



NOAA Data Report, OAR AOML-42

**HYDROGRAPHIC MEASUREMENTS COLLECTED ABOARD THE R.V.
OCEANUS, APRIL-MAY 2001: WESTERN BOUNDARY TIME SERIES CRUISE
1 (ABACO 2001)**

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**NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION**

**Office of Oceanic and
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Abstract

Summaries of CTD/O₂ measurements and hydrographic data acquired on an oceanographic research cruise during the spring of 2001 aboard the R/V Oceanus are presented. Data acquisition and processing systems are described and calibration procedures are documented. Station location, CTD/O₂ data listings, and profiles are included for each station.

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 watermass properties east of Abaco, the Bahamas. Since 1986, more than 21 hydrographic sections have been completed east of Abaco, most including direct velocity observations by Pegasus and/or Lowered Acoustic Doppler Current Profiler (LADCP). Transient tracer (CFC) measurements have been made on 7 of these sections, at roughly 2-year intervals. Current meter arrays were also maintained from April 1986 to April 1997.

The repeated hydrographic and tracer sampling at Abaco has established a high-resolution record of watermass properties in the Deep Water Boundary Current (DWBC) at 26°N, which for temperature and salinity can be reasonably constructed back to about 1955 [Molinari, *et al.*, 1998; Vaughan and Molinari, 1997]. 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. This array is unique in that it is not just a single time series site but also a transport section, of which very few are available in the ocean that approach a decade 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])

During the 2001 survey, a total of 33 hydrographic stations were occupied in the Florida Straits and East of Abaco Island, Bahamas (Figure 1-1) aboard the R/V Oceanus. Table 1.2 provides a summary of cast information. At each station, profiles of temperature, salinity (conductivity) and dissolved oxygen concentration were collected to within approximately 20 m of the bottom. Water samples for calibration of the salinity and dissolved oxygen profiles were collected at each station using 10L Niskin-type bottles.

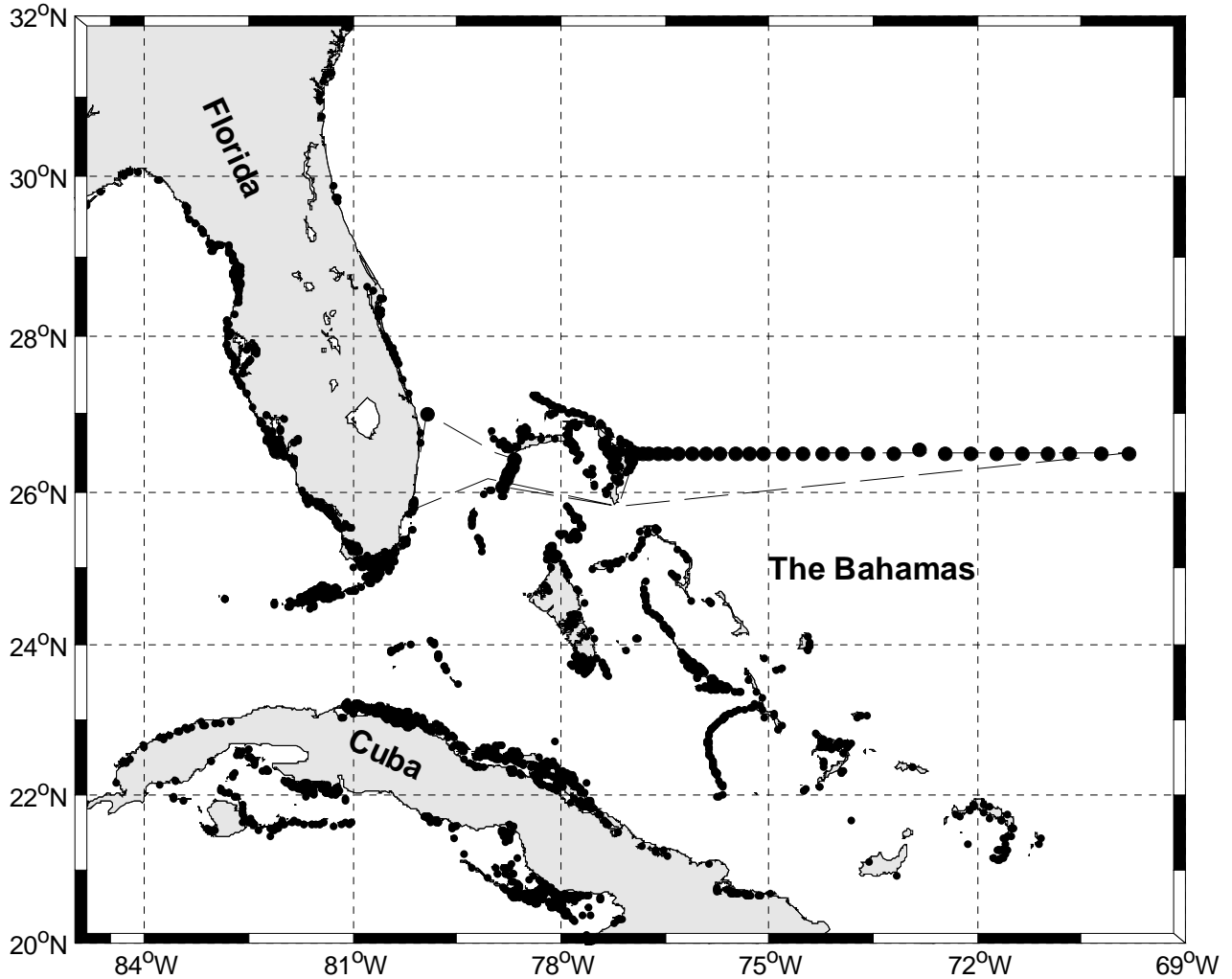


Figure 1-1 - ABACO-01 Cruise Track and CTD station locations.

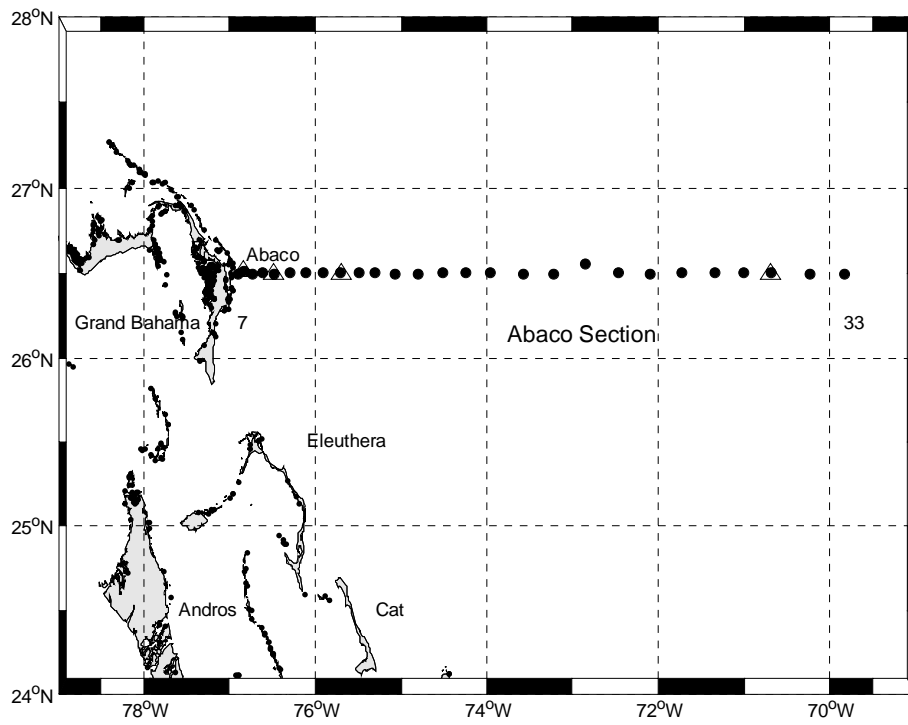


Figure 1-2 - Abaco section CTD station locations (7–33) and IES deployment locations.

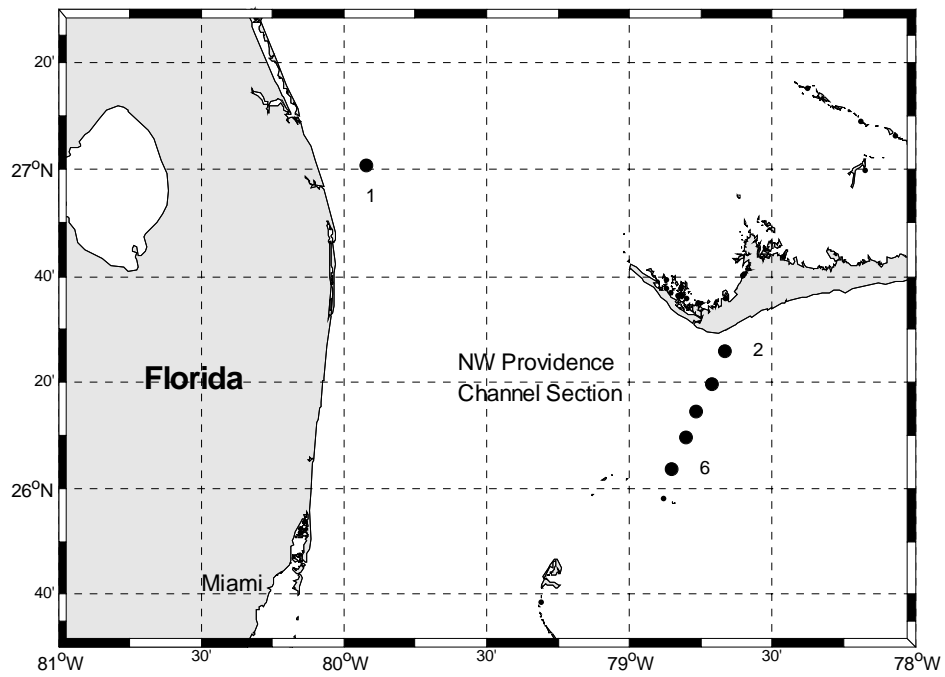


Figure 1-3 - Northwest Providence Channel section CTD station locations (2-6).

Table 1.1 – Cruise Participants of the Western Boundary Time Series Cruise (2001)

| Name | Responsibility | Affiliation | Nationality |
|-----------------|---|-------------|-------------|
| Molly Baringer | Principal Investigator, Chief Scientist | AOML | USA |
| David Bitterman | ET and LADCP watch | AOML | USA |
| Robert Roddy | Oxygen analysis | AOML | USA |
| Doug Anderson | ET and LADCP watch | AOML | USA |
| Sonia Bauer | CTD watch stander | AOML | USA |

Table 1.2 – ABACO-01 CTD Cast Summary

| Station | Date | Time (GMT) | Latitude N | Longitude W | Depth (m) |
|---------|----------|---------------|---------------|----------------|--------------|
| 001 | 04/26/01 | 2031 | 27.024 | 79.919 | 157 |
| 002 | 04/27/01 | 1200 | 26.442 | 78.668 | 741 |
| 003 | 04/27/01 | 1321 | 26.325 | 78.713 | 656 |
| 004 | 04/27/01 | 1430 | 26.240 | 78.772 | 507 |
| 005 | 04/27/01 | 1544 | 26.161 | 78.806 | 443 |
| 006 | 04/27/01 | 1659 | 26.065 | 78.858 | 283 |
| 007 | 04/28/01 | 0649 | 26.501 | 76.914 | 978 |
| 008 | 04/28/01 | 1048 | 26.512 | 76.843 | 1005 |
| 009 | 04/28/01 | 1319 | 26.507 | 76.754 | 3913 |
| 010 | 04/28/01 | 1709 | 26.513 | 76.614 | 4729 |
| 011 | 04/28/01 | 2355 | 26.527 | 76.492 | 4842 |
| 012 | 04/29/01 | 0420 | 26.529 | 76.316 | 4828 |
| 013 | 04/29/01 | 0853 | 26.528 | 76.127 | 4807 |
| 014 | 04/29/01 | 1343 | 26.531 | 75.928 | 4748 |
| 015 | 04/29/01 | 2111 | 26.551 | 75.728 | 4690 |
| 016 | 04/29/01 | 0237 | 26.531 | 75.515 | 4683 |
| 017 | 04/30/01 | 0724 | 26.515 | 75.304 | 4636 |
| 018 | 04/30/01 | 1228 | 26.529 | 75.091 | 4603 |
| 019 | 04/30/01 | 1728 | 26.502 | 74.797 | 4508 |
| 020 | 04/30/01 | 2257 | 26.512 | 74.518 | 4496 |
| 021 | 05/01/01 | 0433 | 26.519 | 74.243 | 4536 |
| 022 | 05/01/01 | 0958 | 26.520 | 73.963 | 4642 |
| 023 | 05/01/01 | 1543 | 26.519 | 73.588 | 4920 |
| 024 | 05/01/01 | 2056 | 26.517 | 73.234 | 5058 |
| 025 | 05/02/01 | 1723 | 26.580 | 72.858 | 5107 |
| 026 | 05/02/01 | 0002 | 26.515 | 72.462 | 5138 |
| 027 | 05/03/01 | 0613 | 26.531 | 72.098 | 5278 |
| 028 | 05/03/01 | 1259 | 26.529 | 71.729 | 5373 |
| 029 | 05/03/01 | 1957 | 26.534 | 71.337 | 5465 |
| 030 | 05/04/01 | 0210 | 26.537 | 71.009 | 5470 |
| 031 | 05/04/01 | 1118 | 26.540 | 70.681 | 5470 |
| 032 | 05/04/01 | 1803 | 26.521 | 70.200 | 5471 |
| 033 | 05/04/01 | 0027 | 26.520 | 69.806 | 5483 |

2. Cruise Narrative

The cruise left Miami Thursday April 26th and proceeded northward to a test cast in the Florida Straits before reaching the first CTD cast on the west end of the 27°N section. The weather leaving Miami was beautiful and calm, but steadily deteriorated as we moved northward. The first CTD cast was conducted in approximately 26 knot sustained winds from the north and 8-10 ft seas in the Florida Current moving in excess of 2 knots. The Captain decided it was too rough to reliably hold the CTD wire off the hull of the ship, so the 27°N section was abandoned and we proceeded to the Northwest Providence Channel section. The weather forced the cancellation of the small piggyback project to measure stable isotopes in the Florida Straits (Dr. Jordan UC Santa Barbara). Thanks to coordination with the ship, the project was moved to another cruise.

Winds changed over the night to 15 knots out of the east and the CTD stations proceeded as planned until the weather started to decline on Monday April 30th and the transit time between stations slowed to about 6 knots. Over the evening and morning of May 1-2 the ship remained hove-to with 25-35 knot winds and 10-14 ft seas. The morning of May 2nd winds dropped to 20-25 knots and seas to about 8 ft and operations resumed. The last CTD station was completed along the 26.5°N section on the evening of Friday May 4, 2008 and the ship docked back in Miami at the anticipated time Monday May 7. Returning to Miami downwind, the ship experienced 20-30 degree tilts athwart ship.

The ship collected standard VMDAS shipboard ADCP and the standard pingdata data files were stored with no on board processing or quality control. The LADCP system used included a 300 kHz RDI workhorse. The first unit used had flooded two months prior on a Windward Island Monitoring Program cruise (D. Wilson, pers. Comm.), but was quickly repaired and returned by RDI in time for this cruise. No problems were encountered until station 9, the first station over 1000 m. The LADCP flooded again and we swapped to a secondary unit on loan to AOML from RDI. For the secondary unit several communications problems prevented the data from being downloaded via any cables. After station 14 the data was successfully downloaded after removing the memory card from the unit and reading using a PCIMA memory slot on a portable laptop (further details in the LADCP Data Report).

The RV Oceanus has no dynamic positioning capabilities and limited ability to work in rough weather and hold station. Through most of the cruise the stations were held no better than about 1 nm from beginning to end of the CTD cast. Most of the displacements occurred in the north/south direction. It is our conclusion that use of a Class II ship for the Western Boundary Hydrographic Surveys should account for additional ship days (2 or more) in case of weather related problems. We would also recommend using Class II ships with dynamic positioning.

A total of 33 stations were completed including one station in the Florida Straits, five stations across the Northwest Providence Channel and 27 stations east of Abaco Island out to 69° 50' W. Also four inverted Echo-Sounders (IES) were deployed east of Abaco Island. Deep western Boundary Current velocities were in the range of 20-40 cm/sec southward.

3. Inverted Echo-Sounder Operations

An inverted echo sounder is consisting mainly of a transducer, which can produce sound waves and hear sound waves, and a precise clock. The inverted echo sounders used here at AOML send out a series of 24 10kHz or 12kHz sound pulses each hour. These pulses reflect when they hit the ocean surface, and 1-8 seconds later the IES records the precise amount of time between when each pulse is sent out and when the pulse is heard returning to the IES. The median value of the 24 pulses is then taken as the travel time for that hour (multiple pulses are needed to average out the changes in travel time due to waves at the ocean surface and other sources of noise). Because the speed of sound in seawater is dependent on temperature, as the water temperatures (and salinities) above the IES change over time the travel time measurement of the IES changes. The travel time measurement of the IES is combined with other ocean measurements of temperature and salinity in order to estimate full-water-column profiles of temperature, salinity, and density. The result is a time series of profiles of these quantities at each IES site.

During the April 2001 cruise four inverted echo-sounders (University of Rhode Island URI model 6.1c) were deployed. Deployments were planned for two years.

Bathymetric surveys were used to triangulate over the projected area of IES deployment to find a location with a gentle slope (we aimed for slopes less than 5°). The acoustic transmissions on the ship (possibly due to ambient ocean noise due to the harsh weather resulted in some problems recording IES ping transmissions on the LSR/PDR.

It is useful to monitor the IES deployment by tracking the IES descent and verifying the first travel time observation after deployment. Generally deployments went very well, ranging in time between 2.5 and 4 hours. Eventually we discovered that the PDR/LSR tracking was improved if the ship maintained a slow uniform speed, suggesting the poor transmissions were, in fact, due to environmental conditions.

Table 3.1 - Inverted echo-sounders deployment locations.

| Instrument | SN# | Latitude | Longitude |
|------------|-----|--------------|--------------|
| | 24 | 26° 30.700 N | 76° 50.412 W |
| | 21 | 26° 29.986 N | 76° 28.788 W |
| | 23 | 26° 30.070 N | 75° 42.224 W |
| | 22 | 26° 30.171 N | 70° 41.101 W |

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 4.22).

The SBE 911plus 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 911plus 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 911plus 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) 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 (YSI-type) are added to the pumped sensor configuration following the temperature-conductivity (TC) pair.

Table 4.1 - Equipment used during ABACO-01

| Instrument | SN | Stations | Note |
|--|--------------|----------|------------|
| Sea-Bird SBE32 24-place Carousel Water Sampler | 328531-0031 | 1-33 | |
| Sea-Bird SBE9plus CTD | 09P10779-363 | 0-1 | |
| Sea-Bird SBE9plus CTD | 09P8531-367 | 2-33 | |
| Paroscientific Digiquartz Pressure Sensor | 58808 | 0-1 | |
| Paroscientific Digiquartz Pressure Sensor | 50619 | 2-33 | |
| Sea-Bird SBE3plus Temperature Sensor | 1075 | 1-33 | primary |
| Sea-Bird SBE3plus Temperature Sensor | 1609 | 1-33 | secondary |
| Sea-Bird SBE4C Conductivity Sensor | 1346 | 1-33 | primary |
| Sea-Bird SBE4C Conductivity Sensor | 1347 | 1-33 | secondary |
| Sea-Bird SBE13Y YSI Dissolved Oxygen Sensor | 381 | 1-33 | primary |
| Sea-Bird SBE13Y YSI Dissolved Oxygen Sensor | 384 | 1-33 | secondary |
| Sea-Bird SBE5T Pump | 1211 | 1-33 | primary |
| Sea-Bird SBE5T Pump | 1072 | 1-33 | secondary |
| Simrad 807 Altimeter | AOML | 1-33 | range 280m |
| AOML Pinger | 7000-1 | 1-33 | |
| RDI LADCP - 300 kHz Workhorse | Doug Wilson | 1-33 | Downward |
| RDI LADCP - 300 kHz Workhorse | UM | 1-33 | Downward |

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 and resolution of 0.00004 S/m at 24 scans per second.

Table 4.2 – Calibration coefficients for the conductivity sensors.

| s/n 1346 | s/n 1347 |
|-----------------------|-----------------------|
| November 14, 2000 | November 14, 2000 |
| $g = -4.07585521e+00$ | $g = -3.71068959e+00$ |
| $h = 5.36912871e-01$ | $h = 4.88160793e-01$ |
| $l = -4.9006457e-05$ | $i = -1.53920017e-04$ |
| $j = 3.37480389e-05$ | $j = 3.64058142e-05$ |
| $ctcor = 3.2500e-06$ | $ctcor = 3.2500e-06$ |
| $cpcor = -6.957e-08$ | $cpcor = -7.7600e-08$ |

Two conductivity sensors were used during ABACO-01, serial numbers (s/n) 1346 and 1347. Pre-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue, Washington on November 14, 2000. The coefficients shown in Table 4.2 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:

$$C(\text{Siemens / meter}) = \frac{(g + h \cdot f^2 + i \cdot f^3 + j \cdot f^4)}{[10 \cdot (1 + ctcor \cdot t + cpcor \cdot p)]}$$

where g , h , i , j , $ctcor$, and $cpcor$ are the calibration 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.

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 Wein 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.

The two temperature sensors used during ABACO-01 were s/n 1075 and 1609. Pre-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue,

Washington on November 14, 2000. The following (Table 4.3) coefficients were entered into SEASAVE® using the configuration file:

Table 4.3 - Calibration coefficients for the temperature sensors.

| s/n 1075 November 14, 2000 | s/n 1609 November 14, 2000 |
|-------------------------------|-------------------------------|
| $g = 4.81093723e-03$ | $g = 4.86579329e-03$ |
| $h = 6.68988344e-04$ | $h = 6.79748362e-04$ |
| $l = 2.51627419e-05$ | $i = 2.61064749e-05$ |
| $j = 1.99051925e-06$ | $j = 2.00700808e-06$ |
| $f_0 = 1000.0$ | $f_0 = 1000.0$ |

Temperature (ITS-90) is computed according to:

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

where g , h , i , j and f_0 are the calibration coefficients above and f is the instrument frequency (kHz). SEASAVE® automatically implements this equation and converts between ITS-90 and IPTS-68 temperature scales as desired.

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% FS. 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-01 was s/n 50619. Pre-cruise sensor calibrations were performed at Sea-Bird Electronics, Inc. in Bellevue, Washington on April 5, 1994. The coefficients (Table 4.4) were entered into SEASAVE® using the configuration file.

Pressure coefficients are first formulated into:

$$c = c_1 + c_2 \cdot U + c_3 \cdot U^2$$

$$d = d_1 + d_2 \cdot U$$

$$t_0 = t_1 + t_2 \cdot U + t_3 \cdot U^2 + t_4 \cdot U^3 + t_5 \cdot U^4$$

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

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

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

Table 4.4 - Calibration coefficients for the pressure sensor.

| |
|-----------------------|
| s/n 50619 |
| April 5, 1994 |
| $c_1 = -4.010525e+04$ |
| $c_2 = 6.815307e-01$ |
| $c_3 = 1.288650e-02$ |
| $d_1 = 3.974700e-02$ |
| $d_2 = 0.0$ |
| $t_1 = 3.029263e+01$ |
| $t_2 = -5.273358e-05$ |
| $t_3 = 4.378350e-06$ |
| $t_4 = 2.065070e-09$ |
| $t_5 = 0.0$ |

4.4 Dissolved Oxygen

The SBE 13Y dissolved oxygen sensor Yellow Springs Instrument (YSI) uses a polarographic type element. 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. The interface electronics output voltages proportional to membrane current (oxygen current) and membrane temperature (oxygen temperature). Oxygen temperature is used for internal temperature compensation. Initial computation of dissolved oxygen in engineering units is done in the software. The range for dissolved oxygen is 0 to 670 $\mu\text{mol/kg}$; nominal accuracy is 4.45 $\mu\text{mol/kg}$; resolution is 0.4 $\mu\text{mol/kg}$. Response times are roughly 2 seconds at 25°C and 5 seconds at 0°C.

Oxygen sensors 130381 and 130364 were used during ABACO-01. The oxygen calibrations (Table 4.5) were entered into SEASAVE® using the configuration file.

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:

$$O(\text{ml/l}) = \left\{ Soc \cdot \left(O_c + \tau \cdot \frac{dO_c}{dt} \right) + Boc \right\} \cdot e^{(t_{cor} \cdot (T + wt \cdot (T_0 - T)) + p_{cor} \cdot P)} \cdot OXSAT(T, S)$$

Where Soc , Boc , wt , $tcor$, $pcor$, and tau are the calibration coefficients above and O_c is the instrument current (μA) and dO_c/dt ($\mu A/s$) is the slope of the current. T , S and P are the temperature, salinity and pressure measured by the CTD and OXSAT is the oxygen saturation value calculated according to:

$$A1 = -173.4292 \quad A2 = 249.6339 \quad A3 = 143.3483 \quad A4 = -21.8492$$

$$B1 = -0.033096 \quad B2 = 0.014259 \quad B3 = -0.00170$$

$$OXSAT(\theta, S) = \exp \left\{ A1 + A2 \cdot \left(\frac{100}{\theta} \right) + A3 \cdot \ln \left(\frac{\theta}{100} \right) + A4 \cdot \left(\frac{\theta}{100} \right) + S \cdot \left[B1 + B2 \cdot \left(\frac{\theta}{100} \right) + B3 \cdot \left(\frac{\theta}{100} \right)^2 \right] \right\}$$

Where θ is the absolute temperature (K). SEASAVE® automatically implements this equation.

Table 4.5 - Calibration coefficients for the dissolved oxygen sensors.

| s/n 130381 | s/n 130364 |
|-------------------|-------------------|
| March 16, 2001 | March 16, 2001 |
| $M = 2.4496e-07$ | $M = 2.4614e-07$ |
| $B = -2.7680e-10$ | $B = -5.0212e-10$ |
| $Soc = 2.8062$ | $Soc = 2.7018$ |
| $Boc = -0.0123$ | $Boc = -0.0113$ |
| $tcor = -0.033$ | $tcor = -0.033$ |
| $pcor = 1.50e-04$ | $pcor = 1.50e-04$ |
| $tau = 2.0$ | $tau = 2.0$ |
| $wt = 0.67$ | $wt = 0.67$ |
| $k = 9.0214$ | $k = 9.0037$ |
| $c = -6.7355$ | $c = -6.8110$ |

5. Data Acquisition

CTD/O₂ measurements were made using a SBE 9plus CTD with dual sensor configuration. Each set of sensors included a temperature, conductivity, and dissolved oxygen sensor. The sets were placed as mirror images to each other mounted low in the CTD main housing with the intakes approximately 6-8 inches apart. The TC pairs were monitored for calibration drift and shifts by examining the differences between the two pairs on each CTD and comparing CTD salinity values with bottle salinity measurements.

AOML's SBE 9plus CTD/O₂ s/n 09P10779-0363 (sampling rate 24Hz) was mounted in a 24-position frame and employed as the primary package. Auxiliary sensors included a Lowered Acoustic Doppler Current Profiler (LADCP) and a Simrad altimeter. Water samples were collected using a SBE bottle carousel and 10-liter Niskin bottles. Data from the secondary sensor pair was determined to fit the sample data best and hence was used for all final data in this report.

The deck unit and CTD were powered on approximately 15 minutes before the start of each CTD cast with continuous data storage (to allow for on deck reading prior to the start of the cast and any deck unit transients to subside). The package entered the water from the starboard side of the ship and was held within 5 meters of the surface for 1 minute in order to activate the pump. The package was lowered at a rate of 30m/min to 100 m and 60 m/min generally to within 20 meters of the bottom, slowing on the approach. The altimeter monitored the position of the package relative to the bottom. The package was then brought back up to the surface stopping at intervals for the firing of the carousel and retrieval of water samples at pre-specified depths. The CTD was typically held at the depth of each water sample for no more than 20 seconds (several rolls of the ship). Upon completion of the cast, sensors were flushed repeatedly and stored with a dilute Triton-X solution in the tubing. Niskin bottles were then sampled first for oxygen and then salinity.

A SBE 11plus deck unit received the data signal from the CTD. Digitized data were forwarded to a personal computer equipped with Seasave acquisition and processing software SBEDDataProc® version 5.27c. Preliminary temperature, salinity, and oxygen profiles were displayed in real time. Raw data files were archived to SyQuest 230mb removable drives as well to compact discs.

5.1 Data Acquisition/System Problems

The performance of the sensors was outstanding. Problems with the configuration of the oxygen sensors occurred during the test cast. Several issues arose with the lowered acoustic doppler current profiler (LADCP), which will be outlined in a separate report.

The 10L Niskin bottles all worked well, holding their water. We had substantial problems initially getting the PDR and altimeter to work and hence to track the CTD package, the first station in the west end of the Florida Straits was stopped well above the anticipated bottom (from the initial depth reading at the start of the cast).

Bottle confirmation problems were extensive during the test cast. The CTD cables were replaced and checked connectors to no avail. After the test cast and station one we changed from CTD2 to CTD1 and had no further problems with confirmations. Out of the Straits of Florida, the altimeter worked exceedingly well, typically targeting in on the bottom more than 350 m from the bottom. The PDR/LSR recording improved, but could not continuously track the descent of the CTD package or the bottom depth while underway.

5.2 Salinity Analyses

Bottle salinity analyses were performed in the ship's temperature-controlled salinity laboratory using a Guildline Model 8400B inductive autosalinometer, and a dedicated PC. Software allowed the user to standardize the autosalinometer. IAPSO Standard Seawater was used as the standard. The autosal was standardized before each case of samples was analyzed, or every 24 samples.

Duplicate samples were taken on several casts. Bottle salinities were compared with preliminary CTD salinity values to monitor CTD conductivity cell performance and drift. The expected precision of the autosalinometer is 0.001 PSS, with an accuracy of ± 0.0003 PSS.

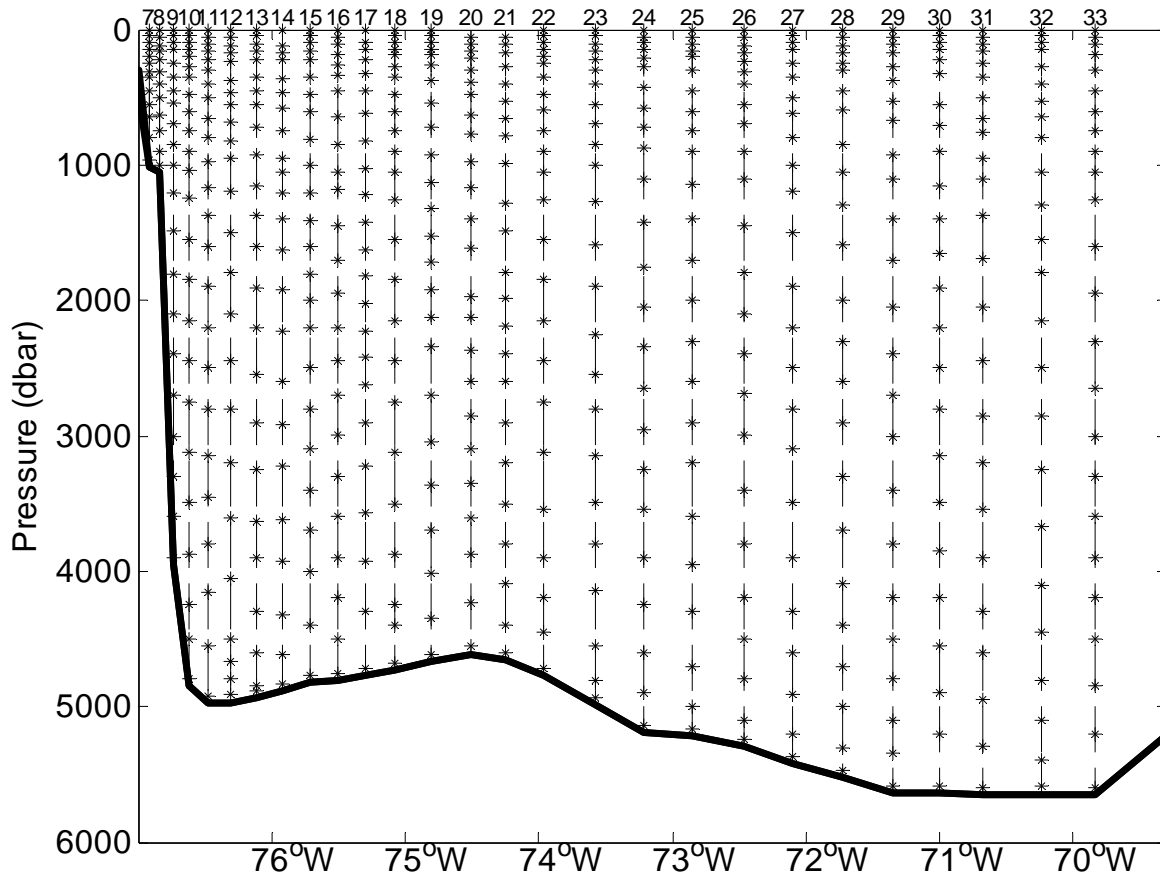


Figure 5-1 - Bottle locations for 26.5°N Deep Western Boundary Current section east of Abaco Island (Abaco section).

5.3 Oxygen Analyses

Bottle oxygen analyses were also performed in the ship's temperature-controlled salinity laboratory using a photometric automatic Winkler method titration with a Carpenter modification, and a dedicated PC. The water samples are drawn (without air bubbles) from Niskin bottles immediately upon arrival on deck. Manganese sulfate (or chloride) is added to the sample, followed by the addition of an alkaline sodium hydroxide-sodium iodide solution. These solutions "pickle" the sample causing it to precipitate and react with the dissolved oxygen in the water sample. The sample is then dissolved and photometrically titrated to an end point with a standardized sodium thiosulphate solution.

The content of oxygen value is calculated utilizing the volume of the water sample bottle and the amount of added thiosulphate. Automated titrating systems can attain a precision of about $\pm 4.46 \mu\text{mol/kg}$ [Friederich, et al., 1991].

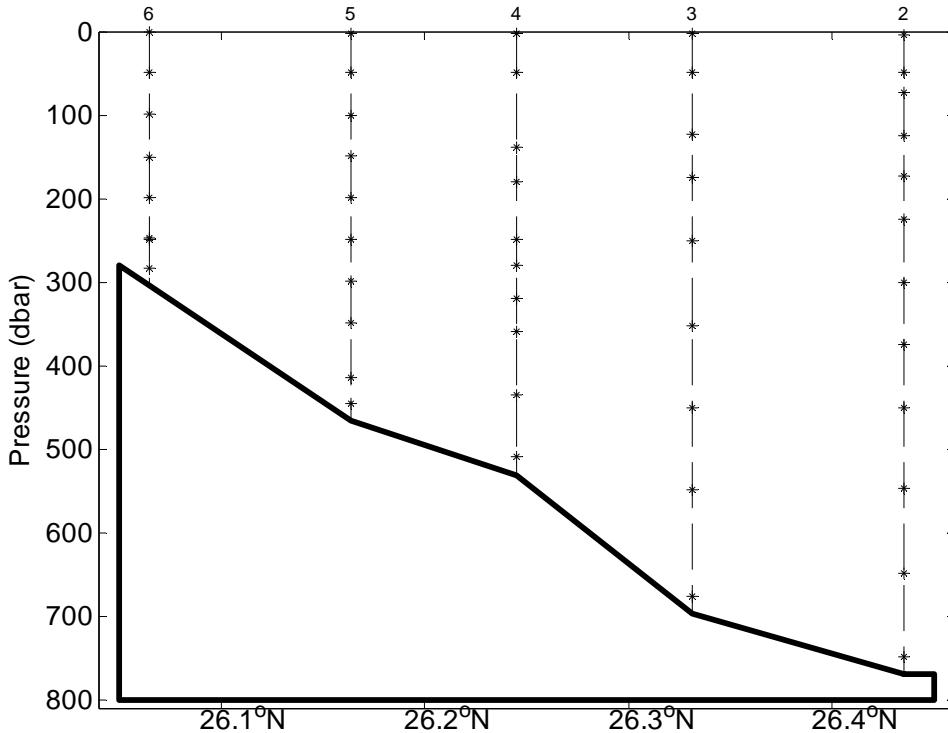


Figure 5-2 - Bottle locations for Northwest Providence Channel section.

6. Processing of CTD data

SBEDDataProc consists of modular menu driven routines for acquisition, display, processing, and archiving of oceanographic data acquired with SBE equipment. The software is designed to work with a PC with Windows operational system. 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 SBEDDataProc® post processing modules. Unless otherwise noted, all calibration parameters given are factory default values recommended by Sea Bird Electronics, Inc. The following is the SBEDDataProc® processing module sequence and specifications used in the reduction of CTD/O₂ data from this cruise:

- DATCNV converted the raw data to pressure, temperature, conductivity, oxygen current, and oxygen temperature, and computed salinity, the time rate of change of oxygen current, and preliminary oxygen. DATCNV also extracted bottle information where scans were marked with a bottle confirmation bit during acquisition.

- ALIGNCTD aligns conductivity, temperature and oxygen in time relative to pressure to ensure that all calculations are made using measurements from the same parcel of water, which minimizes salinity spiking and density errors. The SBE 11plus deck unit has factory settings to advance the primary conductivity cell; therefore, ALIGNCTD was not performed on this cell. The secondary conductivity cell, however, is not advanced in the deck unit and so was advanced 0.073 seconds in the ALIGNCTD module. Since the SBE3 temperature sensor response is fast, (0.06 seconds), it is not necessary to advance temperature relative to pressure. Oxygen sensors were not advanced
- CELLTM uses a recursive filter to remove conductivity cell thermal mass effects from measured conductivity. Both conductivity cells are epoxy coated and therefore the thermal anomaly amplitude (α) and the time constant ($1/\beta$) were 0.03 and 9.0 respectively for each sensor.
- ROSSUM created a summary of the bottle data. Bottle position, date, and time were output automatically. Pressure, temperature, conductivity, salinity, oxygen current, oxygen temperature, time rate of change of oxygen current, and preliminary oxygen values were averaged over a 2 second interval from 5 to 3 seconds prior to the confirm bit. ROSSUM computed potential temperature and sigma-theta.
- WILDEDIT marked extreme outliers in the data files. The first pass of WILDEDIT obtained an accurate estimate of the true standard deviation of the data. The data were read in blocks of 200 scans. Data greater than two standard deviations were flagged. The second pass computed a standard deviation over the same 200 scans excluding the flagged values. Values greater than 16 standard deviations were marked as bad values.
- FILTER performed a low pass filter on pressure data with a time constant of 0.15 seconds. In order to produce no time shift, the filter first runs forward through the data file and then runs backwards through the data file.
- LOOPEDIT marks data scans where the CTD package was moving less than a minimum velocity of 0.25 m/s or traveling backwards due to ship roll.
- DERIVE was used to re-compute the time rate of change of oxygen current (dox/dt) and oxygen ($\mu\text{mol/kg}$) with a time window size of 2 seconds.
- BINAVG averages the data into 1 decibar (dbar) pressure bins starting at 1 dbar with no surface bin. The center value of the first bin was set to equal the bin size. The bin minimum and maximum values are the center values \pm half the bin size. Scans with pressure values greater than the minimum and less than or equal to the maximum were averaged. Scans were interpolated so that a data record exists for every decibar. The number of points averaged in each bin was added to the variables listed in the data file.
- DERIVE recomputed salinity and calculates other oceanographic parameters (e.g. density, etc.).

- SPLIT data into up-cast (pressure decreasing) and down-cast (pressure increasing) files.
- TRANS converts the binary data file into ASCII format.

7. Post-Cruise Calibrations

Post cruise sensor calibrations were done at Sea-Bird Electronics, Inc. during June 2001. Primary TC pair T1609/C1347 and secondary oxygen sensor (s/n 130364) were selected for final data reduction for all stations. In addition to the Seasoft processing modules, a group of Matlab script files called AOML/CTDCAL Toolbox were used. These scripts were based in earlier work of different groups as well in modern statistical tools.

Table 7.1 - Calibration coefficients for the temperature sensors

| s/n 1075 June 19, 2001 | s/n 1609 June 19, 2001 |
|---------------------------|---------------------------|
| $g = 4.81077385e-03$ | $g = 4.86584016e-03$ |
| $h = 6.68822271e-04$ | $h = 6.79809001e-04$ |
| $l = 2.51066059e-05$ | $i = 2.61315502e-05$ |
| $j = 1.98467480e-06$ | $j = 2.01051410e-06$ |
| $f_0 = 1000.0$ | $f_0 = 1000.0$ |

Table 7.2 - Calibration coefficients for the conductivity sensors

| s/n 1346 June 19, 2001 | s/n 1347 June 19, 2001 |
|---------------------------|---------------------------|
| $g = -4.0734695e+00$ | $g = -3.70629517e+00$ |
| $h = 5.35702670e-01$ | $h = 4.87122911e-01$ |
| $i = 1.47891074e-04$ | $i = -5.16052716e-06$ |
| $j = 2.67641211e-05$ | $j = 3.06056848e-05$ |
| $ctcor = 3.2500e-06$ | $ctcor = 3.2500e-06$ |
| $cpcor = -6.957e-08$ | $cpcor = -7.7600e-08$ |

AOML/CTDCAL Toolbox covers 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.

7.1 CTD Data Processing

By using the post cruise sensors calibrations; time drifts were estimated for the temperature and conductivity sensors (for estimated time drifts see the appropriate sections below). The processing module sequence used at sea is done again to include the time drifts as well 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, PMEL program DELOOP computed 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 $N^2 \leq -1.0e-05s^{-2}$.

7.2 Pressure

Pressure sensor calibration coefficients derived from the pre-cruise calibrations were applied to raw pressure data during each cast. On deck pressures were constantly monitored throughout the cruise and show an average value of 1 dbar, which was applied as an offset in the configuration file, and a variability of 0.1 dbar demonstrating that no other adjustments will be required.

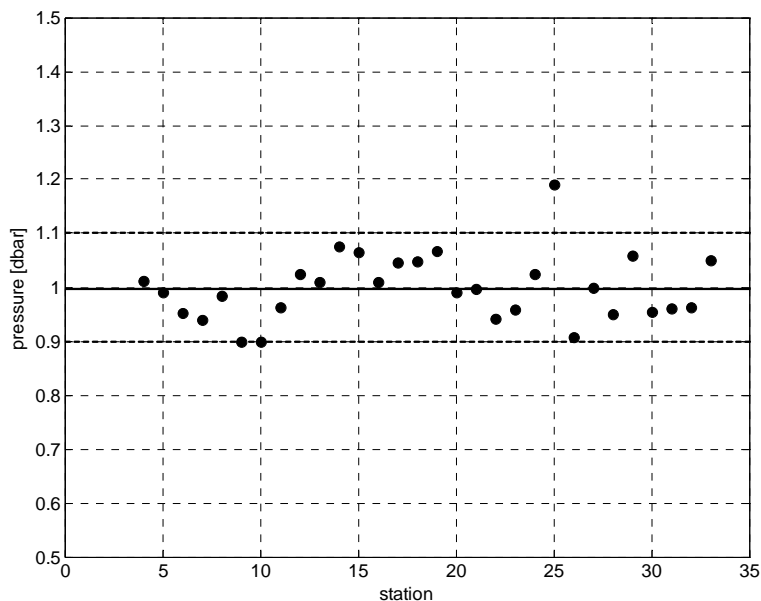


Figure 7-1 – Pressure recorded by the CTD on deck before cast

7.3 Temperature

Temperature sensor calibration coefficients derived from the pre-cruise calibrations were applied to raw primary and secondary temperature data during each cast. Usually the temperature sensors (SBE 3) drift by changing the offset. In order to correct this drift, the calibration coefficients from the post cruise calibration is necessary. Using the post-cruise calibration coefficients and the pre-cruise calibration data, a residual over the calibration temperature range is calculated. The mean residual is divided by the number of days since the pre-cruise calibration. This number is the offset per day. The offset per day is multiplied by the number of days between pre-cruise calibration and the day the data was collected to get the offset that should be entered into configuration file. Based on the post and pre calibrations time drifts were estimated for the sensors s/n 1075 and 1606 and were applied to the original configuration files.

Table 7.3 – Time drift correction for the temperature sensors

| sensor s/n | temperature offset (°C) | time interval between calibrations (days) | offset/day (°C/day) | time interval between pre-cal and cruise (days) | offset (°C) |
|------------|-------------------------|---|---------------------|---|-------------|
| 1075 | 0.00072 | 216 | 3.33e-6 | 163-174 | 5.60e-4 |
| 1609 | 0.00020 | 216 | 9.26e-7 | 163-174 | 1.56e-4 |

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 7-2. The median difference between the sensors for all data (below 500 dbar) was $-0.00007\text{ }^{\circ}\text{C}$ ($-0.00008\text{ }^{\circ}\text{C}$) for all stations with one standard deviation of $0.0005\text{ }^{\circ}\text{C}$ ($0.0003\text{ }^{\circ}\text{C}$).

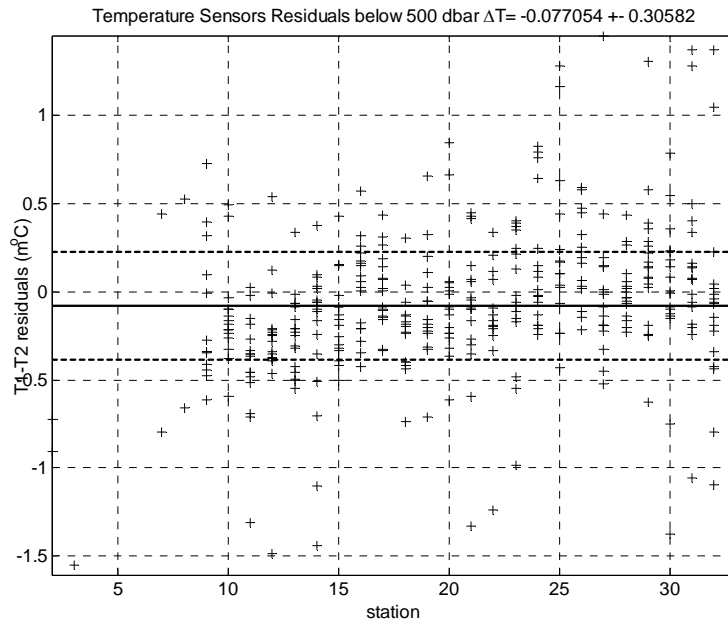


Figure 7-2 – Temperature differences between sensors by station number for $p > 500$ dbar.

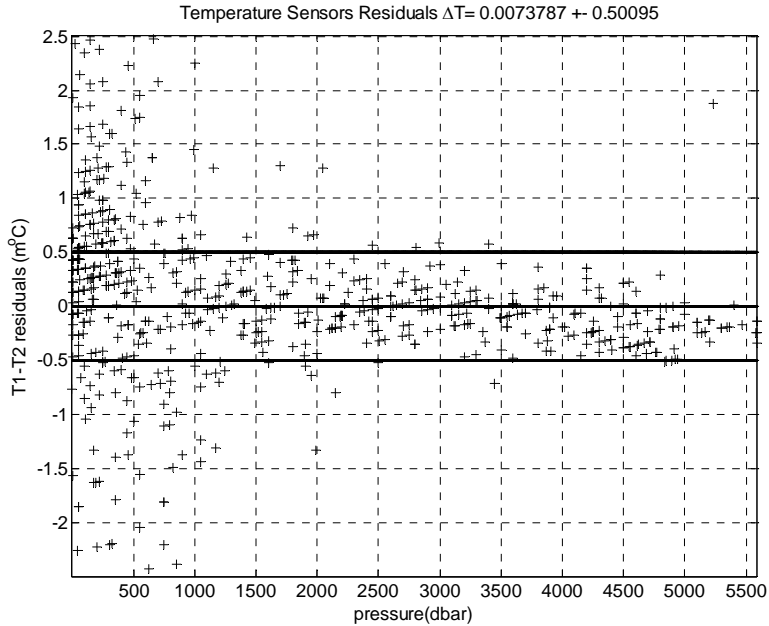


Figure 7-3 - Temperature differences between sensors at each bottle stop plotted vs. pressure.

7.4 Conductivity

The conductivity sensors (SBE 4) usually lose sensitivity as they drift, that way the drift takes a form of a slope. In order to correct this drift, the calibration coefficients from the post cruise calibration is necessary. By using the post-cruise calibration data and pre cruise calibrations coefficients together with the post cruise calibration coefficients a “postslope” is calculated. This postslope is then adjusted accordingly with the time interval between the calibrations and between the pre cruise calibration and the cruise period. Based on the post and pre calibrations time drifts were estimated for the sensors s/n 1346 and 1347 and were applied to the original configuration files.

Table 7.4 - Time drift correction for the conductivity sensors

| sensor s/n | slope correction | time interval between calibrations (days) | time interval between pre-cal and cruise (days) | New slope |
|---------------|---------------------|--|--|-----------|
| 1346 | 0.999780 | 216 | 163-174 | 1.000171 |
| 1347 | 0.999434 | 216 | 163-174 | 1.000441 |

Comparisons between the primary and secondary sensors and between each of the sensors to conductivity calculated from bottle salinities were evaluated and the secondary pair was determined to contain the lowest residuals. The secondary sensor pair was thus used for all final data values. Based on the differences between the samples and the CTD sensor outliers were removed and initially 96.5% of the samples were kept to perform the calculations.

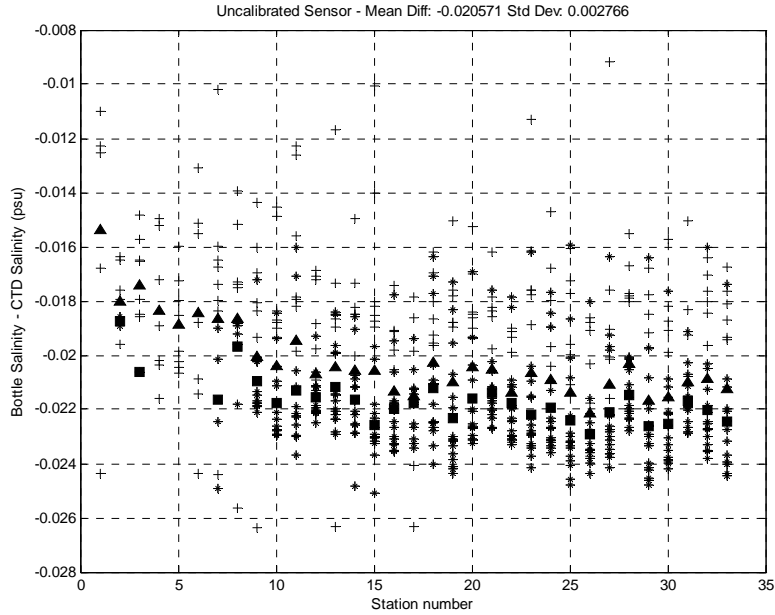


Figure 7-4 - Bottle - Uncalibrated CTD salinity differences plotted against station number. The crosses are data points above 500 dbar and the stars are the data points below 500 dbar. The average values for each group by station number are also plotted (squares and triangles respectively).

Despite the large variability of the data, in particular below 500 dbar, the samples of the first 6 casts were used for the final data reduction. Note also that the first six CTD stations were in the Florida Straits and Northwest Providence Channel 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 605 data points (91.8%) 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. In this way the function to be minimized is

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

where C_{bottle} is bottle 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.

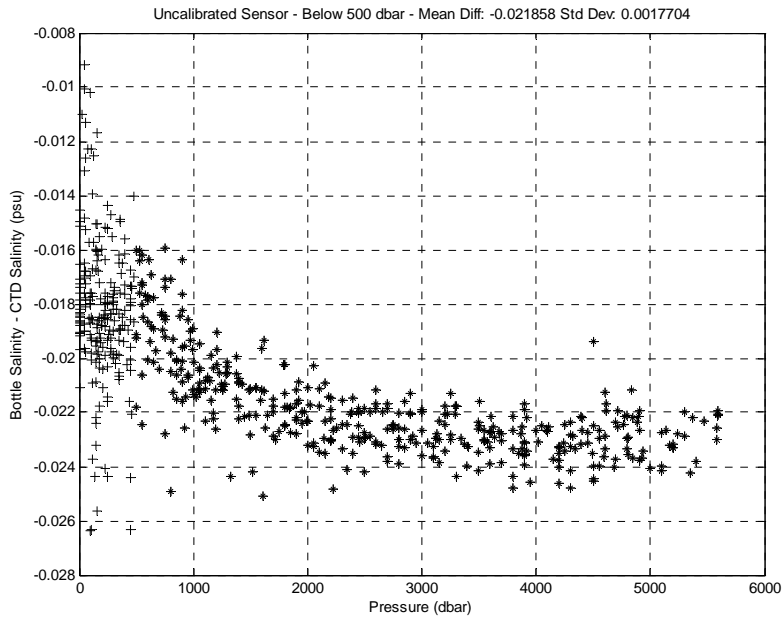


Figure 7-5 - Bottle - Uncalibrated CTD salinity differences plotted against pressure. The crosses are data points above 500 dbar and the stars are the data points below 500 dbar.

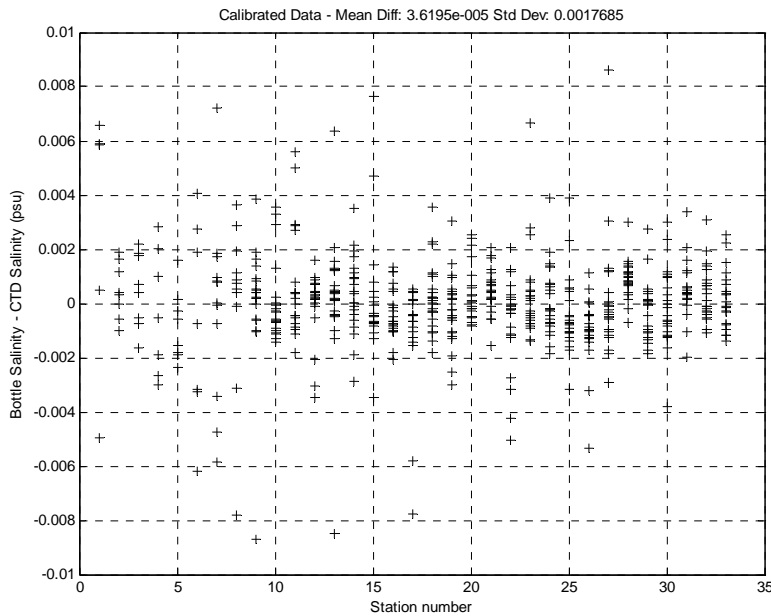


Figure 7-6 - Bottle - Calibrated CTD salinity differences plotted against station number

The coefficients estimated by the equation above were then applied to the CTD conductivities and the final results show a residual of $6.5 \cdot 10^{-7}$ psu ($9.2 \cdot 10^{-5}$ psu for the data below 500 dbar) and a standard deviation of 0.0017 psu (0.0011 psu for the data

below 500dbar). Also 85.9% of the residuals for the data are within the confidence limits determined by the WOCE (± 0.002 psu) and this number increase to 93.4% if we consider only the data below 500 dbar.

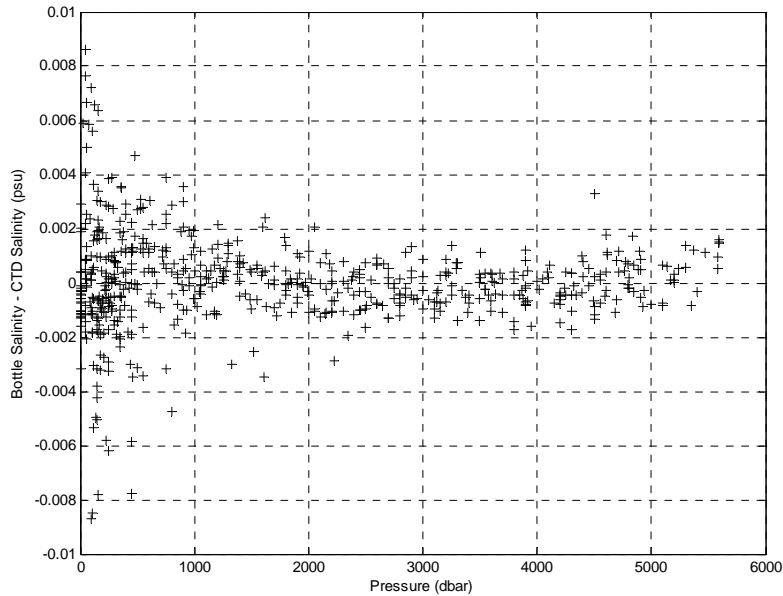


Figure 7-7 - Bottle - Calibrated CTD salinity differences plotted against pressure.

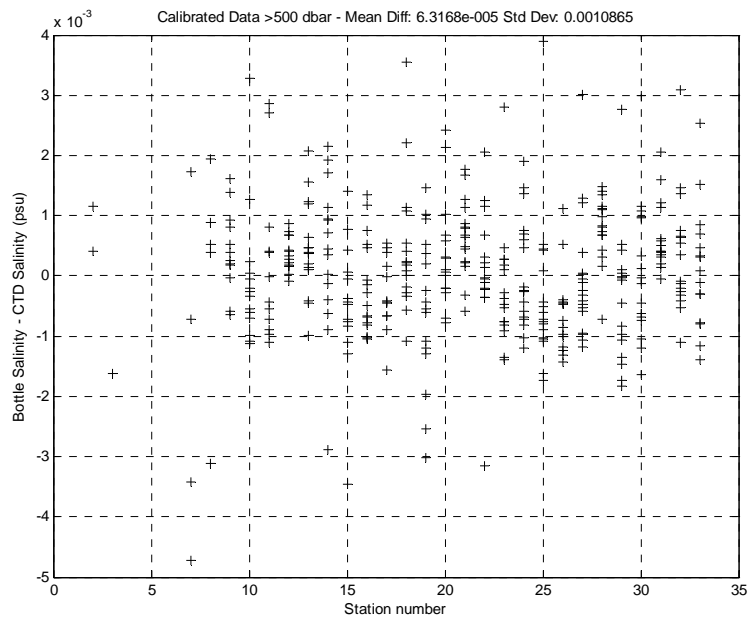


Figure 7-8 - Bottle - Calibrated CTD salinity differences plotted against station number (data below 500 dbar).

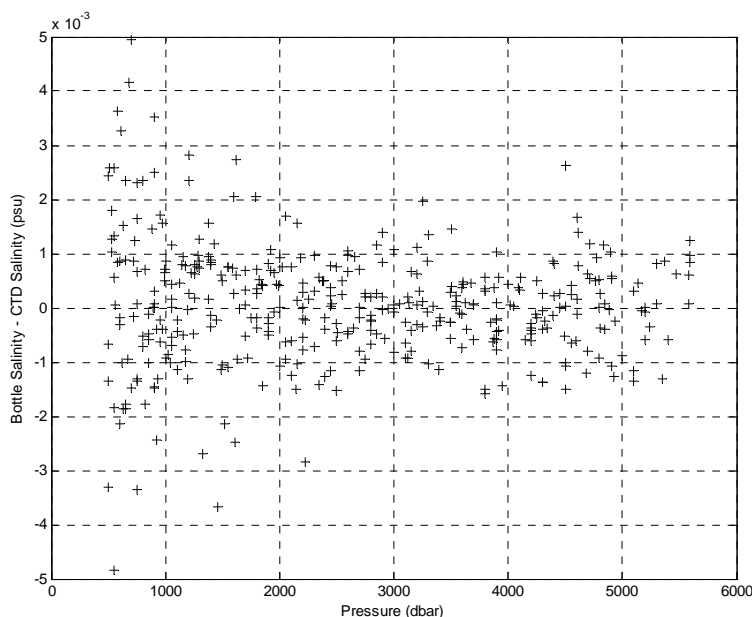


Figure 7-9 - Bottle - Calibrated CTD salinity differences plotted against pressure (data below 500 dbar).

Table 7.5 – Final statistics of the conductivity calibration. “Raw” values and “QC” values represent differences between uncalibrated CTD measurements and all unedited bottle values (Raw) and quality controlled (QC) bottle values. “Calibrated” statistics are for final processed and quality controlled CTD and bottle values. Note the QC bottle values are for large statistical outliers and represent only the first pass of QC for the bottle files.

A small number of additional bottles are flagged as questionable during the CTD calibration process (hence the % data used is slightly lower for fully calibrated data).

| Data | % data used | Residual (all) | Standard deviation (all) | Residual (>500dbar) | Standard deviation (>500dbar) | Residual (>3000dbar) | Standard deviation (>3000dbar) |
|------------|-------------|----------------|--------------------------|---------------------|-------------------------------|----------------------|--------------------------------|
| Raw | 100 | -0.1320 | 0.1874 | -0.0221 | 0.0298 | -0.0266 | 0.0466 |
| QC | 92.4 | -0.0206 | 0.0028 | -0.0219 | 0.0018 | -0.0229 | 0.0008 |
| Calibrated | 91.8 | 6.5e-7 | 0.0017 | -9.2e-5 | 0.0011 | 1.7e-5 | 0.0008 |

A final verification about the quality of the data was made by comparing the results of this cruise with some historical data available at the location of the Northwest Providence Channel section (Figure 7-10) as well at the location of the Abaco section (Figure 7-11 and Figure 7-12). 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.

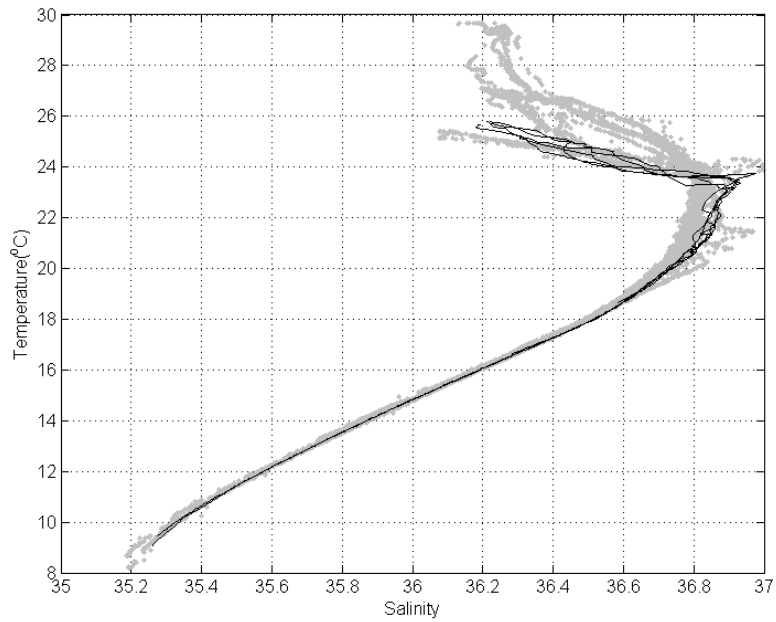


Figure 7-10 –Temperature – Salinity diagram for stations located on the Northwest Providence Channel section area. The solid black lines are the data collected during this cruise; the gray dots are data from the historical database.

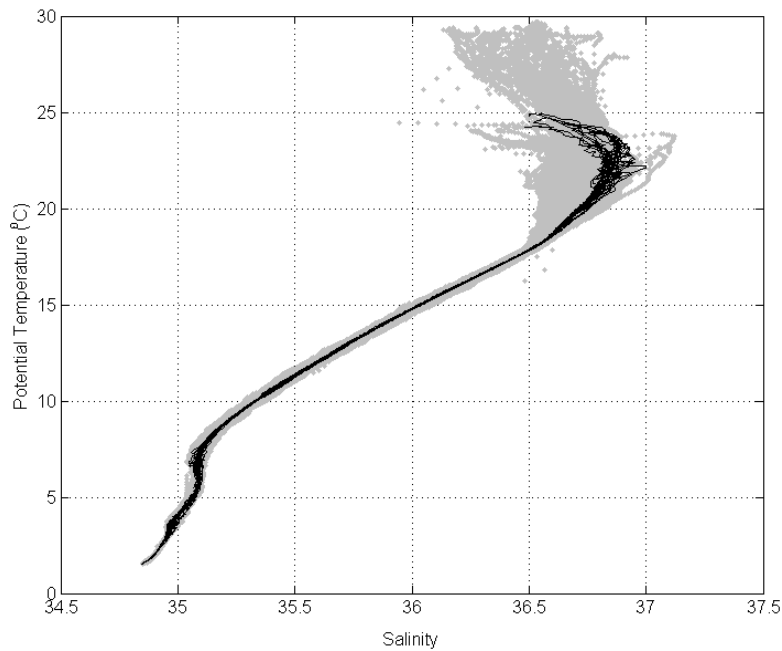


Figure 7-11 - Potential Temperature – Salinity diagram for stations located on the Abaco section area. The solid black lines are the data collected during this cruise; the gray dots are data from the historical database.

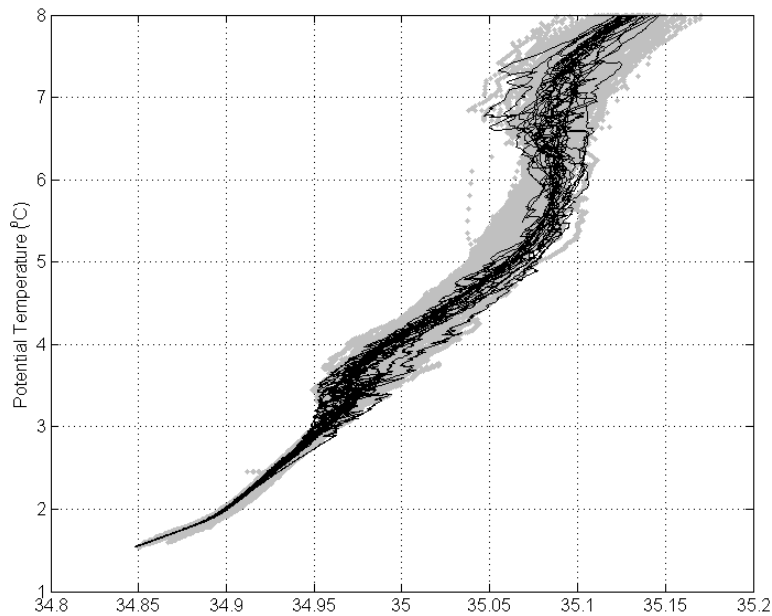


Figure 7-12 - Potential Temperature – Salinity diagram for stations located on the Abaco section area with emphasis on the properties of the deep water. The solid black lines are the data collected during this cruise; the gray dots are data from the historical database.

7.5 Dissolved Oxygen

Oxygen samples collected during CTD/O₂ profiles were used for calibration. Due to hysteresis problem with oxygen sensors, the CTD upcast data for each bottle stop was replaced with the corresponding processed downcast CTD/O₂ data at common neutral density levels

The algorithm used for converting oxygen sensor current and probe temperature measurements as described by [Owens and Millard, 1985] 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 `oxift.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 `oxift.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:

$$O(ml/l) = \left\{ Soc \cdot \left(O_c + \tau \cdot \frac{dO_c}{dt} \right) + Boc + (p_1 * sta + p_2 * sta^2) \right\} \cdot e^{(tcor \cdot (T + wt \cdot (T_0 - T)) + pcor \cdot P)} \cdot OXSAT(T, S),$$

where O_c is the instrument current (μA) and dO_c/dt ($\mu\text{A/s}$) is the slope of the current and S_{oc} , B_{oc} , w_t , t_{cor} , p_{cor} , τ , p_1 , p_2 , p_3 and p_4 are the estimated coefficients. The T , S and P are the temperature, salinity and pressure measured by the CTD, sta is the station number and OXSAT is the oxygen saturation (see section 4.4 Dissolved Oxygen).

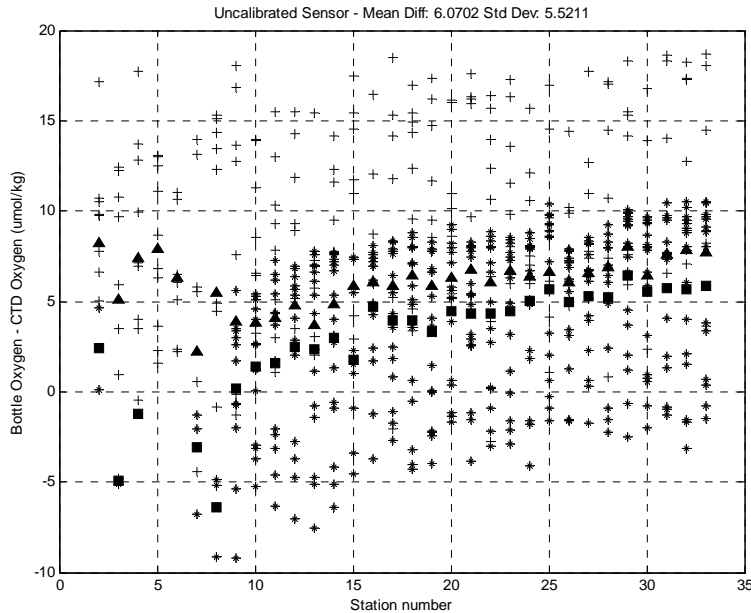


Figure 7-13 - Bottle - Uncalibrated CTD oxygen differences plotted against pressure. The crosses are data points above 500 dbar and the stars are the data points below 500 dbar. The average values for each group by station number are also plotted (squares and triangles respectively).

A comparison between the primary and secondary sensors and between each of the sensors to bottle oxygen were evaluated and the primary sensor was chose to perform the calibration. Based on the differences between the samples and the CTD sensor outliers were removed and initially 97% of the samples were kept to perform the calculations.

Despite the large variability of the data, in particular below 500 dbar, the samples of the first 8 casts were used for the final data reduction. Note that the first six stations were in the Florida Straits and Northwest Providence Channel (where bottom depths do not exceed 800m). Stations 7 and 8 were also in shallow water (less than about 1000 m depth). 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 616 data points (94.3%) were used in the final calculations.

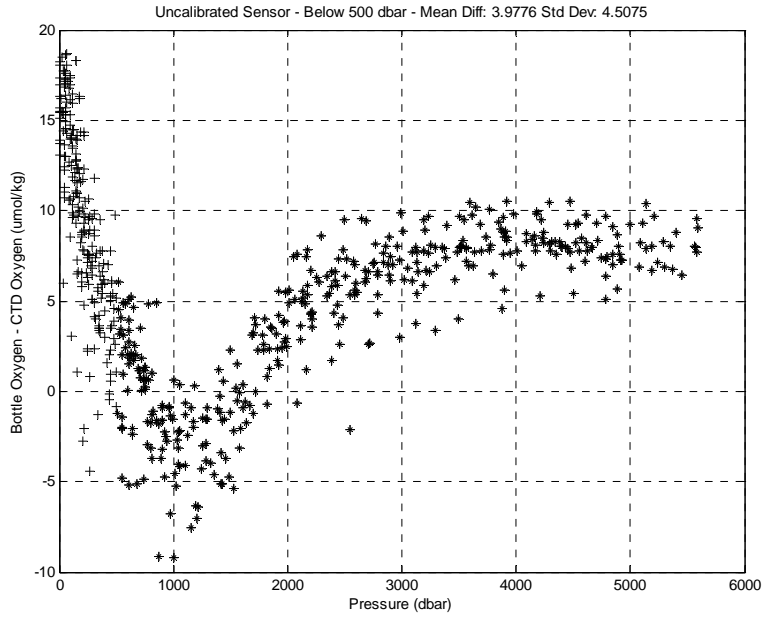


Figure 7-14 - Bottle - Uncalibrated CTD oxygen differences plotted against pressure. The crosses are data points above 500 dbar and the stars are the data points below 500 dbar.

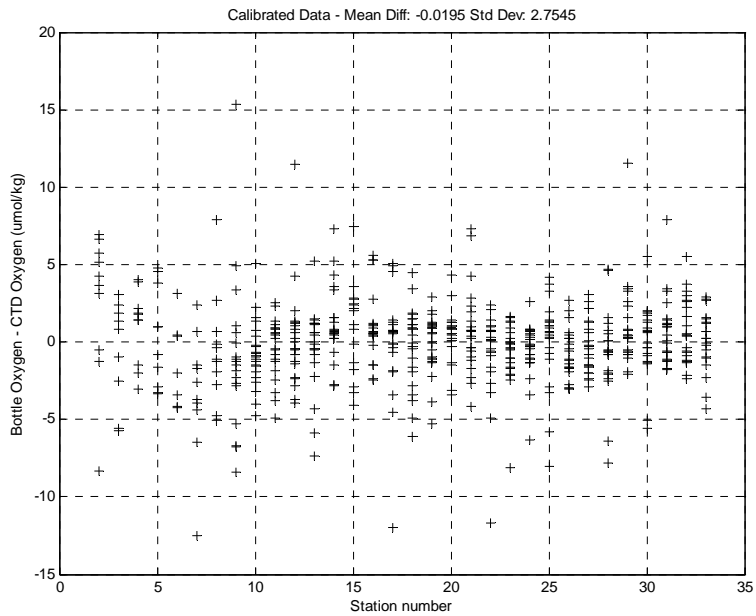


Figure 7-15 - Bottle - Calibrated CTD oxygen differences plotted against station number

By minimizing the differences between the oxygen samples and the CTD oxygen estimated from the equation described on this section, new coefficients were calculated and then applied to the CTD original data. The residual is $-0.02 \mu\text{mol/kg}$ ($-0.14 \mu\text{mol/kg}$

for the data below 500 dbar) and the standard deviation 2.75 $\mu\text{mol/kg}$ ($-1.81 \mu\text{mol/kg}$ for the data below 500 dbar).). Also 68% 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 82% if we consider only the data below 500 dbar.

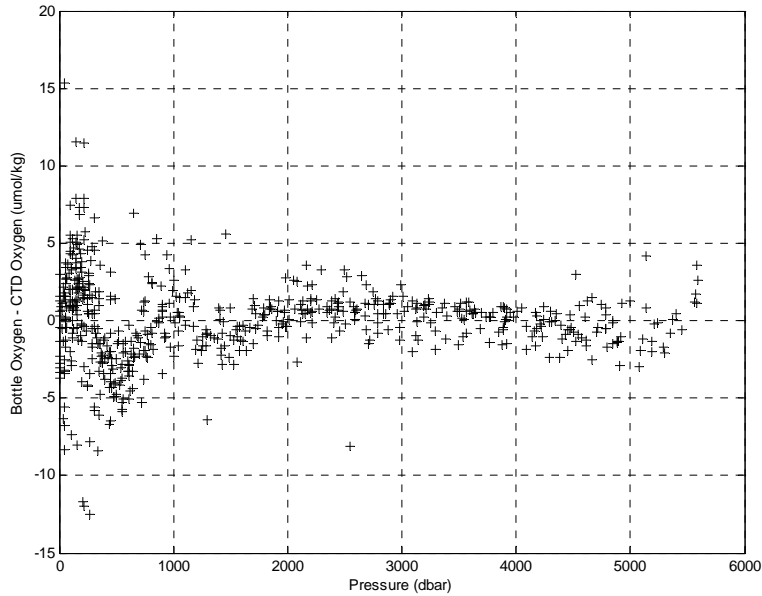


Figure 7-16 - Bottle - Calibrated CTD oxygen differences plotted against pressure

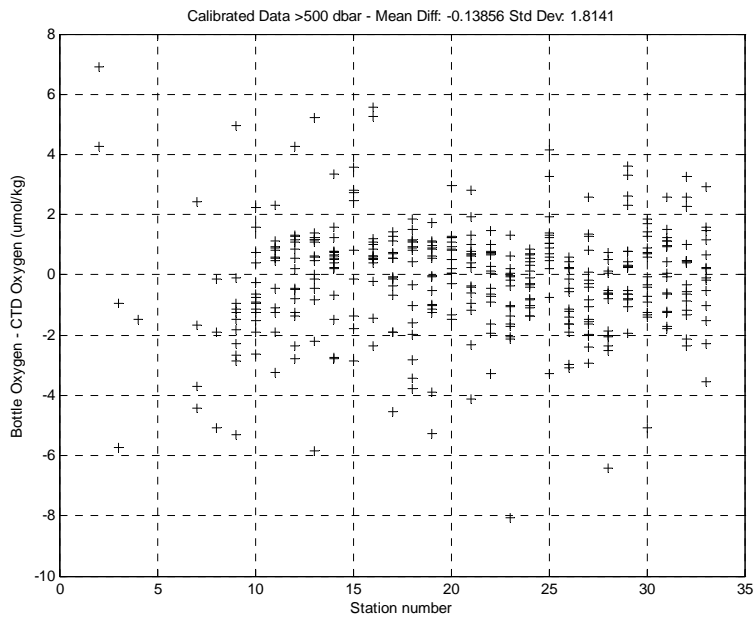


Figure 7-17 - Bottle - Calibrated CTD oxygen differences plotted against station number for data points below 500 dbar.

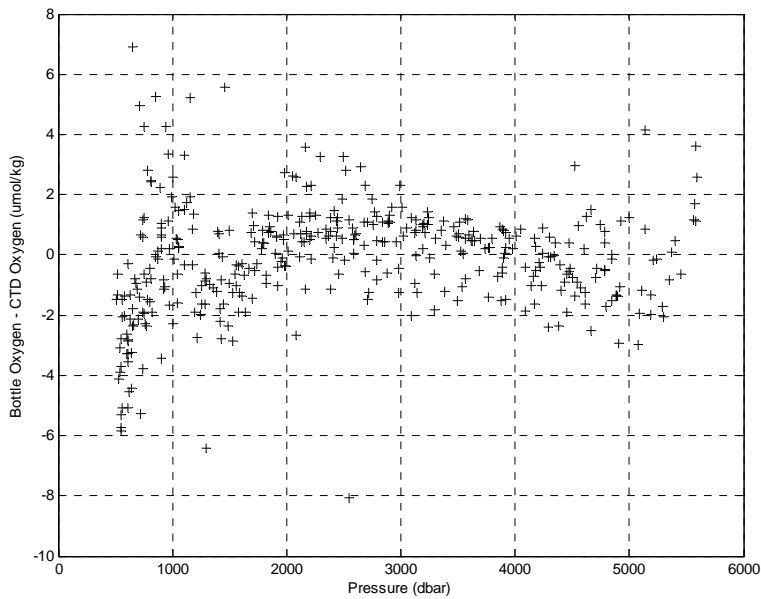


Figure 7-18 - Bottle - Calibrated CTD oxygen differences plotted against station number (data points below 500 dbar).

Table 7.6 – Final Statistics of the oxygen calibration (values in $\mu\text{mol/kg}$). “Raw” values and “QC” values represent differences between uncalibrated CTD measurements and all unedited bottle values (Raw) and quality controlled (QC) bottle values. “Calibrated” statistics are for final processed and quality controlled CTD and bottle values. Note the QC bottle values are for large statistical outliers and represent only the first pass of QC for the bottle files. A small number of additional bottles are flagged as questionable during the CTD calibration process (hence the % data used is slightly lower for fully calibrated data).

| Data | % data used | Residual (all) | Standard deviation (all) | Residual (>500dbar) | Standard deviation (>500dbar) |
|------------|-------------|----------------|--------------------------|---------------------|-------------------------------|
| Raw | 100 | 6.18 | 6.68 | 3.87 | 5.52 |
| QC | 94.3 | 6.07 | 5.52 | 3.97 | 4.51 |
| Calibrated | 93.2 | -0.02 | 2.75 | -0.14 | 1.81 |

A final verification about the quality of the data, like in the salinity data, was made by comparing the results of this cruise with some historical data available at the location of the Abaco section (Figure 7-19 and Figure 7-20), unfortunately no dissolved oxygen data were available in the database in the area of the Northwest Providence Channel section. Again by investigating water mass properties, particularly for deeper layers of the ocean, we can have an estimative of the quality of these data.

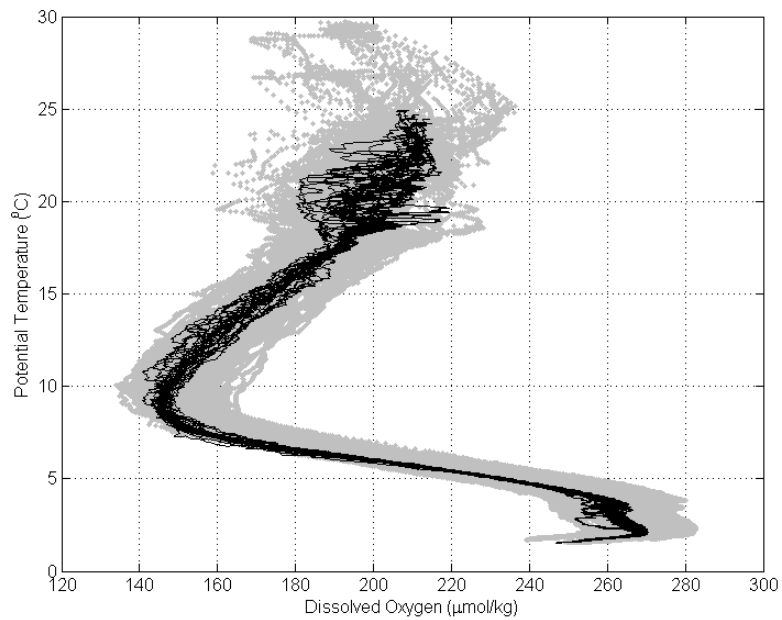


Figure 7-19 - Potential Temperature – Dissolved Oxygen diagram for stations located on the Abaco section area. The solid black lines are the data collected during this cruise; the gray dots are data from the historical database.

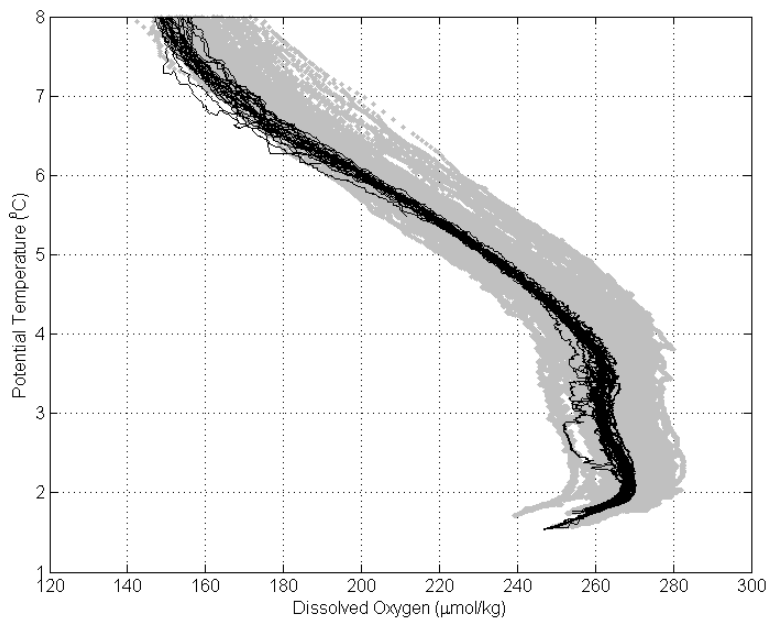


Figure 7-20 - Potential Temperature – Dissolved Oxygen diagram for stations located on the Abaco section area with emphasis on the properties of the deep water. The solid black lines are the data collected during this cruise; the gray dots are data from the historical database.

8. Final CTD Data Presentation

AOML/CTDCAL Toolbox processes finalized CTD/O₂ data and computes ITS-90 temperature, ITS-90 potential temperature and dynamic height. The final calibrated data files were used to produce the tables and station profile plots presented in Appendix B for each CTD station. The table on the left is in “standard depths” and its corresponding profile plot is shown on the facing 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 8-1 to Figure 8-4). Nominal vertical exaggerations are 100:1 below 1000 dbar (lower panels) and 40:1 above 1000 dbar (upper panels). For the Northwest Providence Channel Sections latitude is used as horizontal axis (Figure 8-5 to Figure 8-8)

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 they bottle samples failed the initial quality control and were not used for the calibration (which meant they typically fell outside 5 standard deviations of the difference between samples and uncalibrated CTD values). Questionable flags (WOCE quality control value = 3) were defined by using the value of 2.8 times the standard deviation of the difference between calibrated CTD values and bottle samples.

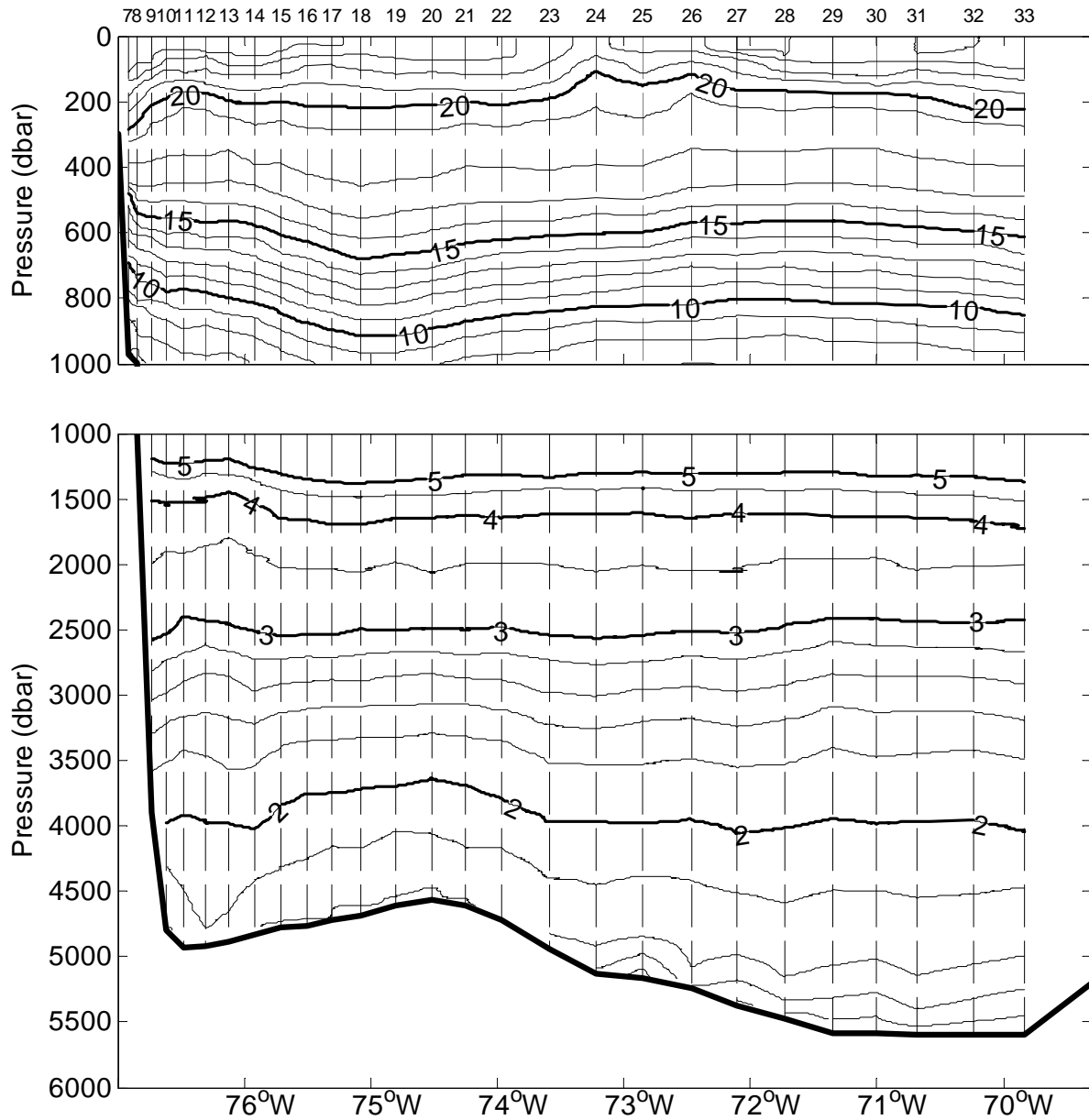


Figure 8-1 – Potential Temperature (°C) section for the Abaco Section. Contour intervals are 0.1°C from 1-2 °C, 0.2°C from 2-3°C, 0.5°C from 3-5°C and 1°C for 5-35°C. Dashed vertical lines are the CTD station locations.

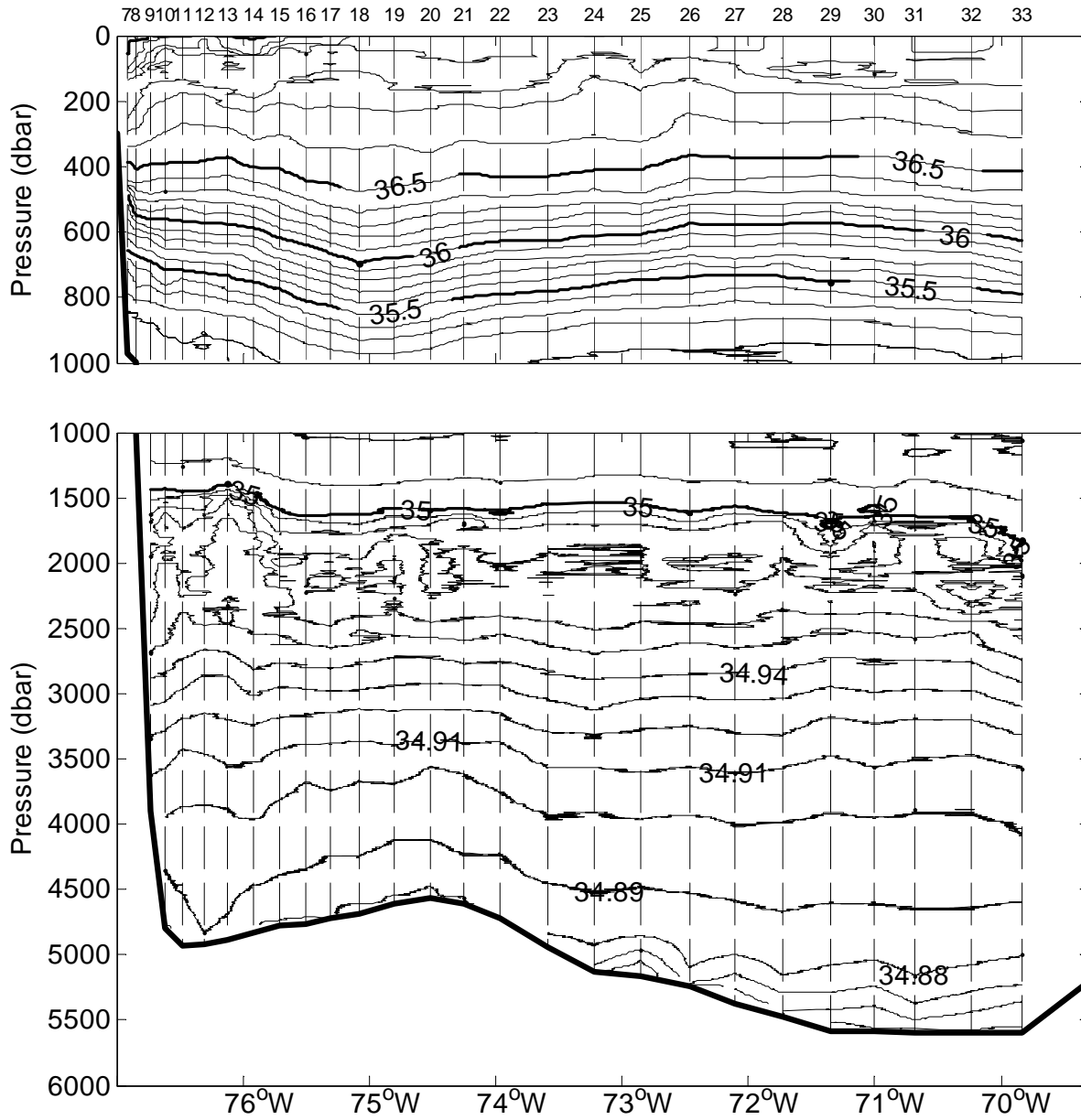


Figure 8-2 – Salinity (PSS 78) section for the Abaco section. Contour intervals are 0.01 from 34-35, 0.05 from 35-35.1 and 0.1 from 35.1-38. Dashed vertical lines are the CTD station locations.

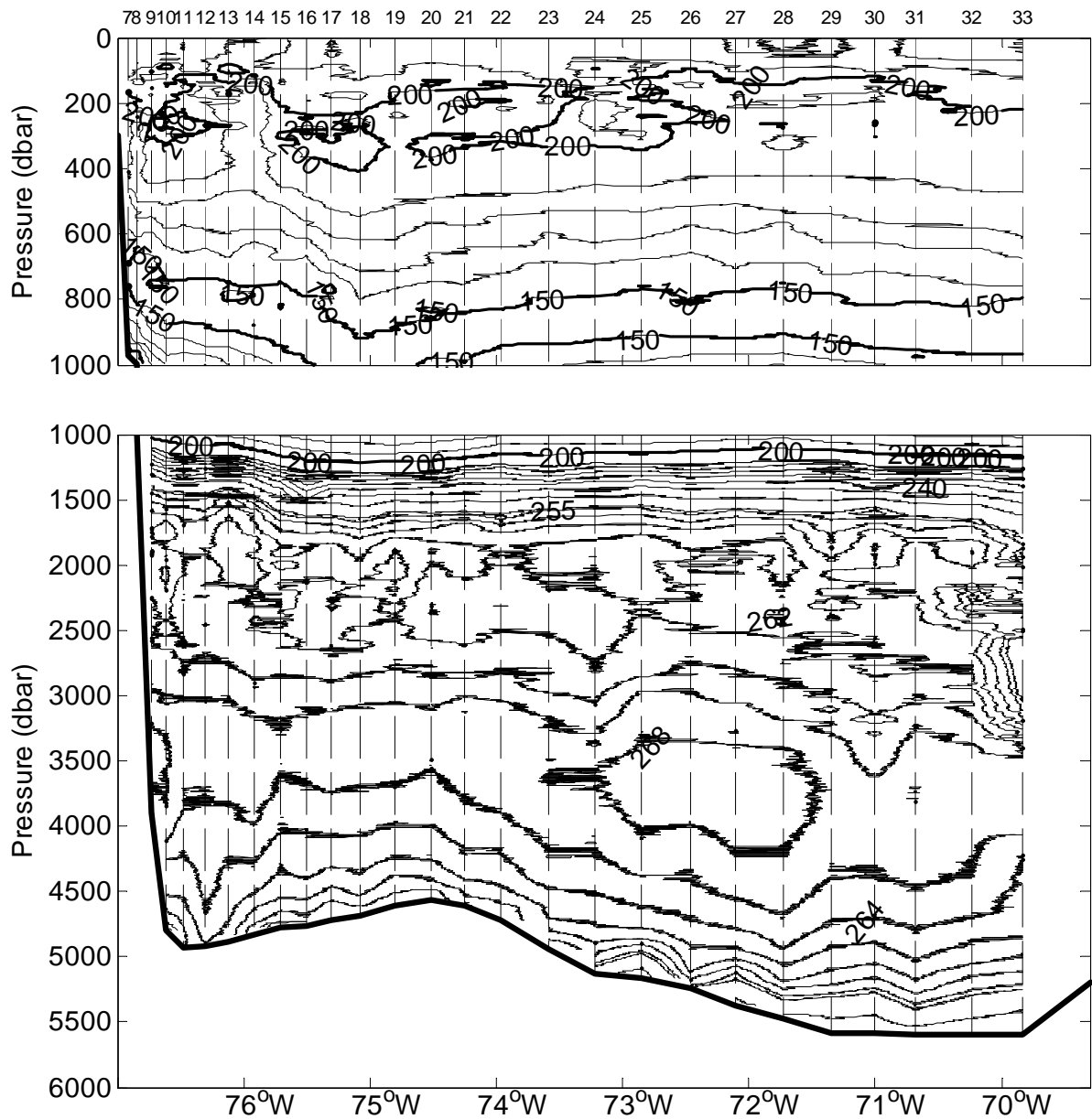


Figure 8-3 – Dissolved Oxygen ($\mu\text{mol/kg}$) section for the Abaco Section. Contour intervals are 10 $\mu\text{mol/kg}$ from 100-300 $\mu\text{mol/kg}$ in the upper panel. In the lower panel, contours are 20 $\mu\text{mol/kg}$ from 100-220 $\mu\text{mol/kg}$ and 5 $\mu\text{mol/kg}$ from 220-255 $\mu\text{mol/kg}$ and 2 $\mu\text{mol/kg}$ from 256-270 $\mu\text{mol/kg}$. Dashed vertical lines are the CTD station locations.

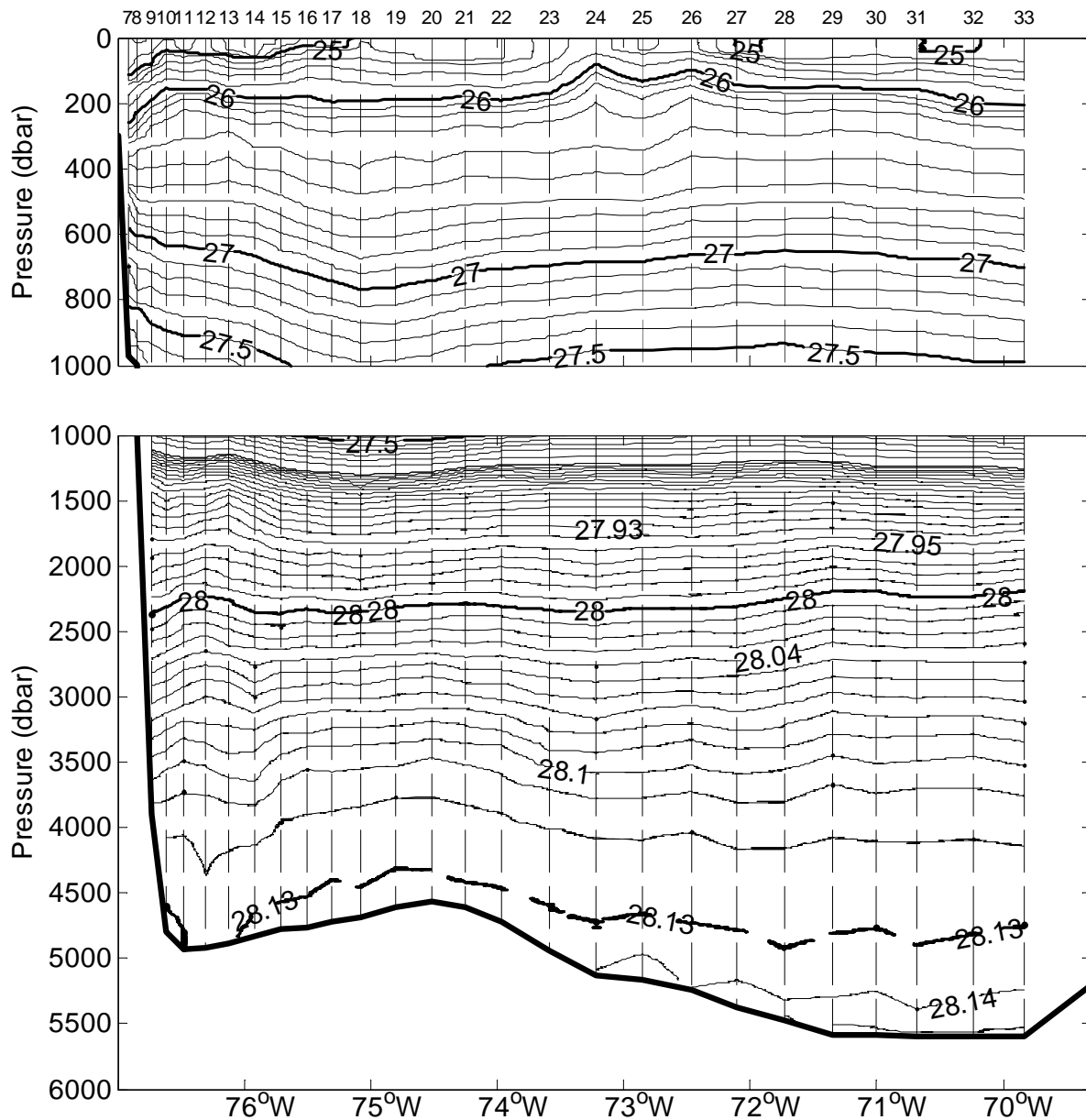


Figure 8-4 – Neutral density (kg/m^3) section for the Abaco Section. Contour intervals are 0.2 kg/m^3 for $24\text{--}26 \text{ kg/m}^3$, 0.1 kg/m^3 for $26\text{--}28 \text{ kg/m}^3$ in the upper panel. In the lower panel, contour intervals are 0.05 kg/m^3 for $27\text{--}27.8 \text{ kg/m}^3$ and 0.01 kg/m^3 to 27.8 to 29 kg/m^3 . Dashed vertical lines are the CTD station locations.

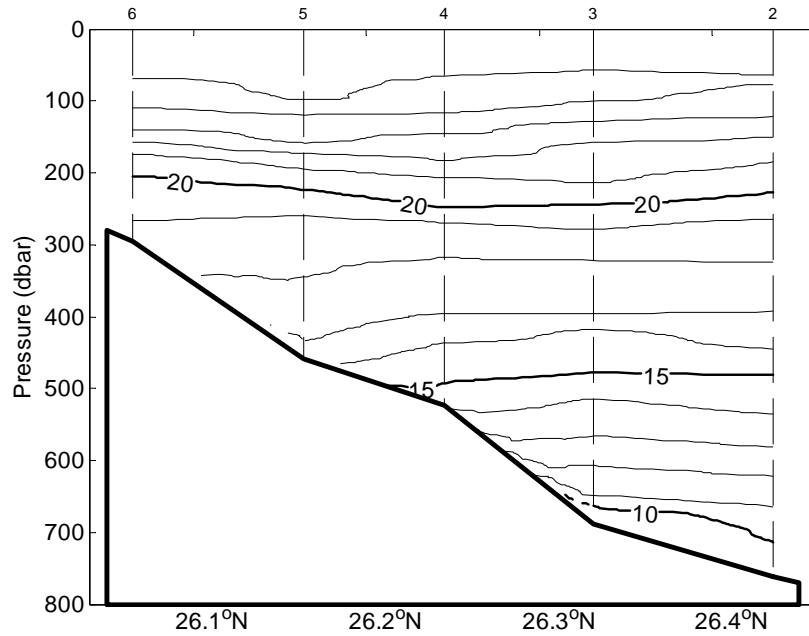


Figure 8-5 – Potential Temperature ($^{\circ}\text{C}$) section for the Northwest Providence Channel Section. Contour intervals are 0.1°C from $1\text{-}2^{\circ}\text{C}$, 0.2°C from $2\text{-}3^{\circ}\text{C}$, 0.5°C from $3\text{-}5^{\circ}\text{C}$ and 1°C for $5\text{-}35^{\circ}\text{C}$. Dashed vertical lines are the CTD station locations.

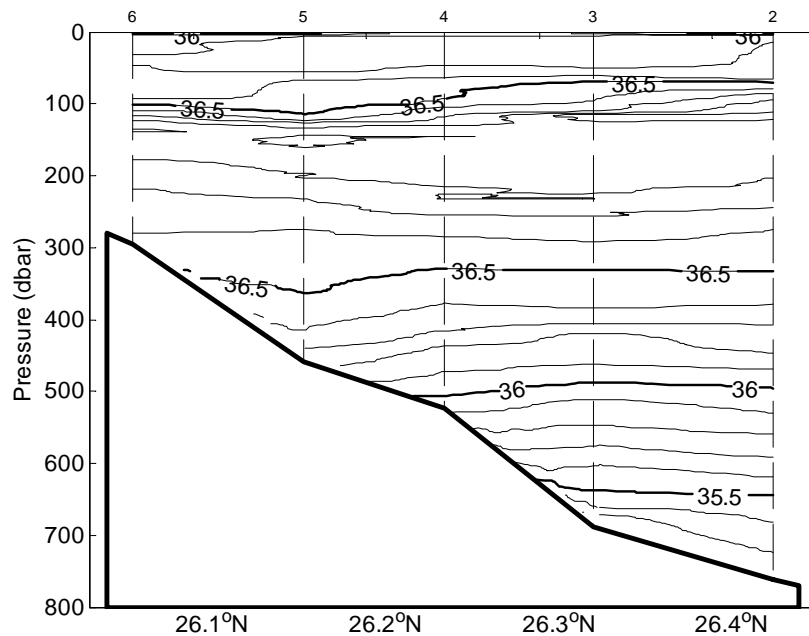


Figure 8-6 – Salinity (PSS 78) section for the Northwest Providence Channel section. Contour intervals are 0.01 from $34\text{-}35$, 0.05 from $35\text{-}35.1$ and 0.1 from $35.1\text{-}38$. Dashed vertical lines are the CTD station locations.

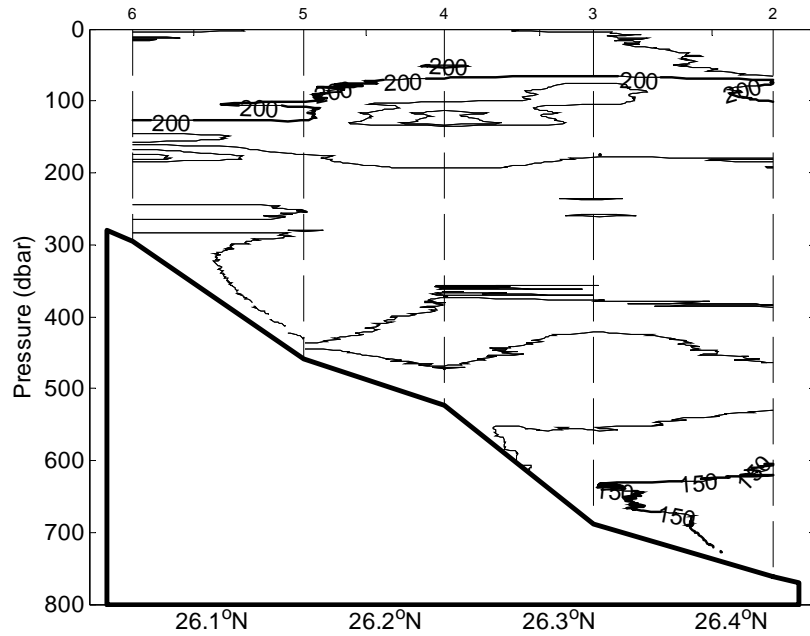


Figure 8-7 – Dissolved Oxygen ($\mu\text{mol/kg}$) section for the Northwest Providence Channel Section. Contour intervals are $10 \mu\text{mol/kg}$. Dashed vertical lines are the CTD station locations.

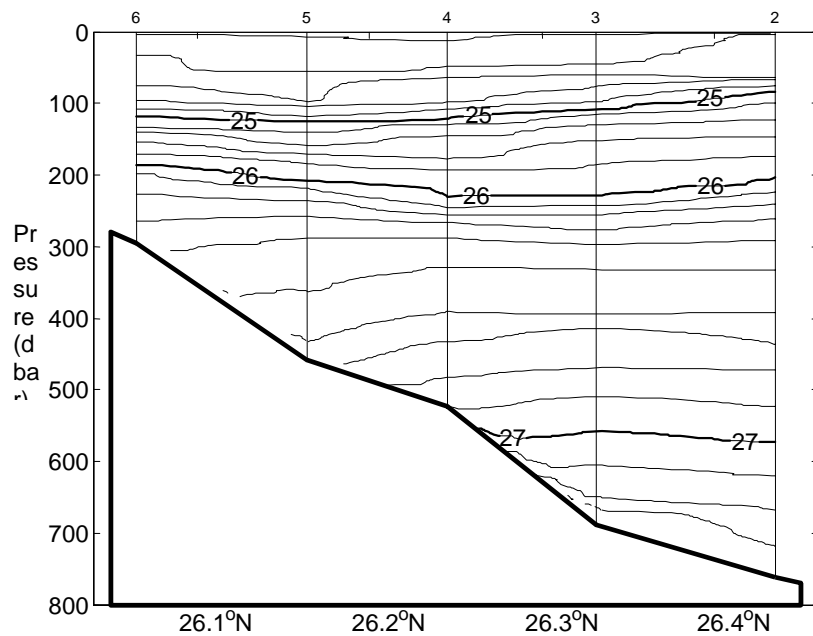


Figure 8-8 – Neutral density (kg/m^3) section for the Northwest Providence Channel Section. Contour intervals are 0.2 kg/m^3 for $24\text{-}26 \text{ kg/m}^3$, 0.1 kg/m^3 for $26\text{-}28 \text{ kg/m}^3$. Dashed vertical lines are the CTD station locations.

9. Acknowledgements

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Appendix A - WOCE Summary File

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| SHIP/CRS | WOCE | | CAST | CAST | UTC | EVENT | LATITUDE | LONGITUDE | | UNC | HT ABOVE | WIRE | MAX | NO. OF PARAMETERS | COMMENTS | | | | |
|----------|------|--------|--------|------|-------|-------|----------|-----------|-----|-----|----------|------|-------|-------------------|----------|-------|---------|--------------------------|--------------------------------------|
| EXPCODE | SECT | STNNBR | CASTNO | TYPE | DATE | TIME | CODE | DEG | MIN | DEG | MIN | NAV | DEPTH | BOTTOM | OUT | PRESS | BOTTLES | | |
| OC365/9 | AB01 | 1 | 1 | ROS | 42601 | 2019 | BE 27 | 0.716 | N | 79 | 55.351 | W | GPS | | | | | CTD2 NO CNFRM BTLS 2 5 8 | |
| OC365/9 | AB01 | 1 | 1 | ROS | 42601 | 2031 | BO 27 | 1.442 | N | 79 | 55.159 | W | GPS | 157 | | 139.6 | 9 | 1,2 | |
| OC365/9 | AB01 | 1 | 1 | ROS | 42601 | 2048 | EN 27 | 2.730 | N | 79 | 54.680 | W | GPS | | | | | | |
| OC365/9 | AB01 | 2 | 2 | ROS | 42601 | 1125 | BE 26 | 26.033 | N | 78 | 40.007 | W | GPS | | | | | | |
| OC365/9 | AB01 | 2 | 2 | ROS | 42601 | 1200 | BO 26 | 26.507 | N | 78 | 40.104 | W | GPS | 741 | | 746.4 | 12 | 1,2 | CTD2 BTL 3 NO FIRE |
| OC365/9 | AB01 | 2 | 2 | ROS | 42601 | 1208 | EN 26 | 26.610 | N | 78 | 40.102 | W | GPS | | | | | | |
| OC365/9 | AB01 | 3 | 3 | ROS | 42701 | 1301 | BE 26 | 19.887 | N | 78 | 42.841 | W | GPS | | | | | | |
| OC365/9 | AB01 | 3 | 3 | ROS | 42701 | 1321 | BO 26 | 19.519 | N | 78 | 42.786 | W | GPS | 656 | | 660.4 | 9 | 1,2 | CTD1 PSBL LEAK STOPPER ON SFC BOTTLE |
| OC365/9 | AB01 | 3 | 3 | ROS | 42701 | 1339 | EN 26 | 19.033 | N | 78 | 42.974 | W | GPS | | | | | | |
| OC365/9 | AB01 | 4 | 4 | ROS | 42701 | 1417 | BE 26 | 14.705 | N | 78 | 46.181 | W | GPS | | | | | | |
| OC365/9 | AB01 | 4 | 4 | ROS | 42701 | 1430 | BO 26 | 14.392 | N | 78 | 46.349 | W | GPS | 507 | | 510.3 | 10 | | |
| OC365/9 | AB01 | 4 | 4 | ROS | 42701 | 1451 | EN 26 | 13.973 | N | 78 | 46.595 | W | GPS | | | | | | |
| OC365/9 | AB01 | 5 | 5 | ROS | 42701 | 1533 | BE 26 | 9.837 | N | 78 | 48.242 | W | GPS | | | | | | |
| OC365/9 | AB01 | 5 | 5 | ROS | 42701 | 1544 | BO 26 | 9.667 | N | 78 | 48.358 | W | GPS | 443 | | 446.1 | 10 | 1,2 | |
| OC365/9 | AB01 | 5 | 5 | ROS | 42701 | 1600 | EN 26 | 9.837 | N | 78 | 48.292 | W | GPS | | | | | | |
| OC365/9 | AB01 | 6 | 6 | ROS | 42701 | 1652 | BE 26 | 3.926 | N | 78 | 51.319 | W | GPS | | | | | | |
| OC365/9 | AB01 | 6 | 6 | ROS | 42701 | 1659 | BO 26 | 3.897 | N | 78 | 51.467 | W | GPS | 283 | | 284.6 | 8 | 1,2 | |
| OC365/9 | AB01 | 6 | 6 | ROS | 42801 | 1708 | EN 26 | 3.846 | N | 78 | 51.656 | W | GPS | | | | | | |
| OC365/9 | AB01 | 7 | 7 | ROS | 42801 | 616 | BE 26 | 29.932 | N | 76 | 54.704 | W | GPS | | | | | | |
| OC365/9 | AB01 | 7 | 7 | ROS | 42801 | 649 | BO 26 | 30.075 | N | 76 | 54.855 | W | GPS | 978 | 8 | 970 | 978.0 | 13 | 1,2 |
| OC365/9 | AB01 | 7 | 7 | ROS | 42801 | 715 | EN 26 | 30.183 | N | 76 | 54.720 | W | GPS | | | | | | |
| OC365/9 | AB01 | 8 | 8 | ROS | 42801 | 1015 | BE 26 | 30.646 | N | 76 | 50.453 | W | GPS | | | | | | |
| OC365/9 | AB01 | 8 | 8 | ROS | 42801 | 1048 | BO 26 | 30.724 | N | 76 | 50.585 | W | GPS | 1005 | 8.6 | 1000 | 997.7 | 12 | 1,2 |
| OC365/9 | AB01 | 8 | 8 | ROS | 42801 | 1116 | EN 26 | 30.853 | N | 76 | 50.668 | W | GPS | | | | | | |
| OC365/9 | AB01 | 9 | 9 | ROS | 42801 | 1206 | BE 26 | 30.039 | N | 76 | 44.046 | W | GPS | | | | | | |
| OC365/9 | AB01 | 9 | 9 | ROS | 42801 | 1319 | BO 26 | 30.394 | N | 76 | 45.219 | W | GPS | 3913 | 10.1 | 4102 | 3903.7 | 21 | 1,2 |
| OC365/9 | AB01 | 9 | 9 | ROS | 42801 | 1439 | EN 26 | 31.186 | N | 76 | 46.681 | W | GPS | | | | | | |
| OC365/9 | AB01 | 10 | 10 | ROS | 42801 | 1546 | BE 26 | 30.114 | N | 76 | 37.839 | W | GPS | | | | | | |
| OC365/9 | AB01 | 10 | 10 | ROS | 42801 | 1709 | BO 26 | 30.800 | N | 76 | 36.867 | W | GPS | 4729 | 7.3 | 4767 | 4788.6 | 24 | 1,2 |
| OC365/9 | AB01 | 10 | 10 | ROS | 42801 | 1833 | EN 26 | 31.862 | N | 76 | 37.968 | W | GPS | | | | | | |
| OC365/9 | AB01 | 11 | 11 | ROS | 42801 | 2214 | BE 26 | 30.093 | N | 76 | 28.922 | W | GPS | | | | | | |
| OC365/9 | AB01 | 11 | 11 | ROS | 42801 | 2355 | BO 26 | 31.624 | N | 76 | 29.541 | W | GPS | 4842 | 12.1 | 5074 | 4925.3 | 24 | 1,2 |
| OC365/9 | AB01 | 11 | 11 | ROS | 42801 | 129 | EN 26 | 33.276 | N | 76 | 30.156 | W | GPS | | | | | | |
| OC365/9 | AB01 | 12 | 12 | ROS | 42901 | 242 | BE 26 | 30.072 | N | 76 | 18.022 | W | GPS | | | | | | |
| OC365/9 | AB01 | 12 | 12 | ROS | 42901 | 420 | BO 26 | 31.738 | N | 76 | 18.977 | W | GPS | 4828 | 12.6 | 5055 | 4913.0 | 24 | 1,2 |
| OC365/9 | AB01 | 12 | 12 | ROS | 42901 | 552 | EN 26 | 33.434 | N | 76 | 19.982 | W | GPS | | | | | | |
| OC365/9 | AB01 | 13 | 13 | ROS | 42901 | 717 | BE 26 | 30.081 | N | 76 | 7.040 | W | GPS | | | | | | |
| OC365/9 | AB01 | 13 | 13 | ROS | 42901 | 853 | BO 26 | 31.704 | N | 76 | 7.637 | W | GPS | 4807 | 12.8 | 5320 | 4889.5 | 24 | 1,2 |
| OC365/9 | AB01 | 13 | 13 | ROS | 42901 | 1044 | EN 26 | 33.432 | N | 76 | 8.783 | W | GPS | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|----|----|-----|-------|------|----|----|-------------|--------|---|-----|------|------|------|--------|----|-----|-------------------------------------|
| OC365/9 | AB01 | 14 | 14 | ROS | 42901 | 1205 | BE | 26 | 30.073 N 75 | 54.999 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 14 | 14 | ROS | 42901 | 1343 | BO | 26 | 31.841 N 75 | 55.657 | W | GPS | 4748 | 10.3 | 5473 | 4834.0 | 24 | 1,2 | 2 FIRED AT 65M |
| OC365/9 | AB01 | 14 | 14 | ROS | 42901 | 1524 | EN | 26 | 33.592 N 75 | 56.265 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 15 | 15 | ROS | 42901 | 1922 | BE | 26 | 30.303 N 75 | 42.373 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 15 | 15 | ROS | 42901 | 2111 | BO | 26 | 33.038 N 75 | 43.689 | W | GPS | 4690 | 10.1 | 5967 | 4768.9 | 24 | 1,2 | |
| OC365/9 | AB01 | 15 | 15 | ROS | 42901 | 2306 | EN | 26 | 35.660 N 75 | 45.110 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 16 | 16 | ROS | 42901 | 111 | BE | 26 | 30.443 N 75 | 30.111 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 16 | 16 | ROS | 42901 | 237 | BO | 26 | 31.877 N 75 | 30.908 | W | GPS | 4683 | 9.8 | 5005 | 4762.5 | 24 | 1,2 | |
| OC365/9 | AB01 | 16 | 16 | ROS | 42901 | 405 | EN | 26 | 33.356 N 75 | 31.224 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 17 | 17 | ROS | 43001 | 605 | BE | 26 | 30.051 N 75 | 18.138 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 17 | 17 | ROS | 43001 | 724 | BO | 26 | 30.929 N 75 | 18.232 | W | GPS | 4636 | 6.6 | 4697 | 4718.6 | 23 | 1,2 | BOTTLE 24 DID NOT FIRE |
| OC365/9 | AB01 | 17 | 17 | ROS | 43001 | 857 | EN | 26 | 32.133 N 75 | 18.448 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 18 | 18 | ROS | 43001 | 1057 | BE | 26 | 30.025 N 75 | 5.000 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 18 | 18 | ROS | 43001 | 1228 | BO | 26 | 31.720 N 75 | 5.450 | W | GPS | 4603 | 9.5 | 5011 | 4685.4 | 24 | 1,2 | |
| OC365/9 | AB01 | 18 | 18 | ROS | 43001 | 1401 | EN | 26 | 33.080 N 75 | 5.218 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 19 | 19 | ROS | 43001 | 1608 | BE | 26 | 29.780 N 74 | 48.115 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 19 | 19 | ROS | 43001 | 1728 | BO | 26 | 30.144 N 74 | 47.793 | W | GPS | 4508 | 8.1 | 4605 | 4612.5 | 24 | 1,2 | |
| OC365/9 | AB01 | 19 | 19 | ROS | 43001 | 1857 | EN | 26 | 30.291 N 74 | 48.206 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 20 | 20 | ROS | 43001 | 2127 | BE | 26 | 30.064 N 74 | 30.906 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 20 | 20 | ROS | 43001 | 2257 | BO | 26 | 30.715 N 74 | 31.106 | W | GPS | 4496 | 10 | 4580 | 4558.1 | 24 | 1,2 | |
| OC365/9 | AB01 | 20 | 20 | ROS | 43001 | 32 | EN | 26 | 31.844 N 74 | 30.938 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 21 | 21 | ROS | 50101 | 306 | BE | 26 | 30.117 N 74 | 14.148 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 21 | 21 | ROS | 50101 | 433 | BO | 26 | 31.112 N 74 | 14.555 | W | GPS | 4536 | 6.1 | 4836 | 4608.8 | 24 | 1,2 | |
| OC365/9 | AB01 | 21 | 21 | ROS | 50101 | 551 | EN | 26 | 31.826 N 74 | 13.851 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 22 | 22 | ROS | 50101 | 822 | BE | 26 | 30.031 N 73 | 57.988 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 22 | 22 | ROS | 50101 | 958 | BO | 26 | 31.081 N 73 | 57.766 | W | GPS | 4642 | 6.6 | 4827 | 4716.2 | 24 | 1,2 | |
| OC365/9 | AB01 | 22 | 22 | ROS | 50101 | 1134 | EN | 26 | 32.157 N 73 | 57.404 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 23 | 23 | ROS | 50101 | 1411 | BE | 26 | 30.025 N 73 | 34.977 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 23 | 23 | ROS | 50101 | 1543 | BO | 26 | 31.138 N 73 | 35.256 | W | GPS | 4920 | 6.8 | 5035 | 4937.5 | 24 | 1,2 | |
| OC365/9 | AB01 | 23 | 23 | ROS | 50101 | 1703 | EN | 26 | 31.951 N 73 | 35.750 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 24 | 24 | ROS | 50101 | 1920 | BE | 26 | 30.002 N 73 | 13.100 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 24 | 24 | ROS | 50101 | 2056 | BO | 26 | 31.030 N 73 | 14.011 | W | GPS | 5058 | 8.8 | 5202 | 5133.9 | 24 | 1,2 | |
| OC365/9 | AB01 | 24 | 24 | ROS | 50101 | 2233 | EN | 26 | 31.860 N 73 | 15.267 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 25 | 25 | ROS | 50201 | 1540 | BE | 26 | 33.517 N 72 | 51.104 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 25 | 25 | ROS | 50201 | 1723 | BO | 26 | 34.783 N 72 | 51.486 | W | GPS | 5107 | 8.4 | 5298 | 5164.0 | 24 | 1,2 | |
| OC365/9 | AB01 | 25 | 25 | ROS | 50201 | 1908 | EN | 26 | 35.925 N 72 | 51.873 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 26 | 26 | ROS | 50201 | 2222 | BE | 26 | 30.036 N 72 | 27.946 | W | GPS | | | | | | | BOTTLES 3 AND 23 MISFIRED |
| OC365/9 | AB01 | 26 | 26 | ROS | 50201 | 2 | BO | 26 | 30.904 N 72 | 27.742 | W | GPS | 5138 | 9.6 | 5262 | 5263.3 | 24 | 1,2 | BOTTLE 14 LANYARD KEPT FROM SEALING |
| OC365/9 | AB01 | 26 | 26 | ROS | 50201 | 147 | EN | 26 | 32.305 N 72 | 28.040 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 27 | 27 | ROS | 50301 | 422 | BE | 26 | 29.990 N 72 | 6.111 | W | GPS | | | | | | | |
| OC365/9 | AB01 | 27 | 27 | ROS | 50301 | 613 | BO | 26 | 31.859 N 72 | 5.894 | W | GPS | 5278 | 6.8 | 5606 | 5366.0 | 24 | 1,2 | |

| | | | | | | | | | | | | | | | |
|---------|------|----|----|-----|-------|------|-------|-------------|--------|-------|------|------|------|--------|--------|
| OC365/9 | AB01 | 27 | 27 | ROS | 50301 | 822 | EN 26 | 34.004 N 72 | 5.727 | W GPS | | | | | |
| OC365/9 | AB01 | 28 | 28 | ROS | 50301 | 1116 | BE 26 | 30.118 N 71 | 43.939 | W GPS | | | | | |
| OC365/9 | AB01 | 28 | 28 | ROS | 50301 | 1259 | BO 26 | 31.742 N 71 | 43.718 | W GPS | 5373 | 9.1 | 5622 | 5469.0 | 24 1,2 |
| OC365/9 | AB01 | 28 | 28 | ROS | 50301 | 1450 | EN 26 | 33.419 N 71 | 43.224 | W GPS | | | | | |
| OC365/9 | AB01 | 29 | 29 | ROS | 50301 | 1800 | BE 26 | 30.061 N 71 | 21.089 | W GPS | | | | | |
| OC365/9 | AB01 | 29 | 29 | ROS | 50301 | 1957 | BO 26 | 32.024 N 71 | 20.237 | W GPS | 5465 | 9.1 | 5853 | 5586.8 | 24 1,2 |
| OC365/9 | AB01 | 29 | 29 | ROS | 50301 | 2147 | EN 26 | 33.899 N 71 | 19.098 | W GPS | | | | | |
| OC365/9 | AB01 | 30 | 30 | ROS | 50401 | 30 | BE 26 | 30.107 N 71 | 0.076 | W GPS | | | | | |
| OC365/9 | AB01 | 30 | 30 | ROS | 50401 | 210 | BO 26 | 32.248 N 71 | 0.536 | W GPS | 5470 | 8.09 | 6020 | 5585.5 | 24 1,2 |
| OC365/9 | AB01 | 30 | 30 | ROS | 50401 | 414 | EN 26 | 34.255 N 71 | 0.596 | W GPS | | | | | |
| OC365/9 | AB01 | 31 | 31 | ROS | 50401 | 926 | BE 26 | 30.263 N 70 | 41.009 | W GPS | | | | | |
| OC365/9 | AB01 | 31 | 31 | ROS | 50401 | 1118 | BO 26 | 32.379 N 70 | 40.887 | W GPS | 5470 | 7.3 | 6088 | 5591.3 | 24 1,2 |
| OC365/9 | AB01 | 31 | 31 | ROS | 50401 | 1311 | EN 26 | 34.191 N 70 | 40.057 | W GPS | | | | | |
| OC365/9 | AB01 | 32 | 32 | ROS | 50401 | 1604 | BE 26 | 29.993 N 70 | 14.021 | W GPS | | | | | |
| OC365/9 | AB01 | 32 | 32 | ROS | 50401 | 1803 | BO 26 | 31.264 N 70 | 11.994 | W GPS | 5471 | 8.8 | 6194 | 5591.0 | 24 1,2 |
| OC365/9 | AB01 | 32 | 32 | ROS | 50401 | 2014 | EN 26 | 31.231 N 70 | 9.419 | W GPS | | | | | |
| OC365/9 | AB01 | 33 | 33 | ROS | 50401 | 2236 | BE 26 | 30.002 N 69 | 50.065 | W GPS | | | | | |
| OC365/9 | AB01 | 33 | 33 | ROS | 50401 | 27 | BO 26 | 31.194 N 69 | 48.341 | W GPS | 5483 | 9.1 | 5997 | 5594.2 | 24 1,2 |
| OC365/9 | AB01 | 33 | 33 | ROS | 50401 | 219 | EN 26 | 32.309 N 69 | 46.618 | W GPS | | | | | |

Appendix B – WOCE Bottle Summary File

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| EXPOCODE | SECT_ID | STNNBR | CASTNO | SAMPNO | BTLNBR | BTLNBR | DATE | TIME | LATITUDE | LONGITUDE | DEPTH | CTDPRS | CTDTMP | CTDSAL | CTDSAL | SALNTY | SALNTY | CTDOXY | CTDOXY | OXYGEN | OXYGEN |
|----------|---------|--------|--------|--------|--------|--------|----------|------|----------|-----------|-------|--------|---------|---------|--------|---------|--------|---------|--------|---------|--------|
| | | | | | | FLAG | | | | | | DBARs | ITS-90 | PSS-78 | FLAG | PSS-78 | FLAG | UMOL/KG | FLAG | UMOL/KG | FLAG |
| 31WBTSOC | AB01 | 1 | 1 | 1 | 24 | 2 | 20010426 | 2022 | 27.0158 | -79.9213 | 159 | 139.6 | 10.4301 | 35.3285 | 2 | 35.3199 | 2 | 126.3 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 1 | 1 | 2 | 1 | 2 | 20010426 | 2022 | 27.0158 | -79.9213 | 159 | 127.5 | 11.8637 | 35.5302 | 2 | 35.5321 | 2 | 132.9 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 1 | 1 | 3 | 3 | 2 | 20010426 | 2022 | 27.0158 | -79.9213 | 159 | 112 | 13.9258 | 35.8105 | 2 | 35.8263 | 3 | 135.3 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 1 | 1 | 4 | 4 | 2 | 20010426 | 2022 | 27.0158 | -79.9213 | 159 | 77.3 | 18.0814 | 36.2409 | 2 | 36.249 | 2 | 170.1 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 1 | 1 | 5 | 6 | 2 | 20010426 | 2022 | 27.0158 | -79.9213 | 159 | 49 | 23.8687 | 36.439 | 2 | 36.4411 | 2 | 224.2 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 1 | 1 | 6 | 13 | 2 | 20010426 | 2022 | 27.0158 | -79.9213 | 159 | 24.5 | 26.0002 | 36.2327 | 2 | 36.2403 | 2 | 214.4 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 2 | 1 | 1 | 24 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 749 | 9.474 | 35.2761 | 2 | 35.2748 | 2 | 147.9 | 2 | 152 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 2 | 1 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 649.7 | 11.4486 | 35.5002 | 2 | 35.4984 | 2 | 154 | 2 | 154.4 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 3 | 2 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 547.8 | 13.8439 | 35.8431 | 2 | -999 | 9 | 168.6 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 2 | 1 | 4 | 3 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 449.9 | 15.9879 | 36.1857 | 2 | 36.1833 | 2 | 182.4 | 2 | 175.6 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 5 | 4 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 374.8 | 17.3085 | 36.4004 | 2 | 36.4019 | 2 | 192.8 | 2 | 188.1 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 6 | 5 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 300.7 | 18.2799 | 36.5474 | 2 | 36.5477 | 2 | 196.8 | 2 | 193.6 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 7 | 6 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 225.1 | 20.0271 | 36.7426 | 2 | 36.7448 | 2 | 193.7 | 2 | 190 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 8 | 12 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 173.6 | 21.5201 | 36.8389 | 2 | -999 | 9 | 203.7 | 2 | 194.3 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 9 | 13 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 124.6 | 22.959 | 36.8877 | 2 | 36.8404 | 4 | 203.4 | 2 | 196.1 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 10 | 14 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 74 | 24.0485 | 36.5556 | 2 | 36.5756 | 4 | 205.6 | 2 | 203.1 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 11 | 15 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 49 | 25.1356 | 36.3057 | 2 | 36.3201 | 3 | 212.7 | 2 | 205 | 2 |
| 31WBTSOC | AB01 | 2 | 1 | 12 | 16 | 2 | 20010427 | 1127 | 26.4348 | -78.6667 | 763 | 3.7 | 25.1114 | 36.3078 | 2 | 36.3086 | 2 | 209.5 | 2 | 205.6 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 1 | 24 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 676.5 | 9.0961 | 35.2636 | 2 | 35.2677 | 2 | 157.8 | 2 | 156.9 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 2 | 1 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 548.3 | 13.4185 | 35.7809 | 2 | 35.7761 | 2 | 166.9 | 2 | 156 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 3 | 2 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 451.1 | 15.7061 | 36.1389 | 2 | 36.1384 | 2 | 182.2 | 2 | 170.9 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 4 | 3 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 351.9 | 17.616 | 36.4524 | 2 | 36.4532 | 2 | 195 | 2 | 185.4 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 5 | 4 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 251 | 19.7497 | 36.7115 | 2 | 36.7108 | 2 | 194.6 | 2 | 186.1 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 6 | 5 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 174.3 | 21.791 | 36.855 | 2 | 36.8545 | 2 | 202.5 | 2 | 194.6 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 7 | 6 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 123.9 | 23.3987 | 36.9121 | 2 | 36.9138 | 2 | 203.9 | 2 | 197.5 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 8 | 12 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 48.9 | 25.2466 | 36.2959 | 2 | 36.2985 | 2 | 210.1 | 2 | 203.6 | 2 |
| 31WBTSOC | AB01 | 3 | 1 | 9 | 13 | 2 | 20010427 | 1302 | 26.331 | -78.7138 | 691 | 2.8 | 25.7322 | 36.2192 | 2 | 36.2201 | 2 | 207 | 2 | 203.5 | 3 |
| 31WBTSOC | AB01 | 4 | 1 | 1 | 24 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 509.9 | 14.7271 | 35.9843 | 2 | 35.9869 | 2 | 165.6 | 2 | 164.3 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 2 | 1 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 434.3 | 16.2 | 36.2214 | 2 | 36.2165 | 2 | 182.8 | 2 | 174.2 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 3 | 2 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 359.2 | 17.4736 | 36.4317 | 2 | 36.43 | 2 | 193.4 | 2 | 183.9 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 4 | 3 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 319.2 | 18.0227 | 36.5174 | 2 | 36.5144 | 2 | 195.8 | 2 | 186.9 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 5 | 4 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 279.8 | 18.8647 | 36.6157 | 2 | 36.6159 | 2 | 197 | 2 | 188.6 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 6 | 5 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 249.9 | 19.9635 | 36.7233 | 2 | 36.7247 | 2 | 195.4 | 2 | 186.2 | 2 |

| | | | | | | | | | | | | | | | | | | | | | |
|----------|------|---|---|----|----|---|----------|------|---------|----------|------|-------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 4 | 1 | 7 | 6 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 180 | 22.1968 | 36.8549 | 2 | 36.8521 | 2 | 210.5 | 2 | 200.3 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 8 | 12 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 139.3 | 23.1781 | 36.9066 | 2 | 36.885 | 4 | 203.9 | 2 | 196.9 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 9 | 13 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 48.9 | 25.4683 | 36.3309 | 2 | 36.3543 | 4 | 206.4 | 2 | 200.3 | 2 |
| 31WBTSOC | AB01 | 4 | 1 | 10 | 14 | 2 | 20010427 | 1418 | 26.2448 | -78.7697 | 526 | 3.1 | 25.8169 | 36.2134 | 2 | 36.2158 | 2 | 207.4 | 2 | 203.5 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 1 | 24 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 445.1 | 16.6594 | 36.2881 | 2 | 36.2842 | 2 | 169.4 | 2 | 168.8 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 2 | 1 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 415 | 17.2887 | 36.4002 | 2 | 36.3963 | 2 | 187.9 | 2 | 183.3 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 3 | 2 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 348.9 | 18.0517 | 36.5241 | 2 | 36.5201 | 2 | 195.3 | 2 | 187.5 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 4 | 3 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 299 | 18.5155 | 36.5826 | 2 | 36.5796 | 2 | 195.7 | 2 | 187.4 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 5 | 4 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 249.1 | 19.2552 | 36.6595 | 2 | 36.6587 | 2 | 195.1 | 2 | 187.2 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 6 | 5 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 198.7 | 20.8387 | 36.7873 | 2 | 36.7858 | 2 | 199.8 | 2 | 190.1 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 7 | 6 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 149.9 | 23.3493 | 36.9126 | 2 | 36.914 | 2 | 207.4 | 2 | 196.3 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 8 | 12 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 101.1 | 24.6527 | 36.4088 | 2 | 36.4369 | 4 | 203.1 | 2 | 196.1 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 9 | 13 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 49.6 | 25.7753 | 36.2218 | 2 | 36.2363 | 3 | 209.5 | 2 | 202.3 | 2 |
| 31WBTSOC | AB01 | 5 | 1 | 10 | 14 | 2 | 20010427 | 1533 | 26.1638 | -78.804 | 462 | 2.2 | 25.8041 | 36.2205 | 2 | 36.2207 | 2 | 207.1 | 2 | 202.7 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 1 | 24 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 282.8 | 18.6941 | 36.59 | 2 | 36.5889 | 2 | 176.3 | 2 | 177 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 2 | 1 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 247.8 | 19.275 | 36.6541 | 2 | 36.6462 | 2 | 185 | 2 | 179.8 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 3 | 2 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 248.4 | 19.2725 | 36.6539 | 2 | 36.6488 | 2 | 185.4 | 2 | 179.6 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 4 | 3 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 198.8 | 19.9882 | 36.7258 | 2 | 36.7241 | 2 | 194.2 | 2 | 186.8 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 5 | 4 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 150.9 | 22.1631 | 36.8333 | 2 | 36.8289 | 2 | 196.1 | 2 | 186.1 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 6 | 5 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 99.3 | 24.2938 | 36.4626 | 2 | 36.4975 | 4 | 215.9 | 2 | 205.7 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 7 | 6 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 48.9 | 25.1788 | 36.3105 | 2 | 36.3143 | 2 | 213 | 2 | 205.4 | 2 |
| 31WBTSOC | AB01 | 6 | 1 | 8 | 12 | 2 | 20010427 | 1652 | 26.0653 | -78.8552 | 301 | 1.7 | 25.6711 | 36.188 | 2 | 36.1894 | 2 | 208.6 | 2 | 204.5 | 3 |
| 31WBTSOC | AB01 | 7 | 1 | 1 | 24 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 968.6 | 6.112 | 35.0837 | 2 | 35.0834 | 2 | 201.9 | 2 | 200.5 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 2 | 1 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 798.6 | 8.0739 | 35.1459 | 2 | 35.1395 | 2 | 160.2 | 2 | 158.2 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 3 | 2 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 647.7 | 11.4967 | 35.5075 | 2 | 35.5057 | 2 | 155.9 | 2 | 148.5 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 4 | 3 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 549.5 | 13.6815 | 35.8193 | 2 | 35.8138 | 2 | 167.1 | 2 | 159.3 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 5 | 4 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 448.8 | 16.9884 | 36.3438 | 2 | 36.3357 | 2 | 193.3 | 2 | 181.2 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 6 | 5 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 346.5 | 18.7792 | 36.6037 | 2 | 36.604 | 2 | 199.9 | 2 | 190.7 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 7 | 6 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 306.4 | 19.4811 | 36.6678 | 2 | 36.6694 | 2 | 197 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 7 | 1 | 8 | 7 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 248.5 | 20.5316 | 36.7704 | 2 | 36.7707 | 2 | 199.7 | 2 | 181 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 9 | 8 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 200.1 | 21.8498 | 36.8715 | 2 | 36.8735 | 2 | 198.7 | 2 | 191.7 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 10 | 9 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 148.9 | 22.7944 | 36.8468 | 2 | 36.8491 | 2 | 215.3 | 2 | 207 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 11 | 10 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 99.3 | 24.0719 | 36.6284 | 2 | 36.6361 | 2 | 215.8 | 2 | 207.7 | 2 |
| 31WBTSOC | AB01 | 7 | 1 | 12 | 11 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 47.9 | 24.2036 | 36.477 | 2 | 36.4781 | 2 | 211.6 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 7 | 1 | 13 | 12 | 2 | 20010428 | 618 | 26.4988 | -76.9127 | 980 | 1.9 | 24.1599 | 36.4651 | 2 | -999 | 9 | 208.6 | 2 | 206.2 | 3 |
| 31WBTSOC | AB01 | 8 | 1 | 1 | 24 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 996.1 | 5.794 | 35.0748 | 2 | 35.0755 | 2 | 213.9 | 2 | 209.4 | 2 |

| | | | | | | | | | | | | | | | | | | | | | |
|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 8 | 1 | 2 | 1 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 900 | 7.1283 | 35.0978 | 2 | 35.0964 | 2 | 175.4 | 2 | 171.2 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 3 | 2 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 750.7 | 10.1411 | 35.3325 | 2 | 35.3312 | 2 | 151.9 | 2 | 145.4 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 4 | 3 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 625.9 | 12.872 | 35.697 | 2 | 35.6951 | 2 | 160.3 | 2 | 151.8 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 5 | 4 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 500.5 | 16.147 | 36.2054 | 2 | 36.2021 | 2 | 189.9 | 2 | 178.1 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 6 | 5 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 399.4 | 17.9522 | 36.5075 | 2 | 36.508 | 2 | 197 | 2 | 186.7 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 7 | 6 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 309.5 | 19.085 | 36.6422 | 2 | 36.6426 | 2 | 196 | 2 | 188 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 8 | 7 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 224.3 | 20.6644 | 36.7708 | 2 | 36.7737 | 2 | 212.5 | 2 | 204 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 9 | 8 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 160.4 | 21.8493 | 36.823 | 2 | 36.8164 | 2 | 216.2 | 2 | 209 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 10 | 9 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 119.4 | 23.2314 | 36.7842 | 2 | 36.7884 | 2 | 215.9 | 2 | 208.3 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 11 | 10 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 60.8 | 24.2821 | 36.5751 | 2 | 36.5905 | 3 | 215.5 | 2 | 208.4 | 2 |
| 31WBTSOC | AB01 | 8 | 1 | 12 | 11 | 2 | 20010428 | 1026 | 26.5112 | -76.8418 | 1007 | 2.6 | 24.6943 | 36.5601 | 2 | 36.56 | 2 | 208.7 | 2 | 206.5 | 3 |
| 31WBTSOC | AB01 | 9 | 1 | 1 | 24 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 3902.1 | 2.3649 | 34.9006 | 2 | 34.9007 | 2 | 267 | 2 | 266.6 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 2 | 1 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 3599.4 | 2.5038 | 34.9113 | 2 | -999 | 9 | 266 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 9 | 1 | 3 | 2 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 3297.1 | 2.677 | 34.9226 | 2 | 34.9226 | 2 | 263.2 | 2 | 267 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 4 | 3 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 3000.9 | 2.8797 | 34.9342 | 2 | 34.9342 | 2 | 259.8 | 2 | 265 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 5 | 4 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 2698.2 | 3.115 | 34.9489 | 2 | 34.9487 | 2 | 256.4 | 2 | 263.2 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 6 | 5 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 2398.5 | 3.3671 | 34.9621 | 2 | 34.9619 | 2 | 254.5 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 7 | 6 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 2100.8 | 3.6198 | 34.9708 | 2 | 34.9702 | 2 | 253.7 | 2 | 261.9 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 8 | 7 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 1802.2 | 3.7444 | 34.9675 | 2 | 34.9682 | 2 | 253.5 | 2 | 262.4 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 9 | 8 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 1486.6 | 4.0591 | 34.9861 | 2 | 34.9849 | 2 | 248.1 | 2 | 257.8 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 10 | 9 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 1200.7 | 4.9812 | 35.0543 | 2 | 35.0546 | 2 | 227.1 | 2 | 235.2 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 11 | 10 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 1005.4 | 6.2774 | 35.079 | 2 | 35.078 | 2 | 182.6 | 2 | 188.5 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 12 | 11 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 854.2 | 7.9064 | 35.1142 | 2 | 35.1137 | 2 | 148.1 | 2 | 151.7 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 13 | 12 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 701.8 | 11.1485 | 35.464 | 2 | 35.4704 | 2 | 152.1 | 2 | 151.5 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 14 | 13 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 546.3 | 15.1375 | 36.0468 | 2 | 36.0474 | 2 | 171.6 | 2 | 164.7 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 15 | 14 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 450.7 | 17.3042 | 36.3991 | 2 | 36.3987 | 2 | 192.7 | 2 | 184.6 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 16 | 15 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 349.7 | 18.458 | 36.5724 | 2 | 36.5689 | 2 | 196.1 | 2 | 189.3 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 17 | 16 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 249.8 | 19.3016 | 36.6442 | 2 | 36.6482 | 2 | 207.1 | 2 | 202.2 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 18 | 17 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 150.3 | 21.3603 | 36.7825 | 2 | 36.7844 | 2 | 219.3 | 2 | 213 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 19 | 18 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 99.6 | 22.9455 | 36.875 | 2 | 36.87 | 2 | 216.6 | 2 | 210.8 | 3 |
| 31WBTSOC | AB01 | 9 | 1 | 20 | 19 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 49.3 | 24.5513 | 36.6409 | 2 | 36.642 | 2 | 212.8 | 2 | 207.7 | 2 |
| 31WBTSOC | AB01 | 9 | 1 | 21 | 20 | 2 | 20010428 | 1208 | 26.5 | -76.7345 | 3861 | 3 | 24.6451 | 36.6022 | 2 | 36.602 | 2 | 206.9 | 2 | 207 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 1 | 24 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 4790.4 | 2.2035 | 34.8771 | 2 | 34.8761 | 2 | 255.5 | 2 | 256.8 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 2 | 1 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 4500.2 | 2.2771 | 34.8896 | 2 | 34.8923 | 2 | 260.2 | 2 | 263 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 3 | 2 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 4246.9 | 2.2874 | 34.8929 | 2 | 34.8881 | 3 | 259.8 | 2 | 264.7 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 4 | 3 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 3869.6 | 2.3698 | 34.9025 | 2 | 34.9019 | 2 | 260.8 | 2 | 266.9 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 10 | 1 | 5 | 4 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 3496.6 | 2.51 | 34.9132 | 2 | 34.9129 | 2 | 260 | 2 | 267.5 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 6 | 5 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 3120.4 | 2.741 | 34.9278 | 2 | 34.9269 | 2 | 257.6 | 2 | 265.9 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 7 | 6 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 2747 | 3.0453 | 34.9444 | 2 | 34.9434 | 2 | 254.1 | 2 | 263.4 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 8 | 7 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 2446.8 | 3.2561 | 34.9532 | 2 | 34.9521 | 2 | 253.2 | 2 | 263.1 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 9 | 8 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 2147 | 3.4484 | 34.9552 | 2 | 34.9537 | 2 | 254.6 | 2 | 264.3 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 10 | 9 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 1849.8 | 3.6974 | 34.961 | 2 | 34.9596 | 2 | 253.8 | 2 | 264 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 11 | 10 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 1550.9 | 4.0299 | 34.9784 | 2 | 34.9773 | 2 | 248.6 | 2 | 258.9 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 12 | 11 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 1247.4 | 4.9799 | 35.0506 | 2 | 35.0501 | 2 | 227 | 2 | 226.7 | 4 |
| 31WBTSOC | AB01 | 10 | 1 | 13 | 12 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 1046.4 | 6.2539 | 35.0883 | 2 | 35.0873 | 2 | 188.8 | 2 | 194.3 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 14 | 13 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 896.7 | 7.7348 | 35.1052 | 2 | 35.1052 | 2 | 151.1 | 2 | 154.8 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 15 | 14 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 749.8 | 10.3582 | 35.3678 | 2 | 35.3678 | 2 | 148.8 | 2 | 148.2 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 16 | 15 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 600.7 | 14.0575 | 35.8719 | 2 | 35.877 | 2 | 168.7 | 2 | 163.9 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 17 | 16 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 485 | 16.4019 | 36.2505 | 2 | 36.2601 | 2 | 183.8 | 2 | 179.5 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 18 | 17 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 355.7 | 18.1624 | 36.5382 | 2 | 36.5427 | 2 | 193.7 | 2 | 189.7 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 19 | 18 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 276.9 | 18.7808 | 36.6039 | 2 | 36.6042 | 2 | 205 | 2 | 201.1 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 20 | 19 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 200.7 | 19.7284 | 36.6794 | 2 | 36.6789 | 2 | 203.7 | 2 | 200.1 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 21 | 20 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 151.4 | 20.6365 | 36.7587 | 2 | 36.758 | 2 | 209.9 | 2 | 205.9 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 22 | 21 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 100.6 | 22.3793 | 36.9216 | 2 | 36.921 | 2 | 198.6 | 2 | 194.8 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 23 | 22 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 49.2 | 23.6756 | 36.866 | 2 | 36.8654 | 2 | 209.1 | 2 | 205.6 | 2 |
| 31WBTSOC | AB01 | 10 | 1 | 24 | 23 | 2 | 20010428 | 1548 | 26.502 | -76.6135 | 4726 | 3.6 | 24.239 | 36.6921 | 2 | 36.6954 | 2 | 211.6 | 2 | 208.7 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 1 | 24 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 4923.4 | 2.3021 | 34.8863 | 2 | 34.885 | 2 | 260.5 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 2 | 1 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 4549.1 | 2.291 | 34.8895 | 2 | -999 | 9 | 260.1 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 11 | 1 | 3 | 2 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 4149.3 | 2.3038 | 34.8945 | 2 | -999 | 9 | 259.7 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 11 | 1 | 4 | 3 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 3800.5 | 2.3674 | 34.901 | 2 | 34.9013 | 2 | 259 | 2 | 266.9 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 5 | 4 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 3449.1 | 2.4596 | 34.9088 | 2 | 34.3192 | 4 | 258.3 | 2 | 268.2 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 6 | 5 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 3149.5 | 2.6766 | 34.923 | 2 | 34.9226 | 2 | 257.2 | 2 | 267.1 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 7 | 6 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 2800.9 | 2.9214 | 34.9386 | 2 | 34.9383 | 2 | 253.5 | 2 | 264.3 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 8 | 7 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 2500.6 | 3.168 | 34.9478 | 2 | 34.9472 | 2 | 252.9 | 2 | 263.8 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 9 | 8 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 2200.1 | 3.3618 | 34.9557 | 2 | 34.956 | 2 | 251.9 | 2 | 263.3 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 10 | 9 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 1901.5 | 3.6634 | 34.965 | 2 | 34.9645 | 2 | 251.7 | 2 | 263.8 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 11 | 10 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 1602.9 | 3.9995 | 34.9802 | 2 | 34.9804 | 2 | 248.2 | 2 | 259.4 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 12 | 11 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 1374.8 | 4.4979 | 35.0145 | 2 | 35.0154 | 2 | 237.3 | 2 | 247.9 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 13 | 12 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 1174.3 | 5.2842 | 35.0609 | 2 | 35.0599 | 2 | 218.7 | 2 | 227.1 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 14 | 13 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 978.9 | 6.8101 | 35.0701 | 2 | 35.1546 | 4 | 166.1 | 2 | 158.5 | 4 |
| 31WBTSOC | AB01 | 11 | 1 | 15 | 14 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 803.7 | 9.6314 | 35.2756 | 2 | 35.278 | 2 | 144.8 | 2 | 146 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 16 | 15 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 652.2 | 13.0774 | 35.7274 | 2 | 35.7399 | 3 | 161.8 | 2 | 160 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 11 | 1 | 17 | 16 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 503.2 | 16.2138 | 36.2103 | 2 | 36.2128 | 2 | 183.8 | 2 | 177.1 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 18 | 17 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 402.1 | 17.7832 | 36.4788 | 2 | 36.4819 | 2 | 195.8 | 2 | 189.7 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 19 | 18 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 301.8 | 18.634 | 36.5854 | 2 | 36.5861 | 2 | 205.5 | 2 | 200.7 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 20 | 19 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 224.4 | 19.1891 | 36.6329 | 2 | 36.6343 | 2 | 203.7 | 2 | 199.9 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 21 | 20 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 160.3 | 20.7266 | 36.7745 | 2 | 36.7735 | 2 | 219 | 2 | 213.7 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 22 | 21 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 110.4 | 21.92 | 36.8723 | 2 | 36.8785 | 2 | 201.4 | 2 | 196.7 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 23 | 22 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 54.4 | 23.4655 | 36.8177 | 2 | 36.8219 | 2 | 217.4 | 2 | 212.8 | 2 |
| 31WBTSOC | AB01 | 11 | 1 | 24 | 23 | 2 | 20010428 | 2224 | 26.5002 | -76.48 | 4855 | 3.5 | 24.4553 | 36.6369 | 2 | 36.6379 | 2 | 210.5 | 2 | 208.2 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 1 | 24 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 4907.8 | 2.3164 | 34.8878 | 2 | 34.8883 | 2 | 262.2 | 2 | 262.1 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 2 | 1 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 4794.6 | 2.333 | 34.8904 | 2 | 34.8909 | 2 | 262.4 | 2 | 263.7 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 3 | 2 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 4668.5 | 2.3407 | 34.8925 | 2 | -999 | 9 | 263 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 12 | 1 | 4 | 3 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 4498 | 2.3476 | 34.8944 | 2 | 34.8944 | 2 | 261.8 | 2 | 264.8 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 5 | 4 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 4046.9 | 2.3354 | 34.8974 | 2 | 34.8974 | 2 | 259.6 | 2 | 265.7 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 6 | 5 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 3600.1 | 2.4339 | 34.9062 | 2 | 34.9066 | 2 | 259.4 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 7 | 6 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 3199.3 | 2.6382 | 34.9198 | 2 | 34.9198 | 2 | 257.8 | 2 | 267.3 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 8 | 7 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 2797.3 | 2.8595 | 34.933 | 2 | 34.9332 | 2 | 255 | 2 | 265.5 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 9 | 8 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 2449.7 | 3.1308 | 34.9495 | 2 | 34.9497 | 2 | 252.2 | 2 | 262.9 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 10 | 9 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 2099.1 | 3.404 | 34.9543 | 2 | 34.955 | 2 | 253 | 2 | 263.9 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 11 | 10 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 1799.8 | 3.6443 | 34.9601 | 2 | 34.9603 | 2 | 252.4 | 2 | 264.2 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 12 | 11 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 1500 | 4.1771 | 34.9919 | 2 | 34.9924 | 2 | 244.9 | 2 | 255.6 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 13 | 12 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 1198.3 | 5.1086 | 35.0497 | 2 | 35.0497 | 2 | 222.3 | 2 | 230.7 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 14 | 13 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 950.1 | 7.3677 | 35.1007 | 2 | 35.1005 | 2 | 161.7 | 2 | 165.6 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 15 | 14 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 825.3 | 9.4671 | 35.2564 | 2 | 35.2571 | 2 | 144.1 | 2 | 145.4 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 16 | 15 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 678.4 | 12.4547 | 35.6367 | 2 | 35.6562 | 3 | 159.8 | 2 | 148.7 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 17 | 16 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 551.9 | 15.3304 | 36.0708 | 2 | 36.0777 | 2 | 177.2 | 2 | 172.9 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 18 | 17 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 460.7 | 17.0087 | 36.345 | 2 | 36.3428 | 2 | 187.1 | 2 | 182.3 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 19 | 18 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 371 | 17.9952 | 36.5073 | 2 | 36.5096 | 2 | 194.1 | 2 | 191 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 20 | 19 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 230 | 19.0776 | 36.6232 | 2 | 36.6234 | 2 | 201.5 | 2 | 199 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 21 | 20 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 176.4 | 20.0402 | 36.7129 | 2 | 36.7152 | 2 | 201.7 | 2 | 199.4 | 3 |
| 31WBTSOC | AB01 | 12 | 1 | 22 | 21 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 120.1 | 21.8598 | 36.8691 | 2 | 36.8668 | 2 | 199.2 | 2 | 195.8 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 23 | 22 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 60.3 | 23.1095 | 36.8272 | 2 | 36.8271 | 2 | 215.4 | 2 | 212.8 | 2 |
| 31WBTSOC | AB01 | 12 | 1 | 24 | 23 | 2 | 20010429 | 252 | 26.504 | -76.3028 | 4840 | 2.8 | 24.2519 | 36.714 | 2 | 36.7156 | 2 | 210.5 | 2 | 209.1 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 1 | 24 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 4888.3 | 2.3073 | 34.8872 | 2 | 34.8872 | 2 | 262 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 2 | 1 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 4848.5 | 2.3022 | 34.8871 | 2 | 34.8872 | 2 | 261.3 | 2 | 261.9 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 3 | 2 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 4600.8 | 2.3207 | 34.8914 | 2 | -999 | 9 | 261.8 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 13 | 1 | 4 | 3 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 4298.5 | 2.314 | 34.8937 | 2 | 34.8936 | 2 | 259.8 | 2 | 265.1 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 13 | 1 | 5 | 4 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 3898.7 | 2.3687 | 34.9003 | 2 | -999 | 9 | 260.5 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 13 | 1 | 6 | 5 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 3634 | 2.461 | 34.9076 | 2 | 34.9072 | 2 | 259.8 | 2 | 267.7 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 7 | 6 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 3249.2 | 2.6196 | 34.9182 | 2 | 34.9178 | 2 | 258.1 | 2 | 267.6 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 8 | 7 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 2898 | 2.7916 | 34.9293 | 2 | 34.9295 | 2 | 255.7 | 2 | 266.3 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 9 | 8 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 2549.8 | 3.13 | 34.9465 | 2 | 34.9468 | 2 | 253.4 | 2 | 263.8 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 10 | 9 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 2199.5 | 3.3726 | 34.953 | 2 | 34.9535 | 2 | 253.4 | 2 | 264.1 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 11 | 10 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 1902.5 | 3.571 | 34.9527 | 2 | 34.9525 | 2 | 254 | 2 | 265.2 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 12 | 11 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 1599.6 | 3.7318 | 34.9593 | 2 | 34.9613 | 2 | 251.5 | 2 | 263.6 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 13 | 12 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 1377.7 | 4.2196 | 34.9971 | 2 | 34.9987 | 2 | 243.2 | 2 | 253.8 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 14 | 13 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 1150.8 | 5.3472 | 35.0673 | 2 | 35.0682 | 2 | 216.7 | 2 | 225 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 15 | 14 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 928 | 7.7772 | 35.113 | 2 | 35.1117 | 2 | 151 | 2 | 155.1 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 16 | 15 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 724.6 | 11.4175 | 35.4896 | 2 | 35.4905 | 2 | 149.1 | 2 | 152 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 17 | 16 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 560.1 | 15.318 | 36.0628 | 2 | 36.0628 | 2 | 177.6 | 2 | 171.6 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 18 | 17 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 450.4 | 17.0494 | 36.3607 | 2 | 36.3615 | 2 | 184.4 | 2 | 180.3 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 19 | 18 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 349 | 18.0915 | 36.5303 | 2 | 36.5298 | 2 | 193.1 | 2 | 188.7 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 20 | 19 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 219.3 | 19.7243 | 36.7212 | 2 | 36.7212 | 2 | 186.3 | 2 | 182.8 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 21 | 20 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 160 | 21.0358 | 36.7754 | 2 | 36.7799 | 2 | 205.2 | 2 | 200.4 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 22 | 21 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 109.3 | 22.5834 | 36.911 | 2 | 36.9043 | 2 | 195.5 | 2 | 193.6 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 23 | 22 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 48.2 | 24.8366 | 36.6016 | 2 | 36.6498 | 4 | 210.4 | 2 | 206 | 2 |
| 31WBTSOC | AB01 | 13 | 1 | 24 | 23 | 2 | 20010429 | 720 | 26.5022 | -76.1175 | 4821 | 2.4 | 24.8784 | 36.5419 | 2 | 36.5417 | 2 | 206.5 | 2 | 206.3 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 1 | 24 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 4831.8 | 2.2453 | 34.8813 | 2 | 34.8824 | 2 | 257.4 | 2 | 258.6 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 2 | 1 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 4618.2 | 2.2653 | 34.8864 | 2 | 34.8872 | 2 | 258.8 | 2 | 261.5 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 3 | 2 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 4317.7 | 2.2906 | 34.8925 | 2 | 34.8923 | 2 | 260.1 | 2 | 264.7 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 4 | 3 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 3922.1 | 2.3703 | 34.9015 | 2 | 34.9021 | 2 | 260.8 | 2 | 267.3 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 5 | 4 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 3624 | 2.4808 | 34.9091 | 2 | 34.9092 | 2 | 260.1 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 6 | 5 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 3224 | 2.6675 | 34.9215 | 2 | 34.9218 | 2 | 258.3 | 2 | 267.2 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 7 | 6 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 2923.3 | 2.8816 | 34.9351 | 2 | 34.9346 | 2 | 255.1 | 2 | 265.5 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 8 | 7 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 2599.4 | 3.1514 | 34.95 | 2 | 34.9511 | 2 | 252.8 | 2 | 263 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 9 | 8 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 2225.3 | 3.4185 | 34.9534 | 2 | 34.9505 | 2 | 253.7 | 2 | 264.3 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 10 | 9 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 1924.3 | 3.5815 | 34.9555 | 2 | 34.9566 | 2 | 252.8 | 2 | 264.6 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 11 | 10 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 1626.9 | 3.9471 | 34.9745 | 2 | 34.9735 | 2 | 249.3 | 2 | 260.6 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 12 | 11 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 1400.9 | 4.4502 | 35.0156 | 2 | 35.0164 | 2 | 238.6 | 2 | 248.8 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 13 | 12 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 1203.9 | 5.342 | 35.072 | 2 | 35.0743 | 2 | 215.7 | 2 | 223.5 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 14 | 13 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 1051.2 | 6.6153 | 35.088 | 2 | 35.0875 | 2 | 177.3 | 2 | 182.8 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 15 | 14 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 953.3 | 7.5817 | 35.0954 | 2 | 35.0971 | 2 | 152 | 2 | 160.3 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 16 | 15 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 751.3 | 11.4349 | 35.4941 | 2 | 35.5076 | 3 | 148.8 | 2 | 156.5 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 14 | 1 | 17 | 16 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 576.5 | 15.2863 | 36.0651 | 2 | 36.0688 | 2 | 174.9 | 2 | 173 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 18 | 17 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 460.2 | 17.1252 | 36.3734 | 2 | 36.3755 | 2 | 184.1 | 2 | 185.1 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 19 | 18 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 362.4 | 18.337 | 36.5616 | 2 | 36.5653 | 2 | 189.3 | 2 | 190 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 20 | 19 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 228.6 | 19.7483 | 36.7144 | 2 | 36.7152 | 2 | 188.8 | 2 | 189.9 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 21 | 20 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 228.8 | 19.7451 | 36.7143 | 2 | 36.7148 | 2 | 188.9 | 2 | 187.7 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 22 | 21 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 173.1 | 20.6808 | 36.8103 | 2 | 36.8088 | 2 | 186.2 | 2 | 185.9 | 2 |
| 31WBTSOC | AB01 | 14 | 1 | 23 | 22 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 124 | 21.6709 | 36.8753 | 2 | -999 | 9 | 192.2 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 14 | 1 | 24 | 23 | 2 | 20010429 | 1209 | 26.5027 | -75.9167 | 4767 | 3.7 | 24.9026 | 36.4966 | 2 | 36.4965 | 2 | 208.5 | 2 | 215.4 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 1 | 24 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 4769.9 | 2.1939 | 34.8756 | 2 | 34.8765 | 2 | 253.7 | 2 | 260.2 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 2 | 1 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 4394.9 | 2.2707 | 34.8898 | 2 | 34.8897 | 2 | 259.2 | 2 | 265.7 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 3 | 2 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 3996.8 | 2.3 | 34.896 | 2 | 34.8964 | 2 | 259.6 | 2 | 274 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 4 | 3 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 3696 | 2.3604 | 34.9026 | 2 | 34.9027 | 2 | 259.3 | 2 | 280 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 5 | 4 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 3398.7 | 2.4762 | 34.9108 | 2 | 34.9106 | 2 | 258.4 | 2 | 274.3 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 6 | 5 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 3100.6 | 2.6727 | 34.9224 | 2 | 34.9218 | 2 | 257.4 | 2 | 280.1 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 7 | 6 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 2802 | 2.9104 | 34.937 | 2 | 34.9367 | 2 | 254.3 | 2 | 265.6 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 8 | 7 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 2501.4 | 3.2259 | 34.9518 | 2 | 34.9513 | 2 | 252.7 | 2 | 263.9 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 9 | 8 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 2203.1 | 3.4884 | 34.9536 | 2 | 34.9531 | 2 | 254 | 2 | 265 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 10 | 9 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 2003.1 | 3.6841 | 34.9664 | 2 | 34.9664 | 2 | 252.3 | 2 | 262.8 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 11 | 10 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 1804.1 | 3.876 | 34.9726 | 2 | 34.9729 | 2 | 250.9 | 2 | 261.2 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 12 | 11 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 1603.6 | 4.2217 | 35.0002 | 2 | 34.9977 | 2 | 244.6 | 2 | 254.5 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 13 | 12 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 1409.8 | 4.6782 | 35.033 | 2 | 35.0359 | 3 | 234.4 | 2 | 243.5 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 14 | 13 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 1207.7 | 5.6841 | 35.0849 | 2 | 35.0877 | 2 | 205.7 | 2 | 199.6 | 4 |
| 31WBTSOC | AB01 | 15 | 1 | 15 | 14 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 1006.2 | 7.4148 | 35.0912 | 2 | 35.092 | 2 | 155.8 | 2 | 160.2 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 16 | 15 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 805.9 | 10.9455 | 35.4381 | 2 | 35.4439 | 2 | 149.8 | 2 | 150.3 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 17 | 16 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 605.1 | 15.0335 | 36.0303 | 2 | 36.0419 | 3 | 167.3 | 2 | 163.7 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 18 | 17 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 483 | 17.0949 | 36.3663 | 2 | 36.3708 | 2 | 184.6 | 2 | 181 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 19 | 18 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 354.9 | 18.3824 | 36.5569 | 2 | 36.557 | 2 | 195.3 | 2 | 190 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 20 | 19 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 222.6 | 19.781 | 36.6881 | 2 | 36.69 | 2 | 205.7 | 2 | 201.7 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 21 | 20 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 154.3 | 21.1015 | 36.7752 | 2 | 36.7757 | 2 | 215 | 2 | 211.5 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 22 | 21 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 89.7 | 22.5436 | 36.8304 | 2 | 36.8309 | 2 | 219.2 | 2 | 219.1 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 23 | 22 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 45.5 | 23.3788 | 36.8042 | 2 | 36.813 | 2 | 215.7 | 2 | 213.7 | 2 |
| 31WBTSOC | AB01 | 15 | 1 | 24 | 23 | 2 | 20010429 | 1930 | 26.5088 | -75.7067 | 4706 | 3.2 | 24.4865 | 36.6194 | 2 | 36.62 | 2 | 209.6 | 2 | 207.8 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 1 | 24 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 4760.3 | 2.1727 | 34.8733 | 2 | 34.8738 | 2 | 253.7 | 2 | 255.2 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 2 | 1 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 4496.8 | 2.2546 | 34.8871 | 2 | 34.8866 | 2 | 259 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 3 | 2 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 4199.5 | 2.2734 | 34.8918 | 2 | 34.8913 | 2 | 259.5 | 2 | 264.2 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 4 | 3 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 3899.1 | 2.2948 | 34.8962 | 2 | 34.8956 | 2 | 259.4 | 2 | 266 | 2 |

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|----------|------|----|---|----|----|---|----------|-----|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 16 | 1 | 5 | 4 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 3599.9 | 2.3605 | 34.9024 | 2 | 34.9023 | 2 | 259.4 | 2 | 267.4 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 6 | 5 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 3301 | 2.5313 | 34.9151 | 2 | 34.9165 | 2 | 258.7 | 2 | 267.5 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 7 | 6 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 2999.9 | 2.7342 | 34.927 | 2 | 34.9271 | 2 | 256.7 | 2 | 265.9 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 8 | 7 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 2698.5 | 3.0457 | 34.9459 | 2 | 34.9466 | 2 | 253.2 | 2 | 263 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 9 | 8 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 2450.9 | 3.2974 | 34.9605 | 2 | 34.9605 | 2 | 251.3 | 2 | 261.2 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 10 | 9 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 2202 | 3.5293 | 34.968 | 2 | 34.9678 | 2 | 251.4 | 2 | 261.3 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 11 | 10 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 1951.4 | 3.7656 | 34.9711 | 2 | 34.9718 | 2 | 251.5 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 12 | 11 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 1701.1 | 4.1141 | 34.9946 | 2 | 34.995 | 2 | 246.3 | 2 | 256.3 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 13 | 12 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 1452.8 | 4.6765 | 35.0327 | 2 | 35.029 | 2 | 234.6 | 2 | 243.4 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 14 | 13 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 1176.1 | 6.1322 | 35.0857 | 2 | 35.0849 | 2 | 191.8 | 2 | 197.7 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 15 | 14 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 1051.6 | 7.2975 | 35.096 | 2 | 35.0971 | 2 | 161.3 | 2 | 165.4 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 16 | 15 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 851.3 | 10.6271 | 35.3917 | 2 | 35.3907 | 2 | 147.8 | 2 | 147.6 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 17 | 16 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 649.3 | 14.6002 | 35.957 | 2 | 35.9579 | 2 | 166 | 2 | 161.5 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 18 | 17 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 458.1 | 17.808 | 36.4806 | 2 | 36.4817 | 2 | 196 | 2 | 190.1 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 19 | 18 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 344.1 | 18.6503 | 36.587 | 2 | 36.5859 | 2 | 204.7 | 2 | 201.1 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 20 | 19 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 259.5 | 19.213 | 36.6288 | 2 | 36.6283 | 2 | 202.6 | 2 | 199.8 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 21 | 20 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 180.2 | 20.6145 | 36.7685 | 2 | 36.7686 | 2 | 214.4 | 2 | 210.4 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 22 | 21 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 109.8 | 21.5934 | 36.8071 | 2 | 36.8065 | 2 | 213.2 | 2 | 210.7 | 2 |
| 31WBTSOC | AB01 | 16 | 1 | 23 | 22 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 55 | 23.2231 | 36.7926 | 2 | -999 | 9 | 217.6 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 16 | 1 | 24 | 23 | 2 | 20010430 | 113 | 26.5077 | -75.5022 | 4697 | 2.5 | 23.9683 | 36.7248 | 2 | -999 | 9 | 211 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 17 | 1 | 1 | 24 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 4716.4 | 2.2206 | 34.8799 | 2 | 34.8805 | 2 | 257.6 | 2 | 258.3 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 2 | 1 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 4297.6 | 2.2445 | 34.8891 | 2 | 34.8887 | 2 | 259.2 | 2 | 262.9 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 3 | 2 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 3921.4 | 2.2906 | 34.8964 | 2 | 34.896 | 2 | 260.5 | 2 | 266 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 4 | 3 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 3571.1 | 2.3732 | 34.904 | 2 | 34.9039 | 2 | 260.3 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 5 | 4 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 3224.8 | 2.5348 | 34.9149 | 2 | 34.934 | 4 | 259 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 6 | 5 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 2901.6 | 2.8301 | 34.9341 | 2 | 34.9521 | 4 | 255.4 | 2 | 264.8 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 7 | 6 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 2621.7 | 3.1369 | 34.9515 | 2 | 34.9623 | 4 | 252.9 | 2 | 262.1 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 8 | 7 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 2424.7 | 3.3514 | 34.9626 | 2 | 34.9694 | 4 | 251.8 | 2 | 261 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 9 | 8 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 2223.2 | 3.5408 | 34.9704 | 2 | 34.9702 | 2 | 251.7 | 2 | 261.1 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 10 | 9 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 2025.5 | 3.7139 | 34.9702 | 2 | 34.971 | 2 | 252.5 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 11 | 10 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 1824.5 | 3.9018 | 34.9754 | 2 | 34.9759 | 2 | 250.9 | 2 | 260.6 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 12 | 11 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 1623.1 | 4.2438 | 34.9997 | 2 | 35.0003 | 2 | 244.7 | 2 | 254.2 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 13 | 12 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 1424.9 | 4.8391 | 35.044 | 2 | 35.0859 | 2 | 231 | 2 | 205.1 | 3 |
| 31WBTSOC | AB01 | 17 | 1 | 14 | 13 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 1223.8 | 5.9736 | 35.0853 | 2 | 35.0859 | 2 | 199.3 | 2 | 205.1 | 3 |
| 31WBTSOC | AB01 | 17 | 1 | 15 | 14 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 1027.7 | 7.8241 | 35.1071 | 2 | 35.1062 | 2 | 150 | 2 | 153.6 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 16 | 15 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 825.3 | 11.4616 | 35.4994 | 2 | 35.4976 | 2 | 153.7 | 2 | 152.5 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 17 | 1 | 17 | 16 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 622.8 | 15.6365 | 36.1167 | 2 | 36.1156 | 2 | 179 | 2 | 173.3 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 18 | 17 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 448.6 | 18.0008 | 36.5101 | 2 | 36.5027 | 2 | 196.1 | 2 | 191.5 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 19 | 18 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 325.8 | 18.8742 | 36.6115 | 2 | 36.6107 | 2 | 207.5 | 2 | 203.9 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 20 | 19 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 224.6 | 19.9773 | 36.697 | 2 | 36.692 | 2 | 209.7 | 2 | 193.2 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 21 | 20 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 150.8 | 20.9131 | 36.7777 | 2 | 36.7775 | 2 | 215.3 | 2 | 212.9 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 22 | 21 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 99.7 | 21.9376 | 36.7989 | 2 | 36.7991 | 2 | 216.7 | 2 | 213.1 | 2 |
| 31WBTSOC | AB01 | 17 | 1 | 23 | 22 | 2 | 20010430 | 607 | 26.503 | -75.3027 | 4654 | 2.8 | 24.2747 | 36.6877 | 2 | 36.6878 | 2 | 210.5 | 2 | 208.5 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 1 | 24 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 4684.7 | 2.2032 | 34.8785 | 2 | 34.8773 | 2 | 257 | 2 | 257.6 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 2 | 1 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 4400.1 | 2.2456 | 34.8875 | 2 | 34.8877 | 2 | 259.4 | 2 | 261.9 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 3 | 2 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 4249.5 | 2.2527 | 34.8898 | 2 | 34.8903 | 2 | 259.8 | 2 | 264.1 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 4 | 3 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 3872.6 | 2.2748 | 34.8954 | 2 | 34.8948 | 2 | 259.6 | 2 | 265.8 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 5 | 4 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 3499.4 | 2.3714 | 34.9043 | 2 | 34.9047 | 2 | 260 | 2 | 268.2 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 6 | 5 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 3127.3 | 2.6082 | 34.9193 | 2 | 34.9194 | 2 | 258.8 | 2 | 267.6 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 7 | 6 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 2749.3 | 2.9607 | 34.9418 | 2 | 34.942 | 2 | 254 | 2 | 264.1 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 8 | 7 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 2448.4 | 3.297 | 34.9599 | 2 | 34.9599 | 2 | 252.2 | 2 | 262.2 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 9 | 8 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 2153.2 | 3.5974 | 34.9696 | 2 | 34.9712 | 2 | 251.8 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 10 | 9 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 1850.1 | 3.878 | 34.9755 | 2 | 34.9759 | 2 | 250.8 | 2 | 261.1 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 11 | 10 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 1549.3 | 4.459 | 35.0176 | 2 | 35.0184 | 2 | 239.8 | 2 | 249.1 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 12 | 11 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 1251.9 | 5.8678 | 35.0859 | 2 | 35.0865 | 2 | 202.2 | 2 | 208.5 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 13 | 12 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 1049.8 | 7.7304 | 35.0966 | 2 | 35.0967 | 2 | 149.8 | 2 | 153.7 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 14 | 13 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 900.5 | 10.4381 | 35.3671 | 2 | 35.3706 | 2 | 147.8 | 2 | 147.5 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 15 | 14 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 749.8 | 13.6597 | 35.8072 | 2 | 35.8095 | 2 | 166 | 2 | 162.7 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 16 | 15 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 601.5 | 16.2197 | 36.2115 | 2 | 36.2124 | 2 | 183 | 2 | 179.5 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 17 | 16 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 475.4 | 17.8883 | 36.493 | 2 | 36.4932 | 2 | 193.6 | 2 | 190.4 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 18 | 17 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 350.9 | 18.7004 | 36.5943 | 2 | 36.5974 | 2 | 202.2 | 2 | 200.2 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 19 | 18 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 276.2 | 19.0266 | 36.6206 | 2 | 36.6198 | 2 | 205.5 | 2 | 203.2 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 20 | 19 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 183.7 | 20.5487 | 36.765 | 2 | 36.7646 | 2 | 215.3 | 2 | 211.6 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 21 | 20 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 148.4 | 20.9099 | 36.7802 | 2 | 36.7799 | 2 | 213 | 2 | 211.8 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 22 | 21 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 99.5 | 22.0584 | 36.8166 | 2 | 36.8184 | 2 | 217.4 | 2 | 215.6 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 23 | 22 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 48.2 | 23.1307 | 36.8653 | 2 | 36.8644 | 2 | 215.4 | 2 | 214 | 2 |
| 31WBTSOC | AB01 | 18 | 1 | 24 | 23 | 2 | 20010430 | 1059 | 26.5008 | -75.0832 | 4624 | 3.5 | 23.3266 | 36.7886 | 2 | 36.7892 | 2 | 212 | 2 | 212.4 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 1 | 24 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 4609.1 | 2.1952 | 34.8781 | 2 | 34.8795 | 2 | 256.9 | 2 | 257.6 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 2 | 1 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 4344.7 | 2.2178 | 34.8852 | 2 | 34.8848 | 2 | 258.3 | 2 | 260.9 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 3 | 2 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 4019.5 | 2.2444 | 34.8912 | 2 | 34.8913 | 2 | 259.3 | 2 | 264.1 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 4 | 3 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 3695.1 | 2.3028 | 34.8992 | 2 | 34.8986 | 2 | 259.6 | 2 | 266.6 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 5 | 4 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 3369.9 | 2.4445 | 34.9105 | 2 | 34.9102 | 2 | 259.8 | 2 | 268 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 19 | 1 | 6 | 5 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 3050.1 | 2.6697 | 34.9233 | 2 | 34.9234 | 2 | 258.1 | 2 | 266.7 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 7 | 6 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 2701.1 | 2.9727 | 34.9403 | 2 | 34.9395 | 2 | 254.7 | 2 | 264.5 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 8 | 7 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 2342.5 | 3.3382 | 34.9578 | 2 | 34.9564 | 2 | 252.6 | 2 | 262.7 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 9 | 8 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 2123.1 | 3.5686 | 34.9635 | 2 | 34.9564 | 3 | 253.2 | 2 | 263.5 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 10 | 9 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 1921.6 | 3.7475 | 34.965 | 2 | 34.9657 | 2 | 253 | 2 | 263 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 11 | 10 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 1722 | 4.0368 | 34.9823 | 2 | 34.9814 | 2 | 248.9 | 2 | 258.6 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 12 | 11 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 1522.1 | 4.4419 | 35.014 | 2 | 35.0119 | 2 | 240.3 | 2 | 249.6 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 13 | 12 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 1321.9 | 5.2835 | 35.0668 | 2 | 35.0641 | 2 | 219.9 | 2 | 227.6 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 14 | 13 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 1126.3 | 6.7781 | 35.0809 | 2 | 35.0814 | 2 | 171.8 | 2 | 176.3 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 15 | 14 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 921.5 | 9.8075 | 35.2935 | 2 | 35.2931 | 2 | 145 | 2 | 145.4 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 16 | 15 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 724.2 | 13.9137 | 35.8448 | 2 | 35.8446 | 2 | 169.2 | 2 | 163.9 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 17 | 16 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 548.7 | 17.1051 | 36.3597 | 2 | 36.3611 | 2 | 190.3 | 2 | 183.4 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 18 | 17 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 381.4 | 18.4405 | 36.5673 | 2 | 36.5679 | 2 | 195 | 2 | 191.2 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 19 | 18 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 263.1 | 19.2596 | 36.645 | 2 | 36.6456 | 2 | 196.9 | 2 | 194.8 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 20 | 19 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 191.3 | 20.3919 | 36.7496 | 2 | 36.7503 | 2 | 198.9 | 2 | 198.3 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 21 | 20 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 144.5 | 21.5846 | 36.821 | 2 | 36.8241 | 2 | 206.7 | 2 | 204.5 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 22 | 21 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 91.8 | 22.5076 | 36.8146 | 2 | 36.8154 | 2 | 214.8 | 2 | 213.1 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 23 | 22 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 45.6 | 23.4297 | 36.7806 | 2 | 36.7819 | 2 | 213 | 2 | 212.1 | 2 |
| 31WBTSOC | AB01 | 19 | 1 | 24 | 23 | 2 | 20010430 | 1612 | 26.497 | -74.8017 | 4550 | 3 | 23.5002 | 36.7768 | 2 | 36.7767 | 2 | 210.8 | 2 | 211.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 1 | 24 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 4557.4 | 2.1923 | 34.8791 | 2 | 34.8795 | 2 | 257.1 | 2 | 258.3 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 2 | 1 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 4235.5 | 2.2335 | 34.8883 | 2 | 34.8881 | 2 | 259.6 | 2 | 262.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 3 | 2 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 3873.6 | 2.2667 | 34.8947 | 2 | 34.895 | 2 | 260.1 | 2 | 265.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 4 | 3 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 3600 | 2.311 | 34.8989 | 2 | 34.8994 | 2 | 260.1 | 2 | 271 | 3 |
| 31WBTSOC | AB01 | 20 | 1 | 5 | 4 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 3347.8 | 2.4353 | 34.9099 | 2 | 34.91 | 2 | 259.8 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 6 | 5 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 3097.8 | 2.6233 | 34.9215 | 2 | 34.9212 | 2 | 258.4 | 2 | 267.1 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 7 | 6 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 2847.7 | 2.8275 | 34.9339 | 2 | 34.9342 | 2 | 255.5 | 2 | 264.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 8 | 7 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 2598.7 | 3.0882 | 34.9494 | 2 | 34.9489 | 2 | 253.1 | 2 | 262.5 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 9 | 8 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 2373.2 | 3.3264 | 34.9632 | 2 | 34.9637 | 2 | 251.5 | 2 | 260.8 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 10 | 9 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 2123.4 | 3.5835 | 34.9724 | 2 | 34.959 | 4 | 251.2 | 2 | 261.4 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 11 | 10 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 1973.9 | 3.7314 | 34.9719 | 2 | 34.9723 | 2 | 252 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 12 | 11 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 1620.8 | 4.2098 | 34.9978 | 2 | 35.0005 | 2 | 245.7 | 2 | 255.1 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 13 | 12 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 1400.2 | 4.8424 | 35.0398 | 2 | 35.0406 | 2 | 230.9 | 2 | 240 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 14 | 13 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 1173.8 | 6.3001 | 35.0885 | 2 | 35.0893 | 2 | 189.5 | 2 | 194.9 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 15 | 14 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 976.4 | 8.7057 | 35.1769 | 2 | 35.1785 | 2 | 144.3 | 2 | 146.6 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 16 | 15 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 778.3 | 12.4198 | 35.6282 | 2 | 35.6377 | 2 | 157.3 | 2 | 156.1 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 17 | 16 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 628.8 | 15.4662 | 36.0896 | 2 | 36.0911 | 2 | 175.8 | 2 | 171.9 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 20 | 1 | 18 | 17 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 477 | 17.7425 | 36.4673 | 2 | 36.4688 | 2 | 193.3 | 2 | 189.1 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 19 | 18 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 386.1 | 18.4582 | 36.5676 | 2 | 36.5667 | 2 | 195.7 | 2 | 193.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 20 | 19 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 294.6 | 18.946 | 36.6189 | 2 | 36.6188 | 2 | 203.3 | 2 | 202.1 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 21 | 20 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 212.6 | 20.1217 | 36.7203 | 2 | 36.7208 | 2 | 199.6 | 2 | 197.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 22 | 21 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 162.4 | 21.2286 | 36.7992 | 2 | 36.7993 | 2 | 204.9 | 2 | 203.7 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 23 | 22 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 109.9 | 22.2151 | 36.8381 | 2 | 36.8382 | 2 | 210.1 | 2 | 209.3 | 2 |
| 31WBTSOC | AB01 | 20 | 1 | 24 | 23 | 2 | 20010430 | 2132 | 26.5017 | -74.5148 | 4500 | 60.1 | 23.4068 | 36.792 | 2 | 36.7952 | 2 | 212.9 | 2 | 211.4 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 1 | 24 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 4608 | 2.206 | 34.8798 | 2 | 34.8815 | 2 | 258.4 | 2 | 258.5 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 2 | 1 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 4397.1 | 2.2382 | 34.8865 | 2 | 34.8874 | 2 | 260.5 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 3 | 2 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 4097.3 | 2.263 | 34.8921 | 2 | 34.8925 | 2 | 261.1 | 2 | 264.6 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 4 | 3 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 3795.3 | 2.2892 | 34.8962 | 2 | 34.8968 | 2 | 260.7 | 2 | 265.9 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 5 | 4 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 3499.3 | 2.3617 | 34.9028 | 2 | 34.9043 | 2 | 260.7 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 6 | 5 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 3197.7 | 2.5548 | 34.9169 | 2 | 34.918 | 2 | 259.4 | 2 | 267.4 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 7 | 6 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 2900.5 | 2.7994 | 34.9308 | 2 | 34.9316 | 2 | 257.4 | 2 | 265.9 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 8 | 7 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 2598.2 | 3.1089 | 34.9509 | 2 | 34.9519 | 2 | 252.4 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 9 | 8 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 2388 | 3.3275 | 34.9636 | 2 | 34.9641 | 2 | 251.7 | 2 | 260.7 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 10 | 9 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 2187.1 | 3.4969 | 34.9671 | 2 | 34.968 | 2 | 252.2 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 11 | 10 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 1988.9 | 3.6867 | 34.9713 | 2 | 34.9718 | 2 | 251.9 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 12 | 11 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 1791.2 | 3.8817 | 34.9727 | 2 | 34.9747 | 2 | 251.6 | 2 | 261 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 13 | 12 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 1488.3 | 4.5138 | 35.0233 | 2 | 35.0239 | 2 | 239.2 | 2 | 247.9 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 14 | 13 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 1289.1 | 5.2757 | 35.068 | 2 | 35.069 | 2 | 220.6 | 2 | 227.6 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 15 | 14 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 989.6 | 7.9335 | 35.1126 | 2 | 35.1131 | 2 | 149.2 | 2 | 151.8 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 16 | 15 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 788.3 | 11.7831 | 35.543 | 2 | 35.6831 | 4 | 155.7 | 2 | 158.5 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 17 | 16 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 662.3 | 14.4863 | 35.9313 | 2 | 35.945 | 2 | 173.1 | 2 | 168.3 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 18 | 17 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 529.5 | 16.8245 | 36.3151 | 2 | 36.3161 | 2 | 185 | 2 | 180.7 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 19 | 18 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 400.8 | 18.1796 | 36.5331 | 2 | 36.534 | 2 | 193.8 | 2 | 190.5 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 20 | 19 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 272.7 | 19.0137 | 36.6224 | 2 | 36.6234 | 2 | 201.4 | 2 | 200.1 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 21 | 20 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 170.5 | 20.7481 | 36.7803 | 2 | 36.7809 | 2 | 206.4 | 2 | 205.2 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 22 | 21 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 171.3 | 20.7085 | 36.774 | 2 | 36.7783 | 2 | 207.3 | 2 | 204.8 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 23 | 22 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 113 | 22.0809 | 36.8414 | 2 | 36.8416 | 2 | 209.3 | 2 | 207.9 | 2 |
| 31WBTSOC | AB01 | 21 | 1 | 24 | 23 | 2 | 20010501 | 311 | 26.503 | -74.2487 | 4549 | 54.6 | 23.5125 | 36.7471 | 2 | 36.7477 | 2 | 212.4 | 2 | 211.2 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 1 | 24 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 4716.7 | 2.2285 | 34.8805 | 2 | 34.8817 | 2 | 259.4 | 2 | 258.9 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 2 | 1 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 4448 | 2.2433 | 34.8864 | 2 | 34.8864 | 2 | 260.3 | 2 | 261.8 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 3 | 2 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 4198.4 | 2.2602 | 34.8904 | 2 | 34.8901 | 2 | 260.7 | 2 | 264 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 4 | 3 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 3898.5 | 2.2913 | 34.8966 | 2 | 34.8964 | 2 | 261.2 | 2 | 266.1 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 5 | 4 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 3547.6 | 2.3894 | 34.9053 | 2 | 34.9055 | 2 | 261 | 2 | 267.6 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 22 | 1 | 6 | 5 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 3124.7 | 2.6372 | 34.9206 | 2 | 34.9208 | 2 | 259.1 | 2 | 267.3 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 7 | 6 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 2747.3 | 2.9464 | 34.94 | 2 | 34.9403 | 2 | 254.7 | 2 | 264.1 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 8 | 7 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 2447.8 | 3.2559 | 34.9566 | 2 | 34.9574 | 2 | 252.7 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 9 | 8 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 2149.4 | 3.5535 | 34.9689 | 2 | 34.969 | 2 | 251.7 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 10 | 9 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 1841.8 | 3.7869 | 34.9717 | 2 | 34.9721 | 2 | 251.6 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 11 | 10 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 1549.5 | 4.3449 | 35.011 | 2 | 35.0117 | 2 | 242 | 2 | 251.4 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 12 | 11 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 1252.1 | 5.3378 | 35.0723 | 2 | 35.0731 | 2 | 217.1 | 2 | 224.2 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 13 | 12 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 1049.6 | 7.1041 | 35.0934 | 2 | 35.0934 | 2 | 167.7 | 2 | 170.6 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 14 | 13 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 899.9 | 9.183 | 35.2201 | 2 | 35.2204 | 2 | 142.8 | 2 | 144.8 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 15 | 14 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 750.1 | 12.217 | 35.5968 | 2 | 35.5935 | 2 | 154.9 | 2 | 153.2 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 16 | 15 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 599.2 | 15.3561 | 36.0699 | 2 | 36.0696 | 2 | 177.2 | 2 | 173.1 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 17 | 16 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 473.4 | 17.3847 | 36.4088 | 2 | 36.5669 | 2 | 188.9 | 2 | 185.7 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 18 | 17 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 351.1 | 18.442 | 36.5677 | 2 | 36.6373 | 2 | 193.1 | 2 | 191.3 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 19 | 18 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 248.1 | 19.1641 | 36.6377 | 2 | 36.7325 | 2 | 197.7 | 2 | 196 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 20 | 19 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 202.2 | 20.1873 | 36.7343 | 2 | 36.8116 | 2 | 196.1 | 2 | 183.2 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 21 | 20 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 150.9 | 21.2736 | 36.8153 | 2 | 36.8124 | 2 | 200 | 2 | 198.8 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 22 | 21 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 100.7 | 22.3391 | 36.8371 | 2 | 36.836 | 2 | 213.3 | 2 | 211.5 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 23 | 22 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 49.9 | 23.2501 | 36.727 | 2 | 36.7263 | 2 | 212.6 | 2 | 212.1 | 2 |
| 31WBTSOC | AB01 | 22 | 1 | 24 | 23 | 2 | 20010501 | 827 | 26.5015 | -73.9658 | 4655 | 3.7 | 23.2329 | 36.7282 | 2 | 36.1499 | 4 | 210.2 | 2 | 211.8 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 1 | 24 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 4936 | 2.2089 | 34.8748 | 2 | 34.8746 | 2 | 256.8 | 2 | 256.2 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 2 | 1 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 4800 | 2.2431 | 34.8812 | 2 | 34.8815 | 2 | 258.7 | 2 | 259.1 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 3 | 2 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 4550.4 | 2.2684 | 34.8879 | 2 | 34.8881 | 2 | 260.2 | 2 | 262.5 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 4 | 3 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 4145.9 | 2.2969 | 34.8946 | 2 | 34.894 | 2 | 261.1 | 2 | 265.5 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 5 | 4 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 3799.6 | 2.3821 | 34.903 | 2 | 34.9033 | 2 | 261.6 | 2 | 267.8 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 6 | 5 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 3497.8 | 2.4999 | 34.9122 | 2 | 34.9119 | 2 | 260.2 | 2 | 267.3 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 7 | 6 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 3149.8 | 2.7237 | 34.9264 | 2 | 34.9271 | 2 | 257.6 | 2 | 265.6 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 8 | 7 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 2799.7 | 2.9795 | 34.9412 | 2 | 34.9411 | 2 | 254.8 | 2 | 263.6 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 9 | 8 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 2551.2 | 3.187 | 34.9524 | 2 | 34.9529 | 2 | 253.5 | 2 | 253.4 | 3 |
| 31WBTSOC | AB01 | 23 | 1 | 10 | 9 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 2251 | 3.4637 | 34.9645 | 2 | 34.9647 | 2 | 252.2 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 11 | 10 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 1899.4 | 3.7678 | 34.9722 | 2 | 34.9718 | 2 | 251.5 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 12 | 11 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 1584.3 | 4.1912 | 34.9938 | 2 | 34.9946 | 2 | 245.3 | 2 | 255.2 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 13 | 12 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 1273 | 5.3478 | 35.0808 | 2 | 35.0816 | 2 | 215.9 | 2 | 223 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 14 | 13 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 999.2 | 7.6108 | 35.1155 | 2 | -999 | 9 | 157.9 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 23 | 1 | 15 | 14 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 850.6 | 9.8838 | 35.299 | 2 | 35.2985 | 2 | 143.7 | 2 | 144.7 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 16 | 15 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 699.1 | 13.1705 | 35.7341 | 2 | 35.7326 | 2 | 160 | 2 | 156.1 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 17 | 16 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 550.7 | 16.1351 | 36.2031 | 2 | 36.2057 | 2 | 180.8 | 2 | 175.5 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 23 | 1 | 18 | 17 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 400.3 | 18.1221 | 36.5277 | 2 | 36.5302 | 2 | 195.2 | 2 | 190.5 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 19 | 18 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 299.6 | 18.9115 | 36.6203 | 2 | 36.622 | 2 | 207.2 | 2 | 203.6 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 20 | 19 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 226.4 | 19.3852 | 36.6564 | 2 | 36.6583 | 2 | 196.4 | 2 | 195.7 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 21 | 20 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 160.5 | 20.8193 | 36.7875 | 2 | 36.788 | 2 | 198.4 | 2 | 196.9 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 22 | 21 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 110.2 | 21.6972 | 36.8123 | 2 | 36.814 | 2 | 218.1 | 2 | 216 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 23 | 22 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 50.5 | 22.5556 | 36.8479 | 2 | 36.8553 | 2 | 215.6 | 2 | 214.7 | 2 |
| 31WBTSOC | AB01 | 23 | 1 | 24 | 23 | 2 | 20010501 | 1417 | 26.501 | -73.5823 | 4868 | 2 | 22.5624 | 36.8467 | 2 | 36.8585 | 3 | 213.5 | 2 | 214.7 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 1 | 24 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 5133 | 2.1232 | 34.8615 | 2 | 34.862 | 2 | 251 | 2 | 251.9 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 2 | 1 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 4901.7 | 2.2531 | 34.8809 | 2 | 34.8815 | 2 | 257.7 | 2 | 259.3 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 3 | 2 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 4601.9 | 2.2821 | 34.8884 | 2 | 34.8883 | 2 | 259.8 | 2 | 262.7 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 4 | 3 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 4249.1 | 2.3044 | 34.894 | 2 | 34.8938 | 2 | 260.2 | 2 | 265.1 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 5 | 4 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 3899.2 | 2.3507 | 34.9004 | 2 | 34.8999 | 2 | 260.4 | 2 | 267.2 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 6 | 5 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 3548.3 | 2.4825 | 34.9103 | 2 | 34.9104 | 2 | 260 | 2 | 267.6 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 7 | 6 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 3250.8 | 2.6684 | 34.9224 | 2 | 34.9243 | 2 | 257.1 | 2 | 265.7 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 8 | 7 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 2950 | 2.8746 | 34.936 | 2 | 34.9359 | 2 | 254.5 | 2 | 263.6 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 9 | 8 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 2651.3 | 3.102 | 34.9511 | 2 | 34.9507 | 2 | 251.7 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 10 | 9 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 2348.6 | 3.4022 | 34.9653 | 2 | 34.9659 | 2 | 251.2 | 2 | 261.2 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 11 | 10 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 2049.7 | 3.6547 | 34.969 | 2 | 34.9684 | 2 | 251.8 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 12 | 11 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 1751.3 | 3.9495 | 34.9774 | 2 | 34.9773 | 2 | 249.8 | 2 | 260 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 13 | 12 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 1426.7 | 4.6133 | 35.0296 | 2 | 35.0308 | 2 | 235.8 | 2 | 245 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 14 | 13 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 1102.9 | 6.3165 | 35.0855 | 2 | 35.0843 | 2 | 184.7 | 2 | 190.9 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 15 | 14 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 877.7 | 9.0908 | 35.2176 | 2 | 35.219 | 2 | 144.6 | 2 | 146.3 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 16 | 15 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 727.6 | 12.3998 | 35.6327 | 2 | 35.6339 | 2 | 161.9 | 2 | 159.3 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 17 | 16 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 575.7 | 15.3939 | 36.077 | 2 | 36.0779 | 2 | 178.4 | 2 | 173.9 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 18 | 17 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 424.8 | 17.7512 | 36.4708 | 2 | 36.4706 | 2 | 193.2 | 2 | 189 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 19 | 18 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 276.5 | 18.8396 | 36.6119 | 2 | 36.6165 | 2 | 211.1 | 2 | 208.7 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 20 | 19 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 211 | 19.0863 | 36.6443 | 2 | 36.643 | 2 | 214.4 | 2 | 213.3 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 21 | 20 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 148.6 | 19.5674 | 36.6827 | 2 | 36.6696 | 3 | 220 | 2 | 219.2 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 22 | 21 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 99.8 | 20.3247 | 36.7343 | 2 | 36.7348 | 2 | 202.4 | 2 | 202.9 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 23 | 22 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 51.5 | 21.5469 | 36.8121 | 2 | 36.814 | 2 | 220.1 | 2 | 210.7 | 2 |
| 31WBTSOC | AB01 | 24 | 1 | 24 | 23 | 2 | 20010501 | 1924 | 26.5002 | -73.2195 | 5059 | 2.8 | 22.0238 | 36.8226 | 2 | 36.8219 | 2 | 218.4 | 2 | 216.5 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 1 | 24 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 5163.8 | 2.0469 | 34.8516 | 2 | 34.8516 | 2 | 247.9 | 2 | 252.3 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 2 | 1 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 4998.2 | 2.1333 | 34.8652 | 2 | 34.8643 | 2 | 250.9 | 2 | 255.6 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 3 | 2 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 4698.9 | 2.2646 | 34.886 | 2 | 34.8852 | 2 | 258.9 | 2 | 263.3 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 4 | 3 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 4299.8 | 2.2956 | 34.8934 | 2 | 34.8921 | 2 | 261.3 | 2 | 270.4 | 4 |
| 31WBTSOC | AB01 | 25 | 1 | 5 | 4 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 3948.7 | 2.3382 | 34.8998 | 2 | 34.8984 | 2 | 261.4 | 2 | 268.6 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 25 | 1 | 6 | 5 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 3596.6 | 2.4571 | 34.9093 | 2 | 34.9086 | 2 | 260.9 | 2 | 269.7 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 7 | 6 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 3199 | 2.6619 | 34.9229 | 2 | 34.9226 | 2 | 258.3 | 2 | 268.3 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 8 | 7 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 2900.1 | 2.9053 | 34.9385 | 2 | 34.9385 | 2 | 254.8 | 2 | 265.7 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 9 | 8 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 2600.7 | 3.17 | 34.9541 | 2 | 34.9537 | 2 | 252.7 | 2 | 263.2 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 10 | 9 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 2302.7 | 3.4167 | 34.966 | 2 | 34.9653 | 2 | 251.6 | 2 | 264.7 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 11 | 10 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 2000.6 | 3.6577 | 34.9681 | 2 | 34.967 | 2 | 252.9 | 2 | 263.9 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 12 | 11 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 1700 | 3.9804 | 34.9807 | 2 | 34.9802 | 2 | 249.7 | 2 | 261.4 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 13 | 12 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 1400.4 | 4.6333 | 35.0292 | 2 | 35.0288 | 2 | 235.5 | 2 | 247.1 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 14 | 13 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 1148.1 | 6.0048 | 35.0875 | 2 | 35.0883 | 2 | 195.6 | 2 | 203.8 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 15 | 14 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 900.2 | 8.4357 | 35.1615 | 2 | 35.1615 | 2 | 147.7 | 2 | 150.4 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 16 | 15 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 748.8 | 11.5168 | 35.5034 | 2 | 35.5041 | 2 | 152.3 | 2 | 151.5 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 17 | 16 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 601.7 | 15.1291 | 36.0375 | 2 | 36.0373 | 2 | 174.7 | 2 | 169.9 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 18 | 17 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 452.9 | 17.5164 | 36.4293 | 2 | 36.4278 | 2 | 191.5 | 2 | 186.8 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 19 | 18 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 301 | 18.8084 | 36.608 | 2 | 36.6067 | 2 | 206.4 | 2 | 204 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 20 | 19 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 202.1 | 19.3573 | 36.6659 | 2 | 36.665 | 2 | 208.9 | 2 | 208.2 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 21 | 20 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 155.2 | 19.9467 | 36.7043 | 2 | 36.7079 | 2 | 197.2 | 2 | 196.8 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 22 | 21 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 111.6 | 20.878 | 36.7799 | 2 | 36.7805 | 2 | 206.3 | 2 | 205 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 23 | 22 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 60.5 | 21.8242 | 36.8031 | 2 | 36.8041 | 2 | 217.6 | 2 | 215.9 | 2 |
| 31WBTSOC | AB01 | 25 | 1 | 24 | 23 | 2 | 20010502 | 1544 | 26.5595 | -72.8512 | 5089 | 3.1 | 23.0434 | 36.8381 | 2 | 36.8352 | 2 | 213.8 | 2 | 213.6 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 1 | 24 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 5234.9 | 2.1077 | 34.8588 | 2 | 34.8584 | 2 | 251.7 | 2 | 251.6 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 2 | 1 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 5098.9 | 2.2676 | 34.8804 | 2 | 34.8793 | 2 | 259.2 | 2 | 258.7 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 3 | 2 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 4799.4 | 2.2762 | 34.8859 | 2 | -999 | 9 | 260.7 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 26 | 1 | 4 | 3 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 4498.8 | 2.289 | 34.8905 | 2 | 34.8895 | 2 | 260.8 | 2 | 263.5 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 5 | 4 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 4195.5 | 2.2913 | 34.8936 | 2 | 34.8933 | 2 | 260.5 | 2 | 265 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 6 | 5 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 3799.2 | 2.3741 | 34.903 | 2 | 34.9015 | 2 | 261.2 | 2 | 267.5 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 7 | 6 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 3400.6 | 2.5358 | 34.9149 | 2 | 34.9147 | 2 | 259.7 | 2 | 267.4 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 8 | 7 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 2998.4 | 2.8031 | 34.9317 | 2 | 34.9308 | 2 | 256.8 | 2 | 265.4 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 9 | 8 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 2692.9 | 3.0411 | 34.9471 | 2 | 34.946 | 2 | 253.2 | 2 | 262.6 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 10 | 9 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 2400 | 3.3216 | 34.9642 | 2 | 34.9629 | 2 | 251.2 | 2 | 261.1 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 11 | 10 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 2100.8 | 3.5739 | 34.973 | 2 | 34.9718 | 2 | 250.8 | 2 | 261 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 12 | 11 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 1798.7 | 3.8959 | 34.9776 | 2 | 34.9775 | 2 | 250.4 | 2 | 260.6 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 13 | 12 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 1449.5 | 4.603 | 35.0346 | 2 | 35.0343 | 2 | 236.3 | 2 | 245.5 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 14 | 13 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 1099.5 | 6.1941 | 35.078 | 2 | -999 | 9 | 185.7 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 26 | 1 | 15 | 14 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 902 | 8.391 | 35.1522 | 2 | 35.1507 | 2 | 146.3 | 2 | 148.9 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 16 | 15 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 698.6 | 12.2903 | 35.6075 | 2 | 35.6124 | 2 | 153.4 | 2 | 153.6 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 17 | 16 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 549.3 | 15.5899 | 36.1026 | 2 | 36.1008 | 2 | 176.7 | 2 | 171.8 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 26 | 1 | 18 | 17 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 400.6 | 17.798 | 36.4816 | 2 | 36.4807 | 2 | 195.8 | 2 | 190.7 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 19 | 18 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 311.4 | 18.4087 | 36.5656 | 2 | 36.5651 | 2 | 194.9 | 2 | 191.8 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 20 | 19 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 242.1 | 18.7464 | 36.5944 | 2 | 36.5923 | 2 | 200.1 | 2 | 198.3 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 21 | 20 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 178.6 | 19.1002 | 36.6195 | 2 | 36.6165 | 2 | 197.8 | 2 | 196.5 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 22 | 21 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 119.6 | 20.0368 | 36.7146 | 2 | 36.7083 | 2 | 197.3 | 2 | 194.9 | 2 |
| 31WBTSOC | AB01 | 26 | 1 | 23 | 22 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 55.5 | 21.594 | 36.8046 | 2 | -999 | 9 | 218.7 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 26 | 1 | 24 | 23 | 2 | 20010502 | 2227 | 26.5015 | -72.4652 | 5158 | 4.4 | 22.408 | 36.8603 | 2 | 36.859 | 2 | 215.7 | 2 | 215.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 1 | 24 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 5365.2 | 2.0638 | 34.8505 | 2 | 34.8514 | 2 | 248.8 | 2 | 248.7 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 2 | 1 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 5199.2 | 2.1699 | 34.8665 | 2 | 34.8659 | 2 | 251.7 | 2 | 253.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 3 | 2 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 4903.6 | 2.2757 | 34.8851 | 2 | 34.884 | 2 | 258.6 | 2 | 260.5 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 4 | 3 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 4597.1 | 2.2908 | 34.8899 | 2 | 34.8893 | 2 | 260.2 | 2 | 263.7 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 5 | 4 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 4298 | 2.3153 | 34.8954 | 2 | 34.894 | 2 | 261 | 2 | 265.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 6 | 5 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 3899.4 | 2.3675 | 34.9019 | 2 | 34.9017 | 2 | 260.9 | 2 | 267.7 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 7 | 6 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 3497.9 | 2.495 | 34.9121 | 2 | 34.9115 | 2 | 259.7 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 8 | 7 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 3098.5 | 2.7608 | 34.9296 | 2 | 34.9287 | 2 | 255.6 | 2 | 264.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 9 | 8 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 2801.3 | 2.9684 | 34.9426 | 2 | 34.9422 | 2 | 253.4 | 2 | 262.7 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 10 | 9 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 2499.1 | 3.2388 | 34.9598 | 2 | 34.9596 | 2 | 251.4 | 2 | 261 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 11 | 10 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 2199.9 | 3.4758 | 34.9678 | 2 | 34.9678 | 2 | 251.7 | 2 | 261.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 12 | 11 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 1898.5 | 3.773 | 34.9783 | 2 | 34.9781 | 2 | 250.3 | 2 | 260.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 13 | 12 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 1496.2 | 4.3828 | 35.0161 | 2 | 35.0151 | 2 | 240.9 | 2 | 250.7 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 14 | 13 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 1199.7 | 5.6398 | 35.0878 | 2 | 35.0865 | 2 | 209.4 | 2 | 216.2 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 15 | 14 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 997 | 7.1423 | 35.0992 | 2 | 35.0999 | 2 | 167.3 | 2 | 171.3 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 16 | 15 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 803.8 | 10.112 | 35.3319 | 2 | 35.3314 | 2 | 145.7 | 2 | 146.9 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 17 | 16 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 614.3 | 14.2118 | 35.8951 | 2 | 35.8984 | 2 | 170.2 | 2 | 169.2 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 18 | 17 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 501.9 | 16.3419 | 36.2392 | 2 | 36.2385 | 2 | 181.6 | 2 | 178.2 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 19 | 18 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 354.5 | 18.0022 | 36.5132 | 2 | 36.5136 | 2 | 193.6 | 2 | 191.3 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 20 | 19 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 249.8 | 18.8033 | 36.6083 | 2 | 36.6048 | 2 | 199.4 | 2 | 197.9 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 21 | 20 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 149.5 | 20.2531 | 36.7269 | 2 | 36.7241 | 2 | 201 | 2 | 199.4 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 22 | 21 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 101 | 21.3891 | 36.8011 | 2 | 36.7989 | 2 | 215.1 | 2 | 213.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 23 | 22 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 49.3 | 23.9096 | 36.7836 | 2 | 36.7912 | 2 | 213.7 | 2 | 211.6 | 2 |
| 31WBTSOC | AB01 | 27 | 1 | 24 | 23 | 2 | 20010503 | 427 | 26.5002 | -72.1017 | 5284 | 3.3 | 23.9602 | 36.7886 | 2 | 36.787 | 2 | 208.6 | 2 | 209.4 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 1 | 24 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 5467.4 | 2.0726 | 34.8501 | 2 | 34.8508 | 2 | 248 | 2 | 248.8 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 2 | 1 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 5300.5 | 2.2102 | 34.87 | 2 | 34.8708 | 2 | 254.3 | 2 | 254.7 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 3 | 2 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 4996.7 | 2.2946 | 34.8847 | 2 | -999 | 9 | 260 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 28 | 1 | 4 | 3 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 4698.4 | 2.3092 | 34.8901 | 2 | 34.8907 | 2 | 260.9 | 2 | 263.3 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 5 | 4 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 4395.7 | 2.3118 | 34.8932 | 2 | 34.894 | 2 | 260.8 | 2 | 265.2 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 28 | 1 | 6 | 5 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 4092.8 | 2.3359 | 34.8986 | 2 | 34.899 | 2 | 261.2 | 2 | 267.1 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 7 | 6 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 3697.2 | 2.4274 | 34.9064 | 2 | 34.9064 | 2 | 260.6 | 2 | 268.4 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 8 | 7 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 3297.4 | 2.6178 | 34.9203 | 2 | 34.9212 | 2 | 257.3 | 2 | 265.8 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 9 | 8 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 2899.5 | 2.8718 | 34.9371 | 2 | 34.9385 | 2 | 253.9 | 2 | 263.1 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 10 | 9 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 2600.2 | 3.0935 | 34.9516 | 2 | 34.9523 | 2 | 252 | 2 | 261.8 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 11 | 10 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 2300.6 | 3.3722 | 34.9639 | 2 | 34.9649 | 2 | 251.4 | 2 | 261.8 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 12 | 11 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 2000.4 | 3.6035 | 34.9697 | 2 | 34.9706 | 2 | 251.7 | 2 | 262.4 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 13 | 12 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 1594.9 | 4.1646 | 35.0035 | 2 | 35.0771 | 2 | 244.8 | 2 | 230.8 | 3 |
| 31WBTSOC | AB01 | 28 | 1 | 14 | 13 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 1299.8 | 5.1225 | 35.0762 | 2 | 35.0775 | 2 | 223.1 | 2 | 231.3 | 3 |
| 31WBTSOC | AB01 | 28 | 1 | 15 | 14 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 1052.4 | 6.6495 | 35.1044 | 2 | 35.1048 | 2 | 179.3 | 2 | 184.3 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 16 | 15 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 850.5 | 9.2174 | 35.2324 | 2 | 35.2322 | 2 | 144.6 | 2 | 138 | 4 |
| 31WBTSOC | AB01 | 28 | 1 | 17 | 16 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 599.7 | 14.6423 | 35.9636 | 2 | 35.9614 | 2 | 172 | 2 | 167.1 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 18 | 17 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 450.9 | 17.0385 | 36.3535 | 2 | 36.3535 | 2 | 190 | 2 | 185.5 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 19 | 18 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 299.7 | 18.4036 | 36.5692 | 2 | 36.5695 | 2 | 190.3 | 2 | 188.3 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 20 | 19 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 250.8 | 18.8043 | 36.6022 | 2 | 36.6024 | 2 | 194.5 | 2 | 192.9 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 21 | 20 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 174 | 19.7963 | 36.6902 | 2 | 36.6926 | 2 | 200.1 | 2 | 199.7 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 22 | 21 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 117.8 | 21.4463 | 36.8332 | 2 | 36.8329 | 2 | 210.5 | 2 | 207.9 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 23 | 22 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 59.1 | 23.9901 | 36.8164 | 2 | 36.8257 | 2 | 214.1 | 2 | 210.8 | 2 |
| 31WBTSOC | AB01 | 28 | 1 | 24 | 23 | 2 | 20010503 | 1121 | 26.5033 | -71.7317 | 5383 | 2.6 | 23.9792 | 36.8206 | 2 | 36.8202 | 2 | 208.4 | 2 | 210.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 1 | 24 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 5582.8 | 2.0701 | 34.848 | 2 | 34.848 | 2 | 246 | 2 | 249.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 2 | 1 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 5346.9 | 2.1844 | 34.8664 | 2 | 34.8651 | 2 | 251.6 | 2 | 254.2 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 3 | 2 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 5102.4 | 2.2629 | 34.8799 | 2 | 34.8785 | 2 | 256.2 | 2 | 259.1 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 4 | 3 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 4799.2 | 2.2898 | 34.8871 | 2 | 34.8872 | 2 | 258.3 | 2 | 262.7 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 5 | 4 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 4498.2 | 2.301 | 34.8922 | 2 | 34.8907 | 2 | 259.7 | 2 | 264.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 6 | 5 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 4198.8 | 2.3091 | 34.8955 | 2 | 34.8942 | 2 | 259.6 | 2 | 266 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 7 | 6 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 3798.6 | 2.3603 | 34.9023 | 2 | 34.9007 | 2 | 259.4 | 2 | 267.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 8 | 7 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 3397.9 | 2.4865 | 34.9129 | 2 | 34.9117 | 2 | 257.9 | 2 | 267.4 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 9 | 8 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 3000.8 | 2.7079 | 34.9268 | 2 | 34.9237 | 3 | 255.2 | 2 | 265.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 10 | 9 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 2698 | 2.937 | 34.9416 | 2 | 34.9417 | 2 | 252.7 | 2 | 263.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 11 | 10 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 2398.5 | 3.2317 | 34.9611 | 2 | 34.9607 | 2 | 249.8 | 2 | 260.2 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 12 | 11 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 2051.7 | 3.5317 | 34.9719 | 2 | 34.971 | 2 | 250.1 | 2 | 261.3 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 13 | 12 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 1699.6 | 4.0095 | 35.0024 | 2 | 35.0025 | 2 | 245.8 | 2 | 256.1 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 14 | 13 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 1400.4 | 4.6906 | 35.0408 | 2 | 35.0406 | 2 | 234.1 | 2 | 243.8 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 15 | 14 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 1100.6 | 6.3383 | 35.1039 | 2 | 35.1036 | 2 | 190 | 2 | 196.8 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 16 | 15 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 923.9 | 8.026 | 35.1173 | 2 | 35.1149 | 2 | 145.7 | 2 | 149.2 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 17 | 16 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 674.4 | 12.897 | 35.7119 | 2 | 35.7109 | 2 | 166.3 | 2 | 163.5 | 2 |

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|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 29 | 1 | 18 | 17 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 526 | 15.8412 | 36.1573 | 2 | 36.1586 | 2 | 184.7 | 2 | 181.1 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 19 | 18 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 375.8 | 17.8833 | 36.4949 | 2 | 36.4944 | 2 | 194.6 | 2 | 192 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 20 | 19 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 275.2 | 18.645 | 36.585 | 2 | 36.5833 | 2 | 199.5 | 2 | 197.7 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 21 | 20 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 166.6 | 20.4421 | 36.7488 | 2 | 36.7497 | 2 | 211.8 | 2 | 208.5 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 22 | 21 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 110.3 | 22.3801 | 36.9194 | 2 | 41.6036 | 4 | 211.8 | 2 | 209.8 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 23 | 22 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 54.6 | 23.7272 | 36.8611 | 2 | 36.8606 | 2 | 210.5 | 2 | 210.7 | 2 |
| 31WBTSOC | AB01 | 29 | 1 | 24 | 23 | 2 | 20010503 | 1808 | 26.5027 | -71.3513 | 5495 | 4.1 | 23.7326 | 36.8566 | 2 | 36.8547 | 2 | 208.2 | 2 | 211.1 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 1 | 24 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 5583.3 | 2.0749 | 34.8484 | 2 | 34.849 | 2 | 246.7 | 2 | 248.6 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 2 | 1 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 5197.2 | 2.22 | 34.8729 | 2 | 34.8728 | 2 | 253.3 | 2 | 256.4 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 3 | 2 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 4897.2 | 2.2735 | 34.8842 | 2 | 34.8852 | 2 | 256.9 | 2 | 260.6 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 4 | 3 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 4548.7 | 2.2932 | 34.8908 | 2 | 34.8901 | 2 | 258.6 | 2 | 263.9 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 5 | 4 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 4198.1 | 2.3103 | 34.896 | 2 | 34.8956 | 2 | 259.1 | 2 | 265.6 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 6 | 5 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 3850.7 | 2.3613 | 34.9024 | 2 | 34.9021 | 2 | 257.9 | 2 | 266.1 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 7 | 6 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 3496.9 | 2.4756 | 34.9119 | 2 | 34.9121 | 2 | 256 | 2 | 265.3 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 8 | 7 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 3148.9 | 2.6579 | 34.9249 | 2 | 34.9241 | 2 | 252 | 2 | 262.3 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 9 | 8 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 2802.8 | 2.8931 | 34.9398 | 2 | 34.9391 | 2 | 251.8 | 2 | 262 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 10 | 9 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 2499.4 | 3.1228 | 34.9526 | 2 | 34.9511 | 2 | 251.2 | 2 | 262.3 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 11 | 10 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 2200.3 | 3.4397 | 34.9737 | 2 | 34.9729 | 2 | 248.6 | 2 | 259.5 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 12 | 11 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 1903.8 | 3.679 | 34.9705 | 2 | 34.9714 | 2 | 251.3 | 2 | 262.8 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 13 | 12 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 1653.2 | 4.0014 | 34.9893 | 2 | 34.9893 | 2 | 247.7 | 2 | 258.6 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 14 | 13 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 1401.6 | 4.6699 | 35.0437 | 2 | 35.0446 | 2 | 234.9 | 2 | 244.2 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 15 | 14 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 1151.9 | 5.9387 | 35.1004 | 2 | 35.0999 | 2 | 199.4 | 2 | 206 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 16 | 15 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 898.9 | 8.6001 | 35.1695 | 2 | 35.172 | 2 | 144.3 | 2 | 146.9 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 17 | 16 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 704.2 | 12.2812 | 35.6225 | 2 | 35.6331 | 2 | 161.4 | 2 | 160.4 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 18 | 17 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 553.9 | 15.3555 | 36.079 | 2 | 36.0842 | 2 | 179.9 | 2 | 177.2 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 19 | 18 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 327.6 | 18.36 | 36.5544 | 2 | 36.5546 | 2 | 195.8 | 2 | 194.4 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 20 | 19 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 225.2 | 19.0179 | 36.6162 | 2 | 36.6143 | 2 | 198.9 | 2 | 197.7 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 21 | 20 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 148.5 | 20.8987 | 36.8446 | 2 | 36.84 | 2 | 197 | 2 | 194.8 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 22 | 21 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 89.5 | 22.93 | 36.9052 | 2 | 36.9069 | 2 | 216.2 | 2 | 212.5 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 23 | 22 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 43.5 | 23.6607 | 36.8615 | 2 | 36.8604 | 2 | 212.3 | 2 | 211.7 | 2 |
| 31WBTSOC | AB01 | 30 | 1 | 24 | 23 | 2 | 20010504 | 38 | 26.5042 | -71.002 | 5496 | 3.1 | 23.6569 | 36.8616 | 2 | 36.8602 | 2 | 209.4 | 2 | 211.6 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 1 | 24 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 5591.5 | 2.0823 | 34.849 | 2 | 34.85 | 2 | 247.1 | 2 | 248.8 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 2 | 1 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 5297.3 | 2.2457 | 34.8743 | 2 | 34.8744 | 2 | 255.4 | 2 | 257.2 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 3 | 2 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 4948 | 2.296 | 34.8859 | 2 | -999 | 9 | 259.7 | 2 | -999 | 9 |
| 31WBTSOC | AB01 | 31 | 1 | 4 | 3 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 4599.1 | 2.3036 | 34.8911 | 2 | 34.8913 | 2 | 259.8 | 2 | 264.1 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 5 | 4 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 4297.6 | 2.3137 | 34.8949 | 2 | 34.8952 | 2 | 259.9 | 2 | 266.2 | 2 |

| | | | | | | | | | | | | | | | | | | | | | |
|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 31 | 1 | 6 | 5 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 3898.4 | 2.3475 | 34.9007 | 2 | 34.9017 | 2 | 259.6 | 2 | 267.2 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 7 | 6 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 3548 | 2.4436 | 34.9092 | 2 | 34.9094 | 2 | 258.7 | 2 | 267.6 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 8 | 7 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 3199.8 | 2.6084 | 34.9202 | 2 | 34.9208 | 2 | 256.1 | 2 | 266.2 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 9 | 8 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 2851.3 | 2.8514 | 34.9373 | 2 | 34.9385 | 2 | 251.8 | 2 | 262.4 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 10 | 9 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 2449.5 | 3.1971 | 34.9584 | 2 | 34.9588 | 2 | 250.1 | 2 | 261.2 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 11 | 10 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 2048.7 | 3.5672 | 34.9738 | 2 | 34.9755 | 2 | 249.7 | 2 | 260.8 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 12 | 11 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 1696.5 | 4.0129 | 34.9935 | 2 | 34.9942 | 2 | 246.9 | 2 | 258 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 13 | 12 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 1374.1 | 4.8357 | 35.0521 | 2 | 35.0523 | 2 | 230.9 | 2 | 240.3 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 14 | 13 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 1101.9 | 6.5159 | 35.1062 | 2 | 35.1058 | 2 | 183 | 2 | 189 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 15 | 14 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 949.7 | 7.6595 | 35.0846 | 2 | 35.0839 | 2 | 147.2 | 2 | 151.3 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 16 | 15 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 755.4 | 11.6233 | 35.5348 | 2 | 35.5414 | 2 | 157.4 | 2 | 156.5 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 17 | 16 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 651.3 | 13.7362 | 35.8281 | 2 | 35.8334 | 2 | 169.1 | 2 | 167.9 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 18 | 17 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 502.3 | 16.7449 | 36.3068 | 2 | 36.3054 | 2 | 190.4 | 2 | 185.6 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 19 | 18 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 349.1 | 18.3446 | 36.5533 | 2 | 36.5501 | 2 | 194.1 | 2 | 192.2 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 20 | 19 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 248.3 | 18.9733 | 36.6115 | 2 | 37.2716 | 4 | 198 | 2 | 197.3 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 21 | 20 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 160.7 | 20.7026 | 36.7695 | 2 | 36.7719 | 2 | 207.5 | 2 | 205.7 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 22 | 21 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 110 | 21.9796 | 36.8294 | 2 | 36.8275 | 2 | 214.6 | 2 | 212.7 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 23 | 22 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 57.7 | 23.9592 | 36.804 | 2 | 36.8136 | 3 | 213 | 2 | 210.3 | 2 |
| 31WBTSOC | AB01 | 31 | 1 | 24 | 23 | 2 | 20010504 | 929 | 26.5052 | -70.6832 | 5504 | 3.4 | 23.9509 | 36.8063 | 2 | 36.8053 | 2 | 207.8 | 2 | 209.9 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 1 | 24 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 5591.5 | 2.0755 | 34.8484 | 2 | 34.8492 | 2 | 246.2 | 2 | 248.6 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 2 | 1 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 5397.1 | 2.1656 | 34.8628 | 2 | 34.8622 | 2 | 249.6 | 2 | 253.2 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 3 | 2 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 5097.5 | 2.2553 | 34.879 | 2 | 34.8793 | 2 | 255.3 | 2 | 258.5 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 4 | 3 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 4800.9 | 2.286 | 34.8869 | 2 | 34.8866 | 2 | 257.6 | 2 | 265.8 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 5 | 4 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 4450.6 | 2.3002 | 34.893 | 2 | 34.8933 | 2 | 259 | 2 | 265.1 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 6 | 5 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 4104.5 | 2.3213 | 34.8974 | 2 | 34.898 | 2 | 258.9 | 2 | 266.8 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 7 | 6 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 3673.4 | 2.3959 | 34.9052 | 2 | 34.9056 | 2 | 258.8 | 2 | 267.9 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 8 | 7 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 3251.3 | 2.5795 | 34.9187 | 2 | 34.9188 | 2 | 255.8 | 2 | 266.3 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 9 | 8 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 2851.6 | 2.8369 | 34.9366 | 2 | 34.9361 | 2 | 251.4 | 2 | 262.4 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 10 | 9 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 2498.5 | 3.121 | 34.9523 | 2 | 34.9531 | 2 | 251 | 2 | 262.4 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 11 | 10 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 2151.6 | 3.5577 | 34.9877 | 2 | 34.9867 | 2 | 245 | 2 | 256.8 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 12 | 11 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 1799.8 | 3.9006 | 34.9851 | 2 | 34.9847 | 2 | 248.6 | 2 | 259.5 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 13 | 12 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 1553.9 | 4.3596 | 35.0159 | 2 | 35.0202 | 3 | 241.1 | 2 | 250.8 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 14 | 13 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 1297.6 | 5.3064 | 35.0783 | 2 | 35.079 | 2 | 219.1 | 2 | 226.5 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 15 | 14 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 1050 | 6.9913 | 35.089 | 2 | 35.0883 | 2 | 168.3 | 2 | 173 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 16 | 15 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 798.3 | 11.3044 | 35.4888 | 2 | 35.4881 | 2 | 154.3 | 2 | 153.9 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 17 | 16 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 650 | 14.124 | 35.8871 | 2 | 35.8895 | 2 | 174.5 | 2 | 170.8 | 2 |

| | | | | | | | | | | | | | | | | | | | | | |
|----------|------|----|---|----|----|---|----------|------|---------|----------|------|--------|---------|---------|---|---------|---|-------|---|-------|---|
| 31WBTSOC | AB01 | 32 | 1 | 18 | 17 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 527.3 | 16.482 | 36.2654 | 2 | 36.2672 | 2 | 190.2 | 2 | 186.5 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 19 | 18 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 402.2 | 18.0738 | 36.5194 | 2 | 36.5193 | 2 | 194.8 | 2 | 192.2 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 20 | 19 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 280.6 | 19.0305 | 36.6168 | 2 | 36.6153 | 2 | 198.9 | 2 | 197.1 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 21 | 20 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 151.4 | 21.2787 | 36.8062 | 2 | 36.8061 | 2 | 210.8 | 2 | 210 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 22 | 21 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 98.8 | 22.6087 | 36.8654 | 2 | 36.8638 | 2 | 215.9 | 2 | 215.7 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 23 | 22 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 50.2 | 23.9202 | 36.8011 | 2 | 36.8011 | 2 | 211 | 2 | 210.5 | 2 |
| 31WBTSOC | AB01 | 32 | 1 | 24 | 23 | 2 | 20010504 | 1607 | 26.5003 | -70.2323 | 5503 | 3.8 | 24.0186 | 36.7699 | 2 | 36.7682 | 2 | 207.4 | 2 | 209.9 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 1 | 24 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 5592.4 | 2.0808 | 34.8485 | 2 | 34.8498 | 2 | 246.5 | 2 | 248.5 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 2 | 1 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 5199.4 | 2.2083 | 34.8714 | 2 | 34.8714 | 2 | 252.2 | 2 | 256.4 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 3 | 2 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 4847.6 | 2.2717 | 34.8842 | 2 | 34.8838 | 2 | 256.6 | 2 | 260.7 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 4 | 3 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 4499.1 | 2.2957 | 34.892 | 2 | 34.8909 | 2 | 257.1 | 2 | 247.7 | 3 |
| 31WBTSOC | AB01 | 33 | 1 | 5 | 4 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 4199.7 | 2.3239 | 34.8972 | 2 | 34.8966 | 2 | 256.8 | 2 | 263.8 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 6 | 5 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 3900.7 | 2.361 | 34.9019 | 2 | 34.9011 | 2 | 258.9 | 2 | 267.4 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 7 | 6 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 3599.9 | 2.445 | 34.9088 | 2 | 34.9092 | 2 | 258.5 | 2 | 268 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 8 | 7 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 3299.1 | 2.5804 | 34.9193 | 2 | 34.9182 | 2 | 252.2 | 2 | 261.7 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 9 | 8 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 3000.2 | 2.7735 | 34.9349 | 2 | 34.9359 | 2 | 244.7 | 2 | 255.6 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 10 | 9 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 2652.2 | 3.0292 | 34.9551 | 2 | 34.956 | 2 | 243.1 | 2 | 254.5 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 11 | 10 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 2300.4 | 3.2791 | 34.9661 | 2 | 34.9664 | 2 | 248.2 | 2 | 259.2 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 12 | 11 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 1949.9 | 3.7891 | 35.0023 | 2 | 35.0023 | 2 | 244 | 2 | 255.3 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 13 | 12 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 1601.7 | 4.4149 | 35.0358 | 2 | 35.0658 | 4 | 238.3 | 2 | 238.7 | 3 |
| 31WBTSOC | AB01 | 33 | 1 | 14 | 13 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 1252.7 | 5.5898 | 35.0885 | 2 | 35.0887 | 2 | 210 | 2 | 217.6 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 15 | 14 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 1051.7 | 7.2134 | 35.1049 | 2 | 35.1107 | 3 | 165 | 2 | 169.6 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 16 | 15 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 900.9 | 9.1024 | 35.2175 | 2 | 35.2175 | 2 | 144.2 | 2 | 146.3 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 17 | 16 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 751.1 | 12.1297 | 35.5997 | 2 | 35.6014 | 2 | 158.9 | 2 | 157.3 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 18 | 17 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 602.4 | 15.221 | 36.0572 | 2 | 36.0658 | 2 | 182.1 | 2 | 177.4 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 19 | 18 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 451.6 | 17.5255 | 36.4341 | 2 | 36.4351 | 2 | 193 | 2 | 188.9 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 20 | 19 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 302.4 | 18.7867 | 36.6004 | 2 | 36.6014 | 2 | 202.3 | 2 | 200.2 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 21 | 20 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 183.1 | 20.7992 | 36.7904 | 2 | 36.789 | 2 | 207.3 | 2 | 203.4 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 22 | 21 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 108.8 | 22.614 | 36.8631 | 2 | 36.8618 | 2 | 214.2 | 2 | 212.7 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 23 | 22 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 54.6 | 23.7377 | 36.8438 | 2 | 36.8432 | 2 | 211.5 | 2 | 211 | 2 |
| 31WBTSOC | AB01 | 33 | 1 | 24 | 23 | 2 | 20010504 | 2241 | 26.5007 | -69.8323 | 5504 | 2.9 | 23.7214 | 36.8453 | 2 | 36.8438 | 2 | 208.4 | 2 | 210.9 | 2 |

Appendix C - Hydrographic - CTD Data

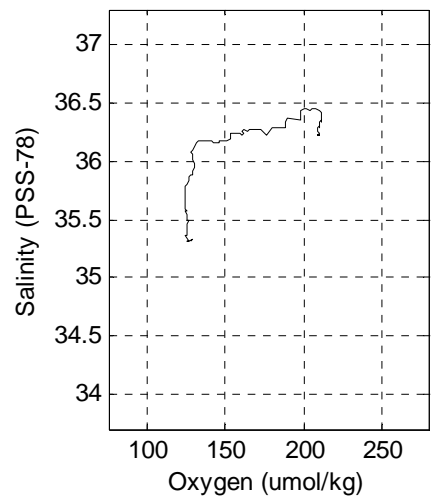
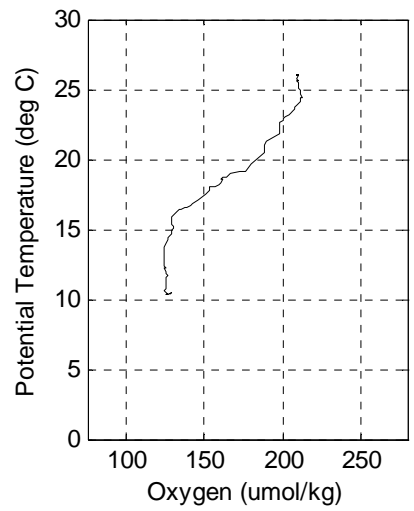
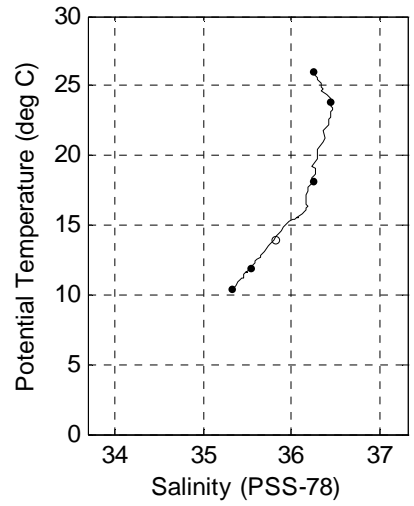
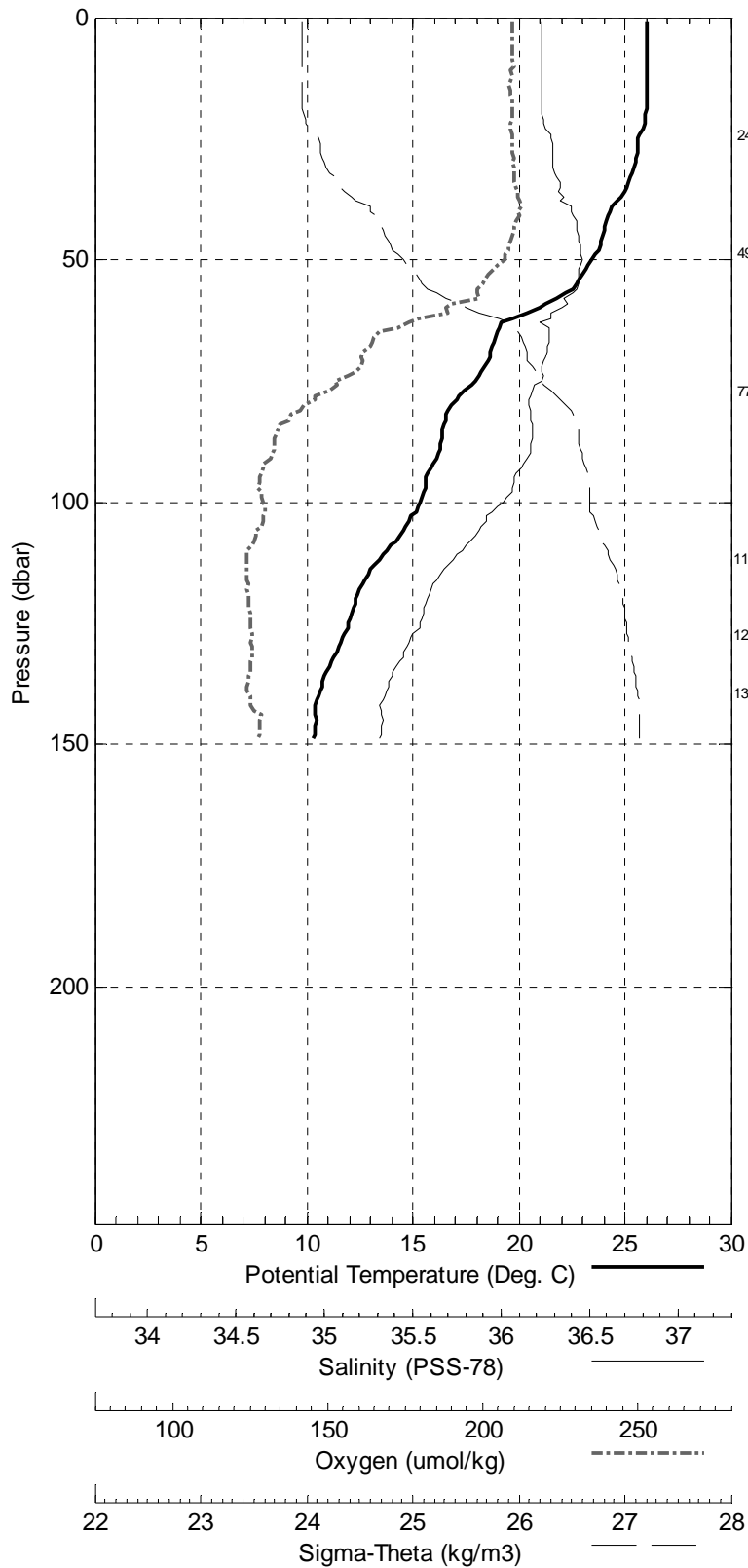
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ABACO-01 R.V. Oceanus
CTD Station 1 (CTD001)
Latitude 27.024N Longitude 79.919W
26-Apr-2001 20:31Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 26.019 | 26.018 | 36.228 | 209.6 | 0.004 | 23.954 |
| 10 | 26.020 | 26.017 | 36.229 | 210.2 | 0.039 | 23.955 |
| 20 | 25.987 | 25.983 | 36.234 | 209.8 | 0.079 | 23.970 |
| 30 | 25.497 | 25.490 | 36.298 | 209.7 | 0.117 | 24.172 |
| 50 | 23.451 | 23.440 | 36.456 | 207.0 | 0.185 | 24.910 |
| 75 | 18.003 | 17.990 | 36.233 | 152.7 | 0.243 | 26.220 |
| 100 | 15.361 | 15.345 | 36.007 | 129.3 | 0.280 | 26.672 |
| 125 | 11.994 | 11.978 | 35.537 | 125.2 | 0.311 | 27.011 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 140 | 24 | 10.433 | 10.416 | 35.320 | NaN |
| 127 | 1 | 11.874 | 11.858 | 35.532 | NaN |
| 112 | 3 | 13.927 | 13.911 | 35.826 | NaN |
| 77 | 4 | 18.088 | 18.075 | 36.249 | NaN |
| 49 | 6 | 23.865 | 23.855 | 36.441 | NaN |
| 25 | 13 | 25.998 | 25.992 | 36.240 | NaN |

Abaco 2001 R.V. Oceanus
 CTD Station 1 (CTD001)
 Latitude 27.024 N Longitude 79.919 W
 26-Apr-2001 20:31 Z

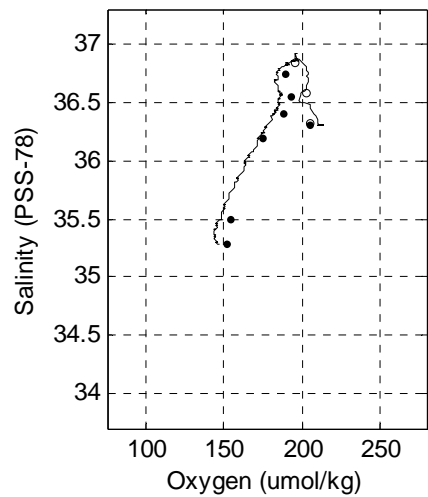
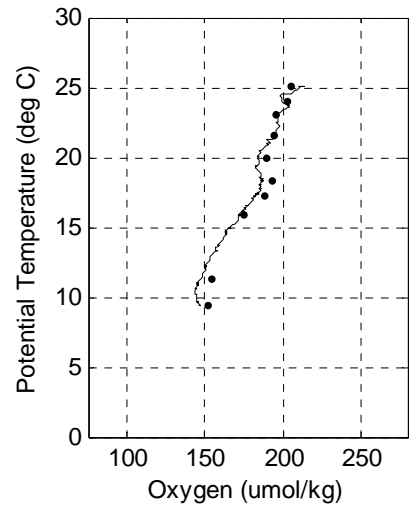
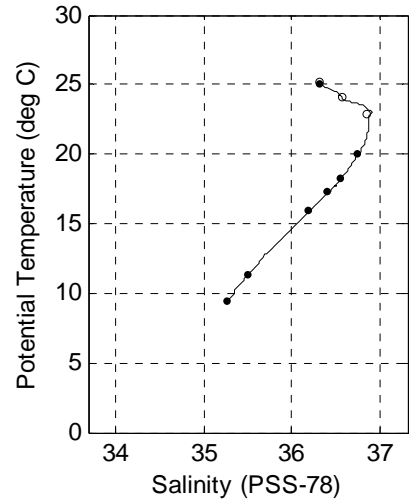
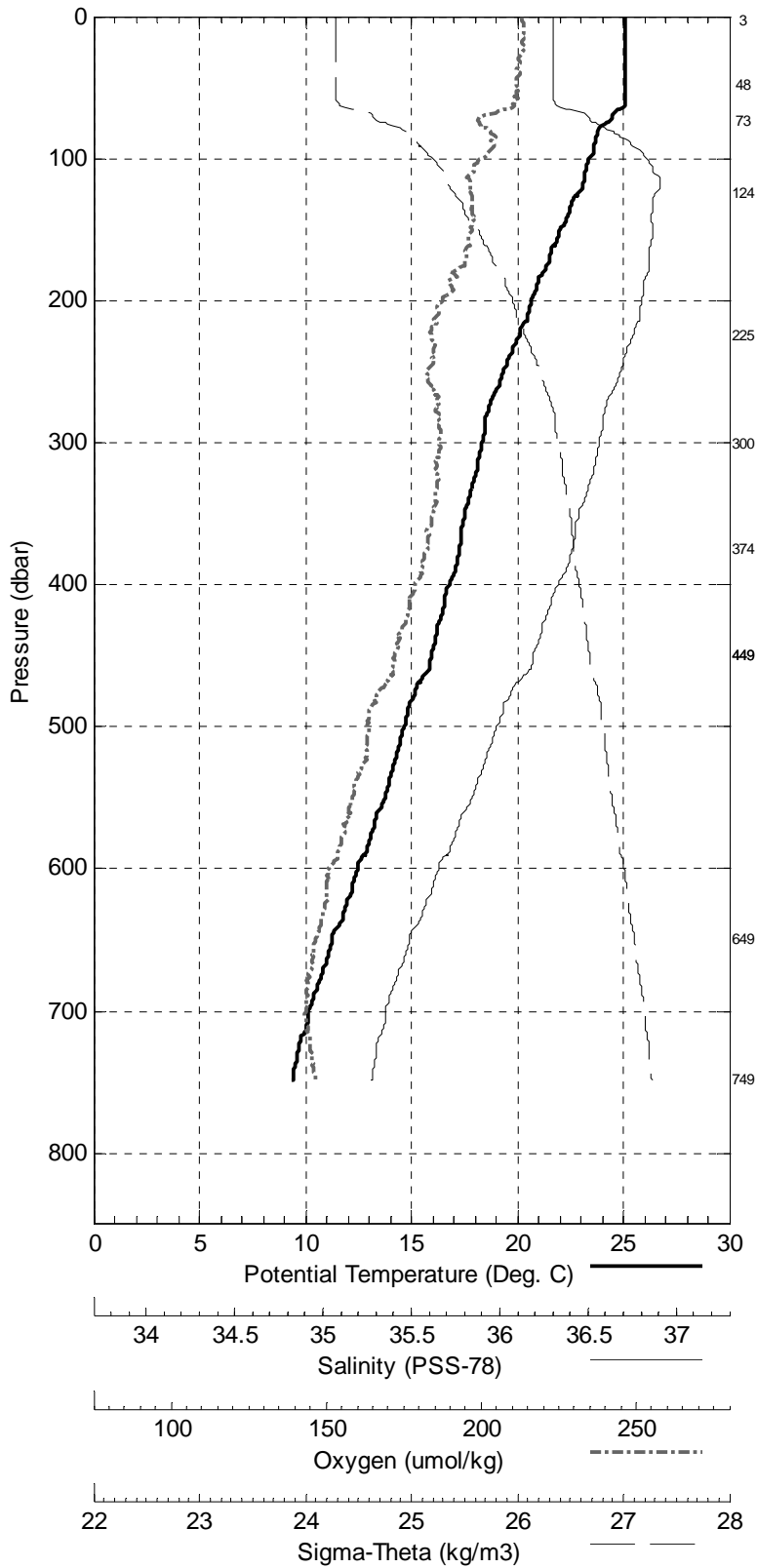


ABACO-01 R.V. Oceanus
CTD Station 2 (CTD002)
Latitude 26.442N Longitude 78.668W
26-Apr-2001 12:00Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m²/s² | SigTh kg/m³ |
|--------------------------|----------------------|------------------------|----------------------------|---------------------------|--|-----------------------------------|
| 1 | 25.109 | 25.109 | 36.304 | 213.3 | 0.004 | 24.294 |
| 10 | 25.111 | 25.109 | 36.304 | 213.7 | 0.036 | 24.294 |
| 20 | 25.124 | 25.120 | 36.305 | 213.5 | 0.073 | 24.291 |
| 30 | 25.129 | 25.123 | 36.305 | 211.9 | 0.109 | 24.291 |
| 50 | 25.135 | 25.124 | 36.306 | 211.9 | 0.182 | 24.291 |
| 75 | 24.197 | 24.181 | 36.547 | 199.2 | 0.269 | 24.759 |
| 100 | 23.423 | 23.403 | 36.838 | 200.4 | 0.343 | 25.211 |
| 125 | 22.850 | 22.824 | 36.877 | 196.9 | 0.411 | 25.409 |
| 150 | 22.038 | 22.008 | 36.866 | 197.0 | 0.474 | 25.634 |
| 200 | 20.699 | 20.661 | 36.805 | 187.3 | 0.587 | 25.961 |
| 250 | 19.389 | 19.343 | 36.683 | 182.3 | 0.687 | 26.220 |
| 300 | 18.391 | 18.338 | 36.564 | 186.6 | 0.777 | 26.386 |
| 400 | 16.855 | 16.789 | 36.331 | 178.9 | 0.944 | 26.587 |
| 500 | 14.722 | 14.646 | 35.984 | 163.3 | 1.093 | 26.809 |
| 600 | 12.542 | 12.459 | 35.654 | 150.9 | 1.224 | 27.008 |
| 700 | 10.228 | 10.143 | 35.351 | 144.2 | 1.336 | 27.202 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|--------------------------|---------------|----------------------|------------------------|----------------------------|---------------------------|
| 749 | 24 | 9.475 | 9.388 | 35.275 | 152.0 |
| 650 | 1 | 11.449 | 11.365 | 35.498 | 154.4 |
| 450 | 3 | 15.989 | 15.916 | 36.183 | 175.6 |
| 450 | 3 | 15.989 | 15.916 | 36.184 | 175.6 |
| 375 | 4 | 17.308 | 17.245 | 36.402 | 188.1 |
| 301 | 5 | 18.280 | 18.227 | 36.548 | 193.6 |
| 225 | 6 | 20.026 | 19.983 | 36.745 | 190.0 |
| 125 | 13 | 22.965 | 22.940 | 36.840 | 196.1 |
| 74 | 14 | 24.049 | 24.033 | 36.576 | 203.1 |
| 49 | 15 | 25.135 | 25.124 | 36.320 | 205.0 |
| 4 | 16 | 25.111 | 25.110 | 36.309 | 205.6 |

Abaco 2001 R.V. Oceanus
 CTD Station 2 (CTD002)
 Latitude 26.442 N Longitude 78.668 W
 26-Apr-2001 12:00 Z

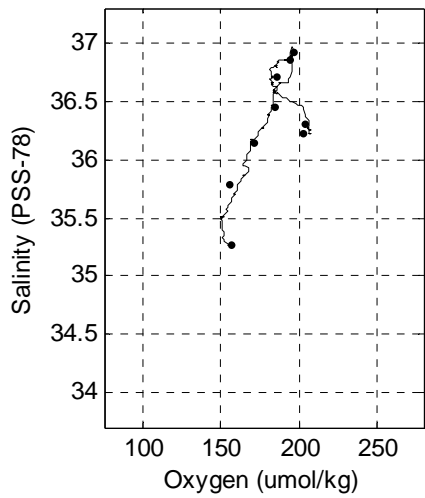
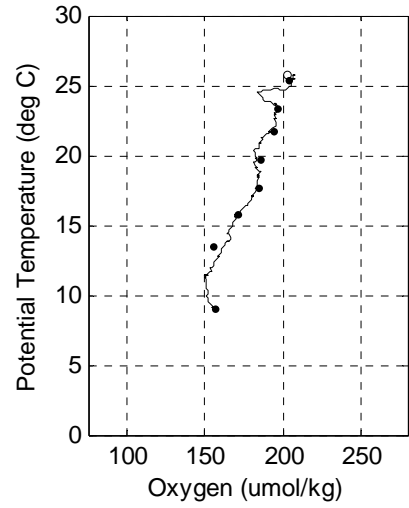
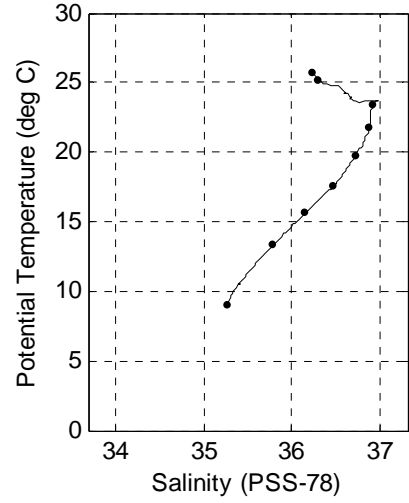
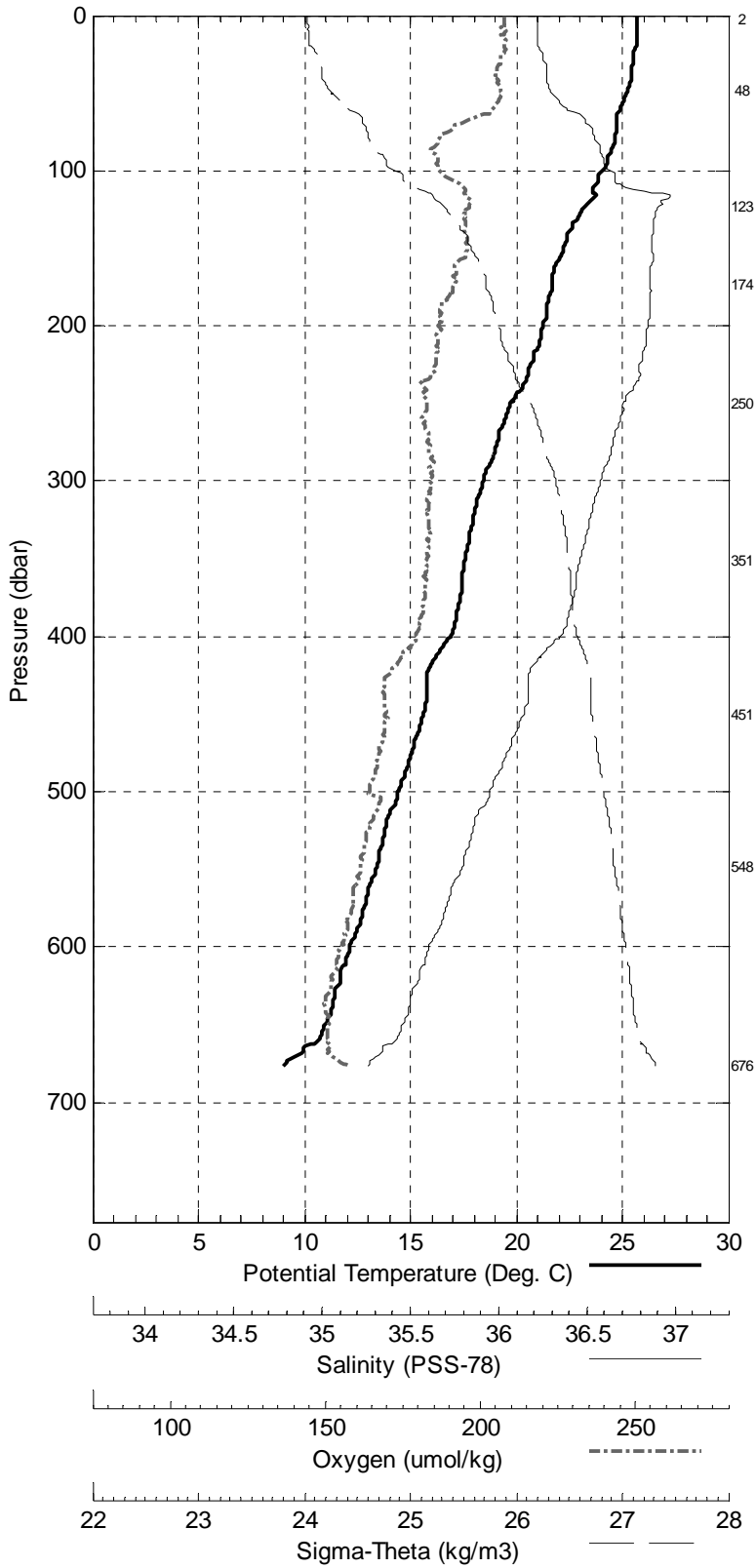


ABACO-01 R.V. Oceanus
CTD Station 3 (CTD003)
Latitude 26.325N Longitude 78.713W
27-Apr-2001 13:21Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 25.735 | 25.735 | 36.217 | 208.0 | 0.004 | 24.035 |
| 10 | 25.740 | 25.737 | 36.219 | 208.4 | 0.039 | 24.035 |
| 20 | 25.670 | 25.665 | 36.224 | 208.0 | 0.077 | 24.061 |
| 30 | 25.522 | 25.516 | 36.258 | 206.7 | 0.115 | 24.134 |
| 50 | 25.227 | 25.216 | 36.299 | 207.1 | 0.190 | 24.257 |
| 75 | 24.719 | 24.703 | 36.537 | 189.5 | 0.277 | 24.594 |
| 100 | 24.093 | 24.071 | 36.642 | 187.0 | 0.359 | 24.863 |
| 125 | 23.115 | 23.089 | 36.894 | 195.4 | 0.431 | 25.345 |
| 150 | 22.261 | 22.231 | 36.867 | 196.0 | 0.495 | 25.572 |
| 200 | 21.286 | 21.247 | 36.845 | 186.6 | 0.612 | 25.831 |
| 250 | 19.762 | 19.716 | 36.702 | 183.0 | 0.718 | 26.136 |
| 300 | 18.496 | 18.443 | 36.578 | 183.5 | 0.811 | 26.370 |
| 400 | 16.944 | 16.877 | 36.346 | 179.6 | 0.978 | 26.577 |
| 500 | 14.504 | 14.429 | 35.948 | 164.2 | 1.125 | 26.829 |
| 600 | 12.204 | 12.123 | 35.604 | 155.2 | 1.252 | 27.034 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|-----------|---------------|----------------|--------------------|-------------------|
| 676 | 24 | 9.099 | 9.022 | 35.268 | 156.9 |
| 548 | 1 | 13.420 | 13.341 | 35.776 | 156.0 |
| 451 | 2 | 15.710 | 15.638 | 36.138 | 170.9 |
| 352 | 3 | 17.617 | 17.556 | 36.453 | 185.4 |
| 251 | 4 | 19.750 | 19.704 | 36.711 | 186.1 |
| 174 | 5 | 21.791 | 21.756 | 36.854 | 194.6 |
| 124 | 6 | 23.398 | 23.373 | 36.914 | 197.5 |
| 49 | 12 | 25.246 | 25.235 | 36.298 | 203.6 |
| 3 | 13 | 25.731 | 25.731 | 36.220 | 203.5 |

Abaco 2001 R.V. Oceanus
CTD Station 3 (CTD003)
 Latitude 26.325 N Longitude 78.713 W
 27-Apr-2001 13:21 Z

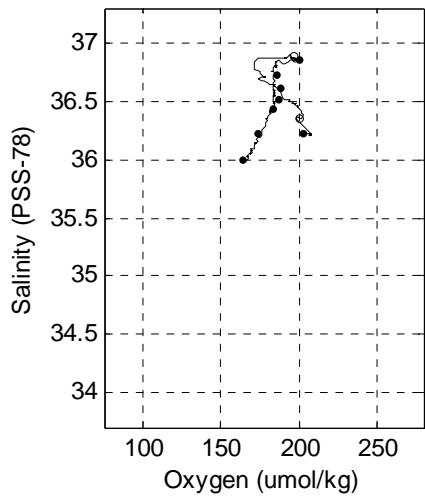
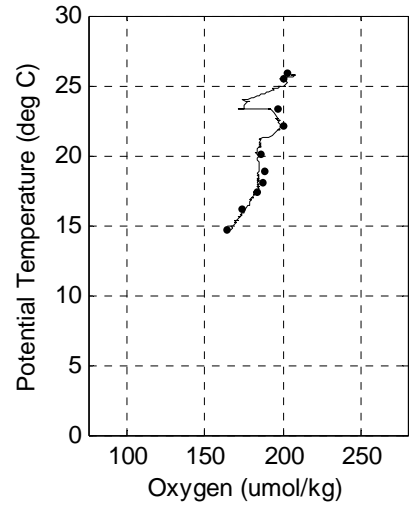
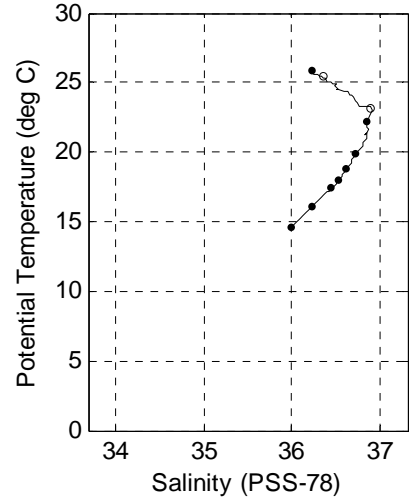
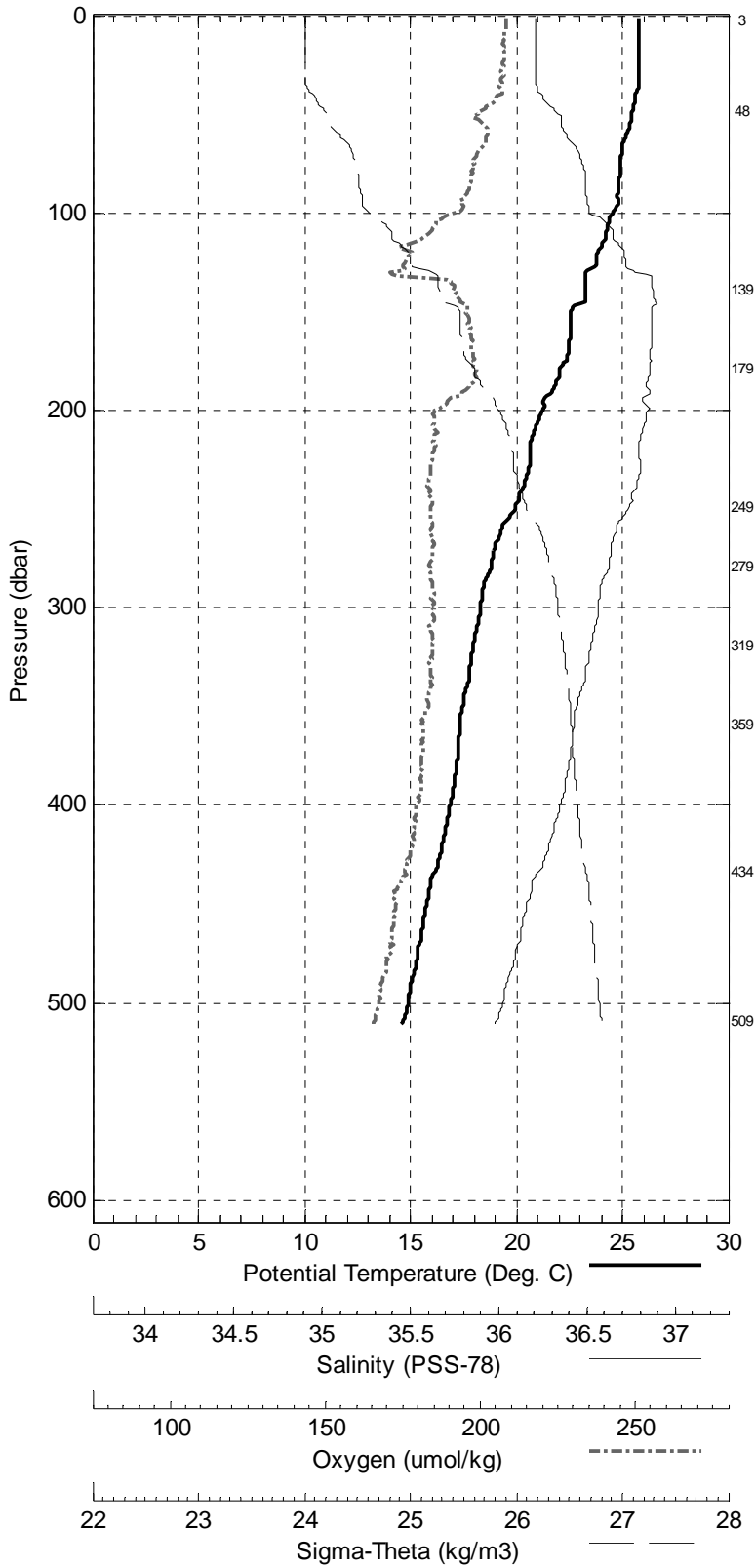


ABACO-01 R.V. Oceanus
CTD Station 4 (CTD004)
Latitude 26.240N Longitude 78.772W
27-Apr-2001 14:30Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 25.813 | 25.812 | 36.212 | 208.2 | 0.004 | 24.007 |
| 10 | 25.814 | 25.812 | 36.213 | 207.5 | 0.039 | 24.008 |
| 20 | 25.814 | 25.810 | 36.213 | 207.6 | 0.078 | 24.008 |
| 30 | 25.817 | 25.810 | 36.213 | 207.6 | 0.117 | 24.008 |
| 50 | 25.457 | 25.446 | 36.339 | 199.3 | 0.194 | 24.216 |
| 75 | 24.929 | 24.913 | 36.474 | 198.3 | 0.283 | 24.482 |
| 100 | 24.578 | 24.556 | 36.509 | 191.3 | 0.369 | 24.617 |
| 125 | 23.795 | 23.769 | 36.717 | 175.5 | 0.448 | 25.011 |
| 150 | 22.636 | 22.606 | 36.866 | 195.8 | 0.516 | 25.464 |
| 200 | 21.261 | 21.222 | 36.845 | 185.2 | 0.640 | 25.838 |
| 250 | 19.988 | 19.941 | 36.736 | 184.0 | 0.745 | 26.103 |
| 300 | 18.371 | 18.318 | 36.566 | 184.1 | 0.837 | 26.392 |
| 400 | 16.943 | 16.877 | 36.348 | 179.2 | 1.002 | 26.579 |
| 500 | 14.983 | 14.906 | 36.025 | 167.6 | 1.152 | 26.783 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 510 | 24 | 14.725 | 14.648 | 35.987 | 164.3 |
| 434 | 1 | 16.199 | 16.128 | 36.217 | 174.2 |
| 359 | 2 | 17.473 | 17.412 | 36.430 | 183.9 |
| 319 | 3 | 18.022 | 17.966 | 36.514 | 186.9 |
| 280 | 4 | 18.864 | 18.814 | 36.616 | 188.6 |
| 250 | 5 | 19.961 | 19.915 | 36.725 | 186.2 |
| 180 | 6 | 22.196 | 22.160 | 36.852 | 200.3 |
| 139 | 12 | 23.177 | 23.148 | 36.885 | 196.9 |
| 49 | 13 | 25.468 | 25.458 | 36.354 | 200.3 |
| 3 | 14 | 25.816 | 25.815 | 36.216 | 203.5 |

Abaco 2001 R.V. Oceanus
 CTD Station 4 (CTD004)
 Latitude 26.240 N Longitude 78.772 W
 27-Apr-2001 14:30 Z

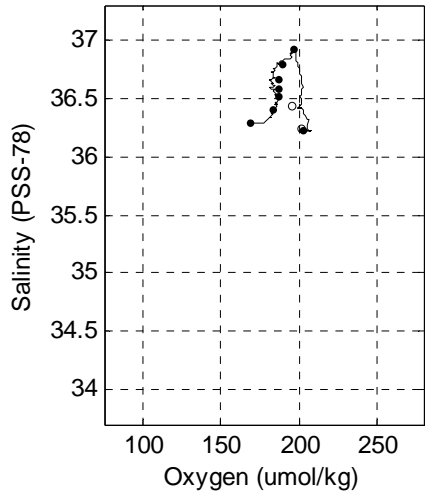
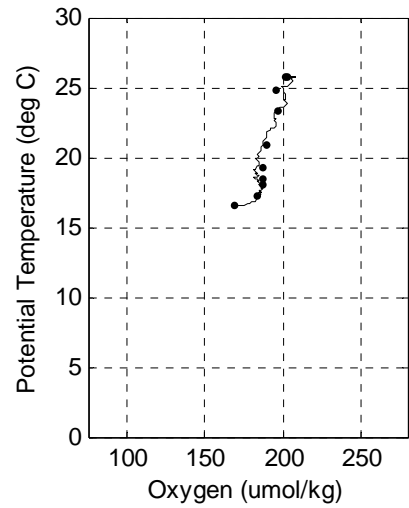
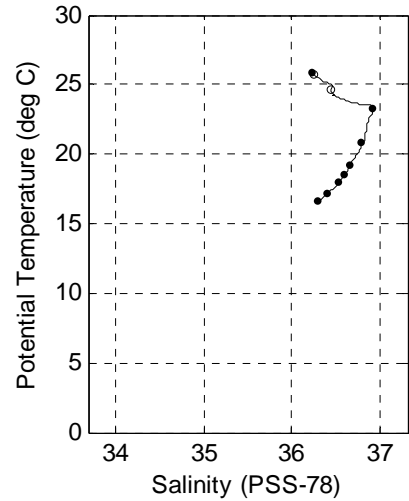
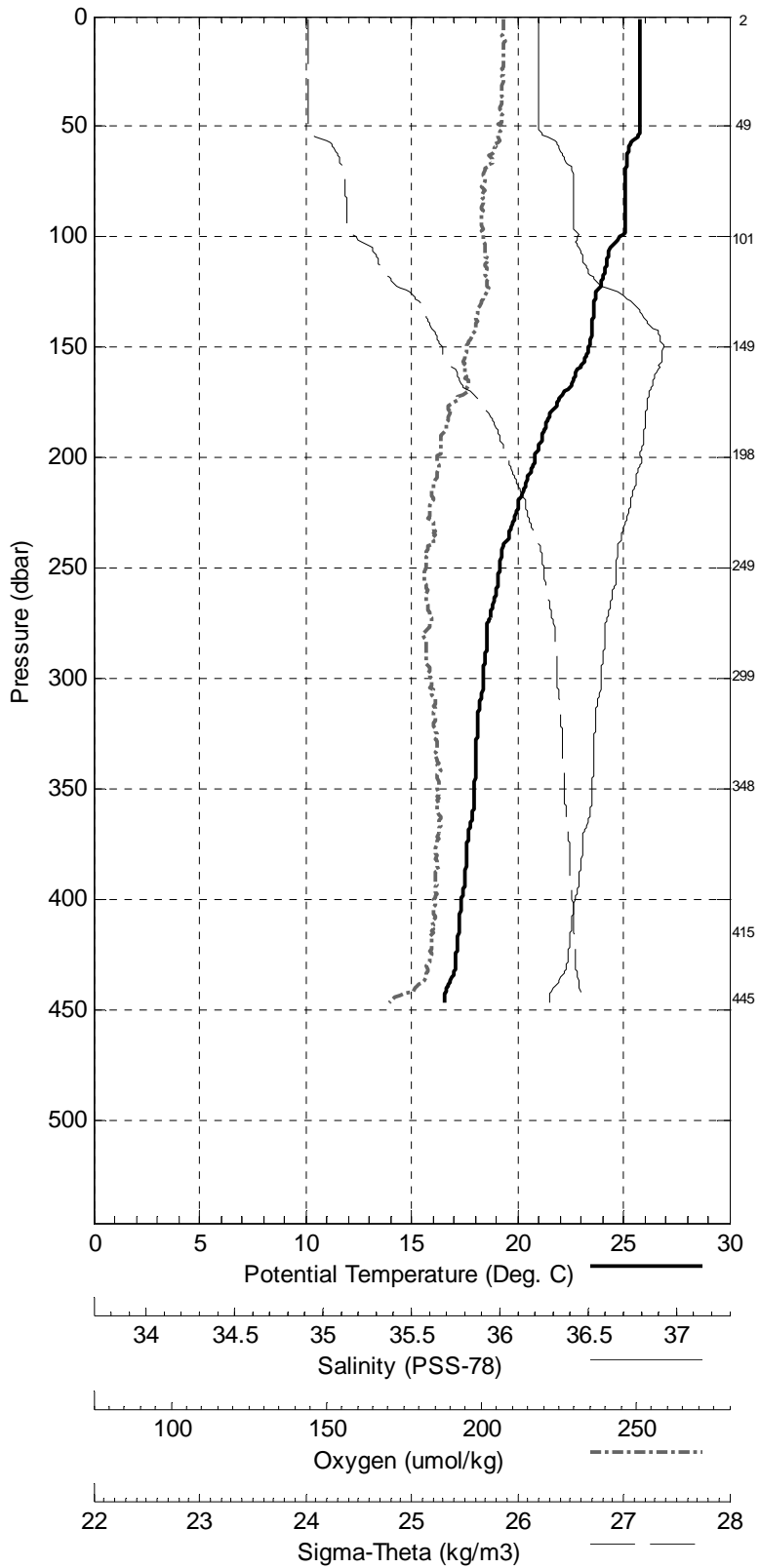


ABACO-01 R.V. Oceanus
CTD Station 5 (CTD005)
Latitude 26.161N Longitude 78.806W
27-Apr-2001 15:44Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 25.789 | 25.789 | 36.221 | 207.2 | 0.004 | 24.021 |
| 10 | 25.788 | 25.786 | 36.222 | 207.2 | 0.039 | 24.022 |
| 20 | 25.787 | 25.783 | 36.221 | 207.0 | 0.078 | 24.023 |
| 30 | 25.784 | 25.777 | 36.221 | 207.0 | 0.117 | 24.024 |
| 50 | 25.781 | 25.769 | 36.223 | 206.4 | 0.195 | 24.028 |
| 75 | 25.123 | 25.107 | 36.416 | 201.1 | 0.286 | 24.379 |
| 100 | 24.863 | 24.841 | 36.437 | 200.6 | 0.376 | 24.476 |
| 125 | 23.756 | 23.730 | 36.671 | 201.9 | 0.457 | 24.988 |
| 150 | 23.386 | 23.355 | 36.927 | 195.5 | 0.529 | 25.292 |
| 200 | 20.865 | 20.826 | 36.803 | 186.0 | 0.650 | 25.915 |
| 250 | 19.218 | 19.173 | 36.661 | 182.3 | 0.750 | 26.246 |
| 300 | 18.453 | 18.400 | 36.577 | 183.8 | 0.839 | 26.380 |
| 400 | 17.435 | 17.367 | 36.426 | 184.9 | 1.009 | 26.521 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 445 | 24 | 16.660 | 16.586 | 36.284 | 168.8 |
| 415 | 1 | 17.289 | 17.219 | 36.396 | 183.3 |
| 349 | 2 | 18.052 | 17.991 | 36.520 | 187.5 |
| 299 | 3 | 18.516 | 18.463 | 36.580 | 187.4 |
| 249 | 4 | 19.254 | 19.209 | 36.659 | 187.2 |
| 199 | 5 | 20.838 | 20.800 | 36.786 | 190.1 |
| 150 | 6 | 23.349 | 23.318 | 36.914 | 196.3 |
| 101 | 12 | 24.649 | 24.627 | 36.437 | 196.1 |
| 50 | 13 | 25.775 | 25.764 | 36.236 | 202.3 |
| 2 | 14 | 25.804 | 25.804 | 36.221 | 202.7 |

Abaco 2001 R.V. Oceanus
 CTD Station 5 (CTD005)
 Latitude 26.161 N Longitude 78.806 W
 27-Apr-2001 15:44 Z

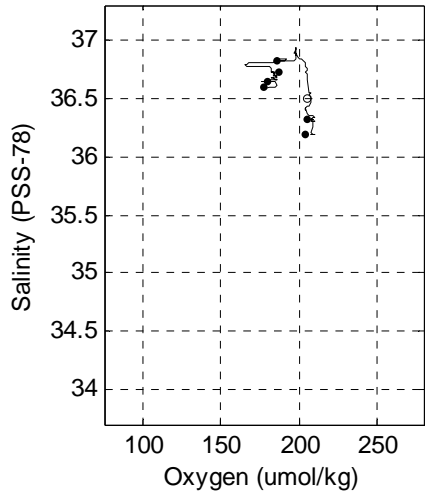
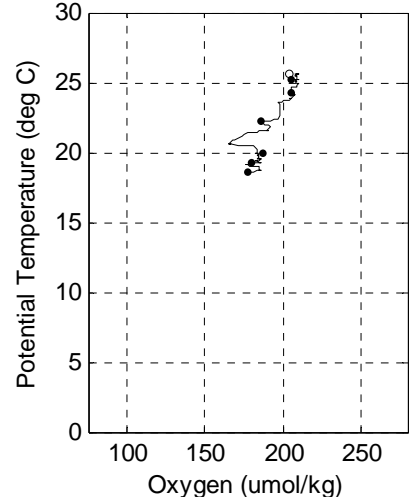
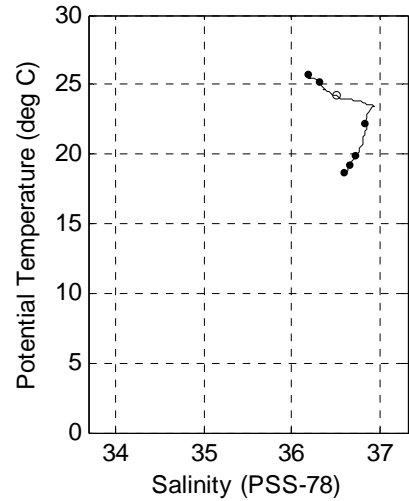
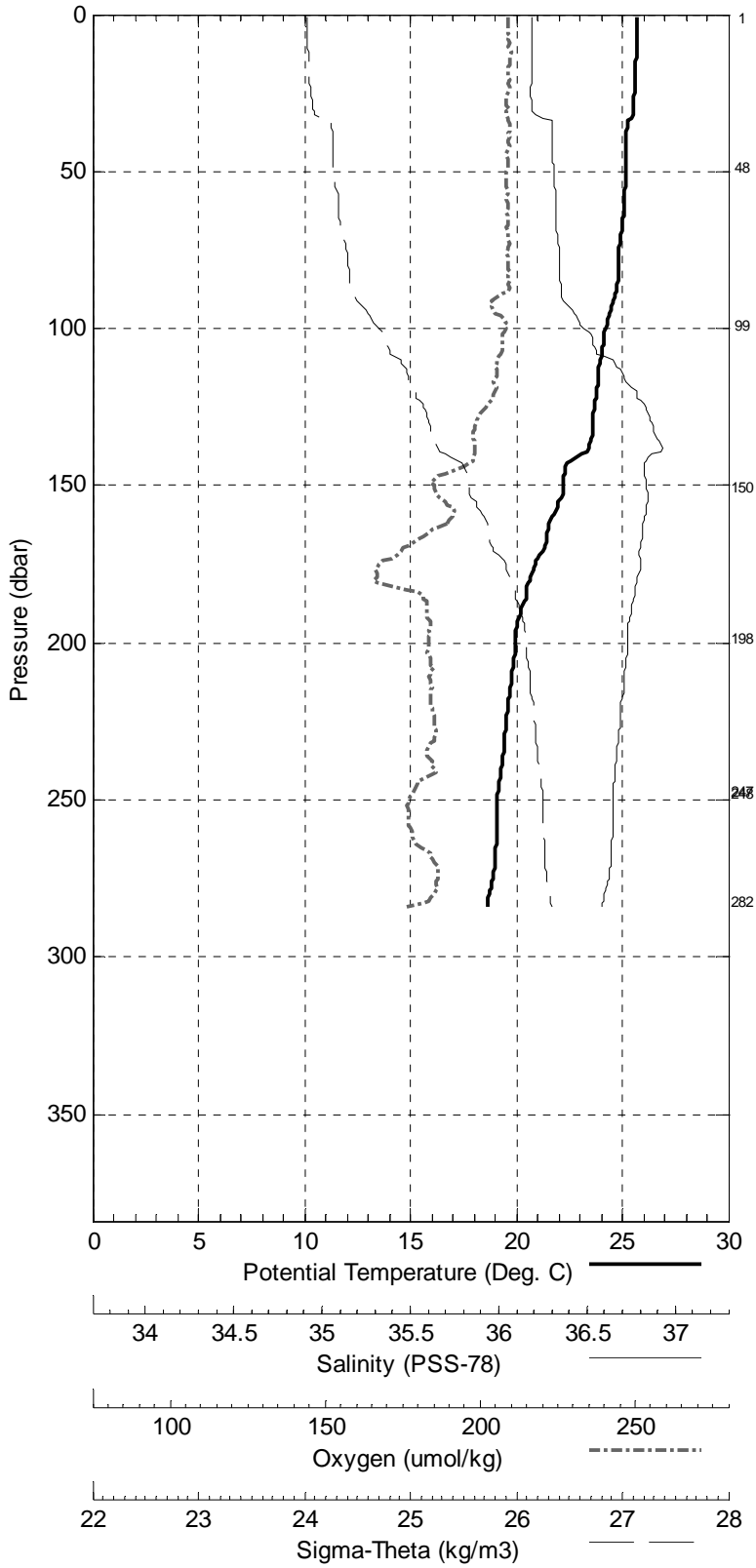


ABACO-01 R.V. Oceanus
CTD Station 6 (CTD006)
Latitude 26.065N Longitude 78.858W
27-Apr-2001 16:59Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 25.685 | 25.684 | 36.190 | 208.9 | 0.004 | 24.030 |
| 10 | 25.686 | 25.684 | 36.193 | 209.2 | 0.039 | 24.032 |
| 20 | 25.639 | 25.634 | 36.186 | 209.1 | 0.077 | 24.043 |
| 30 | 25.517 | 25.510 | 36.191 | 209.4 | 0.116 | 24.085 |
| 50 | 25.184 | 25.173 | 36.310 | 208.5 | 0.190 | 24.279 |
| 75 | 24.875 | 24.859 | 36.342 | 209.0 | 0.280 | 24.399 |
| 100 | 24.247 | 24.225 | 36.484 | 208.1 | 0.367 | 24.698 |
| 125 | 23.698 | 23.672 | 36.835 | 201.8 | 0.443 | 25.129 |
| 150 | 22.240 | 22.210 | 36.836 | 185.3 | 0.511 | 25.554 |
| 200 | 19.988 | 19.951 | 36.728 | 183.4 | 0.621 | 26.093 |
| 250 | 19.163 | 19.118 | 36.647 | 177.0 | 0.717 | 26.250 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 283 | 24 | 18.688 | 18.638 | 36.589 | 177.0 |
| 248 | 1 | 19.275 | 19.230 | 36.646 | 179.8 |
| 248 | 2 | 19.273 | 19.228 | 36.649 | 179.6 |
| 199 | 3 | 19.990 | 19.953 | 36.724 | 186.8 |
| 151 | 4 | 22.163 | 22.133 | 36.829 | 186.1 |
| 99 | 5 | 24.295 | 24.273 | 36.498 | 205.7 |
| 49 | 6 | 25.179 | 25.168 | 36.314 | 205.4 |
| 2 | 12 | 25.672 | 25.671 | 36.189 | 204.5 |

Abaco 2001 R.V. Oceanus
 CTD Station 6 (CTD006)
 Latitude 26.065 N Longitude 78.858 W
 27-Apr-2001 16:59 Z

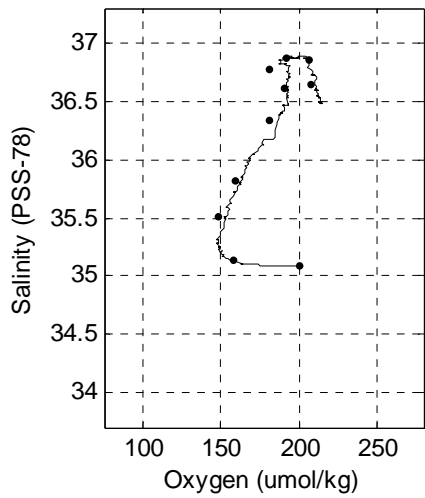
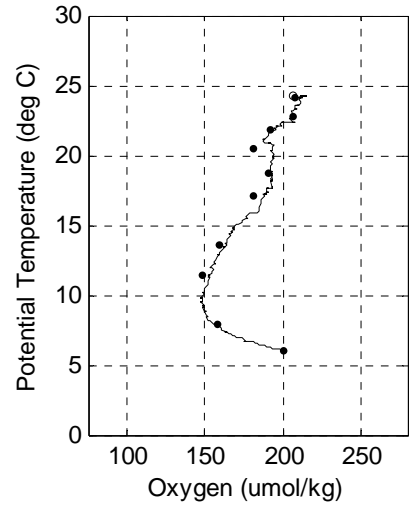
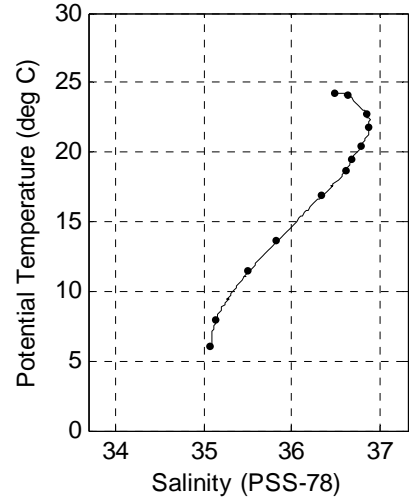
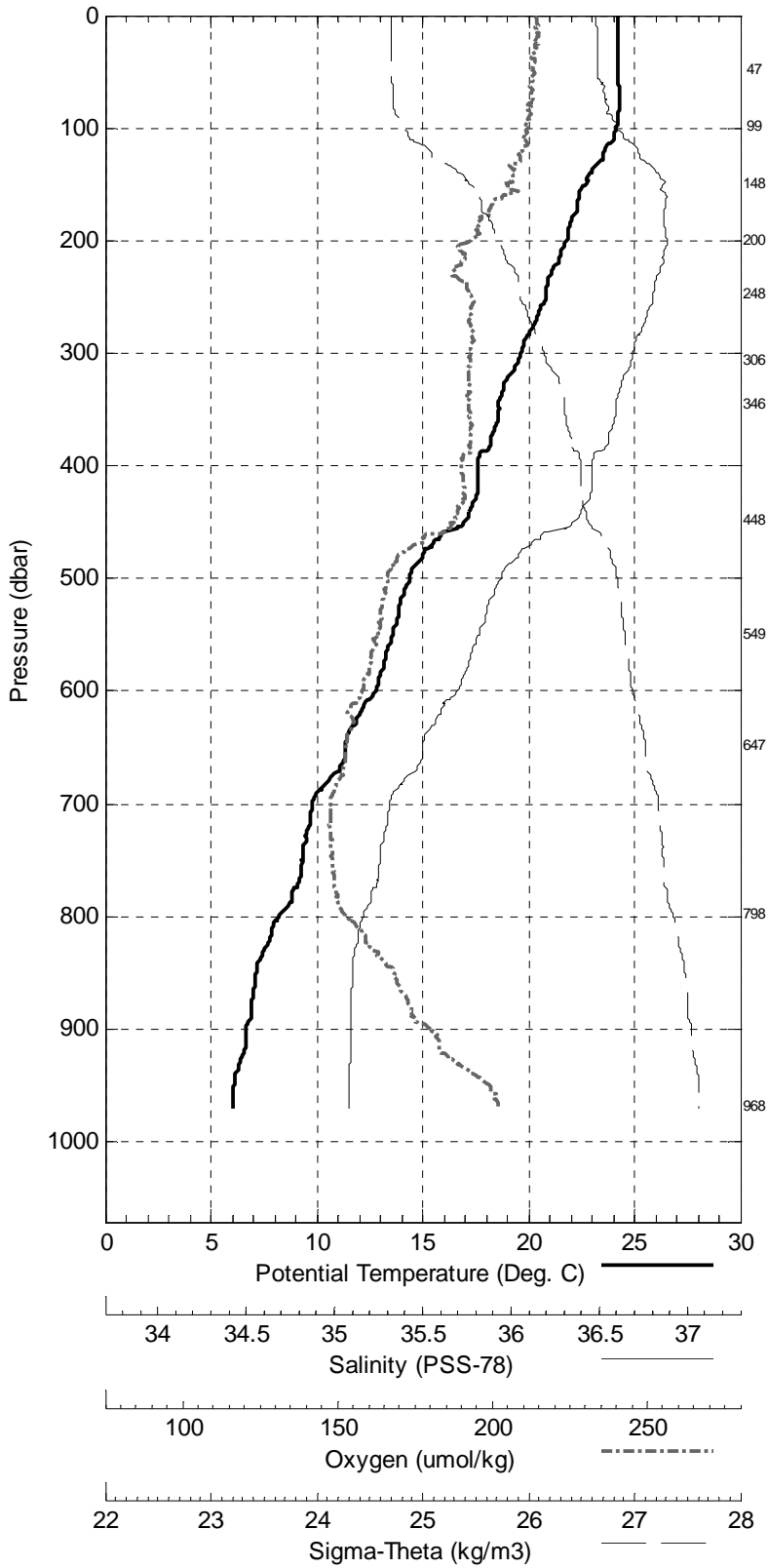


ABACO-01 R.V. Oceanus
CTD Station 7 (CTD007)
Latitude 26.501N Longitude 76.914W
28-Apr-2001 06:49Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.196 | 24.196 | 36.482 | 214.0 | 0.003 | 24.705 |
| 10 | 24.209 | 24.207 | 36.486 | 214.2 | 0.032 | 24.705 |
| 20 | 24.235 | 24.231 | 36.490 | 214.0 | 0.065 | 24.701 |
| 30 | 24.230 | 24.223 | 36.490 | 213.8 | 0.097 | 24.703 |
| 50 | 24.243 | 24.233 | 36.491 | 213.9 | 0.162 | 24.701 |
| 75 | 24.299 | 24.282 | 36.540 | 213.0 | 0.243 | 24.723 |
| 100 | 24.138 | 24.117 | 36.589 | 211.5 | 0.324 | 24.810 |
| 125 | 23.555 | 23.528 | 36.730 | 208.8 | 0.400 | 25.092 |
| 150 | 22.704 | 22.673 | 36.864 | 203.5 | 0.468 | 25.443 |
| 200 | 21.831 | 21.791 | 36.888 | 193.1 | 0.591 | 25.712 |
| 250 | 20.858 | 20.810 | 36.807 | 193.6 | 0.703 | 25.922 |
| 300 | 19.703 | 19.648 | 36.692 | 193.2 | 0.806 | 26.147 |
| 400 | 17.686 | 17.617 | 36.464 | 190.2 | 0.988 | 26.488 |
| 500 | 14.462 | 14.386 | 35.945 | 166.0 | 1.144 | 26.835 |
| 600 | 12.833 | 12.749 | 35.696 | 157.9 | 1.274 | 26.982 |
| 700 | 9.895 | 9.812 | 35.314 | 147.8 | 1.386 | 27.229 |
| 800 | 8.322 | 8.236 | 35.161 | 152.4 | 1.481 | 27.365 |
| 900 | 6.740 | 6.653 | 35.092 | 180.3 | 1.556 | 27.539 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 969 | 24 | 6.111 | 6.022 | 35.083 | 200.5 |
| 799 | 1 | 8.075 | 7.990 | 35.139 | 158.2 |
| 648 | 2 | 11.499 | 11.415 | 35.506 | 148.5 |
| 550 | 3 | 13.683 | 13.604 | 35.814 | 159.3 |
| 449 | 4 | 16.985 | 16.910 | 36.336 | 181.2 |
| 347 | 5 | 18.779 | 18.717 | 36.604 | 190.7 |
| 306 | 6 | 19.483 | 19.427 | 36.669 | NaN |
| 248 | 7 | 20.530 | 20.483 | 36.771 | 181.0 |
| 200 | 8 | 21.865 | 21.825 | 36.874 | 191.7 |
| 149 | 9 | 22.790 | 22.759 | 36.849 | 207.0 |
| 99 | 10 | 24.071 | 24.050 | 36.636 | 207.7 |
| 48 | 11 | 24.203 | 24.193 | 36.478 | NaN |

Abaco 2001 R.V. Oceanus
 CTD Station 7 (CTD007)
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 28-Apr-2001 06:49 Z

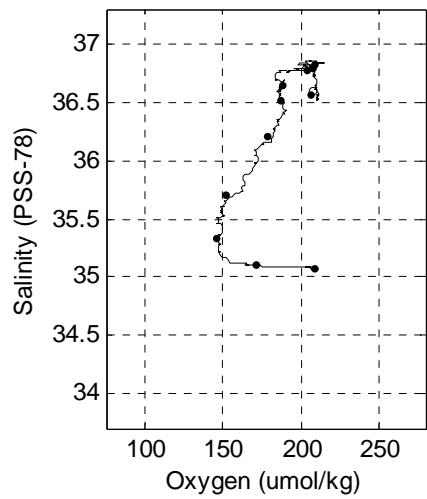
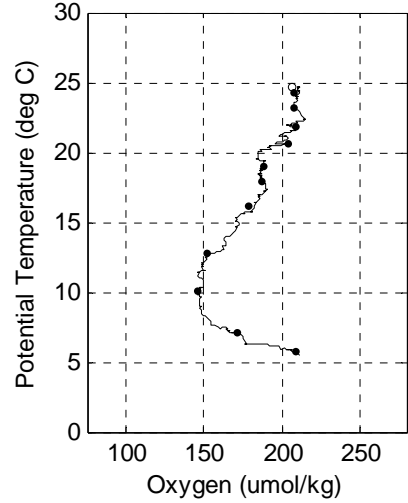
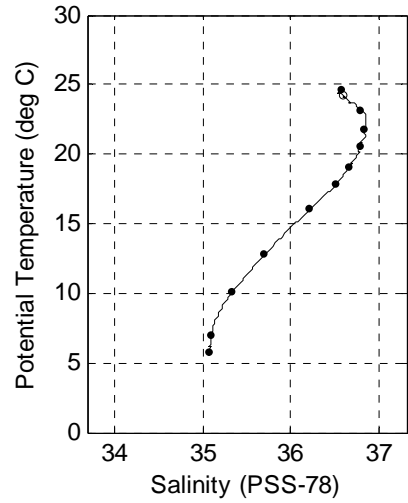
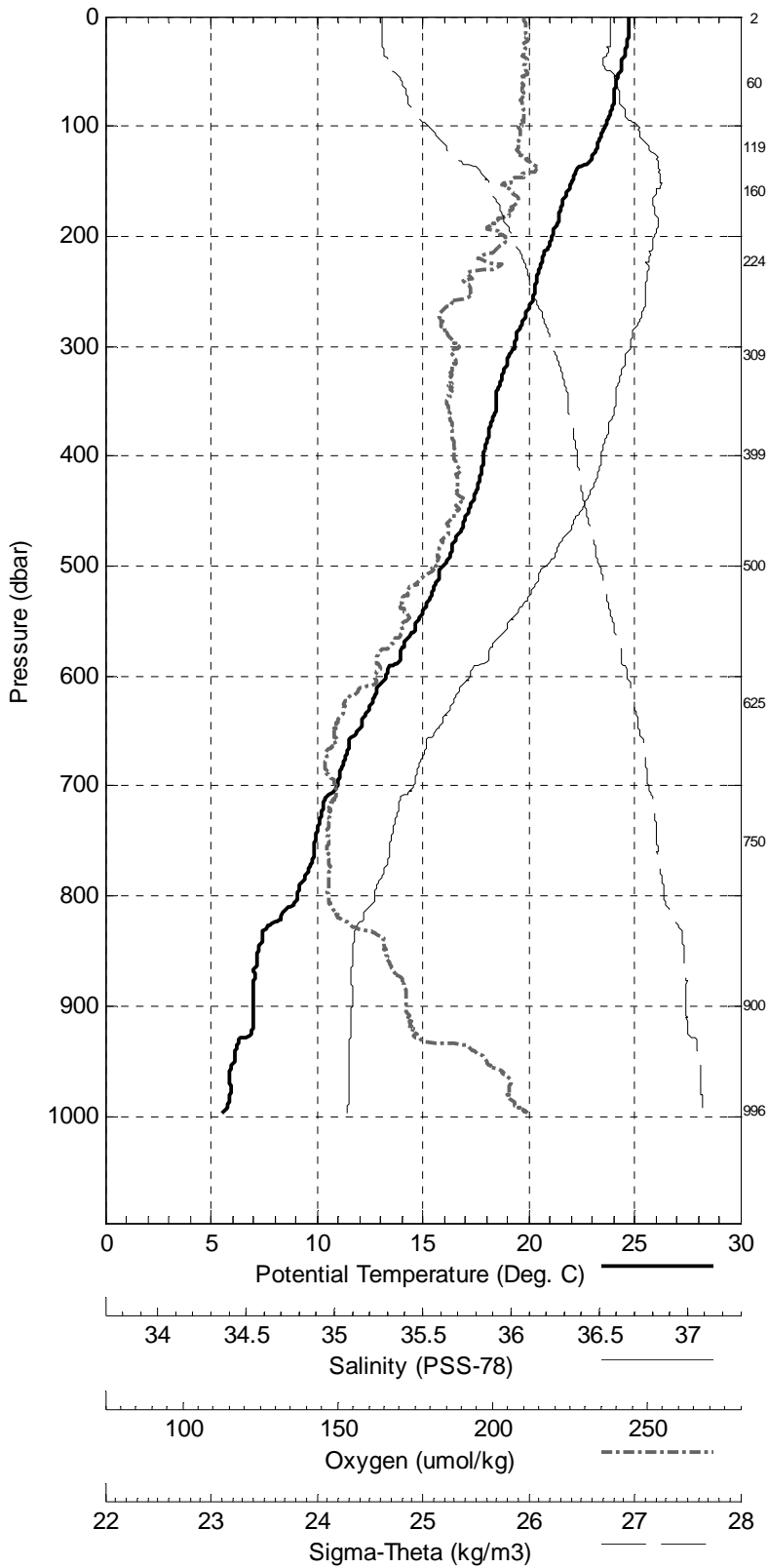


ABACO-01 R.V. Oceanus
CTD Station 8 (CTD008)
Latitude 26.512N Longitude 76.843W
28-Apr-2001 10:48Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.698 | 24.698 | 36.560 | 210.3 | 0.003 | 24.613 |
| 10 | 24.700 | 24.698 | 36.560 | 210.6 | 0.033 | 24.613 |
| 20 | 24.704 | 24.700 | 36.569 | 210.7 | 0.066 | 24.619 |
| 30 | 24.608 | 24.601 | 36.550 | 210.4 | 0.100 | 24.635 |
| 50 | 24.391 | 24.380 | 36.565 | 211.0 | 0.165 | 24.713 |
| 75 | 24.051 | 24.035 | 36.616 | 209.8 | 0.244 | 24.855 |
| 100 | 23.621 | 23.600 | 36.731 | 208.2 | 0.320 | 25.072 |
| 125 | 23.098 | 23.072 | 36.824 | 208.7 | 0.391 | 25.296 |
| 150 | 22.047 | 22.017 | 36.850 | 206.0 | 0.455 | 25.620 |
| 200 | 21.148 | 21.109 | 36.810 | 204.0 | 0.571 | 25.843 |
| 250 | 20.328 | 20.281 | 36.760 | 193.0 | 0.678 | 26.030 |
| 300 | 19.442 | 19.387 | 36.681 | 189.3 | 0.777 | 26.206 |
| 400 | 17.947 | 17.878 | 36.511 | 187.8 | 0.956 | 26.460 |
| 500 | 16.075 | 15.994 | 36.198 | 181.8 | 1.120 | 26.671 |
| 600 | 13.386 | 13.300 | 35.776 | 162.3 | 1.261 | 26.933 |
| 700 | 11.053 | 10.964 | 35.449 | 149.2 | 1.379 | 27.132 |
| 800 | 9.196 | 9.105 | 35.232 | 147.1 | 1.481 | 27.283 |
| 900 | 7.127 | 7.038 | 35.099 | 172.4 | 1.560 | 27.491 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 996 | 24 | 5.777 | 5.688 | 35.075 | 209.4 |
| 900 | 1 | 7.128 | 7.038 | 35.096 | 171.2 |
| 751 | 2 | 10.143 | 10.053 | 35.331 | 145.4 |
| 626 | 3 | 12.874 | 12.787 | 35.695 | 151.8 |
| 501 | 4 | 16.148 | 16.066 | 36.202 | 178.1 |
| 399 | 5 | 17.953 | 17.883 | 36.508 | 186.7 |
| 310 | 6 | 19.083 | 19.027 | 36.643 | 188.0 |
| 224 | 7 | 20.665 | 20.622 | 36.774 | 204.0 |
| 160 | 8 | 21.849 | 21.817 | 36.816 | 209.0 |
| 119 | 9 | 23.231 | 23.207 | 36.788 | 208.3 |
| 61 | 10 | 24.282 | 24.269 | 36.590 | 208.4 |
| 3 | 11 | 24.695 | 24.694 | 36.560 | 206.5 |

Abaco 2001 R.V. Oceanus
 CTD Station 8 (CTD008)
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 28-Apr-2001 10:48 Z

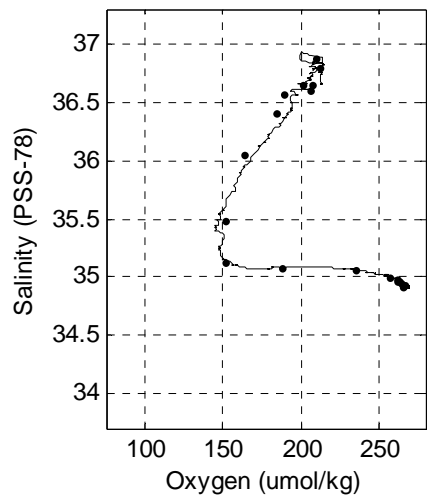
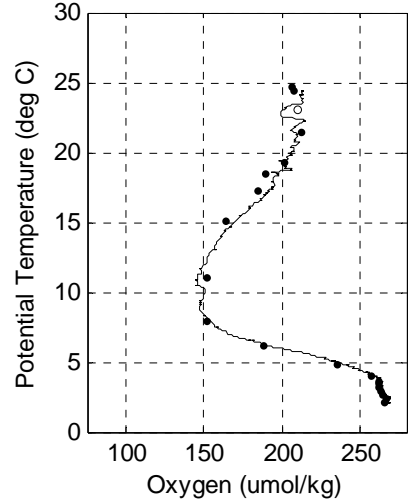
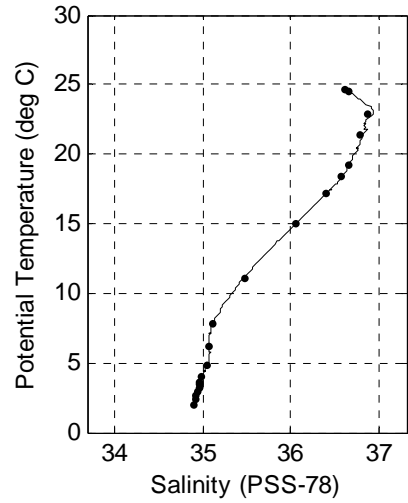
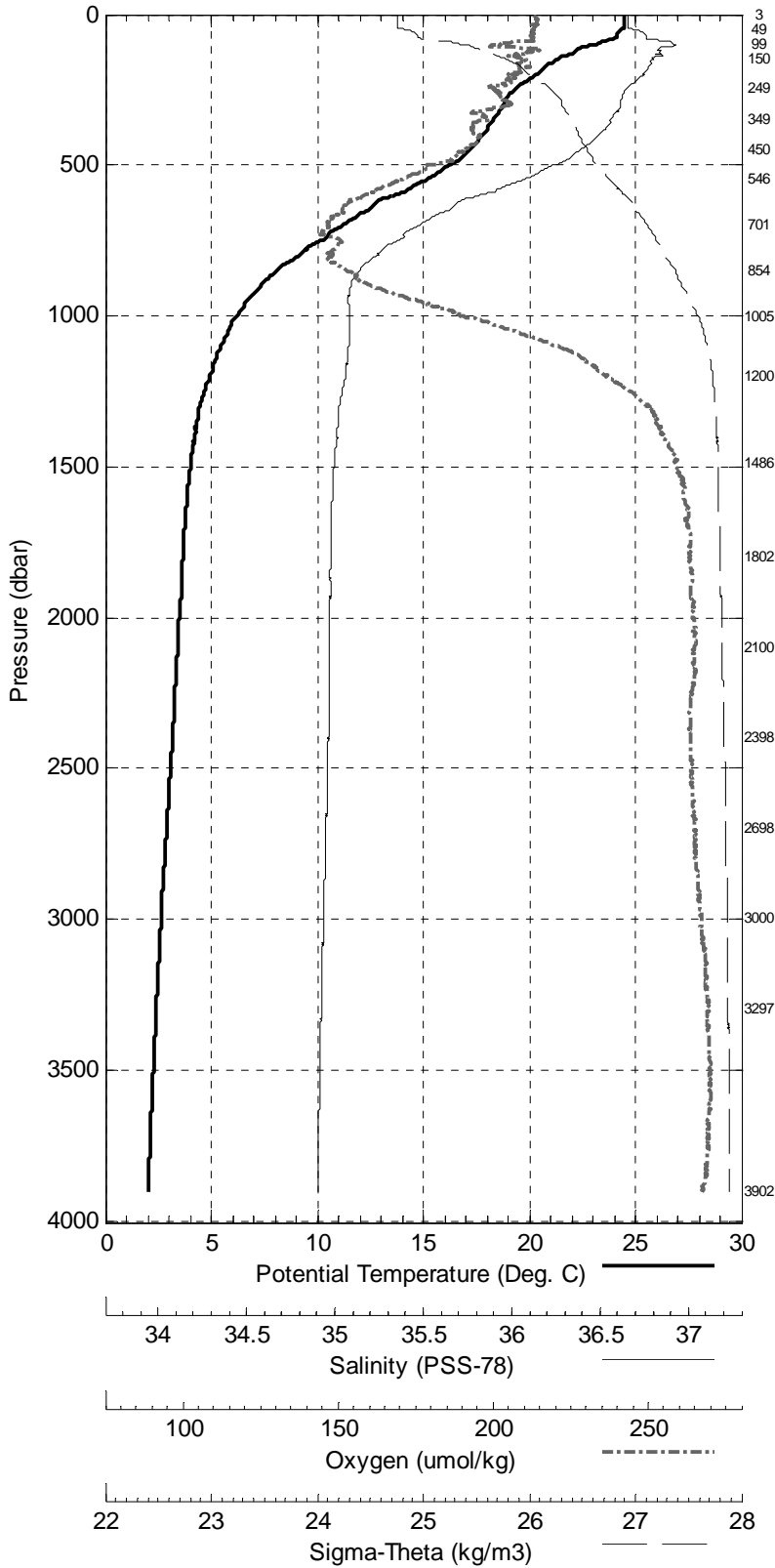


ABACO-01 R.V. Oceanus
CTD Station 9 (CTD009)
Latitude 26.507N Longitude 76.754W
28-Apr-2001 13:19Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.440 | 24.439 | 36.656 | 213.4 | 0.003 | 24.764 |
| 10 | 24.441 | 24.439 | 36.656 | 213.7 | 0.032 | 24.764 |
| 20 | 24.448 | 24.444 | 36.657 | 213.6 | 0.064 | 24.764 |
| 30 | 24.449 | 24.443 | 36.657 | 213.3 | 0.095 | 24.764 |
| 50 | 24.307 | 24.296 | 36.709 | 213.0 | 0.159 | 24.847 |
| 75 | 24.100 | 24.084 | 36.760 | 212.6 | 0.235 | 24.950 |
| 100 | 23.078 | 23.057 | 36.929 | 201.1 | 0.306 | 25.381 |
| 125 | 22.112 | 22.087 | 36.835 | 211.3 | 0.369 | 25.588 |
| 150 | 21.285 | 21.255 | 36.795 | 210.4 | 0.427 | 25.791 |
| 200 | 20.311 | 20.274 | 36.745 | 206.3 | 0.535 | 26.020 |
| 250 | 19.310 | 19.265 | 36.646 | 200.5 | 0.633 | 26.212 |
| 300 | 18.828 | 18.774 | 36.613 | 205.6 | 0.726 | 26.313 |
| 400 | 17.834 | 17.765 | 36.487 | 195.8 | 0.901 | 26.470 |
| 500 | 16.277 | 16.195 | 36.235 | 180.6 | 1.065 | 26.653 |
| 600 | 13.668 | 13.581 | 35.818 | 158.0 | 1.210 | 26.907 |
| 700 | 11.214 | 11.125 | 35.465 | 146.8 | 1.331 | 27.115 |
| 800 | 9.191 | 9.100 | 35.230 | 148.1 | 1.434 | 27.282 |
| 900 | 7.408 | 7.316 | 35.092 | 161.4 | 1.520 | 27.447 |
| 1000 | 6.293 | 6.199 | 35.078 | 190.1 | 1.591 | 27.589 |
| 1100 | 5.535 | 5.437 | 35.077 | 220.6 | 1.650 | 27.684 |
| 1200 | 5.032 | 4.929 | 35.058 | 237.0 | 1.703 | 27.730 |
| 1300 | 4.537 | 4.429 | 35.022 | 250.3 | 1.753 | 27.757 |
| 1400 | 4.336 | 4.221 | 35.013 | 255.7 | 1.800 | 27.773 |
| 1500 | 4.125 | 4.003 | 34.993 | 259.6 | 1.847 | 27.781 |
| 1750 | 3.857 | 3.715 | 34.980 | 263.6 | 1.963 | 27.799 |
| 2000 | 3.647 | 3.484 | 34.967 | 264.6 | 2.079 | 27.812 |
| 2500 | 3.281 | 3.076 | 34.959 | 263.9 | 2.309 | 27.845 |
| 3000 | 2.877 | 2.629 | 34.936 | 267.0 | 2.533 | 27.867 |
| 3500 | 2.557 | 2.263 | 34.915 | 269.9 | 2.753 | 27.882 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 3902 | 24 | 2.365 | 2.032 | 34.901 | 266.6 |
| 3297 | 2 | 2.677 | 2.403 | 34.923 | 267.0 |
| 3001 | 3 | 2.880 | 2.631 | 34.934 | 265.0 |
| 2698 | 4 | 3.115 | 2.893 | 34.949 | 263.2 |
| 2398 | 5 | 3.367 | 3.171 | 34.962 | 262.0 |
| 2101 | 6 | 3.619 | 3.448 | 34.970 | 261.9 |
| 1802 | 7 | 3.744 | 3.599 | 34.968 | 262.4 |
| 1487 | 8 | 4.059 | 3.940 | 34.985 | 257.8 |
| 1201 | 9 | 4.981 | 4.878 | 35.055 | 235.2 |
| 1005 | 10 | 6.275 | 6.181 | 35.078 | 188.5 |
| 854 | 11 | 7.906 | 7.816 | 35.114 | 151.7 |
| 702 | 12 | 11.149 | 11.059 | 35.470 | 151.5 |
| 546 | 13 | 15.138 | 15.053 | 36.047 | 164.7 |
| 451 | 14 | 17.305 | 17.229 | 36.399 | 184.6 |
| 350 | 15 | 18.449 | 18.387 | 36.569 | 189.3 |
| 250 | 16 | 19.301 | 19.255 | 36.648 | 202.2 |
| 150 | 17 | 21.363 | 21.333 | 36.784 | 213.0 |
| 100 | 18 | 22.943 | 22.923 | 36.870 | 210.8 |
| 49 | 19 | 24.551 | 24.540 | 36.642 | 207.7 |
| 3 | 20 | 24.645 | 24.644 | 36.602 | 207.0 |

Abaco 2001 R.V. Oceanus
 CTD Station 9 (CTD009)
 Latitude 26.507 N Longitude 76.754 W
 28-Apr-2001 13:19 Z

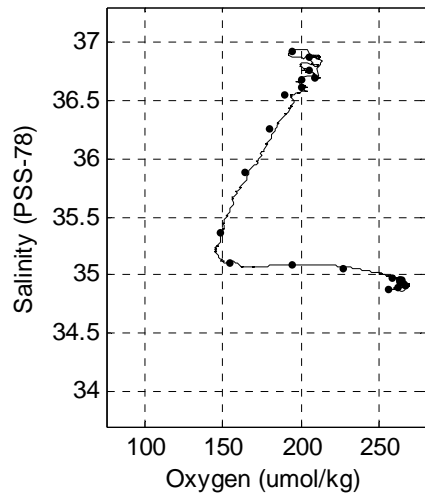
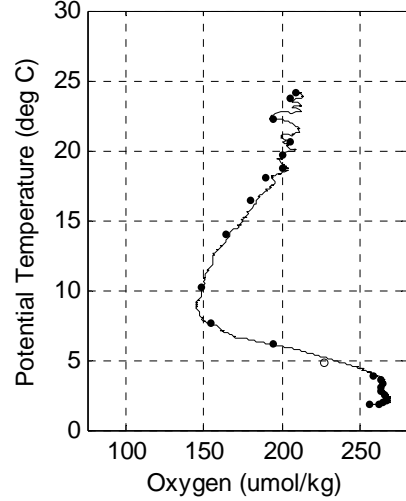
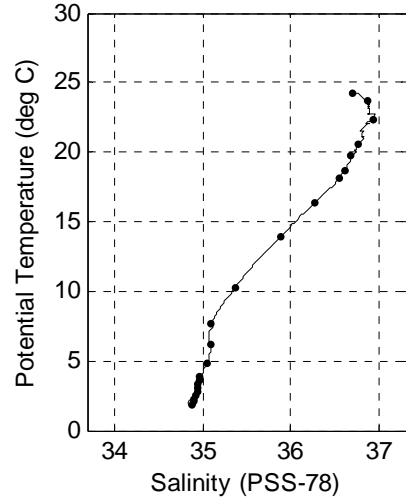
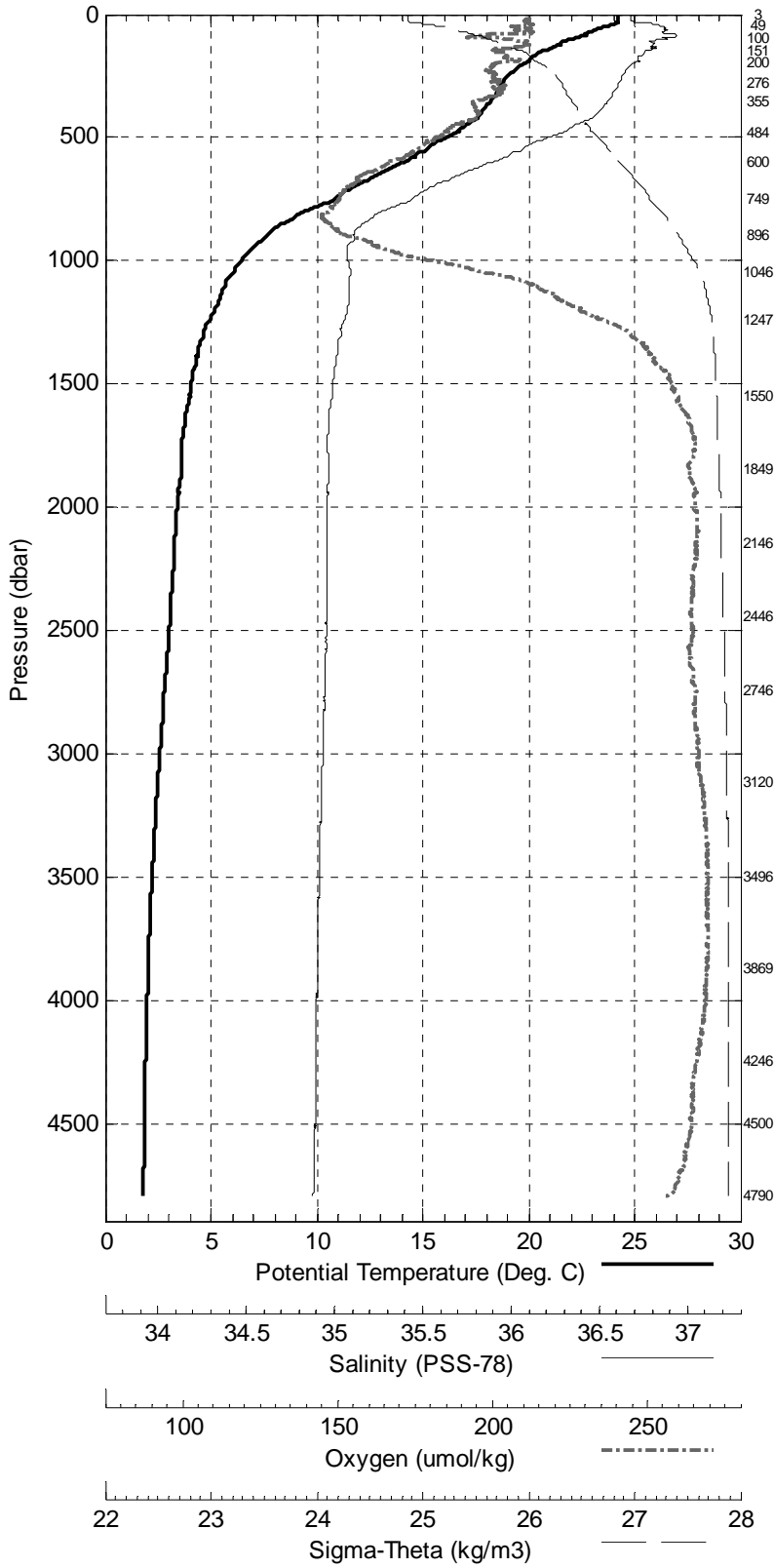


ABACO-01 R.V. Oceanus
 CTD Station 10 (CTD010)
 Latitude 26.513N Longitude 76.614W
 28-Apr-2001 17:09Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.183 | 24.182 | 36.684 | 211.4 | 0.003 | 24.862 |
| 10 | 24.179 | 24.177 | 36.685 | 211.7 | 0.031 | 24.865 |
| 20 | 24.168 | 24.164 | 36.684 | 210.8 | 0.062 | 24.868 |
| 30 | 24.174 | 24.168 | 36.703 | 210.9 | 0.092 | 24.882 |
| 50 | 23.488 | 23.478 | 36.866 | 206.2 | 0.151 | 25.210 |
| 75 | 22.746 | 22.730 | 36.870 | 212.7 | 0.218 | 25.431 |
| 100 | 22.077 | 22.057 | 36.873 | 205.7 | 0.280 | 25.625 |
| 125 | 21.371 | 21.346 | 36.802 | 211.3 | 0.338 | 25.771 |
| 150 | 20.597 | 20.568 | 36.756 | 200.0 | 0.392 | 25.949 |
| 200 | 19.784 | 19.747 | 36.690 | 199.7 | 0.494 | 26.119 |
| 250 | 19.022 | 18.977 | 36.624 | 200.7 | 0.589 | 26.269 |
| 300 | 18.697 | 18.644 | 36.599 | 200.8 | 0.680 | 26.335 |
| 400 | 17.827 | 17.758 | 36.488 | 195.7 | 0.854 | 26.473 |
| 500 | 16.107 | 16.026 | 36.200 | 181.4 | 1.017 | 26.665 |
| 600 | 14.175 | 14.086 | 35.893 | 166.1 | 1.162 | 26.859 |
| 700 | 11.756 | 11.663 | 35.541 | 153.5 | 1.289 | 27.074 |
| 800 | 9.465 | 9.373 | 35.260 | 147.3 | 1.397 | 27.261 |
| 900 | 7.679 | 7.586 | 35.112 | 153.7 | 1.486 | 27.424 |
| 1000 | 6.494 | 6.398 | 35.079 | 180.2 | 1.561 | 27.563 |
| 1100 | 5.749 | 5.649 | 35.084 | 213.7 | 1.623 | 27.663 |
| 1200 | 5.282 | 5.177 | 35.075 | 228.5 | 1.678 | 27.714 |
| 1300 | 4.760 | 4.650 | 35.038 | 244.7 | 1.729 | 27.745 |
| 1400 | 4.442 | 4.326 | 35.013 | 252.1 | 1.778 | 27.762 |
| 1500 | 4.202 | 4.079 | 34.991 | 257.9 | 1.826 | 27.771 |
| 1750 | 3.780 | 3.639 | 34.964 | 265.3 | 1.944 | 27.795 |
| 2000 | 3.595 | 3.433 | 34.962 | 264.8 | 2.059 | 27.814 |
| 2500 | 3.233 | 3.029 | 34.953 | 264.5 | 2.287 | 27.845 |
| 3000 | 2.830 | 2.583 | 34.933 | 266.8 | 2.509 | 27.869 |
| 3500 | 2.507 | 2.214 | 34.913 | 269.4 | 2.726 | 27.885 |
| 4000 | 2.336 | 1.993 | 34.900 | 268.6 | 2.942 | 27.892 |
| 4500 | 2.279 | 1.878 | 34.890 | 264.3 | 3.164 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4790 | 24 | 2.204 | 1.770 | 34.876 | 256.8 |
| 4500 | 1 | 2.277 | 1.877 | 34.892 | 263.0 |
| 4247 | 2 | 2.288 | 1.917 | 34.888 | 264.7 |
| 3870 | 3 | 2.370 | 2.040 | 34.902 | 266.9 |
| 3497 | 4 | 2.510 | 2.218 | 34.913 | 267.5 |
| 3120 | 5 | 2.741 | 2.483 | 34.927 | 265.9 |
| 2747 | 6 | 3.045 | 2.820 | 34.943 | 263.4 |
| 2447 | 7 | 3.256 | 3.057 | 34.952 | 263.1 |
| 2147 | 8 | 3.448 | 3.275 | 34.954 | 264.3 |
| 1850 | 9 | 3.697 | 3.549 | 34.960 | 264.0 |
| 1551 | 10 | 4.030 | 3.905 | 34.977 | 258.9 |
| 1247 | 11 | 4.980 | 4.873 | 35.050 | 226.7 |
| 1046 | 12 | 6.254 | 6.156 | 35.087 | 194.3 |
| 897 | 13 | 7.734 | 7.641 | 35.105 | 154.8 |
| 750 | 14 | 10.358 | 10.266 | 35.368 | 148.2 |
| 601 | 15 | 14.061 | 13.972 | 35.877 | 163.9 |
| 485 | 16 | 16.402 | 16.323 | 36.260 | 179.5 |
| 356 | 17 | 18.164 | 18.102 | 36.543 | 189.7 |
| 277 | 18 | 18.780 | 18.731 | 36.604 | 201.1 |
| 201 | 19 | 19.727 | 19.690 | 36.679 | 200.1 |
| 151 | 20 | 20.635 | 20.606 | 36.758 | 205.9 |
| 101 | 21 | 22.379 | 22.358 | 36.921 | 194.8 |
| 49 | 22 | 23.676 | 23.665 | 36.865 | 205.6 |
| 4 | 23 | 24.239 | 24.238 | 36.695 | 208.7 |

Abaco 2001 R.V. Oceanus
 CTD Station 10 (CTD010)
 Latitude 26.513 N Longitude 76.614 W
 28-Apr-2001 17:09 Z

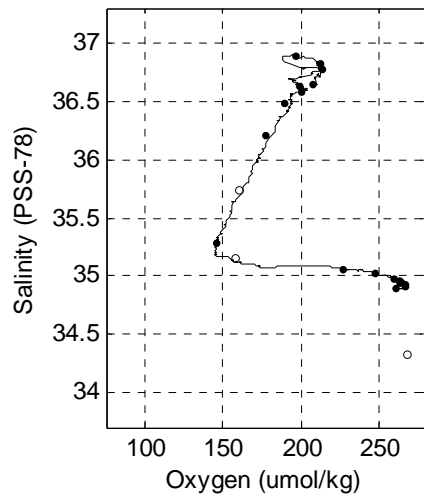
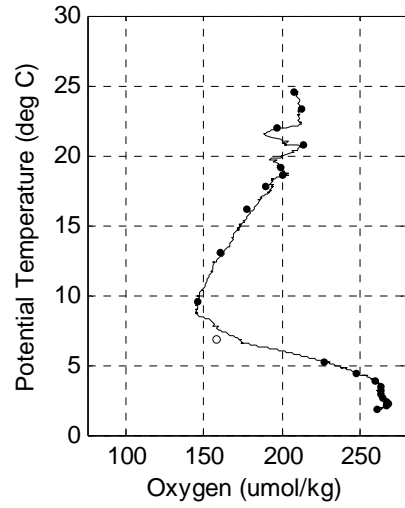
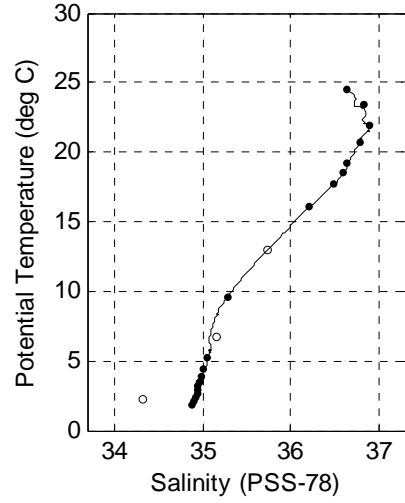
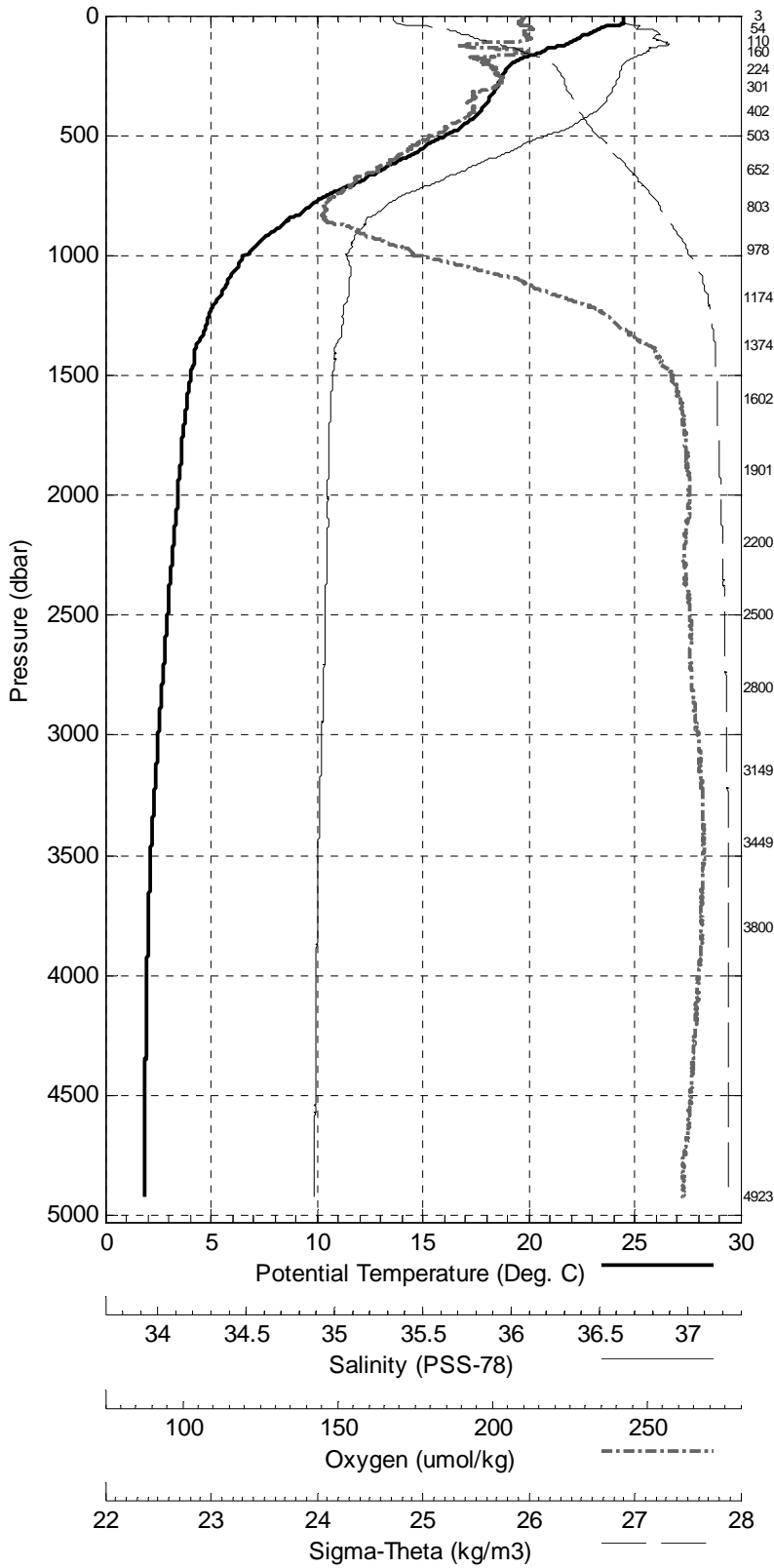


ABACO-01 R.V. Oceanus
 CTD Station 11 (CTD011)
 Latitude 26.527N Longitude 76.492W
 28-Apr-2001 23:55Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.518 | 24.518 | 36.637 | 209.5 | 0.003 | 24.726 |
| 10 | 24.516 | 24.514 | 36.638 | 209.9 | 0.032 | 24.728 |
| 20 | 24.515 | 24.511 | 36.640 | 209.5 | 0.064 | 24.730 |
| 30 | 24.448 | 24.441 | 36.643 | 208.8 | 0.096 | 24.753 |
| 50 | 23.405 | 23.395 | 36.716 | 212.3 | 0.158 | 25.120 |
| 75 | 22.920 | 22.905 | 36.842 | 211.0 | 0.226 | 25.359 |
| 100 | 22.238 | 22.218 | 36.831 | 211.5 | 0.290 | 25.548 |
| 125 | 21.661 | 21.636 | 36.883 | 189.1 | 0.349 | 25.752 |
| 150 | 20.680 | 20.651 | 36.773 | 211.2 | 0.404 | 25.940 |
| 200 | 19.214 | 19.178 | 36.635 | 197.1 | 0.502 | 26.226 |
| 250 | 18.825 | 18.780 | 36.614 | 202.3 | 0.593 | 26.312 |
| 300 | 18.557 | 18.504 | 36.581 | 200.3 | 0.683 | 26.357 |
| 400 | 17.785 | 17.716 | 36.484 | 193.7 | 0.856 | 26.479 |
| 500 | 16.127 | 16.046 | 36.199 | 180.5 | 1.018 | 26.660 |
| 600 | 14.009 | 13.921 | 35.867 | 167.7 | 1.164 | 26.874 |
| 700 | 11.888 | 11.795 | 35.561 | 155.1 | 1.290 | 27.064 |
| 800 | 9.700 | 9.606 | 35.283 | 146.3 | 1.398 | 27.240 |
| 900 | 7.961 | 7.866 | 35.130 | 156.8 | 1.490 | 27.396 |
| 1000 | 6.682 | 6.585 | 35.070 | 174.5 | 1.568 | 27.531 |
| 1100 | 5.891 | 5.791 | 35.084 | 208.5 | 1.632 | 27.646 |
| 1200 | 5.279 | 5.173 | 35.062 | 228.4 | 1.690 | 27.704 |
| 1300 | 4.857 | 4.746 | 35.044 | 241.4 | 1.742 | 27.740 |
| 1400 | 4.365 | 4.249 | 35.004 | 252.8 | 1.791 | 27.763 |
| 1500 | 4.147 | 4.025 | 34.991 | 258.0 | 1.838 | 27.776 |
| 1750 | 3.797 | 3.656 | 34.968 | 262.3 | 1.955 | 27.796 |
| 2000 | 3.590 | 3.429 | 34.962 | 263.4 | 2.070 | 27.814 |
| 2500 | 3.146 | 2.944 | 34.948 | 263.4 | 2.295 | 27.849 |
| 3000 | 2.756 | 2.511 | 34.927 | 266.4 | 2.514 | 27.871 |
| 3500 | 2.451 | 2.160 | 34.908 | 267.6 | 2.727 | 27.885 |
| 4000 | 2.320 | 1.977 | 34.897 | 266.4 | 2.942 | 27.891 |
| 4500 | 2.296 | 1.895 | 34.891 | 264.0 | 3.165 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4923 | 24 | 2.303 | 1.849 | 34.885 | 261.6 |
| 3801 | 3 | 2.368 | 2.046 | 34.901 | 266.9 |
| 3449 | 4 | 2.460 | 2.178 | 34.319 | 268.2 |
| 3149 | 5 | 2.677 | 2.417 | 34.923 | 267.1 |
| 2801 | 6 | 2.922 | 2.693 | 34.938 | 264.3 |
| 2501 | 7 | 3.168 | 2.965 | 34.947 | 263.8 |
| 2200 | 8 | 3.362 | 3.185 | 34.956 | 263.3 |
| 1901 | 9 | 3.664 | 3.511 | 34.964 | 263.8 |
| 1603 | 10 | 4.000 | 3.870 | 34.980 | 259.4 |
| 1375 | 11 | 4.498 | 4.384 | 35.015 | 247.9 |
| 1174 | 12 | 5.285 | 5.183 | 35.060 | 227.1 |
| 979 | 13 | 6.810 | 6.714 | 35.155 | 158.5 |
| 804 | 14 | 9.632 | 9.538 | 35.278 | 146.0 |
| 652 | 15 | 13.072 | 12.980 | 35.740 | 160.0 |
| 503 | 16 | 16.214 | 16.132 | 36.213 | 177.1 |
| 402 | 17 | 17.782 | 17.713 | 36.482 | 189.7 |
| 302 | 18 | 18.634 | 18.580 | 36.586 | 200.7 |
| 224 | 19 | 19.188 | 19.147 | 36.634 | 199.9 |
| 160 | 20 | 20.726 | 20.696 | 36.774 | 213.7 |
| 110 | 21 | 21.923 | 21.901 | 36.878 | 196.7 |
| 54 | 22 | 23.456 | 23.445 | 36.822 | 212.8 |
| 3 | 23 | 24.455 | 24.454 | 36.638 | 208.2 |

Abaco 2001 R.V. Oceanus
 CTD Station 11 (CTD011)
 Latitude 26.527 N Longitude 76.492 W
 28-Apr-2001 23:55 Z

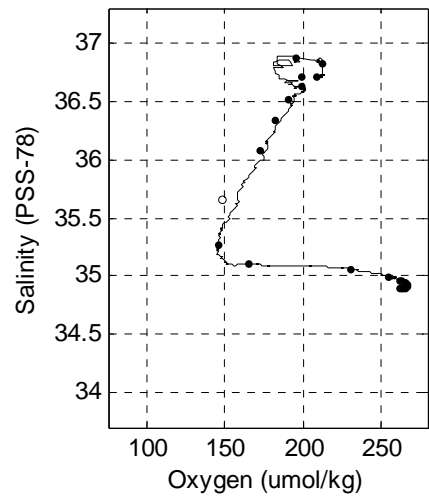
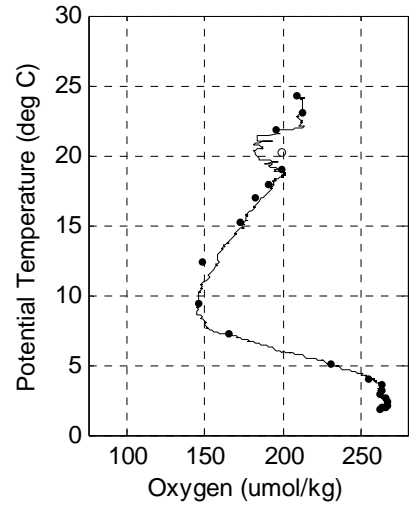
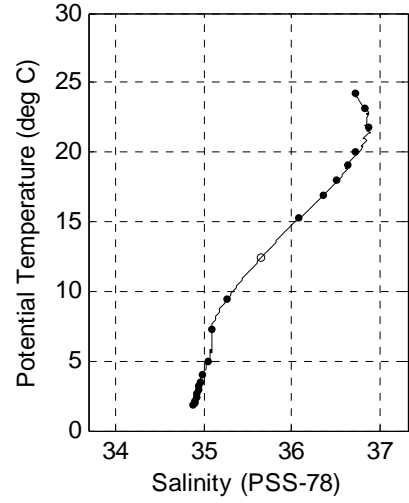
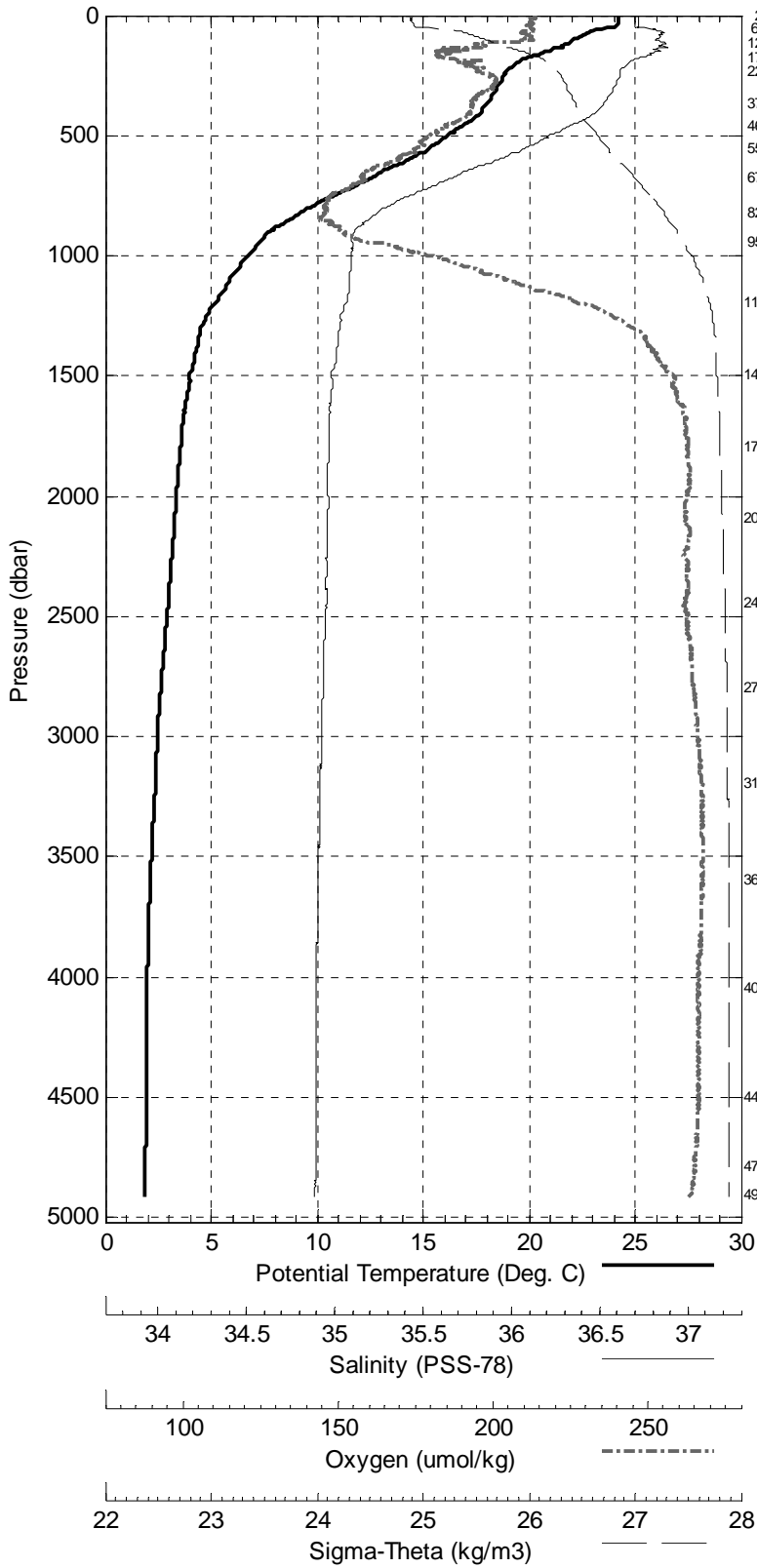


ABACO-01 R.V. Oceanus
 CTD Station 12 (CTD012)
 Latitude 26.529N Longitude 76.316W
 29-Apr-2001 04:20Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.180 | 24.180 | 36.717 | 213.4 | 0.003 | 24.888 |
| 10 | 24.187 | 24.185 | 36.718 | 213.3 | 0.031 | 24.887 |
| 20 | 24.190 | 24.186 | 36.718 | 213.3 | 0.061 | 24.887 |
| 30 | 24.192 | 24.186 | 36.719 | 213.0 | 0.092 | 24.888 |
| 50 | 23.998 | 23.988 | 36.717 | 211.9 | 0.153 | 24.946 |
| 75 | 22.723 | 22.708 | 36.853 | 209.3 | 0.220 | 25.425 |
| 100 | 22.039 | 22.019 | 36.815 | 213.1 | 0.283 | 25.592 |
| 125 | 21.624 | 21.599 | 36.837 | 196.9 | 0.342 | 25.727 |
| 150 | 20.877 | 20.849 | 36.832 | 181.4 | 0.397 | 25.931 |
| 200 | 19.380 | 19.343 | 36.657 | 192.1 | 0.496 | 26.199 |
| 250 | 18.869 | 18.824 | 36.617 | 199.4 | 0.588 | 26.303 |
| 300 | 18.554 | 18.501 | 36.581 | 200.1 | 0.678 | 26.357 |
| 400 | 17.816 | 17.747 | 36.485 | 193.1 | 0.851 | 26.473 |
| 500 | 16.174 | 16.093 | 36.211 | 180.1 | 1.014 | 26.658 |
| 600 | 14.397 | 14.307 | 35.924 | 169.0 | 1.162 | 26.836 |
| 700 | 12.066 | 11.972 | 35.585 | 155.5 | 1.291 | 27.049 |
| 800 | 9.625 | 9.531 | 35.277 | 146.4 | 1.400 | 27.248 |
| 900 | 7.775 | 7.681 | 35.104 | 151.3 | 1.492 | 27.403 |
| 1000 | 6.784 | 6.686 | 35.093 | 180.3 | 1.570 | 27.535 |
| 1100 | 5.992 | 5.890 | 35.088 | 204.8 | 1.635 | 27.636 |
| 1200 | 5.210 | 5.105 | 35.064 | 229.3 | 1.692 | 27.714 |
| 1300 | 4.643 | 4.534 | 35.028 | 245.4 | 1.743 | 27.751 |
| 1400 | 4.376 | 4.261 | 35.008 | 252.0 | 1.792 | 27.765 |
| 1500 | 4.094 | 3.973 | 34.980 | 258.5 | 1.839 | 27.773 |
| 1750 | 3.742 | 3.602 | 34.967 | 262.3 | 1.955 | 27.801 |
| 2000 | 3.542 | 3.382 | 34.963 | 262.6 | 2.068 | 27.819 |
| 2500 | 3.113 | 2.911 | 34.947 | 263.2 | 2.291 | 27.851 |
| 3000 | 2.708 | 2.463 | 34.924 | 266.3 | 2.507 | 27.873 |
| 3500 | 2.469 | 2.177 | 34.909 | 267.7 | 2.722 | 27.884 |
| 4000 | 2.340 | 1.996 | 34.898 | 266.4 | 2.937 | 27.890 |
| 4500 | 2.347 | 1.945 | 34.895 | 266.2 | 3.162 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4908 | 24 | 2.317 | 1.865 | 34.888 | 262.1 |
| 4795 | 1 | 2.333 | 1.895 | 34.891 | 263.7 |
| 4498 | 3 | 2.348 | 1.946 | 34.894 | 264.8 |
| 4047 | 4 | 2.336 | 1.987 | 34.897 | 265.7 |
| 3600 | 5 | 2.434 | 2.132 | 34.907 | 267.9 |
| 3199 | 6 | 2.639 | 2.375 | 34.920 | 267.3 |
| 2797 | 7 | 2.860 | 2.633 | 34.933 | 265.5 |
| 2450 | 8 | 3.131 | 2.934 | 34.950 | 262.9 |
| 2099 | 9 | 3.404 | 3.236 | 34.955 | 263.9 |
| 1800 | 10 | 3.645 | 3.501 | 34.960 | 264.2 |
| 1500 | 11 | 4.177 | 4.055 | 34.992 | 255.6 |
| 1198 | 12 | 5.109 | 5.005 | 35.050 | 230.7 |
| 950 | 13 | 7.367 | 7.271 | 35.100 | 165.6 |
| 825 | 14 | 9.469 | 9.373 | 35.257 | 145.4 |
| 678 | 15 | 12.460 | 12.367 | 35.656 | 148.7 |
| 552 | 16 | 15.331 | 15.244 | 36.078 | 172.9 |
| 461 | 17 | 17.009 | 16.932 | 36.343 | 182.3 |
| 371 | 18 | 17.995 | 17.931 | 36.510 | 191.0 |
| 230 | 19 | 19.077 | 19.035 | 36.623 | 199.0 |
| 176 | 20 | 20.041 | 20.009 | 36.715 | 199.4 |
| 120 | 21 | 21.859 | 21.835 | 36.867 | 195.8 |
| 60 | 22 | 23.107 | 23.095 | 36.827 | 212.8 |
| 3 | 23 | 24.252 | 24.251 | 36.716 | 209.1 |

Abaco 2001 R.V. Oceanus
 CTD Station 12 (CTD012)
 Latitude 26.529 N Longitude 76.316 W
 29-Apr-2001 04:20 Z

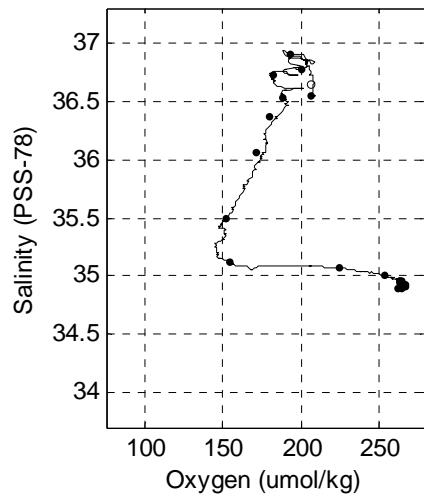
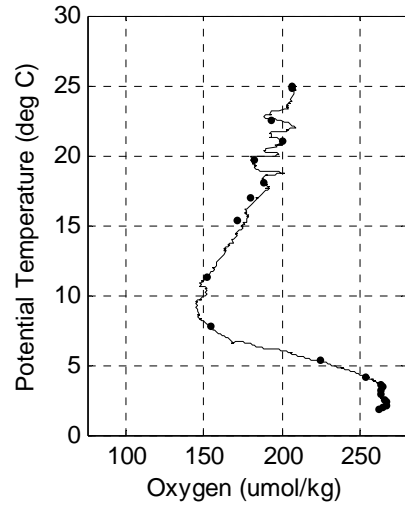
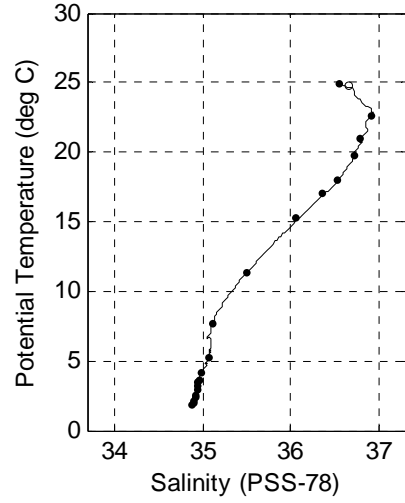
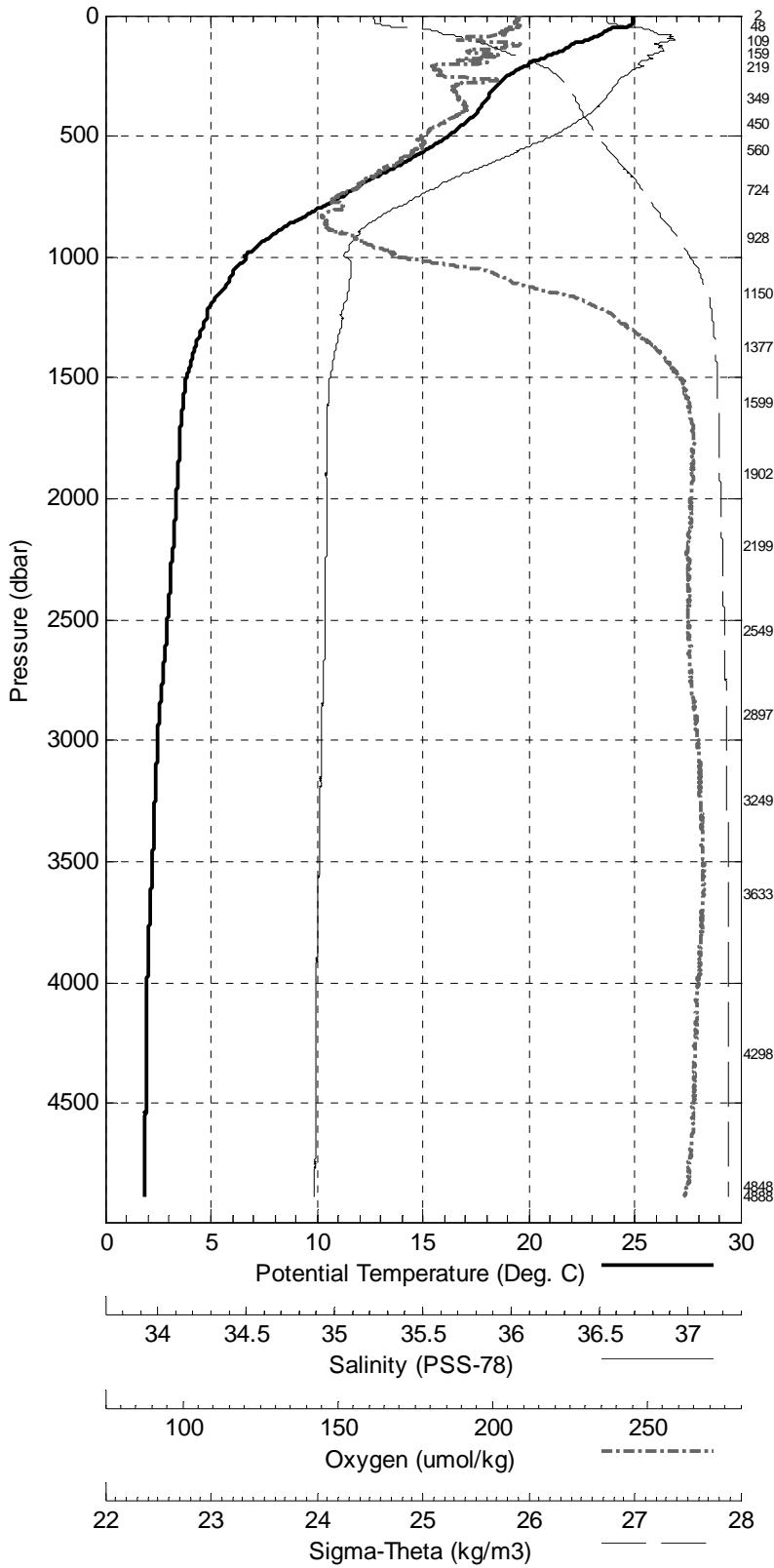


ABACO-01 R.V. Oceanus
 CTD Station 13 (CTD013)
 Latitude 26.528N Longitude 76.127W
 29-Apr-2001 08:53Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.908 | 24.908 | 36.545 | 208.3 | 0.003 | 24.538 |
| 10 | 24.910 | 24.907 | 36.547 | 208.1 | 0.034 | 24.539 |
| 20 | 24.910 | 24.905 | 36.546 | 208.5 | 0.068 | 24.539 |
| 30 | 24.910 | 24.904 | 36.554 | 207.2 | 0.102 | 24.545 |
| 50 | 24.354 | 24.344 | 36.721 | 207.3 | 0.168 | 24.842 |
| 75 | 23.460 | 23.445 | 36.832 | 203.9 | 0.240 | 25.193 |
| 100 | 22.878 | 22.858 | 36.928 | 189.6 | 0.307 | 25.438 |
| 125 | 21.970 | 21.945 | 36.852 | 205.0 | 0.369 | 25.641 |
| 150 | 21.506 | 21.477 | 36.855 | 192.2 | 0.427 | 25.775 |
| 200 | 20.014 | 19.976 | 36.722 | 193.4 | 0.533 | 26.082 |
| 250 | 19.007 | 18.962 | 36.640 | 183.7 | 0.628 | 26.285 |
| 300 | 18.433 | 18.380 | 36.579 | 187.4 | 0.717 | 26.386 |
| 400 | 17.602 | 17.534 | 36.455 | 189.7 | 0.888 | 26.502 |
| 500 | 16.218 | 16.136 | 36.225 | 176.9 | 1.049 | 26.659 |
| 600 | 14.309 | 14.220 | 35.915 | 170.9 | 1.196 | 26.848 |
| 700 | 12.170 | 12.075 | 35.600 | 156.7 | 1.326 | 27.041 |
| 800 | 10.055 | 9.958 | 35.326 | 151.3 | 1.438 | 27.214 |
| 900 | 8.125 | 8.029 | 35.140 | 151.0 | 1.534 | 27.379 |
| 1000 | 6.720 | 6.623 | 35.068 | 170.1 | 1.612 | 27.524 |
| 1100 | 5.920 | 5.819 | 35.083 | 206.4 | 1.677 | 27.641 |
| 1200 | 5.060 | 4.957 | 35.047 | 233.1 | 1.732 | 27.718 |
| 1300 | 4.667 | 4.558 | 35.029 | 245.4 | 1.783 | 27.749 |
| 1400 | 4.256 | 4.142 | 35.000 | 254.5 | 1.831 | 27.771 |
| 1500 | 3.935 | 3.816 | 34.971 | 260.9 | 1.877 | 27.782 |
| 1750 | 3.667 | 3.528 | 34.953 | 264.6 | 1.991 | 27.797 |
| 2000 | 3.493 | 3.333 | 34.953 | 264.0 | 2.105 | 27.816 |
| 2500 | 3.152 | 2.949 | 34.947 | 263.4 | 2.330 | 27.847 |
| 3000 | 2.722 | 2.477 | 34.925 | 266.4 | 2.549 | 27.872 |
| 3500 | 2.521 | 2.228 | 34.912 | 268.0 | 2.765 | 27.882 |
| 4000 | 2.336 | 1.992 | 34.898 | 266.2 | 2.982 | 27.890 |
| 4500 | 2.319 | 1.917 | 34.892 | 265.0 | 3.206 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4888 | 24 | 2.308 | 1.859 | 34.887 | 262.0 |
| 4848 | 1 | 2.303 | 1.859 | 34.887 | 261.9 |
| 4299 | 3 | 2.314 | 1.937 | 34.894 | 265.1 |
| 3634 | 5 | 2.461 | 2.155 | 34.907 | 267.7 |
| 3249 | 6 | 2.620 | 2.351 | 34.918 | 267.6 |
| 2898 | 7 | 2.792 | 2.556 | 34.929 | 266.3 |
| 2550 | 8 | 3.130 | 2.923 | 34.947 | 263.8 |
| 2200 | 9 | 3.373 | 3.195 | 34.953 | 264.1 |
| 1902 | 10 | 3.571 | 3.420 | 34.952 | 265.2 |
| 1600 | 11 | 3.732 | 3.606 | 34.961 | 263.6 |
| 1378 | 12 | 4.219 | 4.108 | 34.999 | 253.8 |
| 1151 | 13 | 5.347 | 5.246 | 35.068 | 225.0 |
| 928 | 14 | 7.777 | 7.680 | 35.112 | 155.1 |
| 725 | 15 | 11.418 | 11.324 | 35.490 | 152.0 |
| 560 | 16 | 15.318 | 15.230 | 36.063 | 171.6 |
| 450 | 17 | 17.049 | 16.974 | 36.361 | 180.3 |
| 349 | 18 | 18.091 | 18.030 | 36.530 | 188.7 |
| 219 | 19 | 19.725 | 19.684 | 36.721 | 182.8 |
| 160 | 20 | 21.025 | 20.994 | 36.780 | 200.4 |
| 109 | 21 | 22.582 | 22.560 | 36.904 | 193.6 |
| 48 | 22 | 24.839 | 24.828 | 36.650 | 206.0 |
| 2 | 23 | 24.878 | 24.878 | 36.542 | 206.3 |

Abaco 2001 R.V. Oceanus
 CTD Station 13 (CTD013)
 Latitude 26.528 N Longitude 76.127 W
 29-Apr-2001 08:53 Z

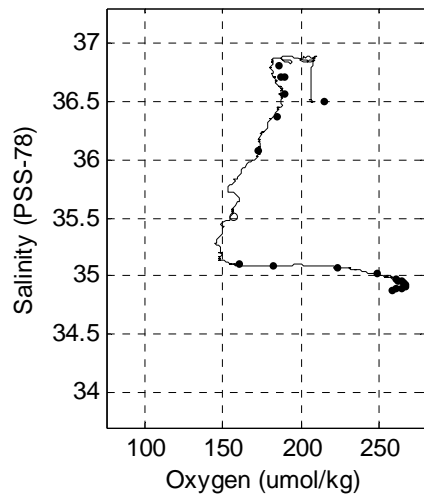
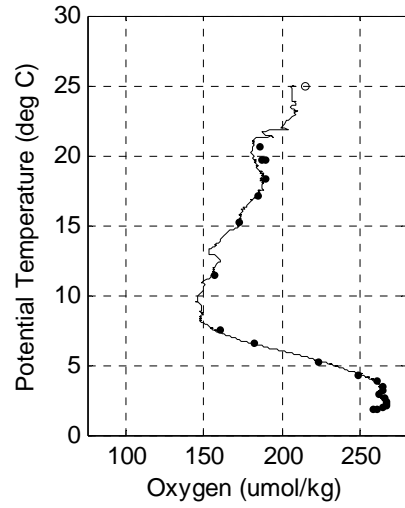
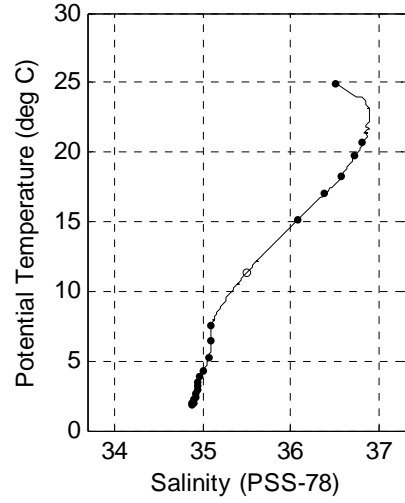
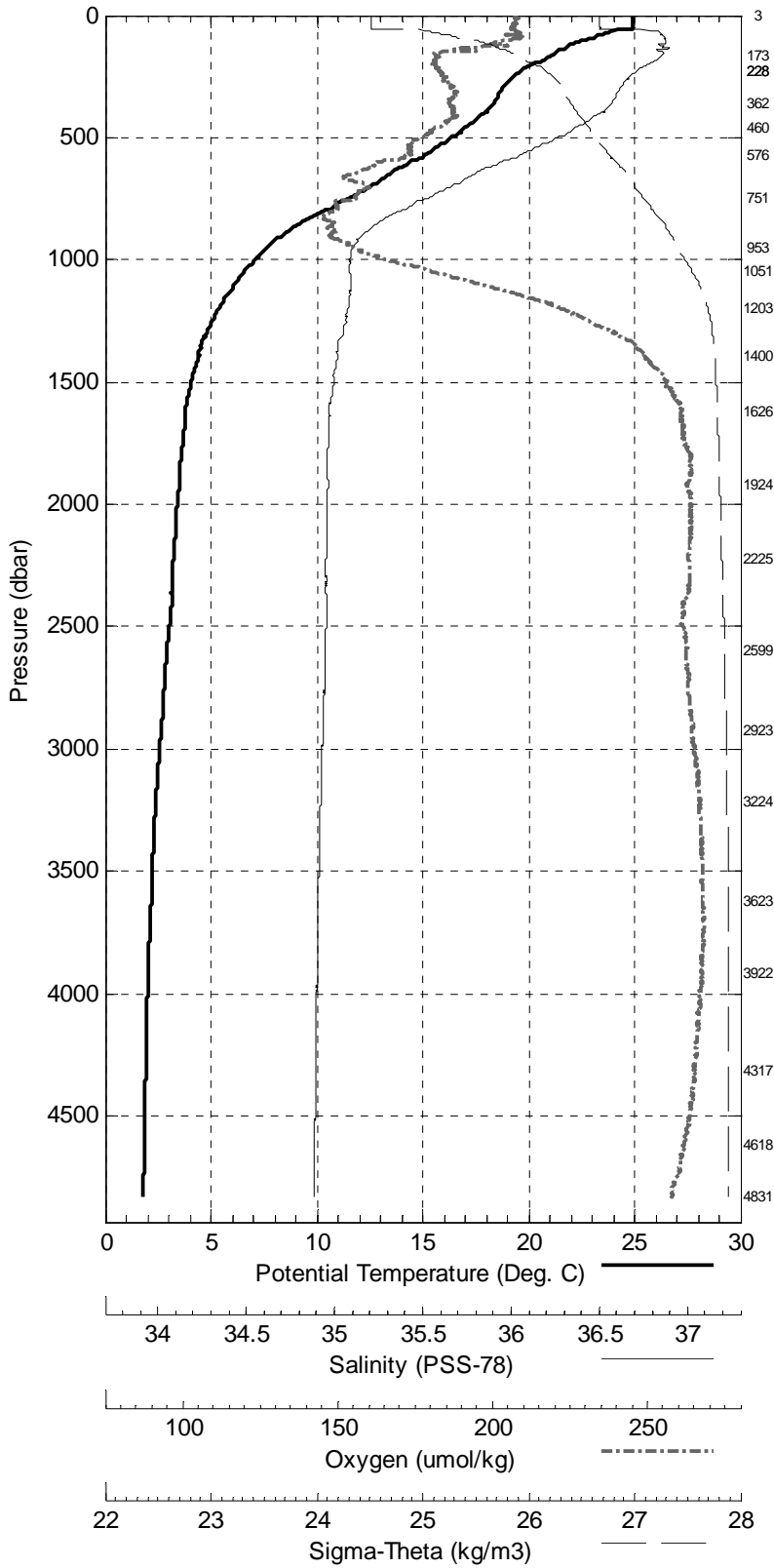


ABACO-01 R.V. Oceanus
 CTD Station 14 (CTD014)
 Latitude 26.531N Longitude 75.928W
 29-Apr-2001 13:43Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.878 | 24.878 | 36.502 | 207.7 | 0.003 | 24.514 |
| 10 | 24.889 | 24.887 | 36.503 | 207.5 | 0.034 | 24.512 |
| 20 | 24.895 | 24.891 | 36.503 | 207.0 | 0.068 | 24.511 |
| 30 | 24.902 | 24.895 | 36.503 | 207.9 | 0.103 | 24.510 |
| 50 | 24.903 | 24.892 | 36.504 | 206.3 | 0.171 | 24.512 |
| 75 | 23.636 | 23.620 | 36.851 | 208.9 | 0.248 | 25.156 |
| 100 | 22.672 | 22.652 | 36.880 | 205.4 | 0.315 | 25.461 |
| 125 | 21.831 | 21.806 | 36.857 | 201.8 | 0.376 | 25.685 |
| 150 | 21.329 | 21.300 | 36.871 | 184.0 | 0.433 | 25.836 |
| 200 | 20.159 | 20.122 | 36.762 | 181.0 | 0.539 | 26.074 |
| 250 | 19.318 | 19.273 | 36.674 | 185.2 | 0.636 | 26.230 |
| 300 | 18.816 | 18.762 | 36.619 | 186.3 | 0.728 | 26.320 |
| 400 | 17.913 | 17.843 | 36.504 | 187.5 | 0.905 | 26.463 |
| 500 | 16.369 | 16.287 | 36.253 | 176.9 | 1.068 | 26.645 |
| 600 | 14.422 | 14.332 | 35.934 | 163.5 | 1.217 | 26.838 |
| 700 | 12.565 | 12.468 | 35.655 | 160.3 | 1.349 | 27.007 |
| 800 | 10.427 | 10.328 | 35.369 | 149.3 | 1.464 | 27.183 |
| 900 | 8.415 | 8.317 | 35.150 | 147.5 | 1.562 | 27.343 |
| 1000 | 7.165 | 7.065 | 35.089 | 166.0 | 1.645 | 27.480 |
| 1100 | 6.201 | 6.098 | 35.095 | 196.6 | 1.715 | 27.615 |
| 1200 | 5.444 | 5.337 | 35.076 | 222.3 | 1.774 | 27.695 |
| 1300 | 4.897 | 4.786 | 35.048 | 239.8 | 1.827 | 27.738 |
| 1400 | 4.512 | 4.395 | 35.018 | 249.3 | 1.877 | 27.758 |
| 1500 | 4.200 | 4.078 | 34.994 | 256.2 | 1.925 | 27.774 |
| 1750 | 3.825 | 3.683 | 34.969 | 262.2 | 2.043 | 27.794 |
| 2000 | 3.559 | 3.398 | 34.954 | 263.9 | 2.158 | 27.811 |
| 2500 | 3.219 | 3.015 | 34.953 | 261.4 | 2.387 | 27.846 |
| 3000 | 2.819 | 2.572 | 34.932 | 265.2 | 2.609 | 27.869 |
| 3500 | 2.506 | 2.214 | 34.911 | 267.9 | 2.826 | 27.883 |
| 4000 | 2.350 | 2.006 | 34.899 | 267.1 | 3.044 | 27.890 |
| 4500 | 2.281 | 1.881 | 34.890 | 263.6 | 3.267 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4832 | 24 | 2.246 | 1.806 | 34.882 | 258.6 |
| 4618 | 1 | 2.266 | 1.851 | 34.887 | 261.5 |
| 4318 | 2 | 2.290 | 1.911 | 34.892 | 264.7 |
| 3922 | 3 | 2.370 | 2.034 | 34.902 | 267.3 |
| 3624 | 4 | 2.481 | 2.175 | 34.909 | 267.9 |
| 3224 | 5 | 2.668 | 2.401 | 34.922 | 267.2 |
| 2923 | 6 | 2.881 | 2.641 | 34.935 | 265.5 |
| 2599 | 7 | 3.151 | 2.939 | 34.951 | 263.0 |
| 2225 | 8 | 3.418 | 3.238 | 34.951 | 264.3 |
| 1924 | 9 | 3.581 | 3.427 | 34.957 | 264.6 |
| 1627 | 10 | 3.947 | 3.816 | 34.974 | 260.6 |
| 1401 | 11 | 4.450 | 4.334 | 35.016 | 248.8 |
| 1204 | 12 | 5.343 | 5.236 | 35.074 | 223.5 |
| 1051 | 13 | 6.617 | 6.515 | 35.087 | 182.8 |
| 953 | 14 | 7.582 | 7.483 | 35.097 | 160.3 |
| 751 | 15 | 11.436 | 11.338 | 35.508 | 156.5 |
| 577 | 16 | 15.286 | 15.196 | 36.069 | 173.0 |
| 460 | 17 | 17.127 | 17.049 | 36.376 | 185.1 |
| 362 | 18 | 18.337 | 18.273 | 36.565 | 190.0 |
| 229 | 19 | 19.748 | 19.706 | 36.715 | 189.9 |
| 229 | 20 | 19.745 | 19.702 | 36.715 | 187.7 |
| 173 | 21 | 20.681 | 20.648 | 36.809 | 185.9 |
| 4 | 23 | 24.902 | 24.901 | 36.497 | 215.4 |

Abaco 2001 R.V. Oceanus
CTD Station 14 (CTD014)
 Latitude 26.531 N Longitude 75.928 W
 29-Apr-2001 13:43 Z

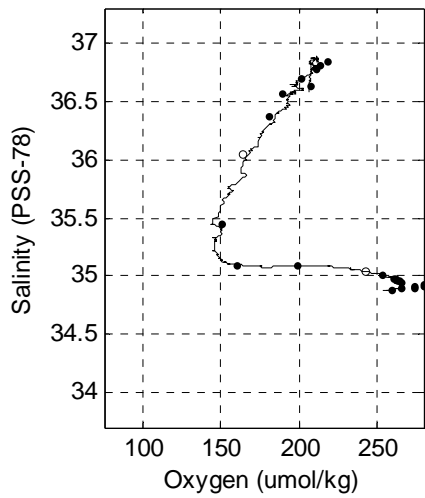
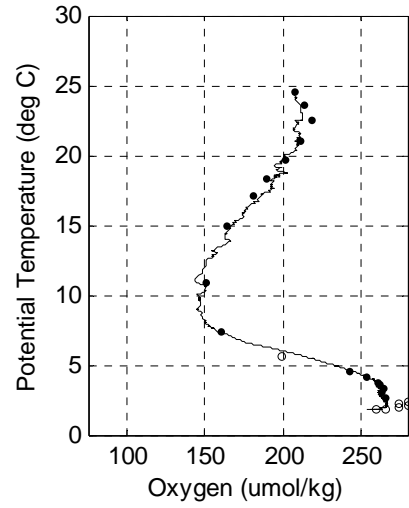
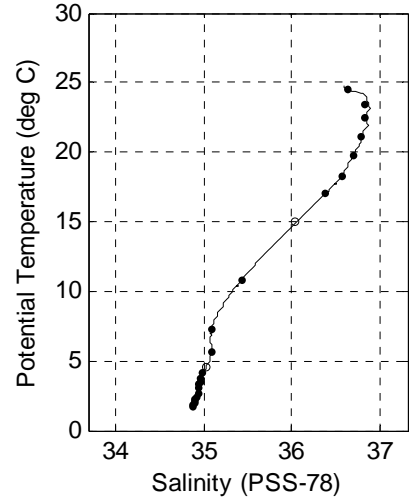
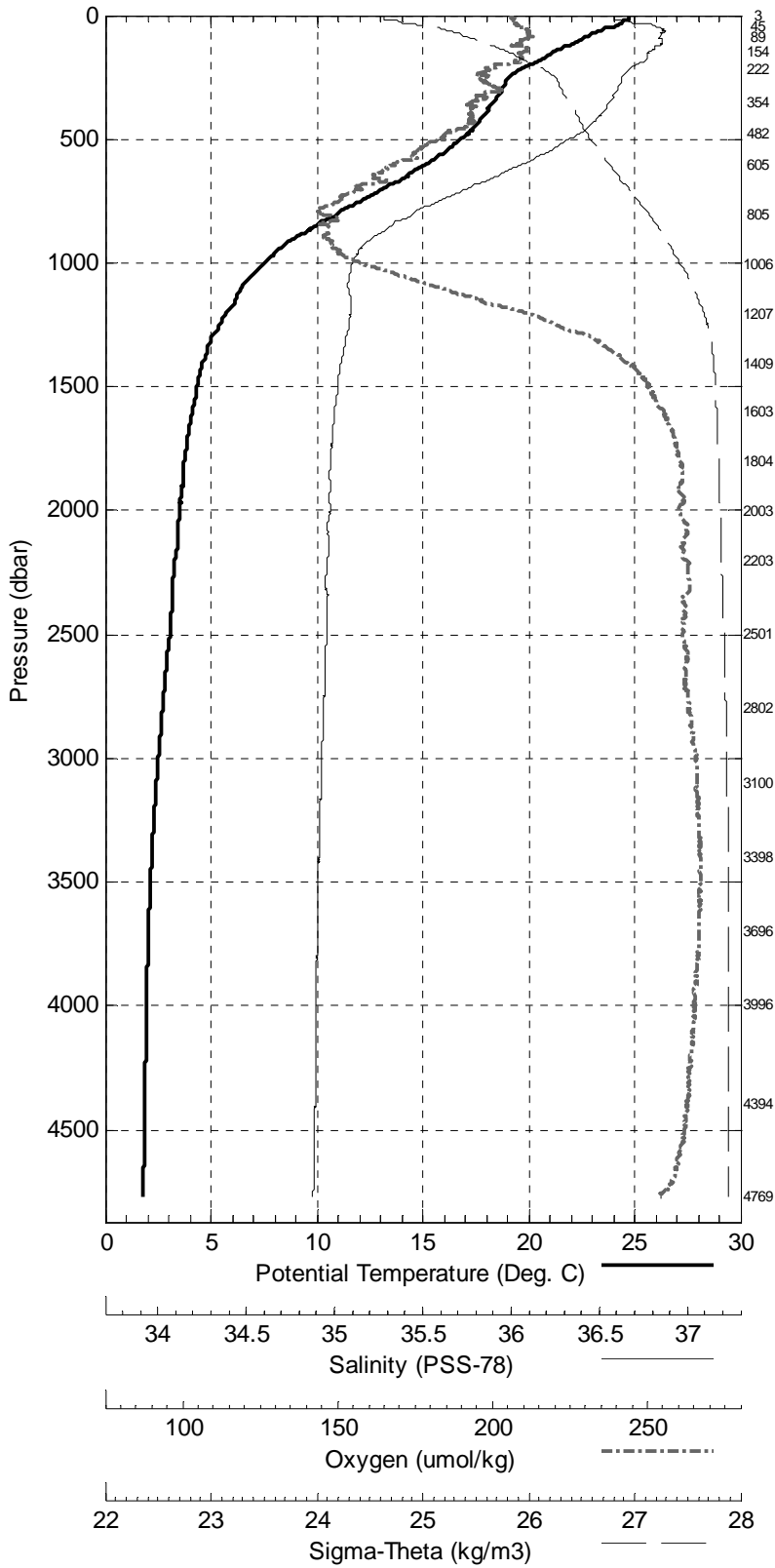


ABACO-01 R.V. Oceanus
 CTD Station 15 (CTD015)
 Latitude 26.551N Longitude 75.728W
 29-Apr-2001 21:11Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.714 | 24.714 | 36.585 | 206.5 | 0.003 | 24.627 |
| 10 | 24.707 | 24.705 | 36.587 | 207.0 | 0.033 | 24.631 |
| 20 | 24.700 | 24.695 | 36.590 | 206.5 | 0.066 | 24.636 |
| 30 | 24.383 | 24.377 | 36.689 | 207.4 | 0.098 | 24.808 |
| 50 | 23.717 | 23.706 | 36.853 | 210.3 | 0.158 | 25.132 |
| 75 | 22.937 | 22.922 | 36.850 | 211.8 | 0.226 | 25.361 |
| 100 | 22.460 | 22.440 | 36.867 | 208.3 | 0.290 | 25.512 |
| 125 | 21.696 | 21.672 | 36.805 | 209.9 | 0.351 | 25.682 |
| 150 | 21.096 | 21.067 | 36.778 | 209.3 | 0.408 | 25.830 |
| 200 | 20.050 | 20.013 | 36.706 | 200.8 | 0.515 | 26.060 |
| 250 | 19.119 | 19.074 | 36.634 | 197.0 | 0.611 | 26.251 |
| 300 | 18.794 | 18.740 | 36.602 | 202.8 | 0.702 | 26.313 |
| 400 | 17.972 | 17.903 | 36.510 | 193.3 | 0.879 | 26.453 |
| 500 | 16.813 | 16.729 | 36.322 | 184.6 | 1.046 | 26.594 |
| 600 | 15.250 | 15.157 | 36.067 | 168.6 | 1.201 | 26.760 |
| 700 | 13.174 | 13.075 | 35.740 | 156.9 | 1.340 | 26.951 |
| 800 | 10.990 | 10.889 | 35.435 | 144.8 | 1.462 | 27.135 |
| 900 | 9.043 | 8.941 | 35.212 | 146.2 | 1.566 | 27.294 |
| 1000 | 7.612 | 7.508 | 35.101 | 157.2 | 1.655 | 27.426 |
| 1100 | 6.520 | 6.414 | 35.079 | 183.7 | 1.730 | 27.561 |
| 1200 | 5.823 | 5.712 | 35.088 | 210.7 | 1.795 | 27.659 |
| 1300 | 5.141 | 5.028 | 35.064 | 232.5 | 1.851 | 27.723 |
| 1400 | 4.736 | 4.617 | 35.036 | 243.0 | 1.903 | 27.748 |
| 1500 | 4.466 | 4.340 | 35.018 | 250.1 | 1.953 | 27.764 |
| 1750 | 3.981 | 3.838 | 34.983 | 259.7 | 2.074 | 27.789 |
| 2000 | 3.702 | 3.539 | 34.973 | 260.2 | 2.192 | 27.812 |
| 2500 | 3.268 | 3.064 | 34.957 | 261.3 | 2.422 | 27.845 |
| 3000 | 2.748 | 2.503 | 34.926 | 265.8 | 2.643 | 27.871 |
| 3500 | 2.430 | 2.139 | 34.908 | 266.9 | 2.855 | 27.886 |
| 4000 | 2.295 | 1.952 | 34.895 | 265.1 | 3.068 | 27.892 |
| 4500 | 2.264 | 1.864 | 34.888 | 261.9 | 3.290 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4770 | 24 | 2.194 | 1.764 | 34.877 | 260.2 |
| 4395 | 1 | 2.271 | 1.883 | 34.890 | 265.7 |
| 3997 | 2 | 2.300 | 1.958 | 34.896 | 274.0 |
| 3696 | 3 | 2.361 | 2.050 | 34.903 | 280.0 |
| 3399 | 4 | 2.476 | 2.195 | 34.911 | 274.3 |
| 3101 | 5 | 2.673 | 2.419 | 34.922 | 280.1 |
| 2802 | 6 | 2.910 | 2.682 | 34.937 | 265.6 |
| 2501 | 7 | 3.226 | 3.022 | 34.951 | 263.9 |
| 2203 | 8 | 3.488 | 3.309 | 34.953 | 265.0 |
| 2003 | 9 | 3.684 | 3.521 | 34.966 | 262.8 |
| 1804 | 10 | 3.875 | 3.729 | 34.973 | 261.2 |
| 1604 | 11 | 4.226 | 4.093 | 34.998 | 254.5 |
| 1410 | 12 | 4.678 | 4.559 | 35.036 | 243.5 |
| 1208 | 13 | 5.685 | 5.575 | 35.088 | 199.6 |
| 1006 | 14 | 7.415 | 7.312 | 35.092 | 160.2 |
| 806 | 15 | 10.946 | 10.844 | 35.444 | 150.3 |
| 605 | 16 | 15.034 | 14.940 | 36.042 | 163.7 |
| 483 | 17 | 17.095 | 17.013 | 36.371 | 181.0 |
| 355 | 18 | 18.382 | 18.319 | 36.557 | 190.0 |
| 223 | 19 | 19.783 | 19.741 | 36.690 | 201.7 |
| 154 | 20 | 21.102 | 21.072 | 36.776 | 211.5 |
| 90 | 21 | 22.543 | 22.525 | 36.831 | 219.1 |
| 45 | 22 | 23.378 | 23.369 | 36.813 | 213.7 |
| 3 | 23 | 24.487 | 24.486 | 36.620 | 207.8 |

Abaco 2001 R.V. Oceanus
CTD Station 15 (CTD015)
Latitude 26.551 N Longitude 75.728 W
29-Apr-2001 21:11 Z

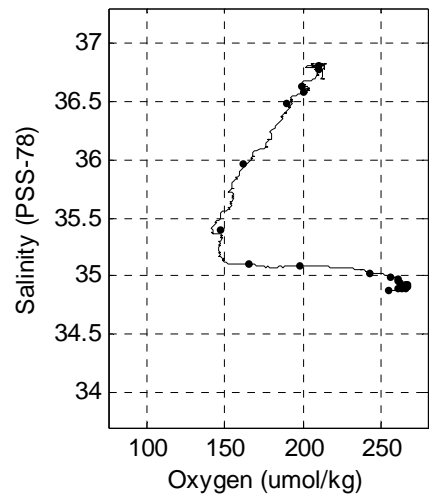
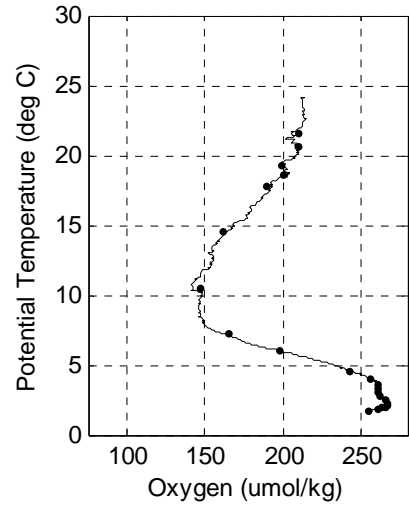
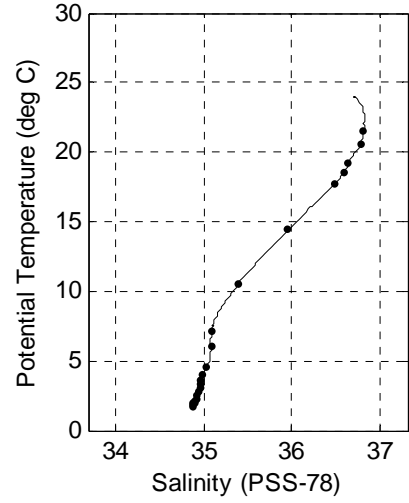
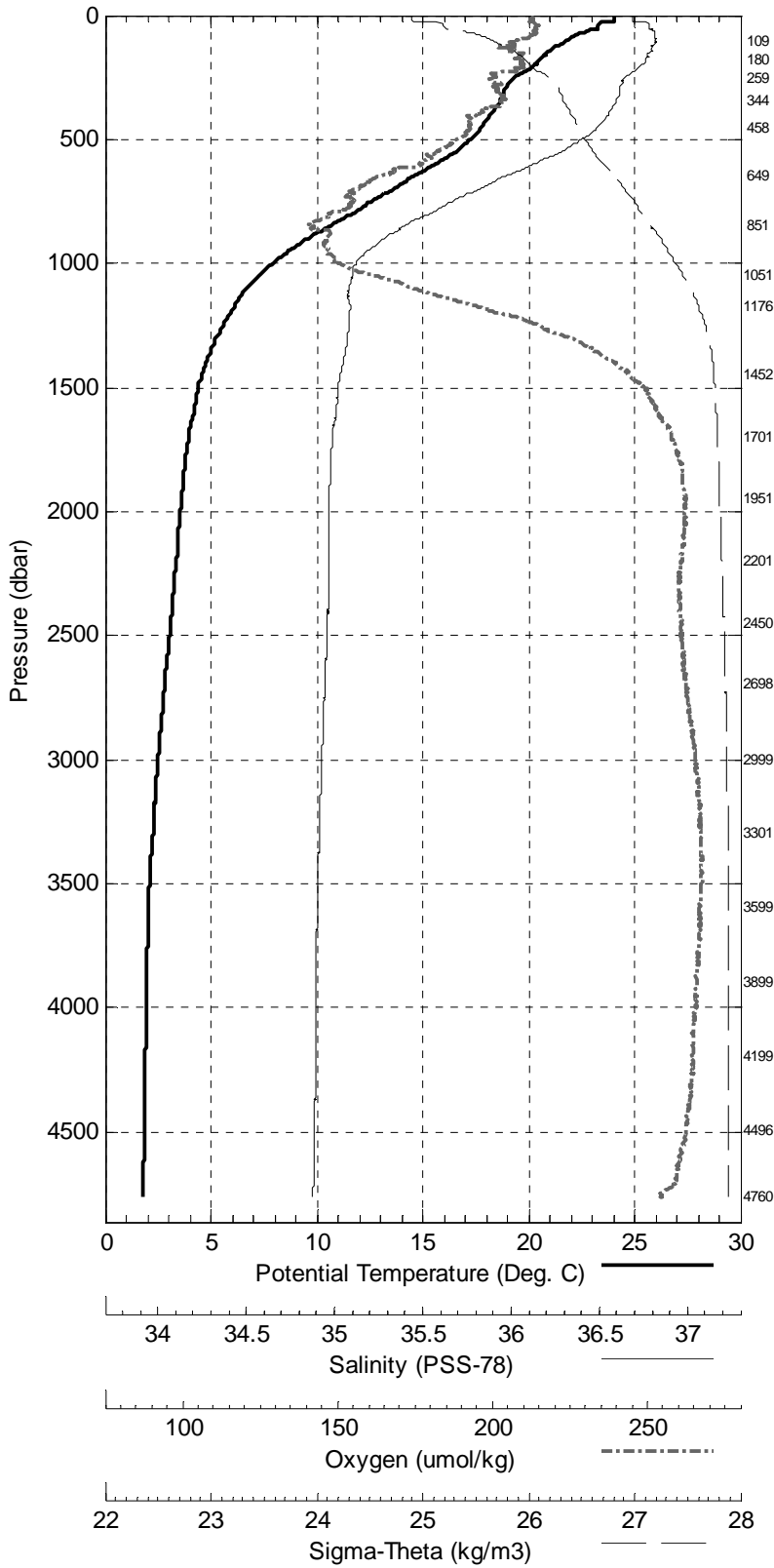


ABACO-01 R.V. Oceanus
 CTD Station 16 (CTD016)
 Latitude 26.531N Longitude 75.515W
 29-Apr-2001 02:37Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.068 | 24.068 | 36.686 | 212.8 | 0.003 | 24.898 |
| 10 | 24.067 | 24.065 | 36.688 | 213.1 | 0.030 | 24.900 |
| 20 | 24.075 | 24.070 | 36.687 | 212.1 | 0.061 | 24.898 |
| 30 | 23.383 | 23.377 | 36.781 | 214.8 | 0.090 | 25.175 |
| 50 | 23.241 | 23.230 | 36.780 | 213.8 | 0.146 | 25.217 |
| 75 | 22.352 | 22.337 | 36.822 | 213.7 | 0.212 | 25.507 |
| 100 | 21.819 | 21.799 | 36.817 | 208.1 | 0.272 | 25.656 |
| 125 | 21.296 | 21.271 | 36.804 | 202.9 | 0.330 | 25.793 |
| 150 | 20.864 | 20.835 | 36.782 | 208.8 | 0.385 | 25.897 |
| 200 | 20.246 | 20.209 | 36.730 | 209.9 | 0.490 | 26.026 |
| 250 | 19.322 | 19.276 | 36.643 | 199.6 | 0.590 | 26.206 |
| 300 | 18.937 | 18.883 | 36.619 | 201.5 | 0.683 | 26.289 |
| 400 | 18.279 | 18.208 | 36.551 | 194.5 | 0.864 | 26.409 |
| 500 | 17.320 | 17.235 | 36.398 | 188.1 | 1.036 | 26.531 |
| 600 | 15.699 | 15.604 | 36.129 | 177.3 | 1.197 | 26.707 |
| 700 | 13.716 | 13.614 | 35.823 | 155.8 | 1.340 | 26.905 |
| 800 | 11.755 | 11.649 | 35.536 | 147.3 | 1.466 | 27.072 |
| 900 | 9.680 | 9.574 | 35.283 | 146.1 | 1.577 | 27.246 |
| 1000 | 8.010 | 7.903 | 35.126 | 150.3 | 1.671 | 27.387 |
| 1100 | 6.768 | 6.660 | 35.079 | 174.8 | 1.751 | 27.528 |
| 1200 | 6.018 | 5.906 | 35.087 | 201.8 | 1.818 | 27.633 |
| 1300 | 5.358 | 5.242 | 35.073 | 225.0 | 1.877 | 27.704 |
| 1400 | 4.882 | 4.761 | 35.047 | 239.7 | 1.931 | 27.740 |
| 1500 | 4.512 | 4.386 | 35.019 | 248.9 | 1.982 | 27.760 |
| 1750 | 3.993 | 3.849 | 34.982 | 259.4 | 2.104 | 27.787 |
| 2000 | 3.712 | 3.549 | 34.969 | 262.2 | 2.222 | 27.808 |
| 2500 | 3.247 | 3.042 | 34.958 | 260.9 | 2.452 | 27.848 |
| 3000 | 2.750 | 2.505 | 34.928 | 265.4 | 2.672 | 27.872 |
| 3500 | 2.381 | 2.091 | 34.905 | 267.5 | 2.883 | 27.888 |
| 4000 | 2.278 | 1.936 | 34.894 | 265.7 | 3.094 | 27.892 |
| 4500 | 2.252 | 1.853 | 34.887 | 262.3 | 3.315 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4760 | 24 | 2.173 | 1.744 | 34.874 | 255.2 |
| 4497 | 1 | 2.255 | 1.855 | 34.887 | 261.7 |
| 4200 | 2 | 2.274 | 1.909 | 34.891 | 264.2 |
| 3899 | 3 | 2.295 | 1.964 | 34.896 | 266.0 |
| 3600 | 4 | 2.360 | 2.061 | 34.902 | 267.4 |
| 3301 | 5 | 2.531 | 2.259 | 34.916 | 267.5 |
| 3000 | 6 | 2.734 | 2.489 | 34.927 | 265.9 |
| 2699 | 7 | 3.046 | 2.825 | 34.947 | 263.0 |
| 2451 | 8 | 3.297 | 3.096 | 34.961 | 261.2 |
| 2202 | 9 | 3.529 | 3.349 | 34.968 | 261.3 |
| 1951 | 10 | 3.765 | 3.606 | 34.972 | 261.6 |
| 1701 | 11 | 4.114 | 3.974 | 34.995 | 256.3 |
| 1453 | 12 | 4.676 | 4.553 | 35.029 | 243.4 |
| 1176 | 13 | 6.132 | 6.022 | 35.085 | 197.7 |
| 1052 | 14 | 7.297 | 7.190 | 35.097 | 165.4 |
| 851 | 15 | 10.627 | 10.521 | 35.391 | 147.6 |
| 649 | 16 | 14.600 | 14.501 | 35.958 | 161.5 |
| 458 | 17 | 17.806 | 17.726 | 36.482 | 190.1 |
| 344 | 18 | 18.649 | 18.588 | 36.586 | 201.1 |
| 260 | 19 | 19.210 | 19.163 | 36.628 | 199.8 |
| 180 | 20 | 20.614 | 20.579 | 36.769 | 210.4 |
| 110 | 21 | 21.592 | 21.570 | 36.806 | 210.7 |

Abaco 2001 R.V. Oceanus
 CTD Station 16 (CTD016)
 Latitude 26.531 N Longitude 75.515 W
 29-Apr-2001 02:37 Z

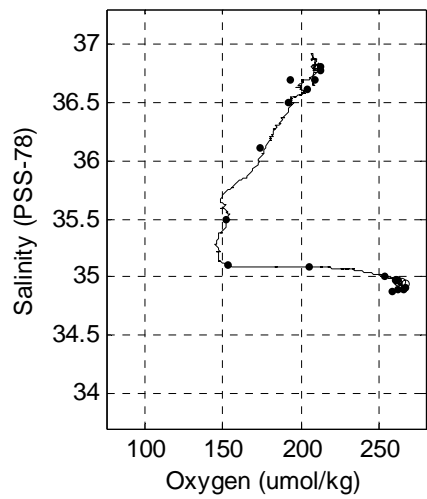
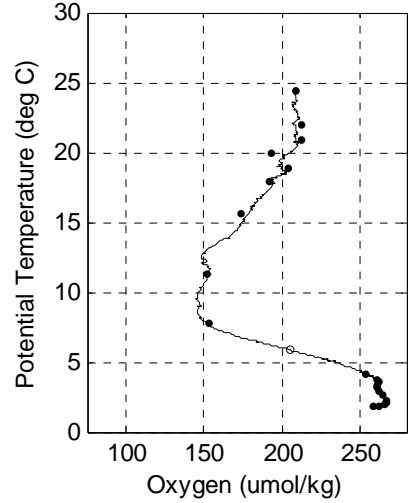
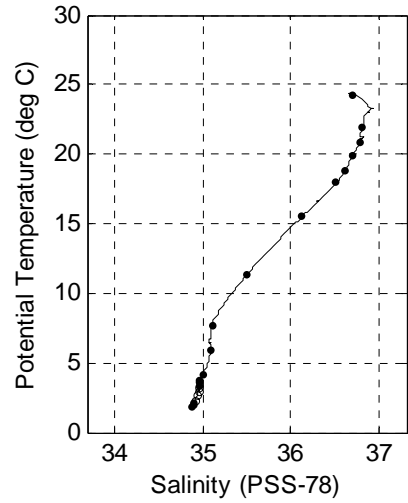
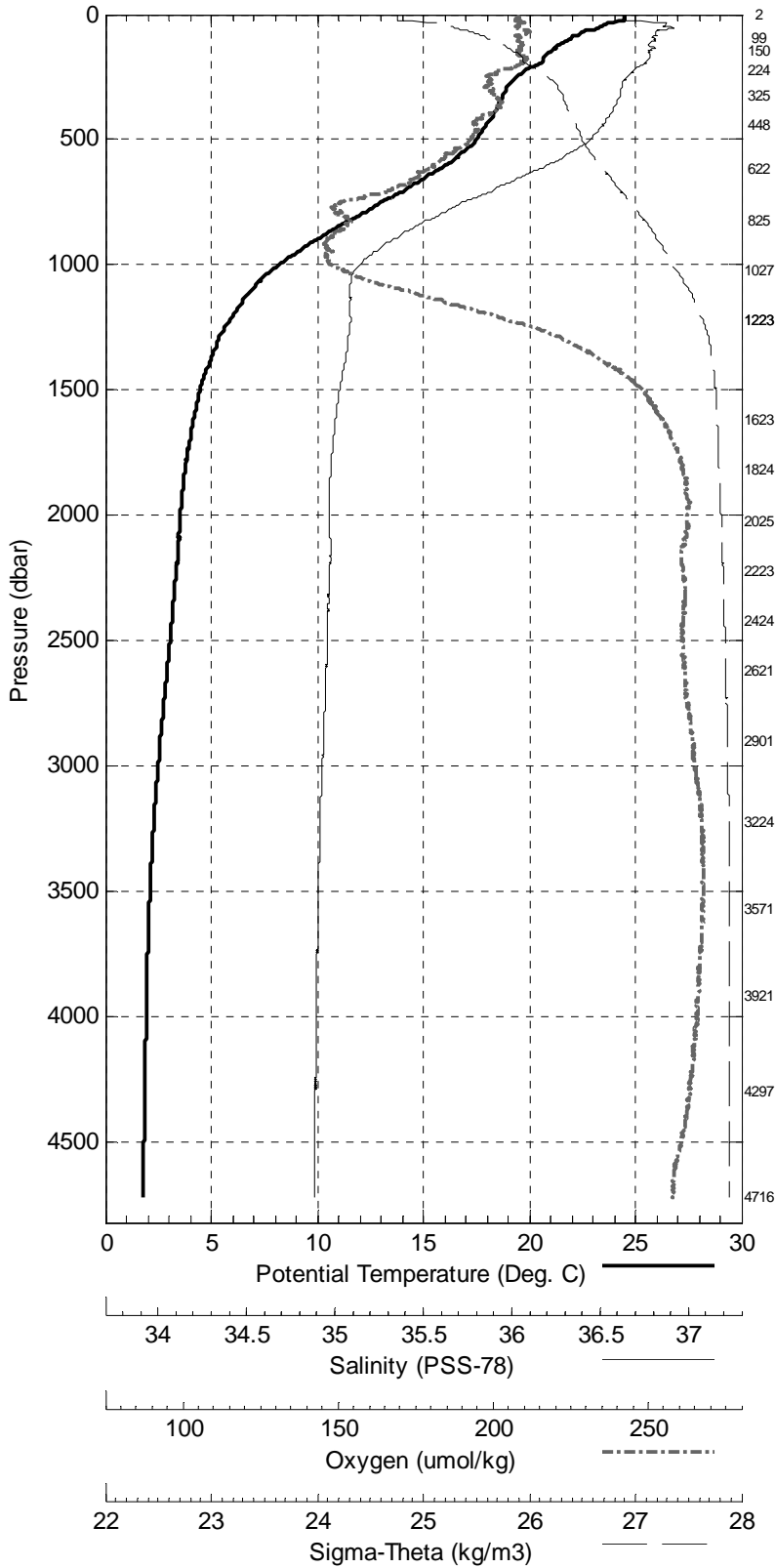


ABACO-01 R.V. Oceanus CTD
 Station 17 (CTD017)
 Latitude 26.515N Longitude 75.304W
 30-Apr-2001 07:24Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.438 | 24.437 | 36.650 | 207.9 | 0.003 | 24.760 |
| 10 | 24.445 | 24.443 | 36.651 | 207.6 | 0.032 | 24.759 |
| 20 | 24.456 | 24.452 | 36.649 | 208.2 | 0.064 | 24.755 |
| 30 | 23.941 | 23.935 | 36.804 | 209.4 | 0.095 | 25.027 |
| 50 | 23.361 | 23.350 | 36.919 | 207.7 | 0.151 | 25.287 |
| 75 | 22.403 | 22.388 | 36.829 | 209.9 | 0.216 | 25.498 |
| 100 | 21.842 | 21.822 | 36.809 | 208.0 | 0.277 | 25.643 |
| 125 | 21.309 | 21.284 | 36.777 | 208.7 | 0.335 | 25.769 |
| 150 | 20.967 | 20.938 | 36.779 | 208.2 | 0.391 | 25.866 |
| 200 | 20.410 | 20.372 | 36.740 | 208.4 | 0.497 | 25.991 |
| 250 | 19.441 | 19.395 | 36.650 | 198.5 | 0.597 | 26.181 |
| 300 | 18.942 | 18.888 | 36.620 | 199.6 | 0.691 | 26.289 |
| 400 | 18.373 | 18.302 | 36.557 | 198.2 | 0.872 | 26.389 |
| 500 | 17.576 | 17.490 | 36.442 | 192.4 | 1.046 | 26.503 |
| 600 | 16.190 | 16.093 | 36.210 | 180.4 | 1.210 | 26.657 |
| 700 | 14.230 | 14.125 | 35.898 | 166.6 | 1.359 | 26.855 |
| 800 | 12.089 | 11.981 | 35.585 | 151.5 | 1.491 | 27.047 |
| 900 | 10.033 | 9.925 | 35.319 | 146.3 | 1.604 | 27.214 |
| 1000 | 8.298 | 8.189 | 35.139 | 147.8 | 1.702 | 27.354 |
| 1100 | 6.955 | 6.845 | 35.085 | 171.6 | 1.785 | 27.507 |
| 1200 | 6.147 | 6.034 | 35.087 | 200.2 | 1.854 | 27.617 |
| 1300 | 5.436 | 5.320 | 35.075 | 223.6 | 1.914 | 27.697 |
| 1400 | 4.975 | 4.854 | 35.053 | 237.8 | 1.969 | 27.734 |
| 1500 | 4.575 | 4.448 | 35.025 | 248.6 | 2.020 | 27.758 |
| 1750 | 4.008 | 3.864 | 34.981 | 259.5 | 2.143 | 27.785 |
| 2000 | 3.701 | 3.538 | 34.970 | 262.4 | 2.262 | 27.809 |
| 2500 | 3.256 | 3.051 | 34.959 | 261.0 | 2.492 | 27.848 |
| 3000 | 2.743 | 2.498 | 34.929 | 265.0 | 2.712 | 27.873 |
| 3500 | 2.395 | 2.105 | 34.905 | 267.7 | 2.922 | 27.887 |
| 4000 | 2.278 | 1.936 | 34.895 | 265.6 | 3.133 | 27.892 |
| 4500 | 2.222 | 1.824 | 34.884 | 260.6 | 3.353 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4716 | 24 | 2.221 | 1.796 | 34.880 | 258.3 |
| 4298 | 1 | 2.245 | 1.869 | 34.889 | 262.9 |
| 3921 | 2 | 2.291 | 1.957 | 34.896 | 266.0 |
| 3571 | 3 | 2.373 | 2.076 | 34.904 | 267.9 |
| 3225 | 4 | 2.535 | 2.271 | 34.934 | 267.9 |
| 2902 | 5 | 2.830 | 2.593 | 34.952 | 264.8 |
| 2622 | 6 | 3.137 | 2.922 | 34.962 | 262.1 |
| 2425 | 7 | 3.351 | 3.152 | 34.969 | 261.0 |
| 2223 | 8 | 3.541 | 3.358 | 34.970 | 261.1 |
| 2025 | 9 | 3.714 | 3.548 | 34.971 | 262.0 |
| 1824 | 10 | 3.901 | 3.752 | 34.976 | 260.6 |
| 1623 | 11 | 4.244 | 4.109 | 35.000 | 254.2 |
| 1224 | 13 | 5.974 | 5.860 | 35.086 | 205.1 |
| 1224 | 13 | 5.974 | 5.860 | 35.086 | 205.1 |
| 1028 | 14 | 7.824 | 7.716 | 35.106 | 153.6 |
| 825 | 15 | 11.461 | 11.353 | 35.498 | 152.5 |
| 623 | 16 | 15.636 | 15.537 | 36.116 | 173.3 |
| 449 | 17 | 18.000 | 17.922 | 36.503 | 191.5 |
| 326 | 18 | 18.873 | 18.814 | 36.611 | 203.9 |
| 225 | 19 | 19.976 | 19.934 | 36.692 | 193.2 |
| 151 | 20 | 20.912 | 20.883 | 36.777 | 212.9 |
| 100 | 21 | 21.934 | 21.914 | 36.799 | 213.1 |
| 3 | 22 | 24.276 | 24.276 | 36.688 | 208.5 |

Abaco 2001 R.V. Oceanus
 CTD Station 17 (CTD017)
 Latitude 26.515 N Longitude 75.304 W
 30-Apr-2001 07:24 Z

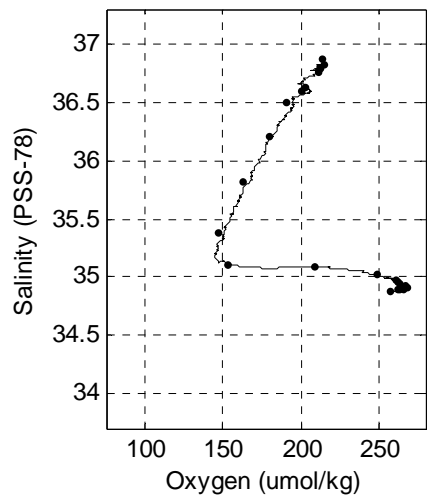
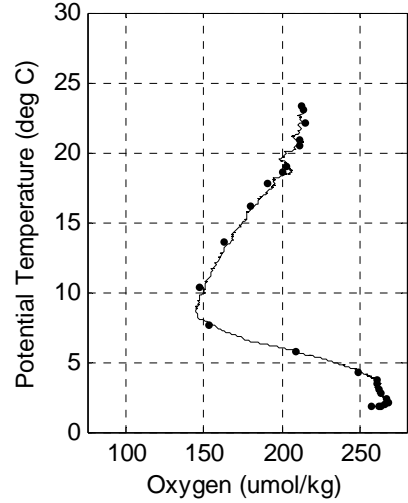
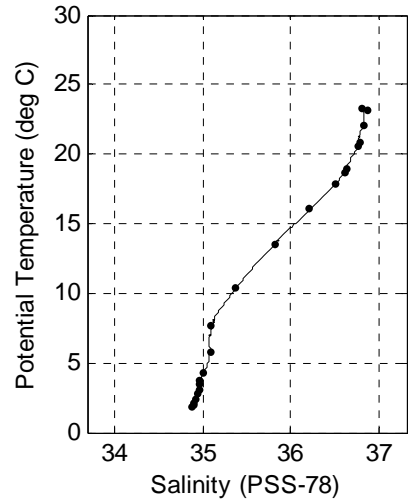
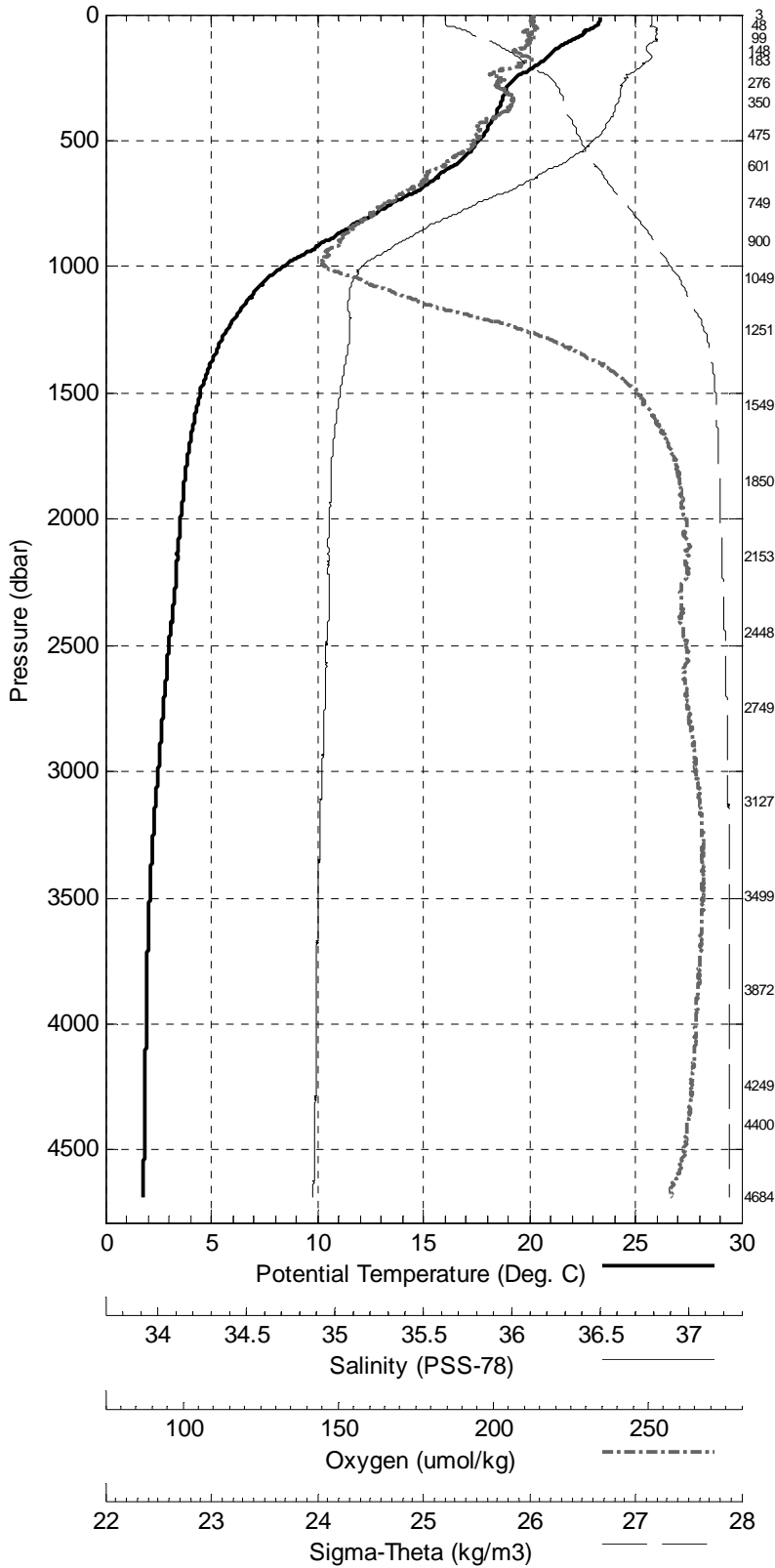


ABACO-01 R.V. Oceanus
 CTD Station 18 (CTD018)
 Latitude 26.529N Longitude 75.091W
 30-Apr-2001 12:28Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.301 | 23.300 | 36.789 | 213.5 | 0.003 | 25.203 |
| 10 | 23.309 | 23.307 | 36.790 | 212.6 | 0.028 | 25.202 |
| 20 | 23.311 | 23.307 | 36.791 | 211.9 | 0.055 | 25.203 |
| 30 | 23.308 | 23.302 | 36.790 | 212.7 | 0.083 | 25.204 |
| 50 | 23.108 | 23.097 | 36.827 | 213.2 | 0.138 | 25.292 |
| 75 | 22.535 | 22.520 | 36.824 | 212.3 | 0.203 | 25.457 |
| 100 | 22.065 | 22.045 | 36.823 | 211.2 | 0.265 | 25.591 |
| 125 | 21.451 | 21.426 | 36.767 | 210.1 | 0.324 | 25.722 |
| 150 | 21.105 | 21.075 | 36.776 | 207.6 | 0.381 | 25.826 |
| 200 | 20.396 | 20.358 | 36.745 | 208.9 | 0.489 | 25.997 |
| 250 | 19.377 | 19.332 | 36.651 | 202.6 | 0.588 | 26.198 |
| 300 | 18.957 | 18.902 | 36.618 | 203.9 | 0.682 | 26.284 |
| 400 | 18.530 | 18.459 | 36.575 | 202.4 | 0.864 | 26.364 |
| 500 | 17.624 | 17.538 | 36.450 | 193.9 | 1.040 | 26.497 |
| 600 | 16.486 | 16.387 | 36.258 | 184.8 | 1.207 | 26.626 |
| 700 | 14.796 | 14.689 | 35.984 | 172.9 | 1.361 | 26.800 |
| 800 | 12.565 | 12.454 | 35.650 | 159.8 | 1.497 | 27.006 |
| 900 | 10.414 | 10.302 | 35.370 | 150.8 | 1.615 | 27.189 |
| 1000 | 8.447 | 8.337 | 35.145 | 146.0 | 1.716 | 27.337 |
| 1100 | 7.138 | 7.027 | 35.085 | 168.0 | 1.800 | 27.482 |
| 1200 | 6.259 | 6.145 | 35.088 | 195.0 | 1.873 | 27.603 |
| 1300 | 5.536 | 5.419 | 35.078 | 220.9 | 1.934 | 27.687 |
| 1400 | 5.006 | 4.884 | 35.052 | 236.9 | 1.989 | 27.730 |
| 1500 | 4.601 | 4.474 | 35.027 | 246.9 | 2.041 | 27.757 |
| 1750 | 4.020 | 3.876 | 34.983 | 258.1 | 2.164 | 27.786 |
| 2000 | 3.702 | 3.539 | 34.964 | 262.3 | 2.284 | 27.805 |
| 2500 | 3.197 | 2.993 | 34.952 | 262.1 | 2.515 | 27.847 |
| 3000 | 2.746 | 2.500 | 34.929 | 265.3 | 2.733 | 27.873 |
| 3500 | 2.380 | 2.090 | 34.905 | 267.3 | 2.943 | 27.888 |
| 4000 | 2.271 | 1.929 | 34.894 | 265.6 | 3.154 | 27.892 |
| 4500 | 2.238 | 1.839 | 34.886 | 261.8 | 3.374 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4685 | 24 | 2.204 | 1.783 | 34.877 | 257.6 |
| 4400 | 1 | 2.246 | 1.858 | 34.888 | 261.9 |
| 4249 | 2 | 2.253 | 1.883 | 34.890 | 264.1 |
| 3873 | 3 | 2.275 | 1.948 | 34.895 | 265.8 |
| 3499 | 4 | 2.372 | 2.083 | 34.905 | 268.2 |
| 3127 | 5 | 2.608 | 2.353 | 34.919 | 267.6 |
| 2749 | 6 | 2.961 | 2.736 | 34.942 | 264.1 |
| 2448 | 7 | 3.297 | 3.097 | 34.960 | 262.2 |
| 2153 | 8 | 3.598 | 3.421 | 34.971 | 261.6 |
| 1850 | 9 | 3.878 | 3.727 | 34.976 | 261.1 |
| 1549 | 10 | 4.459 | 4.329 | 35.018 | 249.1 |
| 1252 | 11 | 5.867 | 5.752 | 35.087 | 208.5 |
| 1050 | 12 | 7.731 | 7.621 | 35.097 | 153.7 |
| 900 | 13 | 10.438 | 10.327 | 35.371 | 147.5 |
| 750 | 14 | 13.661 | 13.552 | 35.809 | 162.7 |
| 601 | 15 | 16.220 | 16.122 | 36.212 | 179.5 |
| 475 | 16 | 17.888 | 17.805 | 36.493 | 190.4 |
| 351 | 17 | 18.702 | 18.639 | 36.597 | 200.2 |
| 276 | 18 | 19.026 | 18.976 | 36.620 | 203.2 |
| 184 | 19 | 20.548 | 20.513 | 36.765 | 211.6 |
| 148 | 20 | 20.911 | 20.882 | 36.780 | 211.8 |
| 100 | 21 | 22.058 | 22.038 | 36.818 | 215.6 |
| 48 | 22 | 23.130 | 23.120 | 36.864 | 214.0 |
| 4 | 23 | 23.326 | 23.325 | 36.789 | 212.4 |

Abaco 2001 R.V. Oceanus
 CTD Station 18 (CTD018)
 Latitude 26.529 N Longitude 75.091 W
 30-Apr-2001 12:28 Z

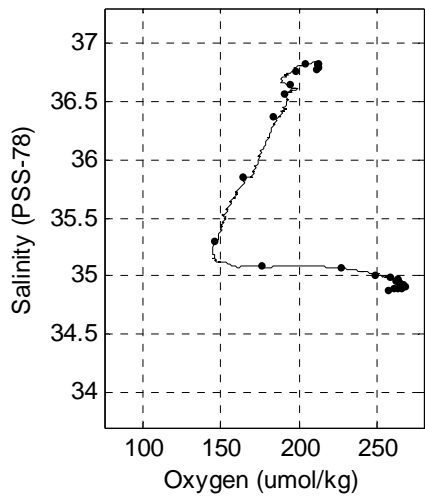
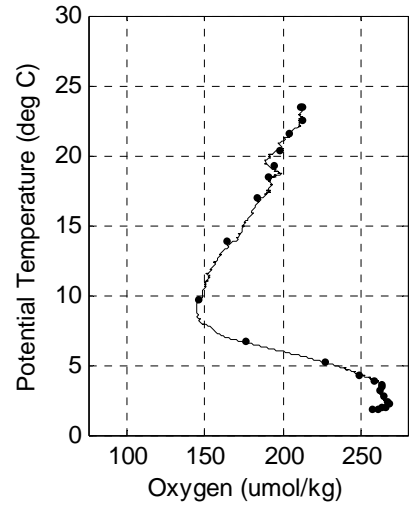
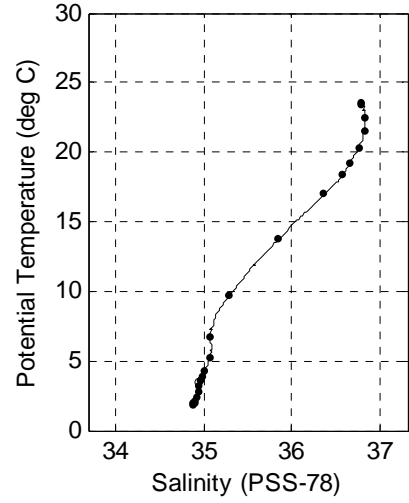
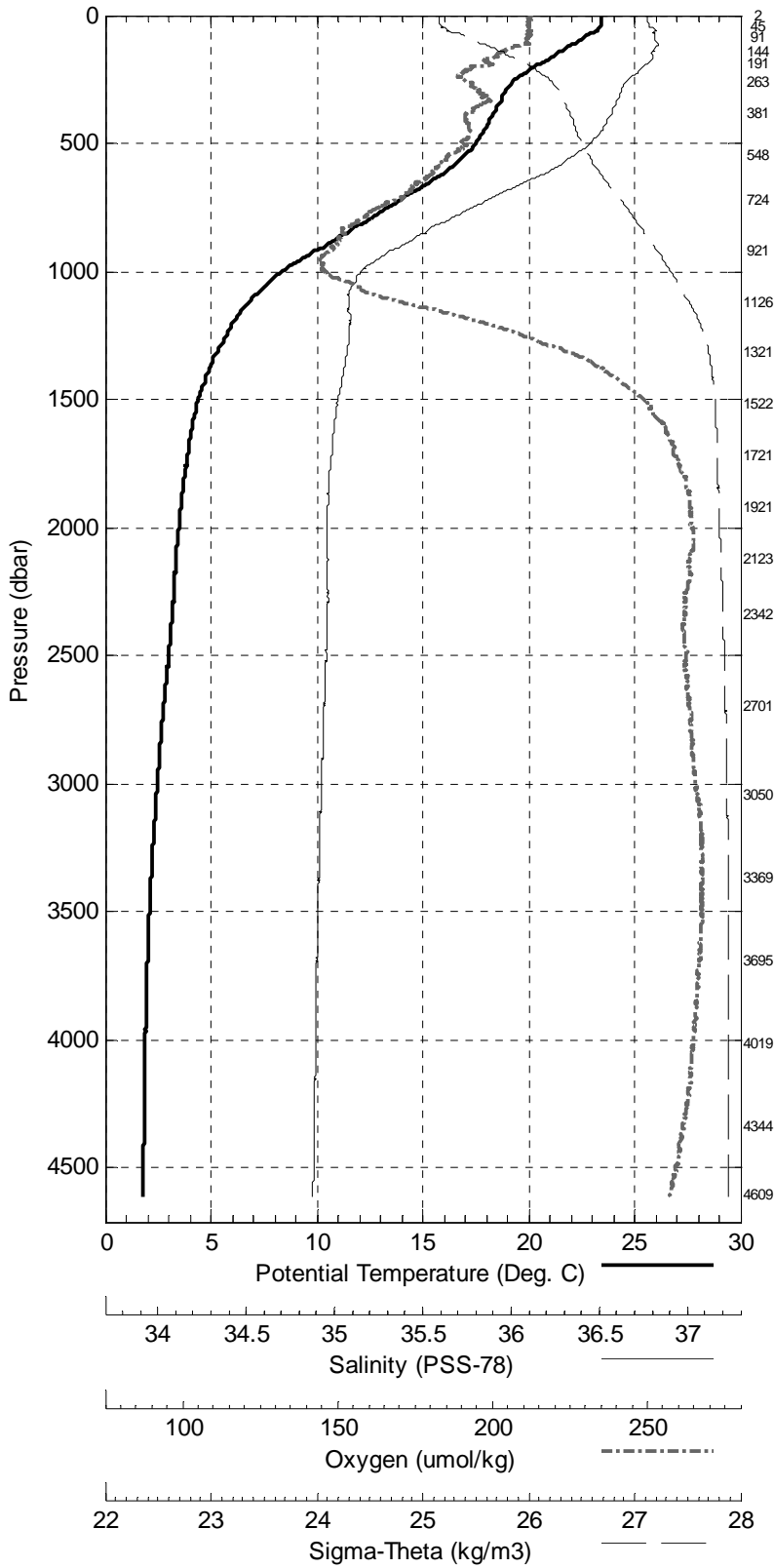


ABACO-01 R.V. Oceanus
 CTD Station 19 (CTD019)
 Latitude 26.502N Longitude 74.797W
 30-Apr-2001 17:28Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.413 | 23.413 | 36.775 | 211.8 | 0.003 | 25.160 |
| 10 | 23.416 | 23.414 | 36.777 | 211.6 | 0.028 | 25.161 |
| 20 | 23.418 | 23.414 | 36.777 | 212.4 | 0.056 | 25.161 |
| 30 | 23.412 | 23.406 | 36.779 | 211.8 | 0.084 | 25.165 |
| 50 | 23.323 | 23.313 | 36.814 | 211.7 | 0.140 | 25.219 |
| 75 | 22.769 | 22.753 | 36.803 | 212.3 | 0.208 | 25.373 |
| 100 | 22.368 | 22.348 | 36.823 | 211.5 | 0.272 | 25.505 |
| 125 | 21.789 | 21.764 | 36.817 | 206.8 | 0.333 | 25.666 |
| 150 | 21.310 | 21.281 | 36.801 | 202.1 | 0.391 | 25.788 |
| 200 | 20.263 | 20.226 | 36.746 | 193.1 | 0.499 | 26.034 |
| 250 | 19.375 | 19.330 | 36.658 | 191.2 | 0.598 | 26.204 |
| 300 | 18.911 | 18.857 | 36.619 | 195.7 | 0.691 | 26.296 |
| 400 | 18.267 | 18.197 | 36.551 | 191.7 | 0.871 | 26.412 |
| 500 | 17.581 | 17.495 | 36.444 | 190.6 | 1.045 | 26.503 |
| 600 | 16.312 | 16.214 | 36.234 | 181.4 | 1.210 | 26.648 |
| 700 | 14.385 | 14.279 | 35.922 | 171.8 | 1.361 | 26.841 |
| 800 | 12.519 | 12.409 | 35.644 | 156.2 | 1.495 | 27.010 |
| 900 | 10.510 | 10.398 | 35.378 | 148.3 | 1.613 | 27.178 |
| 1000 | 8.457 | 8.347 | 35.152 | 145.6 | 1.714 | 27.341 |
| 1100 | 7.094 | 6.983 | 35.080 | 164.6 | 1.799 | 27.484 |
| 1200 | 6.158 | 6.044 | 35.089 | 197.6 | 1.870 | 27.617 |
| 1300 | 5.473 | 5.356 | 35.075 | 221.5 | 1.930 | 27.693 |
| 1400 | 4.954 | 4.833 | 35.048 | 237.7 | 1.985 | 27.733 |
| 1500 | 4.493 | 4.367 | 35.017 | 249.3 | 2.036 | 27.760 |
| 1750 | 3.989 | 3.846 | 34.979 | 260.2 | 2.158 | 27.786 |
| 2000 | 3.643 | 3.481 | 34.957 | 264.8 | 2.277 | 27.805 |
| 2500 | 3.206 | 3.002 | 34.953 | 262.6 | 2.505 | 27.847 |
| 3000 | 2.719 | 2.474 | 34.927 | 265.6 | 2.723 | 27.874 |
| 3500 | 2.384 | 2.094 | 34.906 | 267.5 | 2.933 | 27.889 |
| 4000 | 2.246 | 1.905 | 34.892 | 264.8 | 3.142 | 27.893 |
| 4500 | 2.205 | 1.807 | 34.882 | 259.4 | 3.361 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4609 | 24 | 2.195 | 1.784 | 34.879 | 257.6 |
| 4345 | 1 | 2.218 | 1.838 | 34.885 | 260.9 |
| 4020 | 2 | 2.245 | 1.901 | 34.891 | 264.1 |
| 3695 | 3 | 2.303 | 1.994 | 34.899 | 266.6 |
| 3370 | 4 | 2.445 | 2.168 | 34.910 | 268.0 |
| 3050 | 5 | 2.669 | 2.421 | 34.923 | 266.7 |
| 2701 | 6 | 2.972 | 2.753 | 34.939 | 264.5 |
| 2343 | 7 | 3.338 | 3.148 | 34.956 | 262.7 |
| 2123 | 8 | 3.569 | 3.396 | 34.956 | 263.5 |
| 1922 | 9 | 3.747 | 3.591 | 34.966 | 263.0 |
| 1722 | 10 | 4.037 | 3.895 | 34.981 | 258.6 |
| 1522 | 11 | 4.442 | 4.315 | 35.012 | 249.6 |
| 1322 | 12 | 5.283 | 5.166 | 35.064 | 227.6 |
| 1126 | 13 | 6.778 | 6.667 | 35.081 | 176.3 |
| 921 | 14 | 9.803 | 9.693 | 35.293 | 145.4 |
| 724 | 15 | 13.914 | 13.807 | 35.845 | 163.9 |
| 549 | 16 | 17.108 | 17.016 | 36.361 | 183.4 |
| 381 | 17 | 18.440 | 18.373 | 36.568 | 191.2 |
| 263 | 18 | 19.258 | 19.210 | 36.646 | 194.8 |
| 191 | 19 | 20.392 | 20.356 | 36.750 | 198.3 |
| 145 | 20 | 21.583 | 21.554 | 36.824 | 204.5 |
| 92 | 21 | 22.508 | 22.489 | 36.815 | 213.1 |
| 46 | 22 | 23.430 | 23.420 | 36.782 | 212.1 |
| 3 | 23 | 23.500 | 23.500 | 36.777 | 211.7 |

Abaco 2001 R.V. Oceanus
 CTD Station 19 (CTD019)
 Latitude 26.502 N Longitude 74.797 W
 30-Apr-2001 17:28 Z

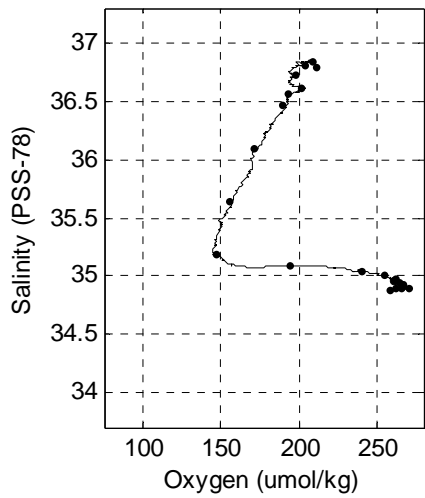
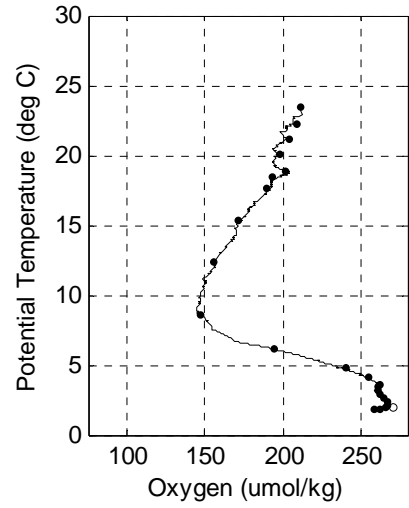
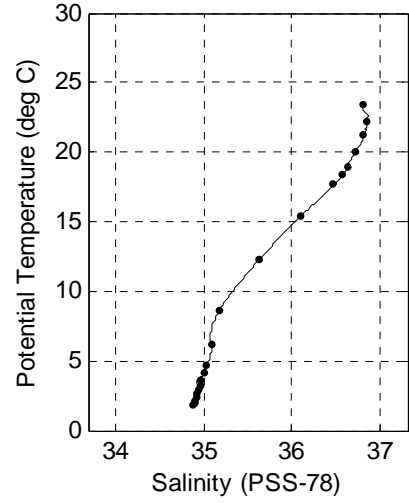
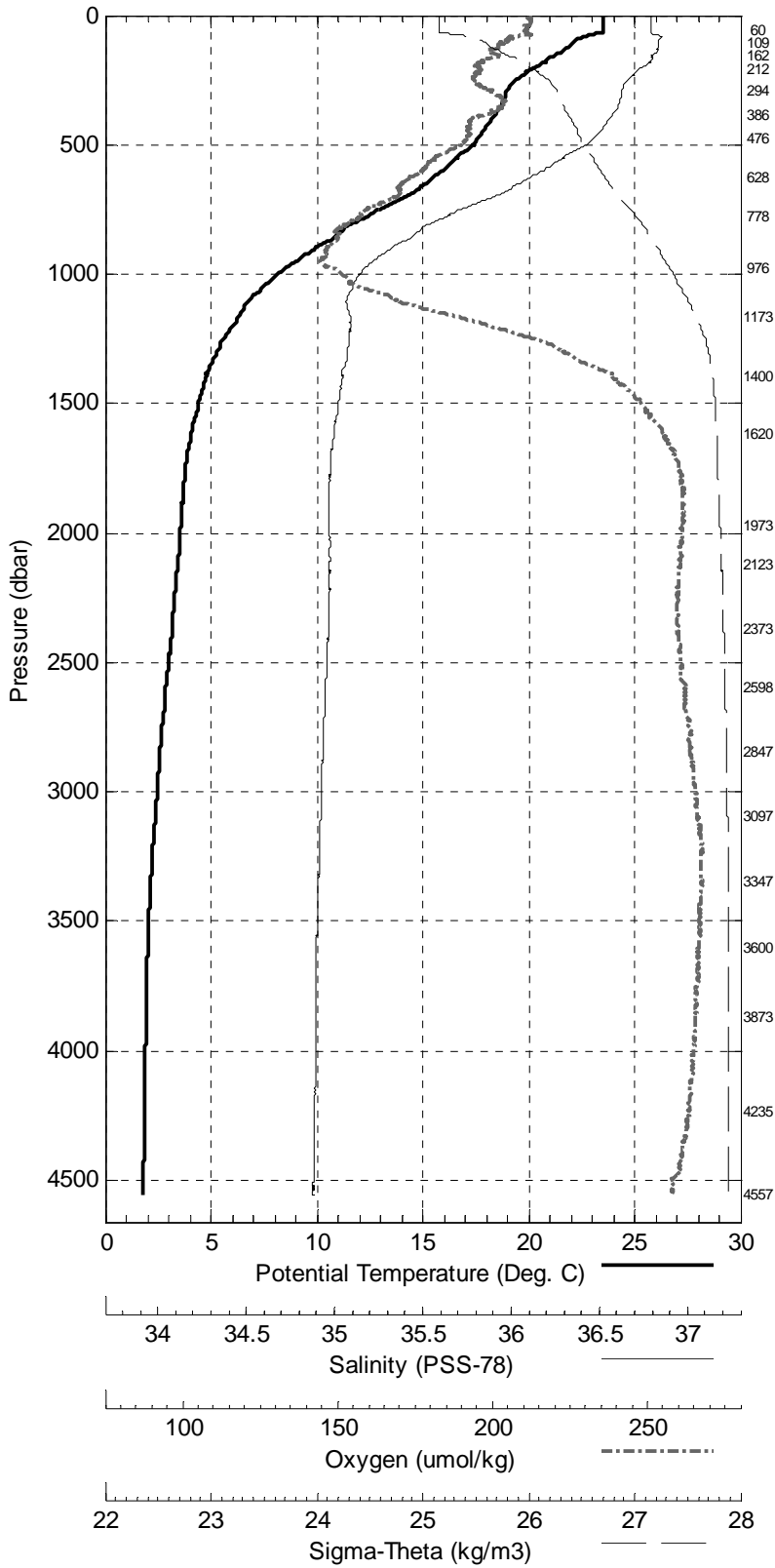


ABACO-01 R.V. Oceanus
 CTD Station 20 (CTD020)
 Latitude 26.512N Longitude 74.518W
 30-Apr-2001 22:57Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.488 | 23.488 | 36.793 | 211.9 | 0.003 | 25.152 |
| 10 | 23.496 | 23.494 | 36.795 | 212.3 | 0.028 | 25.151 |
| 20 | 23.500 | 23.496 | 36.795 | 212.2 | 0.056 | 25.151 |
| 30 | 23.502 | 23.496 | 36.795 | 211.4 | 0.084 | 25.151 |
| 50 | 23.502 | 23.491 | 36.796 | 210.5 | 0.141 | 25.152 |
| 75 | 22.844 | 22.829 | 36.818 | 210.7 | 0.211 | 25.363 |
| 100 | 22.183 | 22.163 | 36.834 | 205.1 | 0.274 | 25.566 |
| 125 | 21.878 | 21.853 | 36.834 | 202.2 | 0.334 | 25.653 |
| 150 | 21.297 | 21.268 | 36.800 | 201.7 | 0.392 | 25.791 |
| 200 | 20.316 | 20.278 | 36.737 | 195.4 | 0.499 | 26.013 |
| 250 | 19.407 | 19.361 | 36.655 | 194.4 | 0.599 | 26.194 |
| 300 | 18.992 | 18.938 | 36.623 | 200.8 | 0.692 | 26.279 |
| 400 | 18.332 | 18.262 | 36.557 | 193.6 | 0.874 | 26.400 |
| 500 | 17.461 | 17.376 | 36.423 | 189.2 | 1.047 | 26.516 |
| 600 | 16.009 | 15.912 | 36.180 | 176.9 | 1.210 | 26.676 |
| 700 | 14.274 | 14.169 | 35.903 | 168.3 | 1.359 | 26.849 |
| 800 | 11.861 | 11.754 | 35.553 | 153.7 | 1.489 | 27.066 |
| 900 | 9.964 | 9.856 | 35.313 | 146.4 | 1.602 | 27.221 |
| 1000 | 8.176 | 8.068 | 35.140 | 151.9 | 1.699 | 27.374 |
| 1100 | 6.869 | 6.761 | 35.067 | 168.9 | 1.782 | 27.505 |
| 1200 | 6.100 | 5.987 | 35.088 | 199.3 | 1.851 | 27.624 |
| 1300 | 5.386 | 5.270 | 35.072 | 223.4 | 1.911 | 27.701 |
| 1400 | 4.891 | 4.770 | 35.046 | 238.9 | 1.965 | 27.738 |
| 1500 | 4.519 | 4.392 | 35.022 | 248.4 | 2.015 | 27.762 |
| 1750 | 3.934 | 3.792 | 34.975 | 260.3 | 2.137 | 27.788 |
| 2000 | 3.708 | 3.545 | 34.972 | 261.2 | 2.255 | 27.811 |
| 2500 | 3.185 | 2.982 | 34.955 | 260.8 | 2.483 | 27.851 |
| 3000 | 2.695 | 2.451 | 34.926 | 265.5 | 2.699 | 27.875 |
| 3500 | 2.334 | 2.046 | 34.901 | 266.8 | 2.907 | 27.889 |
| 4000 | 2.251 | 1.910 | 34.892 | 264.7 | 3.116 | 27.893 |
| 4500 | 2.186 | 1.788 | 34.879 | 258.2 | 3.335 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4557 | 24 | 2.193 | 1.788 | 34.879 | 258.3 |
| 4236 | 1 | 2.234 | 1.866 | 34.888 | 262.7 |
| 3874 | 2 | 2.267 | 1.939 | 34.895 | 265.7 |
| 3600 | 3 | 2.311 | 2.012 | 34.899 | 271.0 |
| 3348 | 4 | 2.435 | 2.161 | 34.910 | 267.9 |
| 3098 | 5 | 2.623 | 2.371 | 34.921 | 267.1 |
| 2848 | 6 | 2.827 | 2.596 | 34.934 | 264.7 |
| 2599 | 7 | 3.088 | 2.877 | 34.949 | 262.5 |
| 2373 | 8 | 3.326 | 3.133 | 34.964 | 260.8 |
| 2123 | 9 | 3.584 | 3.410 | 34.959 | 261.4 |
| 1974 | 10 | 3.731 | 3.570 | 34.972 | 262.0 |
| 1621 | 11 | 4.210 | 4.076 | 35.000 | 255.1 |
| 1400 | 12 | 4.843 | 4.722 | 35.041 | 240.0 |
| 1174 | 13 | 6.301 | 6.189 | 35.089 | 194.9 |
| 976 | 14 | 8.705 | 8.596 | 35.178 | 146.6 |
| 778 | 15 | 12.420 | 12.313 | 35.638 | 156.1 |
| 629 | 16 | 15.466 | 15.367 | 36.091 | 171.9 |
| 477 | 17 | 17.742 | 17.659 | 36.469 | 189.1 |
| 386 | 18 | 18.458 | 18.390 | 36.567 | 193.7 |
| 295 | 19 | 18.945 | 18.892 | 36.619 | 202.1 |
| 213 | 20 | 20.120 | 20.080 | 36.721 | 197.7 |
| 162 | 21 | 21.228 | 21.197 | 36.799 | 203.7 |
| 110 | 22 | 22.215 | 22.193 | 36.838 | 209.3 |
| 60 | 23 | 23.406 | 23.394 | 36.795 | 211.4 |

Abaco 2001 R.V. Oceanus
 CTD Station 20 (CTD020)
 Latitude 26.512 N Longitude 74.518 W
 30-Apr-2001 22:57 Z

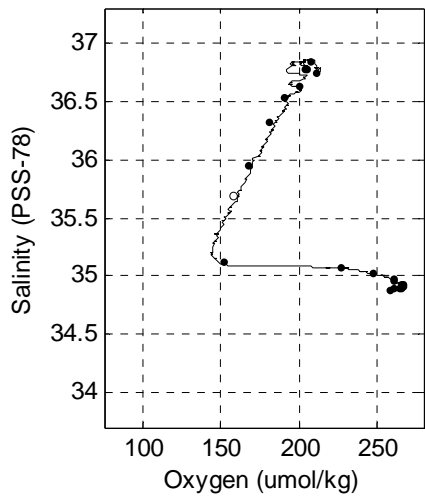
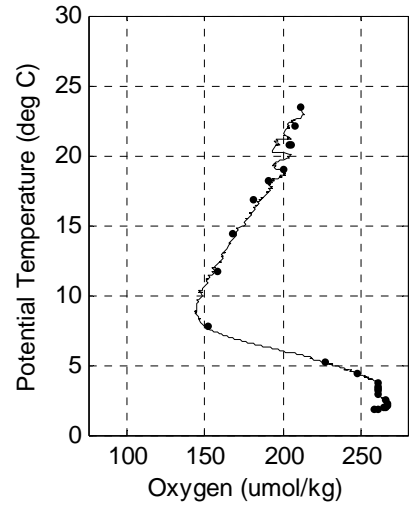
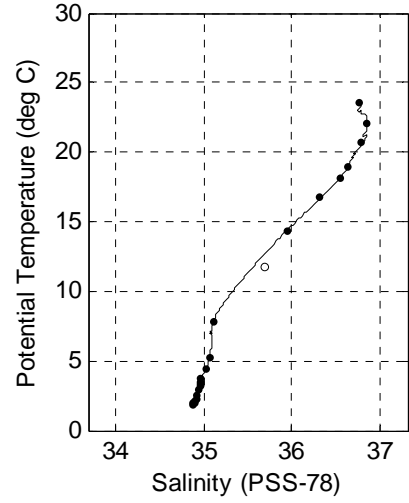
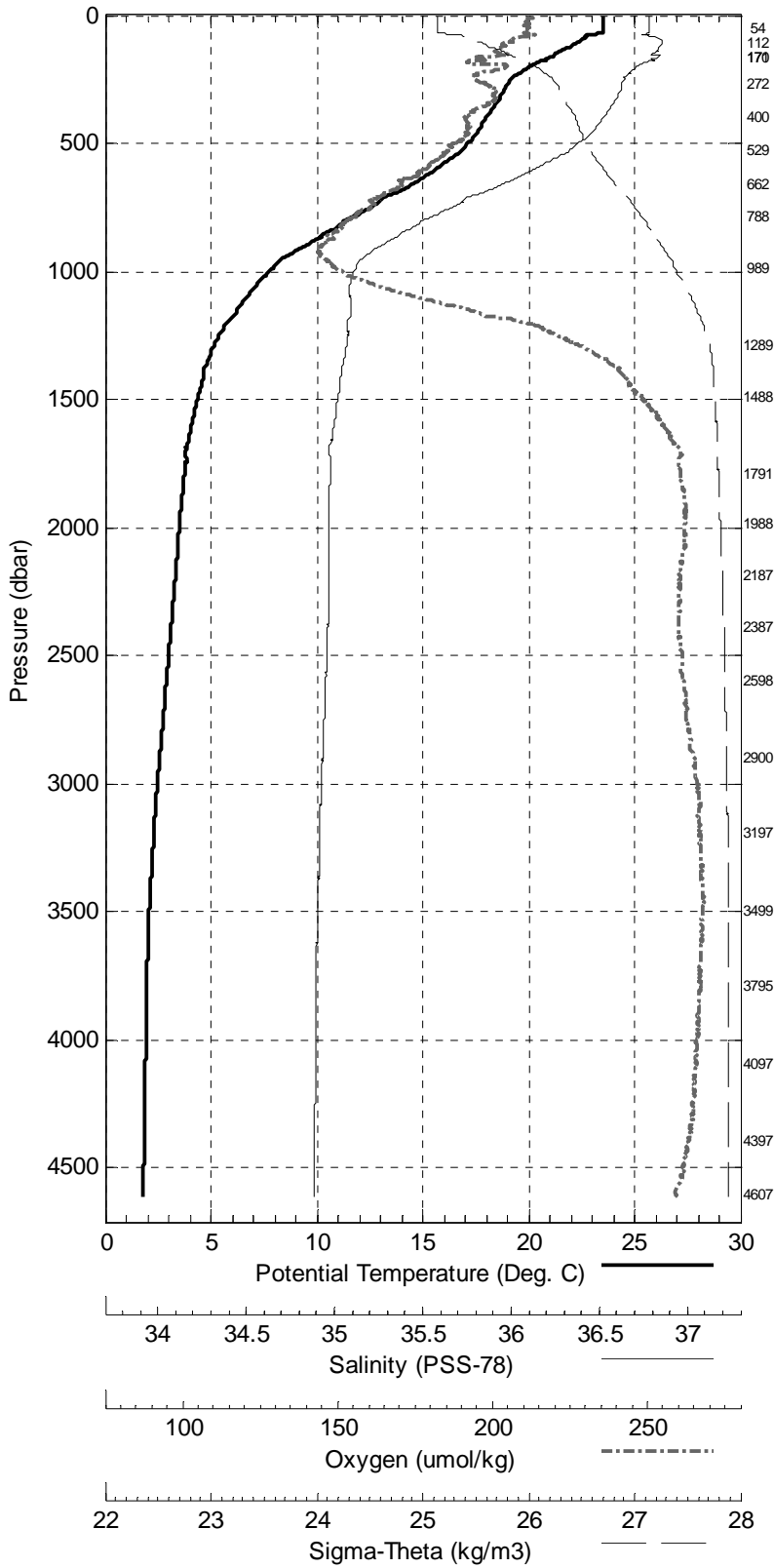


ABACO-01 R.V. Oceanus
 CTD Station 21 (CTD021)
 Latitude 26.519N Longitude 74.243W
 01-May-2001 04:33Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.509 | 23.509 | 36.782 | 212.4 | 0.003 | 25.137 |
| 10 | 23.516 | 23.514 | 36.783 | 211.5 | 0.028 | 25.136 |
| 20 | 23.516 | 23.512 | 36.783 | 211.1 | 0.056 | 25.137 |
| 30 | 23.519 | 23.512 | 36.784 | 212.0 | 0.085 | 25.138 |
| 50 | 23.521 | 23.511 | 36.784 | 210.4 | 0.141 | 25.138 |
| 75 | 22.966 | 22.950 | 36.782 | 213.8 | 0.212 | 25.300 |
| 100 | 22.439 | 22.419 | 36.852 | 205.9 | 0.276 | 25.507 |
| 125 | 21.921 | 21.896 | 36.846 | 203.3 | 0.337 | 25.650 |
| 150 | 21.252 | 21.222 | 36.799 | 205.5 | 0.395 | 25.803 |
| 200 | 20.021 | 19.983 | 36.711 | 204.1 | 0.501 | 26.072 |
| 250 | 19.205 | 19.160 | 36.640 | 194.9 | 0.597 | 26.234 |
| 300 | 18.852 | 18.799 | 36.616 | 200.4 | 0.689 | 26.309 |
| 400 | 18.056 | 17.986 | 36.521 | 191.3 | 0.867 | 26.441 |
| 500 | 17.179 | 17.095 | 36.375 | 187.5 | 1.037 | 26.547 |
| 600 | 15.684 | 15.589 | 36.128 | 177.6 | 1.197 | 26.710 |
| 700 | 13.562 | 13.461 | 35.795 | 164.1 | 1.342 | 26.915 |
| 800 | 11.454 | 11.350 | 35.502 | 152.8 | 1.467 | 27.102 |
| 900 | 9.486 | 9.381 | 35.254 | 144.7 | 1.576 | 27.255 |
| 1000 | 7.827 | 7.722 | 35.108 | 151.8 | 1.668 | 27.400 |
| 1100 | 6.774 | 6.666 | 35.090 | 176.2 | 1.747 | 27.536 |
| 1200 | 5.829 | 5.719 | 35.073 | 210.9 | 1.814 | 27.646 |
| 1300 | 5.183 | 5.069 | 35.064 | 230.2 | 1.871 | 27.718 |
| 1400 | 4.769 | 4.650 | 35.038 | 241.8 | 1.923 | 27.746 |
| 1500 | 4.467 | 4.341 | 35.017 | 248.5 | 1.973 | 27.763 |
| 1750 | 3.935 | 3.792 | 34.978 | 260.2 | 2.094 | 27.790 |
| 2000 | 3.658 | 3.495 | 34.968 | 261.7 | 2.212 | 27.812 |
| 2500 | 3.198 | 2.994 | 34.955 | 261.3 | 2.438 | 27.850 |
| 3000 | 2.707 | 2.463 | 34.925 | 266.4 | 2.656 | 27.873 |
| 3500 | 2.361 | 2.072 | 34.903 | 267.8 | 2.866 | 27.888 |
| 4000 | 2.266 | 1.924 | 34.893 | 266.2 | 3.076 | 27.892 |
| 4500 | 2.223 | 1.824 | 34.884 | 261.6 | 3.296 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4608 | 24 | 2.206 | 1.795 | 34.881 | 258.5 |
| 4397 | 1 | 2.238 | 1.851 | 34.887 | 261.6 |
| 4097 | 2 | 2.263 | 1.910 | 34.892 | 264.6 |
| 3795 | 3 | 2.289 | 1.970 | 34.897 | 265.9 |
| 3499 | 4 | 2.362 | 2.073 | 34.904 | 267.9 |
| 3198 | 5 | 2.555 | 2.293 | 34.918 | 267.4 |
| 2901 | 6 | 2.799 | 2.563 | 34.932 | 265.9 |
| 2598 | 7 | 3.109 | 2.897 | 34.952 | 261.7 |
| 2388 | 8 | 3.327 | 3.133 | 34.964 | 260.7 |
| 2187 | 9 | 3.497 | 3.319 | 34.968 | 261.7 |
| 1989 | 10 | 3.688 | 3.526 | 34.972 | 261.7 |
| 1791 | 11 | 3.881 | 3.735 | 34.975 | 261.0 |
| 1488 | 12 | 4.514 | 4.389 | 35.024 | 247.9 |
| 1289 | 13 | 5.275 | 5.161 | 35.069 | 227.6 |
| 990 | 14 | 7.933 | 7.828 | 35.113 | 151.8 |
| 788 | 15 | 11.784 | 11.679 | 35.683 | 158.5 |
| 662 | 16 | 14.484 | 14.384 | 35.945 | 168.3 |
| 529 | 17 | 16.824 | 16.736 | 36.316 | 180.7 |
| 401 | 18 | 18.179 | 18.109 | 36.534 | 190.5 |
| 273 | 19 | 19.014 | 18.965 | 36.623 | 200.1 |
| 170 | 20 | 20.748 | 20.715 | 36.781 | 205.2 |
| 171 | 21 | 20.713 | 20.681 | 36.778 | 204.8 |
| 113 | 22 | 22.080 | 22.058 | 36.842 | 207.9 |
| 55 | 23 | 23.512 | 23.500 | 36.748 | 211.2 |

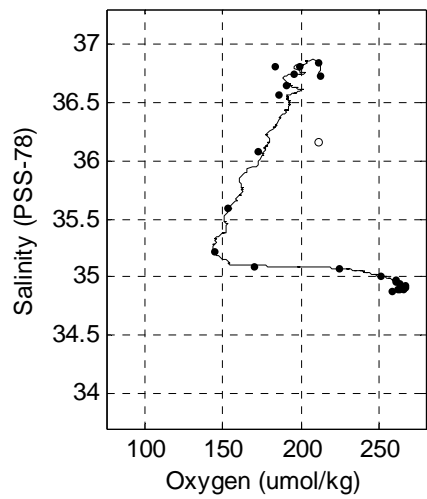
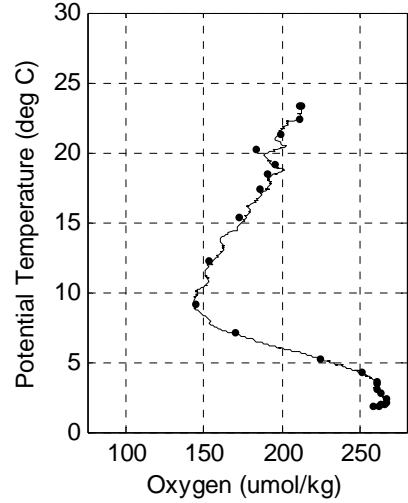
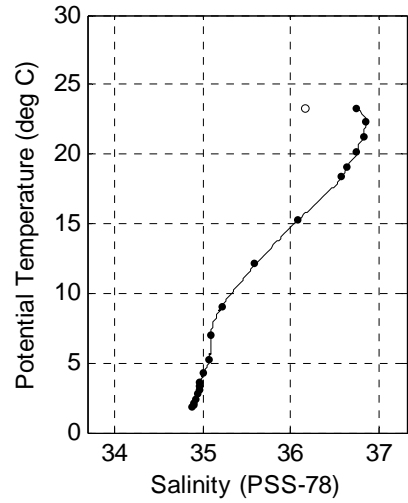
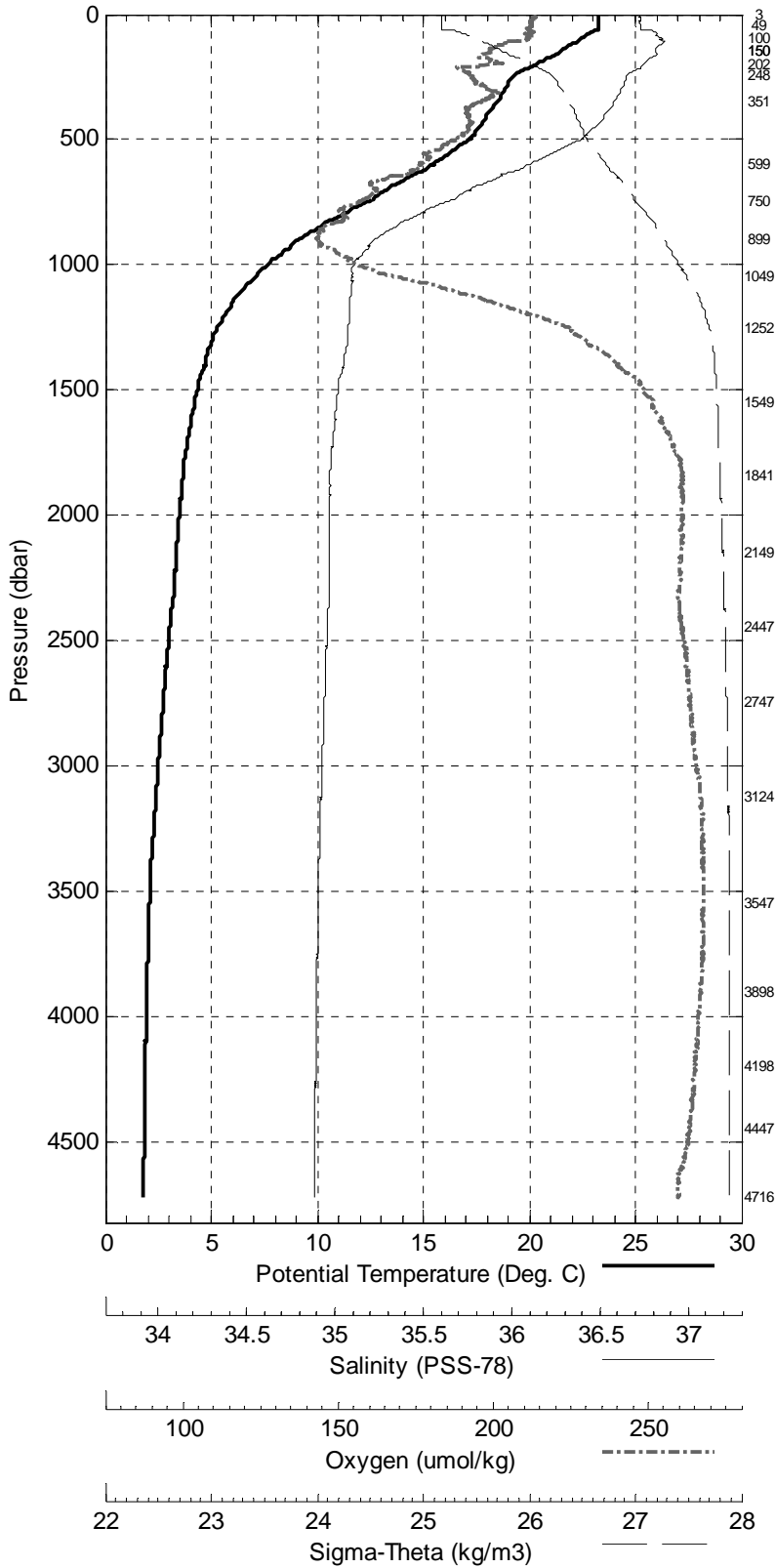
Abaco 2001 R.V. Oceanus
 CTD Station 21 (CTD021)
 Latitude 26.519 N Longitude 74.243 W
 01-May-2001 04:33 Z



ABACO-01 R.V. Oceanus
 CTD Station 22 (CTD022)
 Latitude 26.518N Longitude 73.963W
 01-May-2001 09:58Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|--------------------|---|----------------------------|
| 1 | 23.243 | 23.242 | 36.726 | 213.2 | 0.003 | 25.172 |
| 10 | 23.254 | 23.251 | 36.727 | 213.7 | 0.028 | 25.170 |
| 20 | 23.262 | 23.258 | 36.726 | 212.9 | 0.056 | 25.168 |
| 30 | 23.264 | 23.258 | 36.726 | 212.2 | 0.084 | 25.168 |
| 50 | 23.264 | 23.253 | 36.727 | 212.3 | 0.140 | 25.170 |
| 75 | 22.825 | 22.810 | 36.827 | 210.2 | 0.208 | 25.376 |
| 100 | 22.404 | 22.383 | 36.848 | 210.8 | 0.272 | 25.514 |
| 125 | 21.836 | 21.811 | 36.829 | 201.7 | 0.333 | 25.662 |
| 150 | 21.446 | 21.416 | 36.816 | 200.0 | 0.391 | 25.762 |
| 200 | 20.284 | 20.246 | 36.742 | 196.3 | 0.500 | 26.025 |
| 250 | 19.226 | 19.180 | 36.648 | 193.5 | 0.597 | 26.235 |
| 300 | 18.876 | 18.822 | 36.618 | 197.7 | 0.690 | 26.305 |
| 400 | 18.074 | 18.004 | 36.528 | 191.9 | 0.868 | 26.442 |
| 500 | 17.201 | 17.116 | 36.383 | 187.4 | 1.038 | 26.548 |
| 600 | 15.482 | 15.387 | 36.095 | 177.0 | 1.196 | 26.730 |
| 700 | 13.366 | 13.266 | 35.764 | 162.4 | 1.337 | 26.931 |
| 800 | 11.211 | 11.108 | 35.467 | 151.8 | 1.460 | 27.120 |
| 900 | 9.142 | 9.039 | 35.217 | 144.1 | 1.566 | 27.282 |
| 1000 | 7.717 | 7.612 | 35.108 | 156.6 | 1.656 | 27.416 |
| 1100 | 6.545 | 6.438 | 35.091 | 186.0 | 1.732 | 27.567 |
| 1200 | 5.753 | 5.643 | 35.085 | 212.7 | 1.796 | 27.665 |
| 1300 | 5.159 | 5.045 | 35.068 | 229.9 | 1.851 | 27.724 |
| 1400 | 4.817 | 4.697 | 35.048 | 240.3 | 1.903 | 27.749 |
| 1500 | 4.471 | 4.345 | 35.021 | 248.7 | 1.953 | 27.766 |
| 1750 | 3.928 | 3.786 | 34.977 | 259.1 | 2.073 | 27.791 |
| 2000 | 3.653 | 3.490 | 34.970 | 261.0 | 2.190 | 27.814 |
| 2500 | 3.177 | 2.973 | 34.953 | 261.7 | 2.416 | 27.850 |
| 3000 | 2.741 | 2.496 | 34.928 | 265.6 | 2.635 | 27.873 |
| 3500 | 2.399 | 2.109 | 34.906 | 267.7 | 2.846 | 27.888 |
| 4000 | 2.276 | 1.934 | 34.895 | 266.4 | 3.058 | 27.892 |
| 4500 | 2.238 | 1.839 | 34.886 | 262.7 | 3.278 | 27.893 |
| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | |
| 4717 | 24 | 2.229 | 1.804 | 34.882 | 258.9 | |
| 4448 | 1 | 2.243 | 1.850 | 34.886 | 261.8 | |
| 4198 | 2 | 2.260 | 1.896 | 34.890 | 264.0 | |
| 3898 | 3 | 2.291 | 1.961 | 34.896 | 266.1 | |
| 3548 | 4 | 2.389 | 2.095 | 34.905 | 267.6 | |
| 3125 | 5 | 2.637 | 2.381 | 34.921 | 267.3 | |
| 2747 | 6 | 2.946 | 2.723 | 34.940 | 264.1 | |
| 2448 | 7 | 3.256 | 3.056 | 34.957 | 261.7 | |
| 2149 | 8 | 3.554 | 3.378 | 34.969 | 261.7 | |
| 1842 | 9 | 3.786 | 3.637 | 34.972 | 261.6 | |
| 1550 | 10 | 4.345 | 4.216 | 35.012 | 251.4 | |
| 1252 | 11 | 5.338 | 5.227 | 35.073 | 224.2 | |
| 1050 | 12 | 7.105 | 7.000 | 35.093 | 170.6 | |
| 900 | 13 | 9.172 | 9.069 | 35.220 | 144.8 | |
| 750 | 14 | 12.219 | 12.117 | 35.593 | 153.2 | |
| 599 | 15 | 15.352 | 15.258 | 36.070 | 173.1 | |
| 351 | 17 | 18.441 | 18.379 | 36.567 | 185.7 | |
| 248 | 18 | 19.163 | 19.118 | 36.637 | 191.3 | |
| 202 | 19 | 20.189 | 20.151 | 36.732 | 196.0 | |
| 151 | 20 | 21.272 | 21.243 | 36.812 | 183.2 | |
| 151 | 20 | 21.272 | 21.243 | 36.812 | 198.8 | |
| 101 | 21 | 22.340 | 22.319 | 36.836 | 211.5 | |
| 50 | 22 | 23.250 | 23.240 | 36.726 | 212.1 | |
| 4 | 23 | 23.233 | 23.232 | 36.150 | 211.8 | |

Abaco 2001 R.V. Oceanus
 CTD Station 22 (CTD022)
 Latitude 26.518 N Longitude 73.963 W
 01-May-2001 09:58 Z

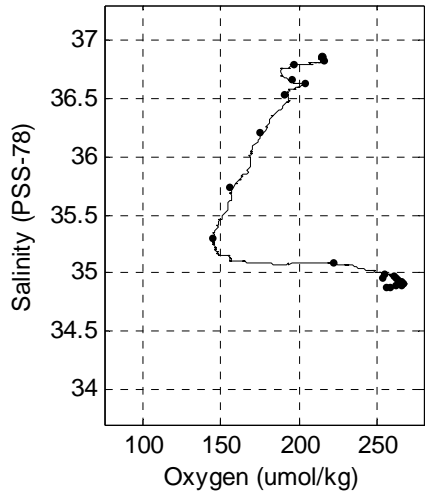
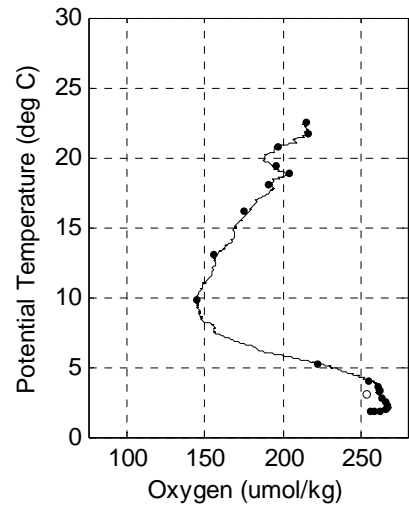
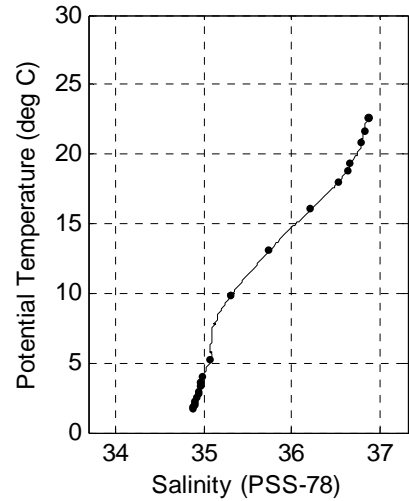
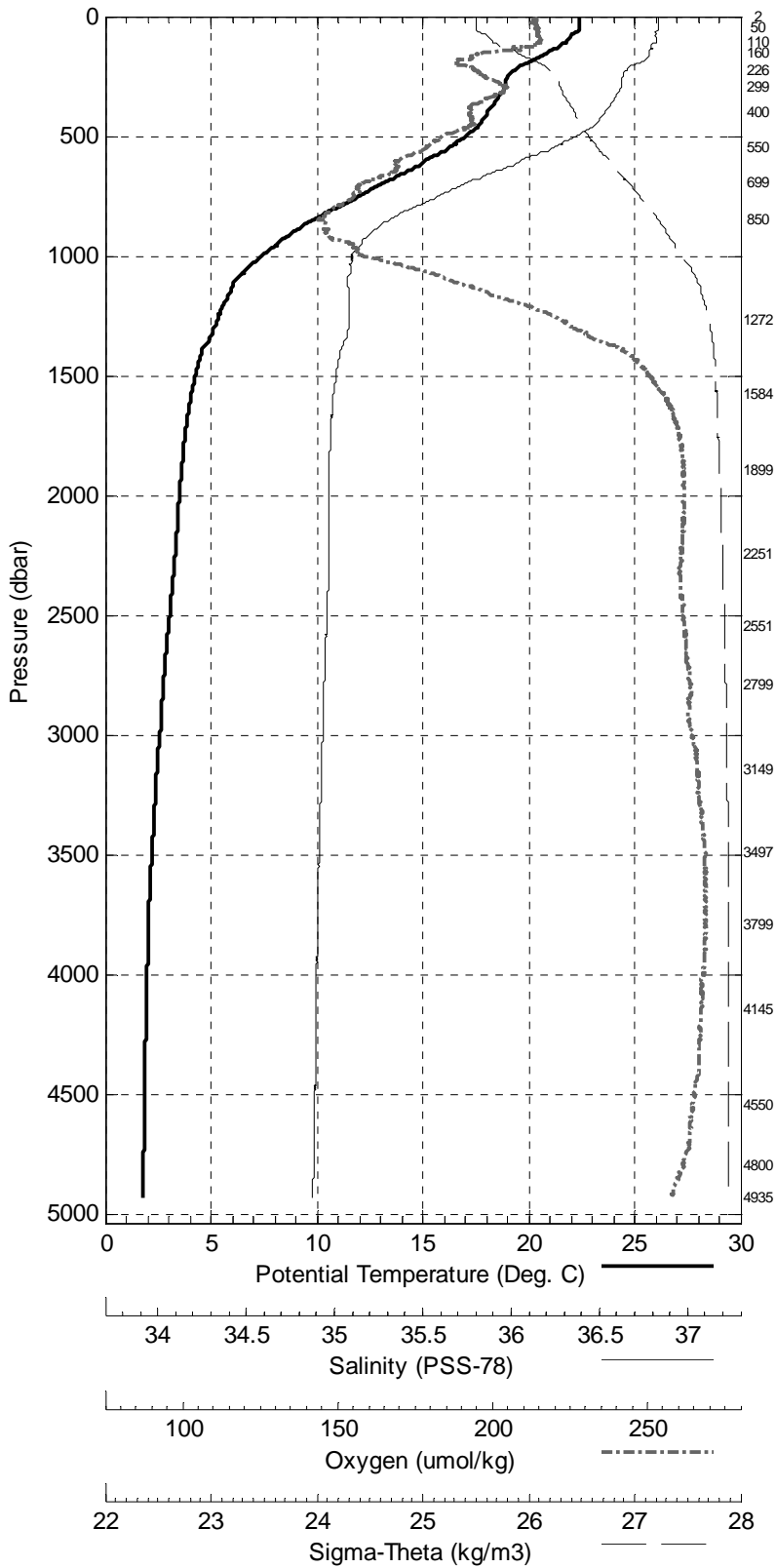


ABACO-01 R.V. Oceanus
 CTD Station 23 (CTD023)
 Latitude 26.519N Longitude 73.588W
 01-May-2001 15:43Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 22.381 | 22.381 | 36.837 | 213.9 | 0.002 | 25.506 |
| 10 | 22.387 | 22.385 | 36.839 | 213.8 | 0.025 | 25.506 |
| 20 | 22.389 | 22.385 | 36.839 | 214.1 | 0.049 | 25.506 |
| 30 | 22.392 | 22.386 | 36.839 | 213.2 | 0.074 | 25.506 |
| 50 | 22.387 | 22.377 | 36.838 | 215.0 | 0.124 | 25.508 |
| 75 | 22.039 | 22.024 | 36.813 | 214.6 | 0.185 | 25.589 |
| 100 | 21.857 | 21.837 | 36.823 | 215.9 | 0.245 | 25.650 |
| 125 | 21.482 | 21.457 | 36.807 | 210.6 | 0.304 | 25.744 |
| 150 | 20.882 | 20.854 | 36.793 | 197.2 | 0.359 | 25.900 |
| 200 | 19.764 | 19.727 | 36.700 | 188.2 | 0.462 | 26.132 |
| 250 | 19.091 | 19.046 | 36.634 | 196.9 | 0.557 | 26.259 |
| 300 | 18.873 | 18.819 | 36.620 | 203.8 | 0.648 | 26.307 |
| 400 | 18.109 | 18.039 | 36.531 | 192.6 | 0.827 | 26.435 |
| 500 | 17.109 | 17.024 | 36.371 | 183.6 | 0.997 | 26.561 |
| 600 | 15.209 | 15.115 | 36.057 | 169.2 | 1.154 | 26.761 |
| 700 | 13.101 | 13.002 | 35.728 | 157.2 | 1.293 | 26.957 |
| 800 | 11.015 | 10.913 | 35.442 | 148.6 | 1.414 | 27.136 |
| 900 | 8.965 | 8.863 | 35.205 | 146.5 | 1.517 | 27.301 |
| 1000 | 7.445 | 7.342 | 35.097 | 158.5 | 1.605 | 27.447 |
| 1100 | 6.240 | 6.137 | 35.071 | 186.4 | 1.678 | 27.592 |
| 1200 | 5.722 | 5.612 | 35.086 | 209.1 | 1.740 | 27.669 |
| 1300 | 5.274 | 5.159 | 35.078 | 225.8 | 1.795 | 27.718 |
| 1400 | 4.682 | 4.563 | 35.032 | 242.7 | 1.848 | 27.751 |
| 1500 | 4.377 | 4.252 | 35.009 | 250.8 | 1.897 | 27.766 |
| 1750 | 3.911 | 3.769 | 34.976 | 260.6 | 2.017 | 27.791 |
| 2000 | 3.659 | 3.497 | 34.969 | 261.8 | 2.134 | 27.813 |
| 2500 | 3.250 | 3.046 | 34.957 | 261.3 | 2.364 | 27.846 |
| 3000 | 2.825 | 2.578 | 34.933 | 264.4 | 2.586 | 27.870 |
| 3500 | 2.498 | 2.205 | 34.912 | 268.7 | 2.802 | 27.885 |
| 4000 | 2.317 | 1.974 | 34.898 | 267.9 | 3.017 | 27.892 |
| 4500 | 2.268 | 1.868 | 34.889 | 265.3 | 3.239 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 4936 | 24 | 2.209 | 1.758 | 34.875 | 256.2 |
| 4800 | 1 | 2.243 | 1.807 | 34.881 | 259.1 |
| 4550 | 2 | 2.268 | 1.862 | 34.888 | 262.5 |
| 4146 | 3 | 2.297 | 1.938 | 34.894 | 265.5 |
| 3800 | 4 | 2.382 | 2.059 | 34.903 | 267.8 |
| 3498 | 5 | 2.499 | 2.207 | 34.912 | 267.3 |
| 3150 | 6 | 2.724 | 2.463 | 34.927 | 265.6 |
| 2800 | 7 | 2.979 | 2.750 | 34.941 | 263.6 |
| 2551 | 8 | 3.187 | 2.978 | 34.953 | 253.4 |
| 2251 | 9 | 3.464 | 3.280 | 34.965 | 262.0 |
| 1899 | 10 | 3.768 | 3.613 | 34.972 | 261.7 |
| 1584 | 11 | 4.191 | 4.061 | 34.995 | 255.2 |
| 1273 | 12 | 5.348 | 5.235 | 35.082 | 223.0 |
| 851 | 14 | 9.885 | 9.783 | 35.298 | 144.7 |
| 699 | 15 | 13.168 | 13.069 | 35.733 | 156.1 |
| 551 | 16 | 16.135 | 16.045 | 36.206 | 175.5 |
| 400 | 17 | 18.122 | 18.052 | 36.530 | 190.5 |
| 300 | 18 | 18.911 | 18.857 | 36.622 | 203.6 |
| 226 | 19 | 19.383 | 19.341 | 36.658 | 195.7 |
| 161 | 20 | 20.818 | 20.787 | 36.788 | 196.9 |
| 110 | 21 | 21.696 | 21.674 | 36.814 | 216.0 |
| 51 | 22 | 22.555 | 22.544 | 36.855 | 214.7 |
| 2 | 23 | 22.562 | 22.561 | 36.858 | 214.7 |

Abaco 2001 R.V. Oceanus
 CTD Station 23 (CTD023)
 Latitude 26.519 N Longitude 73.588 W
 01-May-2001 15:43 Z

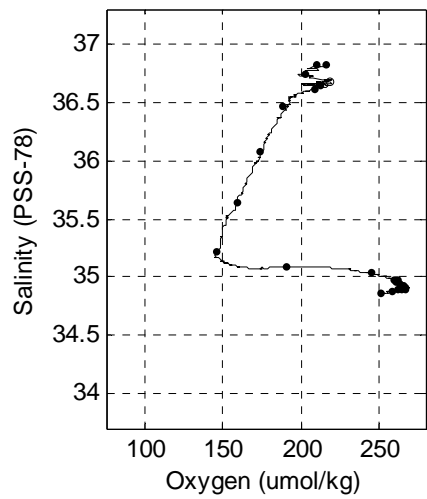
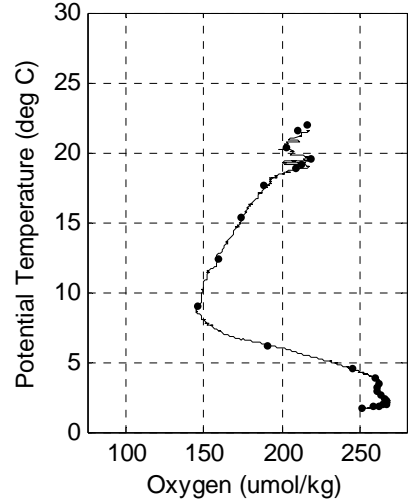
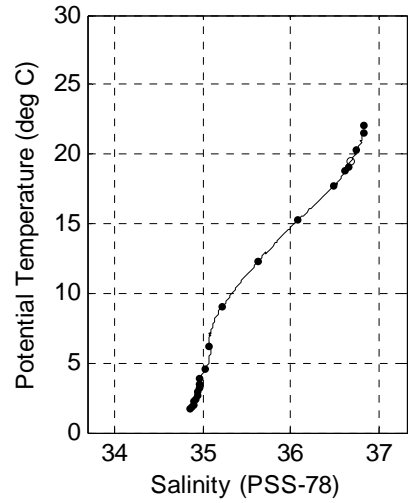
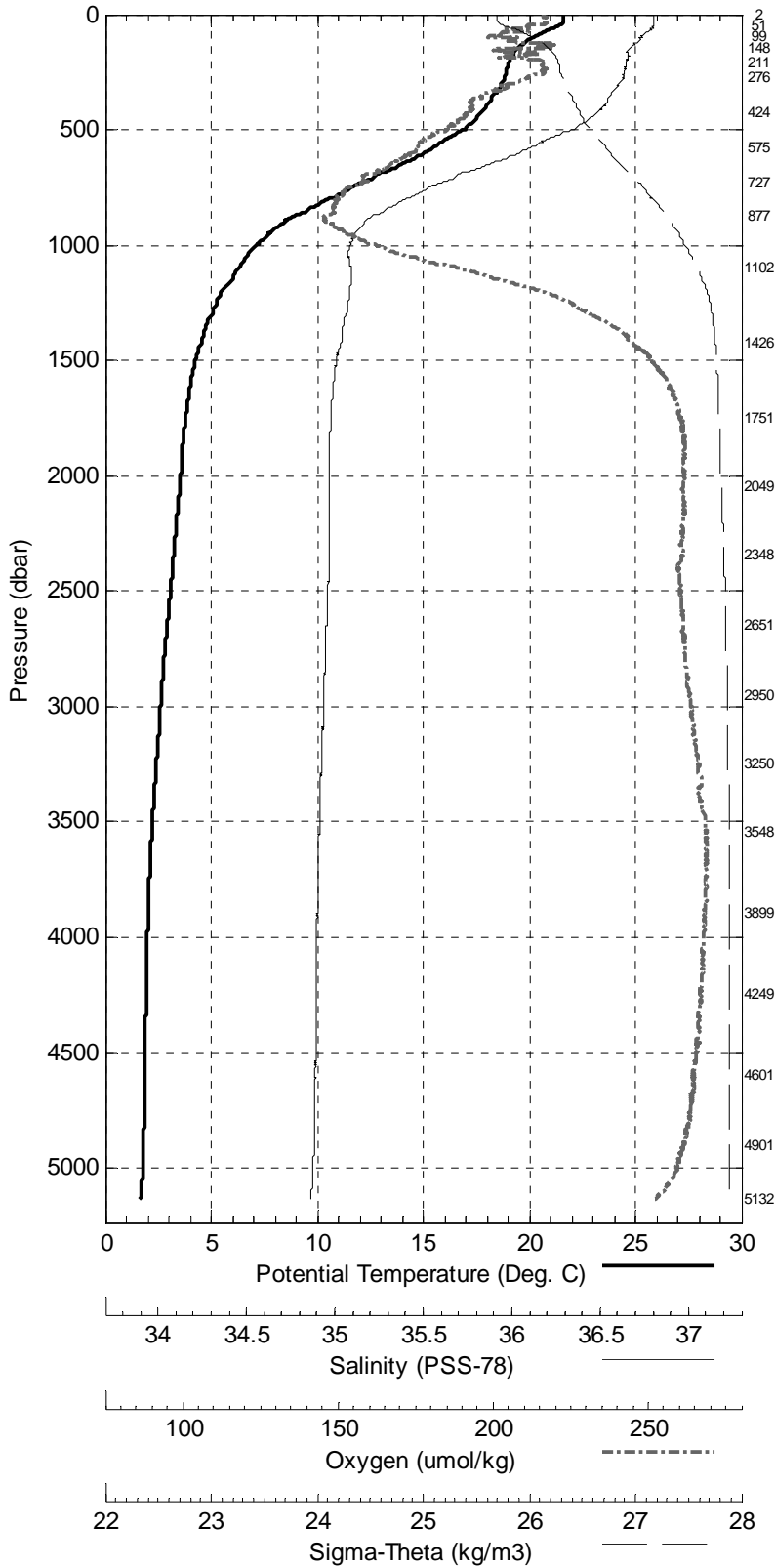


ABACO-01 R.V. Oceanus
 CTD Station 24 (CTD024)
 Latitude 26.517N Longitude 73.234W
 01-May-2001 20:56Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 21.608 | 21.607 | 36.805 | 216.5 | 0.002 | 25.701 |
| 10 | 21.608 | 21.606 | 36.807 | 216.7 | 0.023 | 25.702 |
| 20 | 21.610 | 21.606 | 36.807 | 217.4 | 0.046 | 25.702 |
| 30 | 21.592 | 21.586 | 36.808 | 217.3 | 0.069 | 25.709 |
| 50 | 21.228 | 21.218 | 36.797 | 211.2 | 0.114 | 25.802 |
| 75 | 20.672 | 20.658 | 36.764 | 204.2 | 0.167 | 25.931 |
| 100 | 20.101 | 20.082 | 36.719 | 207.9 | 0.218 | 26.052 |
| 125 | 19.706 | 19.683 | 36.694 | 214.7 | 0.267 | 26.139 |
| 150 | 19.383 | 19.355 | 36.659 | 207.9 | 0.314 | 26.197 |
| 200 | 19.090 | 19.054 | 36.652 | 215.9 | 0.406 | 26.271 |
| 250 | 18.967 | 18.922 | 36.638 | 216.1 | 0.497 | 26.294 |
| 300 | 18.731 | 18.677 | 36.605 | 205.2 | 0.588 | 26.331 |
| 400 | 17.992 | 17.922 | 36.514 | 193.0 | 0.764 | 26.451 |
| 500 | 17.008 | 16.924 | 36.348 | 185.0 | 0.932 | 26.568 |
| 600 | 15.130 | 15.037 | 36.038 | 173.5 | 1.087 | 26.764 |
| 700 | 12.767 | 12.670 | 35.680 | 158.1 | 1.224 | 26.986 |
| 800 | 10.597 | 10.498 | 35.392 | 149.8 | 1.342 | 27.171 |
| 900 | 8.534 | 8.435 | 35.170 | 147.7 | 1.441 | 27.341 |
| 1000 | 7.193 | 7.092 | 35.082 | 162.4 | 1.525 | 27.470 |
| 1100 | 6.379 | 6.275 | 35.087 | 189.1 | 1.597 | 27.585 |
| 1200 | 5.625 | 5.516 | 35.081 | 215.6 | 1.659 | 27.677 |
| 1300 | 5.136 | 5.022 | 35.065 | 231.5 | 1.714 | 27.724 |
| 1400 | 4.710 | 4.591 | 35.039 | 243.3 | 1.765 | 27.753 |
| 1500 | 4.371 | 4.247 | 35.009 | 251.3 | 1.815 | 27.767 |
| 1750 | 3.929 | 3.786 | 34.976 | 260.3 | 1.935 | 27.789 |
| 2000 | 3.706 | 3.543 | 34.970 | 261.7 | 2.053 | 27.809 |
| 2500 | 3.273 | 3.068 | 34.960 | 260.5 | 2.283 | 27.847 |
| 3000 | 2.852 | 2.604 | 34.935 | 263.8 | 2.506 | 27.869 |
| 3500 | 2.516 | 2.223 | 34.913 | 268.3 | 2.725 | 27.883 |
| 4000 | 2.329 | 1.986 | 34.898 | 268.0 | 2.941 | 27.891 |
| 4500 | 2.288 | 1.887 | 34.890 | 265.5 | 3.164 | 27.893 |
| 5000 | 2.229 | 1.769 | 34.877 | 259.4 | 3.397 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5133 | 24 | 2.123 | 1.650 | 34.862 | 251.9 |
| 4902 | 1 | 2.253 | 1.805 | 34.881 | 259.3 |
| 4602 | 2 | 2.282 | 1.869 | 34.888 | 262.7 |
| 4249 | 3 | 2.305 | 1.933 | 34.894 | 265.1 |
| 3899 | 4 | 2.351 | 2.018 | 34.900 | 267.2 |
| 3548 | 5 | 2.483 | 2.185 | 34.910 | 267.6 |
| 3251 | 6 | 2.668 | 2.398 | 34.924 | 265.7 |
| 2950 | 7 | 2.875 | 2.632 | 34.936 | 263.6 |
| 2651 | 8 | 3.102 | 2.885 | 34.951 | 261.6 |
| 2349 | 9 | 3.402 | 3.210 | 34.966 | 261.2 |
| 2050 | 10 | 3.655 | 3.487 | 34.968 | 262.0 |
| 1751 | 11 | 3.949 | 3.806 | 34.977 | 260.0 |
| 1427 | 12 | 4.613 | 4.492 | 35.031 | 245.0 |
| 1103 | 13 | 6.316 | 6.212 | 35.084 | 190.9 |
| 878 | 14 | 9.090 | 8.990 | 35.219 | 146.3 |
| 728 | 15 | 12.399 | 12.299 | 35.634 | 159.3 |
| 576 | 16 | 15.393 | 15.303 | 36.078 | 173.9 |
| 425 | 17 | 17.751 | 17.678 | 36.471 | 189.0 |
| 277 | 18 | 18.839 | 18.789 | 36.616 | 208.7 |
| 211 | 19 | 19.086 | 19.047 | 36.643 | 213.3 |
| 149 | 20 | 19.567 | 19.539 | 36.670 | 219.2 |
| 100 | 21 | 20.323 | 20.305 | 36.735 | 202.9 |
| 51 | 22 | 21.545 | 21.535 | 36.814 | 210.7 |
| 3 | 23 | 22.024 | 22.023 | 36.822 | 216.5 |

Abaco 2001 R.V. Oceanus
 CTD Station 24 (CTD024)
 Latitude 26.517 N Longitude 73.234 W
 01-May-2001 20:56 Z

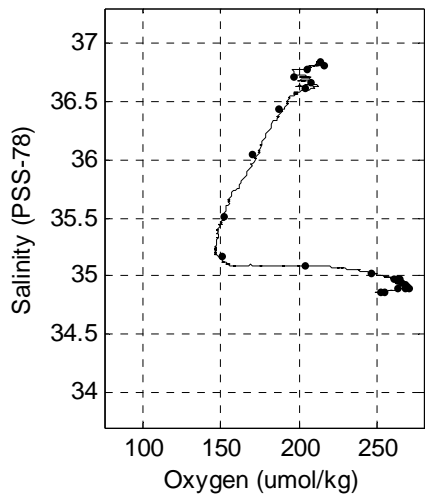
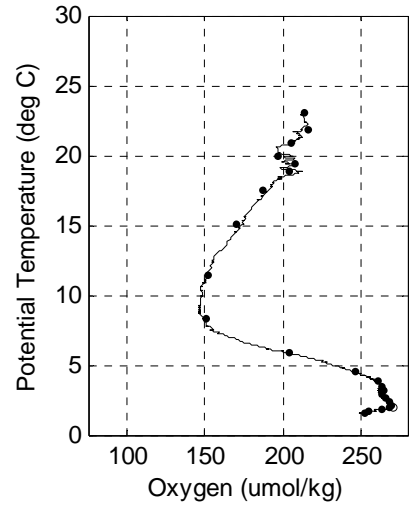
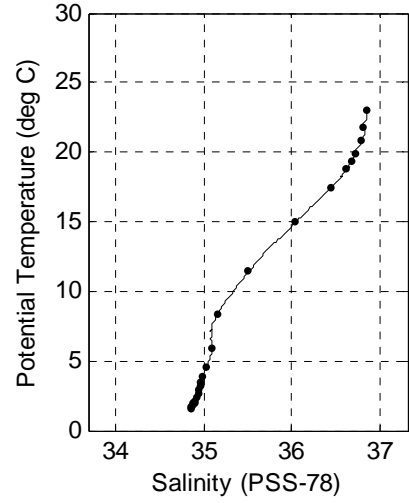
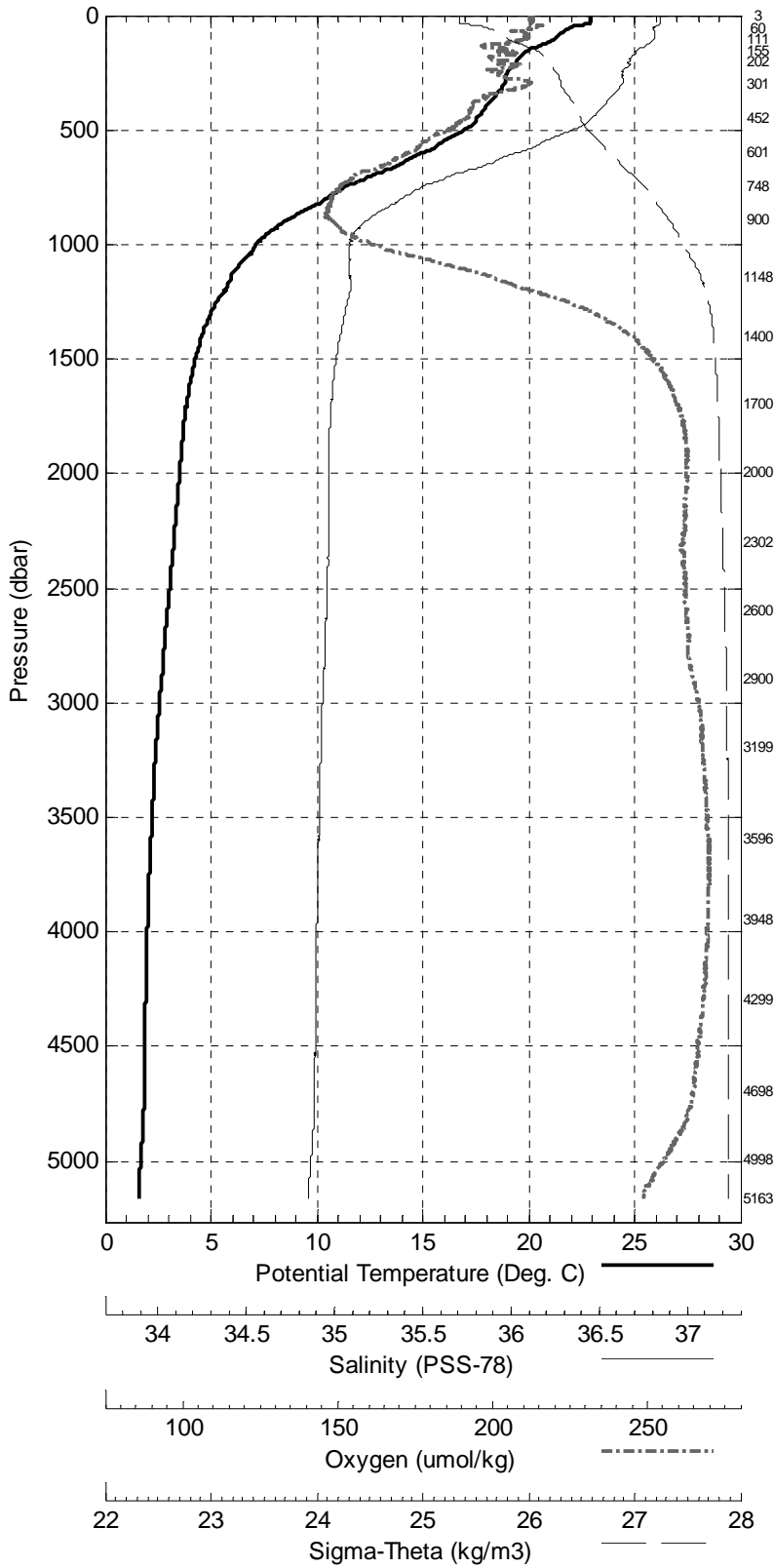


ABACO-01 R.V. Oceanus
 CTD Station 25 (CTD025)
 Latitude 26.580N Longitude 72.858W
 02-May-2001 17:23Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 22.934 | 22.933 | 36.843 | 212.7 | 0.003 | 25.351 |
| 10 | 22.933 | 22.931 | 36.844 | 212.6 | 0.026 | 25.353 |
| 20 | 22.935 | 22.931 | 36.844 | 212.5 | 0.052 | 25.353 |
| 30 | 22.932 | 22.926 | 36.845 | 212.5 | 0.079 | 25.355 |
| 50 | 22.054 | 22.044 | 36.809 | 213.4 | 0.129 | 25.581 |
| 75 | 21.574 | 21.559 | 36.804 | 209.8 | 0.188 | 25.713 |
| 100 | 21.259 | 21.239 | 36.812 | 210.6 | 0.244 | 25.808 |
| 125 | 20.732 | 20.709 | 36.776 | 199.2 | 0.299 | 25.926 |
| 150 | 20.052 | 20.024 | 36.716 | 205.6 | 0.350 | 26.065 |
| 200 | 19.478 | 19.442 | 36.673 | 202.6 | 0.447 | 26.186 |
| 250 | 19.040 | 18.994 | 36.632 | 202.5 | 0.540 | 26.270 |
| 300 | 18.885 | 18.831 | 36.629 | 211.0 | 0.632 | 26.310 |
| 400 | 18.013 | 17.944 | 36.511 | 193.5 | 0.809 | 26.444 |
| 500 | 16.983 | 16.899 | 36.340 | 186.1 | 0.979 | 26.567 |
| 600 | 14.999 | 14.907 | 36.020 | 173.0 | 1.134 | 26.779 |
| 700 | 12.636 | 12.539 | 35.660 | 154.8 | 1.270 | 26.997 |
| 800 | 10.471 | 10.372 | 35.377 | 147.8 | 1.386 | 27.182 |
| 900 | 8.553 | 8.454 | 35.173 | 148.6 | 1.485 | 27.340 |
| 1000 | 7.235 | 7.134 | 35.088 | 162.5 | 1.569 | 27.469 |
| 1100 | 6.338 | 6.234 | 35.082 | 188.8 | 1.642 | 27.587 |
| 1200 | 5.760 | 5.650 | 35.087 | 212.3 | 1.704 | 27.666 |
| 1300 | 5.103 | 4.990 | 35.058 | 232.9 | 1.759 | 27.723 |
| 1400 | 4.667 | 4.549 | 35.031 | 244.9 | 1.810 | 27.751 |
| 1500 | 4.366 | 4.242 | 35.009 | 251.9 | 1.860 | 27.767 |
| 1750 | 3.910 | 3.767 | 34.976 | 261.0 | 1.980 | 27.791 |
| 2000 | 3.681 | 3.518 | 34.971 | 262.5 | 2.097 | 27.812 |
| 2500 | 3.254 | 3.049 | 34.959 | 262.0 | 2.325 | 27.848 |
| 3000 | 2.808 | 2.562 | 34.932 | 266.5 | 2.547 | 27.870 |
| 3500 | 2.500 | 2.207 | 34.913 | 269.1 | 2.763 | 27.885 |
| 4000 | 2.334 | 1.990 | 34.899 | 269.3 | 2.979 | 27.892 |
| 4500 | 2.276 | 1.876 | 34.890 | 266.5 | 3.201 | 27.893 |
| 5000 | 2.136 | 1.679 | 34.866 | 255.2 | 3.433 | 27.889 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5164 | 24 | 2.047 | 1.573 | 34.852 | 252.3 |
| 4998 | 1 | 2.133 | 1.677 | 34.864 | 255.6 |
| 4699 | 2 | 2.265 | 1.841 | 34.885 | 263.3 |
| 4300 | 3 | 2.295 | 1.918 | 34.892 | 270.4 |
| 3949 | 4 | 2.338 | 2.000 | 34.898 | 268.6 |
| 3597 | 5 | 2.457 | 2.155 | 34.909 | 269.7 |
| 3199 | 6 | 2.662 | 2.398 | 34.923 | 268.3 |
| 2900 | 7 | 2.905 | 2.667 | 34.939 | 265.7 |
| 2601 | 8 | 3.170 | 2.957 | 34.954 | 263.2 |
| 2303 | 9 | 3.416 | 3.228 | 34.965 | 264.7 |
| 2001 | 10 | 3.658 | 3.496 | 34.967 | 263.9 |
| 1700 | 11 | 3.980 | 3.842 | 34.980 | 261.4 |
| 1400 | 12 | 4.633 | 4.515 | 35.029 | 247.1 |
| 1148 | 13 | 6.003 | 5.897 | 35.088 | 203.8 |
| 900 | 14 | 8.435 | 8.337 | 35.162 | 150.4 |
| 749 | 15 | 11.504 | 11.406 | 35.504 | 151.5 |
| 602 | 16 | 15.128 | 15.034 | 36.037 | 169.9 |
| 453 | 17 | 17.517 | 17.439 | 36.428 | 186.8 |
| 301 | 18 | 18.808 | 18.754 | 36.607 | 204.0 |
| 202 | 19 | 19.356 | 19.319 | 36.665 | 208.2 |
| 155 | 20 | 19.948 | 19.919 | 36.708 | 196.8 |
| 112 | 21 | 20.878 | 20.856 | 36.780 | 205.0 |
| 60 | 22 | 21.823 | 21.811 | 36.804 | 215.9 |
| 3 | 23 | 23.043 | 23.042 | 36.835 | 213.6 |

Abaco 2001 R.V. Oceanus
 CTD Station 25 (CTD025)
 Latitude 26.580 N Longitude 72.858 W
 02-May-2001 17:23 Z

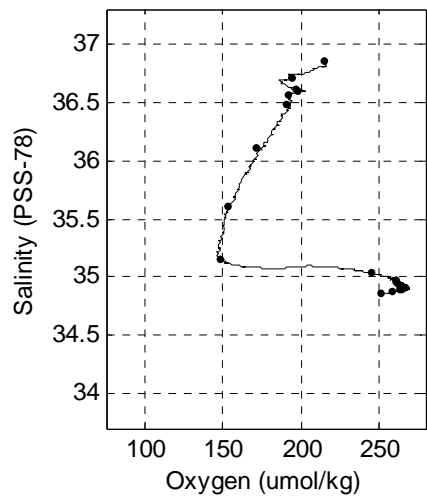
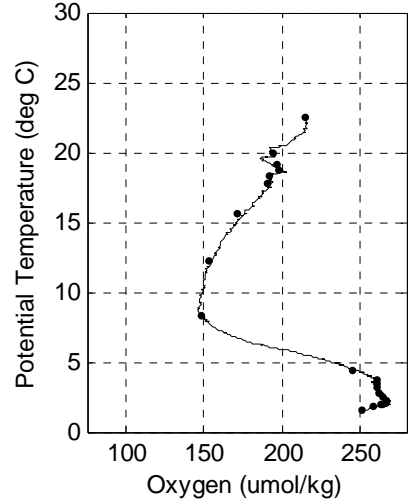
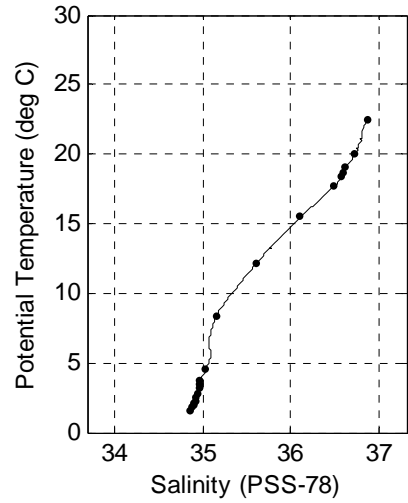
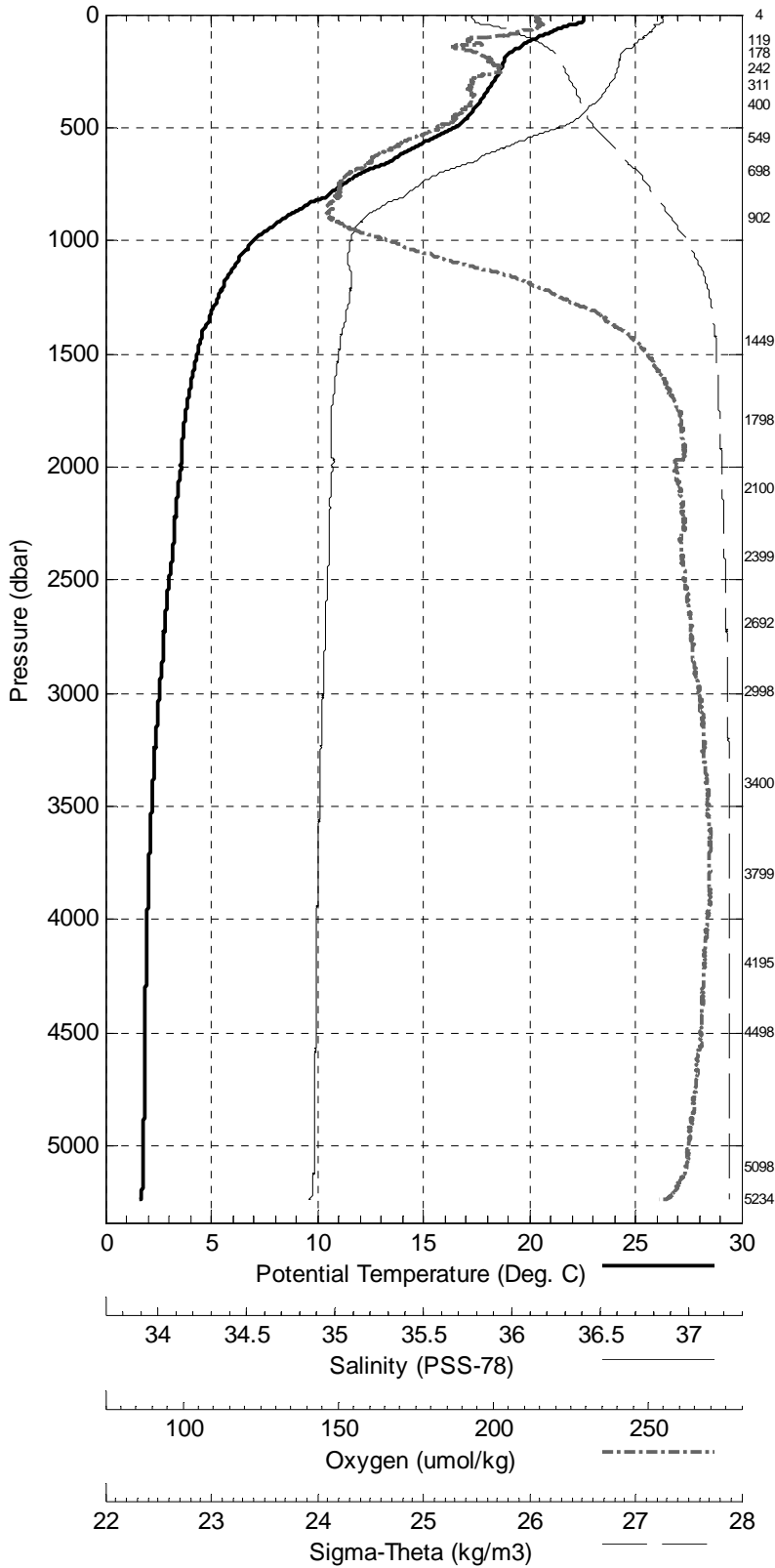


ABACO-01 R.V. Oceanus
 CTD Station 26 (CTD026)
 Latitude 26.515N Longitude 72.462W
 02-May-2001 00:02Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 22.574 | 22.573 | 36.849 | 214.5 | 0.003 | 25.460 |
| 10 | 22.579 | 22.577 | 36.851 | 213.6 | 0.025 | 25.461 |
| 20 | 22.574 | 22.570 | 36.851 | 214.9 | 0.050 | 25.463 |
| 30 | 22.547 | 22.541 | 36.852 | 214.1 | 0.075 | 25.472 |
| 50 | 21.736 | 21.726 | 36.810 | 214.7 | 0.124 | 25.671 |
| 75 | 21.108 | 21.093 | 36.788 | 208.0 | 0.180 | 25.830 |
| 100 | 20.421 | 20.402 | 36.746 | 198.5 | 0.233 | 25.986 |
| 125 | 19.903 | 19.879 | 36.706 | 194.2 | 0.283 | 26.096 |
| 150 | 19.446 | 19.418 | 36.662 | 187.7 | 0.331 | 26.184 |
| 200 | 18.889 | 18.853 | 36.614 | 199.1 | 0.422 | 26.293 |
| 250 | 18.642 | 18.597 | 36.594 | 201.8 | 0.511 | 26.343 |
| 300 | 18.326 | 18.273 | 36.560 | 192.9 | 0.599 | 26.399 |
| 400 | 17.586 | 17.517 | 36.448 | 192.7 | 0.769 | 26.501 |
| 500 | 16.534 | 16.452 | 36.272 | 181.2 | 0.933 | 26.621 |
| 600 | 14.350 | 14.260 | 35.906 | 167.0 | 1.082 | 26.832 |
| 700 | 12.119 | 12.025 | 35.590 | 154.5 | 1.213 | 27.043 |
| 800 | 10.518 | 10.419 | 35.387 | 149.8 | 1.327 | 27.182 |
| 900 | 8.516 | 8.417 | 35.164 | 147.5 | 1.426 | 27.339 |
| 1000 | 7.054 | 6.955 | 35.086 | 166.8 | 1.509 | 27.493 |
| 1100 | 6.292 | 6.188 | 35.077 | 189.4 | 1.579 | 27.589 |
| 1200 | 5.666 | 5.558 | 35.089 | 214.0 | 1.640 | 27.679 |
| 1300 | 5.146 | 5.033 | 35.066 | 231.2 | 1.695 | 27.724 |
| 1400 | 4.739 | 4.620 | 35.040 | 242.6 | 1.747 | 27.751 |
| 1500 | 4.453 | 4.328 | 35.021 | 249.5 | 1.797 | 27.768 |
| 1750 | 3.945 | 3.802 | 34.980 | 259.9 | 1.917 | 27.791 |
| 2000 | 3.748 | 3.584 | 34.989 | 258.9 | 2.034 | 27.820 |
| 2500 | 3.210 | 3.006 | 34.957 | 261.7 | 2.262 | 27.851 |
| 3000 | 2.794 | 2.548 | 34.931 | 266.3 | 2.482 | 27.871 |
| 3500 | 2.481 | 2.190 | 34.912 | 269.4 | 2.697 | 27.886 |
| 4000 | 2.321 | 1.977 | 34.898 | 269.0 | 2.912 | 27.892 |
| 4500 | 2.287 | 1.887 | 34.891 | 267.2 | 3.134 | 27.893 |
| 5000 | 2.273 | 1.811 | 34.883 | 263.2 | 3.367 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5235 | 24 | 2.106 | 1.620 | 34.858 | 251.6 |
| 5099 | 1 | 2.268 | 1.794 | 34.879 | 258.7 |
| 4499 | 3 | 2.289 | 1.888 | 34.890 | 263.5 |
| 4195 | 4 | 2.291 | 1.926 | 34.893 | 265.0 |
| 3799 | 5 | 2.374 | 2.052 | 34.902 | 267.5 |
| 3401 | 6 | 2.535 | 2.253 | 34.915 | 267.4 |
| 2998 | 7 | 2.802 | 2.556 | 34.931 | 265.4 |
| 2693 | 8 | 3.041 | 2.821 | 34.946 | 262.6 |
| 2400 | 9 | 3.321 | 3.125 | 34.963 | 261.1 |
| 2101 | 10 | 3.574 | 3.403 | 34.972 | 261.0 |
| 1799 | 11 | 3.895 | 3.749 | 34.977 | 260.6 |
| 1449 | 12 | 4.602 | 4.480 | 35.034 | 245.5 |
| 902 | 14 | 8.391 | 8.293 | 35.151 | 148.9 |
| 699 | 15 | 12.290 | 12.195 | 35.612 | 153.6 |
| 549 | 16 | 15.588 | 15.501 | 36.101 | 171.8 |
| 401 | 17 | 17.797 | 17.728 | 36.481 | 190.7 |
| 311 | 18 | 18.408 | 18.353 | 36.565 | 191.8 |
| 242 | 19 | 18.746 | 18.703 | 36.592 | 198.3 |
| 179 | 20 | 19.100 | 19.068 | 36.616 | 196.5 |
| 120 | 21 | 20.034 | 20.012 | 36.708 | 194.9 |
| 4 | 23 | 22.407 | 22.407 | 36.859 | 215.6 |

Abaco 2001 R.V. Oceanus
 CTD Station 26 (CTD026)
 Latitude 26.515 N Longitude 72.462 W
 02-May-2001 00:02 Z

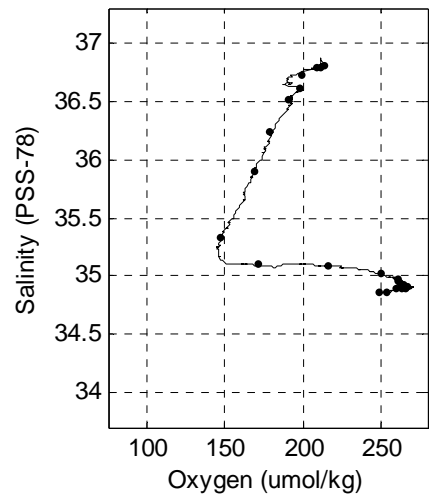
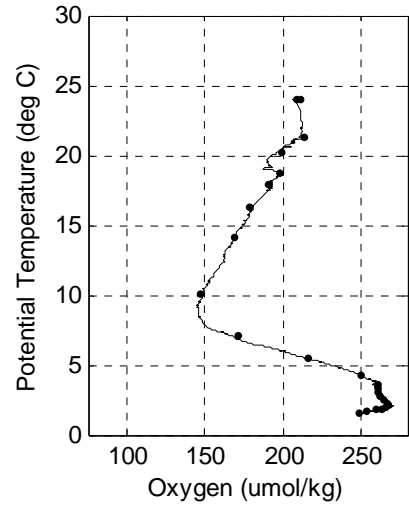
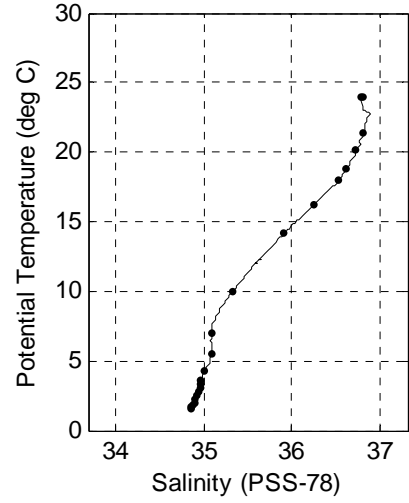
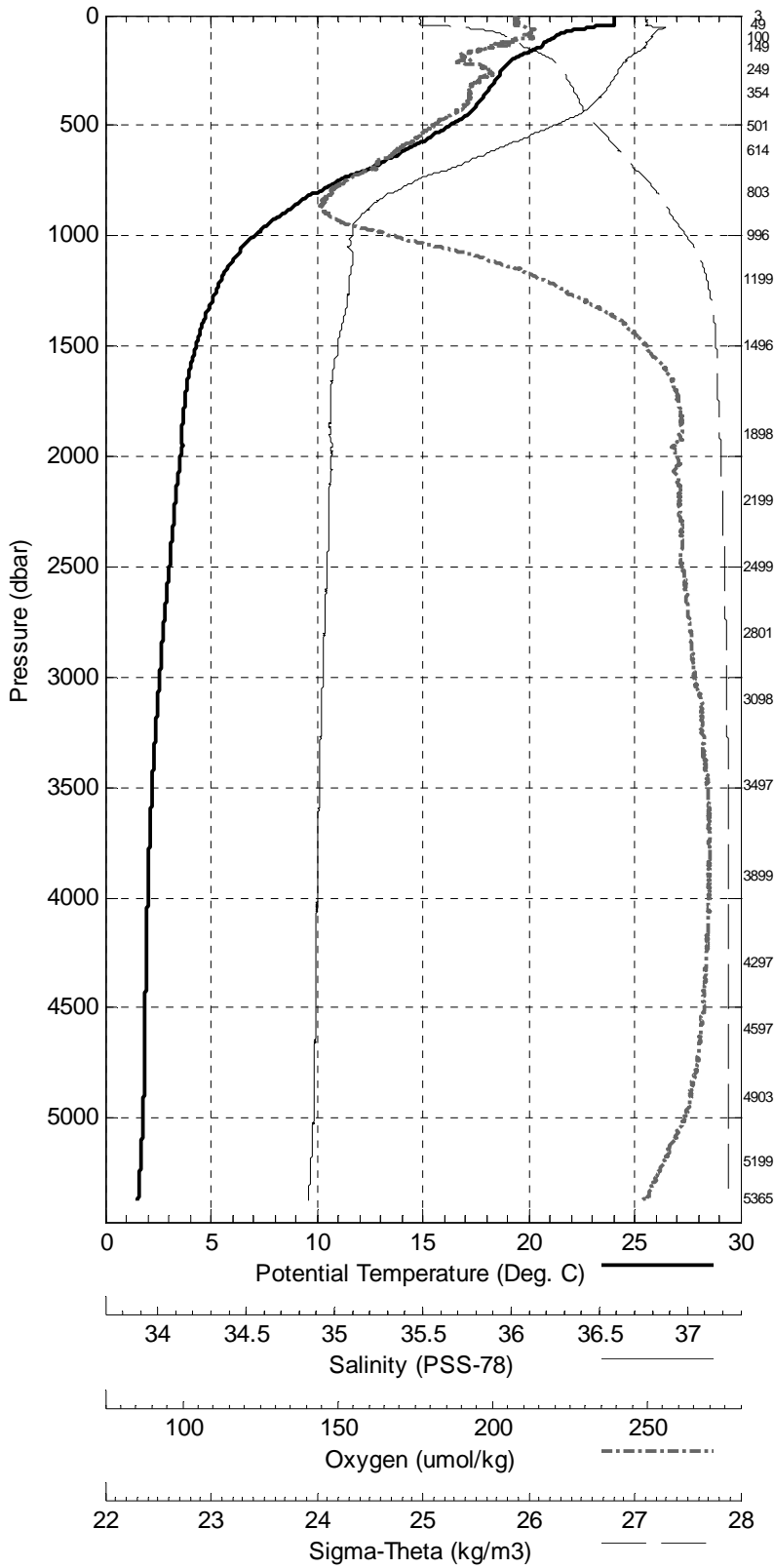


ABACO-01 R.V. Oceanus
 CTD Station 27 (CTD027)
 Latitude 26.531N Longitude 72.098W
 03-May-2001 06:13Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.018 | 24.018 | 36.758 | 206.7 | 0.003 | 24.968 |
| 10 | 24.021 | 24.019 | 36.767 | 207.6 | 0.030 | 24.974 |
| 20 | 24.020 | 24.016 | 36.768 | 207.7 | 0.060 | 24.976 |
| 30 | 24.024 | 24.018 | 36.767 | 207.8 | 0.089 | 24.975 |
| 50 | 23.182 | 23.171 | 36.803 | 210.9 | 0.148 | 25.252 |
| 75 | 21.775 | 21.760 | 36.818 | 212.4 | 0.211 | 25.667 |
| 100 | 21.205 | 21.185 | 36.793 | 212.4 | 0.267 | 25.809 |
| 125 | 20.726 | 20.702 | 36.771 | 201.8 | 0.321 | 25.924 |
| 150 | 20.361 | 20.332 | 36.745 | 198.8 | 0.374 | 26.004 |
| 200 | 19.244 | 19.208 | 36.645 | 192.7 | 0.471 | 26.225 |
| 250 | 18.768 | 18.723 | 36.610 | 199.2 | 0.562 | 26.323 |
| 300 | 18.433 | 18.380 | 36.571 | 195.6 | 0.651 | 26.380 |
| 400 | 17.655 | 17.586 | 36.460 | 191.8 | 0.822 | 26.493 |
| 500 | 16.311 | 16.229 | 36.236 | 180.5 | 0.985 | 26.645 |
| 600 | 14.435 | 14.345 | 35.933 | 170.0 | 1.133 | 26.835 |
| 700 | 12.433 | 12.338 | 35.637 | 160.3 | 1.265 | 27.019 |
| 800 | 10.186 | 10.089 | 35.343 | 148.3 | 1.377 | 27.205 |
| 900 | 8.413 | 8.315 | 35.152 | 146.8 | 1.473 | 27.345 |
| 1000 | 7.128 | 7.027 | 35.096 | 168.6 | 1.556 | 27.491 |
| 1100 | 6.235 | 6.131 | 35.103 | 196.9 | 1.625 | 27.617 |
| 1200 | 5.555 | 5.447 | 35.084 | 216.7 | 1.684 | 27.688 |
| 1300 | 5.158 | 5.044 | 35.073 | 230.3 | 1.738 | 27.728 |
| 1400 | 4.714 | 4.595 | 35.045 | 242.8 | 1.789 | 27.757 |
| 1500 | 4.413 | 4.288 | 35.021 | 249.5 | 1.839 | 27.772 |
| 1750 | 3.910 | 3.768 | 34.977 | 260.0 | 1.957 | 27.792 |
| 2000 | 3.693 | 3.530 | 34.978 | 259.3 | 2.074 | 27.817 |
| 2500 | 3.240 | 3.035 | 34.959 | 261.0 | 2.302 | 27.849 |
| 3000 | 2.825 | 2.578 | 34.934 | 265.3 | 2.522 | 27.871 |
| 3500 | 2.519 | 2.226 | 34.914 | 269.5 | 2.739 | 27.884 |
| 4000 | 2.354 | 2.010 | 34.901 | 269.5 | 2.956 | 27.891 |
| 4500 | 2.302 | 1.900 | 34.892 | 267.8 | 3.179 | 27.893 |
| 5000 | 2.253 | 1.792 | 34.880 | 262.2 | 3.413 | 27.892 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5365 | 24 | 2.064 | 1.563 | 34.851 | 248.7 |
| 5199 | 1 | 2.170 | 1.687 | 34.866 | 253.6 |
| 4904 | 2 | 2.276 | 1.826 | 34.884 | 260.5 |
| 4597 | 3 | 2.291 | 1.878 | 34.889 | 263.7 |
| 4298 | 4 | 2.315 | 1.938 | 34.894 | 265.6 |
| 3899 | 5 | 2.367 | 2.034 | 34.902 | 267.7 |
| 3498 | 6 | 2.495 | 2.203 | 34.912 | 267.9 |
| 3098 | 7 | 2.761 | 2.505 | 34.929 | 264.6 |
| 2801 | 8 | 2.968 | 2.739 | 34.942 | 262.7 |
| 2499 | 9 | 3.239 | 3.035 | 34.960 | 261.0 |
| 2200 | 10 | 3.476 | 3.297 | 34.968 | 261.6 |
| 1898 | 11 | 3.773 | 3.619 | 34.978 | 260.6 |
| 1496 | 12 | 4.383 | 4.259 | 35.015 | 250.7 |
| 1200 | 13 | 5.640 | 5.531 | 35.087 | 216.2 |
| 997 | 14 | 7.141 | 7.041 | 35.100 | 171.3 |
| 804 | 15 | 10.112 | 10.015 | 35.331 | 146.9 |
| 614 | 16 | 14.217 | 14.125 | 35.898 | 169.2 |
| 502 | 17 | 16.341 | 16.259 | 36.239 | 178.2 |
| 354 | 18 | 18.002 | 17.940 | 36.514 | 191.3 |
| 250 | 19 | 18.803 | 18.758 | 36.605 | 197.9 |
| 149 | 20 | 20.251 | 20.222 | 36.724 | 199.4 |
| 101 | 21 | 21.389 | 21.369 | 36.799 | 213.6 |
| 49 | 22 | 23.909 | 23.898 | 36.791 | 211.6 |
| 3 | 23 | 23.960 | 23.959 | 36.787 | 209.4 |

Abaco 2001 R.V. Oceanus
 CTD Station 27 (CTD027)
 Latitude 26.531 N Longitude 72.098 W
 03-May-2001 06:13 Z

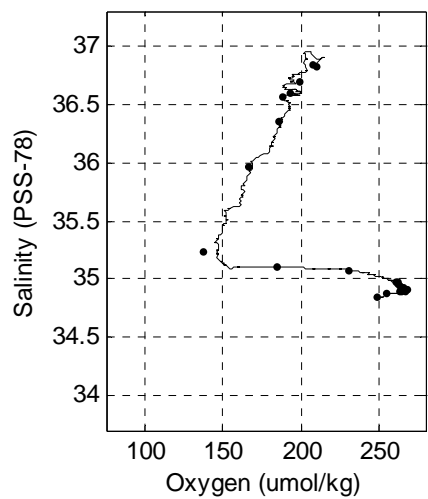
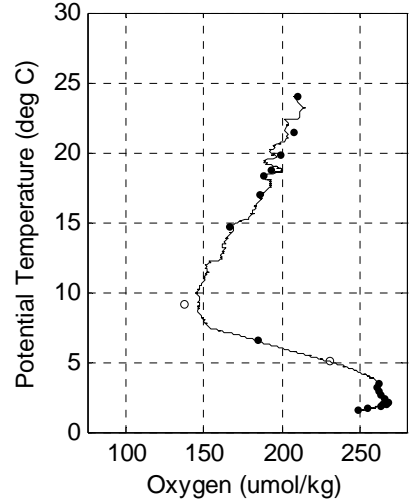
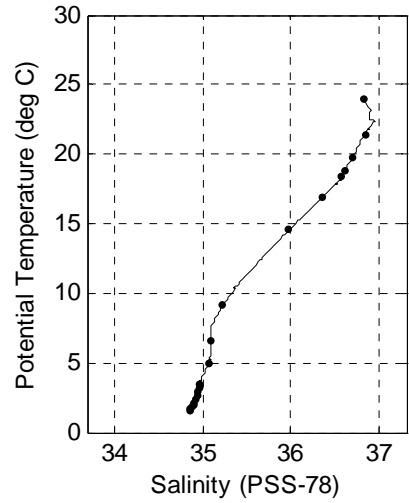
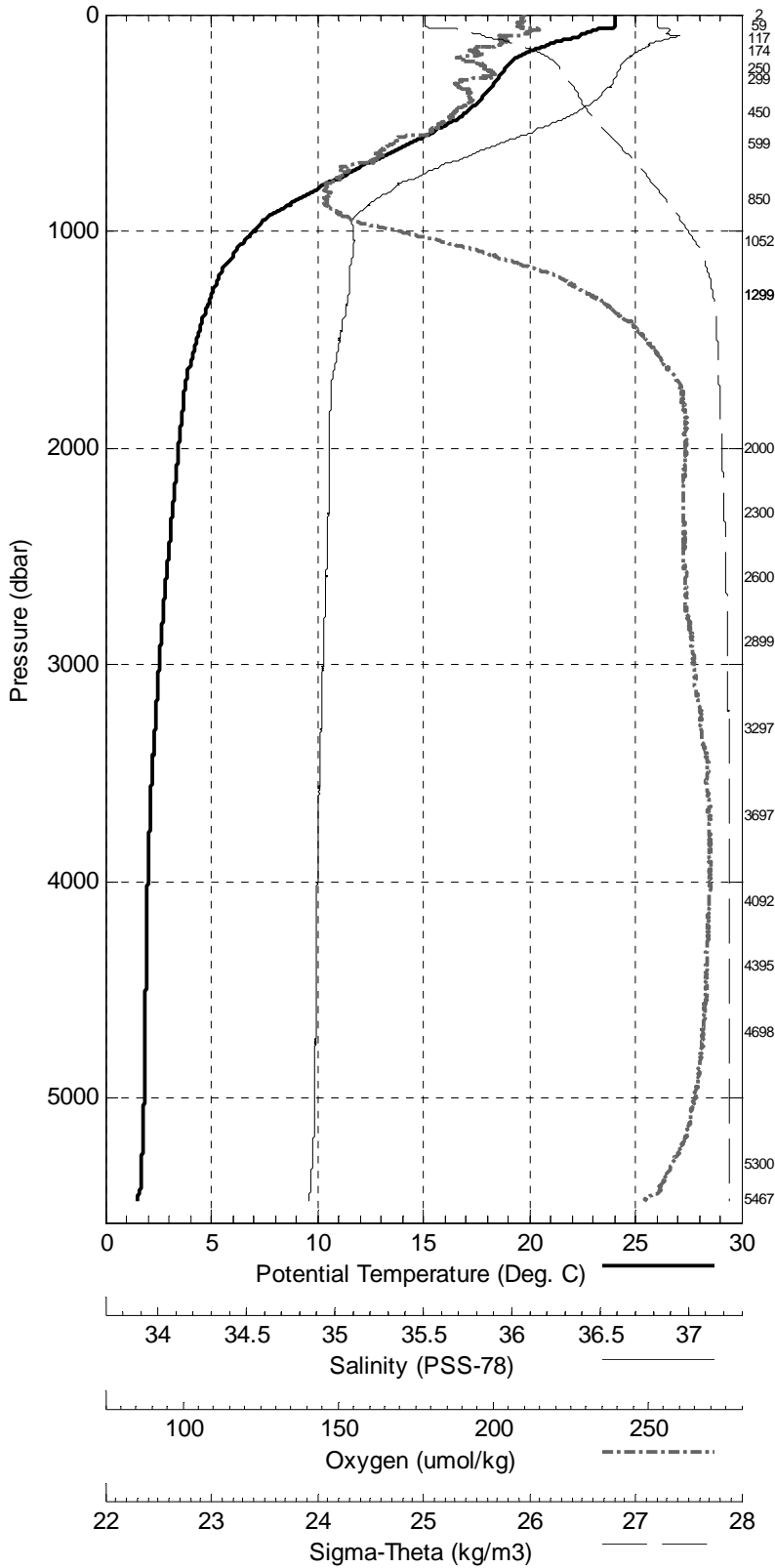


ABACO-01 R.V. Oceanus
 CTD Station 28 (CTD028)
 Latitude 26.529N Longitude 71.729W
 03-May-2001 12:59Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.021 | 24.021 | 36.820 | 209.9 | 0.003 | 25.014 |
| 10 | 24.022 | 24.020 | 36.822 | 209.8 | 0.029 | 25.015 |
| 20 | 24.022 | 24.018 | 36.822 | 209.5 | 0.059 | 25.016 |
| 30 | 24.024 | 24.018 | 36.822 | 208.7 | 0.088 | 25.016 |
| 50 | 24.028 | 24.017 | 36.823 | 209.7 | 0.147 | 25.017 |
| 75 | 22.993 | 22.978 | 36.890 | 212.3 | 0.217 | 25.375 |
| 100 | 22.392 | 22.371 | 36.949 | 202.0 | 0.280 | 25.594 |
| 125 | 21.289 | 21.265 | 36.810 | 204.0 | 0.339 | 25.799 |
| 150 | 20.586 | 20.558 | 36.756 | 197.1 | 0.393 | 25.952 |
| 200 | 19.417 | 19.380 | 36.658 | 188.9 | 0.492 | 26.191 |
| 250 | 18.916 | 18.871 | 36.611 | 197.5 | 0.585 | 26.286 |
| 300 | 18.537 | 18.484 | 36.583 | 189.6 | 0.675 | 26.363 |
| 400 | 17.657 | 17.588 | 36.460 | 192.8 | 0.847 | 26.493 |
| 500 | 16.262 | 16.181 | 36.229 | 184.1 | 1.009 | 26.651 |
| 600 | 14.305 | 14.216 | 35.914 | 166.6 | 1.157 | 26.848 |
| 700 | 12.105 | 12.011 | 35.589 | 151.4 | 1.286 | 27.045 |
| 800 | 10.137 | 10.041 | 35.332 | 146.0 | 1.398 | 27.205 |
| 900 | 8.345 | 8.247 | 35.156 | 148.7 | 1.495 | 27.358 |
| 1000 | 7.098 | 6.998 | 35.105 | 169.6 | 1.576 | 27.502 |
| 1100 | 6.204 | 6.101 | 35.103 | 197.4 | 1.644 | 27.622 |
| 1200 | 5.487 | 5.380 | 35.083 | 219.6 | 1.703 | 27.696 |
| 1300 | 5.107 | 4.993 | 35.075 | 231.8 | 1.756 | 27.735 |
| 1400 | 4.731 | 4.612 | 35.049 | 241.8 | 1.807 | 27.759 |
| 1500 | 4.434 | 4.308 | 35.026 | 249.7 | 1.856 | 27.774 |
| 1750 | 3.856 | 3.715 | 34.975 | 261.1 | 1.974 | 27.796 |
| 2000 | 3.612 | 3.450 | 34.970 | 262.0 | 2.090 | 27.818 |
| 2500 | 3.176 | 2.973 | 34.956 | 261.1 | 2.314 | 27.853 |
| 3000 | 2.777 | 2.531 | 34.932 | 264.5 | 2.532 | 27.873 |
| 3500 | 2.512 | 2.220 | 34.913 | 269.3 | 2.748 | 27.884 |
| 4000 | 2.348 | 2.004 | 34.900 | 269.7 | 2.964 | 27.891 |
| 4500 | 2.313 | 1.912 | 34.893 | 268.7 | 3.188 | 27.893 |
| 5000 | 2.295 | 1.832 | 34.885 | 264.8 | 3.423 | 27.893 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5467 | 24 | 2.073 | 1.558 | 34.851 | 248.8 |
| 5300 | 1 | 2.210 | 1.712 | 34.871 | 254.7 |
| 4698 | 3 | 2.309 | 1.884 | 34.891 | 263.3 |
| 4396 | 4 | 2.312 | 1.923 | 34.894 | 265.2 |
| 4093 | 5 | 2.336 | 1.982 | 34.899 | 267.1 |
| 3697 | 6 | 2.427 | 2.115 | 34.906 | 268.4 |
| 3297 | 7 | 2.618 | 2.344 | 34.921 | 265.8 |
| 2900 | 8 | 2.872 | 2.634 | 34.939 | 263.1 |
| 2600 | 9 | 3.093 | 2.882 | 34.952 | 261.8 |
| 2301 | 10 | 3.372 | 3.185 | 34.965 | 261.8 |
| 2000 | 11 | 3.604 | 3.442 | 34.971 | 262.4 |
| 1300 | 13 | 5.122 | 5.009 | 35.077 | 230.8 |
| 1300 | 13 | 5.122 | 5.009 | 35.077 | 231.3 |
| 1052 | 14 | 6.649 | 6.547 | 35.105 | 184.3 |
| 850 | 15 | 9.220 | 9.122 | 35.232 | 138.0 |
| 600 | 16 | 14.642 | 14.551 | 35.961 | 167.1 |
| 451 | 17 | 17.038 | 16.963 | 36.354 | 185.5 |
| 300 | 18 | 18.403 | 18.350 | 36.569 | 188.3 |
| 251 | 19 | 18.803 | 18.758 | 36.602 | 192.9 |
| 174 | 20 | 19.796 | 19.763 | 36.693 | 199.7 |
| 118 | 21 | 21.441 | 21.418 | 36.833 | 207.9 |
| 59 | 22 | 23.989 | 23.977 | 36.826 | 210.8 |
| 3 | 23 | 23.979 | 23.979 | 36.820 | 210.5 |

Abaco 2001 R.V. Oceanus
CTD Station 28 (CTD028)
Latitude 26.529 N Longitude 71.729 W
03-May-2001 12:59 Z

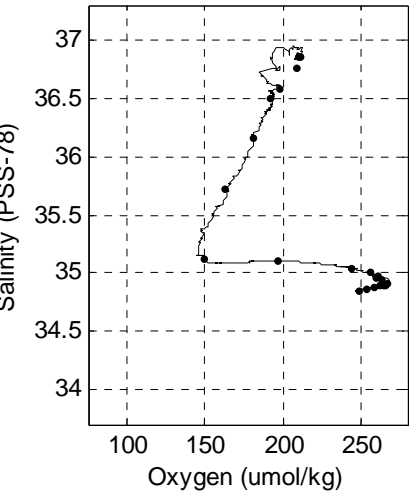
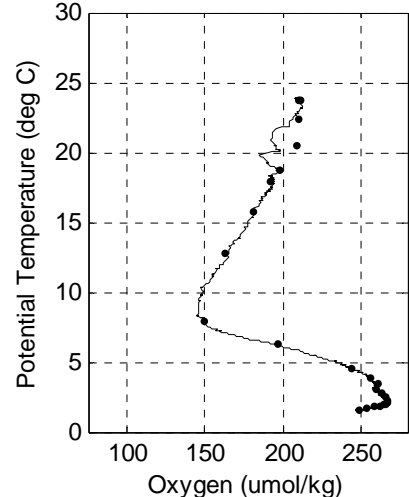
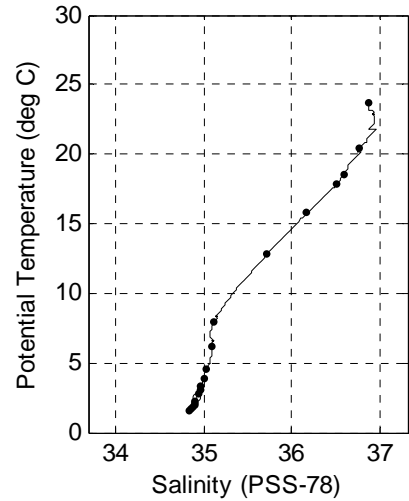
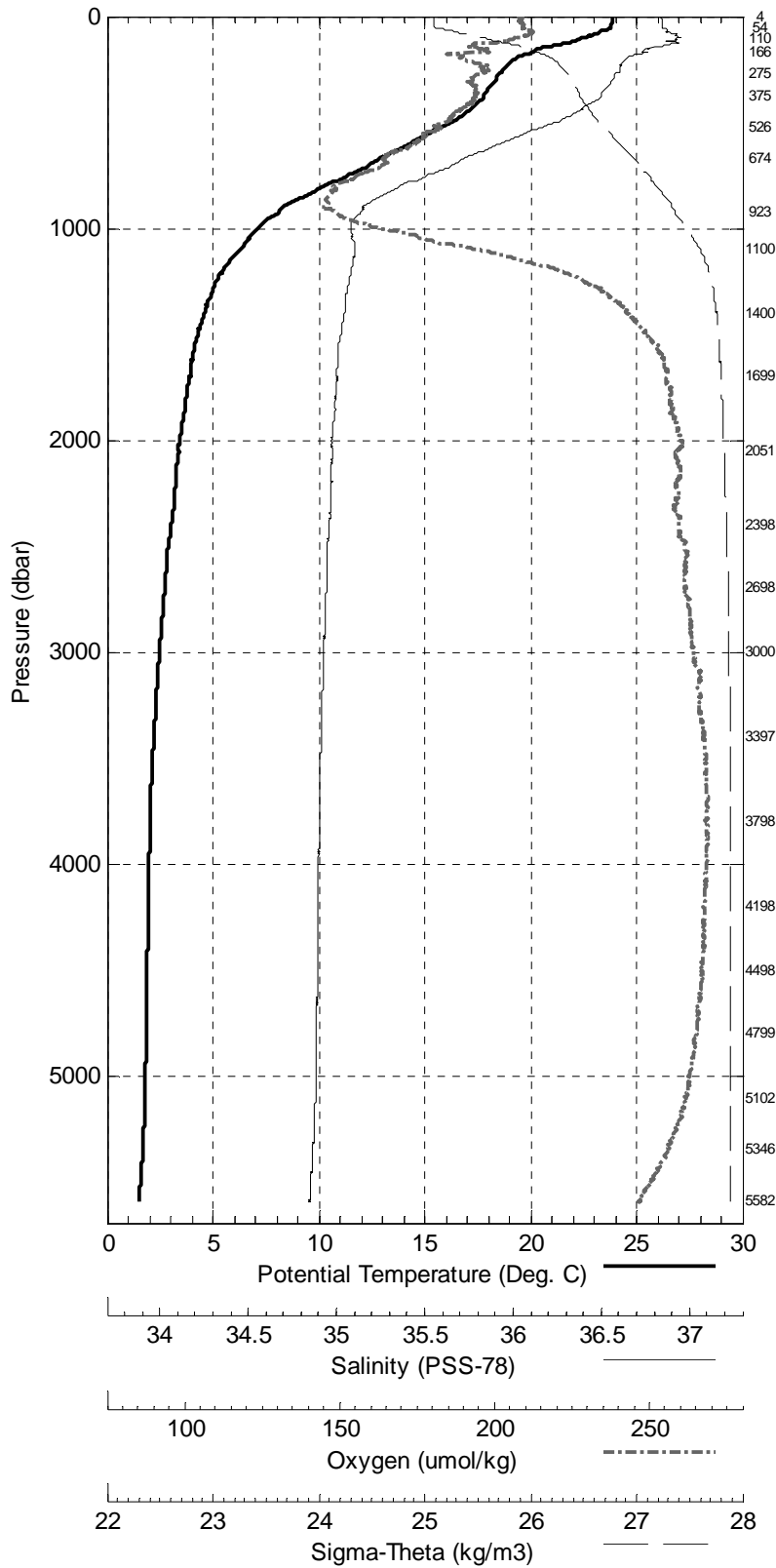


ABACO-01 R.V. Oceanus
 CTD Station 29 (CTD029)
 Latitude 26.534N Longitude 71.337W
 03-May-2001 19:57Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.843 | 23.842 | 36.841 | 209.0 | 0.003 | 25.083 |
| 10 | 23.841 | 23.839 | 36.842 | 208.2 | 0.029 | 25.085 |
| 20 | 23.836 | 23.831 | 36.842 | 208.3 | 0.057 | 25.087 |
| 30 | 23.831 | 23.825 | 36.841 | 208.8 | 0.086 | 25.088 |
| 50 | 23.809 | 23.799 | 36.844 | 209.1 | 0.144 | 25.098 |
| 75 | 23.214 | 23.198 | 36.873 | 211.7 | 0.213 | 25.297 |
| 100 | 22.498 | 22.478 | 36.938 | 206.1 | 0.278 | 25.555 |
| 125 | 21.776 | 21.751 | 36.937 | 195.6 | 0.337 | 25.761 |
| 150 | 20.484 | 20.455 | 36.766 | 196.3 | 0.392 | 25.987 |
| 200 | 19.265 | 19.228 | 36.638 | 190.3 | 0.490 | 26.214 |
| 250 | 18.780 | 18.736 | 36.610 | 198.1 | 0.581 | 26.320 |
| 300 | 18.420 | 18.367 | 36.566 | 192.3 | 0.669 | 26.380 |
| 400 | 17.622 | 17.554 | 36.457 | 193.4 | 0.840 | 26.499 |
| 500 | 16.323 | 16.241 | 36.240 | 184.6 | 1.002 | 26.646 |
| 600 | 14.357 | 14.267 | 35.926 | 174.0 | 1.149 | 26.846 |
| 700 | 12.433 | 12.337 | 35.652 | 163.8 | 1.279 | 27.030 |
| 800 | 10.299 | 10.201 | 35.358 | 148.0 | 1.392 | 27.197 |
| 900 | 8.421 | 8.323 | 35.151 | 144.3 | 1.490 | 27.343 |
| 1000 | 7.156 | 7.056 | 35.082 | 163.1 | 1.574 | 27.475 |
| 1100 | 6.372 | 6.267 | 35.104 | 195.1 | 1.645 | 27.600 |
| 1200 | 5.562 | 5.454 | 35.085 | 221.5 | 1.705 | 27.688 |
| 1300 | 5.079 | 4.966 | 35.062 | 234.7 | 1.759 | 27.728 |
| 1400 | 4.689 | 4.571 | 35.043 | 243.3 | 1.810 | 27.759 |
| 1500 | 4.411 | 4.286 | 35.025 | 249.1 | 1.859 | 27.776 |
| 1750 | 3.943 | 3.800 | 34.995 | 256.6 | 1.976 | 27.803 |
| 2000 | 3.573 | 3.411 | 34.971 | 260.3 | 2.091 | 27.823 |
| 2500 | 3.088 | 2.887 | 34.951 | 260.9 | 2.311 | 27.857 |
| 3000 | 2.709 | 2.464 | 34.928 | 263.7 | 2.526 | 27.876 |
| 3500 | 2.441 | 2.150 | 34.910 | 268.3 | 2.737 | 27.887 |
| 4000 | 2.326 | 1.982 | 34.899 | 268.4 | 2.951 | 27.892 |
| 4500 | 2.297 | 1.896 | 34.892 | 267.0 | 3.173 | 27.893 |
| 5000 | 2.274 | 1.812 | 34.883 | 262.5 | 3.407 | 27.893 |
| 5500 | 2.104 | 1.584 | 34.854 | 250.4 | 3.650 | 27.887 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5583 | 24 | 2.070 | 1.541 | 34.848 | 249.5 |
| 5347 | 1 | 2.184 | 1.682 | 34.865 | 254.2 |
| 5102 | 2 | 2.263 | 1.789 | 34.879 | 259.1 |
| 4799 | 3 | 2.289 | 1.852 | 34.887 | 262.7 |
| 4498 | 4 | 2.301 | 1.900 | 34.891 | 264.5 |
| 4199 | 5 | 2.309 | 1.943 | 34.894 | 266.0 |
| 3799 | 6 | 2.360 | 2.038 | 34.901 | 267.5 |
| 3398 | 7 | 2.486 | 2.205 | 34.912 | 267.4 |
| 3001 | 8 | 2.707 | 2.463 | 34.924 | 265.5 |
| 2698 | 9 | 2.937 | 2.718 | 34.942 | 263.5 |
| 2398 | 10 | 3.231 | 3.037 | 34.961 | 260.2 |
| 2052 | 11 | 3.532 | 3.366 | 34.971 | 261.3 |
| 1700 | 12 | 4.008 | 3.869 | 35.002 | 256.1 |
| 1400 | 13 | 4.690 | 4.572 | 35.041 | 243.8 |
| 1101 | 14 | 6.339 | 6.234 | 35.104 | 196.8 |
| 924 | 15 | 8.026 | 7.928 | 35.115 | 149.2 |
| 674 | 16 | 12.896 | 12.802 | 35.711 | 163.5 |
| 526 | 17 | 15.841 | 15.757 | 36.159 | 181.1 |
| 376 | 18 | 17.883 | 17.818 | 36.494 | 192.0 |
| 275 | 19 | 18.644 | 18.595 | 36.583 | 197.7 |
| 167 | 20 | 20.441 | 20.410 | 36.750 | 208.5 |
| 110 | 21 | 22.379 | 22.357 | 41.604 | 209.8 |
| 55 | 22 | 23.727 | 23.715 | 36.861 | 210.7 |
| 4 | 23 | 23.732 | 23.731 | 36.855 | 211.1 |

Abaco 2001 R.V. Oceanus
 CTD Station 29 (CTD029)
 Latitude 26.534 N Longitude 71.337 W
 03-May-2001 19:57 Z

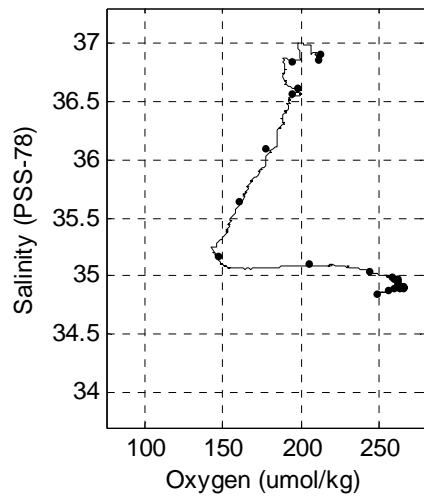
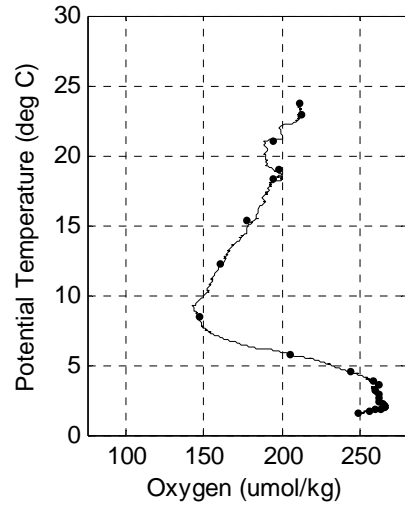
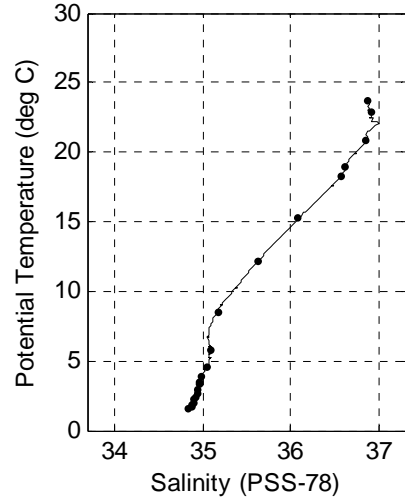
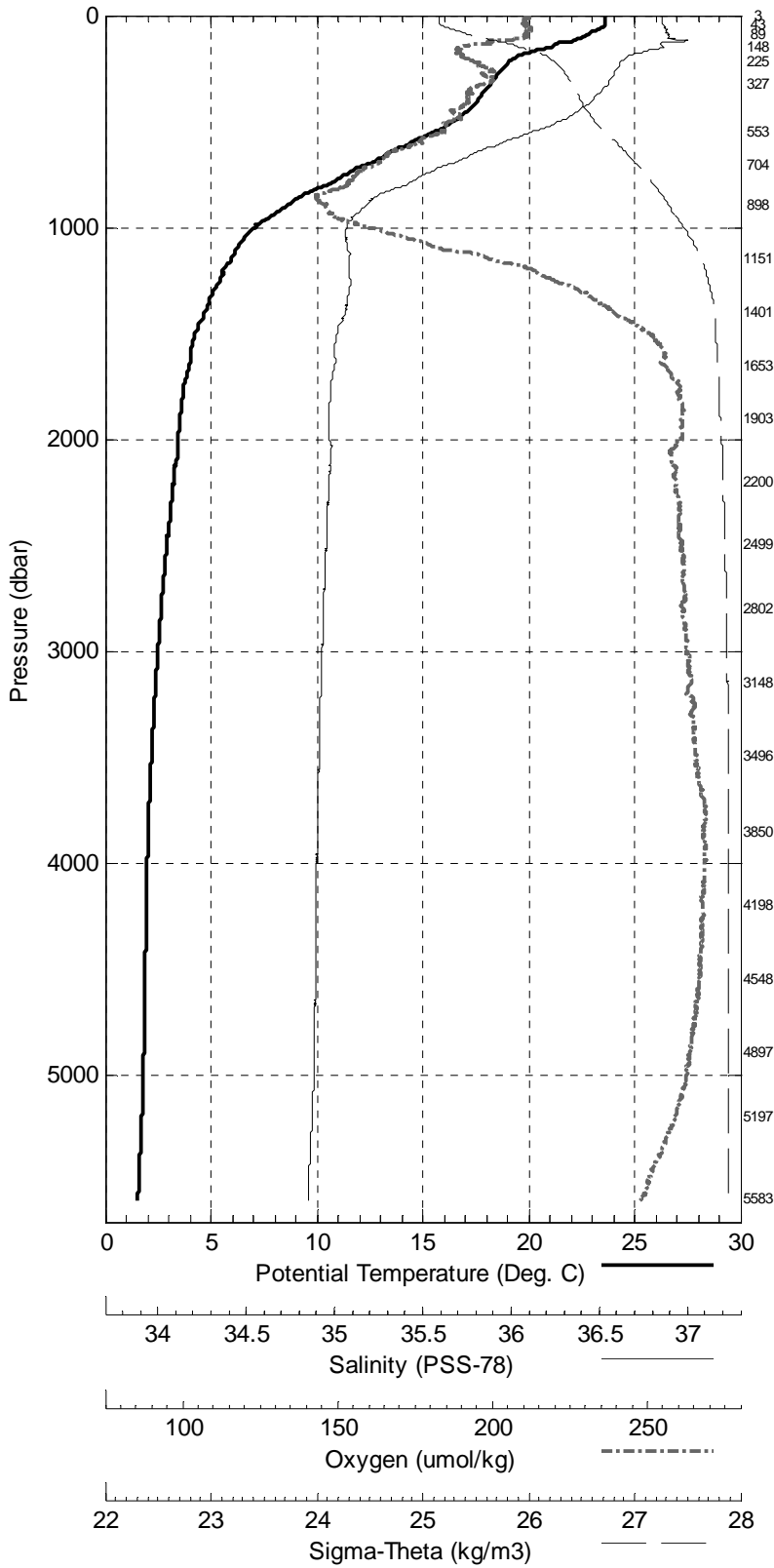


ABACO-01 R.V. Oceanus
 CTD Station 30 (CTD030)
 Latitude 26.537N Longitude 71.009W
 04-May-2001 02:10Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.632 | 23.632 | 36.855 | 211.3 | 0.003 | 25.156 |
| 10 | 23.636 | 23.634 | 36.857 | 211.7 | 0.028 | 25.157 |
| 20 | 23.640 | 23.636 | 36.856 | 210.4 | 0.056 | 25.156 |
| 30 | 23.640 | 23.634 | 36.857 | 210.3 | 0.084 | 25.157 |
| 50 | 23.588 | 23.578 | 36.871 | 211.3 | 0.140 | 25.184 |
| 75 | 23.042 | 23.026 | 36.875 | 211.6 | 0.208 | 25.348 |
| 100 | 22.642 | 22.621 | 36.892 | 210.9 | 0.273 | 25.479 |
| 125 | 21.747 | 21.722 | 36.915 | 199.0 | 0.333 | 25.752 |
| 150 | 21.075 | 21.046 | 36.867 | 188.5 | 0.388 | 25.903 |
| 200 | 19.343 | 19.306 | 36.647 | 191.2 | 0.488 | 26.201 |
| 250 | 18.773 | 18.728 | 36.599 | 198.7 | 0.579 | 26.314 |
| 300 | 18.394 | 18.341 | 36.562 | 199.8 | 0.668 | 26.384 |
| 400 | 17.671 | 17.603 | 36.464 | 192.0 | 0.839 | 26.492 |
| 500 | 16.461 | 16.379 | 36.262 | 185.9 | 1.003 | 26.631 |
| 600 | 14.490 | 14.399 | 35.947 | 177.4 | 1.152 | 26.834 |
| 700 | 12.539 | 12.442 | 35.659 | 162.4 | 1.283 | 27.015 |
| 800 | 10.529 | 10.430 | 35.399 | 153.1 | 1.397 | 27.189 |
| 900 | 8.608 | 8.509 | 35.170 | 145.8 | 1.496 | 27.329 |
| 1000 | 7.132 | 7.032 | 35.069 | 160.1 | 1.581 | 27.468 |
| 1100 | 6.345 | 6.241 | 35.074 | 183.8 | 1.653 | 27.580 |
| 1200 | 5.690 | 5.581 | 35.085 | 213.0 | 1.715 | 27.673 |
| 1300 | 5.255 | 5.140 | 35.081 | 228.5 | 1.771 | 27.723 |
| 1400 | 4.834 | 4.713 | 35.061 | 239.3 | 1.823 | 27.757 |
| 1500 | 4.393 | 4.269 | 35.016 | 250.6 | 1.872 | 27.771 |
| 1750 | 3.853 | 3.711 | 34.975 | 260.3 | 1.991 | 27.796 |
| 2000 | 3.591 | 3.430 | 34.970 | 261.0 | 2.106 | 27.820 |
| 2500 | 3.119 | 2.917 | 34.953 | 261.0 | 2.327 | 27.856 |
| 3000 | 2.735 | 2.490 | 34.930 | 262.6 | 2.542 | 27.875 |
| 3500 | 2.477 | 2.186 | 34.912 | 265.5 | 2.755 | 27.886 |
| 4000 | 2.336 | 1.992 | 34.900 | 268.3 | 2.970 | 27.892 |
| 4500 | 2.297 | 1.896 | 34.892 | 266.8 | 3.193 | 27.894 |
| 5000 | 2.264 | 1.802 | 34.882 | 262.7 | 3.427 | 27.893 |
| 5500 | 2.098 | 1.579 | 34.853 | 250.1 | 3.669 | 27.887 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5583 | 24 | 2.075 | 1.545 | 34.849 | 248.6 |
| 5197 | 1 | 2.220 | 1.735 | 34.873 | 256.4 |
| 4897 | 2 | 2.273 | 1.825 | 34.885 | 260.6 |
| 4549 | 3 | 2.293 | 1.886 | 34.890 | 263.9 |
| 4198 | 4 | 2.310 | 1.944 | 34.896 | 265.6 |
| 3851 | 5 | 2.361 | 2.034 | 34.902 | 266.1 |
| 3497 | 6 | 2.476 | 2.184 | 34.912 | 265.3 |
| 3149 | 7 | 2.658 | 2.399 | 34.924 | 262.3 |
| 2803 | 8 | 2.892 | 2.664 | 34.939 | 262.0 |
| 2499 | 9 | 3.123 | 2.920 | 34.951 | 262.3 |
| 2200 | 10 | 3.440 | 3.261 | 34.973 | 259.5 |
| 1904 | 11 | 3.679 | 3.525 | 34.971 | 262.8 |
| 1653 | 12 | 4.001 | 3.867 | 34.989 | 258.6 |
| 1402 | 13 | 4.670 | 4.551 | 35.045 | 244.2 |
| 1152 | 14 | 5.935 | 5.828 | 35.100 | 206.0 |
| 899 | 15 | 8.601 | 8.502 | 35.172 | 146.9 |
| 704 | 16 | 12.280 | 12.185 | 35.633 | 160.4 |
| 554 | 17 | 15.356 | 15.269 | 36.084 | 177.2 |
| 328 | 18 | 18.362 | 18.304 | 36.555 | 194.4 |
| 225 | 19 | 19.018 | 18.977 | 36.614 | 197.7 |
| 149 | 20 | 20.897 | 20.868 | 36.840 | 194.8 |
| 90 | 21 | 22.930 | 22.912 | 36.907 | 212.5 |
| 44 | 22 | 23.660 | 23.650 | 36.860 | 211.7 |
| 3 | 23 | 23.656 | 23.656 | 36.860 | 211.6 |

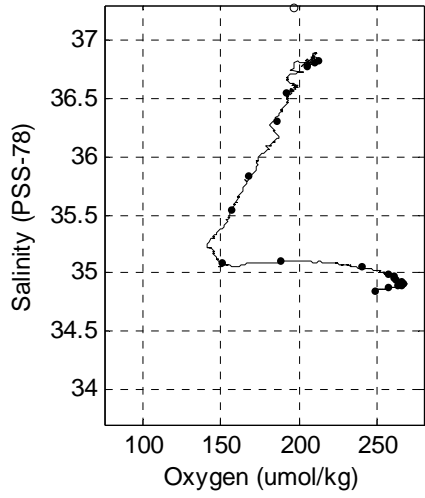
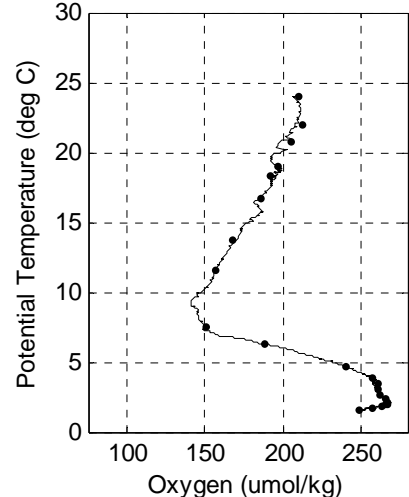
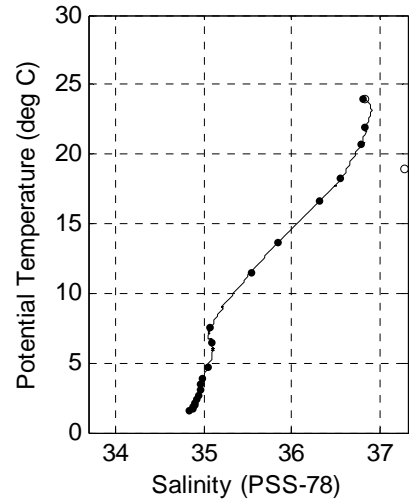
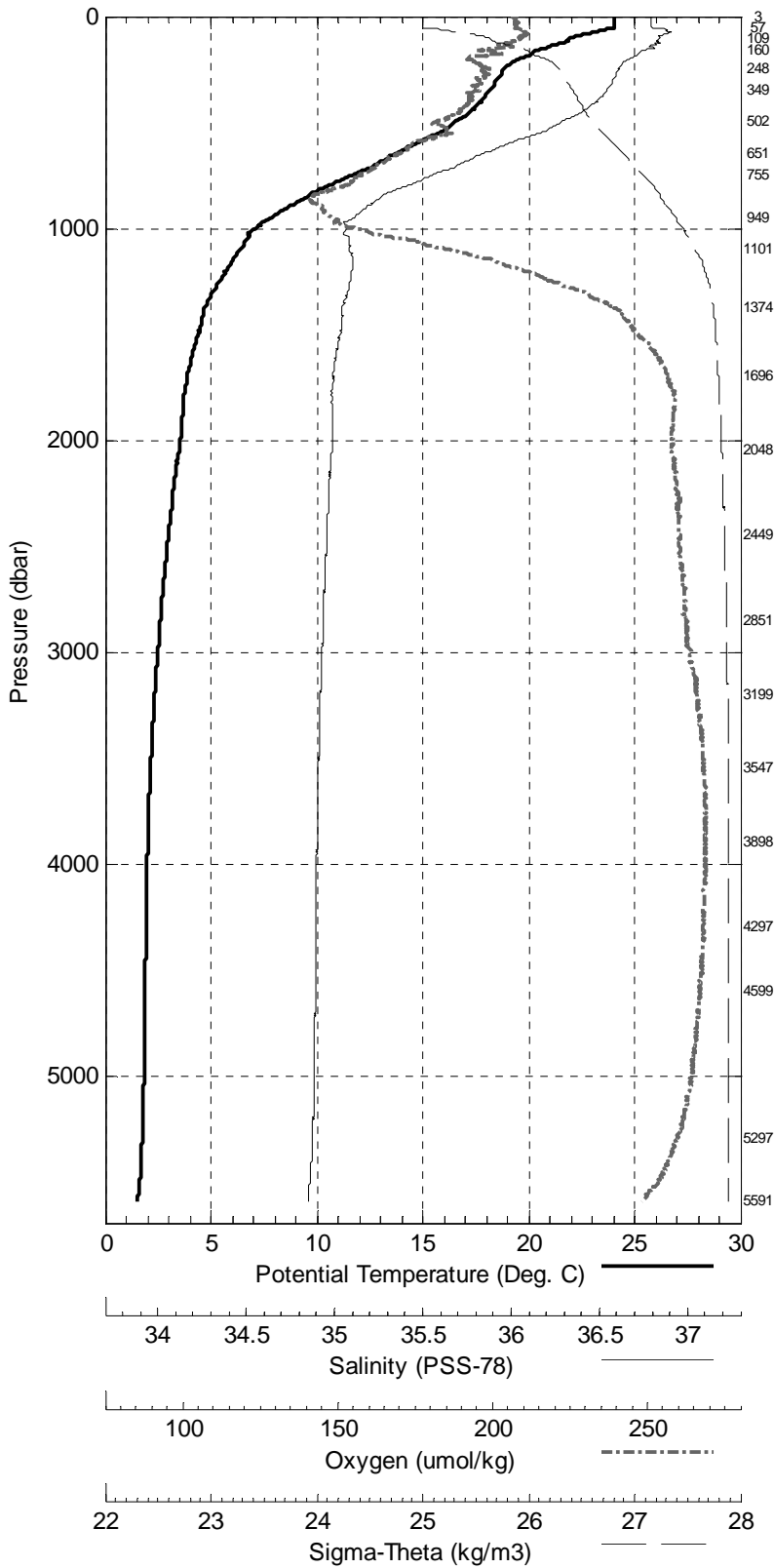
Abaco 2001 R.V. Oceanus
 CTD Station 30 (CTD030)
 Latitude 26.537 N Longitude 71.009 W
 04-May-2001 02:10 Z



ABACO-01 R.V. Oceanus
 CTD Station 31 (CTD031)
 Latitude 26.540N Longitude 70.681W
 04-May-2001 11:18Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|--------------------|---|----------------------------|
| 1 | 24.018 | 24.018 | 36.795 | 206.7 | 0.003 | 24.996 |
| 10 | 24.015 | 24.013 | 36.797 | 207.2 | 0.030 | 24.999 |
| 20 | 24.024 | 24.020 | 36.797 | 207.4 | 0.059 | 24.997 |
| 30 | 24.023 | 24.016 | 36.797 | 208.3 | 0.089 | 24.998 |
| 50 | 24.026 | 24.015 | 36.798 | 206.9 | 0.148 | 24.999 |
| 75 | 23.173 | 23.157 | 36.903 | 211.6 | 0.219 | 25.332 |
| 100 | 22.084 | 22.064 | 36.847 | 208.7 | 0.281 | 25.604 |
| 125 | 21.561 | 21.536 | 36.829 | 204.2 | 0.340 | 25.738 |
| 150 | 20.810 | 20.781 | 36.810 | 198.1 | 0.395 | 25.933 |
| 200 | 19.551 | 19.515 | 36.666 | 191.7 | 0.497 | 26.161 |
| 250 | 18.876 | 18.831 | 36.611 | 199.8 | 0.590 | 26.296 |
| 300 | 18.556 | 18.503 | 36.580 | 195.4 | 0.679 | 26.357 |
| 400 | 17.820 | 17.751 | 36.487 | 192.7 | 0.853 | 26.473 |
| 500 | 16.565 | 16.483 | 36.274 | 181.3 | 1.018 | 26.615 |
| 600 | 14.757 | 14.665 | 35.985 | 173.8 | 1.169 | 26.805 |
| 700 | 12.852 | 12.754 | 35.703 | 164.0 | 1.303 | 26.987 |
| 800 | 10.592 | 10.493 | 35.403 | 151.6 | 1.420 | 27.181 |
| 900 | 8.659 | 8.559 | 35.175 | 145.4 | 1.520 | 27.325 |
| 1000 | 7.192 | 7.091 | 35.061 | 156.3 | 1.606 | 27.454 |
| 1100 | 6.453 | 6.347 | 35.080 | 185.3 | 1.679 | 27.571 |
| 1200 | 5.795 | 5.685 | 35.092 | 210.4 | 1.742 | 27.666 |
| 1300 | 5.180 | 5.066 | 35.068 | 229.2 | 1.798 | 27.721 |
| 1400 | 4.756 | 4.637 | 35.044 | 242.2 | 1.850 | 27.752 |
| 1500 | 4.509 | 4.383 | 35.031 | 246.8 | 1.900 | 27.770 |
| 1750 | 3.950 | 3.807 | 34.989 | 257.4 | 2.019 | 27.797 |
| 2000 | 3.716 | 3.553 | 34.987 | 257.9 | 2.135 | 27.821 |
| 2500 | 3.134 | 2.932 | 34.954 | 260.5 | 2.358 | 27.855 |
| 3000 | 2.736 | 2.491 | 34.929 | 264.1 | 2.574 | 27.874 |
| 3500 | 2.460 | 2.169 | 34.910 | 267.9 | 2.786 | 27.886 |
| 4000 | 2.332 | 1.989 | 34.899 | 268.7 | 3.001 | 27.892 |
| 4500 | 2.307 | 1.906 | 34.893 | 267.5 | 3.224 | 27.893 |
| 5000 | 2.294 | 1.832 | 34.885 | 264.0 | 3.459 | 27.893 |
| 5500 | 2.152 | 1.630 | 34.860 | 253.3 | 3.704 | 27.888 |
| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | |
| 5592 | 24 | 2.082 | 1.551 | 34.850 | 248.8 | |
| 5297 | 1 | 2.246 | 1.747 | 34.874 | 257.2 | |
| 4599 | 3 | 2.304 | 1.890 | 34.891 | 264.1 | |
| 4298 | 4 | 2.313 | 1.936 | 34.895 | 266.2 | |
| 3898 | 5 | 2.347 | 2.015 | 34.902 | 267.2 | |
| 3548 | 6 | 2.444 | 2.147 | 34.909 | 267.6 | |
| 3200 | 7 | 2.608 | 2.345 | 34.921 | 266.2 | |
| 2851 | 8 | 2.851 | 2.619 | 34.939 | 262.4 | |
| 2449 | 9 | 3.197 | 2.998 | 34.959 | 261.2 | |
| 2049 | 10 | 3.566 | 3.400 | 34.975 | 260.8 | |
| 1696 | 11 | 4.012 | 3.874 | 34.994 | 258.0 | |
| 1374 | 12 | 4.836 | 4.718 | 35.052 | 240.3 | |
| 1102 | 13 | 6.516 | 6.410 | 35.106 | 189.0 | |
| 950 | 14 | 7.659 | 7.561 | 35.084 | 151.3 | |
| 755 | 15 | 11.623 | 11.523 | 35.541 | 156.5 | |
| 651 | 16 | 13.735 | 13.640 | 35.833 | 167.9 | |
| 502 | 17 | 16.746 | 16.662 | 36.305 | 185.6 | |
| 349 | 18 | 18.344 | 18.282 | 36.550 | 192.2 | |
| 248 | 19 | 18.973 | 18.928 | 37.272 | 197.3 | |
| 161 | 20 | 20.702 | 20.672 | 36.772 | 205.7 | |
| 110 | 21 | 21.979 | 21.957 | 36.827 | 212.7 | |
| 58 | 22 | 23.959 | 23.946 | 36.814 | 210.3 | |
| 3 | 23 | 23.951 | 23.950 | 36.805 | 209.9 | |

Abaco 2001 R.V. Oceanus
 CTD Station 31 (CTD031)
 Latitude 26.540 N Longitude 70.681 W
 04-May-2001 11:18 Z

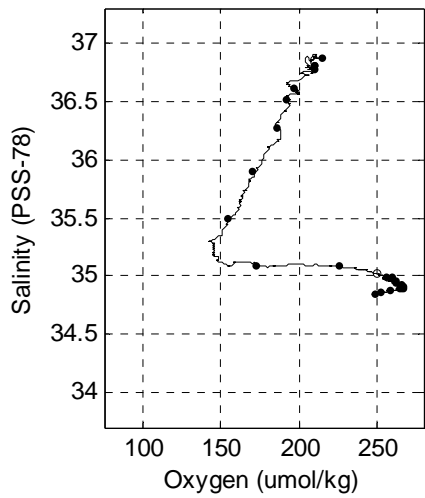
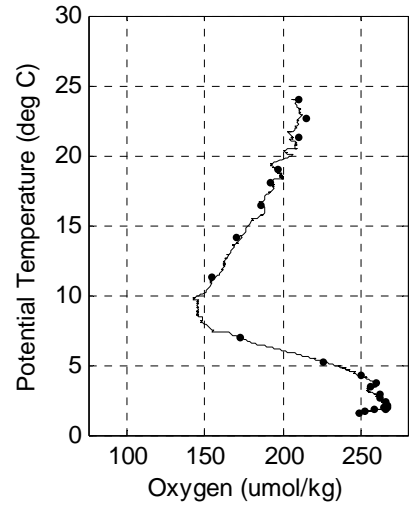
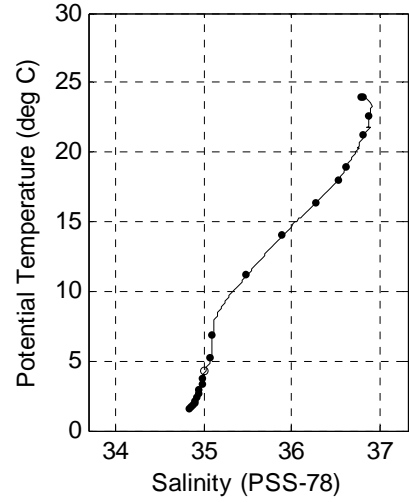
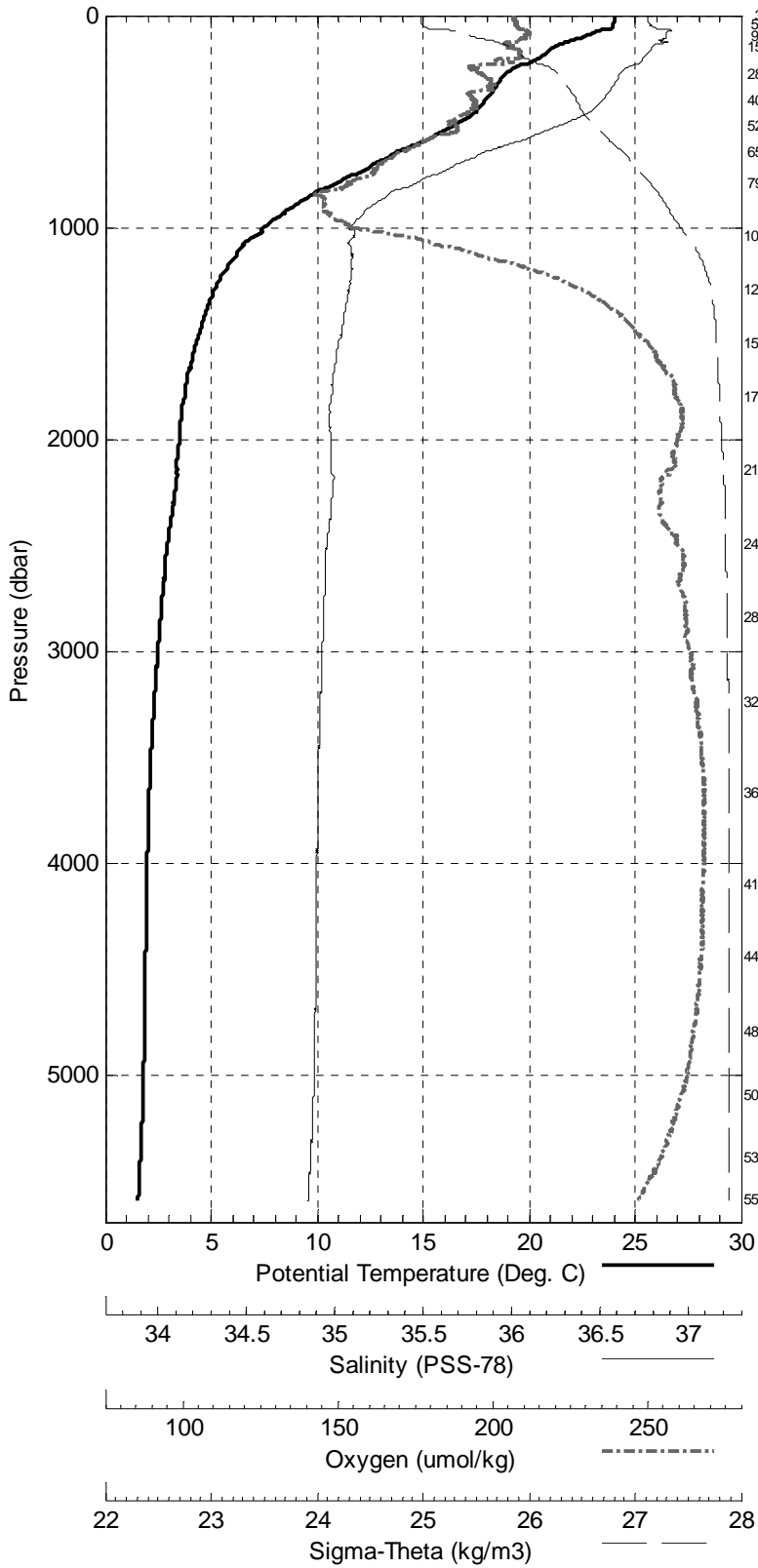


ABACO-01 R.V. Oceanus
 CTD Station 32 (CTD032)
 Latitude 26.521N Longitude 70.200W
 04-May-2001 18:03Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 24.017 | 24.016 | 36.773 | 205.8 | 0.003 | 24.979 |
| 10 | 24.021 | 24.019 | 36.774 | 207.1 | 0.030 | 24.980 |
| 20 | 24.019 | 24.015 | 36.775 | 207.8 | 0.059 | 24.981 |
| 30 | 24.010 | 24.004 | 36.775 | 207.9 | 0.089 | 24.985 |
| 50 | 23.983 | 23.972 | 36.800 | 207.8 | 0.149 | 25.013 |
| 75 | 23.189 | 23.173 | 36.891 | 211.2 | 0.220 | 25.318 |
| 100 | 22.599 | 22.579 | 36.877 | 209.9 | 0.285 | 25.480 |
| 125 | 21.769 | 21.744 | 36.846 | 206.6 | 0.346 | 25.693 |
| 150 | 21.156 | 21.127 | 36.797 | 204.9 | 0.403 | 25.827 |
| 200 | 20.532 | 20.494 | 36.747 | 208.6 | 0.511 | 25.963 |
| 250 | 19.243 | 19.197 | 36.640 | 194.9 | 0.611 | 26.224 |
| 300 | 18.751 | 18.697 | 36.603 | 198.5 | 0.703 | 26.325 |
| 400 | 18.002 | 17.932 | 36.514 | 193.8 | 0.880 | 26.449 |
| 500 | 16.850 | 16.766 | 36.326 | 187.6 | 1.048 | 26.589 |
| 600 | 14.939 | 14.846 | 36.014 | 176.0 | 1.201 | 26.788 |
| 700 | 12.765 | 12.667 | 35.691 | 164.0 | 1.336 | 26.995 |
| 800 | 10.877 | 10.776 | 35.438 | 153.0 | 1.453 | 27.157 |
| 900 | 8.967 | 8.866 | 35.205 | 145.3 | 1.555 | 27.301 |
| 1000 | 7.550 | 7.447 | 35.090 | 155.4 | 1.644 | 27.426 |
| 1100 | 6.487 | 6.382 | 35.093 | 188.9 | 1.719 | 27.576 |
| 1200 | 5.800 | 5.690 | 35.096 | 212.1 | 1.782 | 27.668 |
| 1300 | 5.248 | 5.133 | 35.078 | 229.7 | 1.838 | 27.722 |
| 1400 | 4.854 | 4.733 | 35.055 | 240.2 | 1.890 | 27.750 |
| 1500 | 4.572 | 4.445 | 35.039 | 246.7 | 1.940 | 27.769 |
| 1750 | 3.953 | 3.811 | 34.984 | 258.5 | 2.061 | 27.793 |
| 2000 | 3.673 | 3.510 | 34.979 | 259.5 | 2.177 | 27.819 |
| 2500 | 3.130 | 2.927 | 34.955 | 259.6 | 2.400 | 27.856 |
| 3000 | 2.728 | 2.483 | 34.929 | 263.5 | 2.615 | 27.874 |
| 3500 | 2.444 | 2.153 | 34.909 | 267.5 | 2.827 | 27.887 |
| 4000 | 2.329 | 1.986 | 34.899 | 267.9 | 3.042 | 27.892 |
| 4500 | 2.302 | 1.901 | 34.893 | 266.8 | 3.264 | 27.894 |
| 5000 | 2.275 | 1.813 | 34.883 | 262.6 | 3.499 | 27.893 |
| 5500 | 2.111 | 1.591 | 34.854 | 250.3 | 3.742 | 27.887 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5591 | 24 | 2.076 | 1.545 | 34.849 | 248.6 |
| 5397 | 1 | 2.165 | 1.657 | 34.862 | 253.2 |
| 5098 | 2 | 2.255 | 1.782 | 34.879 | 258.5 |
| 4801 | 3 | 2.286 | 1.849 | 34.887 | 265.8 |
| 4451 | 4 | 2.300 | 1.905 | 34.893 | 265.1 |
| 4104 | 5 | 2.321 | 1.966 | 34.898 | 266.8 |
| 3673 | 6 | 2.396 | 2.087 | 34.906 | 267.9 |
| 3251 | 7 | 2.579 | 2.312 | 34.919 | 266.3 |
| 2852 | 8 | 2.837 | 2.605 | 34.936 | 262.4 |
| 2499 | 9 | 3.121 | 2.919 | 34.953 | 262.4 |
| 2152 | 10 | 3.558 | 3.383 | 34.987 | 256.8 |
| 1800 | 11 | 3.900 | 3.753 | 34.985 | 259.5 |
| 1554 | 12 | 4.360 | 4.230 | 35.020 | 250.8 |
| 1298 | 13 | 5.309 | 5.194 | 35.079 | 226.5 |
| 1050 | 14 | 6.992 | 6.887 | 35.088 | 173.0 |
| 798 | 15 | 11.305 | 11.202 | 35.488 | 153.9 |
| 650 | 16 | 14.123 | 14.026 | 35.889 | 170.8 |
| 527 | 17 | 16.481 | 16.394 | 36.267 | 186.5 |
| 402 | 18 | 18.072 | 18.002 | 36.519 | 192.2 |
| 281 | 19 | 19.029 | 18.978 | 36.615 | 197.1 |
| 151 | 20 | 21.277 | 21.247 | 36.806 | 210.0 |
| 99 | 21 | 22.612 | 22.592 | 36.864 | 215.7 |
| 50 | 22 | 23.920 | 23.909 | 36.801 | 210.5 |
| 4 | 23 | 24.018 | 24.018 | 36.768 | 209.9 |

Abaco 2001 R.V. Oceanus
 CTD Station 32 (CTD032)
 Latitude 26.521 N Longitude 70.200 W
 04-May-2001 18:03 Z



ABACO-01 R.V. Oceanus
 CTD Station 33 (CTD033)
 Latitude 26.520N Longitude 69.806W
 04-May-2001 00:27Z

| Pressure dbar | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg | DynHt m ² /s ² | SigTh kg/m ³ |
|------------------|--------------|----------------|--------------------|-------------------|---|----------------------------|
| 1 | 23.814 | 23.813 | 36.837 | 208.7 | 0.003 | 25.089 |
| 10 | 23.813 | 23.810 | 36.839 | 207.9 | 0.029 | 25.091 |
| 20 | 23.818 | 23.814 | 36.839 | 209.0 | 0.057 | 25.090 |
| 30 | 23.820 | 23.813 | 36.839 | 209.5 | 0.086 | 25.090 |
| 50 | 23.824 | 23.813 | 36.839 | 208.8 | 0.144 | 25.090 |
| 75 | 23.558 | 23.542 | 36.895 | 210.7 | 0.215 | 25.213 |
| 100 | 23.073 | 23.052 | 36.884 | 211.7 | 0.284 | 25.349 |
| 125 | 22.309 | 22.284 | 36.860 | 210.7 | 0.348 | 25.551 |
| 150 | 21.601 | 21.571 | 36.810 | 205.3 | 0.408 | 25.714 |
| 200 | 20.597 | 20.559 | 36.763 | 208.1 | 0.519 | 25.957 |
| 250 | 19.388 | 19.342 | 36.649 | 191.9 | 0.619 | 26.194 |
| 300 | 18.872 | 18.818 | 36.606 | 199.2 | 0.712 | 26.296 |
| 400 | 18.046 | 17.977 | 36.520 | 193.1 | 0.890 | 26.443 |
| 500 | 16.971 | 16.887 | 36.343 | 186.4 | 1.059 | 26.573 |
| 600 | 15.371 | 15.277 | 36.085 | 181.0 | 1.215 | 26.747 |
| 700 | 13.384 | 13.283 | 35.778 | 167.8 | 1.355 | 26.938 |
| 800 | 11.130 | 11.027 | 35.458 | 149.2 | 1.478 | 27.127 |
| 900 | 9.167 | 9.064 | 35.226 | 145.4 | 1.583 | 27.285 |
| 1000 | 7.609 | 7.505 | 35.091 | 153.2 | 1.673 | 27.418 |
| 1100 | 6.728 | 6.620 | 35.095 | 179.4 | 1.750 | 27.546 |
| 1200 | 5.869 | 5.758 | 35.092 | 208.1 | 1.816 | 27.657 |
| 1300 | 5.379 | 5.263 | 35.083 | 225.9 | 1.873 | 27.710 |
| 1400 | 5.026 | 4.904 | 35.076 | 234.9 | 1.927 | 27.746 |
| 1500 | 4.673 | 4.545 | 35.055 | 243.0 | 1.977 | 27.771 |
| 1750 | 4.048 | 3.903 | 35.009 | 253.6 | 2.097 | 27.804 |
| 2000 | 3.720 | 3.556 | 34.996 | 254.6 | 2.212 | 27.828 |
| 2500 | 3.130 | 2.928 | 34.961 | 254.8 | 2.432 | 27.861 |
| 3000 | 2.779 | 2.533 | 34.935 | 254.3 | 2.647 | 27.875 |
| 3500 | 2.483 | 2.191 | 34.912 | 267.7 | 2.862 | 27.886 |
| 4000 | 2.350 | 2.006 | 34.901 | 268.7 | 3.077 | 27.892 |
| 4500 | 2.294 | 1.893 | 34.892 | 265.0 | 3.300 | 27.894 |
| 5000 | 2.255 | 1.794 | 34.880 | 261.6 | 3.534 | 27.892 |
| 5500 | 2.100 | 1.580 | 34.853 | 249.4 | 3.775 | 27.886 |

| Pressure dbar | Niskin | Temp90 °C | PoTemp90 °C | Salinity PSS-78 | Oxygen µmol/kg |
|------------------|--------|--------------|----------------|--------------------|-------------------|
| 5592 | 24 | 2.081 | 1.550 | 34.850 | 248.5 |
| 5199 | 1 | 2.208 | 1.724 | 34.871 | 256.4 |
| 4848 | 2 | 2.272 | 1.829 | 34.884 | 260.7 |
| 4499 | 3 | 2.295 | 1.895 | 34.891 | 247.7 |
| 4200 | 4 | 2.324 | 1.957 | 34.897 | 263.8 |
| 3901 | 5 | 2.361 | 2.028 | 34.901 | 267.4 |
| 3600 | 6 | 2.445 | 2.143 | 34.909 | 268.0 |
| 3299 | 7 | 2.580 | 2.307 | 34.918 | 261.7 |
| 3000 | 8 | 2.773 | 2.527 | 34.936 | 255.6 |
| 2652 | 9 | 3.029 | 2.813 | 34.956 | 254.5 |
| 2300 | 10 | 3.279 | 3.094 | 34.966 | 259.2 |
| 1950 | 11 | 3.790 | 3.630 | 35.002 | 255.3 |
| 1602 | 12 | 4.414 | 4.280 | 35.066 | 238.7 |
| 1253 | 13 | 5.590 | 5.476 | 35.089 | 217.6 |
| 1052 | 14 | 7.213 | 7.106 | 35.111 | 169.6 |
| 901 | 15 | 9.102 | 8.999 | 35.217 | 146.3 |
| 751 | 16 | 12.129 | 12.028 | 35.601 | 157.3 |
| 602 | 17 | 15.220 | 15.126 | 36.066 | 177.4 |
| 452 | 18 | 17.524 | 17.447 | 36.435 | 188.9 |
| 302 | 19 | 18.786 | 18.732 | 36.601 | 200.2 |
| 183 | 20 | 20.795 | 20.760 | 36.789 | 203.4 |
| 109 | 21 | 22.613 | 22.590 | 36.862 | 212.7 |
| 55 | 22 | 23.737 | 23.726 | 36.843 | 211.0 |
| 3 | 23 | 23.721 | 23.720 | 36.844 | 210.9 |

Abaco 2001 R.V. Oceanus
 CTD Station 33 (CTD033)
 Latitude 26.520 N Longitude 69.806 W
 04-May-2001 00:27 Z

