786	23.774	36.594	209.9
3	7	24.015	24.014	36.577	209.4


Abaco February – March 2013 R/V Brown
CTD Station 28 (CTD028)
Latitude 26.524 N Longitude 76.892 W
27–Feb–2013 18:13 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 29 (CTD029)
Latitude 26.433N Longitude 78.669W
28-Feb-2013 07:56Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.649	24.649	36.345	204.8	0.003	24.465
10	24.654	24.652	36.347	205.5	0.035	24.466
20	24.671	24.667	36.363	205.5	0.069	24.473
30	24.333	24.326	36.478	202.2	0.103	24.663
50	24.102	24.092	36.484	205.9	0.168	24.738
75	23.967	23.952	36.507	202.2	0.247	24.797
100	23.851	23.830	36.533	202.9	0.326	24.853
125	23.711	23.685	36.611	202.8	0.403	24.955
150	23.353	23.322	36.682	198.6	0.478	25.116
200	21.288	21.249	36.749	194.7	0.609	25.758
250	19.734	19.688	36.672	189.1	0.717	26.120
300	18.552	18.499	36.605	189.7	0.809	26.377
400	17.520	17.452	36.464	193.6	0.977	26.529
500	15.503	15.424	36.096	170.2	1.135	26.722
600	12.698	12.615	35.652	149.7	1.272	26.976
700	10.027	9.943	35.326	147.0	1.387	27.216

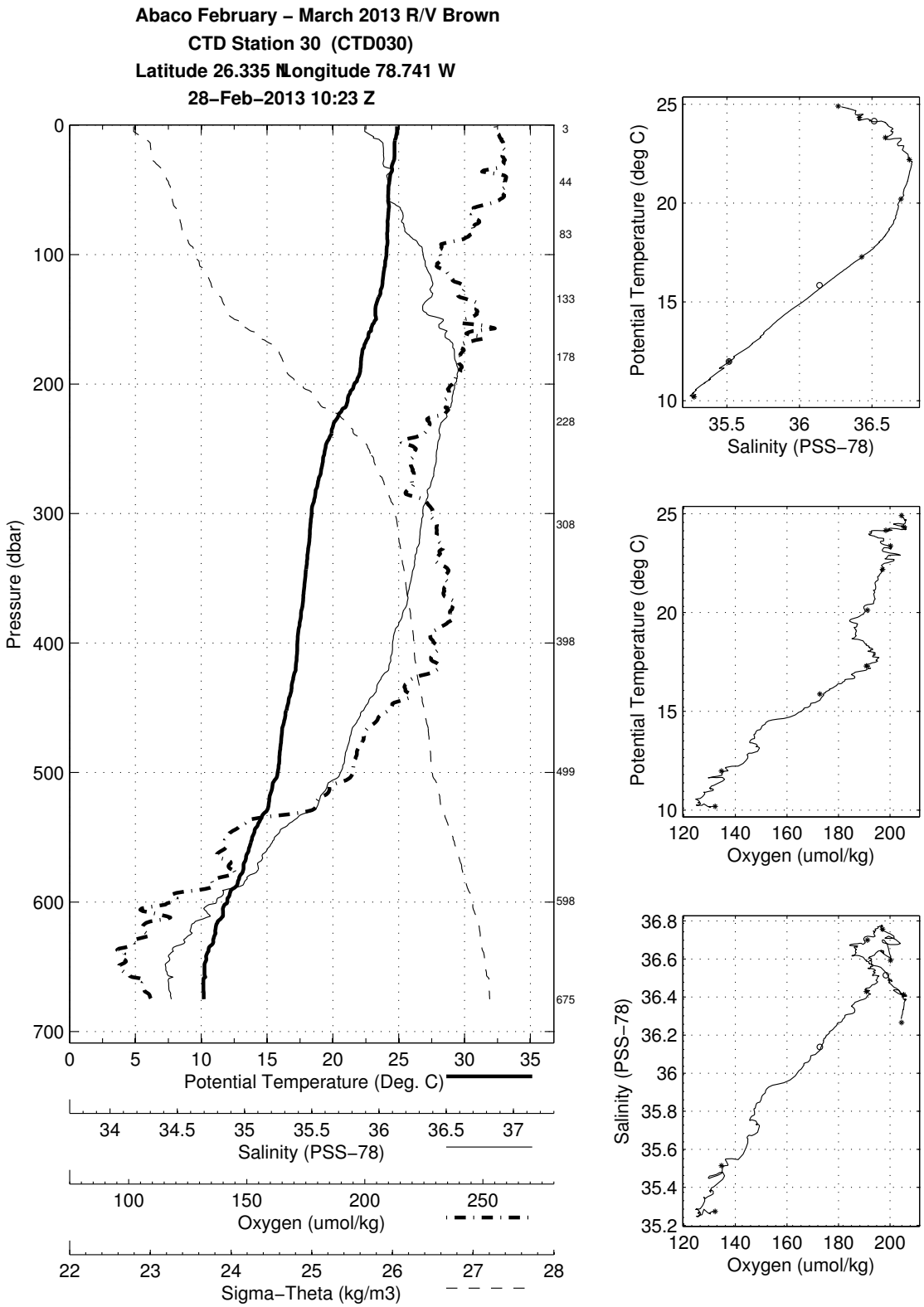
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
760	1	9.030	8.945	35.243	156.7
649	2	11.639	11.554	35.504	145.2
549	3	14.043	13.962	35.855	158.5
449	4	16.737	16.663	36.310	184.0
349	5	17.900	17.840	36.526	195.8
269	6	19.090	19.041	36.655	185.8
210	7	20.899	20.859	36.736	193.3
149	8	23.398	23.367	36.669	199.2
99	9	23.882	23.861	36.533	202.1
49	10	24.196	24.185	36.466	207.1
4	11	24.645	24.645	36.344	206.1


Abaco February – March 2013 R/V Brown
CTD Station 29 (CTD029)
Latitude 26.433 N Longitude 78.669 W
28–Feb–2013 07:56 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 30 (CTD030)
Latitude 26.335N Longitude 78.741W
28-Feb-2013 10:23Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.871	24.871	36.289	204.2	0.004	24.355
10	24.791	24.789	36.334	205.2	0.035	24.414
20	24.680	24.676	36.387	206.2	0.070	24.488
30	24.533	24.527	36.384	205.9	0.104	24.532
50	24.225	24.215	36.407	205.6	0.171	24.643
75	24.167	24.151	36.483	200.8	0.253	24.719
100	24.087	24.065	36.594	192.5	0.333	24.829
125	23.743	23.716	36.638	197.6	0.410	24.966
150	23.311	23.280	36.699	197.6	0.484	25.141
200	21.654	21.615	36.760	195.2	0.615	25.664
250	19.464	19.418	36.668	187.4	0.722	26.188
300	18.434	18.381	36.593	190.9	0.813	26.397
400	17.364	17.296	36.434	191.3	0.981	26.544
500	15.885	15.804	36.162	174.2	1.138	26.687
600	12.050	11.969	35.514	135.9	1.275	26.994

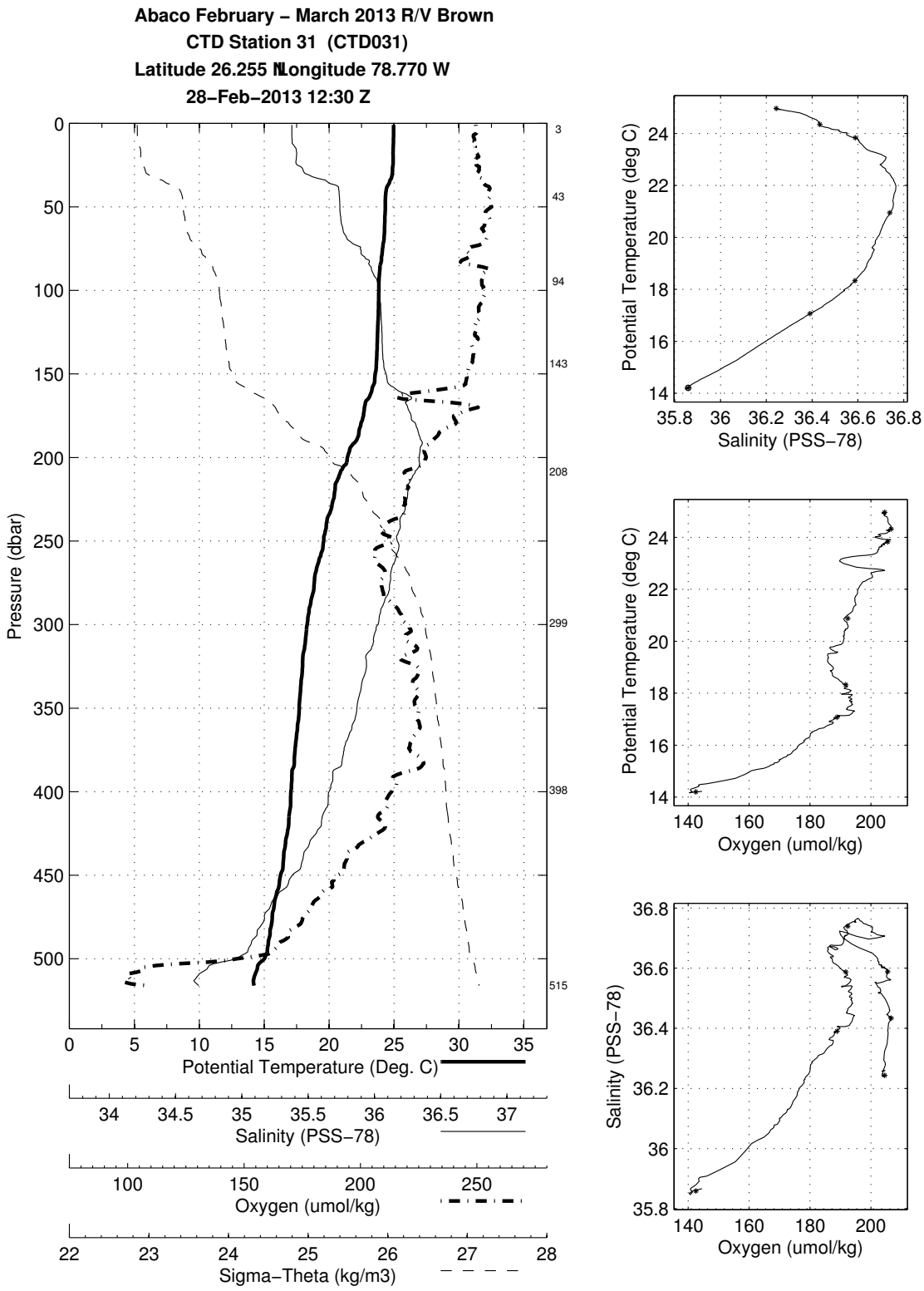
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
675	1	10.278	10.196	35.274	132.1
599	2	12.065	11.985	35.514	134.6
499	3	15.922	15.842	36.138	172.7
399	4	17.345	17.277	36.429	190.8
308	5	18.326	18.623	−999.000	NaN
229	6	20.248	20.205	36.700	191.3
179	7	22.232	22.196	36.757	197.1
134	8	23.343	23.315	36.592	200.1
84	9	24.161	24.143	36.515	198.3
44	10	24.347	24.338	36.413	205.3
3	11	24.904	24.903	36.266	204.4


Abaco February – March 2013 R/V Brown
CTD Station 30 (CTD030)
Latitude 26.335 N Longitude 78.741 W
28–Feb–2013 10:23 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 31 (CTD031)
Latitude 26.255N Longitude 78.770W
28-Feb-2013 12:30Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.962	24.962	36.241	204.0	0.004	24.291
10	24.959	24.957	36.242	203.8	0.036	24.294
20	24.930	24.926	36.259	204.6	0.072	24.316
30	24.877	24.870	36.293	204.2	0.108	24.359
50	24.335	24.324	36.434	206.9	0.176	24.630
75	24.132	24.116	36.516	202.7	0.258	24.755
100	23.849	23.828	36.589	205.7	0.337	24.896
125	23.758	23.732	36.603	204.0	0.414	24.935
150	23.581	23.549	36.620	202.7	0.490	25.002
200	21.444	21.404	36.753	195.1	0.624	25.717
250	19.630	19.583	36.665	189.1	0.730	26.142
300	18.365	18.312	36.588	191.8	0.821	26.411
400	17.123	17.056	36.390	188.8	0.987	26.569
500	15.094	15.017	36.016	160.7	1.141	26.752

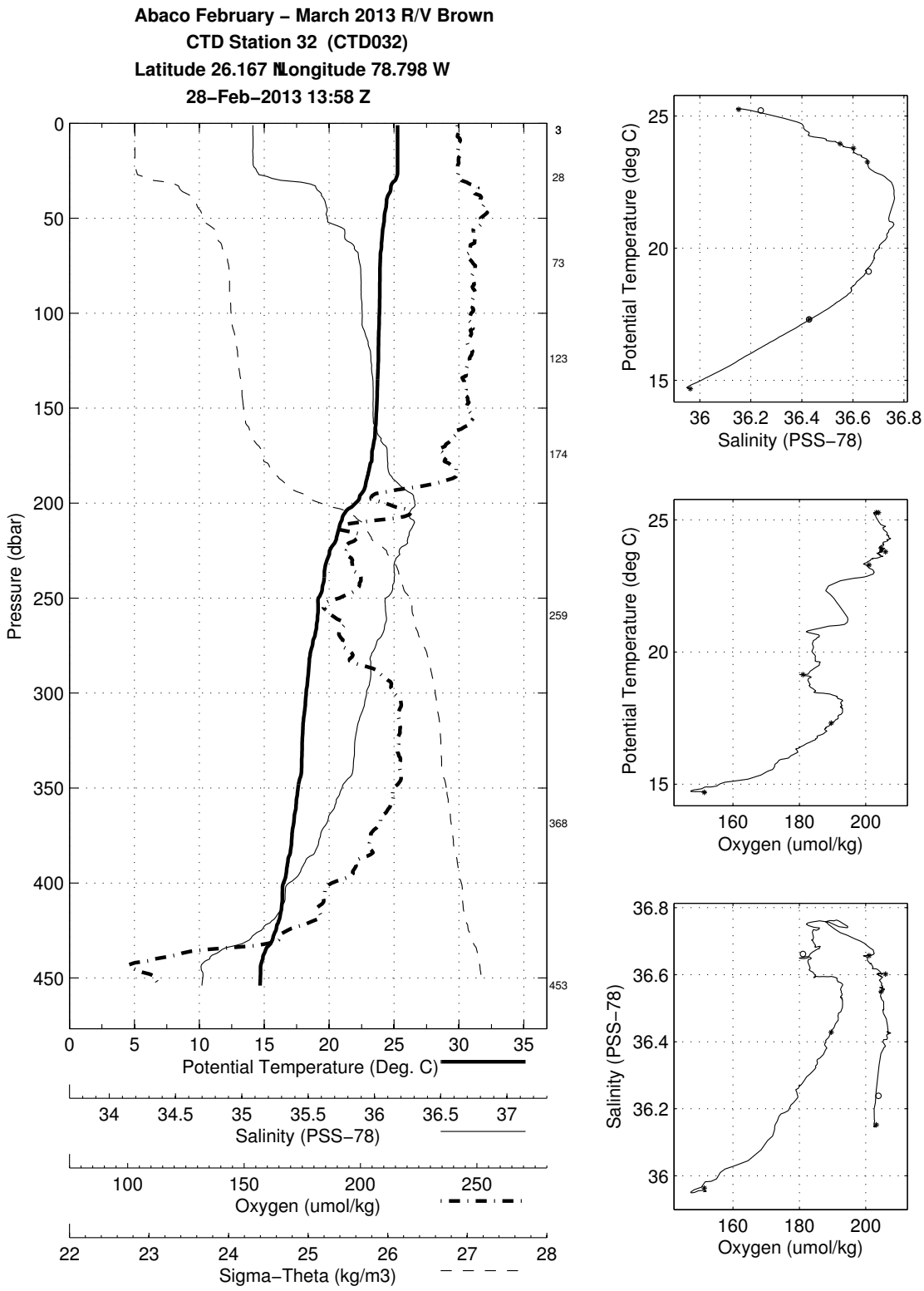
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
516	1	14.286	14.209	35.859	142.5
399	2	17.136	17.069	36.390	188.9
299	3	18.386	18.333	36.587	191.7
208	4	20.993	20.953	36.739	192.4
144	5	23.695	23.797	−999.000	NaN
94	6	23.856	23.837	36.589	205.5
44	7	24.359	24.350	36.434	206.6
3	8	24.963	24.962	36.244	204.5


Abaco February – March 2013 R/V Brown
CTD Station 31 (CTD031)
Latitude 26.255 N Longitude 78.770 W
28–Feb–2013 12:30 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 32 (CTD032)
Latitude 26.167N Longitude 78.798W
28-Feb-2013 13:58Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.274	25.273	36.146	202.5	0.004	24.124
10	25.275	25.273	36.147	202.8	0.038	24.125
20	25.276	25.272	36.147	202.7	0.076	24.125
30	25.099	25.093	36.252	203.1	0.113	24.259
50	24.259	24.248	36.429	206.4	0.181	24.650
75	23.937	23.921	36.555	205.5	0.261	24.842
100	23.900	23.878	36.562	204.8	0.339	24.860
125	23.815	23.788	36.595	204.6	0.417	24.912
150	23.694	23.662	36.603	204.3	0.494	24.956
200	22.077	22.037	36.761	190.4	0.638	25.546
250	19.207	19.161	36.651	182.6	0.742	26.242
300	18.283	18.231	36.579	191.8	0.832	26.424
400	16.542	16.476	36.282	181.4	0.996	26.624

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
454	1	14.750	14.681	35.963	151.4
369	2	17.366	17.304	36.428	189.6
259	3	19.165	19.118	36.662	181.1
174	4	23.291	23.255	36.657	201.0
124	5	23.807	23.781	36.602	206.0
74	6	23.964	23.948	36.550	204.7
28	7	25.213	25.207	36.239	203.9
3	8	25.252	25.251	36.152	203.2
4	9	25.250	25.252	−999.000	NaN

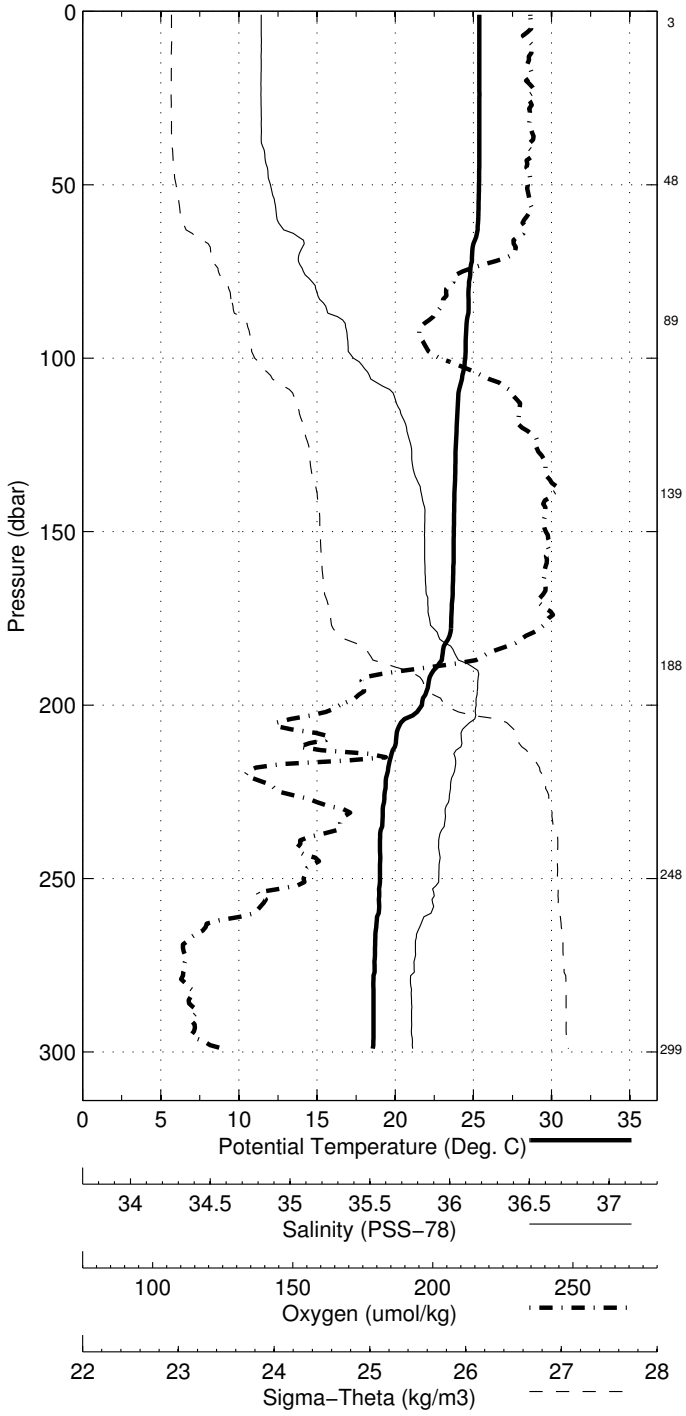

Abaco February – March 2013 R/V Brown
CTD Station 32 (CTD032)
Latitude 26.167 N Longitude 78.798 W
28–Feb–2013 13:58 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

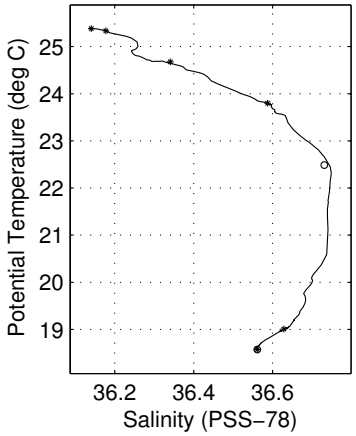
Abaco February - March 2013 R/V Brown
CTD Station 33 (CTD033)
Latitude 26.068N Longitude 78.849W
28-Feb-2013 15:30Z

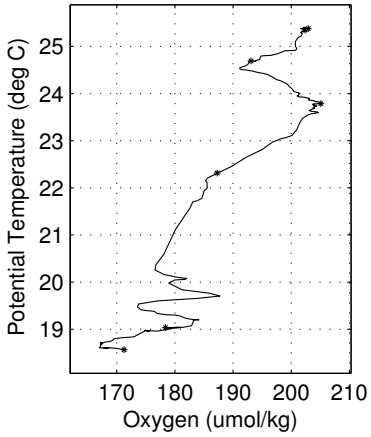
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.381	25.381	36.138	202.4	0.004	24.085
10	25.382	25.380	36.138	202.7	0.038	24.085
20	25.388	25.384	36.138	202.0	0.076	24.083
30	25.389	25.382	36.138	202.3	0.115	24.084
50	25.371	25.360	36.164	202.2	0.191	24.111
75	24.822	24.806	36.256	195.6	0.285	24.350
100	24.501	24.479	36.397	193.2	0.372	24.555
125	23.901	23.875	36.558	202.9	0.453	24.858
150	23.783	23.751	36.596	204.0	0.530	24.924
200	21.743	21.703	36.741	183.1	0.676	25.625
250	19.072	19.027	36.636	179.4	0.773	26.265

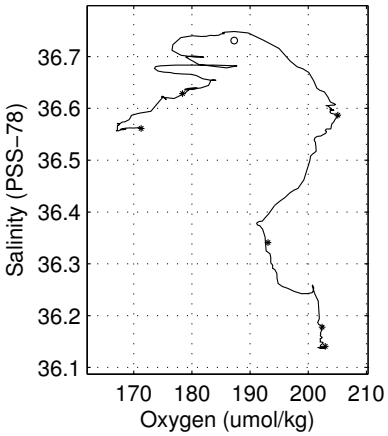
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
299	1	18.627	18.574	36.561	171.3
249	2	19.051	19.006	36.629	178.4
189	3	22.523	22.485	36.731	187.3
139	4	23.828	23.799	36.587	205.1
89	5	24.694	24.675	36.341	193.1
49	6	25.346	25.335	36.178	202.4
3	7	25.384	25.383	36.141	202.9

Abaco February – March 2013 R/V Brown
CTD Station 33 (CTD033)
Latitude 26.068 N Longitude 78.849 W
28–Feb–2013 15:30 Z





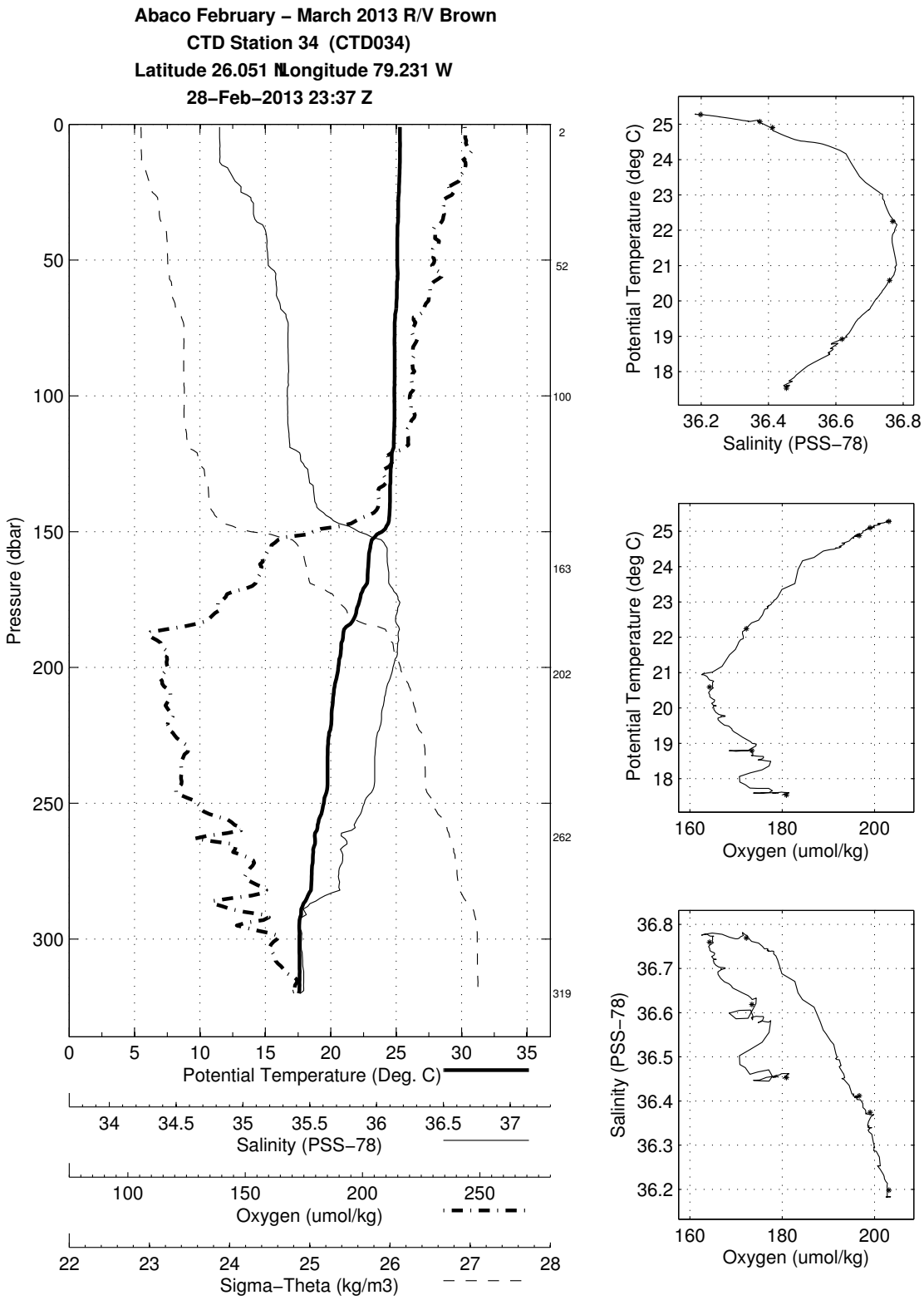




Abaco February - March 2013 R/V Brown
CTD Station 34 (CTD034)
Latitude 26.051N Longitude 79.231W
28-Feb-2013 23:37Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.287	25.287	36.183	202.7	0.004	24.147
10	25.285	25.283	36.183	203.5	0.038	24.149
20	25.246	25.242	36.229	202.1	0.075	24.196
30	25.160	25.154	36.295	200.0	0.112	24.273
50	25.093	25.082	36.344	198.8	0.184	24.332
75	24.895	24.879	36.410	196.1	0.274	24.444
100	24.882	24.861	36.408	195.7	0.362	24.448
125	24.654	24.627	36.461	193.3	0.449	24.559
150	23.948	23.916	36.645	183.4	0.533	24.912
200	20.602	20.564	36.758	165.1	0.658	25.952
250	19.507	19.461	36.664	168.7	0.758	26.174
300	17.653	17.602	36.455	178.9	0.847	26.486

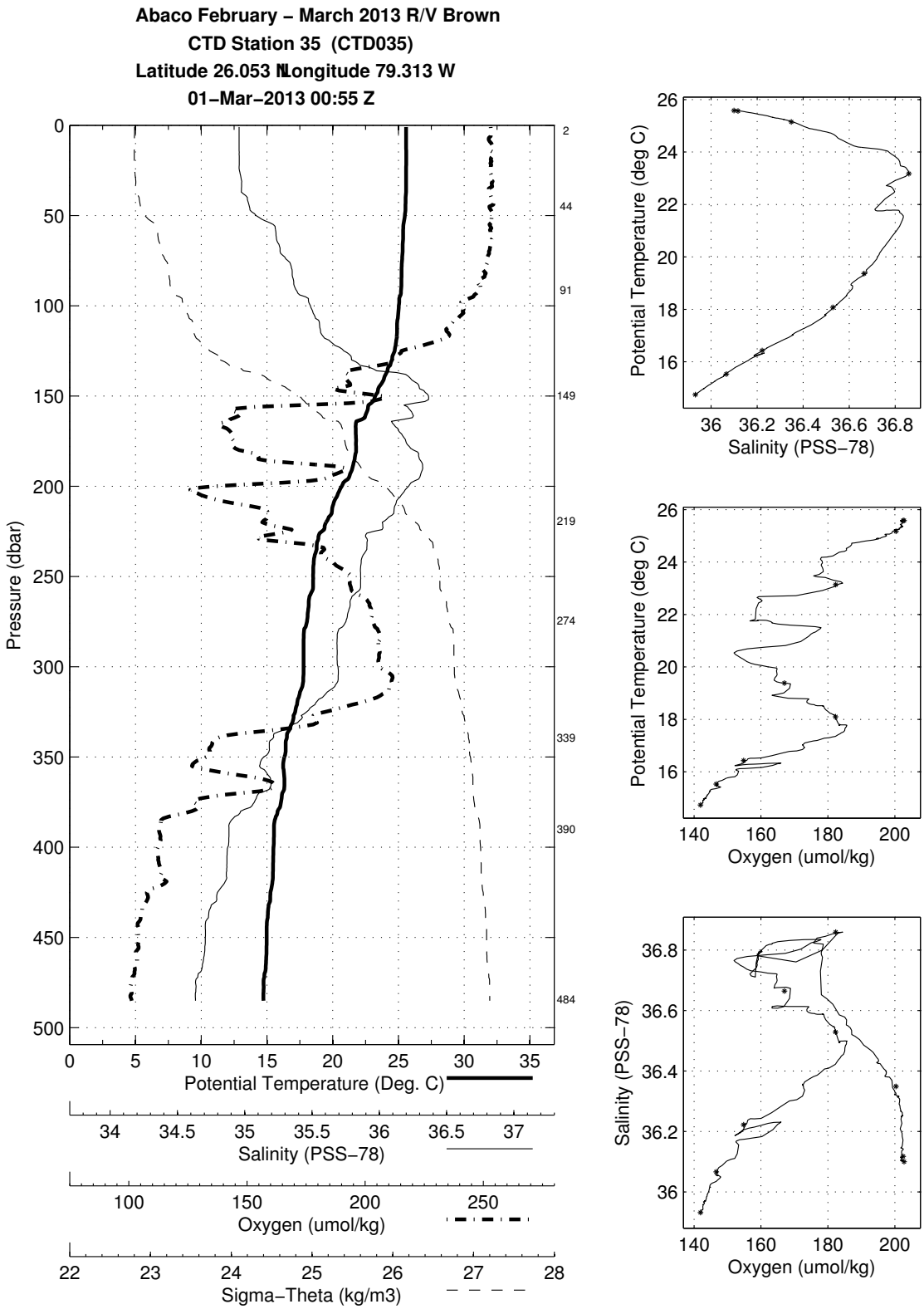
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
320	1	17.590	17.535	36.453	180.9
262	2	18.970	18.922	36.618	173.4
203	3	20.622	20.584	36.760	164.3
164	4	22.284	22.251	36.769	172.2
100	5	24.926	24.904	36.412	196.7
52	6	25.087	25.076	36.374	199.0
3	7	25.270	25.270	36.198	203.1


Abaco February – March 2013 R/V Brown
CTD Station 34 (CTD034)
Latitude 26.051 N Longitude 79.231 W
28–Feb–2013 23:37 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 35 (CTD035)
Latitude 26.053N Longitude 79.313W
01-Mar-2013 00:55Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.587	25.586	36.104	202.0	0.004	23.995
10	25.592	25.590	36.104	202.1	0.039	23.995
20	25.599	25.595	36.105	202.2	0.078	23.993
30	25.588	25.581	36.113	201.9	0.117	24.004
50	25.508	25.497	36.172	202.4	0.195	24.074
75	25.291	25.274	36.298	201.4	0.289	24.239
100	25.056	25.035	36.388	197.4	0.381	24.380
125	24.745	24.718	36.521	187.1	0.469	24.577
150	23.276	23.245	36.858	183.9	0.545	25.272
200	20.730	20.691	36.779	155.9	0.667	25.933
250	18.560	18.516	36.588	178.6	0.762	26.360
300	17.840	17.788	36.498	183.5	0.846	26.473
400	15.568	15.505	36.059	146.5	1.003	26.676

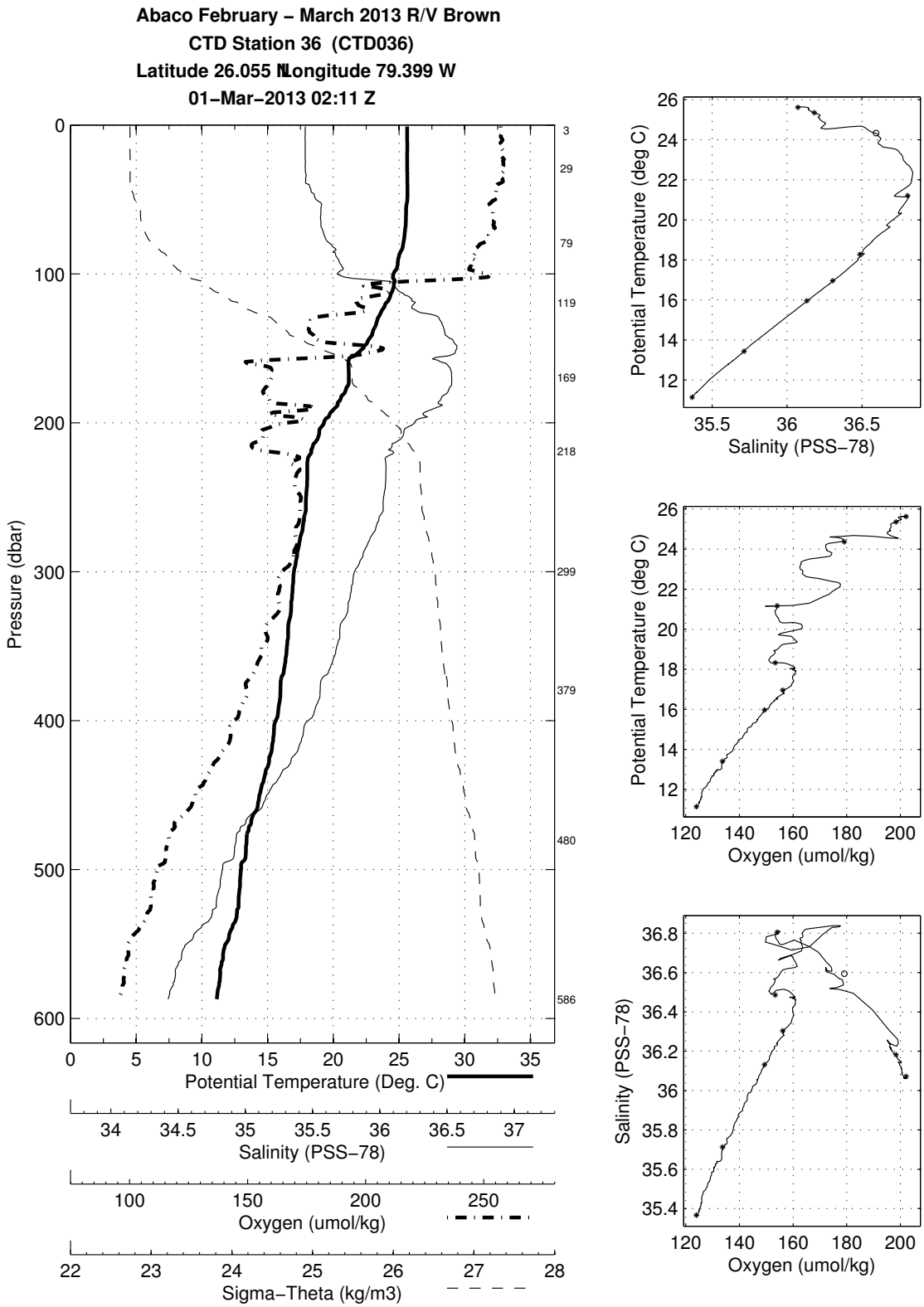
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
484	1	14.823	14.749	35.932	141.9
390	2	15.596	15.535	36.066	146.6
339	3	16.485	16.430	36.222	154.8
274	4	18.126	18.078	36.529	182.3
219	5	19.403	19.363	36.664	167.0
150	6	23.206	23.175	36.859	182.3
91	7	25.166	25.146	36.349	200.3
45	8	25.572	25.562	36.117	202.5
3	9	25.584	25.583	36.100	202.8


Abaco February – March 2013 R/V Brown
CTD Station 35 (CTD035)
Latitude 26.053 N Longitude 79.313 W
01–Mar–2013 00:55 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 36 (CTD036)
Latitude 26.055N Longitude 79.399W
01-Mar-2013 02:11Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.624	25.624	36.062	201.5	0.004	23.952
10	25.622	25.620	36.062	201.9	0.039	23.953
20	25.627	25.623	36.062	201.7	0.079	23.952
30	25.631	25.625	36.062	202.4	0.119	23.952
50	25.645	25.633	36.118	200.4	0.198	23.991
75	25.417	25.400	36.163	199.1	0.295	24.098
100	24.596	24.574	36.225	198.6	0.387	24.397
125	23.679	23.653	36.636	173.7	0.469	24.984
150	22.295	22.265	36.838	177.7	0.538	25.540
200	19.317	19.281	36.620	158.0	0.646	26.187
250	17.966	17.923	36.463	161.0	0.734	26.412
300	17.046	16.996	36.314	157.1	0.817	26.524
400	15.684	15.621	36.077	147.3	0.974	26.663
500	13.038	12.968	35.638	131.6	1.114	26.894

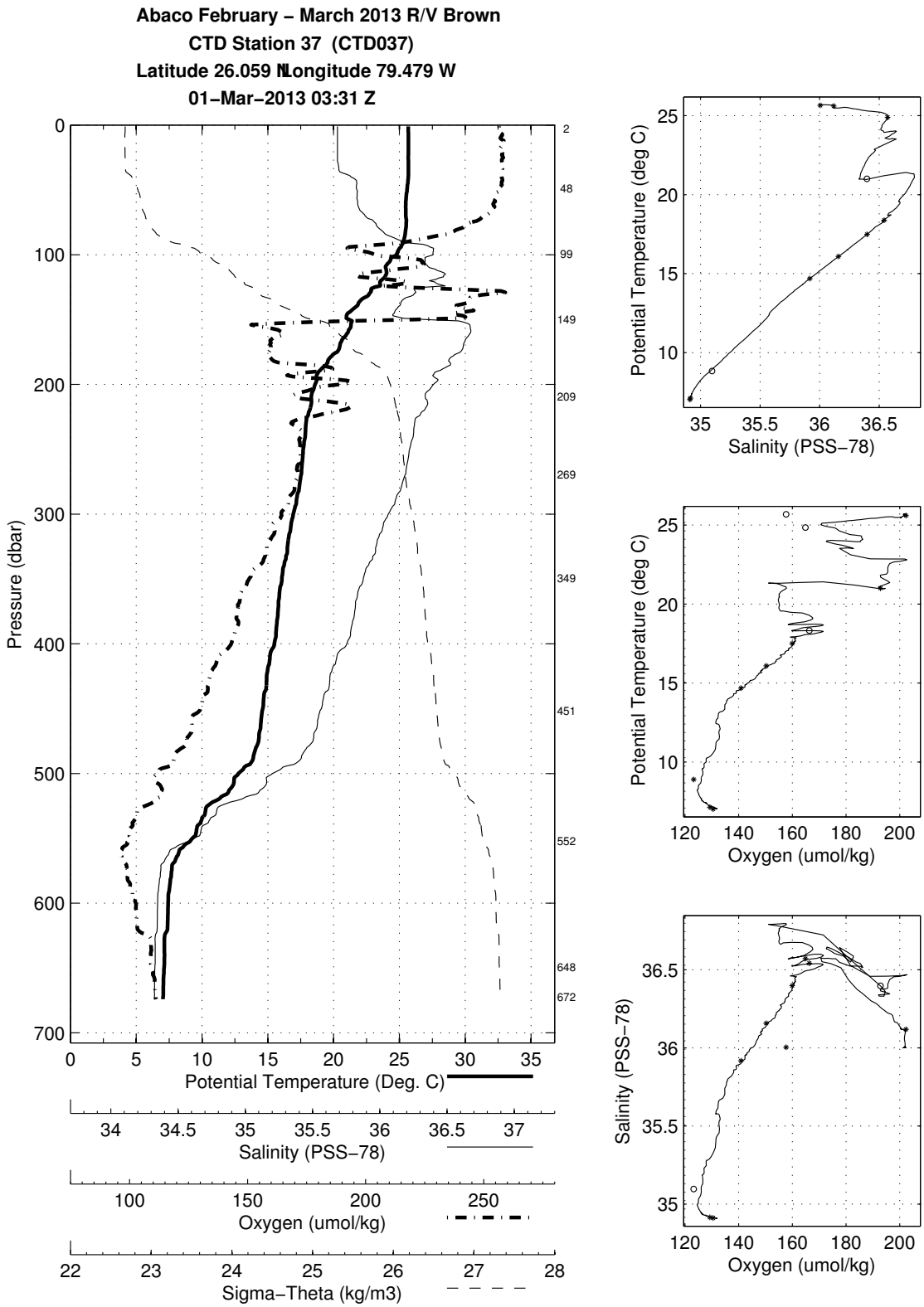
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
587	1	11.214	11.139	35.367	123.9
480	2	13.508	13.439	35.713	133.6
379	3	16.019	15.958	36.132	149.3
300	4	17.008	16.958	36.304	156.1
219	5	18.311	18.273	36.486	153.3
169	6	21.241	21.208	36.805	154.0
120	7	24.355	24.330	36.594	179.1
79	8	25.366	25.348	36.182	198.3
29	9	25.619	25.613	36.072	202.2
3	10	25.597	25.599	−999.000	NaN


Abaco February – March 2013 R/V Brown
CTD Station 36 (CTD036)
Latitude 26.055 N Longitude 79.399 W
01–Mar–2013 02:11 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 37 (CTD037)
Latitude 26.059N Longitude 79.479W
01-Mar-2013 03:31Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.675	25.675	36.001	201.4	0.004	23.890
10	25.685	25.682	36.000	201.7	0.040	23.887
20	25.685	25.680	36.000	202.1	0.080	23.888
30	25.690	25.683	36.005	201.9	0.120	23.891
50	25.591	25.579	36.116	201.8	0.200	24.007
75	25.536	25.520	36.223	195.6	0.297	24.106
100	24.815	24.793	36.571	176.2	0.388	24.592
125	23.147	23.121	36.527	181.7	0.466	25.057
150	21.225	21.196	36.539	183.4	0.534	25.612
200	18.622	18.587	36.573	169.2	0.635	26.330
250	17.737	17.694	36.431	161.0	0.720	26.444
300	16.977	16.927	36.303	157.3	0.803	26.532
400	15.559	15.496	36.056	147.1	0.956	26.675
500	12.828	12.758	35.611	132.3	1.098	26.915
600	7.481	7.421	34.928	127.8	1.199	27.302

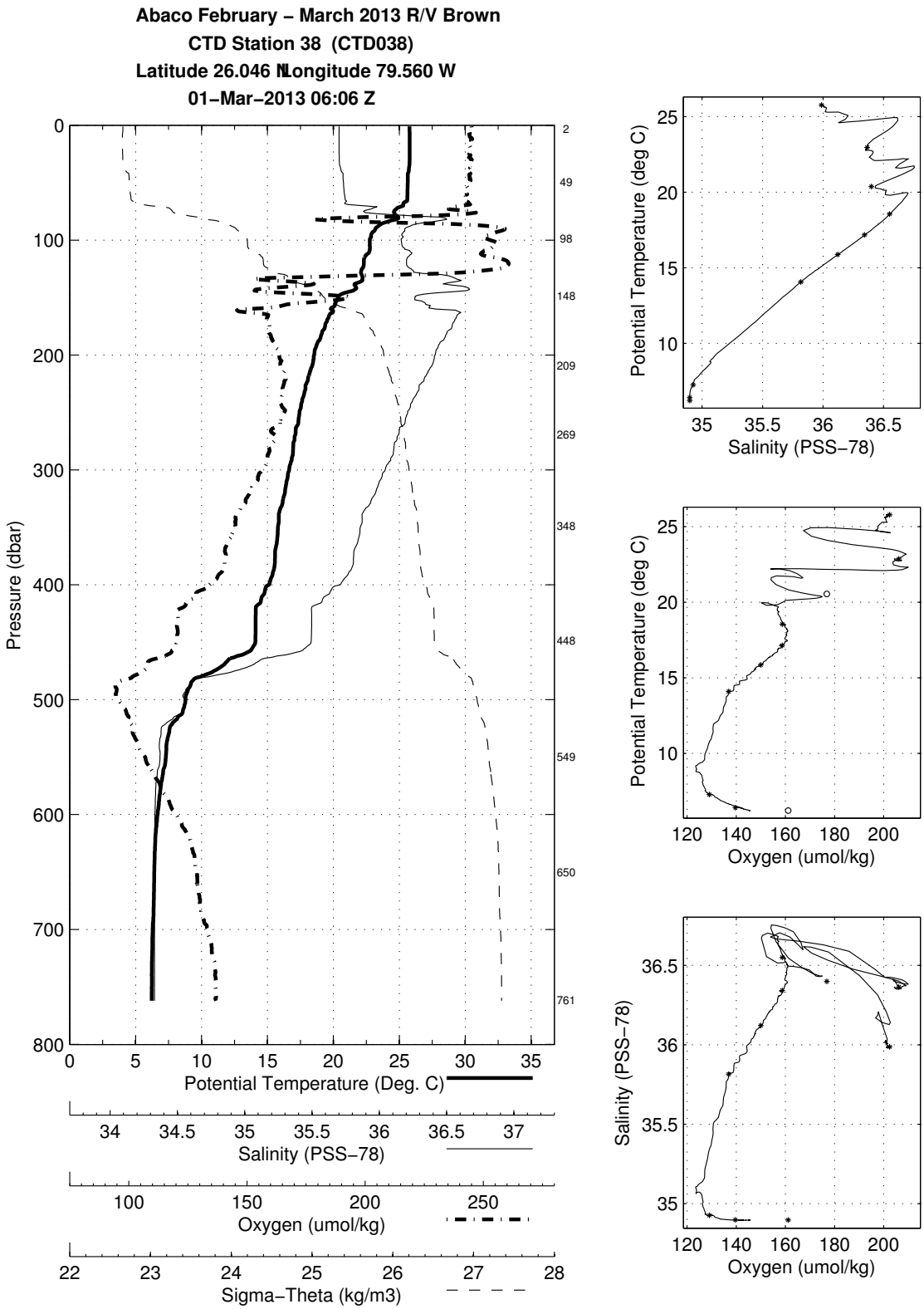
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
672	1	7.101	7.035	34.911	130.5
649	2	7.193	7.129	34.915	129.3
552	3	8.905	8.844	35.097	123.3
452	4	14.759	14.690	35.917	140.9
349	5	16.141	16.085	36.158	150.3
270	6	17.531	17.485	36.399	160.0
209	7	18.419	18.382	36.542	166.3
150	8	21.028	21.000	36.397	192.8
99	9	24.914	24.893	36.571	164.9
49	10	25.621	25.610	36.119	202.3
3	11	25.651	25.650	36.004	157.7


Abaco February – March 2013 R/V Brown
CTD Station 37 (CTD037)
Latitude 26.059 N Longitude 79.479 W
01–Mar–2013 03:31 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 38 (CTD038)
Latitude 26.046N Longitude 79.560W
01-Mar-2013 06:06Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.774	25.773	35.985	201.7	0.004	23.847
10	25.790	25.788	35.984	201.3	0.041	23.842
20	25.790	25.786	35.985	201.4	0.081	23.843
30	25.787	25.781	35.985	201.8	0.122	23.845
50	25.650	25.639	36.011	201.3	0.202	23.909
75	24.612	24.595	36.128	202.2	0.300	24.317
100	22.779	22.759	36.351	205.9	0.380	25.028
125	22.178	22.153	36.409	207.5	0.452	25.246
150	20.387	20.359	36.433	175.0	0.514	25.760
200	18.575	18.539	36.550	159.5	0.611	26.324
250	17.473	17.431	36.389	160.6	0.695	26.476
300	16.693	16.644	36.256	155.8	0.776	26.564
400	15.186	15.124	35.992	144.2	0.927	26.710
500	8.836	8.781	35.071	124.1	1.052	27.209
600	6.726	6.669	34.899	136.9	1.137	27.385
700	6.358	6.294	34.896	143.9	1.213	27.432

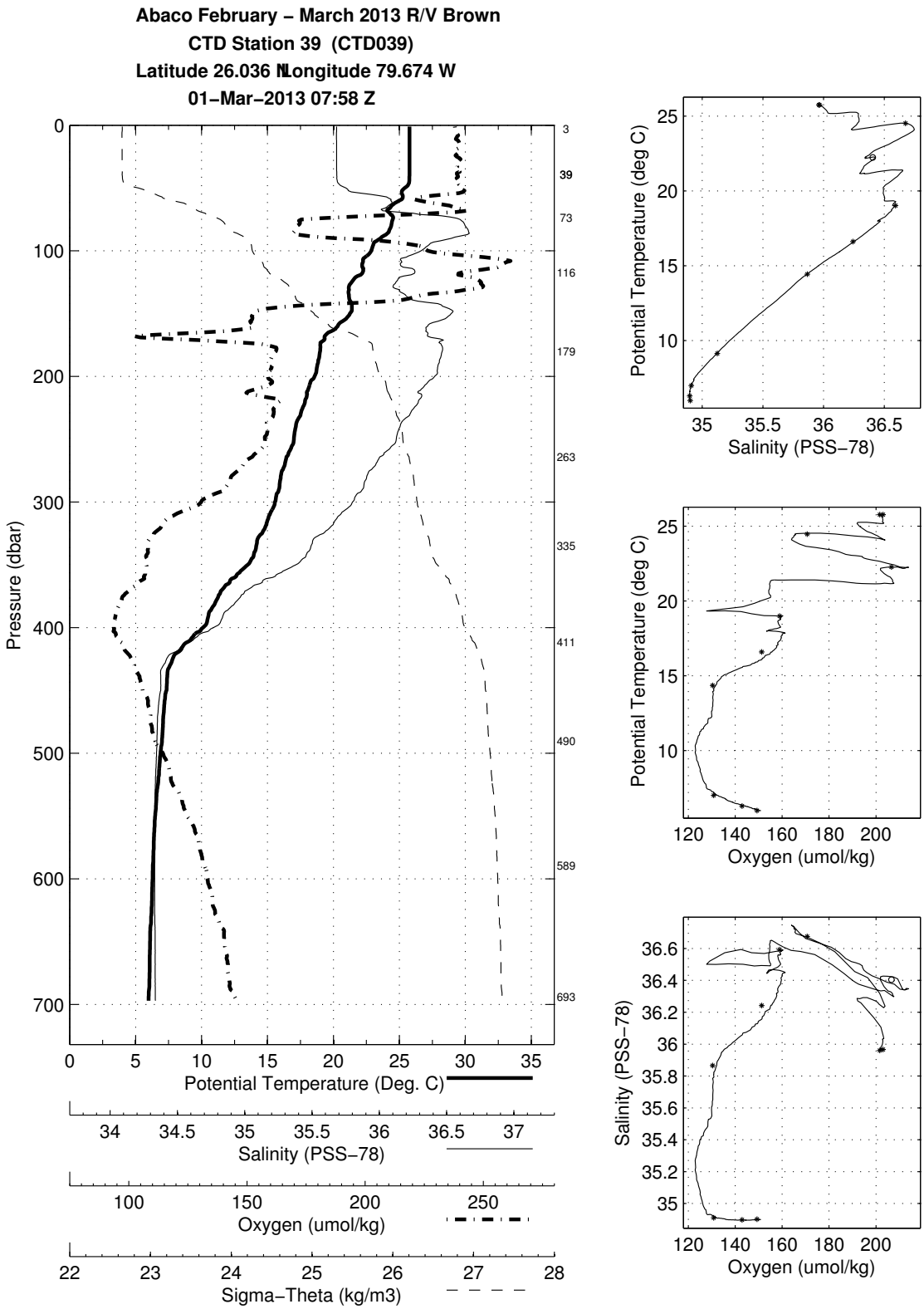
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
762	1	6.291	6.220	34.897	161.2
650	2	6.479	6.419	34.898	139.6
550	3	7.313	7.259	34.926	129.1
449	4	14.124	14.058	35.816	136.9
349	5	15.926	15.870	36.121	150.0
269	6	17.222	17.176	36.342	158.7
209	7	18.589	18.552	36.550	158.7
149	8	20.391	20.363	36.399	176.9
98	9	22.980	22.959	36.364	206.1
49	10	25.655	25.685	−999.000	NaN
3	11	25.760	25.759	35.987	202.4


Abaco February – March 2013 R/V Brown
CTD Station 38 (CTD038)
Latitude 26.046 N Longitude 79.560 W
01–Mar–2013 06:06 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 39 (CTD039)
Latitude 26.036N Longitude 79.674W
01-Mar-2013 07:58Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.763	25.763	35.966	201.1	0.004	23.836
10	25.771	25.769	35.965	201.5	0.041	23.834
20	25.773	25.769	35.966	201.2	0.081	23.834
30	25.774	25.768	35.966	201.6	0.122	23.835
50	25.410	25.399	36.021	203.0	0.203	23.991
75	24.511	24.494	36.692	166.0	0.292	24.775
100	22.886	22.865	36.463	194.9	0.367	25.083
125	21.400	21.375	36.314	207.2	0.437	25.391
150	21.274	21.245	36.639	155.0	0.499	25.675
200	18.596	18.560	36.542	158.3	0.598	26.313
250	17.044	17.003	36.317	157.7	0.681	26.525
300	15.611	15.564	36.059	143.1	0.757	26.663
400	10.150	10.103	35.241	123.1	0.883	27.122
500	6.935	6.888	34.907	134.3	0.967	27.361
600	6.343	6.288	34.896	144.6	1.043	27.433

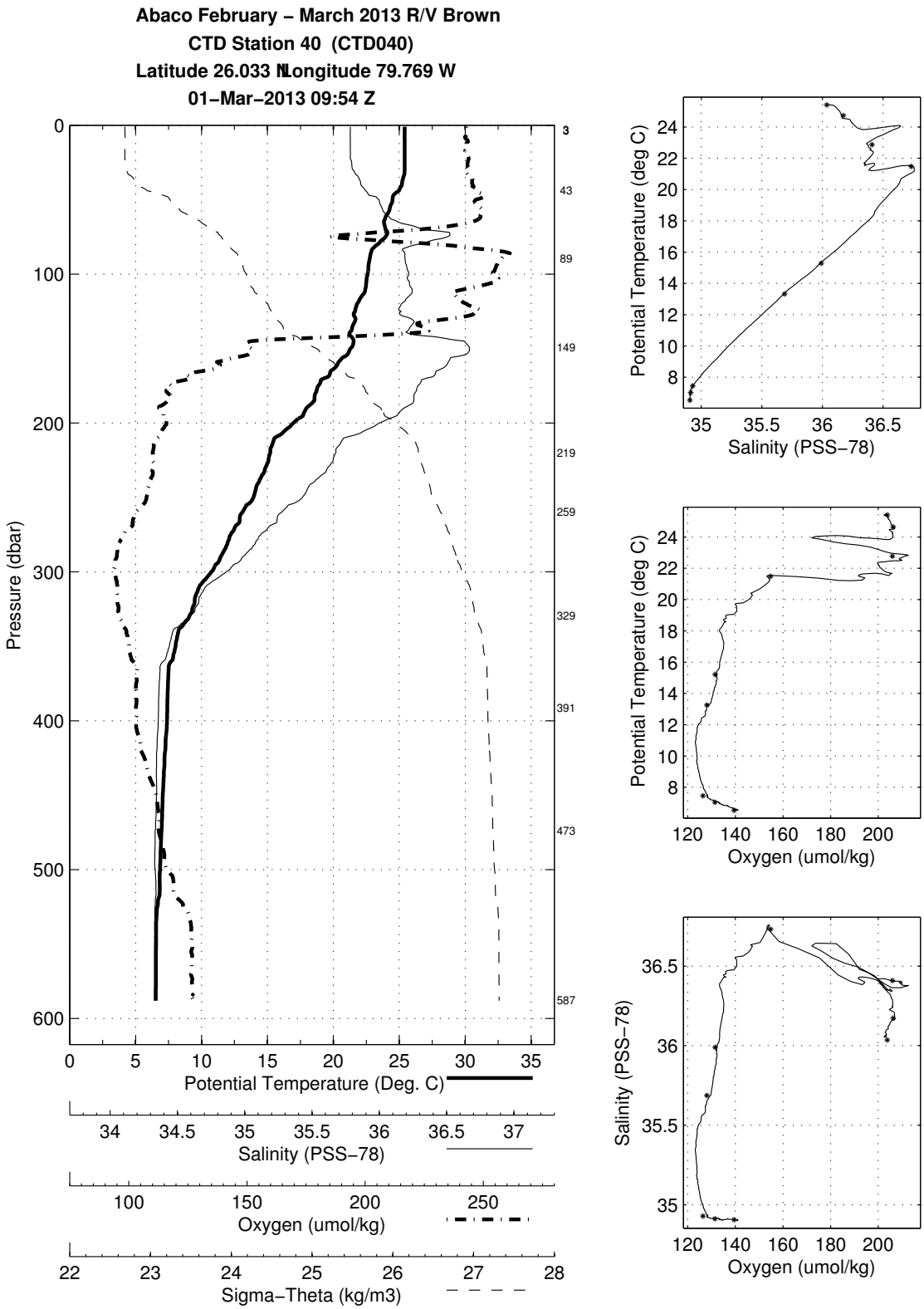
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
694	1	6.049	5.987	34.901	149.3
590	2	6.348	6.295	34.898	142.9
490	3	7.033	6.986	34.910	130.9
412	4	9.183	9.137	35.125	115.2
335	5	14.480	14.430	35.866	130.4
264	6	16.651	16.607	36.242	151.3
180	7	19.053	19.021	36.593	158.9
117	8	22.265	22.241	36.405	206.6
74	9	24.529	24.513	36.675	170.7
39	10	25.754	25.777	−999.000	NaN
39	11	25.755	25.746	35.966	203.0
3	12	25.743	25.742	35.961	201.6


Abaco February – March 2013 R/V Brown
CTD Station 39 (CTD039)
Latitude 26.036 N Longitude 79.674 W
01–Mar–2013 07:58 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 40 (CTD040)
Latitude 26.033N Longitude 79.769W
01-Mar-2013 09:54Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.410	25.410	36.056	202.8	0.004	24.014
10	25.409	25.407	36.056	203.1	0.039	24.015
20	25.419	25.414	36.057	203.1	0.078	24.013
30	25.416	25.409	36.072	203.5	0.117	24.026
50	24.499	24.489	36.224	204.9	0.192	24.422
75	23.965	23.949	36.627	172.1	0.274	24.889
100	22.616	22.596	36.400	209.0	0.348	25.112
125	21.675	21.651	36.355	205.0	0.418	25.346
150	21.328	21.299	36.758	154.4	0.481	25.750
200	16.995	16.962	36.227	135.0	0.578	26.465
250	13.970	13.934	35.774	130.5	0.649	26.800
300	10.784	10.748	35.325	123.3	0.708	27.074
400	7.421	7.382	34.925	128.2	0.797	27.306
500	6.908	6.860	34.907	135.2	0.877	27.365

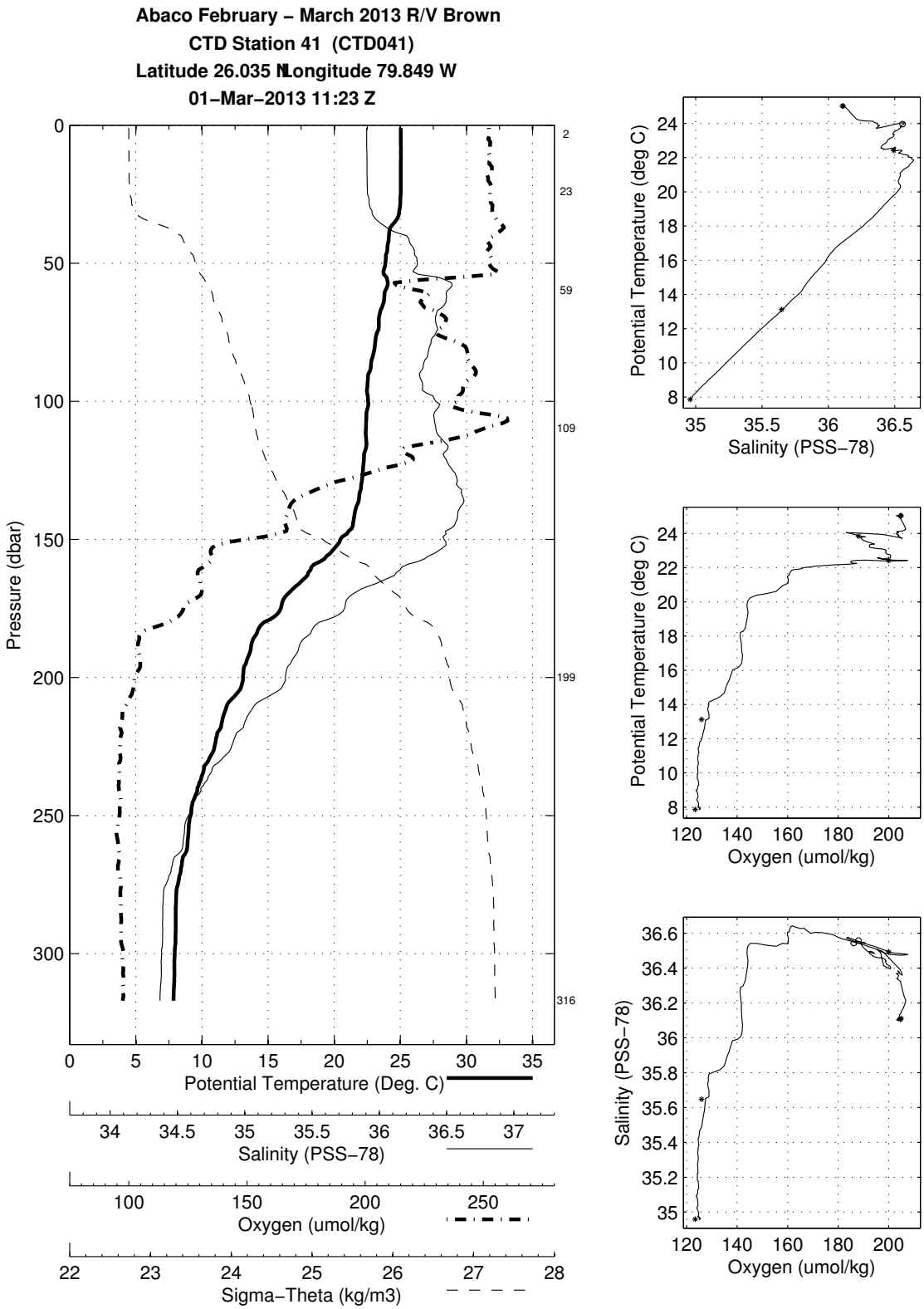
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
588	1	6.581	6.527	34.906	139.4
474	2	7.064	7.019	34.913	131.4
391	3	7.481	7.443	34.929	126.4
329	4	9.246	9.712	−999.000	NaN
260	5	13.362	13.325	35.687	128.0
220	6	15.323	15.289	35.990	131.5
149	7	21.508	21.479	36.732	154.8
89	8	22.893	22.875	36.409	206.0
44	9	24.743	24.734	36.173	206.3
3	10	25.411	25.411	36.036	203.8
3	11	25.409	25.411	−999.000	NaN


Abaco February – March 2013 R/V Brown
CTD Station 40 (CTD040)
Latitude 26.033 N Longitude 79.769 W
01–Mar–2013 09:54 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 41 (CTD041)
Latitude 26.035N Longitude 79.849W
01-Mar-2013 11:23Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.040	25.040	36.103	203.5	0.004	24.163
10	25.043	25.040	36.104	203.5	0.037	24.164
20	25.041	25.036	36.106	203.3	0.075	24.166
30	24.974	24.967	36.123	204.2	0.112	24.200
50	23.880	23.869	36.384	203.6	0.181	24.729
75	23.256	23.241	36.488	192.3	0.258	24.993
100	22.579	22.559	36.486	196.9	0.331	25.188
125	22.201	22.176	36.580	179.6	0.399	25.369
150	20.498	20.470	36.532	151.3	0.462	25.805
200	13.128	13.100	35.653	127.6	0.541	26.879
250	9.179	9.152	35.118	124.4	0.593	27.186
300	7.972	7.942	34.967	125.1	0.637	27.257

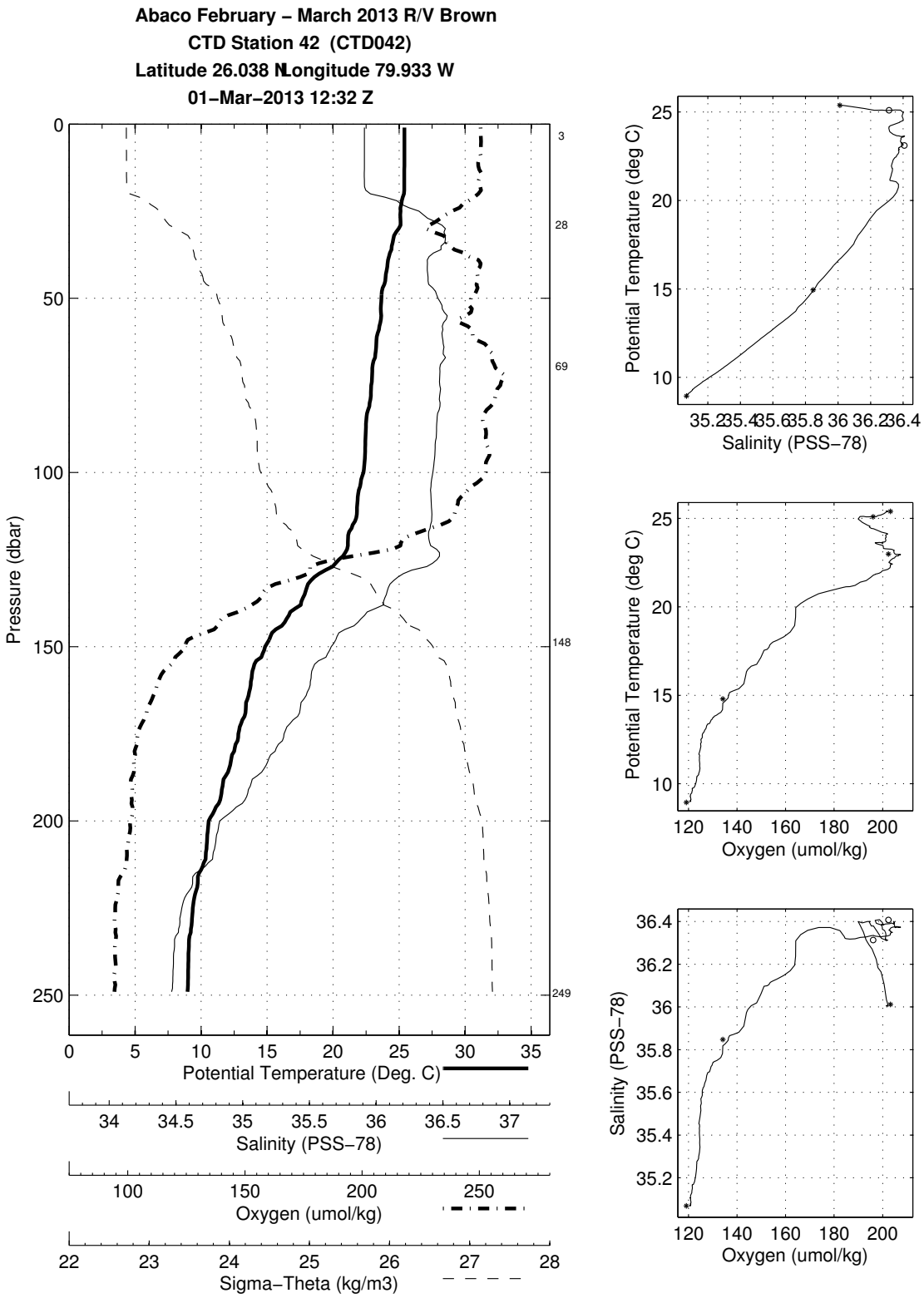
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
317	1	7.891	7.859	34.959	123.4
200	2	13.146	13.118	35.648	125.9
110	3	22.436	22.414	36.494	200.0
60	4	23.970	23.958	36.558	188.0
24	5	25.020	25.015	36.112	204.9
3	6	25.022	25.022	36.106	204.7


Abaco February – March 2013 R/V Brown
CTD Station 41 (CTD041)
Latitude 26.035 N Longitude 79.849 W
01–Mar–2013 11:23 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)
Potential Temperature (deg C)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 42 (CTD042)
Latitude 26.038N Longitude 79.933W
01-Mar-2013 12:32Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.399	25.399	36.005	202.0	0.004	23.979
10	25.400	25.398	36.006	201.7	0.039	23.980
20	25.374	25.370	36.034	201.5	0.078	24.010
30	24.977	24.970	36.400	189.9	0.115	24.409
50	23.673	23.663	36.364	199.9	0.182	24.774
75	22.896	22.881	36.373	206.5	0.258	25.010
100	22.318	22.298	36.339	203.2	0.331	25.151
125	20.466	20.442	36.359	169.2	0.397	25.681
150	14.873	14.850	35.843	136.3	0.442	26.656
200	10.602	10.577	35.300	124.2	0.502	27.086

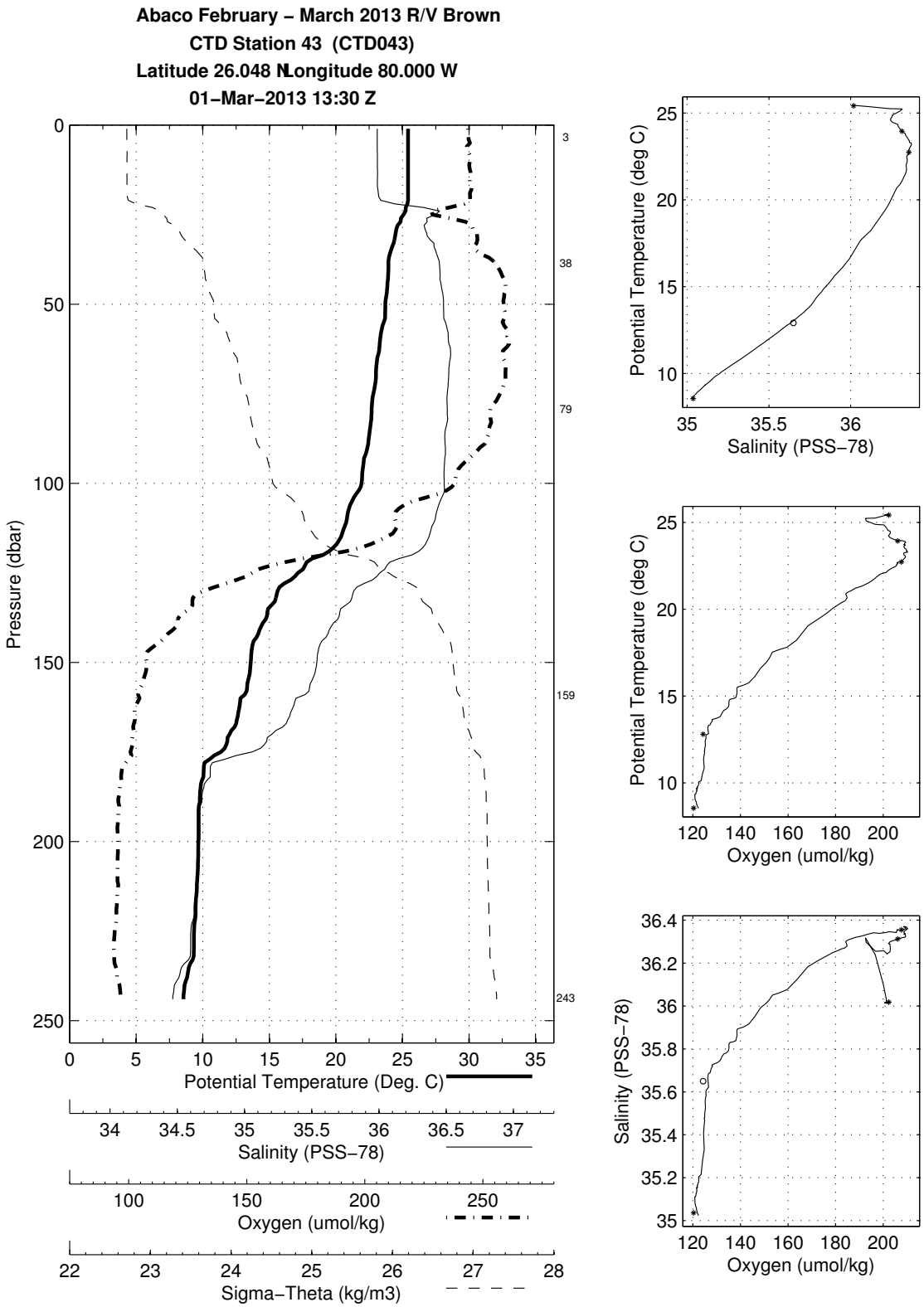
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
249	1	8.970	8.942	35.069	119.1
149	2	14.968	14.946	35.848	134.2
69	3	23.122	23.108	36.407	202.4
29	4	25.110	25.104	36.313	196.1
3	5	25.378	25.377	36.012	203.2


Abaco February – March 2013 R/V Brown
CTD Station 42 (CTD042)
Latitude 26.038 N Longitude 79.933 W
01–Mar–2013 12:32 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 43 (CTD043)
Latitude 26.048N Longitude 80.000W
01-Mar-2013 13:30Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.423	25.422	36.015	200.9	0.004	23.979
10	25.423	25.420	36.015	201.3	0.039	23.980
20	25.431	25.426	36.022	201.3	0.078	23.983
30	24.502	24.495	36.253	202.8	0.115	24.442
50	23.727	23.716	36.336	208.9	0.181	24.737
75	22.827	22.812	36.355	208.1	0.258	25.016
100	21.951	21.931	36.339	197.9	0.330	25.255
125	17.180	17.159	36.028	152.1	0.389	26.265
150	13.627	13.606	35.722	128.2	0.424	26.828
200	9.692	9.669	35.153	121.7	0.478	27.128

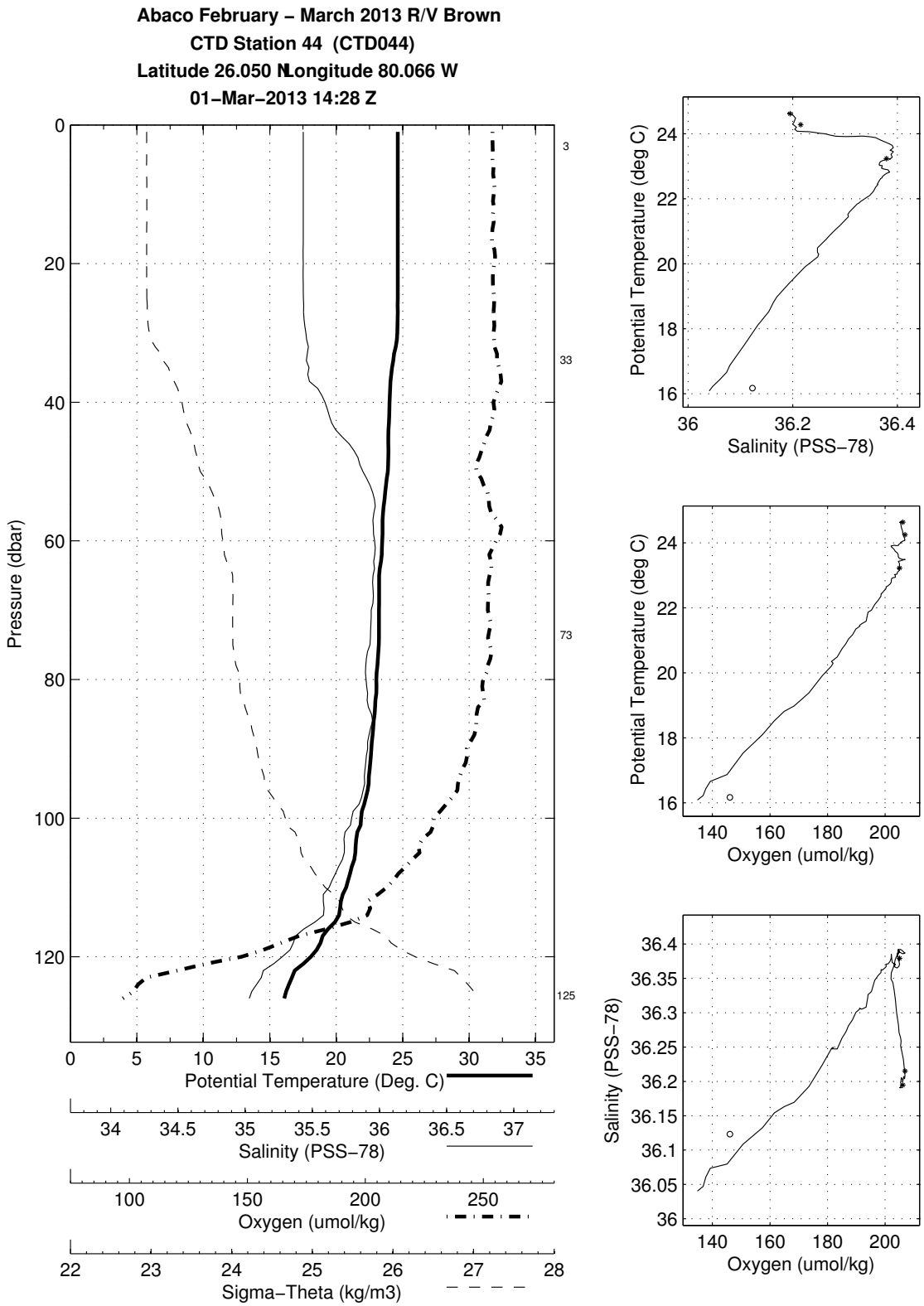
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
244	1	8.584	8.558	35.037	120.3
159	2	12.935	12.914	35.649	124.3
79	3	22.760	22.744	36.355	207.7
39	4	23.956	23.948	36.313	206.1
3	5	25.413	25.412	36.018	202.4


Abaco February – March 2013 R/V Brown
CTD Station 43 (CTD043)
Latitude 26.048 N Longitude 80.000 W
01–Mar–2013 13:30 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 44 (CTD044)
Latitude 26.050N Longitude 80.066W
01-Mar-2013 14:28Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.635	24.635	36.191	205.2	0.004	24.353
10	24.633	24.631	36.191	205.5	0.036	24.354
20	24.636	24.632	36.191	205.6	0.071	24.354
30	24.601	24.595	36.199	205.4	0.107	24.371
50	23.891	23.880	36.358	202.2	0.175	24.706
75	23.222	23.206	36.377	204.7	0.252	24.919
100	21.886	21.866	36.326	194.0	0.325	25.264
125	16.247	16.227	36.047	136.8	0.382	26.501

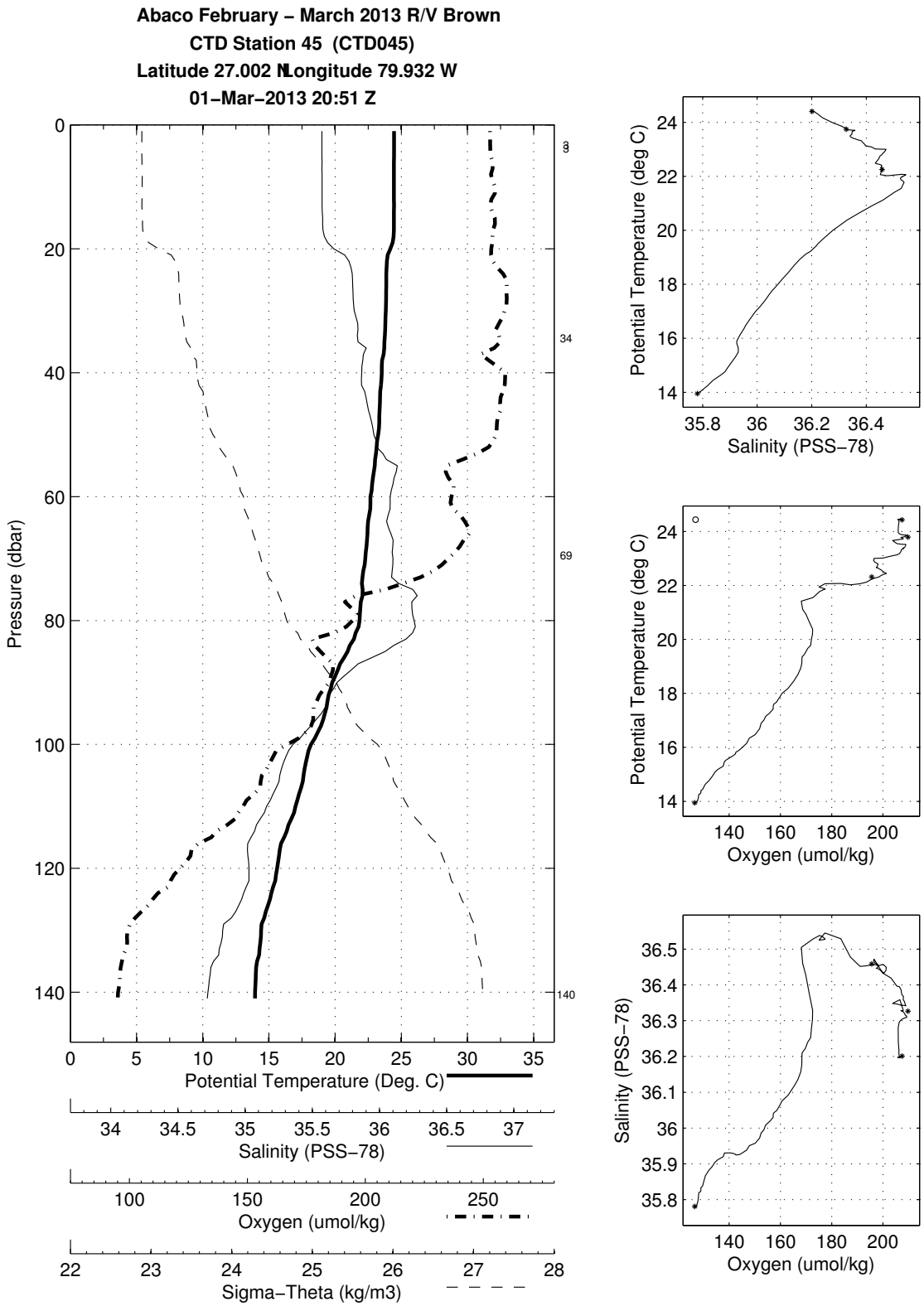
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
126	1	16.195	16.174	36.123	146.1
74	2	23.247	23.232	36.379	205.0
34	3	24.283	24.276	36.215	206.9
3	4	24.618	24.618	36.195	206.1


Abaco February – March 2013 R/V Brown
CTD Station 44 (CTD044)
Latitude 26.050 N Longitude 80.066 W
01–Mar–2013 14:28 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 45 (CTD045)
Latitude 27.002N Longitude 79.932W
01-Mar-2013 20:51Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	24.447	24.447	36.197	205.7	0.004	24.414
10	24.444	24.442	36.198	206.8	0.035	24.416
20	24.173	24.169	36.240	206.0	0.070	24.530
30	23.834	23.828	36.315	208.8	0.103	24.688
50	23.265	23.255	36.387	207.0	0.166	24.912
75	22.092	22.077	36.529	183.5	0.237	25.358
100	18.197	18.180	36.091	162.9	0.295	26.063
125	15.094	15.075	35.904	134.4	0.337	26.652

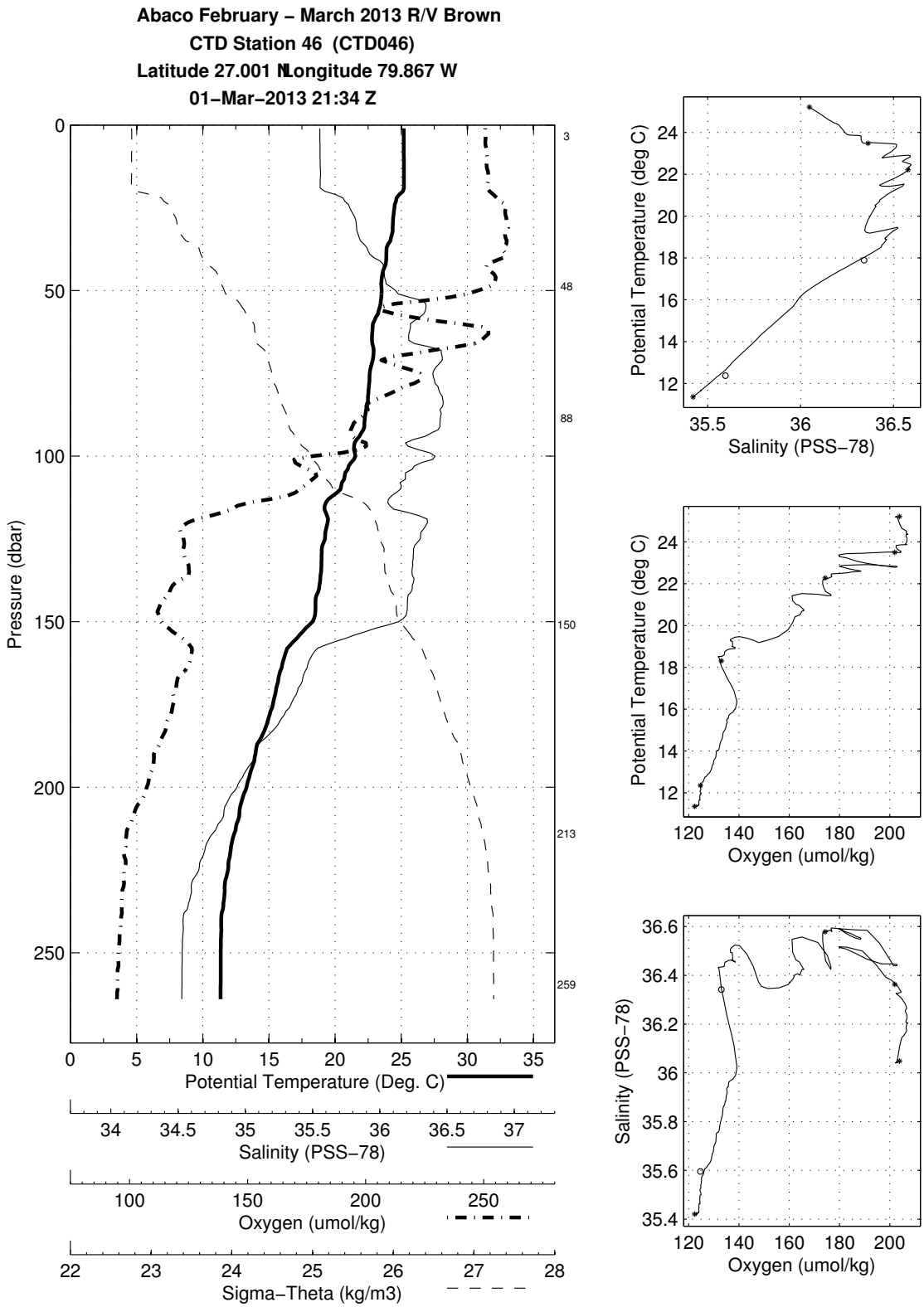
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
140	1	13.971	13.951	35.781	126.6
70	2	22.270	22.256	36.458	195.6
34	3	23.751	23.744	36.327	209.7
4	4	24.415	24.418	−999.000	NaN
3	5	24.411	24.410	36.201	207.5


Abaco February – March 2013 R/V Brown
CTD Station 45 (CTD045)
Latitude 27.002 N Longitude 79.932 W
01–Mar–2013 20:51 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 46 (CTD046)
Latitude 27.001N Longitude 79.867W
01-Mar-2013 21:34Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.193	25.192	36.041	202.3	0.004	24.069
10	25.200	25.198	36.041	202.7	0.038	24.068
20	25.137	25.132	36.062	203.2	0.077	24.104
30	24.377	24.370	36.204	207.2	0.112	24.442
50	23.530	23.520	36.380	200.7	0.178	24.829
75	22.629	22.614	36.547	188.2	0.251	25.219
100	21.549	21.529	36.557	165.0	0.317	25.534
125	19.263	19.240	36.491	137.3	0.371	26.100
150	18.321	18.295	36.394	132.4	0.418	26.266
200	13.340	13.312	35.669	129.4	0.492	26.848
250	11.392	11.360	35.422	123.3	0.548	27.038

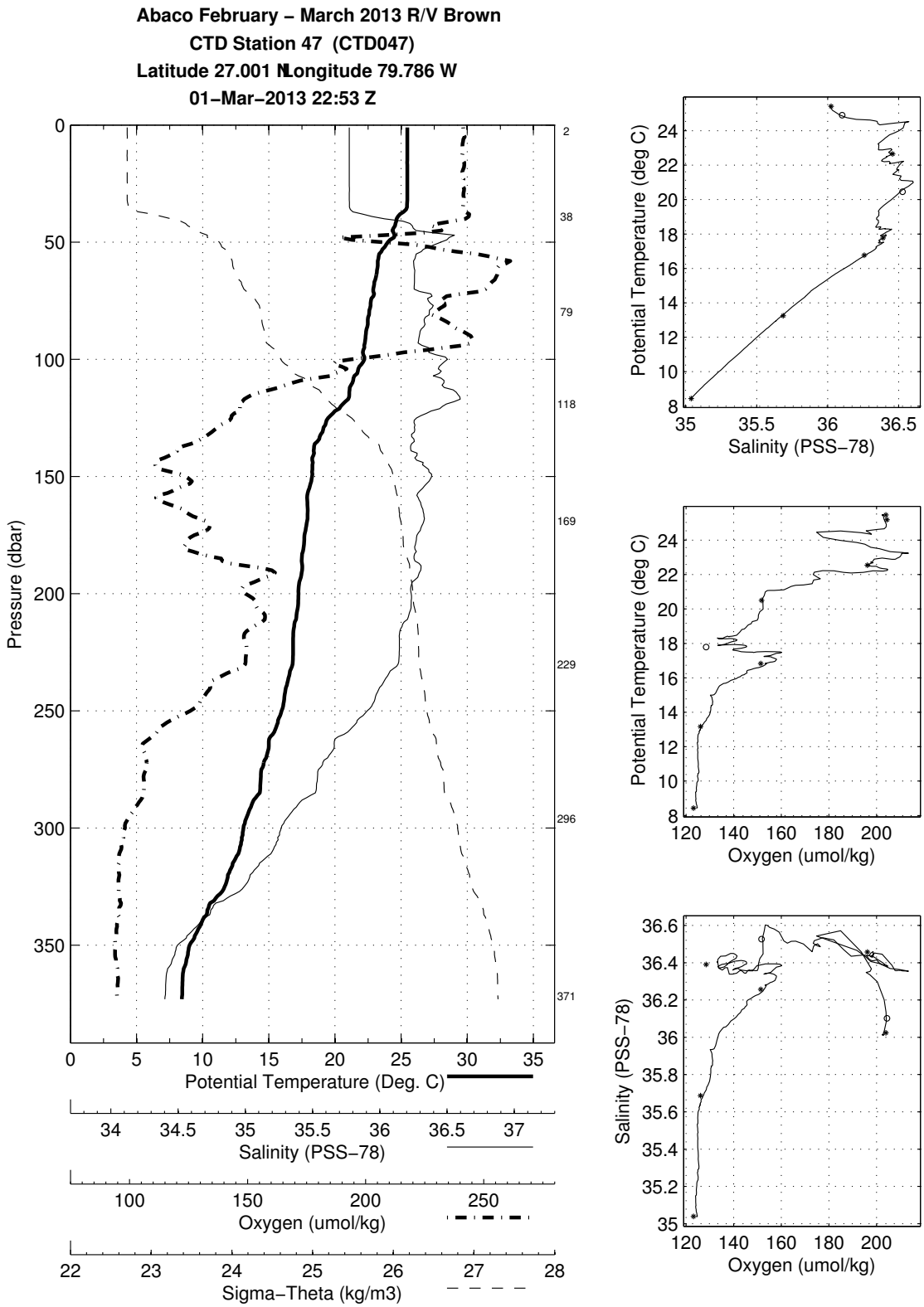
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
260	1	11.384	11.351	35.421	122.4
214	2	12.401	12.372	35.596	124.6
151	3	17.921	17.895	36.342	133.0
88	4	22.235	22.217	36.578	174.3
49	5	23.491	23.481	36.363	202.0
3	6	25.214	25.213	36.048	203.8


Abaco February – March 2013 R/V Brown
CTD Station 46 (CTD046)
Latitude 27.001 N Longitude 79.867 W
01–Mar–2013 21:34 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 47 (CTD047)
Latitude 27.001N Longitude 79.786W
01-Mar-2013 22:53Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.462	25.462	36.014	202.7	0.004	23.966
10	25.466	25.464	36.014	202.6	0.039	23.965
20	25.467	25.462	36.014	202.5	0.079	23.966
30	25.473	25.466	36.014	202.7	0.118	23.965
50	24.005	23.994	36.499	184.5	0.190	24.778
75	22.731	22.716	36.432	197.5	0.266	25.103
100	22.243	22.223	36.534	177.4	0.336	25.321
125	19.498	19.475	36.370	150.3	0.396	25.946
150	18.294	18.267	36.450	139.9	0.443	26.316
200	17.272	17.238	36.342	153.5	0.527	26.488
250	15.995	15.955	36.108	141.1	0.605	26.611
300	13.125	13.083	35.653	126.3	0.674	26.882

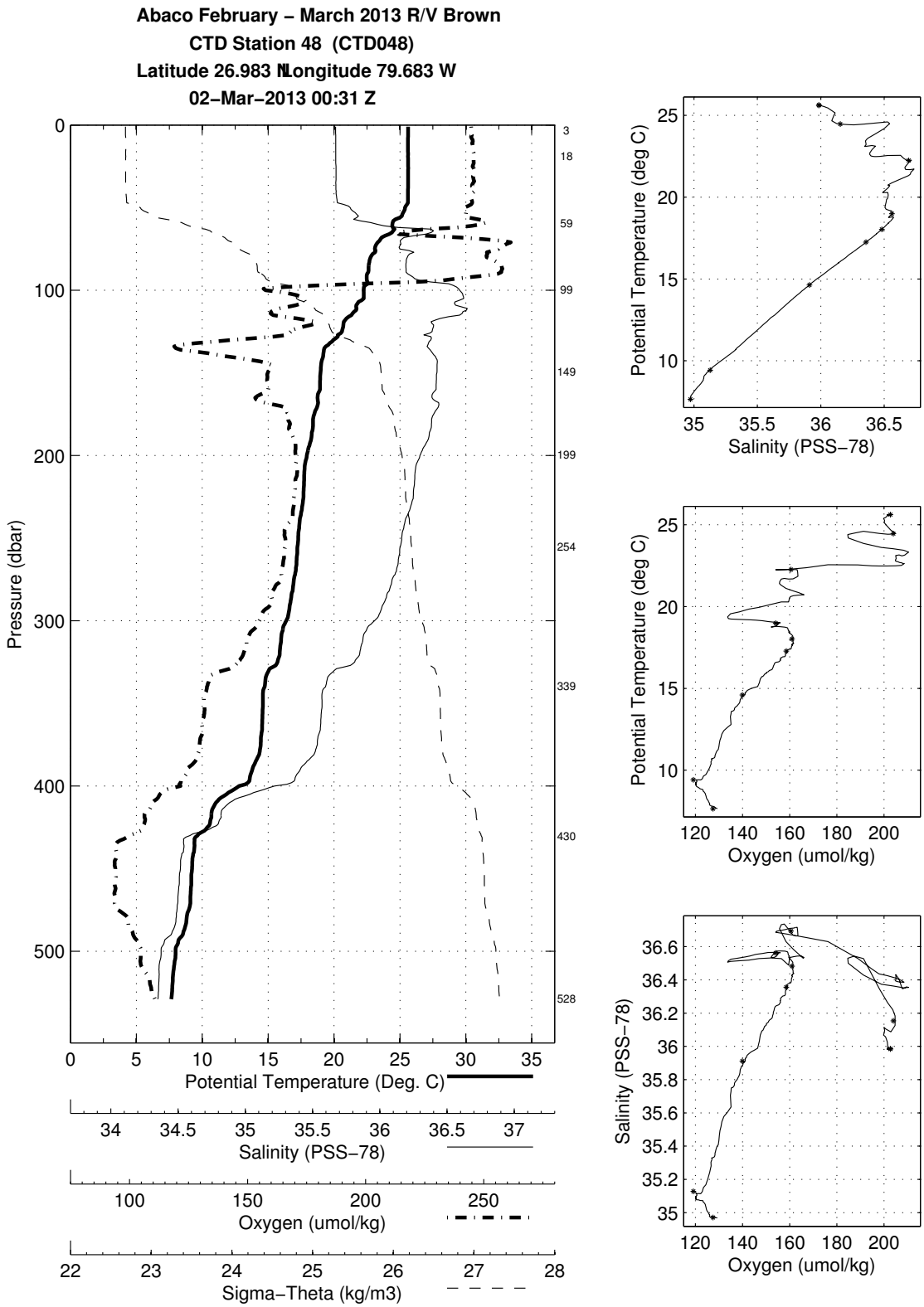
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
372	1	8.475	8.436	35.039	123.2
296	2	13.288	13.246	35.687	126.1
230	3	16.808	16.770	36.257	151.4
169	4	17.795	17.766	36.390	128.5
119	5	20.475	20.452	36.527	151.7
80	6	22.667	22.651	36.457	196.1
39	7	24.911	24.902	36.102	204.4
3	8	25.421	25.421	36.024	203.9


Abaco February – March 2013 R/V Brown
CTD Station 47 (CTD047)
Latitude 27.001 N Longitude 79.786 W
01–Mar–2013 22:53 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 48 (CTD048)
Latitude 26.983N Longitude 79.683W
02-Mar-2013 00:31Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.619	25.619	35.984	201.4	0.004	23.895
10	25.612	25.610	35.984	201.8	0.040	23.898
20	25.618	25.613	35.984	202.0	0.080	23.897
30	25.626	25.619	35.986	202.0	0.120	23.896
50	25.398	25.387	36.067	199.8	0.200	24.029
75	23.111	23.095	36.351	207.6	0.286	24.931
100	22.266	22.246	36.692	154.5	0.357	25.435
125	20.620	20.596	36.535	160.2	0.417	25.773
150	19.001	18.974	36.562	155.0	0.466	26.223
200	17.969	17.934	36.466	161.4	0.554	26.412
250	17.323	17.281	36.362	159.0	0.637	26.492
300	16.416	16.367	36.206	153.1	0.716	26.590
400	12.848	12.793	35.635	135.1	0.857	26.927
500	8.033	7.981	34.986	126.1	0.958	27.266

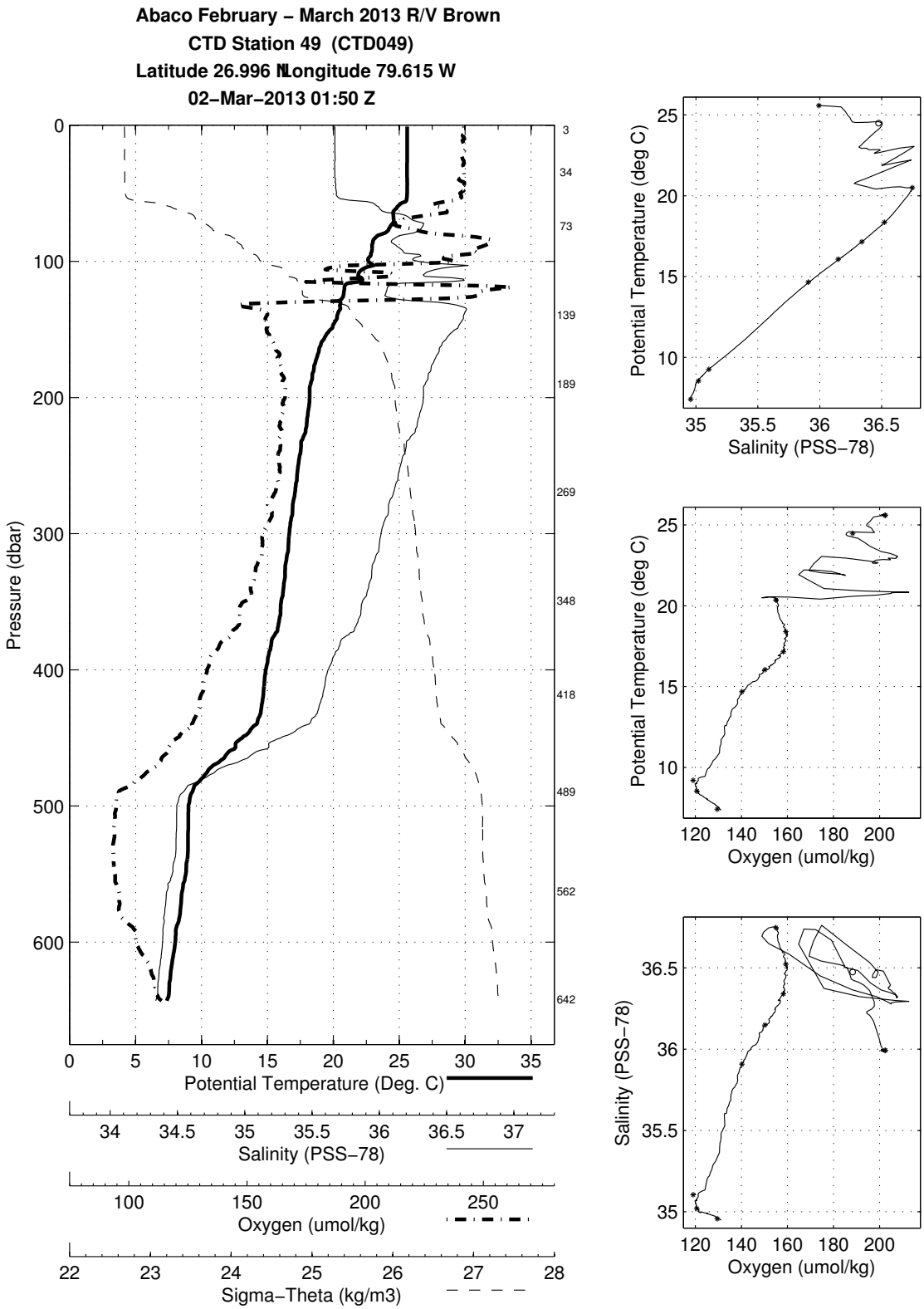
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
529	1	7.702	7.648	34.971	127.5
430	2	9.474	9.425	35.128	119.1
339	3	14.685	14.633	35.911	140.0
255	4	17.296	17.253	36.356	158.6
200	5	18.063	18.028	36.482	161.0
149	6	19.018	18.991	36.562	154.1
99	7	22.257	22.237	36.694	160.6
59	8	24.475	24.462	36.153	204.0
19	9	25.619	25.614	35.986	202.7
3	10	25.618	25.617	35.985	202.7


Abaco February – March 2013 R/V Brown
CTD Station 48 (CTD048)
Latitude 26.983 N Longitude 79.683 W
02–Mar–2013 00:31 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 49 (CTD049)
Latitude 26.996N Longitude 79.615W
02-Mar-2013 01:50Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.604	25.604	35.988	201.6	0.004	23.903
10	25.603	25.600	35.988	201.8	0.040	23.904
20	25.605	25.601	35.989	201.4	0.080	23.904
30	25.600	25.594	35.987	201.5	0.120	23.905
50	25.612	25.600	35.998	200.7	0.200	23.911
75	24.295	24.279	36.494	187.6	0.290	24.690
100	22.679	22.659	36.473	199.4	0.366	25.150
125	20.783	20.759	36.278	205.0	0.430	25.533
150	19.811	19.783	36.687	155.6	0.483	26.107
200	18.237	18.202	36.502	160.0	0.572	26.373
250	17.373	17.331	36.369	158.7	0.656	26.486
300	16.706	16.657	36.257	154.8	0.736	26.561
400	14.937	14.876	35.949	141.8	0.888	26.731
500	9.067	9.011	35.071	120.6	1.013	27.172
600	8.072	8.010	34.988	125.2	1.110	27.263

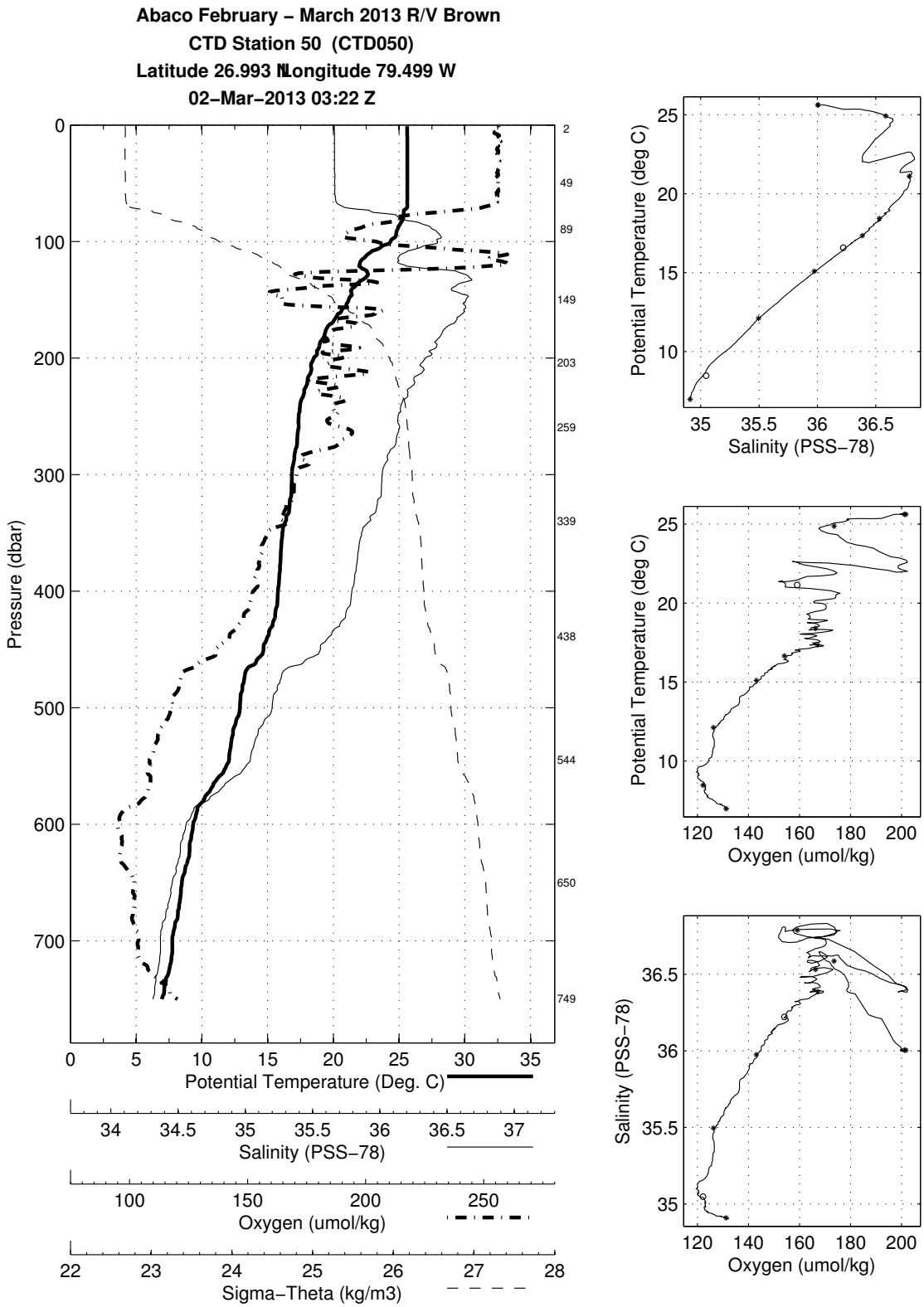
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
642	1	7.473	7.409	34.958	129.5
562	2	8.609	8.548	35.021	120.6
490	3	9.310	9.255	35.105	119.0
418	4	14.720	14.656	35.908	140.2
349	5	16.128	16.072	36.149	150.2
269	6	17.196	17.150	36.340	158.2
190	7	18.395	18.362	36.522	159.3
139	8	20.523	20.497	36.747	155.0
74	9	24.509	24.493	36.474	188.3
34	10	25.594	25.586	35.993	202.5
3	11	25.579	25.578	35.992	202.4


Abaco February – March 2013 R/V Brown
CTD Station 49 (CTD049)
Latitude 26.996 N Longitude 79.615 W
02–Mar–2013 01:50 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 50 (CTD050)
Latitude 26.993N Longitude 79.499W
02-Mar-2013 03:22Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.620	25.620	36.000	200.4	0.004	23.907
10	25.624	25.622	36.001	200.3	0.040	23.907
20	25.635	25.630	36.001	200.2	0.080	23.904
30	25.634	25.627	36.002	200.3	0.120	23.905
50	25.633	25.622	36.003	200.3	0.200	23.908
75	25.367	25.351	36.236	187.1	0.300	24.168
100	24.366	24.345	36.625	174.5	0.386	24.769
125	22.562	22.537	36.730	171.1	0.458	25.380
150	21.187	21.158	36.796	154.5	0.518	25.819
200	18.542	18.507	36.551	167.2	0.615	26.334
250	17.403	17.361	36.385	165.4	0.699	26.491
300	16.897	16.847	36.290	157.5	0.780	26.541
400	15.846	15.782	36.106	148.4	0.935	26.649
500	12.967	12.897	35.624	131.0	1.076	26.897
600	9.403	9.334	35.104	119.9	1.194	27.145
700	7.824	7.752	34.948	124.0	1.292	27.270

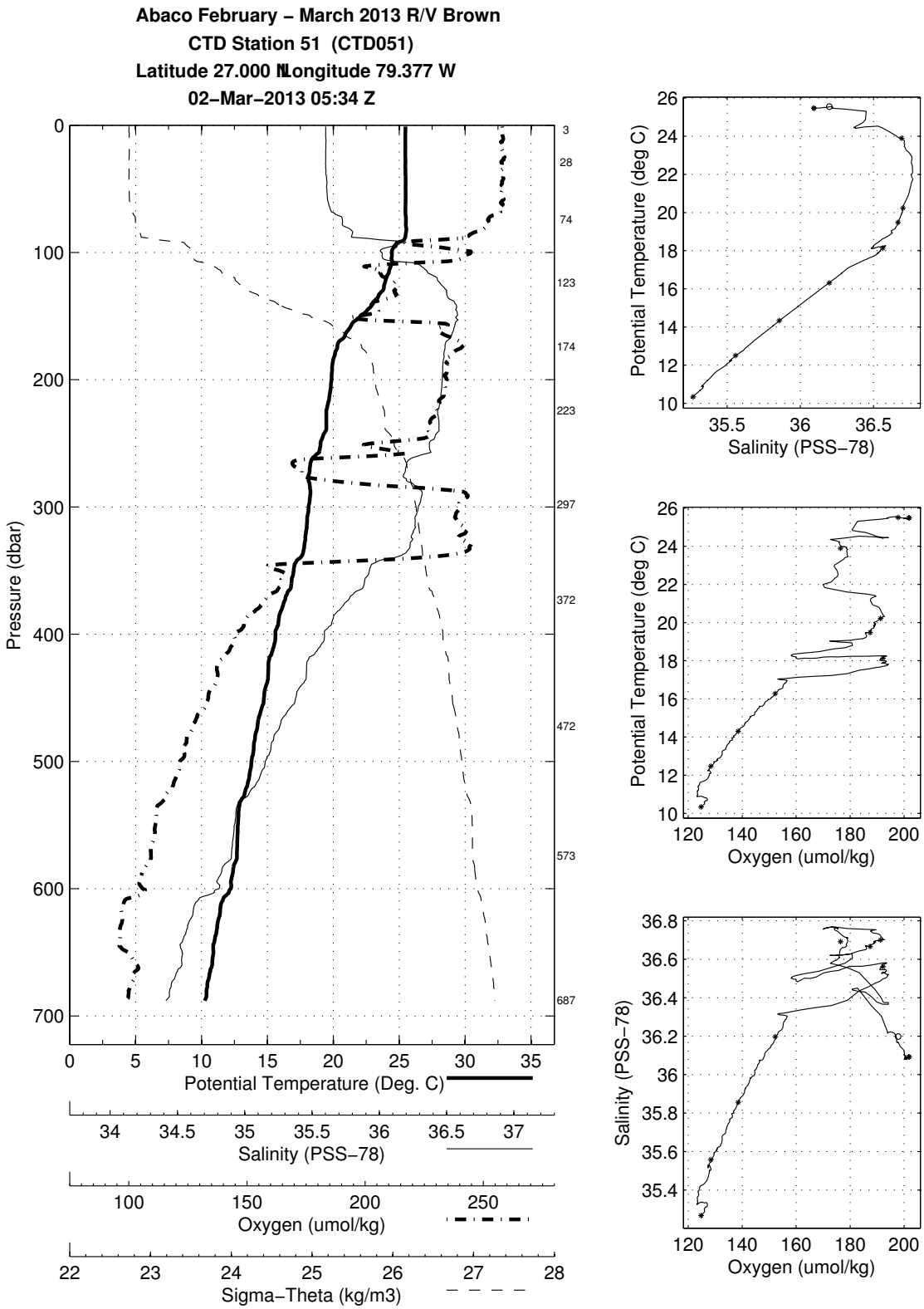
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
750	1	7.044	6.970	34.909	131.2
650	2	8.541	8.470	35.048	122.2
545	3	12.182	12.109	35.496	126.3
438	4	15.156	15.088	35.974	143.1
339	5	16.631	16.575	36.222	154.1
259	6	17.384	17.340	36.386	167.1
204	7	18.466	18.430	36.531	166.3
150	8	21.134	21.105	36.789	159.1
89	9	24.944	24.924	36.586	173.5
49	10	25.639	25.628	36.005	201.1
3	11	25.616	25.615	36.004	201.7


Abaco February – March 2013 R/V Brown
CTD Station 50 (CTD050)
Latitude 26.993 N Longitude 79.499 W
02–Mar–2013 03:22 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 51 (CTD051)
Latitude 27.000N Longitude 79.377W
02-Mar-2013 05:34Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.475	25.474	36.082	200.5	0.004	24.013
10	25.472	25.470	36.083	200.8	0.039	24.015
20	25.471	25.467	36.082	200.6	0.078	24.016
30	25.477	25.470	36.081	200.5	0.117	24.014
50	25.495	25.484	36.088	200.9	0.195	24.015
75	25.527	25.510	36.169	197.8	0.292	24.068
100	24.471	24.449	36.374	194.2	0.385	24.547
125	23.912	23.886	36.679	178.6	0.466	24.947
150	22.080	22.050	36.764	171.2	0.536	25.545
200	19.903	19.866	36.687	189.3	0.642	26.085
250	19.074	19.029	36.620	174.1	0.739	26.252
300	18.182	18.130	36.562	191.8	0.827	26.437
400	15.677	15.614	36.075	146.4	0.988	26.664
500	13.862	13.789	35.767	135.4	1.132	26.825
600	12.314	12.232	35.527	128.0	1.262	26.954

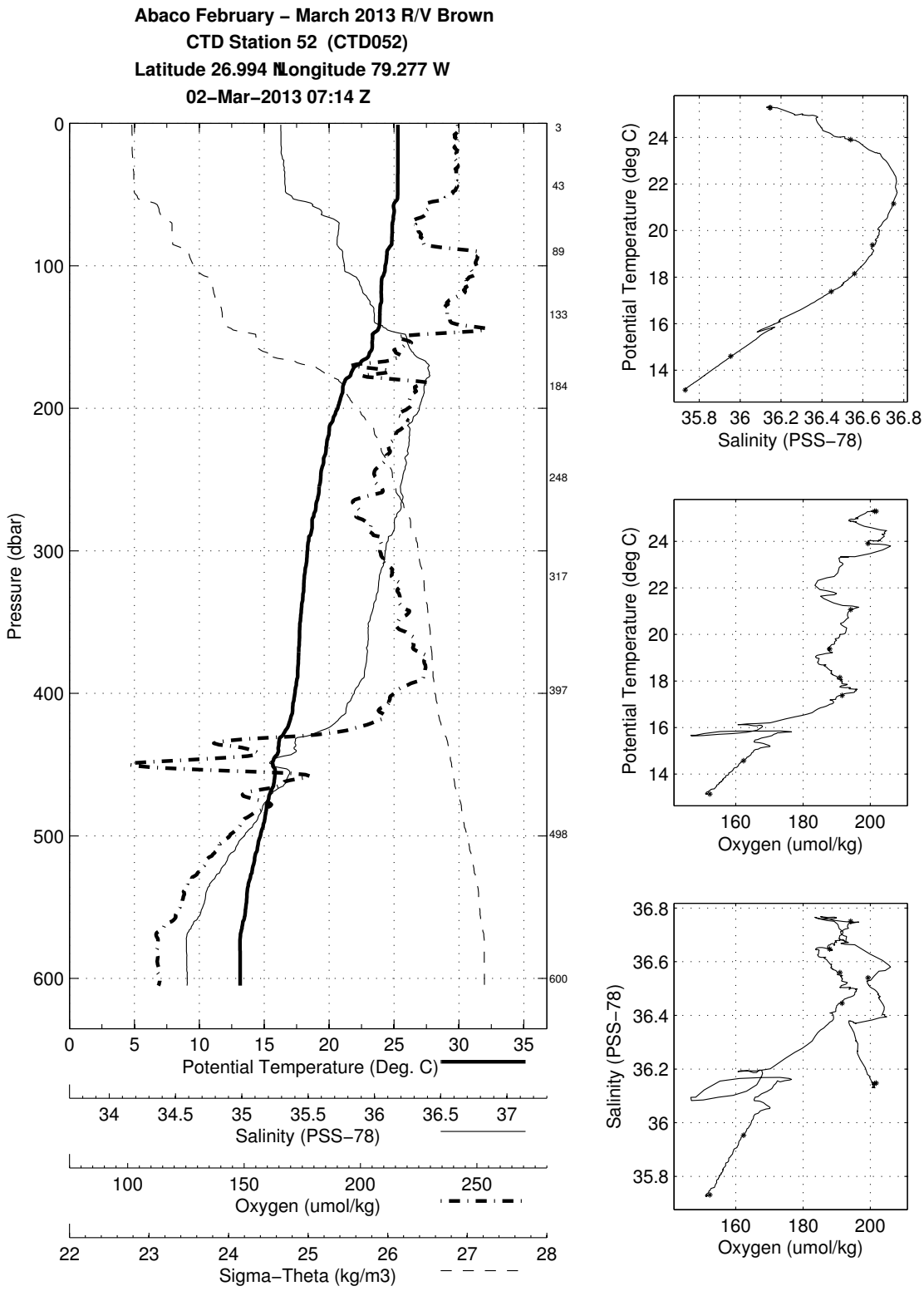
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
688	1	10.432	10.348	35.268	124.8
574	2	12.584	12.506	35.557	128.3
472	3	14.411	14.340	35.856	138.5
373	4	16.378	16.317	36.197	152.3
298	5	18.190	18.138	36.562	192.2
224	6	19.526	19.485	36.666	187.4
174	7	20.268	20.235	36.700	191.3
124	8	23.918	23.892	36.691	176.4
74	9	25.568	25.552	36.198	197.8
29	10	25.480	25.473	36.093	201.7
3	11	25.455	25.455	36.092	201.9


Abaco February – March 2013 R/V Brown
CTD Station 51 (CTD051)
Latitude 27.000 N Longitude 79.377 W
02–Mar–2013 05:34 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 52 (CTD052)
Latitude 26.994N Longitude 79.277W
02-Mar-2013 07:14Z

Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.300	25.300	36.130	201.2	0.004	24.104
10	25.300	25.297	36.131	200.7	0.038	24.105
20	25.297	25.293	36.132	201.1	0.076	24.107
30	25.303	25.296	36.143	201.2	0.114	24.114
50	25.292	25.281	36.166	199.9	0.190	24.136
75	24.876	24.859	36.377	194.6	0.281	24.425
100	24.341	24.319	36.403	204.3	0.367	24.608
125	24.060	24.034	36.512	199.6	0.449	24.777
150	23.378	23.347	36.668	191.2	0.527	25.098
200	20.699	20.661	36.723	192.9	0.652	25.899
250	19.387	19.341	36.649	187.7	0.752	26.194
300	18.378	18.325	36.577	188.3	0.843	26.399
400	17.440	17.372	36.444	190.6	1.011	26.534
500	14.786	14.710	35.975	163.3	1.163	26.788
600	13.238	13.152	35.730	151.5	1.296	26.928

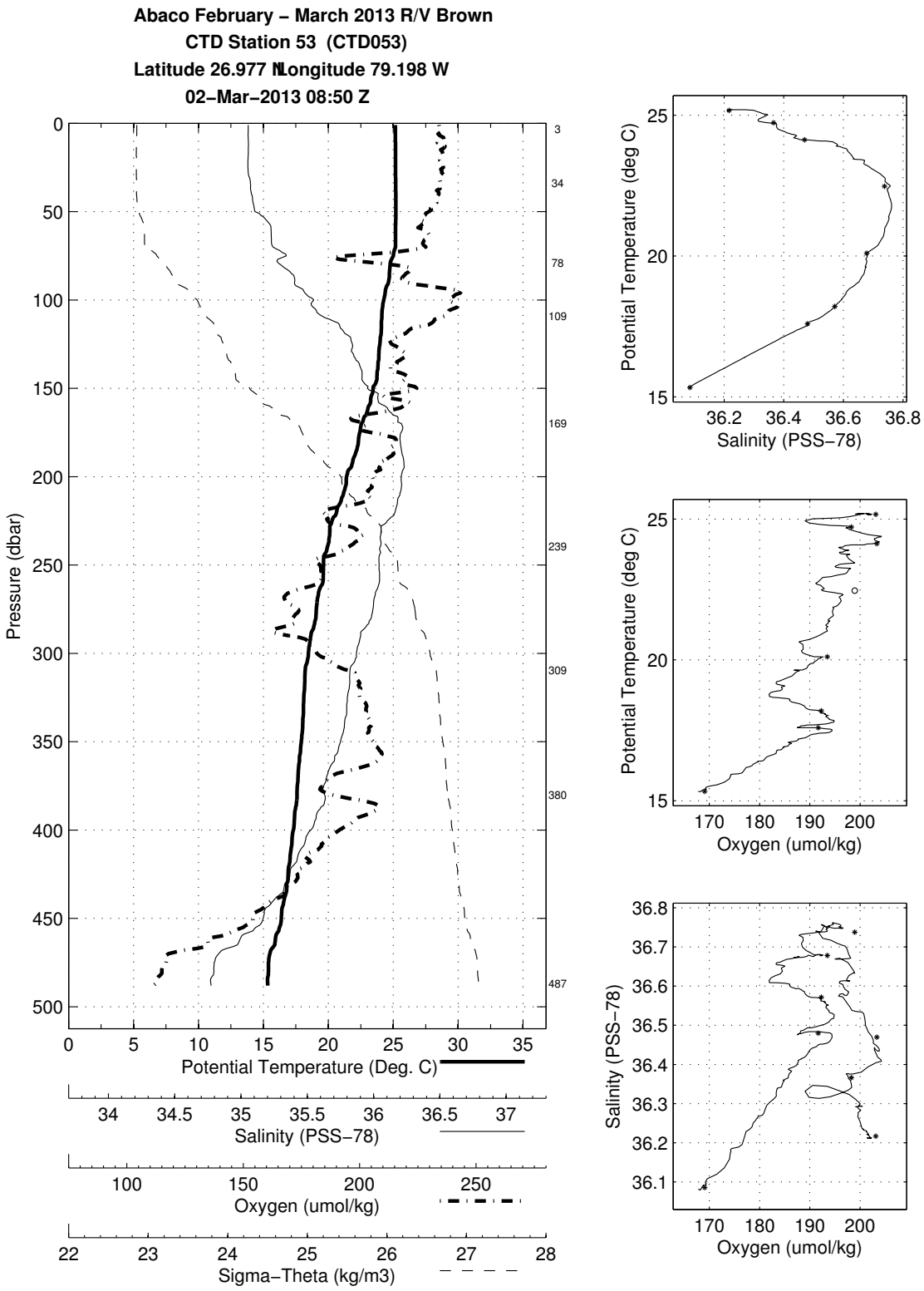
Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
600	1	13.239	13.154	35.731	152.3
499	2	14.680	14.604	35.953	162.3
398	3	17.444	17.377	36.445	191.6
318	4	18.206	18.150	36.559	191.0
248	5	19.425	19.379	36.647	187.9
184	6	21.194	21.158	36.751	194.1
134	7	23.932	23.903	36.540	199.3
90	8	24.569	24.628	−999.000	NaN
44	9	25.296	25.286	36.148	201.7
3	10	25.273	25.272	36.146	201.3


Abaco February – March 2013 R/V Brown
CTD Station 52 (CTD052)
Latitude 26.994 N Longitude 79.277 W
02–Mar–2013 07:14 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 53 (CTD053)
Latitude 26.977N Longitude 79.198W
02-Mar-2013 08:50Z

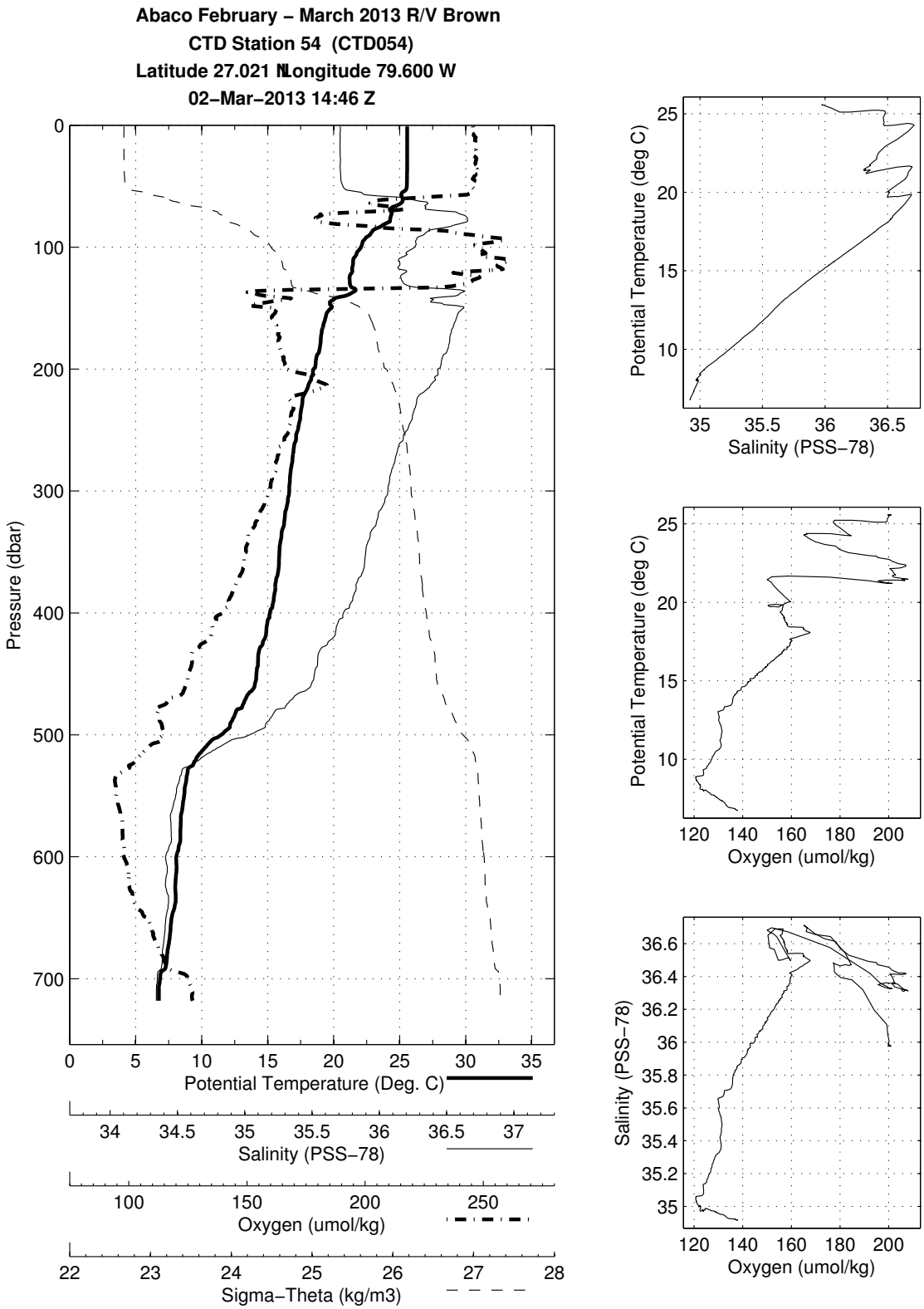
Pressure dbar	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}	DynHt m^2·s^{-2}	SigT kg·m^{-3}
1	25.162	25.162	36.212	201.6	0.004	24.208
10	25.170	25.168	36.213	201.5	0.037	24.206
20	25.177	25.173	36.212	201.7	0.074	24.204
30	25.185	25.178	36.214	202.0	0.111	24.205
50	25.205	25.195	36.236	200.4	0.186	24.216
75	25.026	25.010	36.346	190.6	0.278	24.356
100	24.290	24.268	36.443	202.8	0.364	24.654
125	23.994	23.967	36.579	196.0	0.445	24.847
150	23.479	23.448	36.633	199.0	0.522	25.042
200	21.445	21.406	36.752	193.7	0.654	25.716
250	19.677	19.631	36.674	187.5	0.761	26.137
300	18.522	18.469	36.594	187.2	0.855	26.375
400	17.374	17.306	36.433	189.8	1.023	26.541

Pressure dbar	Niskin	Temp90 °C	PoTemp90 °C	Salinity PSS-78	Oxygen μmol·kg^{-1}
487	1	15.405	15.329	36.085	169.1
380	2	17.655	17.589	36.480	191.7
310	3	18.261	18.206	36.571	192.3
239	4	20.144	20.099	36.678	193.5
170	5	22.508	22.474	36.738	198.9
109	6	24.149	24.125	36.470	203.3
79	7	24.748	24.731	36.366	198.2
34	8	25.186	25.208	−999.000	NaN
3	9	25.171	25.171	36.217	203.1


Abaco February – March 2013 R/V Brown
CTD Station 53 (CTD053)
Latitude 26.977 N Longitude 79.198 W
02–Mar–2013 08:50 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

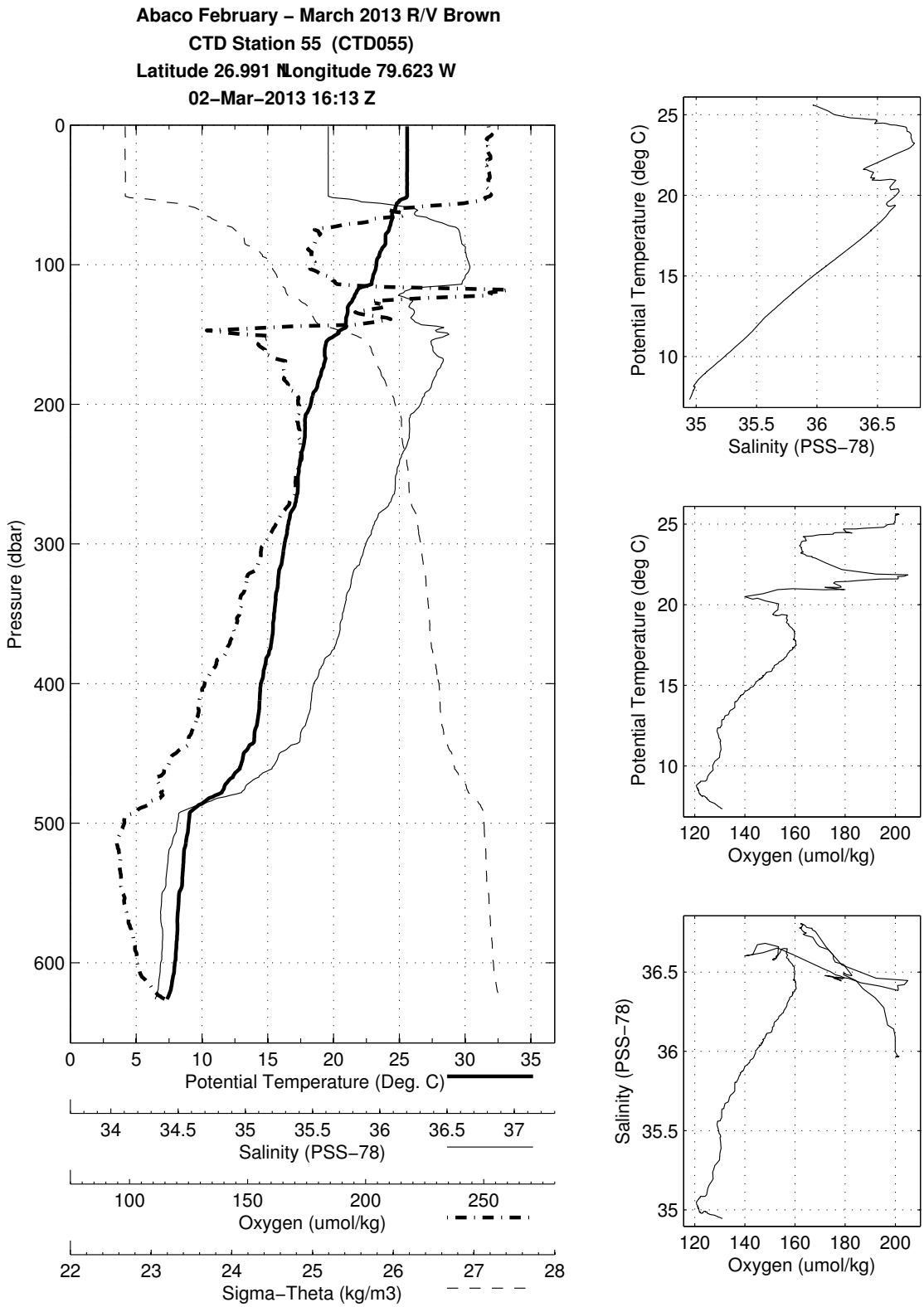
Abaco February - March 2013 R/V Brown
CTD Station 54 (CTD054)
Latitude 27.021N Longitude 79.600W
02-Mar-2013 14:46Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.566	25.565	35.978	200.0	0.004	23.907
10	25.567	25.565	35.977	200.6	0.040	23.906
20	25.567	25.563	35.977	200.6	0.080	23.906
30	25.571	25.565	35.978	200.6	0.120	23.907
50	25.551	25.540	35.993	200.0	0.200	23.926
75	24.330	24.314	36.704	165.7	0.288	24.838
100	22.075	22.055	36.404	201.1	0.361	25.269
125	21.228	21.203	36.327	201.5	0.427	25.449
150	19.854	19.826	36.690	156.5	0.485	26.097
200	18.501	18.466	36.539	158.6	0.577	26.334
250	17.325	17.282	36.363	159.3	0.661	26.493
300	16.680	16.630	36.252	154.8	0.740	26.564
400	15.230	15.168	35.996	144.4	0.892	26.703
500	11.535	11.471	35.455	131.2	1.027	27.043
600	8.142	8.079	34.971	122.6	1.126	27.239
700	6.909	6.841	34.922	136.8	1.215	27.380


Abaco February – March 2013 R/V Brown
CTD Station 54 (CTD054)
Latitude 27.021 N Longitude 79.600 W
02–Mar–2013 14:46 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

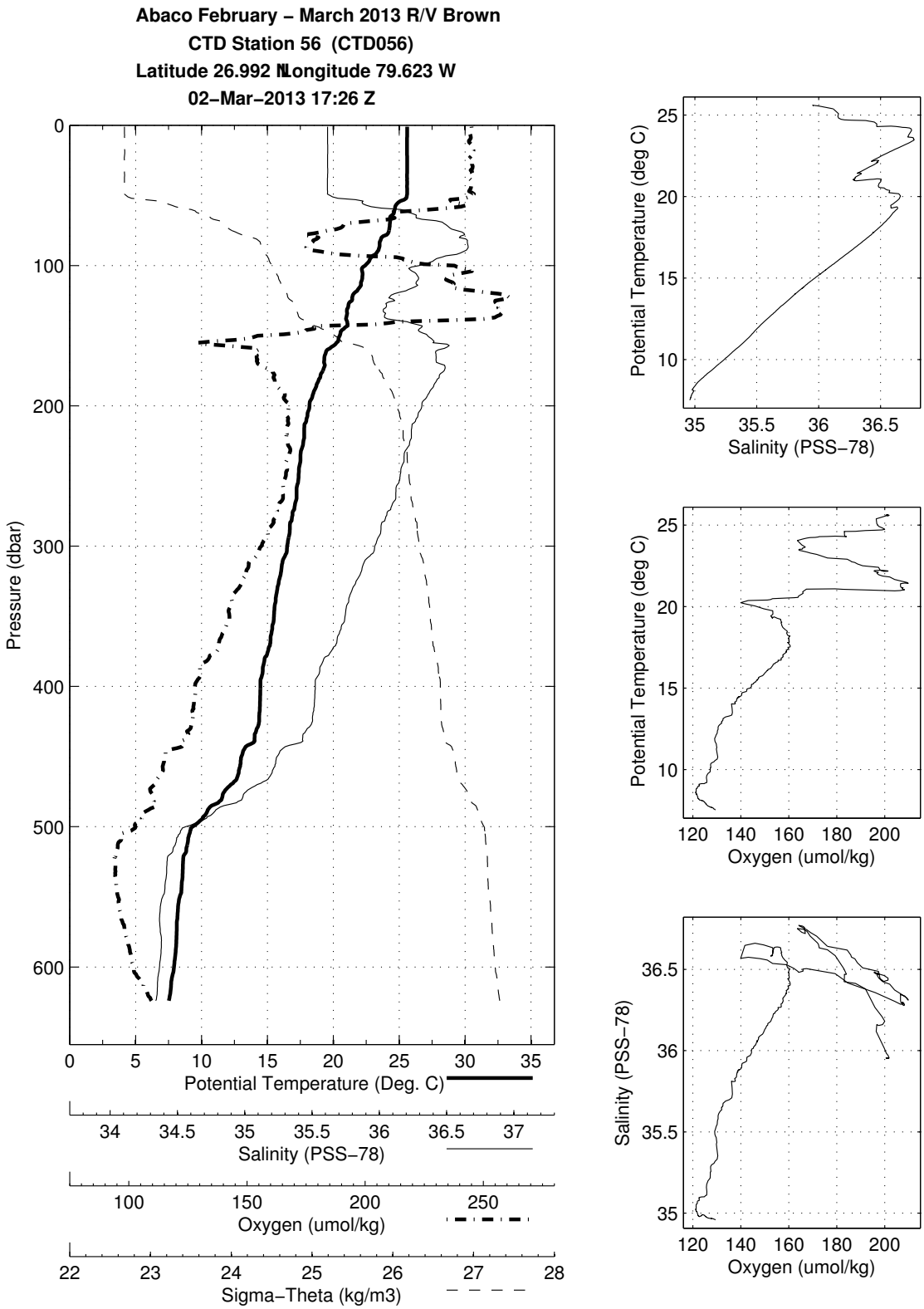
Abaco February - March 2013 R/V Brown
CTD Station 55 (CTD055)
Latitude 26.991N Longitude 79.623W
02-Mar-2013 16:13Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.596	25.596	35.968	200.7	0.004	23.890
10	25.596	25.594	35.969	200.3	0.040	23.891
20	25.603	25.599	35.968	200.8	0.080	23.889
30	25.602	25.596	35.968	200.5	0.120	23.890
50	25.603	25.591	35.969	201.3	0.201	23.892
75	24.227	24.211	36.739	163.2	0.286	24.896
100	23.277	23.257	36.801	163.2	0.359	25.226
125	21.469	21.444	36.461	181.1	0.426	25.484
150	20.270	20.242	36.681	148.1	0.486	25.980
200	18.294	18.259	36.512	159.6	0.578	26.366
250	17.374	17.331	36.371	159.0	0.662	26.487
300	16.323	16.275	36.191	152.3	0.741	26.600
400	14.525	14.465	35.882	139.5	0.888	26.769
500	9.038	8.983	35.078	122.2	1.013	27.182
600	7.991	7.929	34.979	125.0	1.108	27.268


Abaco February – March 2013 R/V Brown
CTD Station 55 (CTD055)
Latitude 26.991 N Longitude 79.623 W
02–Mar–2013 16:13 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

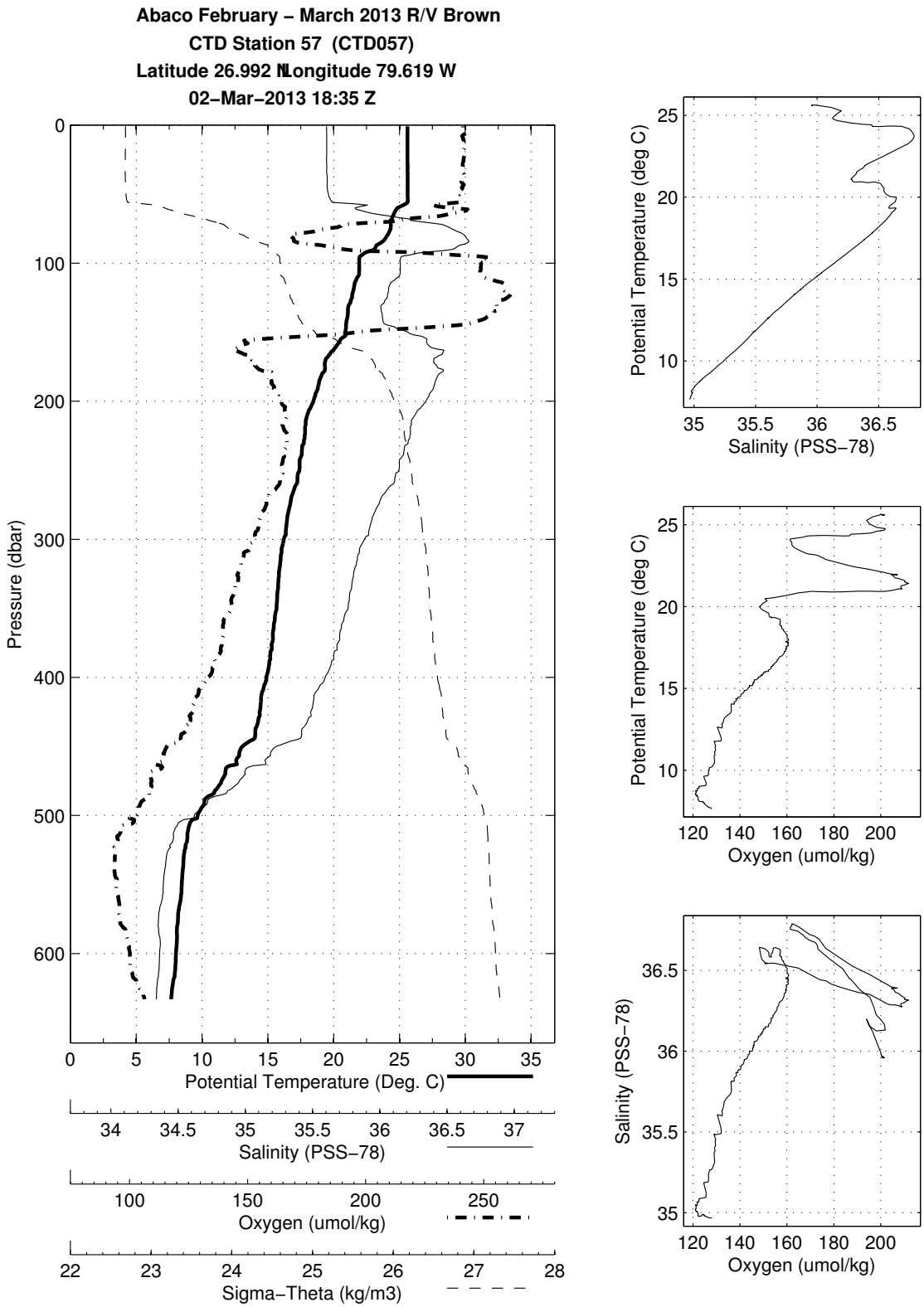
Abaco February - March 2013 R/V Brown
CTD Station 56 (CTD056)
Latitude 26.992N Longitude 79.623W
02-Mar-2013 17:26Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.603	25.603	35.955	201.2	0.004	23.878
10	25.603	25.601	35.955	200.9	0.040	23.878
20	25.602	25.598	35.956	201.3	0.080	23.880
30	25.613	25.606	35.955	201.5	0.121	23.877
50	25.599	25.588	35.970	201.4	0.201	23.893
75	24.258	24.242	36.705	168.9	0.287	24.860
100	22.435	22.415	36.487	197.4	0.359	25.230
125	21.432	21.408	36.345	206.5	0.427	25.406
150	20.518	20.490	36.536	153.2	0.489	25.802
200	18.227	18.192	36.502	160.4	0.583	26.375
250	17.411	17.368	36.377	159.6	0.666	26.482
300	16.544	16.495	36.229	154.1	0.746	26.578
400	14.535	14.475	35.883	139.1	0.893	26.768
500	9.382	9.325	35.132	125.8	1.019	27.169
600	7.973	7.911	34.979	125.5	1.114	27.270


Abaco February – March 2013 R/V Brown
CTD Station 56 (CTD056)
Latitude 26.992 N Longitude 79.623 W
02–Mar–2013 17:26 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

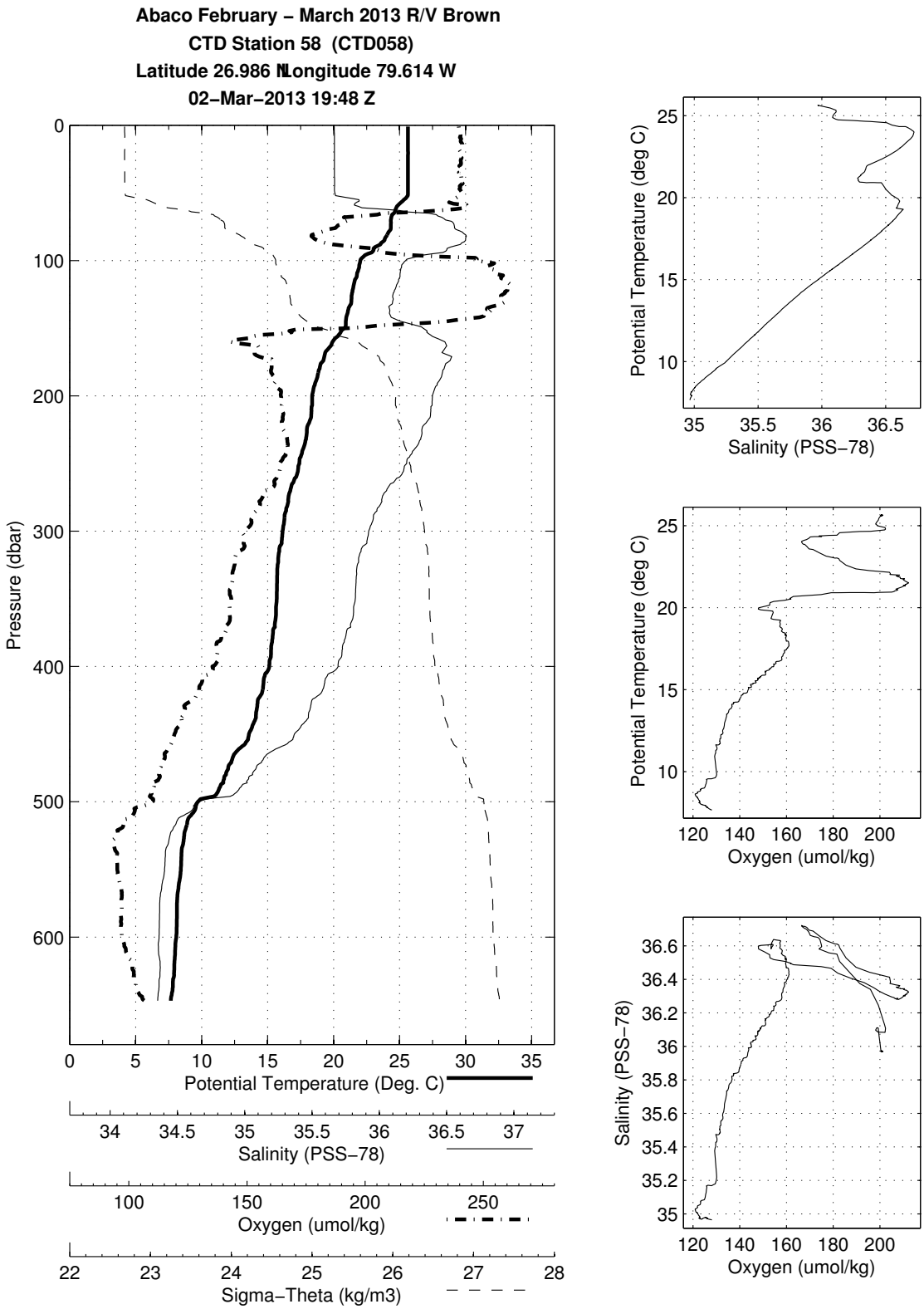
Abaco February - March 2013 R/V Brown
CTD Station 57 (CTD057)
Latitude 26.992N Longitude 79.619W
02-Mar-2013 18:35Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.607	25.607	35.959	200.8	0.004	23.880
10	25.612	25.610	35.960	200.8	0.040	23.879
20	25.617	25.613	35.959	201.0	0.080	23.878
30	25.624	25.618	35.960	200.9	0.121	23.877
50	25.630	25.619	35.970	200.5	0.201	23.884
75	24.342	24.326	36.687	169.6	0.291	24.821
100	21.959	21.939	36.389	205.0	0.363	25.291
125	21.418	21.394	36.313	211.0	0.430	25.385
150	20.932	20.903	36.434	176.8	0.494	25.613
200	18.493	18.458	36.538	159.3	0.592	26.336
250	17.433	17.391	36.380	159.6	0.675	26.479
300	16.251	16.202	36.178	153.1	0.754	26.607
400	14.953	14.892	35.950	142.3	0.902	26.729
500	9.726	9.668	35.188	126.2	1.029	27.156
600	8.075	8.012	34.985	124.6	1.124	27.260


Abaco February – March 2013 R/V Brown
CTD Station 57 (CTD057)
Latitude 26.992 N Longitude 79.619 W
02–Mar–2013 18:35 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

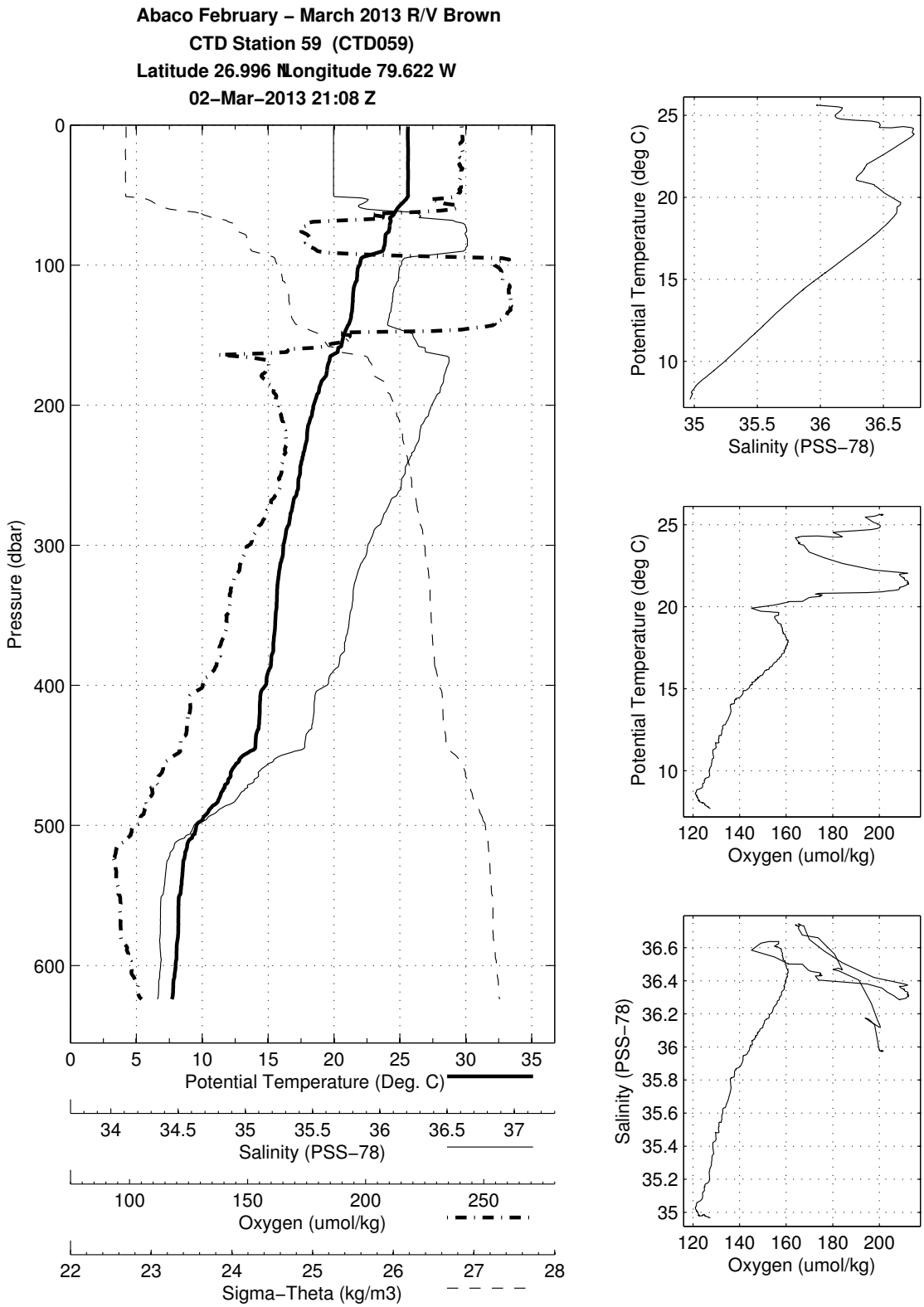
Abaco February - March 2013 R/V Brown
CTD Station 58 (CTD058)
Latitude 26.986N Longitude 79.614W
02-Mar-2013 19:48Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.635	25.634	35.970	200.3	0.004	23.880
10	25.635	25.632	35.971	200.9	0.040	23.881
20	25.643	25.638	35.971	200.9	0.080	23.879
30	25.641	25.634	35.971	200.4	0.121	23.880
50	25.642	25.631	35.973	200.9	0.201	23.883
75	24.353	24.337	36.654	172.3	0.290	24.793
100	22.045	22.025	36.375	204.2	0.363	25.256
125	21.403	21.379	36.304	210.4	0.430	25.383
150	20.828	20.799	36.476	174.8	0.494	25.673
200	18.405	18.370	36.528	159.4	0.590	26.350
250	17.448	17.405	36.382	159.1	0.675	26.477
300	16.181	16.132	36.166	151.4	0.753	26.614
400	15.193	15.131	35.992	143.7	0.902	26.708
500	9.784	9.726	35.199	129.9	1.031	27.154
600	8.137	8.074	34.973	122.9	1.127	27.242


Abaco February – March 2013 R/V Brown
CTD Station 58 (CTD058)
Latitude 26.986 N Longitude 79.614 W
02–Mar–2013 19:48 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

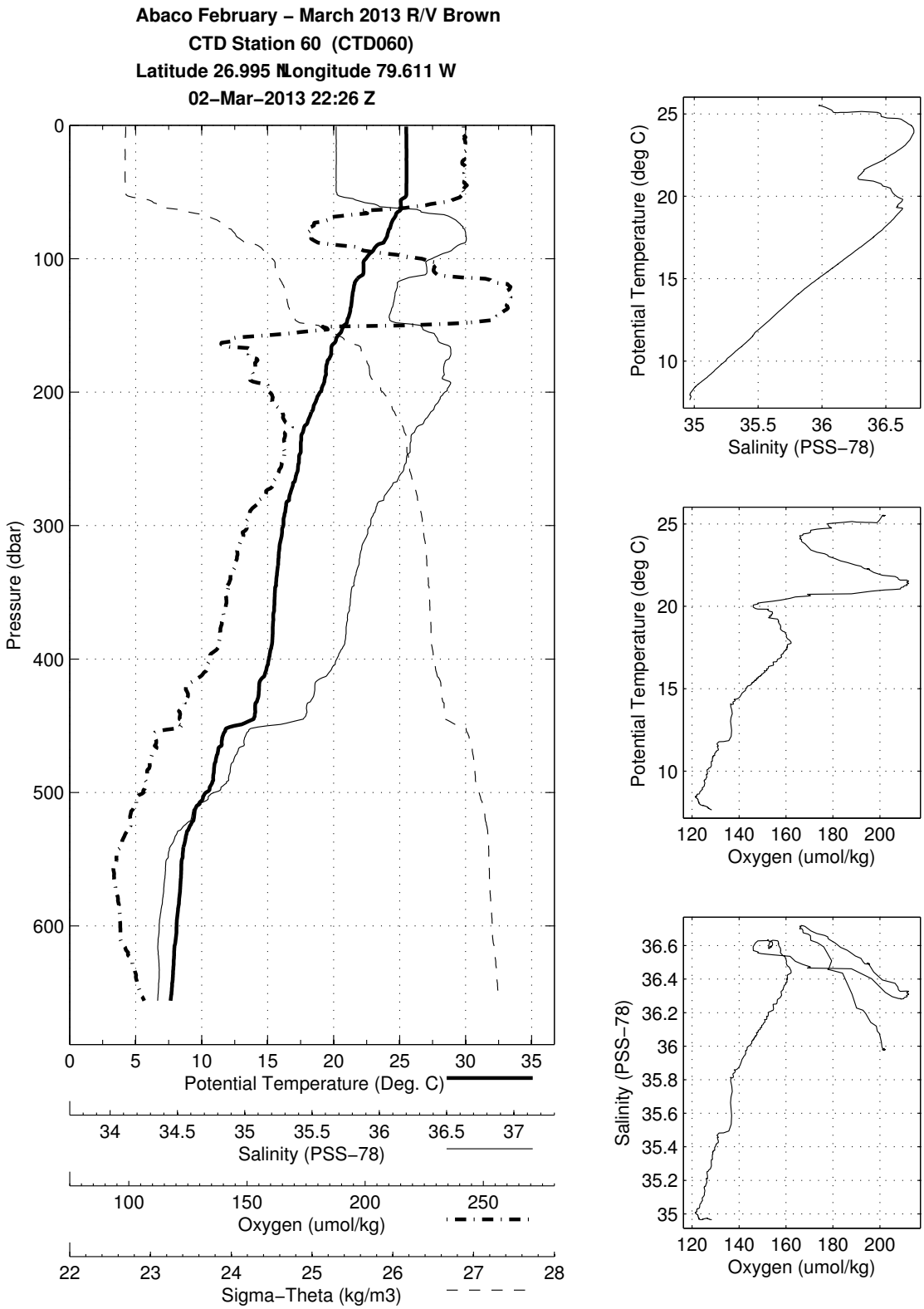
Abaco February - March 2013 R/V Brown
CTD Station 59 (CTD059)
Latitude 26.996N Longitude 79.622W
02-Mar-2013 21:08Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.607	25.606	35.975	201.2	0.004	23.892
10	25.607	25.604	35.975	201.4	0.040	23.893
20	25.626	25.622	35.975	200.7	0.080	23.887
30	25.622	25.616	35.975	201.0	0.120	23.889
50	25.629	25.618	35.975	200.3	0.201	23.888
75	24.187	24.171	36.740	164.2	0.287	24.908
100	21.963	21.943	36.364	208.7	0.360	25.271
125	21.458	21.433	36.313	212.5	0.427	25.375
150	20.761	20.732	36.430	175.4	0.491	25.656
200	18.490	18.455	36.538	158.7	0.590	26.336
250	17.437	17.395	36.380	159.4	0.675	26.478
300	16.217	16.168	36.172	152.1	0.754	26.611
400	14.879	14.818	35.937	141.4	0.902	26.735
500	9.622	9.565	35.174	125.9	1.028	27.162
600	8.041	7.978	34.983	125.0	1.123	27.264


Abaco February – March 2013 R/V Brown
CTD Station 59 (CTD059)
Latitude 26.996 N Longitude 79.622 W
02–Mar–2013 21:08 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

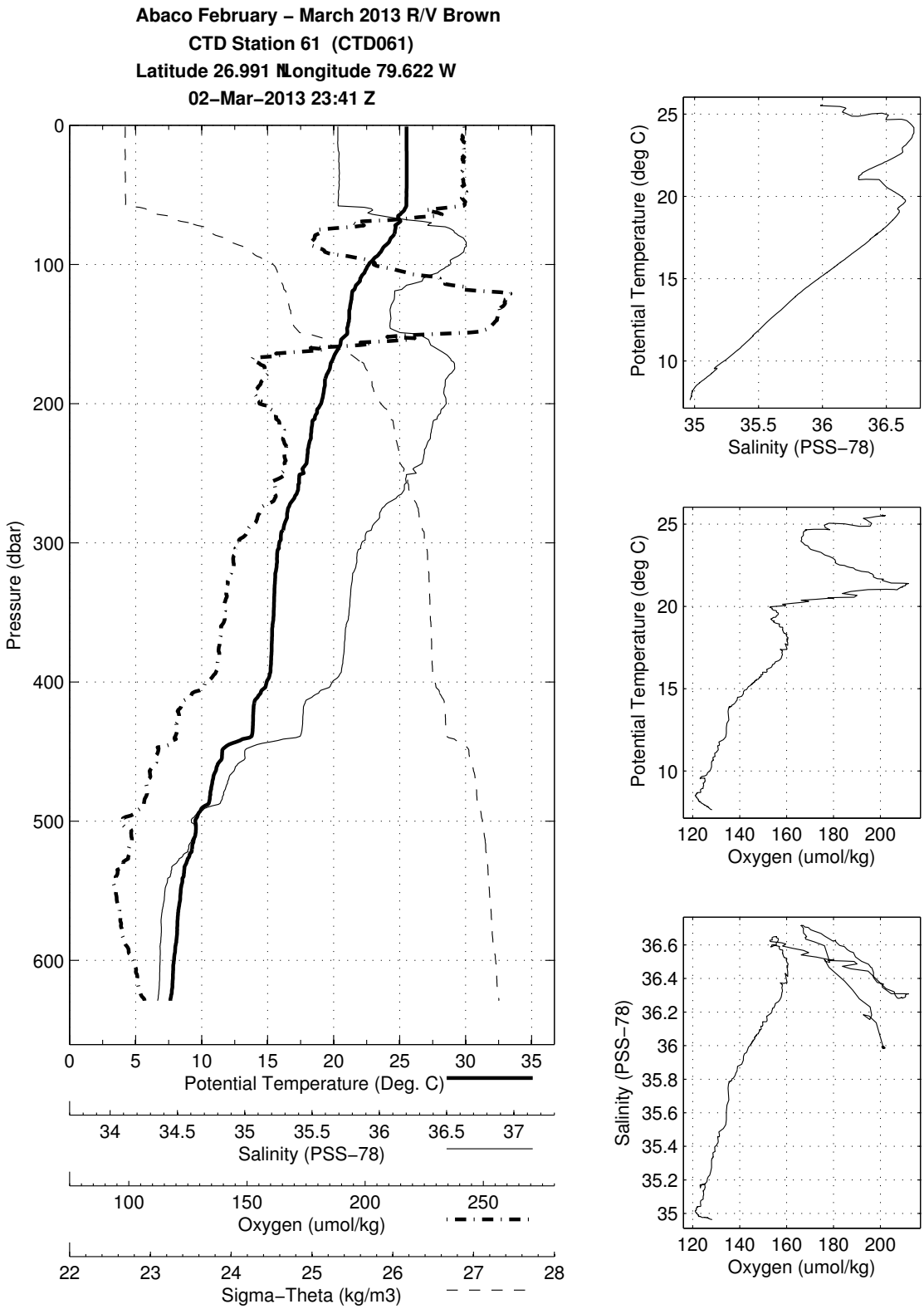
Abaco February - March 2013 R/V Brown
CTD Station 60 (CTD060)
Latitude 26.995N Longitude 79.611W
02-Mar-2013 22:26Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.504	25.504	35.980	201.5	0.004	23.927
10	25.516	25.513	35.980	201.6	0.040	23.924
20	25.525	25.521	35.981	201.5	0.080	23.923
30	25.528	25.522	35.980	201.7	0.119	23.921
50	25.527	25.516	35.980	201.6	0.199	23.924
75	24.351	24.335	36.690	167.2	0.288	24.821
100	22.458	22.438	36.523	192.0	0.362	25.252
125	21.472	21.448	36.316	211.6	0.429	25.373
150	20.793	20.764	36.461	187.8	0.494	25.671
200	19.010	18.974	36.598	157.0	0.595	26.250
250	17.420	17.377	36.379	160.1	0.680	26.482
300	16.238	16.190	36.175	151.8	0.759	26.608
400	15.150	15.088	35.983	143.4	0.908	26.711
500	10.386	10.326	35.286	128.2	1.033	27.119
600	8.161	8.098	34.974	122.8	1.130	27.239


Abaco February – March 2013 R/V Brown
CTD Station 60 (CTD060)
Latitude 26.995 N Longitude 79.611 W
02–Mar–2013 22:26 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

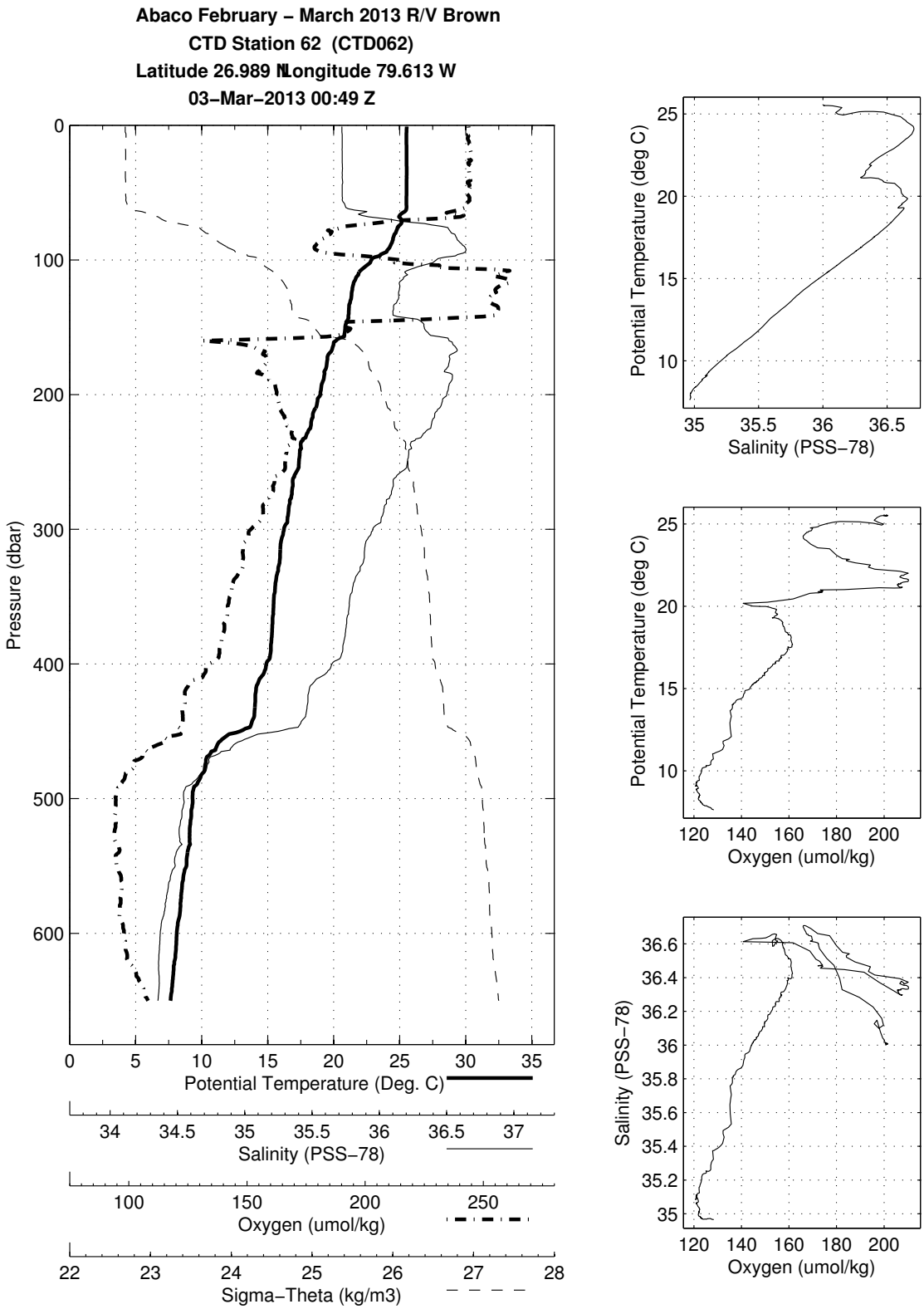
Abaco February - March 2013 R/V Brown
CTD Station 61 (CTD061)
Latitude 26.991N Longitude 79.622W
02-Mar-2013 23:41Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.519	25.519	35.986	201.5	0.004	23.927
10	25.522	25.520	35.986	200.8	0.040	23.927
20	25.543	25.539	35.993	200.8	0.080	23.927
30	25.542	25.536	35.993	201.1	0.119	23.927
50	25.534	25.523	35.991	201.4	0.199	23.929
75	24.680	24.664	36.634	168.2	0.292	24.679
100	22.690	22.670	36.626	180.6	0.367	25.263
125	21.376	21.352	36.306	210.9	0.434	25.392
150	21.049	21.020	36.444	194.8	0.499	25.588
200	19.083	19.047	36.602	154.5	0.600	26.234
250	17.780	17.737	36.431	159.4	0.687	26.434
300	15.925	15.877	36.121	149.9	0.766	26.639
400	14.988	14.927	35.955	142.4	0.913	26.725
500	9.581	9.524	35.154	123.2	1.033	27.153
600	7.961	7.899	34.976	125.5	1.129	27.270


Abaco February – March 2013 R/V Brown
CTD Station 61 (CTD061)
Latitude 26.991 N Longitude 79.622 W
02–Mar–2013 23:41 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

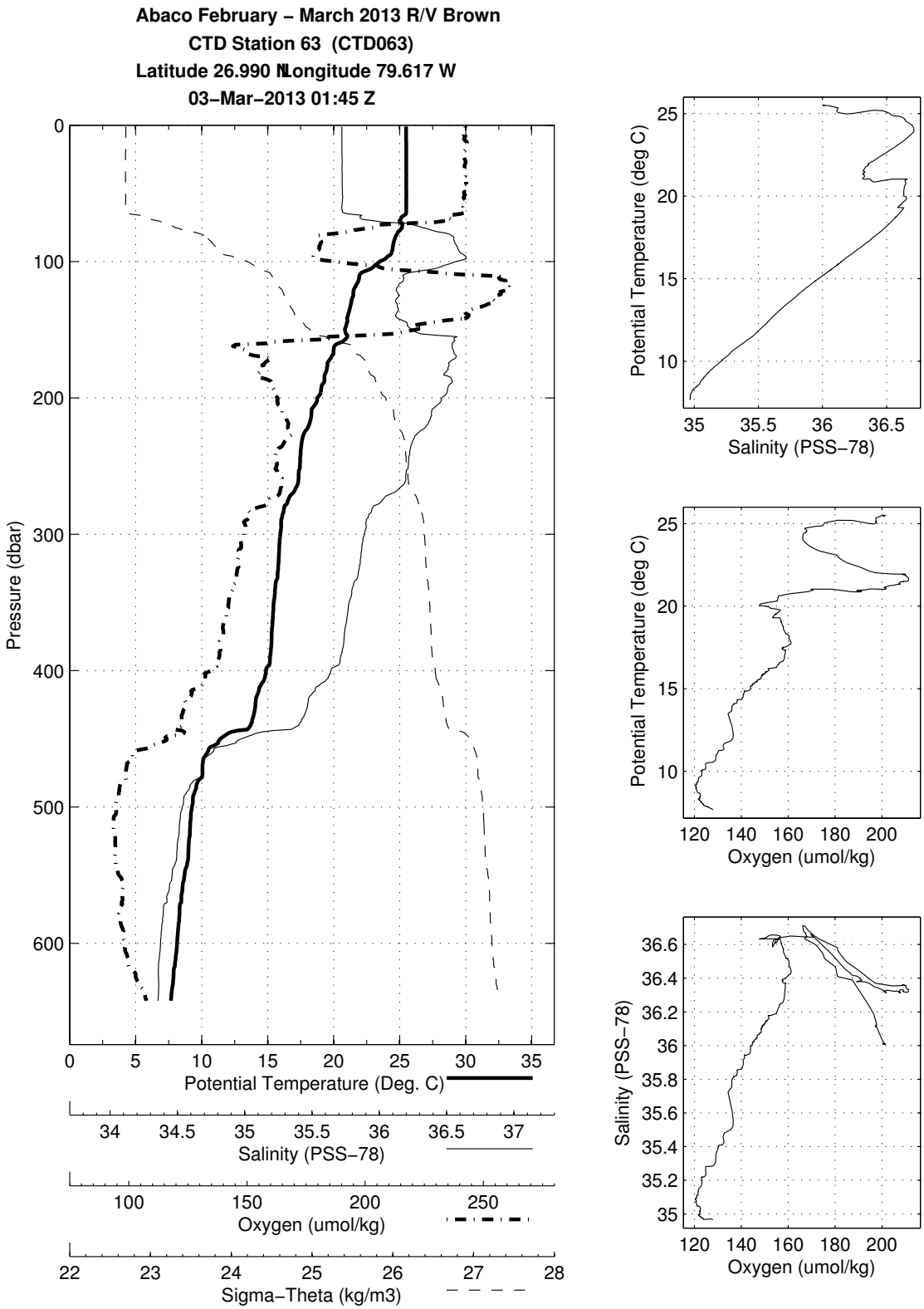
Abaco February - March 2013 R/V Brown
CTD Station 62 (CTD062)
Latitude 26.989N Longitude 79.613W
03-Mar-2013 00:49Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.523	25.523	36.006	200.9	0.004	23.941
10	25.511	25.509	36.008	200.6	0.040	23.947
20	25.517	25.512	36.007	201.4	0.079	23.945
30	25.528	25.521	36.008	201.4	0.119	23.943
50	25.526	25.515	36.008	200.7	0.198	23.945
75	24.913	24.897	36.571	172.8	0.294	24.561
100	22.868	22.847	36.541	185.4	0.372	25.147
125	21.381	21.357	36.327	206.0	0.440	25.406
150	20.899	20.870	36.472	173.3	0.503	25.651
200	19.011	18.975	36.599	157.4	0.604	26.251
250	17.410	17.367	36.377	159.4	0.689	26.483
300	16.274	16.226	36.180	151.6	0.768	26.604
400	14.956	14.895	35.950	142.0	0.916	26.728
500	9.367	9.310	35.110	121.0	1.039	27.154
600	8.177	8.114	34.978	122.9	1.137	27.239


Abaco February – March 2013 R/V Brown
CTD Station 62 (CTD062)
Latitude 26.989 N Longitude 79.613 W
03–Mar–2013 00:49 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

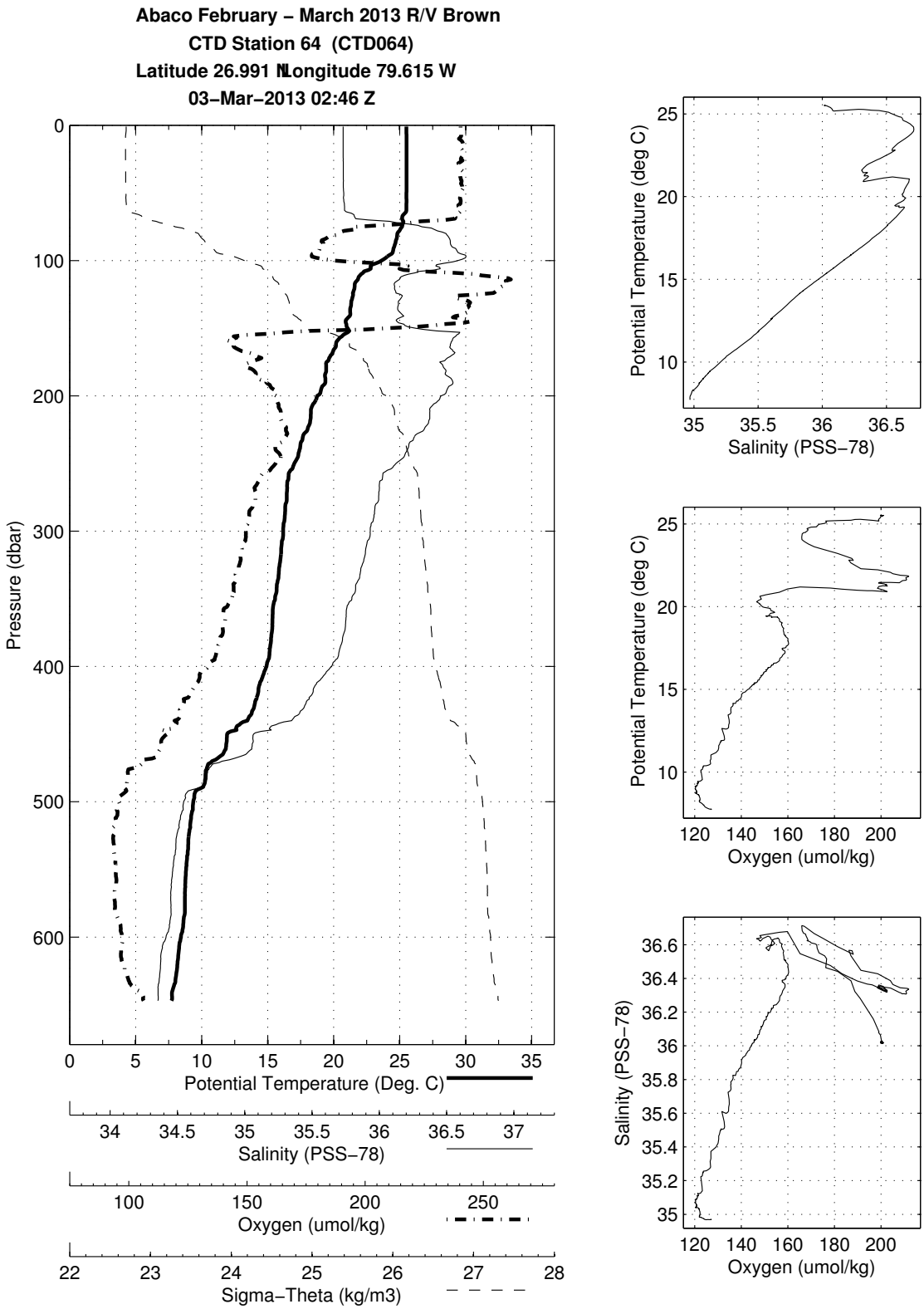
Abaco February - March 2013 R/V Brown
CTD Station 63 (CTD063)
Latitude 26.990N Longitude 79.617W
03-Mar-2013 01:45Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.488	25.487	36.009	201.0	0.004	23.954
10	25.490	25.488	36.008	200.7	0.039	23.954
20	25.499	25.495	36.009	200.8	0.079	23.952
30	25.506	25.499	36.010	200.8	0.119	23.951
50	25.513	25.502	36.012	200.6	0.198	23.952
75	25.192	25.176	36.467	180.2	0.294	24.397
100	23.508	23.488	36.653	171.0	0.375	25.045
125	21.507	21.482	36.332	208.0	0.444	25.376
150	20.888	20.859	36.411	189.5	0.508	25.607
200	18.796	18.761	36.575	158.0	0.608	26.287
250	17.482	17.440	36.385	157.7	0.693	26.471
300	16.002	15.954	36.135	150.2	0.771	26.632
400	14.933	14.872	35.946	142.7	0.919	26.730
500	9.316	9.259	35.103	121.0	1.039	27.157
600	8.198	8.135	34.981	122.9	1.136	27.238


Abaco February – March 2013 R/V Brown
CTD Station 63 (CTD063)
Latitude 26.990 N Longitude 79.617 W
03–Mar–2013 01:45 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

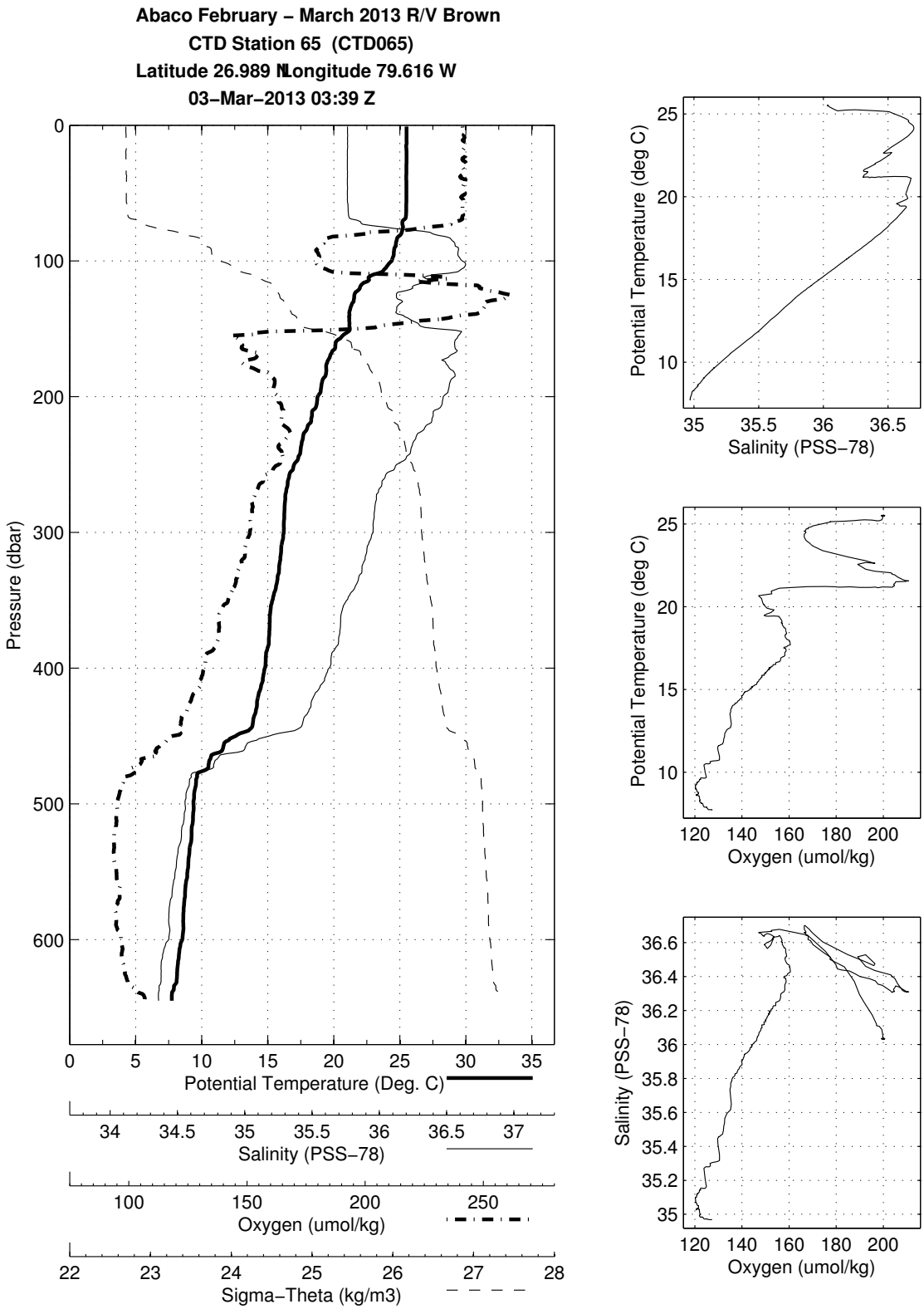
Abaco February - March 2013 R/V Brown
CTD Station 64 (CTD064)
Latitude 26.991N Longitude 79.615W
03-Mar-2013 02:46Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.504	25.504	36.018	200.3	0.004	23.956
10	25.521	25.519	36.017	199.9	0.039	23.951
20	25.523	25.519	36.018	200.7	0.079	23.951
30	25.524	25.518	36.018	200.2	0.119	23.952
50	25.525	25.514	36.021	200.5	0.198	23.955
75	25.190	25.173	36.464	176.2	0.295	24.395
100	23.647	23.626	36.667	171.3	0.376	25.015
125	21.492	21.467	36.343	204.2	0.445	25.388
150	21.086	21.057	36.429	183.2	0.509	25.567
200	18.781	18.745	36.572	157.8	0.610	26.289
250	17.055	17.014	36.317	157.6	0.694	26.522
300	16.223	16.175	36.171	150.8	0.771	26.608
400	14.969	14.908	35.952	142.1	0.920	26.727
500	9.415	9.358	35.114	121.5	1.042	27.149
600	8.493	8.428	35.014	122.2	1.141	27.220


Abaco February – March 2013 R/V Brown
CTD Station 64 (CTD064)
Latitude 26.991 N Longitude 79.615 W
03–Mar–2013 02:46 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

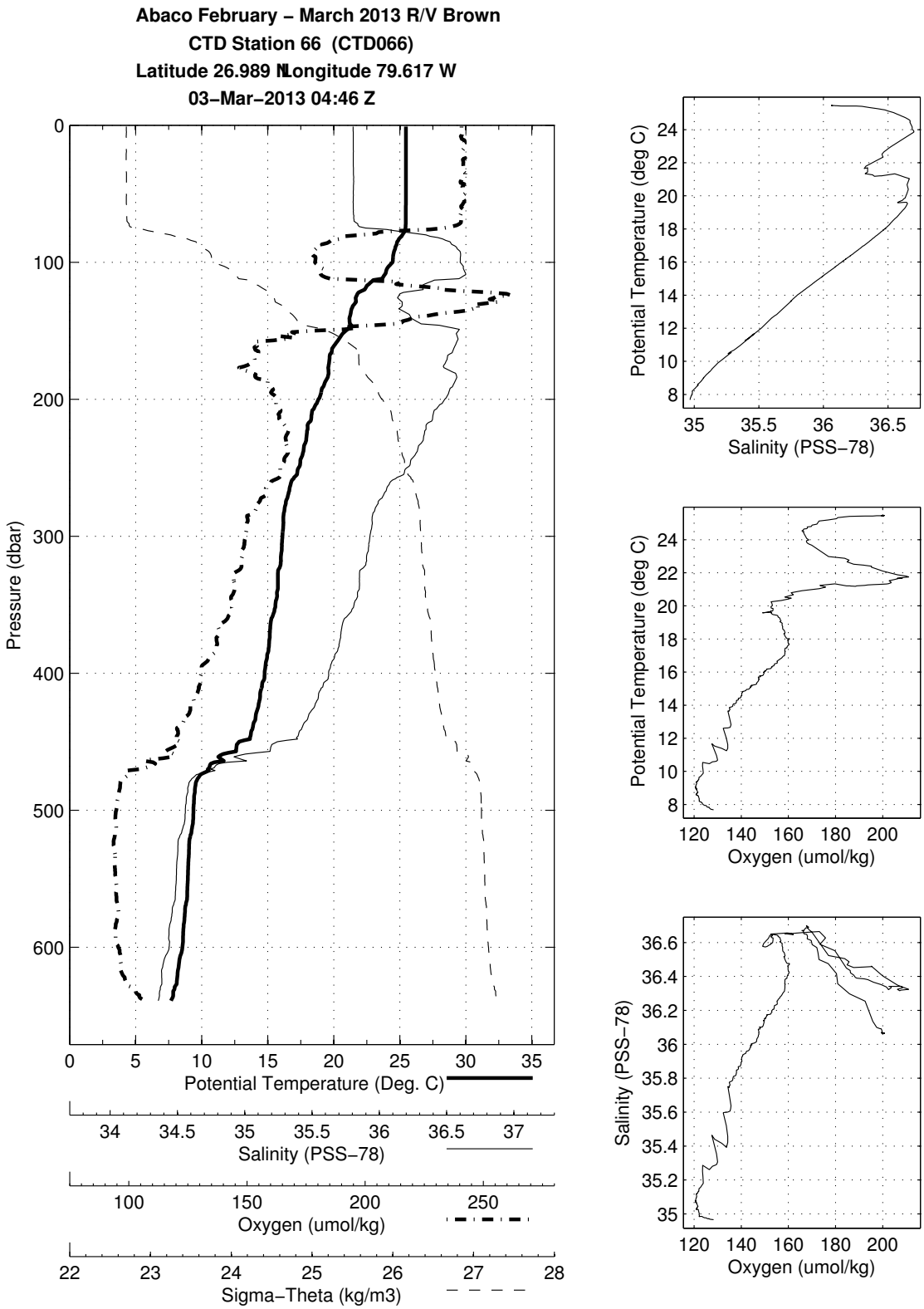
Abaco February - March 2013 R/V Brown
CTD Station 65 (CTD065)
Latitude 26.989N Longitude 79.616W
03-Mar-2013 03:39Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.514	25.514	36.035	199.8	0.004	23.966
10	25.514	25.512	36.035	200.1	0.039	23.966
20	25.514	25.510	36.033	200.0	0.079	23.966
30	25.511	25.505	36.034	199.8	0.118	23.968
50	25.511	25.500	36.034	200.4	0.197	23.969
75	25.264	25.247	36.246	191.9	0.295	24.207
100	24.407	24.385	36.681	166.4	0.379	24.799
125	21.588	21.563	36.310	210.7	0.450	25.336
150	21.251	21.221	36.547	175.5	0.515	25.612
200	18.814	18.779	36.575	157.8	0.614	26.282
250	17.036	16.994	36.311	157.8	0.699	26.522
300	16.266	16.217	36.178	151.2	0.776	26.604
400	14.842	14.781	35.931	140.9	0.923	26.738
500	9.433	9.376	35.118	120.9	1.046	27.150
600	8.592	8.527	35.026	121.8	1.145	27.214


Abaco February – March 2013 R/V Brown
CTD Station 65 (CTD065)
Latitude 26.989 N Longitude 79.616 W
03–Mar–2013 03:39 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

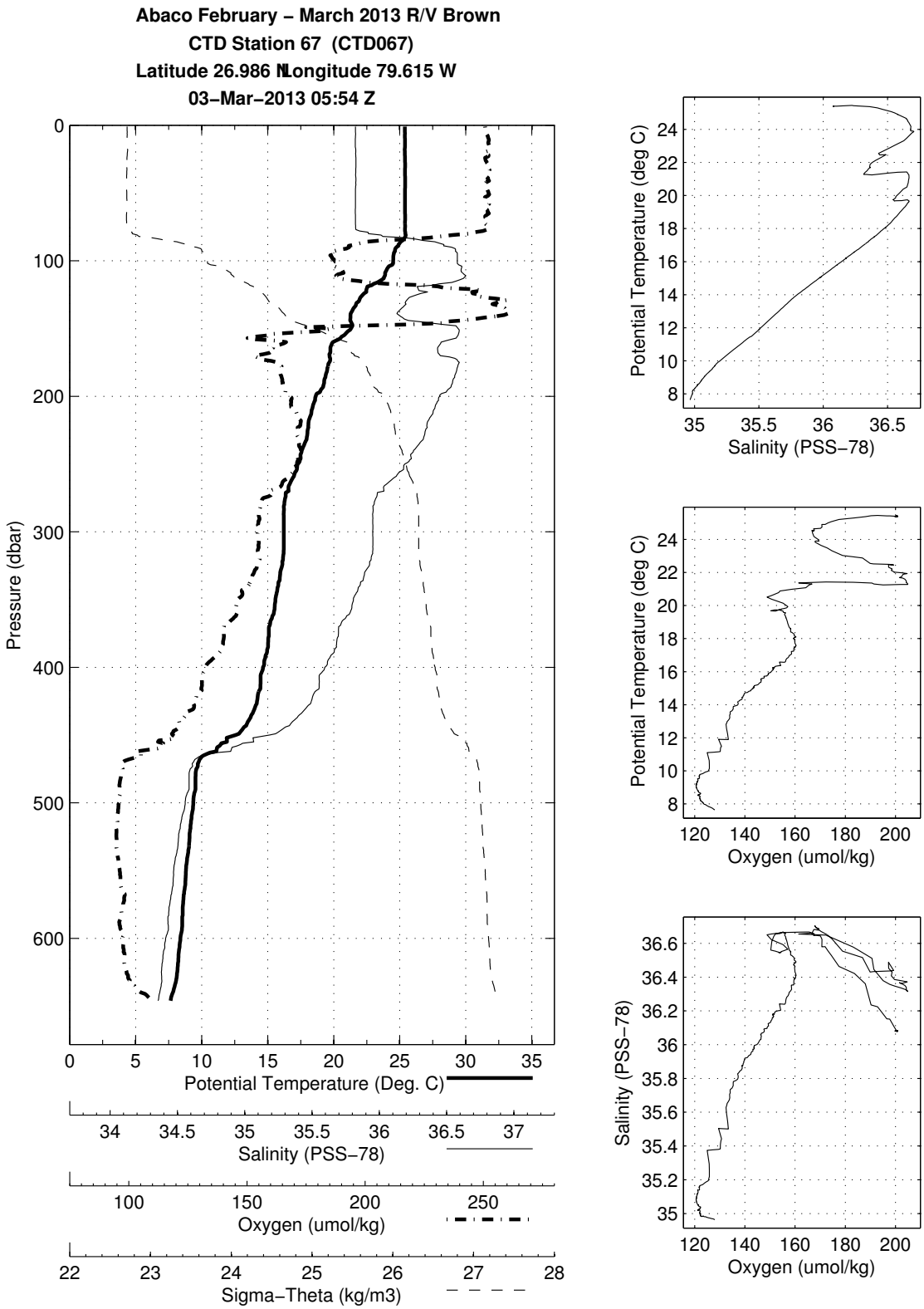
Abaco February - March 2013 R/V Brown
CTD Station 66 (CTD066)
Latitude 26.989N Longitude 79.617W
03-Mar-2013 04:46Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.459	25.459	36.065	199.8	0.004	24.006
10	25.461	25.459	36.066	199.8	0.039	24.006
20	25.468	25.463	36.066	200.2	0.078	24.005
30	25.474	25.467	36.066	200.2	0.117	24.004
50	25.471	25.460	36.066	200.6	0.195	24.006
75	25.447	25.431	36.136	195.8	0.293	24.068
100	24.474	24.453	36.668	166.4	0.378	24.769
125	21.726	21.701	36.320	207.7	0.451	25.305
150	20.944	20.916	36.659	165.8	0.515	25.781
200	18.873	18.837	36.582	157.3	0.614	26.273
250	17.372	17.330	36.369	158.5	0.699	26.486
300	16.161	16.112	36.160	150.6	0.777	26.615
400	14.822	14.761	35.927	140.5	0.924	26.740
500	9.431	9.374	35.119	121.1	1.047	27.150
600	8.599	8.534	35.027	121.6	1.147	27.213


Abaco February – March 2013 R/V Brown
CTD Station 66 (CTD066)
Latitude 26.989 N Longitude 79.617 W
03–Mar–2013 04:46 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

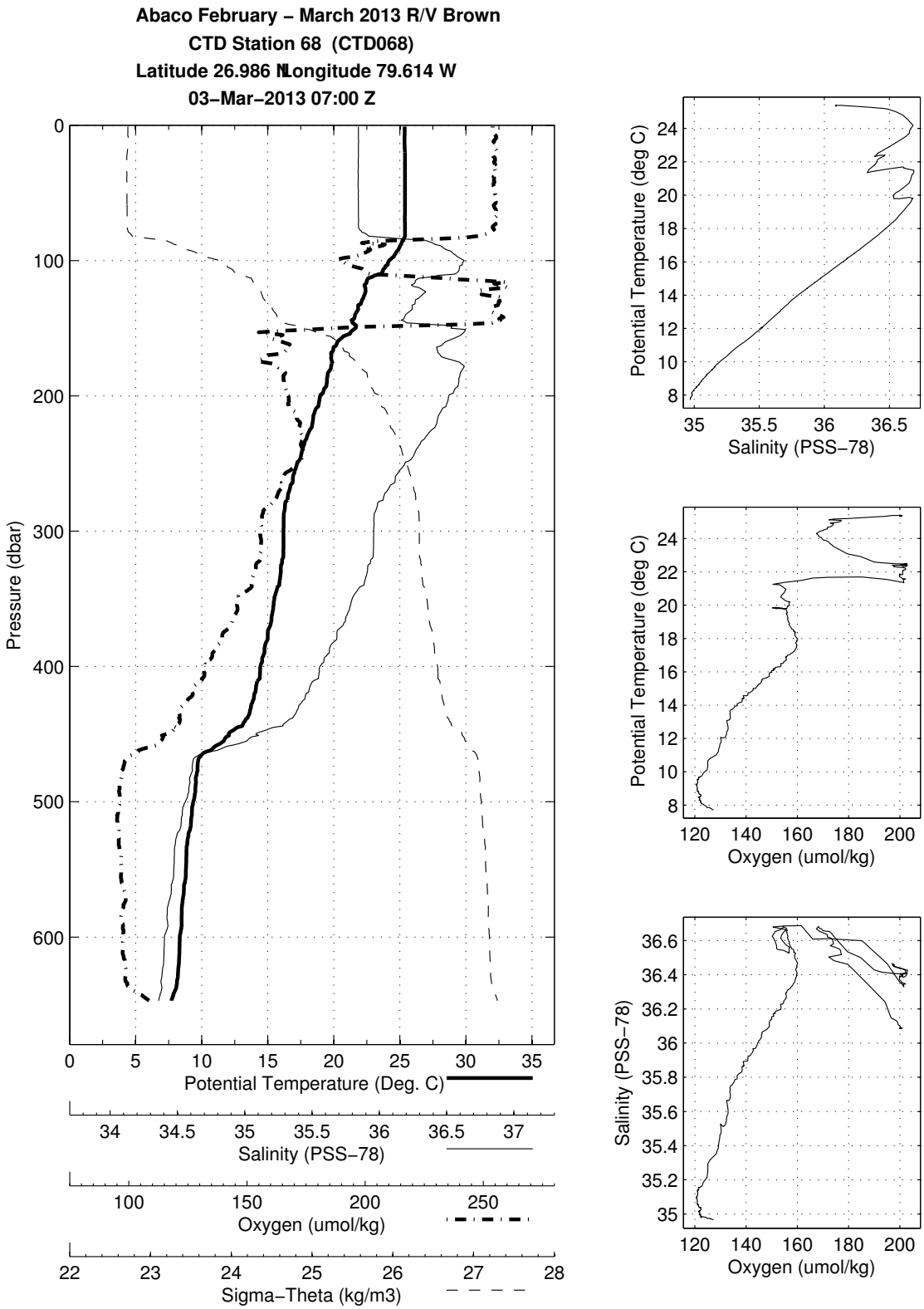
Abaco February - March 2013 R/V Brown
CTD Station 67 (CTD067)
Latitude 26.986N Longitude 79.615W
03-Mar-2013 05:54Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.388	25.388	36.081	200.0	0.004	24.039
10	25.394	25.392	36.080	200.8	0.039	24.037
20	25.387	25.383	36.082	199.8	0.077	24.042
30	25.411	25.404	36.083	200.5	0.116	24.036
50	25.406	25.395	36.080	200.7	0.194	24.036
75	25.419	25.403	36.081	200.8	0.291	24.035
100	24.522	24.500	36.656	167.4	0.379	24.746
125	22.240	22.215	36.430	198.7	0.453	25.244
150	21.332	21.303	36.661	166.8	0.519	25.676
200	18.672	18.637	36.556	158.0	0.618	26.304
250	17.318	17.276	36.360	159.5	0.703	26.492
300	16.262	16.213	36.178	151.1	0.781	26.605
400	14.699	14.639	35.906	139.8	0.929	26.750
500	9.416	9.359	35.116	121.2	1.050	27.151
600	8.444	8.380	35.006	121.9	1.149	27.221


Abaco February – March 2013 R/V Brown
CTD Station 67 (CTD067)
Latitude 26.986 N Longitude 79.615 W
03–Mar–2013 05:54 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

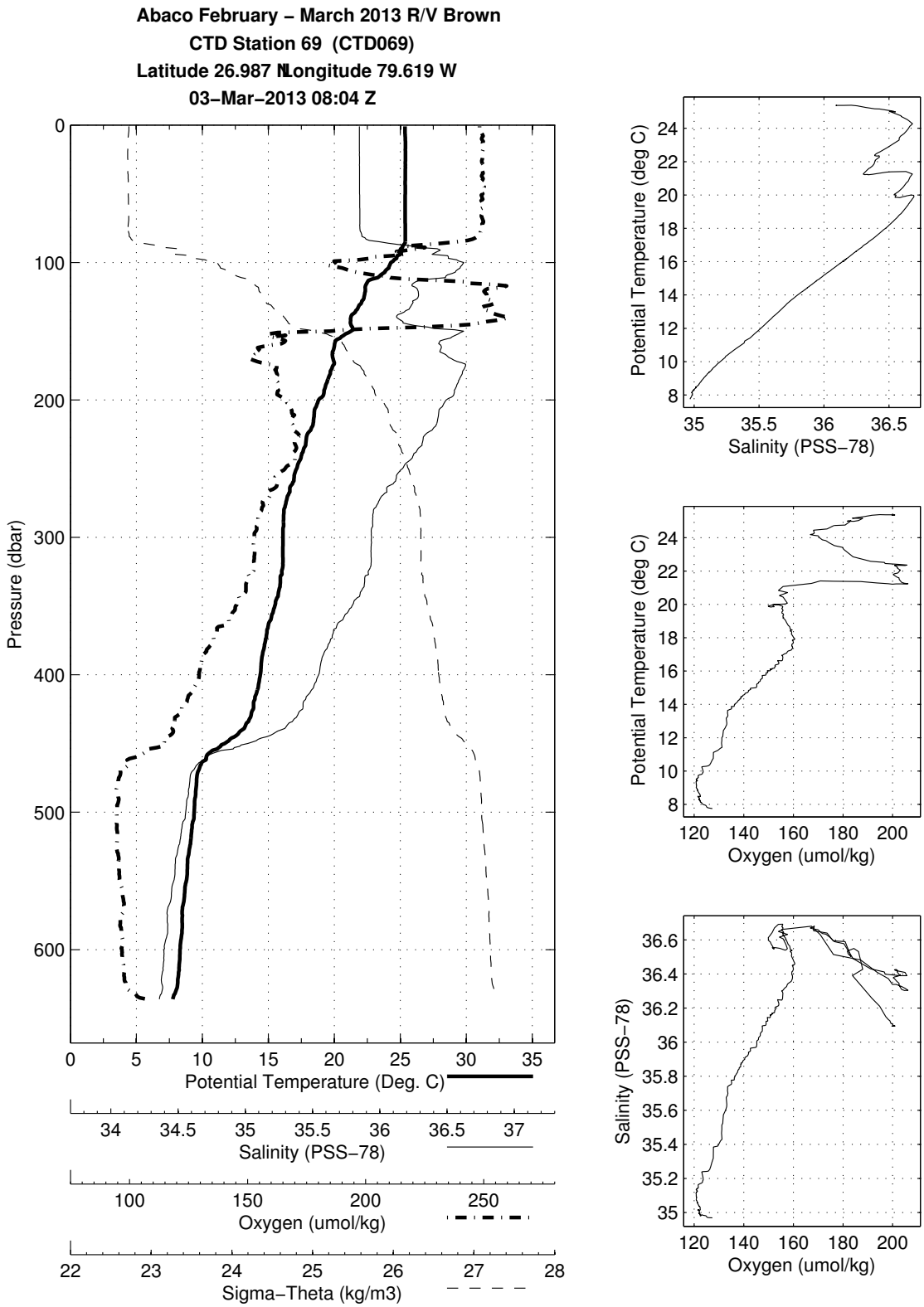
Abaco February - March 2013 R/V Brown
CTD Station 68 (CTD068)
Latitude 26.986N Longitude 79.614W
03-Mar-2013 07:00Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.358	25.358	36.088	200.0	0.004	24.054
10	25.347	25.345	36.088	200.6	0.039	24.058
20	25.381	25.377	36.088	200.3	0.077	24.048
30	25.391	25.384	36.088	199.9	0.116	24.046
50	25.393	25.382	36.087	200.4	0.193	24.046
75	25.396	25.379	36.088	199.9	0.290	24.048
100	24.207	24.185	36.682	168.3	0.379	24.860
125	22.349	22.324	36.449	197.6	0.452	25.228
150	21.661	21.631	36.608	166.0	0.519	25.544
200	18.989	18.953	36.594	156.7	0.621	26.253
250	17.256	17.214	36.349	158.5	0.707	26.498
300	16.235	16.187	36.174	150.9	0.785	26.608
400	14.495	14.435	35.872	139.1	0.933	26.768
500	9.419	9.362	35.117	121.1	1.053	27.150
600	8.397	8.333	34.999	121.8	1.151	27.222


Abaco February – March 2013 R/V Brown
CTD Station 68 (CTD068)
Latitude 26.986 N Longitude 79.614 W
03–Mar–2013 07:00 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

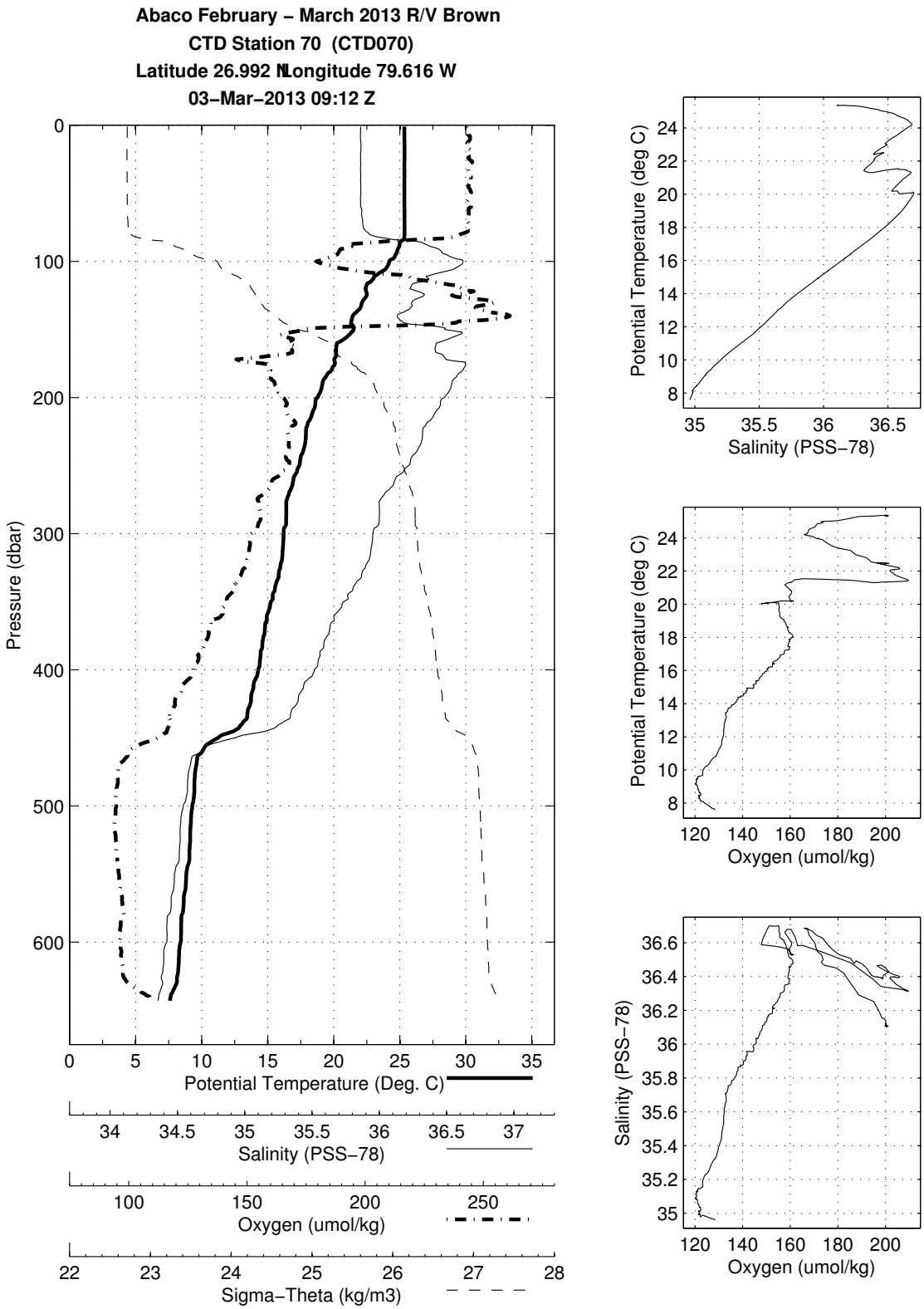
Abaco February - March 2013 R/V Brown
CTD Station 69 (CTD069)
Latitude 26.987N Longitude 79.619W
03-Mar-2013 08:04Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.350	25.350	36.094	199.8	0.004	24.061
10	25.376	25.373	36.094	200.3	0.038	24.054
20	25.389	25.385	36.095	200.4	0.077	24.051
30	25.387	25.381	36.095	200.5	0.116	24.052
50	25.381	25.370	36.095	200.5	0.193	24.056
75	25.391	25.375	36.096	200.2	0.290	24.055
100	24.294	24.273	36.681	168.4	0.380	24.833
125	22.279	22.254	36.425	201.6	0.454	25.229
150	21.289	21.260	36.680	167.3	0.519	25.702
200	18.844	18.809	36.582	157.6	0.620	26.280
250	17.188	17.146	36.337	157.5	0.705	26.506
300	16.156	16.108	36.162	150.8	0.782	26.617
400	14.446	14.386	35.865	138.8	0.929	26.773
500	9.430	9.373	35.117	120.9	1.047	27.149
600	8.364	8.300	34.995	122.0	1.145	27.225


Abaco February – March 2013 R/V Brown
CTD Station 69 (CTD069)
Latitude 26.987 N Longitude 79.619 W
03–Mar–2013 08:04 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

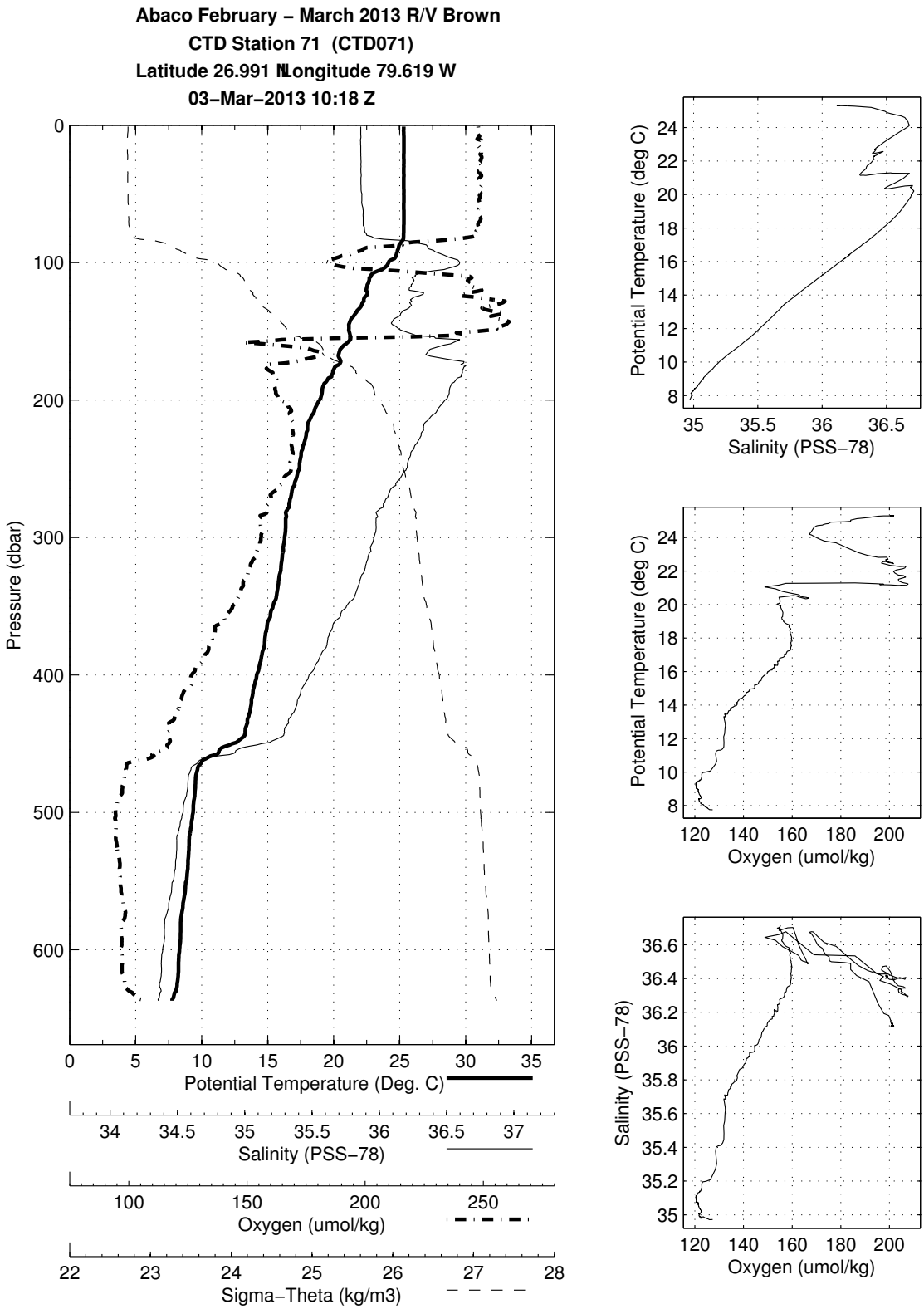
Abaco February - March 2013 R/V Brown
CTD Station 70 (CTD070)
Latitude 26.992N Longitude 79.616W
03-Mar-2013 09:12Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.346	25.345	36.106	199.8	0.004	24.072
10	25.351	25.349	36.106	200.6	0.038	24.070
20	25.362	25.358	36.108	200.3	0.077	24.069
30	25.358	25.352	36.107	200.2	0.115	24.070
50	25.361	25.350	36.108	200.8	0.192	24.071
75	25.374	25.357	36.122	200.2	0.289	24.080
100	24.226	24.205	36.686	165.8	0.377	24.857
125	22.518	22.493	36.465	196.5	0.451	25.191
150	21.524	21.495	36.582	163.1	0.518	25.562
200	18.812	18.776	36.581	158.2	0.620	26.287
250	17.427	17.385	36.378	159.6	0.705	26.479
300	16.249	16.200	36.176	151.1	0.783	26.606
400	14.338	14.278	35.846	138.1	0.929	26.782
500	9.337	9.280	35.104	120.7	1.047	27.154
600	8.463	8.399	35.009	121.6	1.145	27.220


Abaco February – March 2013 R/V Brown
CTD Station 70 (CTD070)
Latitude 26.992 N Longitude 79.616 W
03–Mar–2013 09:12 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

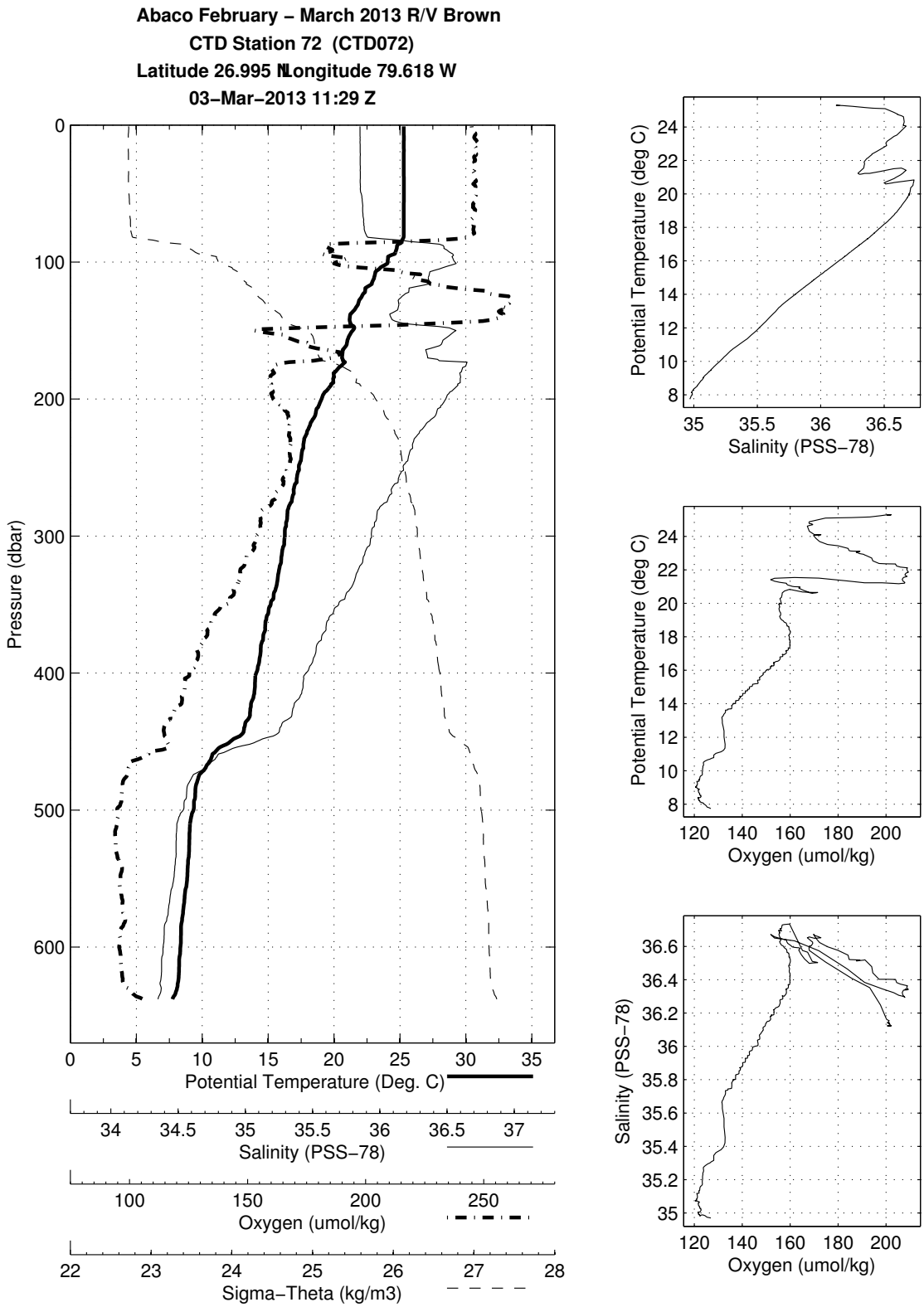
Abaco February - March 2013 R/V Brown
CTD Station 71 (CTD071)
Latitude 26.991N Longitude 79.619W
03-Mar-2013 10:18Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.303	25.303	36.119	200.8	0.004	24.094
10	25.318	25.316	36.118	200.6	0.038	24.089
20	25.320	25.316	36.118	201.6	0.076	24.090
30	25.321	25.314	36.120	201.5	0.115	24.092
50	25.325	25.314	36.125	201.4	0.191	24.096
75	25.323	25.307	36.139	201.2	0.287	24.108
100	24.177	24.156	36.678	167.9	0.375	24.866
125	22.371	22.345	36.421	200.2	0.448	25.200
150	21.200	21.171	36.366	200.5	0.515	25.488
200	18.936	18.900	36.596	157.1	0.620	26.267
250	17.416	17.374	36.377	159.4	0.705	26.482
300	16.334	16.286	36.193	152.7	0.784	26.599
400	14.222	14.162	35.826	137.3	0.930	26.791
500	9.409	9.352	35.113	120.4	1.049	27.149
600	8.383	8.319	34.997	121.7	1.147	27.223


Abaco February – March 2013 R/V Brown
CTD Station 71 (CTD071)
Latitude 26.991 N Longitude 79.619 W
03–Mar–2013 10:18 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

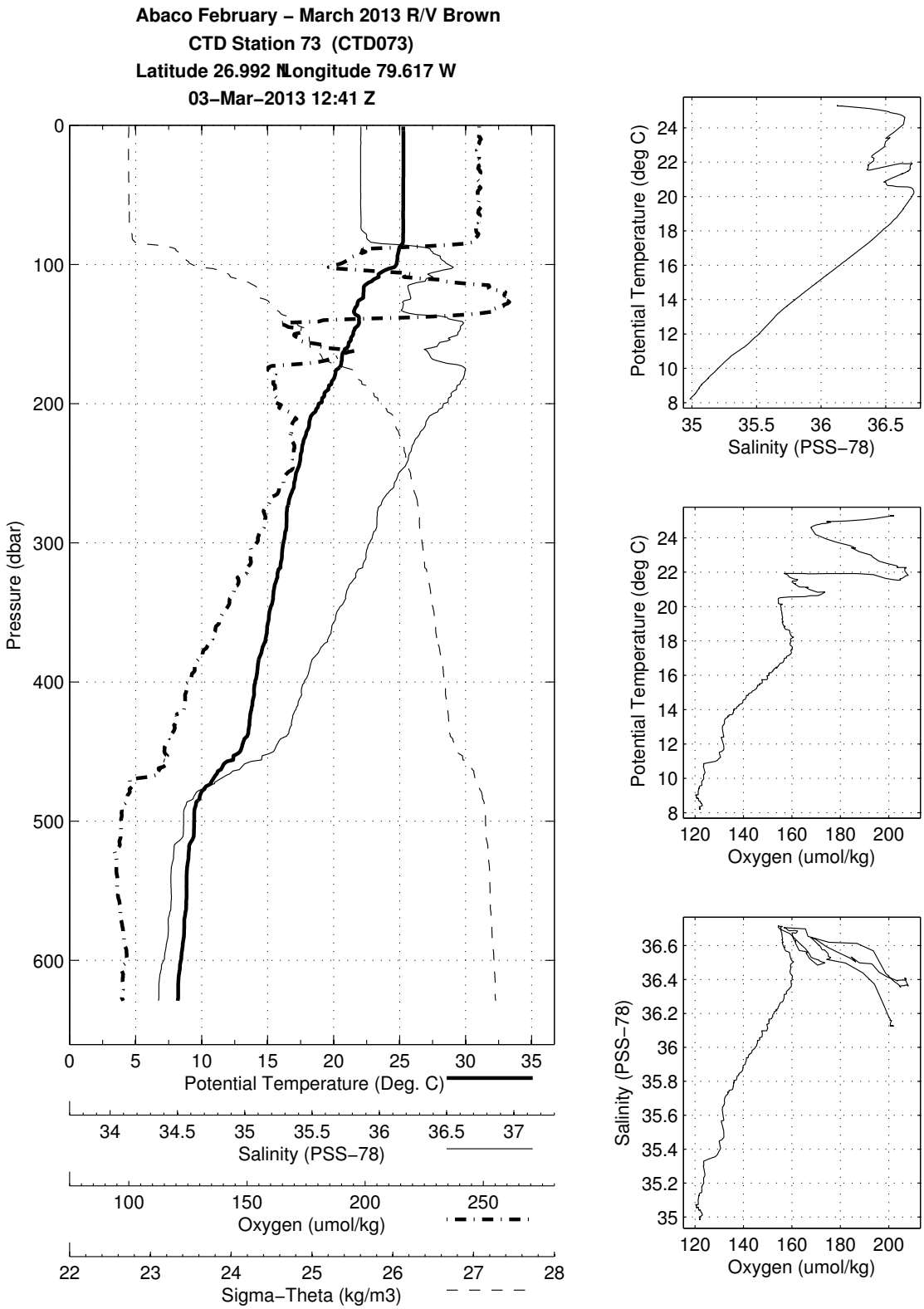
Abaco February - March 2013 R/V Brown
CTD Station 72 (CTD072)
Latitude 26.995N Longitude 79.618W
03-Mar-2013 11:29Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.283	25.283	36.124	200.7	0.004	24.104
10	25.297	25.294	36.124	201.4	0.038	24.101
20	25.295	25.291	36.125	201.3	0.076	24.102
30	25.298	25.291	36.125	201.4	0.114	24.102
50	25.305	25.294	36.131	201.8	0.191	24.106
75	25.301	25.285	36.147	201.1	0.286	24.121
100	24.096	24.074	36.666	170.3	0.373	24.881
125	22.141	22.116	36.364	209.0	0.446	25.222
150	21.442	21.412	36.672	151.9	0.511	25.654
200	19.094	19.058	36.613	156.1	0.618	26.240
250	17.373	17.331	36.371	159.4	0.704	26.487
300	16.316	16.267	36.189	152.1	0.782	26.601
400	14.156	14.097	35.815	137.2	0.927	26.796
500	9.391	9.335	35.114	121.1	1.046	27.153
600	8.410	8.346	34.999	121.5	1.145	27.221


Abaco February – March 2013 R/V Brown
CTD Station 72 (CTD072)
Latitude 26.995 N Longitude 79.618 W
03–Mar–2013 11:29 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Oxygen (umol/kg)

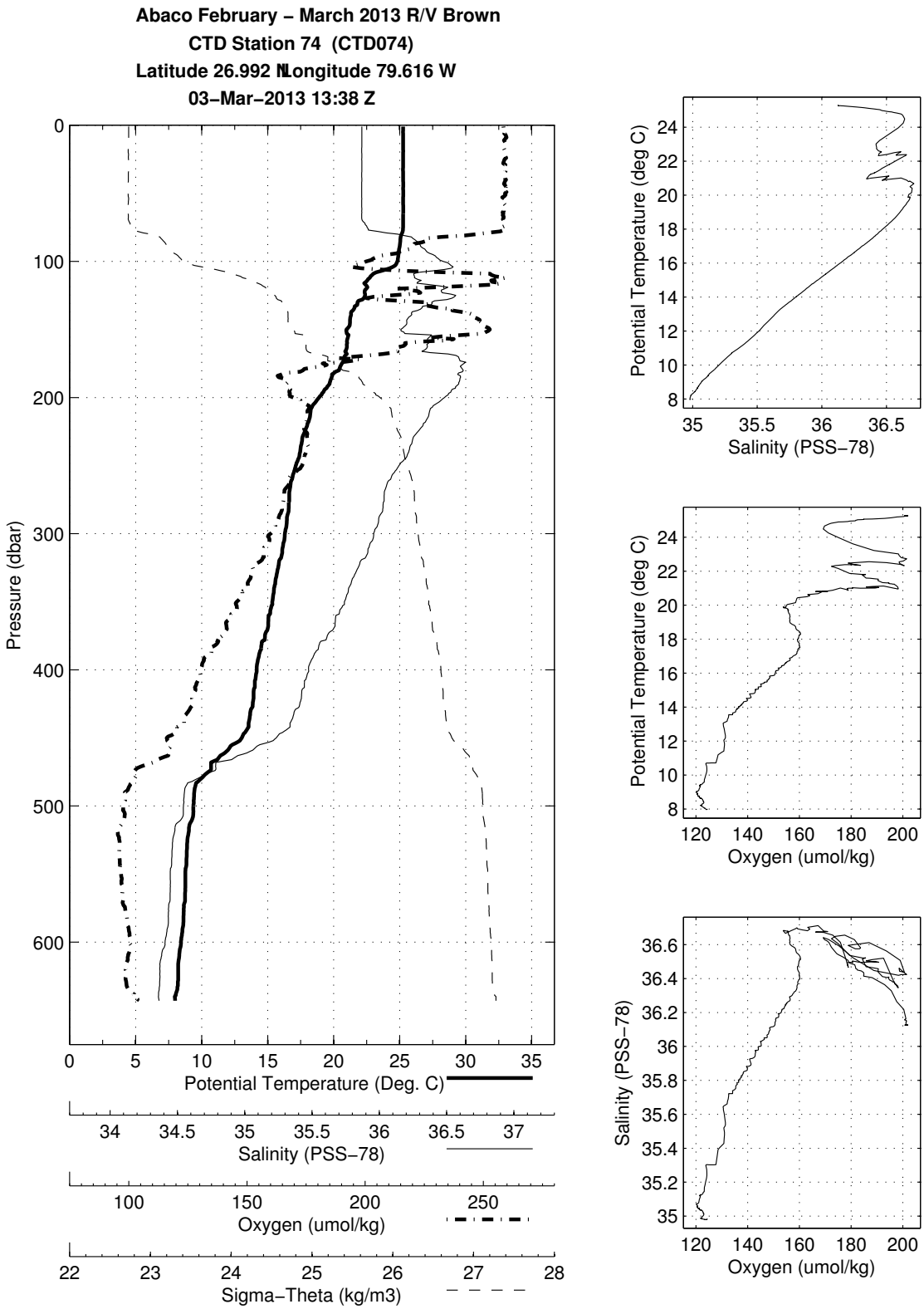
Abaco February - March 2013 R/V Brown
CTD Station 73 (CTD073)
Latitude 26.992N Longitude 79.617W
03-Mar-2013 12:41Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.281	25.281	36.127	201.3	0.004	24.107
10	25.292	25.290	36.126	201.7	0.038	24.103
20	25.289	25.284	36.125	201.2	0.076	24.105
30	25.288	25.281	36.125	201.1	0.114	24.106
50	25.288	25.277	36.126	201.0	0.191	24.108
75	25.288	25.272	36.130	200.6	0.286	24.112
100	24.763	24.741	36.621	169.8	0.376	24.646
125	22.095	22.070	36.405	206.6	0.449	25.266
150	21.518	21.489	36.675	160.2	0.513	25.635
200	18.904	18.868	36.593	156.6	0.620	26.273
250	17.185	17.143	36.340	158.6	0.704	26.508
300	16.252	16.204	36.177	151.8	0.782	26.607
400	14.114	14.055	35.806	136.6	0.927	26.799
500	9.484	9.427	35.127	121.6	1.048	27.148
600	8.501	8.436	35.016	123.0	1.147	27.220


Abaco February – March 2013 R/V Brown
CTD Station 73 (CTD073)
Latitude 26.992 N Longitude 79.617 W
03–Mar–2013 12:41 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

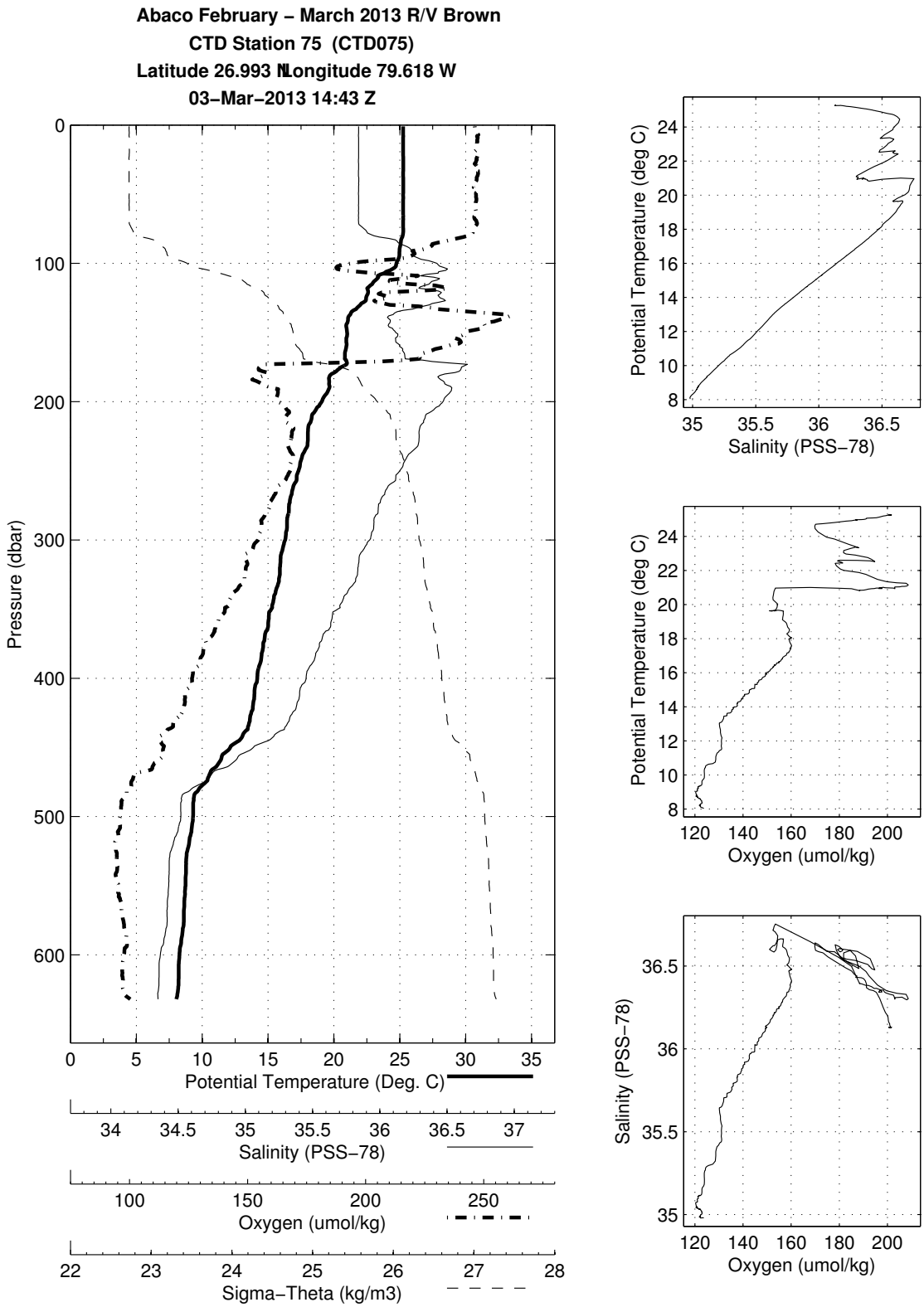
Abaco February - March 2013 R/V Brown
CTD Station 74 (CTD074)
Latitude 26.992N Longitude 79.616W
03-Mar-2013 13:38Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.257	25.256	36.127	201.1	0.004	24.114
10	25.259	25.256	36.127	201.5	0.038	24.115
20	25.269	25.264	36.126	201.6	0.076	24.111
30	25.270	25.263	36.126	201.3	0.114	24.112
50	25.281	25.270	36.126	201.5	0.190	24.110
75	25.272	25.256	36.157	200.7	0.286	24.137
100	24.847	24.826	36.585	172.4	0.374	24.593
125	22.411	22.386	36.656	177.6	0.447	25.367
150	20.989	20.960	36.346	198.3	0.512	25.530
200	18.918	18.882	36.592	157.1	0.620	26.269
250	17.169	17.127	36.336	158.9	0.705	26.510
300	16.350	16.302	36.194	152.3	0.783	26.596
400	14.224	14.164	35.827	137.5	0.928	26.791
500	9.428	9.371	35.120	121.5	1.051	27.152
600	8.497	8.432	35.017	122.8	1.149	27.221


Abaco February – March 2013 R/V Brown
CTD Station 74 (CTD074)
Latitude 26.992 N Longitude 79.616 W
03–Mar–2013 13:38 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

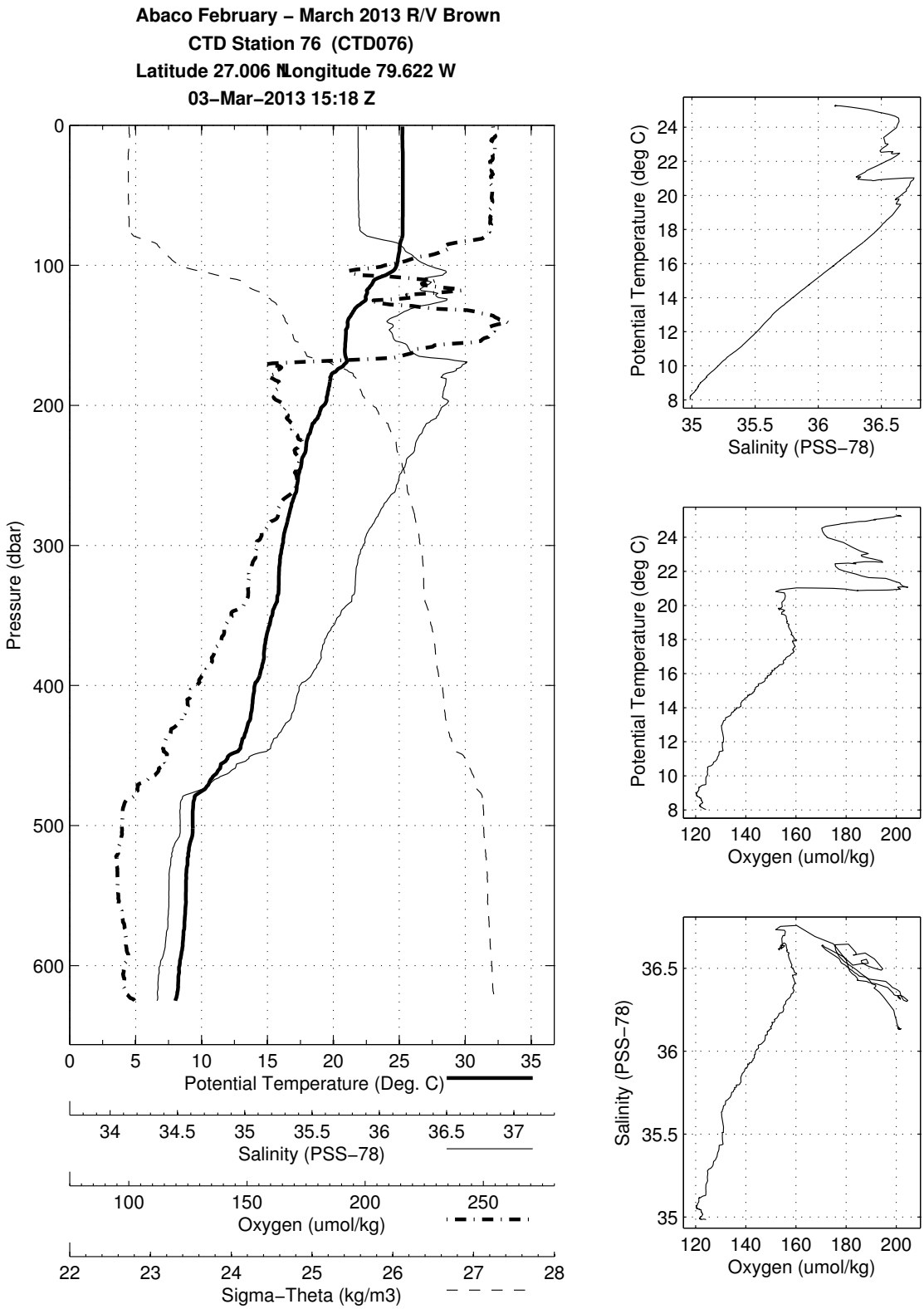
Abaco February - March 2013 R/V Brown
CTD Station 75 (CTD075)
Latitude 26.993N Longitude 79.618W
03-Mar-2013 14:43Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.258	25.258	36.130	200.8	0.004	24.116
10	25.255	25.253	36.131	201.4	0.038	24.119
20	25.257	25.253	36.131	201.3	0.076	24.118
30	25.269	25.262	36.130	201.3	0.114	24.115
50	25.268	25.257	36.130	201.1	0.190	24.117
75	25.277	25.261	36.162	200.5	0.285	24.140
100	24.764	24.742	36.579	173.2	0.375	24.614
125	22.461	22.436	36.598	181.4	0.449	25.308
150	21.025	20.996	36.344	198.7	0.514	25.519
200	19.104	19.068	36.614	156.7	0.624	26.238
250	17.358	17.316	36.367	159.5	0.709	26.488
300	16.346	16.297	36.194	152.3	0.787	26.597
400	14.248	14.189	35.830	137.5	0.933	26.788
500	9.363	9.306	35.112	121.4	1.053	27.156
600	8.339	8.276	34.995	122.3	1.150	27.228


Abaco February – March 2013 R/V Brown
CTD Station 75 (CTD075)
Latitude 26.993 N Longitude 79.618 W
03–Mar–2013 14:43 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

Abaco February - March 2013 R/V Brown
CTD Station 76 (CTD076)
Latitude 27.006N Longitude 79.622W
03-Mar-2013 15:18Z

Pressure	Temp90	PoTemp90	Salinity	Oxygen	DynHt	SigT
dbar	°C	°C	PSS-78	μmol·kg^{-1}	m^2·s^{-2}	kg·m^{-3}
1	25.247	25.247	36.134	201.4	0.004	24.123
10	25.239	25.237	36.134	201.1	0.038	24.126
20	25.276	25.272	36.135	201.1	0.076	24.116
30	25.272	25.266	36.135	201.4	0.114	24.118
50	25.279	25.268	36.135	201.2	0.190	24.117
75	25.276	25.260	36.146	200.5	0.285	24.128
100	24.821	24.799	36.533	178.1	0.375	24.561
125	22.470	22.445	36.642	175.6	0.449	25.339
150	20.972	20.943	36.332	200.7	0.513	25.524
200	19.297	19.261	36.630	156.1	0.622	26.200
250	17.378	17.336	36.371	159.0	0.708	26.486
300	16.180	16.131	36.163	150.6	0.786	26.612
400	14.087	14.028	35.802	137.6	0.932	26.801
500	9.389	9.332	35.116	121.4	1.052	27.155
600	8.402	8.338	35.000	121.8	1.150	27.223


Abaco February – March 2013 R/V Brown
CTD Station 76 (CTD076)
Latitude 27.006 N Longitude 79.622 W
03–Mar–2013 15:18 Z
Pressure (dbar)
Potential Temperature (Deg. C)
Salinity (PSS–78)
Oxygen (umol/kg)
Sigma–Theta (kg/m3)
Potential Temperature (deg C)
Salinity (PSS–78)
Potential Temperature (deg C)
Oxygen (umol/kg)
Salinity (PSS–78)
Oxygen (umol/kg)

B WOCE Summary File

Table 16: Abaco Cruise – WOCE Summary File

SHIP/CRS EXPOCODE	WOCE SECT	STN	CAST	CAST TYPE	CAST DATE	UTC TIME	EVENT CODE	LAT	LON	NAV	UNC DPH	HT ABV BTM	WIRE OUT	MAX PRS	NO. BTLS	PARA-METERS	COMMENTS
WBTSRHB	AB1302	0	1	ROS	02202013	1721	BE	21.719N	67.457W	GPS							
WBTSRHB	AB1302	0	1	ROS	02202013	1722	BO	21.724N	67.456W	GPS	1978	214	1992	2003	24	1,2	niskin 5 leaking bottom o-ring
WBTSRHB	AB1302	0	1	ROS	02202013	1845	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	1	1	ROS	02212013	2009	BE	26.501N	69.500W	GPS							
WBTSRHB	AB1302	1	1	ROS	02212013	2009	BO	26.501N	69.500W	GPS	5313	9	5320	5416	24	1,2	niskin 5 leaking bottom o-ring
WBTSRHB	AB1302	1	1	ROS	02212013	2351	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	2	1	ROS	02222013	0233	BE	26.500N	70.000W	GPS							
WBTSRHB	AB1302	2	1	ROS	02222013	0233	BO	26.502N	70.005W	GPS	5483	9	5513	5593	24	1,2	niskin 22 bottom lanyard hung up
WBTSRHB	AB1302	2	1	ROS	02222013	0630	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	3	1	ROS	02222013	0921	BE	26.501N	70.500W	GPS							
WBTSRHB	AB1302	3	1	ROS	02222013	0921	BO	26.501N	70.500W	GPS	5482	9	5511	5592	24	1,2	
WBTSRHB	AB1302	3	1	ROS	02222013	1302	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	4	1	ROS	02222013	1600	BE	26.500N	70.999W	GPS							
WBTSRHB	AB1302	4	1	ROS	02222013	1600	BO	26.500N	70.999W	GPS	5479	9	5508	5587	24	1,2	
WBTSRHB	AB1302	4	1	ROS	02222013	1946	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	5	1	ROS	02222013	2249	BE	26.501N	71.501W	GPS							
WBTSRHB	AB1302	5	1	ROS	02222013	2249	BO	26.502N	71.502W	GPS	5415	9	5444	5521	24	1,2	
WBTSRHB	AB1302	5	1	ROS	02232013	0241	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	6	1	ROS	02232013	0620	BE	26.509N	72.007W	GPS							
WBTSRHB	AB1302	6	1	ROS	02232013	0620	BO	26.512N	72.001W	GPS	5277	10	5302	5379	24	1,2	
WBTSRHB	AB1302	6	1	ROS	02232013	1002	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	7	1	ROS	02232013	1309	BE	26.500N	72.384W	GPS							
WBTSRHB	AB1302	7	1	ROS	02232013	1309	BO	26.500N	72.384W	GPS	5176	10	5203	5276	24	1,2	
WBTSRHB	AB1302	7	1	ROS	02232013	1638	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	8	1	ROS	02232013	1852	BE	26.501N	72.766W	GPS							
WBTSRHB	AB1302	8	1	ROS	02232013	1852	BO	26.504N	72.763W	GPS	5125	11	5152	5222	24	1,2	
WBTSRHB	AB1302	8	1	ROS	02232013	2238	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	9	1	ROS	02242013	0102	BE	26.500N	73.132W	GPS							
WBTSRHB	AB1302	9	1	ROS	02242013	0102	BO	26.503N	73.128W	GPS	5044	12	5073	5139	24	1,2	
WBTSRHB	AB1302	9	1	ROS	02242013	0437	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	10	1	ROS	02242013	0700	BE	26.499N	73.500W	GPS							
WBTSRHB	AB1302	10	1	ROS	02242013	0700	BO	26.501N	73.498W	GPS	4950	10	4975	5041	24	1,2	
WBTSRHB	AB1302	10	1	ROS	02242013	1024	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	11	1	ROS	02242013	1250	BE	26.499N	73.867W	GPS							
WBTSRHB	AB1302	11	1	ROS	02242013	1250	BO	26.500N	73.866W	GPS	4731	71	4757	4817	24	1,2	niskin 14 petcock leaking
WBTSRHB	AB1302	11	1	ROS	02242013	1612	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	12	1	ROS	02242013	1821	BE	26.500N	74.234W	GPS							
WBTSRHB	AB1302	12	1	ROS	02242013	1821	BO	26.500N	74.234W	GPS	4534	10	4559	4614	24	1,2	
WBTSRHB	AB1302	12	1	ROS	02242013	2141	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	13	1	ROS	02242013	2327	BE	26.500N	74.516W	GPS							
WBTSRHB	AB1302	13	1	ROS	02242013	2327	BO	26.500N	74.515W	GPS	4488	9	4518	4566	24	1,2	
WBTSRHB	AB1302	13	1	ROS	02252013	0236	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	14	1	ROS	02252013	0417	BE	26.499N	74.802W	GPS							
WBTSRHB	AB1302	14	1	ROS	02252013	0417	BO	26.504N	74.804W	GPS	4532	10	4559	4611	24	1,2	
WBTSRHB	AB1302	14	1	ROS	02252013	0732	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	15	1	ROS	02252013	0921	BE	26.499N	75.084W	GPS							
WBTSRHB	AB1302	15	1	ROS	02252013	0921	BO	26.499N	75.084W	GPS	4597	11	4625	4679	24	1,2	
WBTSRHB	AB1302	15	1	ROS	02252013	1232	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	16	1	ROS	02252013	1356	BE	26.500N	75.301W	GPS							
WBTSRHB	AB1302	16	1	ROS	02252013	1356	BO	26.500N	75.300W	GPS	4625	11	4656	4708	24	1,2	
WBTSRHB	AB1302	16	1	ROS	02252013	1708	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	17	1	ROS	02252013	1812	BE	26.501N	75.498W	GPS							
WBTSRHB	AB1302	17	1	ROS	02252013	1812	BO	26.499N	75.497W	GPS	4674	11	4705	4759	24	1,2	
WBTSRHB	AB1302	17	1	ROS	02252013	2140	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	18	1	ROS	02252013	2252	BE	26.498N	75.704W	GPS							
WBTSRHB	AB1302	18	1	ROS	02252013	2252	BO	26.499N	75.704W	GPS	4683	10	4708	4767	24	1,2	
WBTSRHB	AB1302	18	1	ROS	02262013	0218	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	19	1	ROS	02262013	0330	BE	26.503N	75.900W	GPS							
WBTSRHB	AB1302	19	1	ROS	02262013	0330	BO	26.501N	75.903W	GPS	4736	9	4762	4822	24	1,2	
WBTSRHB	AB1302	19	1	ROS	02262013	0702	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	20	1	ROS	02262013	0815	BE	26.501N	76.089W	GPS							
WBTSRHB	AB1302	20	1	ROS	02262013	0815	BO	26.502N	76.090W	GPS	4794	10	4821	4882	24	1,2	

WBTSRHB	AB1302	20	1	ROS	02262013	1130	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	21	1	ROS	02262013	1233	BE	26.501N	76.218W	GPS							
WBTSRHB	AB1302	21	1	ROS	02262013	1233	BO	26.501N	76.218W	GPS	4806	10	4836	4894	24	1,2	
WBTSRHB	AB1302	21	1	ROS	02262013	1554	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	22	1	ROS	02262013	1652	BE	26.500N	76.347W	GPS							
WBTSRHB	AB1302	22	1	ROS	02262013	1652	BO	26.500N	76.347W	GPS	4848	10	4886	4937	24	1,2	
WBTSRHB	AB1302	22	1	ROS	02262013	2014	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	23	1	ROS	02262013	2108	BE	26.500N	76.475W	GPS							
WBTSRHB	AB1302	23	1	ROS	02262013	2108	BO	26.500N	76.475W	GPS	4831	10	4876	4919	24	1,2	
WBTSRHB	AB1302	23	1	ROS	02272013	0033	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	24	1	ROS	02272013	0329	BE	26.500N	76.565W	GPS							
WBTSRHB	AB1302	24	1	ROS	02272013	0329	BO	26.502N	76.561W	GPS	4825	28	4880	4913	24	1,2	niskin 24 no water, lanyard hung up
WBTSRHB	AB1302	24	1	ROS	02272013	0653	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	25	1	ROS	02272013	0756	BE	26.508N	76.656W	GPS							
WBTSRHB	AB1302	25	1	ROS	02272013	0756	BO	26.508N	76.656W	GPS	4522	12	4547	4601	24	1,2	
WBTSRHB	AB1302	25	1	ROS	02272013	1104	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	26	1	ROS	02272013	1204	BE	26.501N	76.744W	GPS							
WBTSRHB	AB1302	26	1	ROS	02272013	1204	BO	26.501N	76.744W	GPS	3853	11	3876	3915	24	1,2	
WBTSRHB	AB1302	26	1	ROS	02272013	1456	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	27	1	ROS	02272013	1554	BE	26.517N	76.834W	GPS							
WBTSRHB	AB1302	27	1	ROS	02272013	1554	BO	26.517N	76.834W	GPS	1076	10	1085	1087	13	1,2	niskin 8 no water, lanyard hung up
WBTSRHB	AB1302	27	1	ROS	02272013	1654	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	28	1	ROS	02272013	1813	BE	26.524N	76.892W	GPS							
WBTSRHB	AB1302	28	1	ROS	02272013	1813	BO	26.524N	76.892W	GPS	327	11	326	330	7	1,2	niskin 5 leaker, bad bottom o ring
WBTSRHB	AB1302	28	1	ROS	02272013	1858	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	29	1	ROS	02282013	0756	BE	26.433N	78.669W	GPS							
WBTSRHB	AB1302	29	1	ROS	02282013	0756	BO	26.433N	78.669W	GPS	753	11	756	760	11	1,2	
WBTSRHB	AB1302	29	1	ROS	02282013	0854	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	30	1	ROS	02282013	1023	BE	26.335N	78.741W	GPS							
WBTSRHB	AB1302	30	1	ROS	02282013	1023	BO	26.335N	78.741W	GPS	670	0	671	675	11	1,2	niskin 5 leaker, bad bottom o ring
WBTSRHB	AB1302	30	1	ROS	02282013	1122	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	31	1	ROS	02282013	1230	BE	26.255N	78.770W	GPS							
WBTSRHB	AB1302	31	1	ROS	02282013	1230	BO	26.255N	78.770W	GPS	512	44	511	516	8	1,2	niskin 5 leaker, bad bottom o ring
WBTSRHB	AB1302	31	1	ROS	02282013	1308	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	32	1	ROS	02282013	1358	BE	26.167N	78.798W	GPS							
WBTSRHB	AB1302	32	1	ROS	02282013	1358	BO	26.167N	78.798W	GPS	450	11	450	454	9	1,2	
WBTSRHB	AB1302	32	1	ROS	02282013	1442	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	33	1	ROS	02282013	1530	BE	26.067N	78.849W	GPS							
WBTSRHB	AB1302	33	1	ROS	02282013	1530	BO	26.068N	78.849W	GPS	297	10	296	299	7	1,2	
WBTSRHB	AB1302	33	1	ROS	02282013	1559	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	34	1	ROS	02282013	2337	BE	26.051N	79.231W	GPS							
WBTSRHB	AB1302	34	1	ROS	02282013	2337	BO	26.051N	79.231W	GPS	318	9	317	320	7	1,2	
WBTSRHB	AB1302	34	1	ROS	03012013	0023	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	35	1	ROS	03012013	0055	BE	26.052N	79.312W	GPS							
WBTSRHB	AB1302	35	1	ROS	03012013	0055	BO	26.053N	79.312W	GPS	481	11	471	485	9	1,2	
WBTSRHB	AB1302	35	1	ROS	03012013	0139	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	36	1	ROS	03012013	0211	BE	26.053N	79.399W	GPS							
WBTSRHB	AB1302	36	1	ROS	03012013	0211	BO	26.057N	79.398W	GPS	582	8	586	587	10	1,2	niskin 10 leaker, possible bad o ring
WBTSRHB	AB1302	36	1	ROS	03012013	0258	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	37	1	ROS	03012013	0331	BE	26.053N	79.480W	GPS							
WBTSRHB	AB1302	37	1	ROS	03012013	0331	BO	26.063N	79.478W	GPS	667	10	687	674	11	1,2	
WBTSRHB	AB1302	37	1	ROS	03012013	0424	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	38	1	ROS	03012013	0607	BE	26.042N	79.562W	GPS							
WBTSRHB	AB1302	38	1	ROS	03012013	0607	BO	26.050N	79.558W	GPS	755	8	768	762	11	1,2	niskin 10 leaker, possible bad o ring
WBTSRHB	AB1302	38	1	ROS	03012013	0656	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	39	1	ROS	03012013	0758	BE	26.032N	79.675W	GPS							
WBTSRHB	AB1302	39	1	ROS	03012013	0758	BO	26.039N	79.672W	GPS	688	14	711	697	12	1,2	niskin 10 leaker, possible bad o ring
WBTSRHB	AB1302	39	1	ROS	03012013	0850	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	40	1	ROS	03012013	0954	BE	26.028N	79.771W	GPS							
WBTSRHB	AB1302	40	1	ROS	03012013	0954	BO	26.036N	79.768W	GPS	583	4	617	588	11	1,2	niskin 4 leaker, lanyard hung up
WBTSRHB	AB1302	40	1	ROS	03012013	1037	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	41	1	ROS	03012013	1123	BE	26.033N	79.849W	GPS							
WBTSRHB	AB1302	41	1	ROS	03012013	1123	BO	26.037N	79.850W	GPS	314	10	317	317	6	1,2	
WBTSRHB	AB1302	41	1	ROS	03012013	1152	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	42	1	ROS	03012013	1232	BE	26.039N	79.932W	GPS							
WBTSRHB	AB1302	42	1	ROS	03012013	1232	BO	26.038N	79.933W	GPS	248	9	246	249	5	1,2	

WBTSRHB	AB1302	42	1	ROS	03012013	1255	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	43	1	ROS	03012013	1330	BE	26.048N	80.000W	GPS							
WBTSRHB	AB1302	43	1	ROS	03012013	1330	BO	26.048N	80.001W	GPS	242	10	240	244	5	1,2	
WBTSRHB	AB1302	43	1	ROS	03012013	1354	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	44	1	ROS	03012013	1428	BE	26.050N	80.066W	GPS							
WBTSRHB	AB1302	44	1	ROS	03012013	1428	BO	26.050N	80.066W	GPS	125	9	122	126	4	1,2	
WBTSRHB	AB1302	44	1	ROS	03012013	1446	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	45	1	ROS	03012013	2051	BE	27.001N	79.933W	GPS							
WBTSRHB	AB1302	45	1	ROS	03012013	2051	BO	27.004N	79.932W	GPS	139	10	149	141	5	1,2	niskin 4 misfired
WBTSRHB	AB1302	45	1	ROS	03012013	2116	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	46	1	ROS	03012013	2135	BE	26.998N	79.868W	GPS							
WBTSRHB	AB1302	46	1	ROS	03012013	2135	BO	27.003N	79.867W	GPS	258	162	278	264	6	1,2	
WBTSRHB	AB1302	46	1	ROS	03012013	2214	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	47	1	ROS	03012013	2253	BE	26.997N	79.786W	GPS							
WBTSRHB	AB1302	47	1	ROS	03012013	2253	BO	27.004N	79.786W	GPS	369	16	375	373	8	1,2	
WBTSRHB	AB1302	47	1	ROS	03012013	2326	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	48	1	ROS	03022013	0031	BE	26.979N	79.683W	GPS							
WBTSRHB	AB1302	48	1	ROS	03022013	0031	BO	26.987N	79.683W	GPS	525	21	531	529	10	1,2	
WBTSRHB	AB1302	48	1	ROS	03022013	0117	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	49	1	ROS	03022013	0150	BE	26.991N	79.616W	GPS							
WBTSRHB	AB1302	49	1	ROS	03022013	0150	BO	27.001N	79.614W	GPS	637	14	657	643	11	1,2	
WBTSRHB	AB1302	49	1	ROS	03022013	0238	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	50	1	ROS	03022013	0322	BE	26.989N	79.499W	GPS							
WBTSRHB	AB1302	50	1	ROS	03022013	0322	BO	26.996N	79.499W	GPS	744	9	751	750	11	1,2	
WBTSRHB	AB1302	50	1	ROS	03022013	0417	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	51	1	ROS	03022013	0534	BE	26.997N	79.378W	GPS							
WBTSRHB	AB1302	51	1	ROS	03022013	0534	BO	27.003N	79.376W	GPS	682	46	686	688	11	1,2	
WBTSRHB	AB1302	51	1	ROS	03022013	0618	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	52	1	ROS	03022013	0714	BE	26.992N	79.279W	GPS							
WBTSRHB	AB1302	52	1	ROS	03022013	0714	BO	26.996N	79.276W	GPS	595	14	601	605	10	1,2	niskin 8 no water, lanyard caught
WBTSRHB	AB1302	52	1	ROS	03022013	0806	EN	-999.000N	-999.000W	GPS							
WBTSRHB	AB1302	53	1	ROS	03022013	0850	BE	26.977N	79.198W	GPS							
WBTSRHB	AB1302	53	1	ROS	03022013	0850	BO	26.977N	79.197W	GPS	483	14	490	488	9	1,2	niskin 8 no water, lanyard caught
WBTSRHB	AB1302	53	1	ROS	03022013	0927	EN	-999.000N	-999.000W	GPS							

C WOCE Bottle Summary File

Table 17: Abaco Cruise – WOCE Bottle Summary File

SHIP/CRS EXPOCODE	WOCE SECT	STN	CAST	BTL#	BTL# Flag	DATE	UTC TIME	LAT	LON	DEPTH	CTD PRS	CTD TMP	CTD SAL	SAL FLAG	BTL SAL	SAL FLAG	CTD OXY	OXY FLAG	BTL OXY	OXY FLAG
WBTSRHB	AB1302	0	1	1	2	20130220	1804	21.722N	67.457W	1977	1999	3.522	34.967	2	34.968	2	244.7	2	260.7	3
WBTSRHB	AB1302	0	1	2	2	20130220	1804	21.722N	67.457W	1977	1999	3.522	34.968	2	34.969	3	243.8	2	260.3	3
WBTSRHB	AB1302	0	1	3	2	20130220	1804	21.722N	67.457W	1977	1999	3.520	34.967	2	34.966	2	243.7	2	260.5	3
WBTSRHB	AB1302	0	1	4	2	20130220	1804	21.722N	67.457W	1977	1999	3.517	34.966	2	34.966	2	243.9	2	260.7	3
WBTSRHB	AB1302	0	1	5	2	20130220	1804	21.722N	67.457W	1978	1999	3.516	34.966	2	34.965	2	243.8	2	260.9	3
WBTSRHB	AB1302	0	1	6	2	20130220	1804	21.722N	67.457W	1978	2000	3.515	34.966	2	34.966	2	243.8	2	261.3	3
WBTSRHB	AB1302	0	1	7	2	20130220	1804	21.722N	67.457W	1978	1999	3.513	34.966	2	34.967	2	244.0	2	261.0	3
WBTSRHB	AB1302	0	1	8	2	20130220	1804	21.722N	67.457W	1978	2000	3.512	34.966	2	34.965	2	243.9	2	261.0	3
WBTSRHB	AB1302	0	1	9	2	20130220	1804	21.722N	67.457W	1978	2000	3.512	34.966	2	34.965	2	244.0	2	261.0	3
WBTSRHB	AB1302	0	1	10	2	20130220	1804	21.722N	67.457W	1978	2000	3.512	34.966	2	34.965	2	244.0	2	261.4	3
WBTSRHB	AB1302	0	1	11	2	20130220	1804	21.722N	67.457W	1978	2000	3.512	34.966	2	34.965	2	243.9	2	261.3	3
WBTSRHB	AB1302	0	1	12	2	20130220	1804	21.722N	67.457W	1978	2000	3.512	34.966	2	34.965	2	243.9	2	261.3	3
WBTSRHB	AB1302	0	1	13	2	20130220	1804	21.722N	67.457W	1978	2000	3.512	34.968	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	14	2	20130220	1804	21.722N	67.457W	1978	2000	3.511	34.968	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	15	2	20130220	1804	21.722N	67.457W	1978	2000	3.511	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	16	2	20130220	1804	21.722N	67.457W	1978	2000	3.511	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	17	2	20130220	1804	21.722N	67.457W	1979	2001	3.511	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	18	2	20130220	1804	21.722N	67.457W	1979	2001	3.511	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	19	2	20130220	1804	21.722N	67.457W	1979	2001	3.510	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	20	2	20130220	1804	21.722N	67.457W	1979	2001	3.511	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	21	2	20130220	1804	21.722N	67.457W	1979	2001	3.511	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	22	2	20130220	1804	21.722N	67.457W	1979	2001	3.510	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	23	2	20130220	1804	21.722N	67.457W	1979	2001	3.510	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	0	1	24	2	20130220	1804	21.722N	67.457W	1979	2001	3.510	34.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	1	1	1	2	20130221	2151	26.501N	69.500W	5313	5415	2.112	34.851	2	34.852	2	252.8	2	251.2	2
WBTSRHB	AB1302	1	1	2	2	20130221	2151	26.501N	69.500W	4987	5079	2.253	34.874	2	34.874	2	260.6	2	259.6	2
WBTSRHB	AB1302	1	1	3	2	20130221	2151	26.501N	69.500W	4645	4728	2.275	34.881	2	34.882	2	263.8	2	263.2	2
WBTSRHB	AB1302	1	1	4	2	20130221	2151	26.501N	69.500W	4305	4378	2.281	34.886	2	34.886	2	265.8	2	265.2	2
WBTSRHB	AB1302	1	1	5	2	20130221	2151	26.501N	69.500W	3968	4032	2.304	34.891	2	34.891	2	267.8	2	267.3	2
WBTSRHB	AB1302	1	1	6	2	20130221	2151	26.501N	69.500W	3461	3513	2.414	34.902	2	34.902	2	269.0	2	268.7	2
WBTSRHB	AB1302	1	1	7	2	20130221	2151	26.501N	69.500W	2953	2994	2.700	34.921	2	34.921	2	267.2	2	266.4	2
WBTSRHB	AB1302	1	1	8	2	20130221	2151	26.501N	69.500W	2448	2479	3.134	34.949	2	34.949	2	263.5	2	262.3	2
WBTSRHB	AB1302	1	1	9	2	20130221	2151	26.501N	69.500W	1942	1964	3.609	34.968	2	34.969	2	263.8	2	261.9	2
WBTSRHB	AB1302	1	1	10	2	20130221	2151	26.501N	69.500W	1686	1704	3.965	34.987	2	34.987	2	260.4	2	258.7	2
WBTSRHB	AB1302	1	1	11	2	20130221	2151	26.501N	69.500W	1346	1359	4.681	35.031	2	35.032	2	247.6	2	245.9	2
WBTSRHB	AB1302	1	1	12	2	20130221	2151	26.501N	69.500W	1178	1189	5.402	35.067	2	35.067	3	227.2	2	226.8	2
WBTSRHB	AB1302	1	1	13	2	20130221	2151	26.501N	69.500W	1010	1019	6.782	35.084	2	35.085	2	183.7	2	183.9	2
WBTSRHB	AB1302	1	1	14	2	20130221	2151	26.501N	69.500W	881	889	8.619	35.166	2	35.167	2	149.4	2	149.6	2
WBTSRHB	AB1302	1	1	15	2	20130221	2151	26.501N	69.500W	792	799	10.556	35.378	2	35.380	2	148.5	2	147.6	2
WBTSRHB	AB1302	1	1	16	2	20130221	2151	26.501N	69.500W	683	689	13.128	35.710	2	35.707	2	156.6	2	153.9	2
WBTSRHB	AB1302	1	1	17	2	20130221	2151	26.501N	69.500W	574	578	15.700	36.130	2	36.127	2	183.5	2	183.3	2
WBTSRHB	AB1302	1	1	18	2	20130221	2151	26.501N	69.500W	466	469	17.268	36.422	2	36.423	2	197.3	2	196.7	2
WBTSRHB	AB1302	1	1	19	2	20130221	2151	26.501N	69.500W	357	360	18.089	36.558	2	36.558	2	198.5	2	198.6	2
WBTSRHB	AB1302	1	1	20	2	20130221	2151	26.501N	69.500W	257	258	18.985	36.627	2	36.629	6	190.1	2	190.2	2
WBTSRHB	AB1302	1	1	21	2	20130221	2151	26.501N	69.500W	177	178	20.458	36.695	2	36.699	2	198.6	2	196.9	2
WBTSRHB	AB1302	1	1	22	2	20130221	2151	26.501N	69.500W	102	103	22.621	36.687	2	36.688	2	216.2	2	215.2	2
WBTSRHB	AB1302	1	1	23	2	20130221	2151	26.501N	69.500W	54	54	23.222	36.675	2	36.676	2	213.6	2	212.9	2
WBTSRHB	AB1302	1	1	24	2	20130221	2151	26.501N	69.500W	3	3	23.275	36.653	2	36.654	2	200.7	2	217.9	3
WBTSRHB	AB1302	2	1	1	2	20130222	0428	26.501N	70.002W	5483	5591	2.163	34.855	2	34.855	2	253.9	2	252.7	6
WBTSRHB	AB1302	2	1	2	2	20130222	0428	26.501N	70.002W	5044	5138	2.265	34.874	2	34.876	2	260.3	2	260.1	2
WBTSRHB	AB1302	2	1	3	2	20130222	0428	26.501N	70.002W	4617	4699	2.291	34.883	2	34.882	2	241.1	2	265.5	3
WBTSRHB	AB1302	2	1	4	2	20130222	0428	26.501N	70.002W	4189	4258	2.303	34.889	2	34.889	2	243.6	2	267.5	3
WBTSRHB	AB1302	2	1	5	2	20130222	0428	26.501N	70.002W	3765	3824	2.350	34.896	2	34.895	2	245.6	2	270.6	3
WBTSRHB	AB1302	2	1	6	2	20130222	0428	26.501N	70.002W	3257	3304	2.539	34.910	2	34.910	2	267.7	2	268.0	2
WBTSRHB	AB1302	2	1	7	2	20130222	0428	26.501N	70.002W	2752	2789	2.864	34.931	2	34.932	2	264.8	2	265.1	2
WBTSRHB	AB1302	2	1	8	2	20130222	0428	26.501N	70.002W	2243	2270	3.308	34.953	2	34.953	2	264.0	2	263.8	2
WBTSRHB	AB1302	2	1	9	2	20130222	0428	26.501N	70.002W	1833	1854	3.808	34.982	2	34.983	2	261.2	2	260.3	2
WBTSRHB	AB1302	2	1	10	2	20130222	0428	26.501N	70.002W	1583	1600	4.152	34.991	2	34.992	2	256.2	2	257.3	2
WBTSRHB	AB1302	2	1	11	2	20130222	0428	26.501N	70.002W	1360	1373	4.587	35.018	2	35.018	2	248.7	2	247.7	2
WBTSRHB	AB1302	2	1	12	2	20130222	0428	26.501N	70.002W	1193	1204	5.276	35.059	2	35.060	2	229.8	2	230.5	2
WBTSRHB	AB1302	2	1	13	2	20130222	0428	26.501N	70.002W	1025	1034	6.447	35.079	2	35.082	4	189.7	2	191.1	2
WBTSRHB	AB1302	2	1	14	2	20130222	0428	26.501N	70.002W	916	924	7.543	35.101	2	35.102	2	163.0	2	164.6	2

WBTSRHB	AB1302	2	1	15	2	20130222	0428	26.501N	70.002W	808	815	9.591	35.245	2	35.246	2	142.6	2	142.1	2
WBTSRHB	AB1302	2	1	16	2	20130222	0428	26.501N	70.002W	698	704	12.198	35.591	2	35.594	2	157.4	2	157.5	2
WBTSRHB	AB1302	2	1	17	2	20130222	0428	26.501N	70.002W	589	594	14.665	35.952	2	35.949	2	163.7	2	169.8	3
WBTSRHB	AB1302	2	1	18	2	20130222	0428	26.501N	70.002W	481	485	16.780	36.325	2	36.326	2	187.4	2	188.7	2
WBTSRHB	AB1302	2	1	19	2	20130222	0428	26.501N	70.002W	371	374	17.846	36.526	2	36.527	6	199.8	2	200.3	2
WBTSRHB	AB1302	2	1	20	2	20130222	0428	26.501N	70.002W	262	263	18.518	36.606	2	36.604	2	192.7	2	193.0	2
WBTSRHB	AB1302	2	1	21	2	20130222	0428	26.501N	70.002W	163	164	20.092	36.657	2	36.657	2	179.0	2	200.4	3
WBTSRHB	AB1302	2	1	22	2	20130222	0428	26.501N	70.002W	94	95	23.026	36.710	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	2	1	23	2	20130222	0428	26.501N	70.002W	43	43	23.496	36.652	2	36.653	2	212.8	2	212.8	2
WBTSRHB	AB1302	2	1	24	2	20130222	0428	26.501N	70.002W	3	3	23.774	36.580	2	36.582	2	211.7	2	211.3	2
WBTSRHB	AB1302	3	1	1	2	20130222	1102	26.501N	70.500W	5482	5590	2.116	34.849	2	34.850	2	251.8	2	251.3	6
WBTSRHB	AB1302	3	1	2	2	20130222	1102	26.501N	70.500W	5083	5178	2.202	34.867	2	34.866	2	257.1	2	257.2	2
WBTSRHB	AB1302	3	1	3	2	20130222	1102	26.501N	70.500W	4696	4780	2.275	34.880	2	34.880	2	239.3	2	263.6	3
WBTSRHB	AB1302	3	1	4	2	20130222	1102	26.501N	70.500W	4315	4388	2.286	34.886	2	34.886	6	242.0	2	266.3	3
WBTSRHB	AB1302	3	1	5	2	20130222	1102	26.501N	70.500W	3935	3999	2.324	34.893	2	34.893	2	244.4	2	268.3	3
WBTSRHB	AB1302	3	1	6	2	20130222	1102	26.501N	70.500W	3447	3499	2.478	34.907	2	34.907	2	265.1	2	265.9	2
WBTSRHB	AB1302	3	1	7	2	20130222	1102	26.501N	70.500W	2958	2998	2.773	34.929	2	34.929	2	259.7	2	261.4	2
WBTSRHB	AB1302	3	1	8	2	20130222	1102	26.501N	70.500W	2468	2499	3.147	34.948	2	34.949	2	262.7	2	263.1	2
WBTSRHB	AB1302	3	1	9	2	20130222	1102	26.501N	70.500W	1976	1999	3.636	34.972	2	34.971	2	261.9	2	262.0	2
WBTSRHB	AB1302	3	1	10	2	20130222	1102	26.501N	70.500W	1651	1669	4.060	34.992	2	34.992	2	258.0	2	259.0	2
WBTSRHB	AB1302	3	1	11	2	20130222	1102	26.501N	70.500W	1445	1459	4.435	35.010	2	35.010	2	252.1	2	253.0	2
WBTSRHB	AB1302	3	1	12	2	20130222	1102	26.501N	70.500W	1267	1280	4.929	35.040	2	35.040	2	241.6	2	241.8	2
WBTSRHB	AB1302	3	1	13	2	20130222	1102	26.501N	70.500W	1089	1099	5.714	35.068	2	35.068	2	217.0	2	217.1	2
WBTSRHB	AB1302	3	1	14	2	20130222	1102	26.501N	70.500W	926	934	7.081	35.083	2	35.084	2	175.5	2	175.6	2
WBTSRHB	AB1302	3	1	15	2	20130222	1102	26.501N	70.500W	816	823	9.001	35.196	2	35.197	2	145.5	2	146.0	2
WBTSRHB	AB1302	3	1	16	2	20130222	1102	26.501N	70.500W	708	714	11.837	35.525	2	35.521	2	151.2	2	150.6	2
WBTSRHB	AB1302	3	1	17	2	20130222	1102	26.501N	70.500W	600	605	14.302	35.890	2	35.891	2	167.8	2	167.6	2
WBTSRHB	AB1302	3	1	18	2	20130222	1102	26.501N	70.500W	491	494	16.373	36.248	2	36.250	2	185.1	2	186.3	2
WBTSRHB	AB1302	3	1	19	2	20130222	1102	26.501N	70.500W	382	384	17.682	36.497	2	36.499	2	197.4	2	198.0	2
WBTSRHB	AB1302	3	1	20	2	20130222	1102	26.501N	70.500W	272	274	18.371	36.587	2	36.588	2	193.6	2	194.7	2
WBTSRHB	AB1302	3	1	21	2	20130222	1102	26.501N	70.500W	182	183	19.375	36.638	2	36.639	2	193.9	2	192.0	2
WBTSRHB	AB1302	3	1	22	2	20130222	1102	26.501N	70.500W	113	114	21.209	36.667	2	36.672	2	207.2	2	206.9	2
WBTSRHB	AB1302	3	1	23	2	20130222	1102	26.501N	70.500W	64	64	22.363	36.706	2	36.707	2	213.0	2	215.4	2
WBTSRHB	AB1302	3	1	24	2	20130222	1102	26.501N	70.500W	3	3	23.175	36.596	2	36.593	2	212.6	2	213.0	2
WBTSRHB	AB1302	4	1	1	2	20130222	1747	26.500N	70.999W	5479	5587	2.142	34.852	2	34.852	2	252.2	2	252.0	6
WBTSRHB	AB1302	4	1	2	2	20130222	1747	26.500N	70.999W	5152	5249	2.283	34.874	2	34.874	2	260.3	2	260.3	2
WBTSRHB	AB1302	4	1	3	2	20130222	1747	26.500N	70.999W	4826	4913	2.307	34.882	2	34.882	2	263.5	2	264.4	2
WBTSRHB	AB1302	4	1	4	2	20130222	1747	26.500N	70.999W	4500	4578	2.307	34.886	2	34.884	2	265.0	2	265.7	2
WBTSRHB	AB1302	4	1	5	2	20130222	1747	26.500N	70.999W	4178	4248	2.324	34.890	2	34.889	2	266.7	2	268.0	2
WBTSRHB	AB1302	4	1	6	2	20130222	1747	26.500N	70.999W	3692	3749	2.394	34.898	2	34.897	2	268.2	2	269.6	2
WBTSRHB	AB1302	4	1	7	2	20130222	1747	26.500N	70.999W	3203	3249	2.651	34.915	2	34.914	2	267.3	2	268.7	2
WBTSRHB	AB1302	4	1	8	2	20130222	1747	26.500N	70.999W	2713	2748	3.003	34.935	2	34.933	2	264.8	2	266.5	2
WBTSRHB	AB1302	4	1	9	2	20130222	1747	26.500N	70.999W	2222	2248	3.394	34.952	2	34.951	2	264.3	2	264.8	2
WBTSRHB	AB1302	4	1	10	2	20130222	1747	26.500N	70.999W	1780	1799	3.801	34.967	2	34.966	2	262.5	2	262.9	2
WBTSRHB	AB1302	4	1	11	2	20130222	1747	26.500N	70.999W	1385	1399	4.445	35.004	2	35.003	2	252.5	2	252.9	2
WBTSRHB	AB1302	4	1	12	2	20130222	1747	26.500N	70.999W	1176	1187	5.098	35.038	2	35.037	2	235.4	2	236.1	2
WBTSRHB	AB1302	4	1	13	2	20130222	1747	26.500N	70.999W	1033	1042	6.096	35.076	2	35.076	6	201.9	2	203.6	2
WBTSRHB	AB1302	4	1	14	2	20130222	1747	26.500N	70.999W	891	899	8.147	35.165	2	35.166	2	160.7	2	161.8	2
WBTSRHB	AB1302	4	1	15	2	20130222	1747	26.500N	70.999W	783	790	10.164	35.332	2	35.331	2	148.8	2	148.9	2
WBTSRHB	AB1302	4	1	16	2	20130222	1747	26.500N	70.999W	694	699	12.218	35.581	2	35.583	2	154.7	2	153.6	2
WBTSRHB	AB1302	4	1	17	2	20130222	1747	26.500N	70.999W	584	589	14.770	35.966	2	35.966	2	158.1	2	171.3	3
WBTSRHB	AB1302	4	1	18	2	20130222	1747	26.500N	70.999W	476	480	16.843	36.338	2	36.338	2	190.1	2	190.4	2
WBTSRHB	AB1302	4	1	19	2	20130222	1747	26.500N	70.999W	367	370	17.819	36.520	2	36.521	2	198.9	2	199.2	2
WBTSRHB	AB1302	4	1	20	2	20130222	1747	26.500N	70.999W	257	259	18.505	36.606	2	36.606	2	190.8	2	191.4	2
WBTSRHB	AB1302	4	1	21	2	20130222	1747	26.500N	70.999W	158	159	20.453	36.703	2	36.703	2	195.9	2	196.2	2
WBTSRHB	AB1302	4	1	22	2	20130222	1747	26.500N	70.999W	100	100	22.409	36.706	2	36.709	2	210.2	2	208.3	2
WBTSRHB	AB1302	4	1	23	2	20130222	1747	26.500N	70.999W	49	50	22.999	36.658	2	36.659	2	211.5	2	213.5	2
WBTSRHB	AB1302	4	1	24	2	20130222	1747	26.500N	70.999W	3	3	23.776	36.636	2	36.635	2	211.5	2	211.3	2
WBTSRHB	AB1302	5	1	1	2	20130223	0043	26.501N	71.501W	5415	5520	2.110	34.851	2	34.852	4	251.2	2	249.4	2
WBTSRHB	AB1302	5	1	2	2	20130223	0043	26.501N	71.501W	5031	5125	2.286	34.879	2	34.879	3	260.9	2	260.2	6
WBTSRHB	AB1302	5	1	3	2	20130223	0043	26.501N	71.501W	4646	4729	2.303	34.886	2	34.886	4	264.1	2	263.8	2
WBTSRHB	AB1302	5	1	4	2	20130223	0043	26.501N	71.501W	4267	4339	2.314	34.890	2	34.891	4	265.8	2	265.9	2
WBTSRHB	AB1302	5	1	5	2	20130223	0043	26.501N	71.501W	3886	3948	2.353	34.896	2	34.896	4	267.5	2	267.9	2
WBTSRHB	AB1302	5	1	6	2	20130223	0043	26.501N	71.501W	3398	3449	2.533	34.910	2	34.911	4	267.8	2	268.1	2
WBTSRHB	AB1302	5	1	7	2	20130223	0043	26.501N	71.501W	2909	2949	2.874	34.930	2	34.937	4	265.3	2	265.4	2
WBTSRHB	AB1302	5	1	8	2	20130223	0043	26.501N	71.501W	2419	2449	3.275	34.949	2	34.950	2	263.3	2	263.3	2

WBTSRHB	AB1302	5	1	9	2	20130223	0043	26.501N	71.501W	1927	1949	3.703	34.966	2	34.967	2	262.4	2	261.9	2
WBTSRHB	AB1302	5	1	10	2	20130223	0043	26.501N	71.501W	1583	1600	4.111	34.986	2	34.988	2	258.7	2	258.3	2
WBTSRHB	AB1302	5	1	11	2	20130223	0043	26.501N	71.501W	1430	1444	4.423	35.009	2	35.009	3	251.2	2	250.8	2
WBTSRHB	AB1302	5	1	12	2	20130223	0043	26.501N	71.501W	1262	1275	4.789	35.019	2	35.021	2	243.6	2	243.2	2
WBTSRHB	AB1302	5	1	13	2	20130223	0043	26.501N	71.501W	1094	1104	5.719	35.063	2	35.064	3	202.4	2	218.7	3
WBTSRHB	AB1302	5	1	14	2	20130223	0043	26.501N	71.501W	940	948	7.444	35.098	2	35.099	2	165.9	2	165.8	2
WBTSRHB	AB1302	5	1	15	2	20130223	0043	26.501N	71.501W	832	839	8.988	35.188	2	35.189	2	144.2	2	146.1	2
WBTSRHB	AB1302	5	1	16	2	20130223	0043	26.501N	71.501W	722	728	11.313	35.453	2	35.449	2	142.8	2	142.2	2
WBTSRHB	AB1302	5	1	17	2	20130223	0043	26.501N	71.501W	614	619	13.441	35.759	2	35.759	2	157.3	2	157.3	2
WBTSRHB	AB1302	5	1	18	2	20130223	0043	26.501N	71.501W	505	509	16.046	36.187	2	36.189	2	175.8	2	174.9	2
WBTSRHB	AB1302	5	1	19	2	20130223	0043	26.501N	71.501W	398	401	17.481	36.454	2	36.457	2	193.5	2	193.2	2
WBTSRHB	AB1302	5	1	20	2	20130223	0043	26.501N	71.501W	287	289	18.245	36.572	2	36.574	2	193.9	2	192.7	2
WBTSRHB	AB1302	5	1	21	2	20130223	0043	26.501N	71.501W	199	200	19.567	36.683	2	36.687	2	180.5	2	186.9	3
WBTSRHB	AB1302	5	1	22	2	20130223	0043	26.501N	71.501W	118	119	21.615	36.710	2	36.700	2	208.7	2	208.1	2
WBTSRHB	AB1302	5	1	23	2	20130223	0043	26.501N	71.501W	68	69	22.291	36.691	2	36.692	2	215.0	2	218.0	2
WBTSRHB	AB1302	5	1	24	2	20130223	0043	26.501N	71.501W	3	3	22.936	36.668	2	36.671	2	213.9	2	215.7	2
WBTSRHB	AB1302	6	1	1	2	20130223	0803	26.511N	72.003W	5277	5378	2.109	34.854	2	34.855	4	252.0	2	251.1	6
WBTSRHB	AB1302	6	1	2	2	20130223	0803	26.511N	72.003W	4958	5049	2.280	34.879	2	34.879	3	261.0	2	260.3	2
WBTSRHB	AB1302	6	1	3	2	20130223	0803	26.511N	72.003W	4651	4733	2.294	34.885	2	34.885	3	263.6	2	263.4	2
WBTSRHB	AB1302	6	1	4	2	20130223	0803	26.511N	72.003W	4345	4419	2.301	34.886	2	34.888	2	265.2	2	265.2	2
WBTSRHB	AB1302	6	1	5	2	20130223	0803	26.511N	72.003W	4033	4098	2.332	34.892	2	34.892	2	266.8	2	266.9	2
WBTSRHB	AB1302	6	1	6	2	20130223	0803	26.511N	72.003W	3545	3599	2.472	34.905	2	34.905	3	268.6	2	269.7	2
WBTSRHB	AB1302	6	1	7	2	20130223	0803	26.511N	72.003W	3056	3099	2.840	34.927	2	34.928	2	264.2	2	265.2	2
WBTSRHB	AB1302	6	1	8	2	20130223	0803	26.511N	72.003W	2567	2599	3.117	34.941	2	34.943	2	263.9	2	263.8	2
WBTSRHB	AB1302	6	1	9	2	20130223	0803	26.511N	72.003W	2075	2099	3.567	34.959	2	34.959	3	263.6	2	262.9	2
WBTSRHB	AB1302	6	1	10	2	20130223	0803	26.511N	72.003W	1680	1698	3.969	34.977	2	34.979	4	259.9	2	259.4	2
WBTSRHB	AB1302	6	1	11	2	20130223	0803	26.511N	72.003W	1400	1414	4.514	35.006	2	35.008	2	249.8	2	249.8	2
WBTSRHB	AB1302	6	1	12	2	20130223	0803	26.511N	72.003W	1227	1239	5.156	35.046	2	35.051	4	232.9	2	233.3	2
WBTSRHB	AB1302	6	1	13	2	20130223	0803	26.511N	72.003W	1054	1064	6.473	35.073	2	35.075	2	177.7	2	192.4	3
WBTSRHB	AB1302	6	1	14	2	20130223	0803	26.511N	72.003W	900	908	8.173	35.107	2	35.106	2	146.5	2	146.5	2
WBTSRHB	AB1302	6	1	15	2	20130223	0803	26.511N	72.003W	792	798	10.040	35.295	2	35.298	2	140.3	2	140.3	2
WBTSRHB	AB1302	6	1	16	2	20130223	0803	26.511N	72.003W	683	689	12.385	35.605	2	35.605	2	148.4	2	150.1	2
WBTSRHB	AB1302	6	1	17	2	20130223	0803	26.511N	72.003W	573	578	14.802	35.974	2	35.974	2	162.8	2	165.1	2
WBTSRHB	AB1302	6	1	18	2	20130223	0803	26.511N	72.003W	466	470	16.946	36.350	2	36.359	2	185.1	2	188.5	2
WBTSRHB	AB1302	6	1	19	2	20130223	0803	26.511N	72.003W	357	359	18.021	36.546	2	36.547	2	195.8	2	196.4	2
WBTSRHB	AB1302	6	1	20	2	20130223	0803	26.511N	72.003W	247	249	18.819	36.632	2	36.639	2	187.3	2	189.3	2
WBTSRHB	AB1302	6	1	21	2	20130223	0803	26.511N	72.003W	158	159	20.625	36.701	2	36.705	2	200.1	2	198.9	2
WBTSRHB	AB1302	6	1	22	2	20130223	0803	26.511N	72.003W	93	93	22.715	36.690	2	36.692	2	210.7	2	210.3	2
WBTSRHB	AB1302	6	1	23	2	20130223	0803	26.511N	72.003W	43	43	23.864	36.577	2	36.589	2	209.4	2	209.7	2
WBTSRHB	AB1302	6	1	24	2	20130223	0803	26.511N	72.003W	4	4	23.995	36.503	2	36.503	2	208.7	2	209.1	2
WBTSRHB	AB1302	7	1	1	2	20130223	1446	26.500N	72.384W	5176	5274	2.156	34.858	2	34.859	2	254.1	2	253.8	2
WBTSRHB	AB1302	7	1	2	2	20130223	1446	26.500N	72.384W	4812	4899	2.289	34.880	2	34.880	2	262.6	2	264.1	2
WBTSRHB	AB1302	7	1	3	2	20130223	1446	26.500N	72.384W	4471	4549	2.288	34.884	2	34.884	2	264.0	2	264.3	6
WBTSRHB	AB1302	7	1	4	2	20130223	1446	26.500N	72.384W	4130	4199	2.300	34.889	2	34.888	2	265.8	2	265.9	2
WBTSRHB	AB1302	7	1	5	2	20130223	1446	26.500N	72.384W	3789	3849	2.347	34.894	2	34.893	2	267.8	2	267.9	2
WBTSRHB	AB1302	7	1	6	2	20130223	1446	26.500N	72.384W	3301	3349	2.580	34.911	2	34.910	2	266.6	2	267.3	2
WBTSRHB	AB1302	7	1	7	2	20130223	1446	26.500N	72.384W	2811	2849	2.943	34.931	2	34.931	2	264.8	2	265.4	2
WBTSRHB	AB1302	7	1	8	2	20130223	1446	26.500N	72.384W	2320	2348	3.334	34.950	2	34.950	2	263.4	2	263.2	2
WBTSRHB	AB1302	7	1	9	2	20130223	1446	26.500N	72.384W	1829	1849	3.855	34.970	2	34.970	6	261.0	2	260.9	2
WBTSRHB	AB1302	7	1	10	2	20130223	1446	26.500N	72.384W	1582	1599	4.166	34.988	2	34.988	2	256.4	2	257.4	2
WBTSRHB	AB1302	7	1	11	2	20130223	1446	26.500N	72.384W	1361	1374	4.759	35.020	2	35.020	2	243.7	2	243.9	2
WBTSRHB	AB1302	7	1	12	2	20130223	1446	26.500N	72.384W	1193	1204	5.520	35.058	2	35.058	2	215.6	2	217.0	2
WBTSRHB	AB1302	7	1	13	2	20130223	1446	26.500N	72.384W	1025	1035	6.873	35.041	2	35.042	2	165.3	2	165.9	2
WBTSRHB	AB1302	7	1	14	2	20130223	1446	26.500N	72.384W	916	924	8.036	35.097	2	35.096	2	145.7	2	145.3	2
WBTSRHB	AB1302	7	1	15	2	20130223	1446	26.500N	72.384W	808	814	9.864	35.274	2	35.268	2	140.7	2	140.3	2
WBTSRHB	AB1302	7	1	16	2	20130223	1446	26.500N	72.384W	698	704	12.330	35.594	2	35.588	2	146.9	2	145.8	2
WBTSRHB	AB1302	7	1	17	2	20130223	1446	26.500N	72.384W	589	593	14.615	35.945	2	35.941	2	160.8	2	162.8	2
WBTSRHB	AB1302	7	1	18	2	20130223	1446	26.500N	72.384W	481	484	16.907	36.343	2	36.332	2	185.1	2	184.7	2
WBTSRHB	AB1302	7	1	19	2	20130223	1446	26.500N	72.384W	371	374	17.912	36.531	2	36.529	2	196.7	2	197.0	2
WBTSRHB	AB1302	7	1	20	2	20130223	1446	26.500N	72.384W	263	265	18.787	36.630	2	36.628	2	188.7	2	190.1	2
WBTSRHB	AB1302	7	1	21	2	20130223	1446	26.500N	72.384W	174	175	20.667	36.724	2	36.722	2	195.2	2	194.7	2
WBTSRHB	AB1302	7	1	22	2	20130223	1446	26.500N	72.384W	113	114	22.974	36.811	2	36.812	2	194.4	2	190.5	2
WBTSRHB	AB1302	7	1	23	2	20130223	1446	26.500N	72.384W	63	64	23.698	36.601	2	36.600	2	208.7	2	209.4	2
WBTSRHB	AB1302	7	1	24	2	20130223	1446	26.500N	72.384W	3	3	23.869	36.562	2	36.561	2	210.7	2	209.3	2
WBTSRHB	AB1302	8	1	1	2	20130223	2043	26.504N	72.764W	5125	5221	2.130	34.856	2	34.856	2	253.3	2	252.8	2
WBTSRHB	AB1302	8	1	2	2	20130223	2043	26.504N	72.764W	4754	4839	2.259	34.878	2	34.877	2	261.3	2	260.6	2

WBTSRHB	AB1302	8	1	3	2	20130223	2043	26.504N	72.764W	4373	4448	2.277	34.884	2	34.883	2	264.3	2	264.3	2
WBTSRHB	AB1302	8	1	4	2	20130223	2043	26.504N	72.764W	4014	4079	2.301	34.889	2	34.888	6	266.3	2	266.6	6
WBTSRHB	AB1302	8	1	5	2	20130223	2043	26.504N	72.764W	3643	3699	2.373	34.897	2	34.896	2	267.9	2	268.2	2
WBTSRHB	AB1302	8	1	6	2	20130223	2043	26.504N	72.764W	3154	3199	2.616	34.913	2	34.912	2	267.6	2	268.0	2
WBTSRHB	AB1302	8	1	7	2	20130223	2043	26.504N	72.764W	2664	2699	3.027	34.939	2	34.938	2	263.0	2	263.2	2
WBTSRHB	AB1302	8	1	8	2	20130223	2043	26.504N	72.764W	2173	2199	3.457	34.955	2	34.953	2	262.5	2	262.7	2
WBTSRHB	AB1302	8	1	9	2	20130223	2043	26.504N	72.764W	1928	1950	3.746	34.964	2	34.963	2	262.1	2	262.3	2
WBTSRHB	AB1302	8	1	10	2	20130223	2043	26.504N	72.764W	1583	1599	4.263	34.993	2	34.993	2	255.0	2	255.3	2
WBTSRHB	AB1302	8	1	11	2	20130223	2043	26.504N	72.764W	1410	1424	4.616	35.012	2	35.012	2	247.3	2	247.3	2
WBTSRHB	AB1302	8	1	12	2	20130223	2043	26.504N	72.764W	1242	1254	5.292	35.045	2	35.046	2	228.9	2	229.2	2
WBTSRHB	AB1302	8	1	13	2	20130223	2043	26.504N	72.764W	1074	1084	6.600	35.063	2	35.064	2	173.9	2	181.8	3
WBTSRHB	AB1302	8	1	14	2	20130223	2043	26.504N	72.764W	935	944	7.968	35.090	2	35.089	2	146.5	2	146.4	2
WBTSRHB	AB1302	8	1	15	2	20130223	2043	26.504N	72.764W	817	824	10.109	35.308	2	35.304	2	141.2	2	140.5	2
WBTSRHB	AB1302	8	1	16	2	20130223	2043	26.504N	72.764W	708	714	12.119	35.566	2	35.560	2	148.1	2	146.3	2
WBTSRHB	AB1302	8	1	17	2	20130223	2043	26.504N	72.764W	599	604	14.715	35.958	2	35.954	2	162.6	2	162.6	2
WBTSRHB	AB1302	8	1	18	2	20130223	2043	26.504N	72.764W	490	494	16.835	36.330	2	36.322	2	183.9	2	183.3	2
WBTSRHB	AB1302	8	1	19	2	20130223	2043	26.504N	72.764W	381	384	17.922	36.530	2	36.528	2	195.9	2	196.3	2
WBTSRHB	AB1302	8	1	20	2	20130223	2043	26.504N	72.764W	272	274	18.695	36.621	2	36.616	2	188.4	2	189.3	2
WBTSRHB	AB1302	8	1	21	2	20130223	2043	26.504N	72.764W	183	184	20.291	36.690	2	36.689	2	197.1	2	195.7	2
WBTSRHB	AB1302	8	1	22	2	20130223	2043	26.504N	72.764W	103	104	23.099	36.685	2	36.697	2	201.7	2	200.9	2
WBTSRHB	AB1302	8	1	23	2	20130223	2043	26.504N	72.764W	53	54	23.686	36.602	2	36.602	2	209.3	2	212.7	2
WBTSRHB	AB1302	8	1	24	2	20130223	2043	26.504N	72.764W	3	3	24.603	36.342	2	36.341	2	207.9	2	207.0	2
WBTSRHB	AB1302	9	1	1	2	20130224	0244	26.502N	73.130W	5044	5138	2.135	34.858	2	34.859	2	228.8	2	204.9	4
WBTSRHB	AB1302	9	1	2	2	20130224	0244	26.502N	73.130W	4754	4839	2.246	34.876	2	34.876	2	260.6	2	260.1	2
WBTSRHB	AB1302	9	1	3	2	20130224	0244	26.502N	73.130W	4471	4549	2.269	34.882	2	34.882	2	263.4	2	263.4	2
WBTSRHB	AB1302	9	1	4	2	20130224	0244	26.502N	73.130W	4180	4249	2.277	34.886	2	34.886	2	264.8	2	265.0	2
WBTSRHB	AB1302	9	1	5	2	20130224	0244	26.502N	73.130W	3911	3974	2.305	34.891	2	34.890	2	266.3	2	266.7	2
WBTSRHB	AB1302	9	1	6	2	20130224	0244	26.502N	73.130W	3423	3474	2.414	34.901	2	34.901	2	268.5	2	268.8	2
WBTSRHB	AB1302	9	1	7	2	20130224	0244	26.502N	73.130W	2934	2974	2.781	34.923	2	34.922	2	266.4	2	266.9	2
WBTSRHB	AB1302	9	1	8	2	20130224	0244	26.502N	73.130W	2443	2473	3.229	34.946	2	34.946	2	263.3	2	263.7	2
WBTSRHB	AB1302	9	1	9	2	20130224	0244	26.502N	73.130W	2025	2049	3.641	34.960	2	34.959	2	262.7	2	262.9	2
WBTSRHB	AB1302	9	1	10	2	20130224	0244	26.502N	73.130W	1682	1700	4.085	34.983	2	34.982	6	257.5	2	258.3	2
WBTSRHB	AB1302	9	1	11	2	20130224	0244	26.502N	73.130W	1435	1449	4.573	35.011	2	35.011	2	248.9	2	248.6	2
WBTSRHB	AB1302	9	1	12	2	20130224	0244	26.502N	73.130W	1187	1199	5.596	35.063	2	35.063	2	218.5	2	218.8	2
WBTSRHB	AB1302	9	1	13	2	20130224	0244	26.502N	73.130W	1019	1028	7.204	35.094	2	35.093	2	159.1	2	174.1	4
WBTSRHB	AB1302	9	1	14	2	20130224	0244	26.502N	73.130W	911	919	8.405	35.126	2	35.128	2	134.9	2	129.0	4
WBTSRHB	AB1302	9	1	15	2	20130224	0244	26.502N	73.130W	801	808	10.324	35.334	2	35.334	2	141.4	2	141.2	2
WBTSRHB	AB1302	9	1	16	2	20130224	0244	26.502N	73.130W	693	699	12.737	35.656	2	35.653	2	150.5	2	150.6	2
WBTSRHB	AB1302	9	1	17	2	20130224	0244	26.502N	73.130W	584	588	15.091	36.022	2	36.015	2	165.8	2	165.3	2
WBTSRHB	AB1302	9	1	18	2	20130224	0244	26.502N	73.130W	475	478	17.070	36.373	2	36.373	2	187.6	2	187.5	2
WBTSRHB	AB1302	9	1	19	2	20130224	0244	26.502N	73.130W	366	369	17.969	36.538	2	36.539	2	194.9	2	197.3	2
WBTSRHB	AB1302	9	1	20	2	20130224	0244	26.502N	73.130W	257	258	18.786	36.631	2	36.631	2	187.6	2	188.1	2
WBTSRHB	AB1302	9	1	21	2	20130224	0244	26.502N	73.130W	168	169	20.616	36.785	2	36.787	2	181.7	2	181.8	2
WBTSRHB	AB1302	9	1	22	2	20130224	0244	26.502N	73.130W	118	119	22.460	36.801	2	36.796	2	196.4	2	197.4	2
WBTSRHB	AB1302	9	1	23	2	20130224	0244	26.502N	73.130W	68	68	23.747	36.612	2	36.616	2	209.1	2	207.3	2
WBTSRHB	AB1302	9	1	24	2	20130224	0244	26.502N	73.130W	3	3	24.191	36.498	2	36.499	2	208.2	2	208.2	2
WBTSRHB	AB1302	10	1	1	2	20130224	0833	26.500N	73.498W	4950	5041	2.177	34.865	2	34.865	2	255.8	2	255.0	6
WBTSRHB	AB1302	10	1	2	2	20130224	0833	26.500N	73.498W	4597	4678	2.257	34.880	2	34.879	2	262.3	2	261.8	2
WBTSRHB	AB1302	10	1	3	2	20130224	0833	26.500N	73.498W	4228	4299	2.274	34.886	2	34.885	2	264.7	2	265.7	2
WBTSRHB	AB1302	10	1	4	2	20130224	0833	26.500N	73.498W	3936	3999	2.293	34.890	2	34.889	2	266.3	2	266.7	2
WBTSRHB	AB1302	10	1	5	2	20130224	0833	26.500N	73.498W	3594	3649	2.361	34.897	2	34.897	2	267.6	2	268.2	2
WBTSRHB	AB1302	10	1	6	2	20130224	0833	26.500N	73.498W	3203	3249	2.544	34.910	2	34.909	2	267.5	2	268.0	2
WBTSRHB	AB1302	10	1	7	2	20130224	0833	26.500N	73.498W	2713	2749	2.922	34.932	2	34.931	2	264.8	2	264.8	2
WBTSRHB	AB1302	10	1	8	2	20130224	0833	26.500N	73.498W	2222	2249	3.417	34.953	2	34.953	2	263.1	2	263.5	2
WBTSRHB	AB1302	10	1	9	2	20130224	0833	26.500N	73.498W	1829	1849	3.929	34.972	2	34.972	6	260.2	2	260.2	2
WBTSRHB	AB1302	10	1	10	2	20130224	0833	26.500N	73.498W	1483	1498	4.471	35.003	2	35.004	2	251.0	2	251.1	2
WBTSRHB	AB1302	10	1	11	2	20130224	0833	26.500N	73.498W	1321	1334	4.953	35.032	2	35.032	2	238.7	2	238.7	2
WBTSRHB	AB1302	10	1	12	2	20130224	0833	26.500N	73.498W	1152	1163	5.817	35.062	2	35.063	2	213.2	2	213.4	2
WBTSRHB	AB1302	10	1	13	2	20130224	0833	26.500N	73.498W	985	994	7.263	35.048	2	35.048	2	155.3	2	155.0	2
WBTSRHB	AB1302	10	1	14	2	20130224	0833	26.500N	73.498W	875	883	9.035	35.183	2	35.179	2	142.1	2	141.3	2
WBTSRHB	AB1302	10	1	15	2	20130224	0833	26.500N	73.498W	767	774	10.926	35.400	2	35.393	2	141.2	2	140.5	2
WBTSRHB	AB1302	10	1	16	2	20130224	0833	26.500N	73.498W	658	663	13.518	35.765	2	35.756	2	152.0	2	150.7	2
WBTSRHB	AB1302	10	1	17	2	20130224	0833	26.500N	73.498W	549	554	15.936	36.165	2	36.160	2	172.4	2	171.7	2
WBTSRHB	AB1302	10	1	18	2	20130224	0833	26.500N	73.498W	440	443	17.441	36.440	2	36.438	2	189.9	2	190.1	2
WBTSRHB	AB1302	10	1	19	2	20130224	0833	26.500N	73.498W	331	334	18.191	36.564	2	36.564	2	193.1	2	193.3	2
WBTSRHB	AB1302	10	1	20	2	20130224	0833	26.500N	73.498W	223	225	19.515	36.673	2	36.672	2	187.3	2	188.2	2

WBTSRHB	AB1302	10	1	21	2	20130224	0833	26.500N	73.498W	132	133	22.826	36.767	2	36.771	2	198.5	2	198.1	2
WBTSRHB	AB1302	10	1	22	2	20130224	0833	26.500N	73.498W	84	84	23.775	36.608	2	36.610	2	208.1	2	208.7	2
WBTSRHB	AB1302	10	1	23	2	20130224	0833	26.500N	73.498W	34	34	23.989	36.576	2	36.578	2	207.6	2	209.6	2
WBTSRHB	AB1302	10	1	24	2	20130224	0833	26.500N	73.498W	3	3	24.500	36.341	2	36.340	2	207.2	2	206.8	2
WBTSRHB	AB1302	11	1	1	2	20130224	1428	26.501N	73.867W	4731	4816	2.149	34.865	2	34.866	2	255.1	2	254.4	2
WBTSRHB	AB1302	11	1	2	2	20130224	1428	26.501N	73.867W	4374	4448	2.236	34.881	2	34.881	2	263.0	2	262.7	2
WBTSRHB	AB1302	11	1	3	2	20130224	1428	26.501N	73.867W	4063	4129	2.280	34.888	2	34.889	2	265.6	2	265.3	2
WBTSRHB	AB1302	11	1	4	2	20130224	1428	26.501N	73.867W	3760	3819	2.310	34.892	2	34.892	2	267.0	2	266.9	2
WBTSRHB	AB1302	11	1	5	2	20130224	1428	26.501N	73.867W	3447	3498	2.405	34.900	2	34.899	2	268.1	2	268.1	6
WBTSRHB	AB1302	11	1	6	2	20130224	1428	26.501N	73.867W	3056	3099	2.669	34.916	2	34.917	2	267.0	2	267.1	2
WBTSRHB	AB1302	11	1	7	2	20130224	1428	26.501N	73.867W	2664	2699	3.026	34.941	2	34.941	6	261.6	2	261.7	2
WBTSRHB	AB1302	11	1	8	2	20130224	1428	26.501N	73.867W	2271	2299	3.391	34.956	2	34.956	2	262.2	2	261.8	2
WBTSRHB	AB1302	11	1	9	2	20130224	1428	26.501N	73.867W	1927	1948	3.734	34.965	2	34.964	2	262.0	2	261.7	2
WBTSRHB	AB1302	11	1	10	2	20130224	1428	26.501N	73.867W	1582	1599	4.250	34.992	2	34.992	2	255.2	2	254.6	2
WBTSRHB	AB1302	11	1	11	2	20130224	1428	26.501N	73.867W	1385	1399	4.707	35.023	2	35.024	2	244.8	2	244.3	2
WBTSRHB	AB1302	11	1	12	2	20130224	1428	26.501N	73.867W	1217	1229	5.375	35.047	2	35.048	2	225.7	2	226.2	2
WBTSRHB	AB1302	11	1	13	2	20130224	1428	26.501N	73.867W	1050	1059	6.737	35.038	2	35.040	2	167.1	2	167.5	2
WBTSRHB	AB1302	11	1	14	2	20130224	1428	26.501N	73.867W	941	949	7.972	35.093	2	35.094	2	147.3	2	146.8	2
WBTSRHB	AB1302	11	1	15	2	20130224	1428	26.501N	73.867W	841	849	9.539	35.233	2	35.230	2	140.1	2	139.6	2
WBTSRHB	AB1302	11	1	16	2	20130224	1428	26.501N	73.867W	723	729	11.712	35.493	2	35.493	2	140.2	2	139.8	2
WBTSRHB	AB1302	11	1	17	2	20130224	1428	26.501N	73.867W	614	619	14.198	35.871	2	35.864	2	155.4	2	155.4	2
WBTSRHB	AB1302	11	1	18	2	20130224	1428	26.501N	73.867W	505	509	16.738	36.310	2	36.308	2	180.6	2	180.6	2
WBTSRHB	AB1302	11	1	19	2	20130224	1428	26.501N	73.867W	396	399	17.856	36.518	2	36.519	2	195.0	2	195.5	2
WBTSRHB	AB1302	11	1	20	2	20130224	1428	26.501N	73.867W	287	289	18.884	36.631	2	36.629	2	186.8	2	187.1	2
WBTSRHB	AB1302	11	1	21	2	20130224	1428	26.501N	73.867W	197	198	21.064	36.724	2	36.726	2	198.7	2	199.1	2
WBTSRHB	AB1302	11	1	22	2	20130224	1428	26.501N	73.867W	108	108	24.023	36.675	2	36.680	2	194.4	2	196.6	3
WBTSRHB	AB1302	11	1	23	2	20130224	1428	26.501N	73.867W	58	58	24.504	36.435	2	36.435	2	205.4	2	206.6	2
WBTSRHB	AB1302	11	1	24	2	20130224	1428	26.501N	73.867W	3	3	24.864	36.293	2	36.294	2	194.0	2	215.4	3
WBTSRHB	AB1302	12	1	1	2	20130224	2001	26.500N	74.234W	4534	4613	2.182	34.872	2	34.872	2	-999.0	9	-999.0	9
WBTSRHB	AB1302	12	1	2	2	20130224	2001	26.500N	74.234W	4201	4271	2.215	34.881	2	34.880	2	263.2	2	262.8	2
WBTSRHB	AB1302	12	1	3	2	20130224	2001	26.500N	74.234W	3887	3949	2.265	34.889	2	34.888	2	266.5	2	266.7	2
WBTSRHB	AB1302	12	1	4	2	20130224	2001	26.500N	74.234W	3569	3623	2.371	34.898	2	34.897	2	268.0	2	268.2	2
WBTSRHB	AB1302	12	1	5	2	20130224	2001	26.500N	74.234W	3253	3300	2.575	34.911	2	34.910	2	268.0	2	268.1	2
WBTSRHB	AB1302	12	1	6	2	20130224	2001	26.500N	74.234W	2860	2898	2.896	34.930	2	34.930	2	264.3	2	264.8	2
WBTSRHB	AB1302	12	1	7	2	20130224	2001	26.500N	74.234W	2469	2500	3.236	34.949	2	34.949	2	261.8	2	262.3	2
WBTSRHB	AB1302	12	1	8	2	20130224	2001	26.500N	74.234W	2076	2100	3.584	34.960	2	34.960	2	262.6	2	262.5	2
WBTSRHB	AB1302	12	1	9	2	20130224	2001	26.500N	74.234W	1780	1800	3.915	34.973	2	34.972	2	260.2	2	259.8	2
WBTSRHB	AB1302	12	1	10	2	20130224	2001	26.500N	74.234W	1583	1600	4.175	34.986	2	34.986	2	256.6	2	256.0	2
WBTSRHB	AB1302	12	1	11	2	20130224	2001	26.500N	74.234W	1385	1399	4.607	35.011	2	35.011	2	248.2	2	247.6	2
WBTSRHB	AB1302	12	1	12	2	20130224	2001	26.500N	74.234W	1188	1199	5.483	35.055	2	35.055	2	223.2	2	223.6	2
WBTSRHB	AB1302	12	1	13	2	20130224	2001	26.500N	74.234W	1034	1044	6.722	35.067	2	35.060	4	175.9	2	178.1	2
WBTSRHB	AB1302	12	1	14	2	20130224	2001	26.500N	74.234W	926	934	8.053	35.122	2	35.121	2	153.8	2	155.3	2
WBTSRHB	AB1302	12	1	15	2	20130224	2001	26.500N	74.234W	818	825	9.987	35.283	2	35.276	2	139.5	2	139.1	6
WBTSRHB	AB1302	12	1	16	2	20130224	2001	26.500N	74.234W	708	714	12.061	35.550	2	35.546	2	144.2	2	143.4	2
WBTSRHB	AB1302	12	1	17	2	20130224	2001	26.500N	74.234W	598	603	14.946	35.996	2	35.990	2	165.7	2	166.1	2
WBTSRHB	AB1302	12	1	18	2	20130224	2001	26.500N	74.234W	488	492	17.301	36.420	2	36.411	2	193.3	2	190.5	2
WBTSRHB	AB1302	12	1	19	2	20130224	2001	26.500N	74.234W	382	385	17.947	36.532	2	36.533	2	196.3	2	195.8	2
WBTSRHB	AB1302	12	1	20	2	20130224	2001	26.500N	74.234W	268	270	19.087	36.656	2	36.658	2	183.7	2	184.6	2
WBTSRHB	AB1302	12	1	21	2	20130224	2001	26.500N	74.234W	185	187	21.008	36.782	2	36.774	2	182.3	2	187.9	3
WBTSRHB	AB1302	12	1	22	2	20130224	2001	26.500N	74.234W	118	118	24.129	36.732	2	36.742	3	192.3	2	191.5	2
WBTSRHB	AB1302	12	1	23	2	20130224	2001	26.500N	74.234W	70	71	24.765	36.435	2	36.444	2	205.4	2	204.2	2
WBTSRHB	AB1302	12	1	24	2	20130224	2001	26.500N	74.234W	4	4	25.023	36.280	2	36.277	2	206.9	2	205.9	2
WBTSRHB	AB1302	13	1	1	2	20130225	0057	26.500N	74.515W	4488	4566	2.158	34.870	2	34.870	6	-999.0	9	-999.0	9
WBTSRHB	AB1302	13	1	2	2	20130225	0057	26.500N	74.515W	4131	4199	2.225	34.882	2	34.883	2	-999.0	9	-999.0	9
WBTSRHB	AB1302	13	1	3	2	20130225	0057	26.500N	74.515W	3936	3999	2.243	34.886	2	34.886	2	242.6	2	251.1	4
WBTSRHB	AB1302	13	1	4	2	20130225	0057	26.500N	74.515W	3623	3679	2.310	34.893	2	34.893	2	267.4	2	267.5	2
WBTSRHB	AB1302	13	1	5	2	20130225	0057	26.500N	74.515W	3350	3400	2.438	34.903	2	34.903	2	268.1	2	268.2	2
WBTSRHB	AB1302	13	1	6	2	20130225	0057	26.500N	74.515W	2958	2999	2.722	34.920	2	34.920	2	266.6	2	266.5	2
WBTSRHB	AB1302	13	1	7	2	20130225	0057	26.500N	74.515W	2566	2599	3.065	34.938	2	34.937	2	264.3	2	263.6	2
WBTSRHB	AB1302	13	1	8	2	20130225	0057	26.500N	74.515W	2174	2199	3.440	34.955	2	34.955	2	263.0	2	262.6	2
WBTSRHB	AB1302	13	1	9	2	20130225	0057	26.500N	74.515W	1829	1849	3.825	34.967	2	34.968	2	261.3	2	260.8	2
WBTSRHB	AB1302	13	1	10	2	20130225	0057	26.500N	74.515W	1533	1549	4.281	34.994	2	34.994	2	254.1	2	254.0	2
WBTSRHB	AB1302	13	1	11	2	20130225	0057	26.500N	74.515W	1341	1354	4.666	35.015	2	35.016	2	246.4	2	245.8	2
WBTSRHB	AB1302	13	1	12	2	20130225	0057	26.500N	74.515W	1173	1184	5.393	35.049	2	35.050	2	225.5	2	225.5	2
WBTSRHB	AB1302	13	1	13	2	20130225	0057	26.500N	74.515W	1005	1014	6.494	35.045	2	35.046	2	177.7	2	177.7	2
WBTSRHB	AB1302	13	1	14	2	20130225	0057	26.500N	74.515W	896	904	8.201	35.132	2	35.130	2	151.8	2	152.9	2

WBTSRHB	AB1302	13	1	15	2	20130225	0057	26.500N	74.515W	787	794	10.098	35.298	2	35.293	2	140.2	2	139.5	2
WBTSRHB	AB1302	13	1	16	2	20130225	0057	26.500N	74.515W	679	684	12.667	35.642	2	35.629	3	147.4	2	145.7	2
WBTSRHB	AB1302	13	1	17	2	20130225	0057	26.500N	74.515W	569	574	15.244	36.047	2	36.040	2	169.2	2	169.8	2
WBTSRHB	AB1302	13	1	18	2	20130225	0057	26.500N	74.515W	462	465	17.071	36.382	2	36.380	2	192.8	2	191.7	2
WBTSRHB	AB1302	13	1	19	2	20130225	0057	26.500N	74.515W	352	354	18.024	36.544	2	36.544	2	195.2	2	194.9	2
WBTSRHB	AB1302	13	1	20	2	20130225	0057	26.500N	74.515W	253	255	19.137	36.671	2	36.669	2	182.7	2	181.6	2
WBTSRHB	AB1302	13	1	21	2	20130225	0057	26.500N	74.515W	153	155	22.768	36.733	2	36.740	2	198.2	2	197.0	2
WBTSRHB	AB1302	13	1	22	2	20130225	0057	26.500N	74.515W	93	94	23.968	36.571	2	36.571	2	209.6	2	209.0	2
WBTSRHB	AB1302	13	1	23	2	20130225	0057	26.500N	74.515W	44	44	24.592	36.430	2	36.436	2	206.6	2	206.6	2
WBTSRHB	AB1302	13	1	24	2	20130225	0057	26.500N	74.515W	2	2	24.746	36.375	2	36.373	2	206.7	2	211.4	2
WBTSRHB	AB1302	14	1	1	2	20130225	0549	26.502N	74.803W	4532	4611	2.234	34.878	2	34.878	2	261.3	2	260.8	2
WBTSRHB	AB1302	14	1	2	2	20130225	0549	26.502N	74.803W	4204	4274	2.246	34.883	2	34.883	2	264.3	2	263.8	2
WBTSRHB	AB1302	14	1	3	2	20130225	0549	26.502N	74.803W	3887	3949	2.265	34.888	2	34.888	6	266.1	2	266.7	2
WBTSRHB	AB1302	14	1	4	2	20130225	0549	26.502N	74.803W	3569	3624	2.309	34.893	2	34.893	2	267.9	2	267.9	2
WBTSRHB	AB1302	14	1	5	2	20130225	0549	26.502N	74.803W	3252	3298	2.411	34.901	2	34.901	2	268.9	2	269.0	2
WBTSRHB	AB1302	14	1	6	2	20130225	0549	26.502N	74.803W	2761	2798	2.713	34.919	2	34.918	2	267.7	2	267.8	2
WBTSRHB	AB1302	14	1	7	2	20130225	0549	26.502N	74.803W	2370	2399	3.071	34.937	2	34.937	2	265.1	2	264.5	2
WBTSRHB	AB1302	14	1	8	2	20130225	0549	26.502N	74.803W	2124	2149	3.351	34.949	2	34.948	2	264.2	2	264.0	2
WBTSRHB	AB1302	14	1	9	2	20130225	0549	26.502N	74.803W	1898	1919	3.582	34.958	2	34.958	2	263.7	2	263.0	2
WBTSRHB	AB1302	14	1	10	2	20130225	0549	26.502N	74.803W	1602	1619	4.053	34.982	2	34.981	2	258.4	2	257.8	2
WBTSRHB	AB1302	14	1	11	2	20130225	0549	26.502N	74.803W	1379	1393	4.512	35.007	2	35.007	2	250.2	2	249.4	2
WBTSRHB	AB1302	14	1	12	2	20130225	0549	26.502N	74.803W	1212	1224	5.059	35.040	2	35.039	2	236.3	2	235.3	2
WBTSRHB	AB1302	14	1	13	2	20130225	0549	26.502N	74.803W	1044	1054	6.035	35.066	2	35.067	2	198.0	2	199.4	2
WBTSRHB	AB1302	14	1	14	2	20130225	0549	26.502N	74.803W	935	944	7.086	35.081	2	35.081	2	172.0	2	172.6	2
WBTSRHB	AB1302	14	1	15	2	20130225	0549	26.502N	74.803W	827	834	8.869	35.180	2	35.174	2	145.2	2	145.6	2
WBTSRHB	AB1302	14	1	16	2	20130225	0549	26.502N	74.803W	718	724	11.125	35.423	2	35.415	2	140.3	2	139.4	2
WBTSRHB	AB1302	14	1	17	2	20130225	0549	26.502N	74.803W	608	613	13.650	35.793	2	35.771	4	153.0	2	151.4	2
WBTSRHB	AB1302	14	1	18	2	20130225	0549	26.502N	74.803W	500	504	16.314	36.239	2	36.225	3	178.2	2	176.7	2
WBTSRHB	AB1302	14	1	19	2	20130225	0549	26.502N	74.803W	391	394	17.690	36.489	2	36.484	2	193.8	2	193.3	2
WBTSRHB	AB1302	14	1	20	2	20130225	0549	26.502N	74.803W	282	284	18.646	36.616	2	36.615	2	188.1	2	188.0	2
WBTSRHB	AB1302	14	1	21	2	20130225	0549	26.502N	74.803W	193	194	20.482	36.734	2	36.731	2	189.8	2	188.8	2
WBTSRHB	AB1302	14	1	22	2	20130225	0549	26.502N	74.803W	113	114	23.354	36.692	2	36.691	2	205.1	2	203.2	2
WBTSRHB	AB1302	14	1	23	2	20130225	0549	26.502N	74.803W	64	64	24.043	36.551	2	36.558	2	206.8	2	208.8	2
WBTSRHB	AB1302	14	1	24	2	20130225	0549	26.502N	74.803W	3	3	24.935	36.295	2	-999.000	9	206.4	2	206.0	2
WBTSRHB	AB1302	15	1	1	2	20130225	1048	26.499N	75.084W	4597	4678	2.163	34.868	2	34.870	2	256.8	2	256.3	2
WBTSRHB	AB1302	15	1	2	2	20130225	1048	26.499N	75.084W	4306	4379	2.244	34.882	2	34.882	2	263.5	2	263.2	2
WBTSRHB	AB1302	15	1	3	2	20130225	1048	26.499N	75.084W	4024	4089	2.255	34.886	2	34.886	2	265.4	2	265.4	2
WBTSRHB	AB1302	15	1	4	2	20130225	1048	26.499N	75.084W	3740	3798	2.256	34.888	2	34.888	2	266.6	2	266.5	2
WBTSRHB	AB1302	15	1	5	2	20130225	1048	26.499N	75.084W	3447	3499	2.310	34.894	2	34.895	2	268.4	2	268.1	2
WBTSRHB	AB1302	15	1	6	2	20130225	1048	26.499N	75.084W	2957	2997	2.511	34.908	2	34.907	2	269.5	2	268.9	2
WBTSRHB	AB1302	15	1	7	2	20130225	1048	26.499N	75.084W	2624	2658	2.773	34.924	2	34.924	2	266.5	2	266.3	2
WBTSRHB	AB1302	15	1	8	2	20130225	1048	26.499N	75.084W	2222	2249	3.224	34.949	2	34.949	2	262.8	2	262.1	2
WBTSRHB	AB1302	15	1	9	2	20130225	1048	26.499N	75.084W	1799	1818	3.636	34.955	2	34.955	2	264.4	2	263.7	2
WBTSRHB	AB1302	15	1	10	2	20130225	1048	26.499N	75.084W	1528	1544	4.123	34.986	2	34.986	2	257.4	2	256.3	2
WBTSRHB	AB1302	15	1	11	2	20130225	1048	26.499N	75.084W	1341	1354	4.533	35.010	2	35.010	2	249.9	2	248.8	2
WBTSRHB	AB1302	15	1	12	2	20130225	1048	26.499N	75.084W	1173	1184	5.150	35.042	2	35.042	2	233.4	2	232.6	2
WBTSRHB	AB1302	15	1	13	2	20130225	1048	26.499N	75.084W	1005	1014	6.299	35.065	2	35.065	2	178.1	2	193.4	4
WBTSRHB	AB1302	15	1	14	2	20130225	1048	26.499N	75.084W	891	899	7.622	35.097	2	35.096	2	148.7	2	161.0	3
WBTSRHB	AB1302	15	1	15	2	20130225	1048	26.499N	75.084W	802	809	8.878	35.177	2	35.177	2	145.1	2	144.6	2
WBTSRHB	AB1302	15	1	16	2	20130225	1048	26.499N	75.084W	693	699	10.792	35.394	2	35.379	3	141.7	2	140.8	2
WBTSRHB	AB1302	15	1	17	2	20130225	1048	26.499N	75.084W	584	589	13.095	35.704	2	35.696	2	148.1	2	147.7	2
WBTSRHB	AB1302	15	1	18	2	20130225	1048	26.499N	75.084W	475	479	15.314	36.061	2	36.056	2	158.4	2	181.3	3
WBTSRHB	AB1302	15	1	19	2	20130225	1048	26.499N	75.084W	366	369	17.037	36.364	2	36.362	2	183.8	2	183.3	2
WBTSRHB	AB1302	15	1	20	2	20130225	1048	26.499N	75.084W	257	259	19.180	36.664	2	36.661	2	172.8	2	191.5	3
WBTSRHB	AB1302	15	1	21	2	20130225	1048	26.499N	75.084W	167	169	21.139	36.766	2	36.762	2	180.7	2	202.8	3
WBTSRHB	AB1302	15	1	22	2	20130225	1048	26.499N	75.084W	104	104	23.332	36.666	2	36.669	2	204.3	2	208.7	2
WBTSRHB	AB1302	15	1	23	2	20130225	1048	26.499N	75.084W	50	51	24.076	36.599	2	36.593	2	209.9	2	205.1	2
WBTSRHB	AB1302	15	1	24	2	20130225	1048	26.499N	75.084W	3	3	24.956	36.307	2	36.304	2	193.5	2	259.1	4
WBTSRHB	AB1302	16	1	1	2	20130225	1526	26.500N	75.300W	4625	4707	2.209	34.873	2	34.873	2	-999.0	9	-999.0	9
WBTSRHB	AB1302	16	1	2	2	20130225	1526	26.500N	75.300W	4286	4359	2.238	34.881	2	34.881	2	263.6	2	262.8	2
WBTSRHB	AB1302	16	1	3	2	20130225	1526	26.500N	75.300W	3959	4023	2.241	34.885	2	34.885	2	265.3	2	264.7	2
WBTSRHB	AB1302	16	1	4	2	20130225	1526	26.500N	75.300W	3633	3689	2.256	34.889	2	34.887	2	266.9	2	266.4	2
WBTSRHB	AB1302	16	1	5	2	20130225	1526	26.500N	75.300W	3301	3349	2.334	34.897	2	34.896	2	268.9	2	268.4	2
WBTSRHB	AB1302	16	1	6	2	20130225	1526	26.500N	75.300W	2811	2849	2.690	34.919	2	34.918	2	267.3	2	266.6	6
WBTSRHB	AB1302	16	1	7	2	20130225	1526	26.500N	75.300W	2468	2499	3.025	34.936	2	34.935	2	265.2	2	264.4	2
WBTSRHB	AB1302	16	1	8	2	20130225	1526	26.500N	75.300W	2075	2099	3.459	34.955	2	34.956	2	263.4	2	262.5	2

WBTSRHB	AB1302	16	1	9	2	20130225	1526	26.500N	75.300W	1829	1849	3.736	34.967	2	34.967	6	262.2	2	261.1	2
WBTSRHB	AB1302	16	1	10	2	20130225	1526	26.500N	75.300W	1583	1600	4.037	34.978	2	34.978	2	259.1	2	257.8	2
WBTSRHB	AB1302	16	1	11	2	20130225	1526	26.500N	75.300W	1376	1390	4.434	35.003	2	35.003	2	251.9	2	250.6	2
WBTSRHB	AB1302	16	1	12	2	20130225	1526	26.500N	75.300W	1208	1219	4.890	35.024	2	35.023	2	240.2	2	240.1	2
WBTSRHB	AB1302	16	1	13	2	20130225	1526	26.500N	75.300W	1039	1049	6.132	35.071	2	35.072	2	188.7	2	203.3	3
WBTSRHB	AB1302	16	1	14	2	20130225	1526	26.500N	75.300W	931	939	7.513	35.103	2	35.102	2	164.3	2	165.6	2
WBTSRHB	AB1302	16	1	15	2	20130225	1526	26.500N	75.300W	822	829	9.024	35.191	2	35.183	2	144.2	2	143.4	2
WBTSRHB	AB1302	16	1	16	2	20130225	1526	26.500N	75.300W	713	719	10.827	35.393	2	35.392	2	142.0	2	141.0	2
WBTSRHB	AB1302	16	1	17	2	20130225	1526	26.500N	75.300W	576	581	13.574	35.783	2	35.778	2	156.8	2	156.7	2
WBTSRHB	AB1302	16	1	18	2	20130225	1526	26.500N	75.300W	495	499	15.405	36.080	2	36.064	3	169.3	2	165.7	2
WBTSRHB	AB1302	16	1	19	2	20130225	1526	26.500N	75.300W	386	389	17.315	36.420	2	36.419	2	189.8	2	188.4	2
WBTSRHB	AB1302	16	1	20	2	20130225	1526	26.500N	75.300W	277	279	18.449	36.591	2	36.589	2	189.2	2	185.5	2
WBTSRHB	AB1302	16	1	21	2	20130225	1526	26.500N	75.300W	188	189	20.412	36.686	2	36.685	2	199.0	2	196.4	2
WBTSRHB	AB1302	16	1	22	2	20130225	1526	26.500N	75.300W	118	119	23.024	36.741	2	36.740	2	196.7	2	197.9	2
WBTSRHB	AB1302	16	1	23	2	20130225	1526	26.500N	75.300W	69	69	23.971	36.574	2	36.580	2	208.5	2	207.9	2
WBTSRHB	AB1302	16	1	24	2	20130225	1526	26.500N	75.300W	4	4	24.298	36.547	2	36.545	2	208.6	2	207.7	2
WBTSRHB	AB1302	17	1	1	2	20130225	1957	26.500N	75.497W	4674	4758	2.206	34.872	2	34.872	6	258.7	2	257.4	6
WBTSRHB	AB1302	17	1	2	2	20130225	1957	26.500N	75.497W	4374	4449	2.231	34.880	2	34.880	2	262.5	2	261.8	2
WBTSRHB	AB1302	17	1	3	2	20130225	1957	26.500N	75.497W	4082	4149	2.243	34.884	2	34.884	2	264.9	2	264.1	2
WBTSRHB	AB1302	17	1	4	2	20130225	1957	26.500N	75.497W	3789	3849	2.258	34.888	2	34.888	2	266.7	2	266.0	2
WBTSRHB	AB1302	17	1	5	2	20130225	1957	26.500N	75.497W	3497	3550	2.299	34.893	2	34.893	2	268.1	2	267.4	2
WBTSRHB	AB1302	17	1	6	2	20130225	1957	26.500N	75.497W	3056	3099	2.528	34.909	2	34.909	2	268.7	2	268.5	2
WBTSRHB	AB1302	17	1	7	2	20130225	1957	26.500N	75.497W	2666	2701	2.878	34.929	2	34.928	2	266.0	2	265.0	2
WBTSRHB	AB1302	17	1	8	2	20130225	1957	26.500N	75.497W	2321	2349	3.226	34.947	2	34.946	2	263.5	2	262.5	2
WBTSRHB	AB1302	17	1	9	2	20130225	1957	26.500N	75.497W	1977	1999	3.595	34.960	2	34.960	2	263.0	2	262.0	2
WBTSRHB	AB1302	17	1	10	2	20130225	1957	26.500N	75.497W	1682	1700	3.927	34.974	2	34.974	2	260.2	2	259.8	2
WBTSRHB	AB1302	17	1	11	2	20130225	1957	26.500N	75.497W	1435	1450	4.323	34.995	2	34.995	2	254.2	2	254.1	2
WBTSRHB	AB1302	17	1	12	2	20130225	1957	26.500N	75.497W	1193	1204	5.161	35.046	2	35.047	2	232.2	2	232.6	2
WBTSRHB	AB1302	17	1	13	2	20130225	1957	26.500N	75.497W	1024	1034	6.324	35.074	2	35.074	2	182.1	2	196.4	3
WBTSRHB	AB1302	17	1	14	2	20130225	1957	26.500N	75.497W	915	924	7.736	35.088	2	35.088	2	154.1	2	153.7	2
WBTSRHB	AB1302	17	1	15	2	20130225	1957	26.500N	75.497W	806	813	9.494	35.233	2	35.233	2	141.2	2	141.2	2
WBTSRHB	AB1302	17	1	16	2	20130225	1957	26.500N	75.497W	699	705	11.574	35.492	2	35.495	2	145.6	2	146.3	2
WBTSRHB	AB1302	17	1	17	2	20130225	1957	26.500N	75.497W	589	594	13.974	35.839	2	35.835	2	162.1	2	162.1	2
WBTSRHB	AB1302	17	1	18	2	20130225	1957	26.500N	75.497W	480	484	16.192	36.212	2	36.213	2	173.3	2	175.3	2
WBTSRHB	AB1302	17	1	19	2	20130225	1957	26.500N	75.497W	371	374	17.692	36.490	2	36.489	2	194.6	2	193.8	2
WBTSRHB	AB1302	17	1	20	2	20130225	1957	26.500N	75.497W	263	264	18.465	36.599	2	36.599	2	190.2	2	190.9	2
WBTSRHB	AB1302	17	1	21	2	20130225	1957	26.500N	75.497W	173	174	19.952	36.653	2	36.653	2	196.1	2	196.4	2
WBTSRHB	AB1302	17	1	22	2	20130225	1957	26.500N	75.497W	84	85	22.489	36.704	2	36.701	2	210.7	2	213.3	2
WBTSRHB	AB1302	17	1	23	2	20130225	1957	26.500N	75.497W	34	34	23.573	36.589	2	36.591	2	210.5	2	210.7	2
WBTSRHB	AB1302	17	1	24	2	20130225	1957	26.500N	75.497W	3	3	24.600	36.534	2	36.533	2	208.6	2	208.1	2
WBTSRHB	AB1302	18	1	1	2	20130226	0033	26.499N	75.704W	4683	4766	2.200	34.871	2	34.872	2	258.2	2	257.8	2
WBTSRHB	AB1302	18	1	2	2	20130226	0033	26.499N	75.704W	4344	4418	2.237	34.880	2	34.880	6	263.3	2	263.0	6
WBTSRHB	AB1302	18	1	3	2	20130226	0033	26.499N	75.704W	4014	4079	2.251	34.885	2	34.885	2	265.3	2	265.6	2
WBTSRHB	AB1302	18	1	4	2	20130226	0033	26.499N	75.704W	3682	3739	2.283	34.890	2	34.890	2	267.3	2	267.8	2
WBTSRHB	AB1302	18	1	5	2	20130226	0033	26.499N	75.704W	3350	3400	2.388	34.900	2	34.900	2	268.6	2	268.8	2
WBTSRHB	AB1302	18	1	6	2	20130226	0033	26.499N	75.704W	2840	2879	2.670	34.915	2	34.915	2	268.7	2	269.1	2
WBTSRHB	AB1302	18	1	7	2	20130226	0033	26.499N	75.704W	2434	2464	3.142	34.945	2	34.944	2	262.8	2	263.0	2
WBTSRHB	AB1302	18	1	8	2	20130226	0033	26.499N	75.704W	2026	2049	3.553	34.959	2	34.958	2	263.0	2	263.1	2
WBTSRHB	AB1302	18	1	9	2	20130226	0033	26.499N	75.704W	1726	1744	3.914	34.975	2	34.975	2	260.2	2	260.0	2
WBTSRHB	AB1302	18	1	10	2	20130226	0033	26.499N	75.704W	1518	1534	4.237	34.992	2	34.992	2	255.4	2	255.2	2
WBTSRHB	AB1302	18	1	11	2	20130226	0033	26.499N	75.704W	1351	1364	4.542	35.009	2	35.009	2	249.7	2	249.1	2
WBTSRHB	AB1302	18	1	12	2	20130226	0033	26.499N	75.704W	1183	1194	5.300	35.049	2	35.049	2	228.6	2	229.2	2
WBTSRHB	AB1302	18	1	13	2	20130226	0033	26.499N	75.704W	1014	1023	6.632	35.079	2	35.079	2	187.2	2	187.8	2
WBTSRHB	AB1302	18	1	14	2	20130226	0033	26.499N	75.704W	906	914	8.229	35.130	2	35.129	2	151.4	2	151.4	2
WBTSRHB	AB1302	18	1	15	2	20130226	0033	26.499N	75.704W	797	803	9.851	35.268	2	35.269	2	139.9	2	139.6	2
WBTSRHB	AB1302	18	1	16	2	20130226	0033	26.499N	75.704W	688	694	12.250	35.590	2	35.584	2	149.0	2	149.0	2
WBTSRHB	AB1302	18	1	17	2	20130226	0033	26.499N	75.704W	580	584	14.804	35.972	2	35.968	2	164.5	2	164.8	2
WBTSRHB	AB1302	18	1	18	2	20130226	0033	26.499N	75.704W	471	475	17.018	36.372	2	36.372	2	191.3	2	192.5	2
WBTSRHB	AB1302	18	1	19	2	20130226	0033	26.499N	75.704W	361	364	17.831	36.522	2	36.521	2	198.6	2	198.4	2
WBTSRHB	AB1302	18	1	20	2	20130226	0033	26.499N	75.704W	253	255	18.562	36.608	2	36.608	2	190.5	2	191.1	2
WBTSRHB	AB1302	18	1	21	2	20130226	0033	26.499N	75.704W	163	164	20.093	36.669	2	36.667	2	195.7	2	195.1	2
WBTSRHB	AB1302	18	1	22	2	20130226	0033	26.499N	75.704W	108	109	21.731	36.672	2	36.672	2	211.3	2	211.8	2
WBTSRHB	AB1302	18	1	23	2	20130226	0033	26.499N	75.704W	59	60	22.481	36.716	2	36.715	2	214.8	2	212.3	2
WBTSRHB	AB1302	18	1	24	2	20130226	0033	26.499N	75.704W	3	3	23.487	36.608	2	36.608	2	211.4	2	210.3	2
WBTSRHB	AB1302	19	1	1	2	20130226	0516	26.502N	75.903W	4736	4821	2.152	34.865	2	34.866	6	255.5	2	255.5	6
WBTSRHB	AB1302	19	1	2	2	20130226	0516	26.502N	75.903W	4452	4529	2.240	34.879	2	34.879	2	262.7	2	262.5	2

WBTSRHB	AB1302	19	1	3	2	20130226	0516	26.502N	75.903W	4179	4248	2.254	34.884	2	34.884	2	264.6	2	264.9	2
WBTSRHB	AB1302	19	1	4	2	20130226	0516	26.502N	75.903W	3916	3978	2.271	34.888	2	34.888	2	243.3	2	296.8	4
WBTSRHB	AB1302	19	1	5	2	20130226	0516	26.502N	75.903W	3643	3699	2.310	34.893	2	34.893	2	245.0	2	274.2	3
WBTSRHB	AB1302	19	1	6	2	20130226	0516	26.502N	75.903W	3155	3199	2.511	34.907	2	34.907	2	268.9	2	269.7	2
WBTSRHB	AB1302	19	1	7	2	20130226	0516	26.502N	75.903W	2664	2699	2.928	34.932	2	34.931	2	264.9	2	265.4	2
WBTSRHB	AB1302	19	1	8	2	20130226	0516	26.502N	75.903W	2221	2248	3.355	34.954	2	34.954	2	262.5	2	263.0	2
WBTSRHB	AB1302	19	1	9	2	20130226	0516	26.502N	75.903W	1878	1899	3.695	34.962	2	34.962	2	262.7	2	262.8	2
WBTSRHB	AB1302	19	1	10	2	20130226	0516	26.502N	75.903W	1632	1649	4.039	34.980	2	34.980	2	258.6	2	258.9	2
WBTSRHB	AB1302	19	1	11	2	20130226	0516	26.502N	75.903W	1369	1383	4.554	35.007	2	35.007	2	233.0	2	252.2	3
WBTSRHB	AB1302	19	1	12	2	20130226	0516	26.502N	75.903W	1201	1213	5.164	35.041	2	35.043	2	232.6	2	233.2	2
WBTSRHB	AB1302	19	1	13	2	20130226	0516	26.502N	75.903W	1034	1043	6.396	35.075	2	35.076	2	192.5	2	193.2	2
WBTSRHB	AB1302	19	1	14	2	20130226	0516	26.502N	75.903W	926	934	8.079	35.122	2	35.122	2	143.5	2	159.1	4
WBTSRHB	AB1302	19	1	15	2	20130226	0516	26.502N	75.903W	816	823	9.825	35.271	2	35.272	2	141.3	2	141.4	2
WBTSRHB	AB1302	19	1	16	2	20130226	0516	26.502N	75.903W	707	712	12.168	35.569	2	35.567	2	146.4	2	146.0	2
WBTSRHB	AB1302	19	1	17	2	20130226	0516	26.502N	75.903W	598	603	14.501	35.923	2	35.923	2	150.9	2	170.6	4
WBTSRHB	AB1302	19	1	18	2	20130226	0516	26.502N	75.903W	490	494	16.731	36.313	2	36.315	2	174.6	2	200.3	3
WBTSRHB	AB1302	19	1	19	2	20130226	0516	26.502N	75.903W	381	384	17.886	36.526	2	36.528	2	197.9	2	197.6	2
WBTSRHB	AB1302	19	1	20	2	20130226	0516	26.502N	75.903W	271	273	18.652	36.614	2	36.613	2	190.0	2	190.4	2
WBTSRHB	AB1302	19	1	21	2	20130226	0516	26.502N	75.903W	183	184	20.469	36.696	2	36.694	2	198.5	2	198.2	2
WBTSRHB	AB1302	19	1	22	2	20130226	0516	26.502N	75.903W	118	119	21.805	36.663	2	36.663	2	214.7	2	214.4	2
WBTSRHB	AB1302	19	1	23	2	20130226	0516	26.502N	75.903W	69	69	22.873	36.595	2	36.600	2	212.5	2	212.1	2
WBTSRHB	AB1302	19	1	24	2	20130226	0516	26.502N	75.903W	3	3	23.825	36.590	2	36.590	2	210.4	2	210.0	2
WBTSRHB	AB1302	20	1	1	2	20130226	0944	26.502N	76.090W	4794	4881	2.225	34.872	2	34.874	2	258.6	2	258.6	6
WBTSRHB	AB1302	20	1	2	2	20130226	0944	26.502N	76.090W	4520	4599	2.250	34.879	2	34.879	2	262.6	2	262.5	2
WBTSRHB	AB1302	20	1	3	2	20130226	0944	26.502N	76.090W	4111	4179	2.267	34.885	2	34.885	2	242.1	2	266.8	3
WBTSRHB	AB1302	20	1	4	2	20130226	0944	26.502N	76.090W	3779	3839	2.294	34.891	2	34.891	2	267.3	2	267.9	2
WBTSRHB	AB1302	20	1	5	2	20130226	0944	26.502N	76.090W	3447	3499	2.381	34.898	2	34.896	6	268.8	2	269.2	2
WBTSRHB	AB1302	20	1	6	2	20130226	0944	26.502N	76.090W	2958	2999	2.702	34.918	2	34.918	2	267.0	2	267.4	2
WBTSRHB	AB1302	20	1	7	2	20130226	0944	26.502N	76.090W	2468	2499	3.121	34.943	2	34.942	2	263.2	2	263.4	2
WBTSRHB	AB1302	20	1	8	2	20130226	0944	26.502N	76.090W	2071	2095	3.502	34.957	2	34.957	2	262.7	2	262.8	2
WBTSRHB	AB1302	20	1	9	2	20130226	0944	26.502N	76.090W	1780	1799	3.849	34.971	2	34.970	2	260.9	2	260.9	2
WBTSRHB	AB1302	20	1	10	2	20130226	0944	26.502N	76.090W	1583	1599	4.131	34.986	2	34.987	2	257.0	2	256.7	2
WBTSRHB	AB1302	20	1	11	2	20130226	0944	26.502N	76.090W	1355	1369	4.590	35.012	2	35.015	4	248.0	2	248.3	2
WBTSRHB	AB1302	20	1	12	2	20130226	0944	26.502N	76.090W	1187	1198	5.251	35.045	2	35.046	2	230.1	2	230.5	2
WBTSRHB	AB1302	20	1	13	2	20130226	0944	26.502N	76.090W	1020	1029	6.904	35.084	2	35.084	2	167.5	2	182.4	4
WBTSRHB	AB1302	20	1	14	2	20130226	0944	26.502N	76.090W	911	919	8.506	35.149	2	35.150	2	147.7	2	148.8	2
WBTSRHB	AB1302	20	1	15	2	20130226	0944	26.502N	76.090W	800	806	10.477	35.339	2	35.340	2	139.1	2	138.9	2
WBTSRHB	AB1302	20	1	16	2	20130226	0944	26.502N	76.090W	692	698	12.763	35.655	2	35.649	2	146.4	2	148.0	2
WBTSRHB	AB1302	20	1	17	2	20130226	0944	26.502N	76.090W	584	589	14.889	35.986	2	35.983	2	162.9	2	162.4	2
WBTSRHB	AB1302	20	1	18	2	20130226	0944	26.502N	76.090W	474	478	16.881	36.340	2	36.340	2	185.5	2	185.9	2
WBTSRHB	AB1302	20	1	19	2	20130226	0944	26.502N	76.090W	366	369	17.977	36.536	2	36.537	2	195.9	2	196.2	2
WBTSRHB	AB1302	20	1	20	2	20130226	0944	26.502N	76.090W	257	259	19.023	36.653	2	36.654	2	185.3	2	185.3	2
WBTSRHB	AB1302	20	1	21	2	20130226	0944	26.502N	76.090W	167	169	21.048	36.761	2	36.761	2	193.3	2	193.0	2
WBTSRHB	AB1302	20	1	22	2	20130226	0944	26.502N	76.090W	93	94	23.173	36.570	2	36.569	2	196.8	2	201.1	3
WBTSRHB	AB1302	20	1	23	2	20130226	0944	26.502N	76.090W	43	43	23.642	36.601	2	36.600	2	209.3	2	210.2	2
WBTSRHB	AB1302	20	1	24	2	20130226	0944	26.502N	76.090W	3	4	23.772	36.586	2	36.586	2	210.0	2	209.6	2
WBTSRHB	AB1302	21	1	1	2	20130226	1405	26.501N	76.218W	4806	4893	2.241	34.874	2	34.876	6	259.4	2	259.5	6
WBTSRHB	AB1302	21	1	2	2	20130226	1405	26.501N	76.218W	4423	4499	2.262	34.882	2	34.883	2	263.9	2	264.0	2
WBTSRHB	AB1302	21	1	3	2	20130226	1405	26.501N	76.218W	4033	4099	2.284	34.888	2	34.889	2	266.1	2	266.4	2
WBTSRHB	AB1302	21	1	4	2	20130226	1405	26.501N	76.218W	3672	3729	2.330	34.893	2	34.894	2	268.1	2	268.5	2
WBTSRHB	AB1302	21	1	5	2	20130226	1405	26.501N	76.218W	3301	3349	2.466	34.906	2	34.907	3	269.4	2	269.5	2
WBTSRHB	AB1302	21	1	6	2	20130226	1405	26.501N	76.218W	2811	2849	2.806	34.924	2	34.925	2	266.3	2	266.5	2
WBTSRHB	AB1302	21	1	7	2	20130226	1405	26.501N	76.218W	2370	2399	3.242	34.952	2	34.952	3	262.5	2	262.7	2
WBTSRHB	AB1302	21	1	8	2	20130226	1405	26.501N	76.218W	2075	2099	3.515	34.959	2	34.960	2	262.6	2	262.7	2
WBTSRHB	AB1302	21	1	9	2	20130226	1405	26.501N	76.218W	1759	1778	3.879	34.972	2	34.972	2	260.4	2	260.5	2
WBTSRHB	AB1302	21	1	10	2	20130226	1405	26.501N	76.218W	1591	1608	4.118	34.986	2	34.987	2	257.3	2	257.2	2
WBTSRHB	AB1302	21	1	11	2	20130226	1405	26.501N	76.218W	1424	1439	4.423	35.004	2	35.005	2	234.8	2	257.8	4
WBTSRHB	AB1302	21	1	12	2	20130226	1405	26.501N	76.218W	1257	1269	4.859	35.028	2	35.029	3	225.8	2	250.5	4
WBTSRHB	AB1302	21	1	13	2	20130226	1405	26.501N	76.218W	1089	1099	5.966	35.067	2	35.069	2	207.0	2	208.5	2
WBTSRHB	AB1302	21	1	14	2	20130226	1405	26.501N	76.218W	925	933	7.872	35.115	2	35.116	2	147.2	2	161.2	3
WBTSRHB	AB1302	21	1	15	2	20130226	1405	26.501N	76.218W	816	823	9.718	35.255	2	35.253	2	140.4	2	140.6	2
WBTSRHB	AB1302	21	1	16	2	20130226	1405	26.501N	76.218W	708	714	12.144	35.564	2	35.563	2	145.3	2	145.6	2
WBTSRHB	AB1302	21	1	17	2	20130226	1405	26.501N	76.218W	593	598	14.618	35.939	2	35.934	2	158.8	2	159.0	2
WBTSRHB	AB1302	21	1	18	2	20130226	1405	26.501N	76.218W	490	493	16.845	36.332	2	36.327	2	184.6	2	184.1	2
WBTSRHB	AB1302	21	1	19	2	20130226	1405	26.501N	76.218W	381	384	17.970	36.537	2	36.538	2	196.0	2	197.1	2
WBTSRHB	AB1302	21	1	20	2	20130226	1405	26.501N	76.218W	272	274	18.860	36.641	2	36.640	2	186.2	2	187.4	2

WBTSRHB	AB1302	21	1	21	2	20130226	1405	26.501N	76.218W	183	185	20.685	36.729	2	36.729	2	193.0	2	193.3	2
WBTSRHB	AB1302	21	1	22	2	20130226	1405	26.501N	76.218W	114	115	23.006	36.746	2	36.745	2	193.1	2	201.0	3
WBTSRHB	AB1302	21	1	23	2	20130226	1405	26.501N	76.218W	63	63	23.565	36.605	2	36.610	2	208.6	2	209.7	2
WBTSRHB	AB1302	21	1	24	2	20130226	1405	26.501N	76.218W	3	3	23.851	36.583	2	36.584	2	210.9	2	209.6	2
WBTSRHB	AB1302	22	1	1	2	20130226	1828	26.500N	76.347W	4848	4936	2.241	34.873	2	34.874	2	259.1	2	258.7	2
WBTSRHB	AB1302	22	1	2	2	20130226	1828	26.500N	76.347W	4500	4578	2.252	34.880	2	34.881	2	262.9	2	262.8	2
WBTSRHB	AB1302	22	1	3	2	20130226	1828	26.500N	76.347W	4169	4238	2.273	34.885	2	34.886	2	265.3	2	265.8	2
WBTSRHB	AB1302	22	1	4	2	20130226	1828	26.500N	76.347W	3839	3900	2.298	34.890	2	34.890	6	267.0	2	267.4	2
WBTSRHB	AB1302	22	1	5	2	20130226	1828	26.500N	76.347W	3511	3564	2.384	34.898	2	34.898	2	268.4	2	270.0	2
WBTSRHB	AB1302	22	1	6	2	20130226	1828	26.500N	76.347W	3100	3144	2.581	34.911	2	34.911	2	268.3	2	269.1	2
WBTSRHB	AB1302	22	1	7	2	20130226	1828	26.500N	76.347W	2699	2734	2.913	34.930	2	34.930	2	265.5	2	265.8	2
WBTSRHB	AB1302	22	1	8	2	20130226	1828	26.500N	76.347W	2291	2318	3.353	34.955	2	34.956	2	261.9	2	262.2	6
WBTSRHB	AB1302	22	1	9	2	20130226	1828	26.500N	76.347W	1933	1954	3.679	34.962	2	34.962	2	262.6	2	262.8	2
WBTSRHB	AB1302	22	1	10	2	20130226	1828	26.500N	76.347W	1682	1700	4.013	34.979	2	34.979	2	258.8	2	258.9	2
WBTSRHB	AB1302	22	1	11	2	20130226	1828	26.500N	76.347W	1485	1500	4.293	34.997	2	34.998	2	254.2	2	253.9	2
WBTSRHB	AB1302	22	1	12	2	20130226	1828	26.500N	76.347W	1337	1350	4.657	35.016	2	35.017	2	246.9	2	246.6	2
WBTSRHB	AB1302	22	1	13	2	20130226	1828	26.500N	76.347W	1163	1174	5.367	35.048	2	35.050	2	226.3	2	227.3	2
WBTSRHB	AB1302	22	1	14	2	20130226	1828	26.500N	76.347W	975	984	6.913	35.085	2	35.085	2	178.6	2	180.0	2
WBTSRHB	AB1302	22	1	15	2	20130226	1828	26.500N	76.347W	798	805	9.993	35.288	2	35.284	2	140.5	2	140.4	2
WBTSRHB	AB1302	22	1	16	2	20130226	1828	26.500N	76.347W	689	694	12.497	35.618	2	35.605	3	146.4	2	146.2	2
WBTSRHB	AB1302	22	1	17	2	20130226	1828	26.500N	76.347W	579	584	15.069	36.018	2	36.016	2	166.2	2	166.2	2
WBTSRHB	AB1302	22	1	18	2	20130226	1828	26.500N	76.347W	471	474	17.099	36.378	2	36.377	2	188.5	2	187.5	2
WBTSRHB	AB1302	22	1	19	2	20130226	1828	26.500N	76.347W	362	365	18.010	36.540	2	36.541	2	194.2	2	195.6	2
WBTSRHB	AB1302	22	1	20	2	20130226	1828	26.500N	76.347W	253	255	19.257	36.662	2	36.662	2	185.8	2	186.9	2
WBTSRHB	AB1302	22	1	21	2	20130226	1828	26.500N	76.347W	162	163	22.052	36.789	2	36.789	2	195.1	2	193.8	2
WBTSRHB	AB1302	22	1	22	2	20130226	1828	26.500N	76.347W	95	95	23.428	36.600	2	36.599	2	209.8	2	209.9	2
WBTSRHB	AB1302	22	1	23	2	20130226	1828	26.500N	76.347W	55	56	23.645	36.595	2	36.595	2	208.9	2	210.2	2
WBTSRHB	AB1302	22	1	24	2	20130226	1828	26.500N	76.347W	3	3	24.125	36.603	2	36.602	2	210.1	2	209.2	2
WBTSRHB	AB1302	23	1	1	2	20130226	2244	26.500N	76.475W	4831	4918	2.261	34.876	2	34.878	2	235.9	2	260.4	3
WBTSRHB	AB1302	23	1	2	2	20130226	2244	26.500N	76.475W	4452	4529	2.250	34.880	2	34.880	2	263.2	2	262.8	2
WBTSRHB	AB1302	23	1	3	2	20130226	2244	26.500N	76.475W	4092	4159	2.273	34.886	2	34.886	2	265.7	2	266.0	2
WBTSRHB	AB1302	23	1	4	2	20130226	2244	26.500N	76.475W	3712	3769	2.329	34.893	2	34.893	2	268.0	2	268.4	2
WBTSRHB	AB1302	23	1	5	2	20130226	2244	26.500N	76.475W	3360	3410	2.465	34.903	2	34.903	2	269.3	2	269.2	2
WBTSRHB	AB1302	23	1	6	2	20130226	2244	26.500N	76.475W	2954	2994	2.713	34.917	2	34.917	2	267.8	2	268.6	2
WBTSRHB	AB1302	23	1	7	2	20130226	2244	26.500N	76.475W	2547	2579	3.079	34.939	2	34.939	2	263.5	2	264.2	2
WBTSRHB	AB1302	23	1	8	2	20130226	2244	26.500N	76.475W	2139	2164	3.432	34.955	2	34.955	2	262.8	2	263.0	2
WBTSRHB	AB1302	23	1	9	2	20130226	2244	26.500N	76.475W	1836	1856	3.756	34.963	2	34.963	2	262.1	2	262.1	2
WBTSRHB	AB1302	23	1	10	2	20130226	2244	26.500N	76.475W	1579	1596	4.108	34.984	2	34.984	2	257.7	2	257.3	2
WBTSRHB	AB1302	23	1	11	2	20130226	2244	26.500N	76.475W	1388	1402	4.419	35.002	2	35.003	2	252.2	2	251.6	2
WBTSRHB	AB1302	23	1	12	2	20130226	2244	26.500N	76.475W	1218	1230	5.069	35.043	2	35.044	2	235.3	2	235.1	2
WBTSRHB	AB1302	23	1	13	2	20130226	2244	26.500N	76.475W	1050	1059	5.951	35.070	2	35.066	3	192.6	2	207.7	3
WBTSRHB	AB1302	23	1	14	2	20130226	2244	26.500N	76.475W	941	949	7.172	35.091	2	35.089	2	161.5	2	173.5	3
WBTSRHB	AB1302	23	1	15	2	20130226	2244	26.500N	76.475W	832	839	9.449	35.230	2	35.227	2	141.6	2	141.8	2
WBTSRHB	AB1302	23	1	16	2	20130226	2244	26.500N	76.475W	723	729	11.493	35.475	2	35.470	2	142.1	2	141.9	2
WBTSRHB	AB1302	23	1	17	2	20130226	2244	26.500N	76.475W	614	619	14.014	35.846	2	35.843	2	158.1	2	157.9	2
WBTSRHB	AB1302	23	1	18	2	20130226	2244	26.500N	76.475W	506	510	16.709	36.306	2	36.305	2	182.8	2	183.1	2
WBTSRHB	AB1302	23	1	19	2	20130226	2244	26.500N	76.475W	396	399	17.967	36.534	2	36.534	2	195.4	2	195.9	2
WBTSRHB	AB1302	23	1	20	2	20130226	2244	26.500N	76.475W	287	289	18.715	36.624	2	36.625	2	188.3	2	188.8	2
WBTSRHB	AB1302	23	1	21	2	20130226	2244	26.500N	76.475W	198	199	20.783	36.760	2	36.763	2	188.5	2	188.7	2
WBTSRHB	AB1302	23	1	22	2	20130226	2244	26.500N	76.475W	118	119	23.371	36.628	2	36.631	2	209.5	2	207.2	2
WBTSRHB	AB1302	23	1	23	2	20130226	2244	26.500N	76.475W	69	69	23.823	36.607	2	36.607	2	208.4	2	208.6	2
WBTSRHB	AB1302	23	1	24	2	20130226	2244	26.500N	76.475W	3	3	24.137	36.604	2	36.601	2	197.0	2	220.3	3
WBTSRHB	AB1302	24	1	1	2	20130227	0505	26.501N	76.563W	4825	4912	2.289	34.879	2	34.880	6	262.5	2	262.4	6
WBTSRHB	AB1302	24	1	2	2	20130227	0505	26.501N	76.563W	4519	4598	2.261	34.880	2	34.880	2	239.4	2	247.8	4
WBTSRHB	AB1302	24	1	3	2	20130227	0505	26.501N	76.563W	4130	4198	2.249	34.883	2	34.884	2	264.7	2	265.0	2
WBTSRHB	AB1302	24	1	4	2	20130227	0505	26.501N	76.563W	3740	3798	2.318	34.892	2	34.891	2	268.2	2	269.3	2
WBTSRHB	AB1302	24	1	5	2	20130227	0505	26.501N	76.563W	3350	3399	2.461	34.903	2	34.903	2	268.9	2	269.5	2
WBTSRHB	AB1302	24	1	6	2	20130227	0505	26.501N	76.563W	2958	2999	2.808	34.923	2	34.923	2	266.2	2	266.9	2
WBTSRHB	AB1302	24	1	7	2	20130227	0505	26.501N	76.563W	2468	2499	3.128	34.941	2	34.941	2	263.9	2	264.0	2
WBTSRHB	AB1302	24	1	8	2	20130227	0505	26.501N	76.563W	1975	1998	3.599	34.957	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	24	1	9	2	20130227	0505	26.501N	76.563W	1731	1750	3.679	34.958	2	34.958	2	263.2	2	262.6	2
WBTSRHB	AB1302	24	1	10	2	20130227	0505	26.501N	76.563W	1514	1530	4.078	34.980	2	34.980	2	259.3	2	257.9	2
WBTSRHB	AB1302	24	1	11	2	20130227	0505	26.501N	76.563W	1322	1335	4.608	35.013	2	35.014	2	247.8	2	247.1	2
WBTSRHB	AB1302	24	1	12	2	20130227	0505	26.501N	76.563W	1154	1165	5.361	35.053	2	35.054	2	226.7	2	226.6	2
WBTSRHB	AB1302	24	1	13	2	20130227	0505	26.501N	76.563W	985	993	6.585	35.077	2	35.077	2	173.0	2	186.7	3
WBTSRHB	AB1302	24	1	14	2	20130227	0505	26.501N	76.563W	877	884	8.124	35.125	2	35.126	2	152.4	2	152.7	2

WBTSRHB	AB1302	24	1	15	2	20130227	0505	26.501N	76.563W	763	770	10.329	35.325	2	35.325	2	141.0	2	139.9	2
WBTSRHB	AB1302	24	1	16	2	20130227	0505	26.501N	76.563W	658	663	12.910	35.685	2	35.672	3	152.0	2	152.0	2
WBTSRHB	AB1302	24	1	17	2	20130227	0505	26.501N	76.563W	549	554	15.410	36.080	2	36.066	3	169.2	2	169.1	2
WBTSRHB	AB1302	24	1	18	2	20130227	0505	26.501N	76.563W	440	444	17.381	36.432	2	36.431	2	190.0	2	191.3	2
WBTSRHB	AB1302	24	1	19	2	20130227	0505	26.501N	76.563W	331	333	18.203	36.572	2	36.573	2	195.7	2	196.4	2
WBTSRHB	AB1302	24	1	20	2	20130227	0505	26.501N	76.563W	222	223	20.220	36.734	2	36.726	2	186.9	2	186.6	2
WBTSRHB	AB1302	24	1	21	2	20130227	0505	26.501N	76.563W	133	134	23.215	36.671	2	36.678	2	203.6	2	205.8	2
WBTSRHB	AB1302	24	1	22	2	20130227	0505	26.501N	76.563W	83	83	23.817	36.607	2	36.606	2	208.6	2	208.4	2
WBTSRHB	AB1302	24	1	23	2	20130227	0505	26.501N	76.563W	33	34	23.951	36.599	2	36.598	2	209.1	2	209.3	2
WBTSRHB	AB1302	24	1	24	2	20130227	0505	26.501N	76.563W	3	3	24.070	36.601	2	36.600	2	208.9	2	209.1	2
WBTSRHB	AB1302	25	1	1	2	20130227	0922	26.508N	76.656W	4522	4601	2.286	34.882	2	34.883	2	240.3	2	264.3	3
WBTSRHB	AB1302	25	1	2	2	20130227	0922	26.508N	76.656W	4072	4139	2.275	34.886	2	34.885	2	265.8	2	265.8	2
WBTSRHB	AB1302	25	1	3	2	20130227	0922	26.508N	76.656W	3668	3724	2.310	34.892	2	34.891	2	267.6	2	267.7	2
WBTSRHB	AB1302	25	1	4	2	20130227	0922	26.508N	76.656W	3253	3299	2.494	34.905	2	34.904	2	268.6	2	269.0	2
WBTSRHB	AB1302	25	1	5	2	20130227	0922	26.508N	76.656W	2860	2899	2.830	34.924	2	34.924	2	266.2	2	266.7	2
WBTSRHB	AB1302	25	1	6	2	20130227	0922	26.508N	76.656W	2565	2598	3.105	34.939	2	34.939	2	263.7	2	264.1	2
WBTSRHB	AB1302	25	1	7	2	20130227	0922	26.508N	76.656W	2271	2298	3.313	34.945	2	34.945	2	244.6	2	266.4	3
WBTSRHB	AB1302	25	1	8	2	20130227	0922	26.508N	76.656W	2075	2099	3.479	34.952	2	34.952	2	263.7	2	264.2	2
WBTSRHB	AB1302	25	1	9	2	20130227	0922	26.508N	76.656W	1878	1899	3.576	34.956	2	34.955	2	263.8	2	263.7	2
WBTSRHB	AB1302	25	1	10	2	20130227	0922	26.508N	76.656W	1583	1600	3.937	34.971	2	34.971	2	260.0	2	260.1	2
WBTSRHB	AB1302	25	1	11	2	20130227	0922	26.508N	76.656W	1384	1398	4.349	34.994	2	34.996	2	253.7	2	253.6	2
WBTSRHB	AB1302	25	1	12	2	20130227	0922	26.508N	76.656W	1209	1220	4.780	35.023	2	35.023	2	242.9	2	244.0	2
WBTSRHB	AB1302	25	1	13	2	20130227	0922	26.508N	76.656W	1030	1039	5.872	35.064	2	35.066	2	210.5	2	211.1	2
WBTSRHB	AB1302	25	1	14	2	20130227	0922	26.508N	76.656W	901	909	7.344	35.098	2	35.099	2	170.5	2	170.0	2
WBTSRHB	AB1302	25	1	15	2	20130227	0922	26.508N	76.656W	792	798	9.427	35.233	2	35.230	2	142.8	2	142.8	2
WBTSRHB	AB1302	25	1	16	2	20130227	0922	26.508N	76.656W	683	689	11.968	35.538	2	35.537	2	142.6	2	143.3	2
WBTSRHB	AB1302	25	1	17	2	20130227	0922	26.508N	76.656W	575	579	14.672	35.951	2	35.950	2	162.4	2	162.8	2
WBTSRHB	AB1302	25	1	18	2	20130227	0922	26.508N	76.656W	465	468	17.117	36.380	2	36.382	2	187.4	2	186.7	2
WBTSRHB	AB1302	25	1	19	2	20130227	0922	26.508N	76.656W	355	358	18.136	36.559	2	36.559	2	196.3	2	195.2	2
WBTSRHB	AB1302	25	1	20	2	20130227	0922	26.508N	76.656W	248	250	19.548	36.674	2	36.676	2	185.3	2	187.1	2
WBTSRHB	AB1302	25	1	21	2	20130227	0922	26.508N	76.656W	158	159	23.114	36.756	2	36.750	2	199.4	2	199.6	2
WBTSRHB	AB1302	25	1	22	2	20130227	0922	26.508N	76.656W	108	109	23.657	36.585	2	36.586	2	209.2	2	209.0	2
WBTSRHB	AB1302	25	1	23	2	20130227	0922	26.508N	76.656W	58	59	23.846	36.605	2	36.605	2	208.3	2	208.9	2
WBTSRHB	AB1302	25	1	24	2	20130227	0922	26.508N	76.656W	3	3	24.046	36.603	2	36.606	2	208.7	2	208.9	2
WBTSRHB	AB1302	26	1	1	2	20130227	1325	26.501N	76.744W	3853	3914	2.259	34.887	2	34.887	6	265.8	2	265.9	6
WBTSRHB	AB1302	26	1	2	2	20130227	1325	26.501N	76.744W	3497	3549	2.351	34.895	2	34.896	2	268.4	2	268.6	2
WBTSRHB	AB1302	26	1	3	2	20130227	1325	26.501N	76.744W	3095	3139	2.562	34.909	2	34.909	2	268.4	2	268.7	2
WBTSRHB	AB1302	26	1	4	2	20130227	1325	26.501N	76.744W	2958	2999	2.672	34.916	2	34.917	2	267.8	2	268.3	2
WBTSRHB	AB1302	26	1	5	2	20130227	1325	26.501N	76.744W	2663	2698	2.977	34.934	2	34.933	2	264.2	2	265.0	2
WBTSRHB	AB1302	26	1	6	2	20130227	1325	26.501N	76.744W	2468	2499	3.140	34.940	2	34.942	2	243.8	2	255.3	4
WBTSRHB	AB1302	26	1	7	2	20130227	1325	26.501N	76.744W	2174	2199	3.368	34.954	2	34.954	3	263.1	2	263.3	2
WBTSRHB	AB1302	26	1	8	2	20130227	1325	26.501N	76.744W	1879	1900	3.635	34.956	2	34.956	2	263.7	2	263.1	2
WBTSRHB	AB1302	26	1	9	2	20130227	1325	26.501N	76.744W	1681	1699	3.927	34.970	2	34.972	2	260.2	2	260.0	2
WBTSRHB	AB1302	26	1	10	2	20130227	1325	26.501N	76.744W	1532	1548	4.444	34.996	2	34.997	2	251.3	2	251.2	2
WBTSRHB	AB1302	26	1	11	2	20130227	1325	26.501N	76.744W	1385	1399	4.518	35.000	2	35.001	2	249.8	2	249.0	2
WBTSRHB	AB1302	26	1	12	2	20130227	1325	26.501N	76.744W	1236	1248	4.660	35.013	2	35.013	3	246.8	2	245.9	2
WBTSRHB	AB1302	26	1	13	2	20130227	1325	26.501N	76.744W	1088	1098	5.316	35.053	2	35.056	4	228.7	2	228.4	2
WBTSRHB	AB1302	26	1	14	2	20130227	1325	26.501N	76.744W	940	949	6.349	35.078	2	35.079	2	183.5	2	197.6	3
WBTSRHB	AB1302	26	1	15	2	20130227	1325	26.501N	76.744W	807	814	8.991	35.194	2	35.193	2	145.5	2	146.1	2
WBTSRHB	AB1302	26	1	16	2	20130227	1325	26.501N	76.744W	693	699	11.373	35.462	2	35.456	2	144.2	2	143.8	2
WBTSRHB	AB1302	26	1	17	2	20130227	1325	26.501N	76.744W	589	594	13.962	35.838	2	35.835	2	157.2	2	157.5	2
WBTSRHB	AB1302	26	1	18	2	20130227	1325	26.501N	76.744W	480	483	16.879	36.338	2	36.331	2	185.6	2	185.1	2
WBTSRHB	AB1302	26	1	19	2	20130227	1325	26.501N	76.744W	371	374	18.005	36.538	2	36.540	2	194.2	2	194.9	2
WBTSRHB	AB1302	26	1	20	2	20130227	1325	26.501N	76.744W	262	264	19.374	36.676	2	36.678	2	184.8	2	184.7	2
WBTSRHB	AB1302	26	1	21	2	20130227	1325	26.501N	76.744W	172	173	22.550	36.775	2	36.780	2	197.8	2	197.5	2
WBTSRHB	AB1302	26	1	22	2	20130227	1325	26.501N	76.744W	93	94	23.779	36.597	2	36.597	2	207.6	2	208.6	2
WBTSRHB	AB1302	26	1	23	2	20130227	1325	26.501N	76.744W	44	44	23.896	36.606	2	36.606	2	208.5	2	208.9	2
WBTSRHB	AB1302	26	1	24	2	20130227	1325	26.501N	76.744W	3	3	24.100	36.610	2	36.610	2	209.0	2	208.6	2
WBTSRHB	AB1302	27	1	1	2	20130227	1622	26.517N	76.834W	1076	1086	5.181	35.033	2	35.036	6	231.8	2	231.0	6
WBTSRHB	AB1302	27	1	2	2	20130227	1622	26.517N	76.834W	989	998	5.646	35.054	2	35.057	2	217.3	2	217.8	2
WBTSRHB	AB1302	27	1	3	2	20130227	1622	26.517N	76.834W	890	898	6.766	35.086	2	35.087	2	173.7	2	187.7	3
WBTSRHB	AB1302	27	1	4	2	20130227	1622	26.517N	76.834W	792	799	8.297	35.156	2	35.156	2	154.8	2	155.1	2
WBTSRHB	AB1302	27	1	5	2	20130227	1622	26.517N	76.834W	694	700	10.929	35.403	2	35.404	2	141.7	2	141.5	2
WBTSRHB	AB1302	27	1	6	2	20130227	1622	26.517N	76.834W	593	598	13.271	35.731	2	35.734	2	152.1	2	151.4	2
WBTSRHB	AB1302	27	1	7	2	20130227	1622	26.517N	76.834W	495	499	16.063	36.189	2	36.193	2	177.6	2	177.2	2
WBTSRHB	AB1302	27	1	8	2	20130227	1622	26.517N	76.834W	386	389	17.901	36.526	2	-999.000	9	-999.0	9	-999.0	9

WBTSRHB	AB1302	27	1	9	2	20130227	1622	26.517N	76.834W	278	280	19.309	36.696	2	36.702	2	173.3	2	171.0	2
WBTSRHB	AB1302	27	1	10	2	20130227	1622	26.517N	76.834W	188	190	22.335	36.780	2	36.783	2	195.4	2	195.0	2
WBTSRHB	AB1302	27	1	11	2	20130227	1622	26.517N	76.834W	119	119	23.847	36.602	2	36.608	2	208.3	2	207.0	2
WBTSRHB	AB1302	27	1	12	2	20130227	1622	26.517N	76.834W	68	69	23.849	36.601	2	36.604	2	208.3	2	208.4	2
WBTSRHB	AB1302	27	1	13	2	20130227	1622	26.517N	76.834W	3	3	24.075	36.594	2	36.595	2	209.2	2	208.9	2
WBTSRHB	AB1302	27	1	14	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	15	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	16	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	17	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	18	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	19	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	20	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	21	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	22	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	23	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	27	1	24	2	20130227	1622	26.517N	76.834W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	1	2	20130227	1844	26.524N	76.892W	327	329	18.607	36.605	2	36.604	2	189.7	2	189.9	6
WBTSRHB	AB1302	28	1	2	2	20130227	1844	26.524N	76.892W	267	269	19.799	36.700	2	36.702	2	186.1	2	185.6	2
WBTSRHB	AB1302	28	1	3	2	20130227	1844	26.524N	76.892W	207	209	21.593	36.777	2	36.777	2	193.7	2	193.4	2
WBTSRHB	AB1302	28	1	4	2	20130227	1844	26.524N	76.892W	158	159	23.373	36.619	2	36.625	6	206.6	2	206.5	2
WBTSRHB	AB1302	28	1	5	2	20130227	1844	26.524N	76.892W	108	109	23.681	36.605	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	6	2	20130227	1844	26.524N	76.892W	54	54	23.786	36.592	2	36.594	2	210.3	2	209.9	2
WBTSRHB	AB1302	28	1	7	2	20130227	1844	26.524N	76.892W	3	3	24.015	36.575	2	36.577	2	209.7	2	209.4	2
WBTSRHB	AB1302	28	1	8	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	9	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	10	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	11	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	12	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	13	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	14	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	15	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	16	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	17	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	18	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	19	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	20	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	21	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	22	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	23	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	28	1	24	2	20130227	1844	26.524N	76.892W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	1	2	20130228	0828	26.433N	78.669W	753	760	9.030	35.241	2	35.243	2	156.0	2	156.7	2
WBTSRHB	AB1302	29	1	2	2	20130228	0828	26.433N	78.669W	644	649	11.639	35.504	2	35.504	2	144.7	2	145.2	2
WBTSRHB	AB1302	29	1	3	2	20130228	0828	26.433N	78.669W	545	549	14.043	35.855	2	35.855	6	158.2	2	158.5	6
WBTSRHB	AB1302	29	1	4	2	20130228	0828	26.433N	78.669W	445	449	16.737	36.314	2	36.310	2	184.4	2	184.0	2
WBTSRHB	AB1302	29	1	5	2	20130228	0828	26.433N	78.669W	347	349	17.900	36.524	2	36.526	2	195.2	2	195.8	2
WBTSRHB	AB1302	29	1	6	2	20130228	0828	26.433N	78.669W	267	269	19.090	36.652	2	36.655	2	185.8	2	185.8	2
WBTSRHB	AB1302	29	1	7	2	20130228	0828	26.433N	78.669W	208	210	20.899	36.733	2	36.736	2	193.5	2	193.3	2
WBTSRHB	AB1302	29	1	8	2	20130228	0828	26.433N	78.669W	148	149	23.398	36.661	2	36.669	2	199.6	2	199.2	2
WBTSRHB	AB1302	29	1	9	2	20130228	0828	26.433N	78.669W	99	99	23.882	36.527	2	36.533	2	202.5	2	202.1	2
WBTSRHB	AB1302	29	1	10	2	20130228	0828	26.433N	78.669W	49	49	24.196	36.460	2	36.466	2	203.7	2	207.1	2
WBTSRHB	AB1302	29	1	11	2	20130228	0828	26.433N	78.669W	4	4	24.645	36.343	2	36.344	2	205.9	2	206.1	2
WBTSRHB	AB1302	29	1	12	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	13	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	14	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	15	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	16	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	17	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	18	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	19	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	20	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	21	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	22	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	23	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	29	1	24	2	20130228	0828	26.433N	78.669W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	1	2	20130228	1056	26.335N	78.741W	670	675	10.278	35.276	2	35.274	2	132.0	2	132.1	2
WBTSRHB	AB1302	30	1	2	2	20130228	1056	26.335N	78.741W	594	599	12.065	35.516	2	35.514	6	136.5	2	134.6	6

WBTSRHB	AB1302	30	1	3	2	20130228	1056	26.335N	78.741W	495	499	15.922	36.170	2	36.138	4	174.1	2	172.7	2
WBTSRHB	AB1302	30	1	4	2	20130228	1056	26.335N	78.741W	396	399	17.345	36.427	2	36.429	2	191.3	2	190.8	2
WBTSRHB	AB1302	30	1	5	2	20130228	1056	26.335N	78.741W	306	308	18.326	36.583	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	6	2	20130228	1056	26.335N	78.741W	227	229	20.248	36.698	2	36.700	2	191.1	2	191.3	2
WBTSRHB	AB1302	30	1	7	2	20130228	1056	26.335N	78.741W	178	179	22.232	36.753	2	36.757	2	197.1	2	197.1	2
WBTSRHB	AB1302	30	1	8	2	20130228	1056	26.335N	78.741W	133	134	23.343	36.582	2	36.592	2	199.2	2	200.1	2
WBTSRHB	AB1302	30	1	9	2	20130228	1056	26.335N	78.741W	83	84	24.161	36.500	2	36.515	3	200.1	2	198.3	2
WBTSRHB	AB1302	30	1	10	2	20130228	1056	26.335N	78.741W	44	44	24.347	36.405	2	36.413	2	205.8	2	205.3	2
WBTSRHB	AB1302	30	1	11	2	20130228	1056	26.335N	78.741W	3	3	24.904	36.265	2	36.266	2	204.6	2	204.4	2
WBTSRHB	AB1302	30	1	12	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	13	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	14	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	15	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	16	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	17	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	18	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	19	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	20	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	21	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	22	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	23	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	30	1	24	2	20130228	1056	26.335N	78.741W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	1	2	20130228	1250	26.255N	78.770W	512	516	14.286	35.863	2	35.859	6	144.2	2	142.5	6
WBTSRHB	AB1302	31	1	2	2	20130228	1250	26.255N	78.770W	396	399	17.136	36.390	2	36.390	2	189.4	2	188.9	2
WBTSRHB	AB1302	31	1	3	2	20130228	1250	26.255N	78.770W	297	299	18.386	36.586	2	36.587	2	191.7	2	191.7	2
WBTSRHB	AB1302	31	1	4	2	20130228	1250	26.255N	78.770W	207	208	20.993	36.737	2	36.739	2	191.8	2	192.4	2
WBTSRHB	AB1302	31	1	5	2	20130228	1250	26.255N	78.770W	143	144	23.695	36.609	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	6	2	20130228	1250	26.255N	78.770W	94	94	23.856	36.583	2	36.589	2	205.8	2	205.5	2
WBTSRHB	AB1302	31	1	7	2	20130228	1250	26.255N	78.770W	43	44	24.359	36.431	2	36.434	2	206.7	2	206.6	2
WBTSRHB	AB1302	31	1	8	2	20130228	1250	26.255N	78.770W	3	3	24.963	36.240	2	36.244	2	203.9	2	204.5	2
WBTSRHB	AB1302	31	1	9	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	10	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	11	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	12	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	13	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	14	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	15	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	16	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	17	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	18	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	19	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	20	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	21	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	22	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	23	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	31	1	24	2	20130228	1250	26.255N	78.770W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	1	2	20130228	1424	26.167N	78.798W	450	454	14.750	35.951	2	35.963	2	151.4	2	151.4	2
WBTSRHB	AB1302	32	1	2	2	20130228	1424	26.167N	78.798W	366	369	17.366	36.430	2	36.428	6	189.8	2	189.6	6
WBTSRHB	AB1302	32	1	3	2	20130228	1424	26.167N	78.798W	257	259	19.165	36.650	2	36.662	3	181.3	2	181.1	2
WBTSRHB	AB1302	32	1	4	2	20130228	1424	26.167N	78.798W	173	174	23.291	36.653	2	36.657	2	200.6	2	201.0	2
WBTSRHB	AB1302	32	1	5	2	20130228	1424	26.167N	78.798W	123	124	23.807	36.594	2	36.602	2	204.8	2	206.0	2
WBTSRHB	AB1302	32	1	6	2	20130228	1424	26.167N	78.798W	73	74	23.964	36.547	2	36.550	2	204.8	2	204.7	2
WBTSRHB	AB1302	32	1	7	2	20130228	1424	26.167N	78.798W	28	28	25.213	36.193	2	36.239	4	202.5	2	203.9	2
WBTSRHB	AB1302	32	1	8	2	20130228	1424	26.167N	78.798W	3	3	25.252	36.149	2	36.152	2	202.7	2	203.2	2
WBTSRHB	AB1302	32	1	9	2	20130228	1424	26.167N	78.798W	3	4	25.250	36.154	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	10	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	11	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	12	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	13	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	14	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	15	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	16	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	17	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	18	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	19	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	20	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9

WBTSRHB	AB1302	32	1	21	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	22	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	23	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	32	1	24	2	20130228	1424	26.167N	78.798W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	1	2	20130228	1546	26.068N	78.849W	297	299	18.627	36.562	2	36.561	6	171.2	2	171.3	2
WBTSRHB	AB1302	33	1	2	2	20130228	1546	26.068N	78.849W	247	249	19.051	36.629	2	36.629	2	180.3	2	178.4	2
WBTSRHB	AB1302	33	1	3	2	20130228	1546	26.068N	78.849W	187	189	22.523	36.749	2	36.731	3	188.5	2	187.3	2
WBTSRHB	AB1302	33	1	4	2	20130228	1546	26.068N	78.849W	138	139	23.828	36.583	2	36.587	2	205.2	2	205.1	2
WBTSRHB	AB1302	33	1	5	2	20130228	1546	26.068N	78.849W	88	89	24.694	36.329	2	36.341	2	193.9	2	193.1	2
WBTSRHB	AB1302	33	1	6	2	20130228	1546	26.068N	78.849W	48	49	25.346	36.173	2	36.178	2	201.9	2	202.4	2
WBTSRHB	AB1302	33	1	7	2	20130228	1546	26.068N	78.849W	3	3	25.384	36.140	2	36.141	2	202.3	2	202.9	2
WBTSRHB	AB1302	33	1	8	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	9	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	10	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	11	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	12	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	13	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	14	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	15	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	16	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	17	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	18	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	19	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	20	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	21	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	22	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	23	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	33	1	24	2	20130228	1546	26.068N	78.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	1	2	20130301	0008	26.051N	79.231W	318	320	17.590	36.446	2	36.453	2	179.7	2	180.9	2
WBTSRHB	AB1302	34	1	2	2	20130301	0008	26.051N	79.231W	261	262	18.970	36.620	2	36.618	2	171.1	2	173.4	2
WBTSRHB	AB1302	34	1	3	2	20130301	0008	26.051N	79.231W	201	203	20.622	36.757	2	36.760	2	165.3	2	164.3	2
WBTSRHB	AB1302	34	1	4	2	20130301	0008	26.051N	79.231W	163	164	22.284	36.766	2	36.769	2	172.9	2	172.2	2
WBTSRHB	AB1302	34	1	5	2	20130301	0008	26.051N	79.231W	100	100	24.926	36.408	2	36.412	2	196.2	2	196.7	2
WBTSRHB	AB1302	34	1	6	2	20130301	0008	26.051N	79.231W	52	52	25.087	36.370	2	36.374	2	198.9	2	199.0	2
WBTSRHB	AB1302	34	1	7	2	20130301	0008	26.051N	79.231W	3	3	25.270	36.186	2	36.198	2	203.0	2	203.1	2
WBTSRHB	AB1302	34	1	8	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	9	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	10	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	11	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	12	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	13	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	14	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	15	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	16	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	17	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	18	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	19	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	20	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	21	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	22	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	23	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	34	1	24	2	20130301	0008	26.051N	79.231W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	1	2	20130301	0122	26.053N	79.313W	481	484	14.823	35.932	2	35.932	2	142.2	2	141.9	2
WBTSRHB	AB1302	35	1	2	2	20130301	0122	26.053N	79.313W	387	390	15.596	36.062	2	36.066	2	147.1	2	146.6	2
WBTSRHB	AB1302	35	1	3	2	20130301	0122	26.053N	79.313W	337	339	16.485	36.223	2	36.222	2	155.7	2	154.8	2
WBTSRHB	AB1302	35	1	4	2	20130301	0122	26.053N	79.313W	272	274	18.126	36.529	2	36.529	2	182.3	2	182.3	2
WBTSRHB	AB1302	35	1	5	2	20130301	0122	26.053N	79.313W	218	219	19.403	36.669	2	36.664	2	168.3	2	167.0	2
WBTSRHB	AB1302	35	1	6	2	20130301	0122	26.053N	79.313W	149	150	23.206	36.857	2	36.859	2	182.9	2	182.3	2
WBTSRHB	AB1302	35	1	7	2	20130301	0122	26.053N	79.313W	91	91	25.166	36.351	2	36.349	2	200.0	2	200.3	2
WBTSRHB	AB1302	35	1	8	2	20130301	0122	26.053N	79.313W	44	45	25.572	36.122	2	36.117	2	202.2	2	202.5	2
WBTSRHB	AB1302	35	1	9	2	20130301	0122	26.053N	79.313W	3	3	25.584	36.098	2	36.100	2	202.2	2	202.8	2
WBTSRHB	AB1302	35	1	10	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	11	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	12	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	13	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	14	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9

WBTSRHB	AB1302	35	1	15	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	16	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	17	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	18	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	19	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	20	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	21	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	22	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	23	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	35	1	24	2	20130301	0122	26.053N	79.313W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	1	2	20130301	0238	26.055N	79.399W	582	587	11.214	35.361	2	35.367	2	124.5	2	123.9	2
WBTSRHB	AB1302	36	1	2	2	20130301	0238	26.055N	79.399W	477	480	13.508	35.712	2	35.713	2	134.1	2	133.6	2
WBTSRHB	AB1302	36	1	3	2	20130301	0238	26.055N	79.399W	377	379	16.019	36.133	2	36.132	2	150.0	2	149.3	2
WBTSRHB	AB1302	36	1	4	2	20130301	0238	26.055N	79.399W	297	300	17.008	36.304	2	36.304	2	156.7	2	156.1	2
WBTSRHB	AB1302	36	1	5	2	20130301	0238	26.055N	79.399W	217	219	18.311	36.484	2	36.486	2	155.5	2	153.3	2
WBTSRHB	AB1302	36	1	6	2	20130301	0238	26.055N	79.399W	168	169	21.241	36.802	2	36.805	2	155.0	2	154.0	2
WBTSRHB	AB1302	36	1	7	2	20130301	0238	26.055N	79.399W	119	120	24.355	36.581	2	36.594	3	176.4	2	179.1	2
WBTSRHB	AB1302	36	1	8	2	20130301	0238	26.055N	79.399W	79	79	25.366	36.183	2	36.182	2	198.6	2	198.3	2
WBTSRHB	AB1302	36	1	9	2	20130301	0238	26.055N	79.399W	29	29	25.619	36.070	2	36.072	2	201.3	2	202.2	2
WBTSRHB	AB1302	36	1	10	2	20130301	0238	26.055N	79.399W	3	3	25.597	36.075	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	11	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	12	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	13	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	14	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	15	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	16	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	17	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	18	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	19	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	20	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	21	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	22	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	23	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	36	1	24	2	20130301	0238	26.055N	79.399W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	1	2	20130301	0359	26.059N	79.479W	667	672	7.101	34.909	2	34.911	2	132.6	2	130.5	2
WBTSRHB	AB1302	37	1	2	2	20130301	0359	26.059N	79.479W	644	649	7.193	34.912	2	34.915	2	131.5	2	129.3	2
WBTSRHB	AB1302	37	1	3	2	20130301	0359	26.059N	79.479W	548	552	8.905	35.083	2	35.097	4	126.4	2	123.3	2
WBTSRHB	AB1302	37	1	4	2	20130301	0359	26.059N	79.479W	448	452	14.759	35.915	2	35.917	2	141.6	2	140.9	2
WBTSRHB	AB1302	37	1	5	2	20130301	0359	26.059N	79.479W	347	349	16.141	36.155	2	36.158	2	151.6	2	150.3	2
WBTSRHB	AB1302	37	1	6	2	20130301	0359	26.059N	79.479W	268	270	17.531	36.394	2	36.399	2	160.9	2	160.0	2
WBTSRHB	AB1302	37	1	7	2	20130301	0359	26.059N	79.479W	208	209	18.419	36.539	2	36.542	2	150.9	2	166.3	3
WBTSRHB	AB1302	37	1	8	2	20130301	0359	26.059N	79.479W	149	150	21.028	36.353	2	36.397	4	194.1	2	192.8	2
WBTSRHB	AB1302	37	1	9	2	20130301	0359	26.059N	79.479W	98	99	24.914	36.571	2	36.571	2	163.5	2	164.9	3
WBTSRHB	AB1302	37	1	10	2	20130301	0359	26.059N	79.479W	49	49	25.621	36.115	2	36.119	2	201.6	2	202.3	2
WBTSRHB	AB1302	37	1	11	2	20130301	0359	26.059N	79.479W	3	3	25.651	36.003	2	36.004	2	189.1	2	157.7	4
WBTSRHB	AB1302	37	1	12	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	13	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	14	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	15	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	16	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	17	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	18	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	19	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	20	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	21	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	22	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	23	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	37	1	24	2	20130301	0359	26.059N	79.479W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	1	2	20130301	0629	26.046N	79.560W	755	762	6.291	34.896	2	34.897	2	136.0	2	161.2	4
WBTSRHB	AB1302	38	1	2	2	20130301	0629	26.046N	79.560W	645	650	6.479	34.896	2	34.898	2	141.9	2	139.6	2
WBTSRHB	AB1302	38	1	3	2	20130301	0629	26.046N	79.560W	545	550	7.313	34.925	2	34.926	2	130.8	2	129.1	2
WBTSRHB	AB1302	38	1	4	2	20130301	0629	26.046N	79.560W	445	449	14.124	35.814	2	35.816	2	137.4	2	136.9	2
WBTSRHB	AB1302	38	1	5	2	20130301	0629	26.046N	79.560W	346	349	15.926	36.120	2	36.121	2	150.4	2	150.0	2
WBTSRHB	AB1302	38	1	6	2	20130301	0629	26.046N	79.560W	267	269	17.222	36.342	2	36.342	2	158.7	2	158.7	2
WBTSRHB	AB1302	38	1	7	2	20130301	0629	26.046N	79.560W	208	209	18.589	36.547	2	36.550	2	159.9	2	158.7	2
WBTSRHB	AB1302	38	1	8	2	20130301	0629	26.046N	79.560W	148	149	20.391	36.389	2	36.399	2	157.0	2	176.9	3

WBTSRHB	AB1302	38	1	9	2	20130301	0629	26.046N	79.560W	98	98	22.980	36.361	2	36.364	2	205.4	2	206.1	2
WBTSRHB	AB1302	38	1	10	2	20130301	0629	26.046N	79.560W	49	49	25.655	36.010	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	11	2	20130301	0629	26.046N	79.560W	3	3	25.760	35.987	2	35.987	2	201.5	2	202.4	2
WBTSRHB	AB1302	38	1	12	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	13	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	14	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	15	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	16	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	17	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	18	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	19	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	20	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	21	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	22	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	23	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	38	1	24	2	20130301	0629	26.046N	79.560W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	1	2	20130301	0824	26.036N	79.674W	688	694	6.049	34.900	2	34.901	2	151.7	2	149.3	2
WBTSRHB	AB1302	39	1	2	2	20130301	0824	26.036N	79.674W	585	590	6.348	34.896	2	34.898	2	145.1	2	142.9	2
WBTSRHB	AB1302	39	1	3	2	20130301	0824	26.036N	79.674W	486	490	7.033	34.908	2	34.910	2	133.1	2	130.9	2
WBTSRHB	AB1302	39	1	4	2	20130301	0824	26.036N	79.674W	409	412	9.183	35.120	2	35.125	2	116.7	2	115.2	3
WBTSRHB	AB1302	39	1	5	2	20130301	0824	26.036N	79.674W	333	335	14.480	35.861	2	35.866	2	131.9	2	130.4	2
WBTSRHB	AB1302	39	1	6	2	20130301	0824	26.036N	79.674W	262	264	16.651	36.246	2	36.242	2	156.2	2	151.3	2
WBTSRHB	AB1302	39	1	7	2	20130301	0824	26.036N	79.674W	179	180	19.053	36.587	2	36.593	2	160.0	2	158.9	2
WBTSRHB	AB1302	39	1	8	2	20130301	0824	26.036N	79.674W	116	117	22.265	36.423	2	36.405	3	210.2	2	206.6	2
WBTSRHB	AB1302	39	1	9	2	20130301	0824	26.036N	79.674W	73	74	24.529	36.666	2	36.675	2	168.3	2	170.7	2
WBTSRHB	AB1302	39	1	10	2	20130301	0824	26.036N	79.674W	39	39	25.754	35.967	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	11	2	20130301	0824	26.036N	79.674W	39	39	25.755	35.961	2	35.966	2	201.7	2	203.0	2
WBTSRHB	AB1302	39	1	12	2	20130301	0824	26.036N	79.674W	3	3	25.743	35.962	2	35.961	2	201.7	2	201.6	2
WBTSRHB	AB1302	39	1	13	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	14	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	15	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	16	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	17	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	18	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	19	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	20	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	21	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	22	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	23	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	39	1	24	2	20130301	0824	26.036N	79.674W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	1	2	20130301	1014	26.033N	79.769W	583	588	6.581	34.904	2	34.906	2	141.7	2	139.4	2
WBTSRHB	AB1302	40	1	2	2	20130301	1014	26.033N	79.769W	470	474	7.064	34.910	2	34.913	2	133.9	2	131.4	2
WBTSRHB	AB1302	40	1	3	2	20130301	1014	26.033N	79.769W	388	391	7.481	34.929	2	34.929	2	128.8	2	126.4	2
WBTSRHB	AB1302	40	1	4	2	20130301	1014	26.033N	79.769W	327	329	9.246	35.131	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	5	2	20130301	1014	26.033N	79.769W	258	260	13.362	35.682	2	35.687	2	129.5	2	128.0	2
WBTSRHB	AB1302	40	1	6	2	20130301	1014	26.033N	79.769W	218	220	15.323	35.981	2	35.990	2	132.5	2	131.5	2
WBTSRHB	AB1302	40	1	7	2	20130301	1014	26.033N	79.769W	148	149	21.508	36.729	2	36.732	2	155.6	2	154.8	2
WBTSRHB	AB1302	40	1	8	2	20130301	1014	26.033N	79.769W	89	89	22.893	36.400	2	36.409	2	210.9	2	206.0	2
WBTSRHB	AB1302	40	1	9	2	20130301	1014	26.033N	79.769W	44	44	24.743	36.169	2	36.173	2	206.8	2	206.3	2
WBTSRHB	AB1302	40	1	10	2	20130301	1014	26.033N	79.769W	3	3	25.411	36.034	2	36.036	2	202.8	2	203.8	2
WBTSRHB	AB1302	40	1	11	2	20130301	1014	26.033N	79.769W	3	3	25.409	36.039	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	12	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	13	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	14	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	15	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	16	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	17	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	18	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	19	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	20	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	21	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	22	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	23	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	40	1	24	2	20130301	1014	26.033N	79.769W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	1	2	20130301	1138	26.035N	79.849W	314	317	7.891	34.958	2	34.959	2	125.9	2	123.4	2
WBTSRHB	AB1302	41	1	2	2	20130301	1138	26.035N	79.849W	198	200	13.146	35.650	2	35.648	2	128.2	2	125.9	2

WBTSRHB	AB1302	41	1	3	2	20130301	1138	26.035N	79.849W	109	110	22.436	36.492	2	36.494	2	204.6	2	200.0	2
WBTSRHB	AB1302	41	1	4	2	20130301	1138	26.035N	79.849W	59	60	23.970	36.574	2	36.558	3	189.5	2	188.0	2
WBTSRHB	AB1302	41	1	5	2	20130301	1138	26.035N	79.849W	24	24	25.020	36.106	2	36.112	2	204.2	2	204.9	2
WBTSRHB	AB1302	41	1	6	2	20130301	1138	26.035N	79.849W	3	3	25.022	36.104	2	36.106	2	204.1	2	204.7	2
WBTSRHB	AB1302	41	1	7	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	8	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	9	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	10	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	11	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	12	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	13	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	14	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	15	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	16	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	17	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	18	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	19	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	20	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	21	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	22	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	23	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	41	1	24	2	20130301	1138	26.035N	79.849W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	1	2	20130301	1245	26.038N	79.933W	248	249	8.970	35.063	2	35.069	2	121.3	2	119.1	2
WBTSRHB	AB1302	42	1	2	2	20130301	1245	26.038N	79.933W	148	149	14.968	35.851	2	35.848	2	136.1	2	134.2	2
WBTSRHB	AB1302	42	1	3	2	20130301	1245	26.038N	79.933W	69	69	23.122	36.397	2	36.407	3	205.3	2	202.4	2
WBTSRHB	AB1302	42	1	4	2	20130301	1245	26.038N	79.933W	29	29	25.110	36.290	2	36.313	4	194.6	2	196.1	2
WBTSRHB	AB1302	42	1	5	2	20130301	1245	26.038N	79.933W	3	3	25.378	36.009	2	36.012	2	201.5	2	203.2	2
WBTSRHB	AB1302	42	1	6	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	7	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	8	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	9	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	10	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	11	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	12	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	13	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	14	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	15	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	16	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	17	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	18	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	19	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	20	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	21	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	22	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	23	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	42	1	24	2	20130301	1245	26.038N	79.933W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	1	2	20130301	1342	26.048N	80.000W	242	244	8.584	35.025	2	35.037	2	122.7	2	120.3	2
WBTSRHB	AB1302	43	1	2	2	20130301	1342	26.048N	80.000W	158	159	12.935	35.631	2	35.649	4	126.5	2	124.3	2
WBTSRHB	AB1302	43	1	3	2	20130301	1342	26.048N	80.000W	79	79	22.760	36.350	2	36.355	2	207.1	2	207.7	2
WBTSRHB	AB1302	43	1	4	2	20130301	1342	26.048N	80.000W	38	39	23.956	36.306	2	36.313	2	207.9	2	206.1	2
WBTSRHB	AB1302	43	1	5	2	20130301	1342	26.048N	80.000W	3	3	25.413	36.013	2	36.018	2	201.2	2	202.4	2
WBTSRHB	AB1302	43	1	6	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	7	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	8	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	9	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	10	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	11	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	12	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	13	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	14	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	15	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	16	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	17	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	18	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	19	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	20	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9

WBTSRHB	AB1302	43	1	21	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	22	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	23	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	43	1	24	2	20130301	1342	26.048N	80.000W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	1	2	20130301	1438	26.050N	80.066W	125	126	16.195	36.052	2	36.123	4	126.8	2	146.1	3
WBTSRHB	AB1302	44	1	2	2	20130301	1438	26.050N	80.066W	73	74	23.247	36.382	2	36.379	2	204.2	2	205.0	2
WBTSRHB	AB1302	44	1	3	2	20130301	1438	26.050N	80.066W	34	34	24.283	36.218	2	36.215	2	206.6	2	206.9	2
WBTSRHB	AB1302	44	1	4	2	20130301	1438	26.050N	80.066W	3	3	24.618	36.193	2	36.195	2	205.3	2	206.1	2
WBTSRHB	AB1302	44	1	5	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	6	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	7	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	8	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	9	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	10	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	11	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	12	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	13	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	14	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	15	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	16	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	17	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	18	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	19	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	20	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	21	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	22	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	23	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	44	1	24	2	20130301	1438	26.050N	80.066W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	1	2	20130301	2108	27.002N	79.932W	139	140	13.971	35.780	2	35.781	2	127.8	2	126.6	2
WBTSRHB	AB1302	45	1	2	2	20130301	2108	27.002N	79.932W	69	70	22.270	36.450	2	36.458	2	199.1	2	195.6	2
WBTSRHB	AB1302	45	1	3	2	20130301	2108	27.002N	79.932W	34	34	23.751	36.321	2	36.327	2	208.3	2	209.7	2
WBTSRHB	AB1302	45	1	4	2	20130301	2108	27.002N	79.932W	4	4	24.415	36.202	2	-999.000	9	193.9	2	126.9	4
WBTSRHB	AB1302	45	1	5	2	20130301	2108	27.002N	79.932W	3	3	24.411	36.198	2	36.201	2	207.3	2	207.5	2
WBTSRHB	AB1302	45	1	6	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	7	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	8	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	9	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	10	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	11	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	12	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	13	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	14	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	15	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	16	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	17	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	18	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	19	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	20	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	21	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	22	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	23	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	45	1	24	2	20130301	2108	27.002N	79.932W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	1	2	20130301	2202	27.001N	79.867W	258	260	11.384	35.420	2	35.421	2	123.8	2	122.4	2
WBTSRHB	AB1302	46	1	2	2	20130301	2202	27.001N	79.867W	212	214	12.401	35.563	2	35.596	4	125.6	2	124.6	2
WBTSRHB	AB1302	46	1	3	2	20130301	2202	27.001N	79.867W	150	151	17.921	36.316	2	36.342	4	132.9	2	133.0	2
WBTSRHB	AB1302	46	1	4	2	20130301	2202	27.001N	79.867W	88	88	22.235	36.575	2	36.578	2	175.7	2	174.3	2
WBTSRHB	AB1302	46	1	5	2	20130301	2202	27.001N	79.867W	48	49	23.491	36.353	2	36.363	2	204.5	2	202.0	2
WBTSRHB	AB1302	46	1	6	2	20130301	2202	27.001N	79.867W	3	3	25.214	36.043	2	36.048	2	203.1	2	203.8	2
WBTSRHB	AB1302	46	1	7	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	8	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	9	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	10	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	11	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	12	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	13	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	14	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9

WBTSRHB	AB1302	46	1	15	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	16	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	17	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	18	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	19	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	20	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	21	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	22	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	23	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	46	1	24	2	20130301	2202	27.001N	79.867W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	1	2	20130301	2308	27.001N	79.786W	369	372	8.475	35.037	2	35.039	2	125.3	2	123.2	2
WBTSRHB	AB1302	47	1	2	2	20130301	2308	27.001N	79.786W	294	296	13.288	35.676	2	35.687	2	127.3	2	126.1	2
WBTSRHB	AB1302	47	1	3	2	20130301	2308	27.001N	79.786W	228	230	16.808	36.264	2	36.257	2	154.5	2	151.4	2
WBTSRHB	AB1302	47	1	4	2	20130301	2308	27.001N	79.786W	168	169	17.795	36.383	2	36.390	2	135.2	2	128.5	3
WBTSRHB	AB1302	47	1	5	2	20130301	2308	27.001N	79.786W	118	119	20.475	36.514	2	36.527	3	152.7	2	151.7	2
WBTSRHB	AB1302	47	1	6	2	20130301	2308	27.001N	79.786W	79	80	22.667	36.451	2	36.457	2	197.1	2	196.1	2
WBTSRHB	AB1302	47	1	7	2	20130301	2308	27.001N	79.786W	39	39	24.911	36.085	2	36.102	3	203.6	2	204.4	2
WBTSRHB	AB1302	47	1	8	2	20130301	2308	27.001N	79.786W	3	3	25.421	36.019	2	36.024	2	203.0	2	203.9	2
WBTSRHB	AB1302	47	1	9	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	10	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	11	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	12	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	13	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	14	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	15	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	16	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	17	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	18	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	19	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	20	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	21	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	22	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	23	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	47	1	24	2	20130301	2308	27.001N	79.786W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	1	2	20130302	0058	26.983N	79.683W	525	529	7.702	34.968	2	34.971	2	130.1	2	127.5	2
WBTSRHB	AB1302	48	1	2	2	20130302	0058	26.983N	79.683W	427	430	9.474	35.118	2	35.128	2	120.7	2	119.1	2
WBTSRHB	AB1302	48	1	3	2	20130302	0058	26.983N	79.683W	337	339	14.685	35.909	2	35.911	2	141.2	2	140.0	2
WBTSRHB	AB1302	48	1	4	2	20130302	0058	26.983N	79.683W	253	255	17.296	36.355	2	36.356	2	159.3	2	158.6	2
WBTSRHB	AB1302	48	1	5	2	20130302	0058	26.983N	79.683W	198	200	18.063	36.477	2	36.482	2	162.2	2	161.0	2
WBTSRHB	AB1302	48	1	6	2	20130302	0058	26.983N	79.683W	148	149	19.018	36.559	2	36.562	2	155.2	2	154.1	2
WBTSRHB	AB1302	48	1	7	2	20130302	0058	26.983N	79.683W	99	99	22.257	36.690	2	36.694	2	162.1	2	160.6	2
WBTSRHB	AB1302	48	1	8	2	20130302	0058	26.983N	79.683W	59	59	24.475	36.154	2	36.153	2	204.4	2	204.0	2
WBTSRHB	AB1302	48	1	9	2	20130302	0058	26.983N	79.683W	19	19	25.619	35.981	2	35.986	2	202.0	2	202.7	2
WBTSRHB	AB1302	48	1	10	2	20130302	0058	26.983N	79.683W	3	3	25.618	35.983	2	35.985	2	202.1	2	202.7	2
WBTSRHB	AB1302	48	1	11	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	12	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	13	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	14	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	15	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	16	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	17	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	18	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	19	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	20	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	21	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	22	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	23	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	48	1	24	2	20130302	0058	26.983N	79.683W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	1	2	20130302	0216	26.996N	79.615W	637	642	7.473	34.952	2	34.958	2	132.1	2	129.5	2
WBTSRHB	AB1302	49	1	2	2	20130302	0216	26.996N	79.615W	558	562	8.609	35.015	2	35.021	2	122.2	2	120.6	2
WBTSRHB	AB1302	49	1	3	2	20130302	0216	26.996N	79.615W	486	490	9.310	35.101	2	35.105	2	121.9	2	119.0	2
WBTSRHB	AB1302	49	1	4	2	20130302	0216	26.996N	79.615W	415	418	14.720	35.910	2	35.908	2	141.4	2	140.2	2
WBTSRHB	AB1302	49	1	5	2	20130302	0216	26.996N	79.615W	346	349	16.128	36.152	2	36.149	2	152.0	2	150.2	2
WBTSRHB	AB1302	49	1	6	2	20130302	0216	26.996N	79.615W	267	269	17.196	36.337	2	36.340	2	159.1	2	158.2	2
WBTSRHB	AB1302	49	1	7	2	20130302	0216	26.996N	79.615W	188	190	18.395	36.521	2	36.522	2	160.1	2	159.3	2
WBTSRHB	AB1302	49	1	8	2	20130302	0216	26.996N	79.615W	138	139	20.523	36.747	2	36.747	2	156.1	2	155.0	2

WBTSRHB	AB1302	49	1	9	2	20130302	0216	26.996N	79.615W	73	74	24.509	36.506	2	36.474	4	186.4	2	188.3	2
WBTSRHB	AB1302	49	1	10	2	20130302	0216	26.996N	79.615W	34	34	25.594	35.990	2	35.993	2	201.7	2	202.5	2
WBTSRHB	AB1302	49	1	11	2	20130302	0216	26.996N	79.615W	3	3	25.579	35.991	2	35.992	2	201.7	2	202.4	2
WBTSRHB	AB1302	49	1	12	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	13	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	14	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	15	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	16	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	17	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	18	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	19	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	20	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	21	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	22	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	23	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	49	1	24	2	20130302	0216	26.996N	79.615W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	1	2	20130302	0353	26.993N	79.499W	744	750	7.044	34.905	2	34.909	2	133.4	2	131.2	2
WBTSRHB	AB1302	50	1	2	2	20130302	0353	26.993N	79.499W	645	650	8.541	35.023	2	35.048	4	123.9	2	122.2	2
WBTSRHB	AB1302	50	1	3	2	20130302	0353	26.993N	79.499W	541	545	12.182	35.497	2	35.496	2	127.8	2	126.3	2
WBTSRHB	AB1302	50	1	4	2	20130302	0353	26.993N	79.499W	435	438	15.156	35.983	2	35.974	2	144.6	2	143.1	2
WBTSRHB	AB1302	50	1	5	2	20130302	0353	26.993N	79.499W	337	339	16.631	36.242	2	36.222	3	156.2	2	154.1	2
WBTSRHB	AB1302	50	1	6	2	20130302	0353	26.993N	79.499W	258	259	17.384	36.381	2	36.386	2	165.0	2	167.1	2
WBTSRHB	AB1302	50	1	7	2	20130302	0353	26.993N	79.499W	202	204	18.466	36.537	2	36.531	2	165.3	2	166.3	2
WBTSRHB	AB1302	50	1	8	2	20130302	0353	26.993N	79.499W	149	150	21.134	36.786	2	36.789	2	144.5	2	159.1	3
WBTSRHB	AB1302	50	1	9	2	20130302	0353	26.993N	79.499W	89	89	24.944	36.581	2	36.586	2	171.1	2	173.5	2
WBTSRHB	AB1302	50	1	10	2	20130302	0353	26.993N	79.499W	49	49	25.639	36.004	2	36.005	2	200.6	2	201.1	2
WBTSRHB	AB1302	50	1	11	2	20130302	0353	26.993N	79.499W	3	3	25.616	36.003	2	36.004	2	200.6	2	201.7	2
WBTSRHB	AB1302	50	1	12	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	13	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	14	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	15	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	16	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	17	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	18	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	19	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	20	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	21	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	22	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	23	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	50	1	24	2	20130302	0353	26.993N	79.499W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	1	2	20130302	0554	27.000N	79.377W	682	688	10.432	35.265	2	35.268	2	125.6	2	124.8	2
WBTSRHB	AB1302	51	1	2	2	20130302	0554	27.000N	79.377W	569	574	12.584	35.560	2	35.557	2	129.9	2	128.3	2
WBTSRHB	AB1302	51	1	3	2	20130302	0554	27.000N	79.377W	469	472	14.411	35.857	2	35.856	2	139.4	2	138.5	2
WBTSRHB	AB1302	51	1	4	2	20130302	0554	27.000N	79.377W	370	373	16.378	36.196	2	36.197	2	153.1	2	152.3	2
WBTSRHB	AB1302	51	1	5	2	20130302	0554	27.000N	79.377W	296	298	18.190	36.560	2	36.562	2	192.6	2	192.2	2
WBTSRHB	AB1302	51	1	6	2	20130302	0554	27.000N	79.377W	222	224	19.526	36.662	2	36.666	2	187.8	2	187.4	2
WBTSRHB	AB1302	51	1	7	2	20130302	0554	27.000N	79.377W	173	174	20.268	36.697	2	36.700	2	191.9	2	191.3	2
WBTSRHB	AB1302	51	1	8	2	20130302	0554	27.000N	79.377W	123	124	23.918	36.685	2	36.691	2	178.2	2	176.4	2
WBTSRHB	AB1302	51	1	9	2	20130302	0554	27.000N	79.377W	74	74	25.568	36.184	2	36.198	3	197.3	2	197.8	2
WBTSRHB	AB1302	51	1	10	2	20130302	0554	27.000N	79.377W	29	29	25.480	36.091	2	36.093	2	200.1	2	201.7	2
WBTSRHB	AB1302	51	1	11	2	20130302	0554	27.000N	79.377W	3	3	25.455	36.089	2	36.092	2	200.2	2	201.9	2
WBTSRHB	AB1302	51	1	12	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	13	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	14	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	15	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	16	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	17	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	18	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	19	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	20	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	21	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	22	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	23	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	51	1	24	2	20130302	0554	27.000N	79.377W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	1	2	20130302	0744	26.994N	79.277W	595	600	13.239	35.730	2	35.731	2	151.7	2	152.3	2
WBTSRHB	AB1302	52	1	2	2	20130302	0744	26.994N	79.277W	495	499	14.680	35.957	2	35.953	2	162.8	2	162.3	2

WBTSRHB	AB1302	52	1	3	2	20130302	0744	26.994N	79.277W	395	398	17.444	36.445	2	36.445	2	192.0	2	191.6	2
WBTSRHB	AB1302	52	1	4	2	20130302	0744	26.994N	79.277W	316	318	18.206	36.557	2	36.559	2	190.8	2	191.0	2
WBTSRHB	AB1302	52	1	5	2	20130302	0744	26.994N	79.277W	247	248	19.425	36.645	2	36.647	2	187.8	2	187.9	2
WBTSRHB	AB1302	52	1	6	2	20130302	0744	26.994N	79.277W	183	184	21.194	36.746	2	36.751	2	194.7	2	194.1	2
WBTSRHB	AB1302	52	1	7	2	20130302	0744	26.994N	79.277W	133	134	23.932	36.536	2	36.540	2	199.8	2	199.3	2
WBTSRHB	AB1302	52	1	8	2	20130302	0744	26.994N	79.277W	89	90	24.569	36.390	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	9	2	20130302	0744	26.994N	79.277W	44	44	25.296	36.142	2	36.148	2	201.4	2	201.7	2
WBTSRHB	AB1302	52	1	10	2	20130302	0744	26.994N	79.277W	3	3	25.273	36.143	2	36.146	2	201.4	2	201.3	2
WBTSRHB	AB1302	52	1	11	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	12	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	13	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	14	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	15	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	16	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	17	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	18	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	19	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	20	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	21	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	22	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	23	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	52	1	24	2	20130302	0744	26.994N	79.277W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	1	2	20130302	0907	26.977N	79.198W	483	487	15.405	36.080	2	36.085	2	168.6	2	169.1	2
WBTSRHB	AB1302	53	1	2	2	20130302	0907	26.977N	79.198W	377	380	17.655	36.479	2	36.480	2	189.1	2	191.7	2
WBTSRHB	AB1302	53	1	3	2	20130302	0907	26.977N	79.198W	307	310	18.261	36.569	2	36.571	2	192.5	2	192.3	2
WBTSRHB	AB1302	53	1	4	2	20130302	0907	26.977N	79.198W	238	239	20.144	36.675	2	36.678	2	193.0	2	193.5	2
WBTSRHB	AB1302	53	1	5	2	20130302	0907	26.977N	79.198W	169	170	22.508	36.731	2	36.738	2	180.8	2	198.9	3
WBTSRHB	AB1302	53	1	6	2	20130302	0907	26.977N	79.198W	108	109	24.149	36.470	2	36.470	2	203.2	2	203.3	2
WBTSRHB	AB1302	53	1	7	2	20130302	0907	26.977N	79.198W	78	79	24.748	36.362	2	36.366	2	198.1	2	198.2	2
WBTSRHB	AB1302	53	1	8	2	20130302	0907	26.977N	79.198W	34	34	25.186	36.220	2	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	9	2	20130302	0907	26.977N	79.198W	3	3	25.171	36.215	2	36.217	2	202.0	2	203.1	2
WBTSRHB	AB1302	53	1	10	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	11	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	12	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	13	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	14	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	15	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	16	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	17	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	18	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	19	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	20	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	21	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	22	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	23	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9
WBTSRHB	AB1302	53	1	24	2	20130302	0907	26.977N	79.198W	-999	-999	-999.000	-999.000	9	-999.000	9	-999.0	9	-999.0	9