

Sapelo Island (SAP) NERR Water Quality Metadata
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2. Entry Verification:

Deployment data (.DATfiles) are uploaded from the YSI 6600 datalogger to a personal computer. Data plots are produced and examined and erroneous data are detected using the PC6000 or EcoWatch software from YSI. Notes are made of any unusual data during that deployment. Files are exported from EcoWatch in a comma-delimited format (.CSV) and opened in Microsoft Excel for pre-processing with the EQWin format macro that was developed by the CDMO. Data files are revised using the EQWinformat.xls macro that 1) ensure parameters are in the correct order; 2) convert depth in feet to depth in meters; 3) format the data to the correct number of decimal points; 4) inserts a station identifying code; 5) insert a corrected time column; 6) allows the user to remove any pre and post deployment data from the file. Where deployment overlap occurs between files, the data produced by the newly calibrated sonde is accepted as being the most accurate.

The pre-processed data are then copied into EQWin where: 1) the station and parameters are verified against the database; 2) the file configurations are checked; 3) the date and time formats are checked; 4) the data are checked for duplication; 5) the data are checked for outliers (data outside the acceptable range of the sensors) and 6) graphs are generated. The reports and graphs are printed and the data reviewed. Data at the beginning and end of each data record when the instrument was out of the water are deleted. These data are identified by field notes that document the times of deployment and retrieval and the sudden change in specific conductivity and depth records. Data in the remainder of the record are not deleted unless supporting reasons can be documented. EQWin is also used to generate statistics, view graphs, create customized reports and queries of the data, cross query the water, weather, and nutrient data and finally export the data to the CDMO.

The anomalous data are evaluated to determine whether to flag or delete the suspect data. Data are flagged if the values are: 1) outside the range expected for the site (see Site

Location and Character section 5), 2) outside the range of measurements and accuracy established for the sensors (see section 9), or 3) outside the range established for good water quality conditions (e.g., turbidity >1000 NTU, negative turbidity, variable DO, or sudden data spikes). Data outside the acceptable range for a particular site are investigated for validity based on weather data, field observations, OC checks, data printouts, and instrument diagnostics. Data are deleted if the anomalies are attributed to: 1) sensor malfunction –if the voltage reading is outside the range established for the sensor or the sensor will not calibrate, 2) exposure of the sensors during low tide – identified by unusual depth, temperature, and specific conductivity data, or 3) fouling of the sensors by aquatic organisms, debris, or sediment –detected by in situ sensor with measurements (see Section 4). In addition sensor readings that differ significantly (>10%) from standard solutions (e.g., conductivity) suggest that the sensor was fouled during deployment. After corrections are made to the pre-processed data in Excel, it is imported into the EQWin database and an updated file is submitted to the CDMO via FTP for archival.

Patrick Hagan is responsible for all data management.

3) Research objectives:

Hydrological studies (Ragotskie and Bryson, 1955; Imberger et al., 1983) have shown that there are three tidal excursions along the length of the Duplin River, resulting in three distinct water masses. The two monitoring sites in the Duplin River, called the Lower Duplin site and the Hunt Dock site, are located within the lower and upper water masses, respectively. Water passing the Lower Duplin site during flood tide has come from Doboy Sound, which receives input from the Altamaha River via the Intra-Coastal Waterway and from the Atlantic Ocean. The water in the lower water mass is pushed further up the Duplin or up smaller tidal creeks and some is pushed onto the marsh surface by the flood tide and recedes into the main channel during ebb tide. The water in the upper water mass, which passes the Hunt Camp station, is pushed up small creek channels and onto the marsh at each high tide. Thus the two stations monitor conditions in two hydrological separate water masses, one of which is heavily influenced by exchanges with Doboy Sound and the other which is influenced by its twice-daily contact with the marsh surface.

Sapelo Island is only accessible by passenger ferry. Due to its isolation, the salt marsh and tidal waters of the SAP NERR show relatively little evidence of human impact. Thus the Marsh Landing dock, where the Lower Duplin site is located, the primary access point for the approximately 200-300 residents, commuters and daily visitors plus barge off loading was chosen as the most directly impacted site. The Lower Duplin site is also readily accessible and centrally located within the SAP NERR. The University of Georgia Marine Institute has used this as a monitoring site for years and SAP NERR continues to do so. The Hunt Dock site was selected in July 1999 for monitoring. It is a dock only used for transporting hunters during the fall season. It is further up the Duplin, where the primary

usage of the river is for pleasure boating and crabbing. Therefore it is considered the least impacted site.

Two previously maintained stations in the Duplin River (Flume Dock and Marsh Landing) have been discontinued and moved to Cabretta Creek and Dean Creek; respectively. The addition of these two sites allow for collection of comparative water quality data across both a larger spatial domain and a wider salinity regime than the previous duplicative, near surface stations located at the discontinued sites. These sites are also different from the Duplin River sites as they are representative of poorly studied, small creek and salt marsh systems. The site changes in the Sapelo Island NERR water quality monitoring program allow for comparisons between larger, intensively studied, tidal river regimes (Duplin River) and smaller, lesser known, tidal creek systems of greater marine influence (Cabretta Creek and Dean Creek). These new sites differ from the Duplin River sites in both marine water delivery and dynamics associated with rainfall events. The marsh (watershed) to creek volume ratios within the new sites also differ with the Dean Creek site feeding into Doboy Sound with an extensive associated marsh hence, freshwater runoff. The Dean Creek site therefore displays highly dynamic shifts in salinity in response to rainfall events. By contrast, the Cabretta Creek site with its mouth feeding directly in to Cabretta inlet, located on Sapelo Island's Atlantic Ocean frontage, displays a much lower marsh to creek volume ratio therefore, reduced salinity dynamics associated with rainfall events by comparison to either the Dean Creek site or the Duplin River sites.

The long-term trends and short-term variability within the water quality and hydrodynamics of these differing water quality monitoring sites promote research questions and provide information related to differing temporal salinity dynamics and biological responses

4. Research Methods:

Before each YSI 6600 data logger is deployed, calibration and maintenance is performed following the manufacturer's instructions. Calibration standards are only required for pH, conductivity, and turbidity, all other parameters are done as described in the manual. Buffer solutions for 2-point calibration (pH 7 and 10) are purchased from a scientific supply house. The conductivity standard is made using a 0.2 M solution of KCl (24.82mS/cm = 14.92 g/L) or from serial dilution of a certified conductivity standard. The turbidity calibration uses a YSI produced solution. The dissolved oxygen membranes are replaced before deployment and are allowed to sit at least 24 hours prior to deployment. Calibration is then verified by running a standard as a sample after each calibration.

When deployed, the weather conditions and tidal stage are recorded in the field observation log. The data logger is placed inside a length of PVC pipe attached to the dock. The data logger is attached to a non-floating dock by a monofilament cable and run down a PVC pipe to rest 0.5m above the surface bottom. Because of the large tidal range, water is continually flushed through the PVC pipes, thus

eliminating the problem of creating a stagnant column of water within the pipe with data logger. Every 15 minutes during the sampling period measurements are taken for temperature, specific conductance, salinity, pH, dissolved oxygen concentration, percent saturation, depth and turbidity.

At the end of the sample period the data logger is retrieved and immediately replaced by another calibrated data logger. The data logger is then taken to the lab and runs QA/QC standards for pH, and conductivity, and dissolved oxygen, the data are uploaded, and the sonde is cleaned. Data are removed if the post calibration standards fail or if technical problems are noted. All data removed is noted in the metadata.

5. Site Location and character:

The Lower Duplin (LD) monitoring site (31 deg 25' 4" N, 81 deg 17' 46" W) is located on the Marsh Landing Dock in the Duplin River on Sapelo Island and consists of a muddy bottom habitat. Water passing the dock during flood tide originates from the Doboy Sound. The Doboy Sound receives input from the Atlantic Ocean, and the Altamaha River via the Intra-Coastal Waterway. The water is pushed up the river or up smaller tidal creeks and some is pushed onto the marsh surface by the flood tide and recedes into the main channel during ebb tide. The Marsh Landing dock is used as the main dock to the island where the ferry makes several daily runs, with several small boats that are docked there. The surrounding area vegetation is dominated by salt marsh with *Spartina* being the predominate flora. Normal tidal range for the site is 3 meters and the salinity range is 5-35 ppt. The depth at this sampling station ranges from 2.5 meters to 6.0 meters depending on tide.

The Hunt Dock monitoring site (31 deg 28' 43", 81 deg 16' 23" W) is located on the Duplin River, off of Moses Hammock, which is separated from Sapelo Island by a small tidal channel. The primary runoff at the site is from tidal creeks flowing through *Spartina* marsh and through the mud. Bottom habitat at this site includes soft mud and some oyster bed building along the shoreline with an average tidal range of 3 meters and a salinity range of 5-35 ppt. There is little human traffic this far up the Duplin and it is north of the people living on Sapelo. During the fall, the Hunt dock and Moses Hammock is the camping and docking site for deer hunters traveling to the island. These are controlled hunts and dates are available from the SAP NERR office if needed. The maximum depth at the Hunt Dock site is 4.27 meters.

Dean Creek (DC), (N 31 23 22.5W 81 16 44.2) is located on a small wooden bridge spanning Dean Creek, in close proximity to the adjacent Nannygoat Beach causeway. Dean Creek is a small tidal basin fed from the waters of Doboy Sound, which is located on Sapelo Island's south end. The creeks' salinity normally ranges between 5 and 30 ppt. The benthic community consists of a sandy-mud substrate with occasional, small, intertidal oyster reef community and mean tidal amplitude of approximately 3 meters. Average mean low water depth at the sample site is approximately 1 meter, but fluctuates due to bank erosion. The small creek feeds approximately 150 acres of *Spartina*

alterniflora dominated salt marsh, which is interspersed with small 0.5-1 acre hammocks and salt pans. Fringe community components range from Loblolly pine forests with a sub-canopy of Yaupon holly to Wax myrtle and Sable Palm.

The Cabretta Creek (CA) site coordinates are N 31 26 37.3W 81 14 23.7. The station is located on a small (one-lane), wooden, roadway bridge spanning Cabretta creek located on the island's extreme eastern side, bordering the Atlantic Ocean. The creek is fed directly from waters of the Atlantic Ocean. Cabretta experiences an average tidal range of approximately 3 meters. Average mean low water depth at the sample site is approximately 3.25 meters. Salinity ranges with exception to major, long-term precipitation events, varies from 15-36 ppt., seasonally. The benthos is composed primarily of sand substrate with small, intertidal oyster reef conglomerate communities. Adjacent to the site is extensive, intertidal, bank stabilization (armoring) in the form of woven rip-rap fencing and granite rocks. This manipulation is slowly becoming stabilized via oyster reef community colonization. The adjacent marshes are dominated by *Spartina alterniflora* with occasional *Juncus roemerianus* in the nearby fringe community habitat. The creek has very little adjacent uplands due to: 1) the low elevational gradient and 2) the areas geologically recent accretion genesis (Holocene) resulting in sandy soils; of which neither conditions allow for extensive floral colonization or stabilization.

There are no current studies on pollutants in this area. Sapelo Island is typically considered a pristine environment, with minimal pollutant input.

6. Data collection period: (listed by each deployment)

Cabretta creek

Deployment date	Time	Retrieval date	Time
12/21/05	15:30	1/4/06	13:30
1/4/06	14:00	1/18/06	15:00
1/18/06	15:30	2/1/06	09:30
2/1/06	10:00	2/15/06	11:30
2/15/06	12:00	2/28/06	12:30
2/28/06	13:00	3/15/06	14:00
3/15/06	14:30	3/30/06	13:00
3/30/06	13:30	4/10/06	10:30
4/10/06	11:00	4/26/06	13:30
4/26/06	14:00	5/10/06	13:00
5/10/06	13:30	5/25/06	22:30
6/5/06	13:30	6/15/06	14:30
6/15/06	15:00	6/29/06	11:00
6/29/06	11:30	7/11/06	11:30
7/11/06	12:00	7/26/06	15:00
7/26/06	15:30	8/9/06	14:00

8/9/06	14:30	8/22/06	14:30
8/22/06	15:00	9/6/06	13:00
9/6/06	13:30	9/21/06	11:00
9/21/06	11:30	10/10/06	11:30
10/10/06	12:00	10/25/06	12:00
10/25/06	12:30	11/7/06	10:30
11/7/06	11:00	11/21/06	13:00
11/21/06	13:30	12/6/06	10:30
12/6/06	11:00	12/20/06	12:00
12/20/06	12:30	1/4/07	12:00

Dean creek

Deployment date	Time	Retrieval date	Time
12/21/05	13:00	1/3/06	11:30
1/3/06	13:00	1/17/06	13:30
1/17/06	16:00	1/30/06	14:00
1/30/06	14:30	2/13/06	16:30
2/13/06	17:00	2/27/06	14:30
2/27/06	15:00	3/20/06	09:00
3/20/06	09:30	3/29/06	12:30
3/29/06	13:00	4/10/06	14:00
4/10/06	14:30	4/27/06	14:30
4/27/06	15:00	5/11/06	14:30
5/11/06	15:00	5/26/06	08:00
5/26/06	08:30	6/14/06	12:30
6/14/06	13:00	6/29/06	13:00
6/29/06	13:30	7/11/06	11:00
7/11/06	11:30	7/26/06	13:30
7/26/06	14:00	8/9/06	13:30
8/9/06	14:00	8/22/06	14:00
8/22/06	14:30	9/6/06	12:30
9/06/06	13:00	10/10/06	11:00
10/10/06	11:30	10/25/06	11:30
10/25/06	12:00	11/7/06	11:30
11/7/06	12:00	11/21/06	13:30
11/21/06	14:00	12/5/06	11:30
12/5/06	12:00	12/20/06	12:30
12/20/06	13:00	1/4/07	12:30

Hunt Dock

Deployment date	Time	Retrieval date	Time
12/21/05	14:00	1/4/06	19:00
1/4/06	19:30	1/18/06	13:30
1/18/06	14:00	1/31/06	15:00
1/31/06	15:30	2/15/06	11:00
2/15/06	11:30	2/28/06	12:30

2/28/06	13:00	3/15/06	13:30
3/15/06	14:00	3/30/06	12:30
3/30/06	13:00	4/10/06	10:30
4/10/06	11:00	4/26/06	12:00
4/26/06	14:30	5/11/06	08:00
5/11/06	08:30	5/26/06	13:00
5/26/06	13:30	6/15/06	14:00
6/15/06	14:30	6/29/06	11:00
6/29/06	11:30	7/10/06	13:30
7/10/06	14:00	7/26/06	15:00
7/26/06	15:30	8/9/06	15:30
8/9/06	16:00	8/22/06	14:00
8/22/06	14:30	9/6/06	13:30
9/6/06	14:00	9/21/06	11:30
9/21/06	12:00	10/10/06	12:00
10/10/06	12:30	10/21/06	02:00
10/25/06	13:00	11/7/06	11:00
11/7/06	11:30	11/21/06	13:00
11/21/06	13:30	12/5/06	12:30
12/5/06	13:00	12/20/06	13:30
12/20/06	14:00	1/4/07	13:00

Lower Duplin

Deployment date	Time	Retrieval date	Time
12/21/05	14:00	1/3/06	16:00
1/3/06	16:30	1/17/06	14:00
1/17/06	14:30	1/30/06	14:00
1/30/06	14:30	2/13/06	15:30
2/13/06	16:00	2/27/06	15:30
2/27/06	16:00	3/20/06	10:30
3/20/06	11:00	3/29/06	12:30
3/29/06	13:00	4/10/06	14:00
4/10/06	14:30	4/27/06	13:00
4/27/06	13:30	5/12/06	10:00
5/12/06	10:30	5/26/06	09:00
5/26/06	09:30	6/14/06	12:00
6/14/06	12:30	6/29/06	15:00
6/29/06	15:30	7/10/06	14:00
7/10/06	14:30	7/27/06	10:00
7/27/06	10:30	8/9/06	11:00
8/9/06	11:30	8/22/06	14:30
8/22/06	14:45	9/6/06	13:15
9/6/06	13:15	9/25/06	10:30
9/21/06	12:00	10/10/06	12:00
10/10/06	12:30	10/25/06	12:45
10/25/06	13:00	11/7/06	12:15

11/7/06	12:30	11/21/06	13:30
11/21/06	13:45	12/5/06	12:15
12/5/06	12:30	12/20/06	12:45
12/20/06	13:00	1/4/06	13:00

7) Distribution

According to the Ocean and Coastal Resource Management Data Dissemination Policy for the NERRS System-Wide Monitoring Program, NOAA/ERD retains the right to analyze, synthesize and publish summaries of the NERRS System-Wide Monitoring Program data. The PI retains the right to be fully credited for having collected and processed the data. Following academic courtesy standards, the PI and NERR site where the data were collected will be contacted and fully acknowledged in any subsequent publications in which any part of the data are used. Manuscripts resulting from the NOAA/OCRM supported research that is produced for publication in open literature, including refereed scientific journals will acknowledge that the research was conducted under an award from the Estuarine Reserves Division, Office of Ocean and Coastal Resource Management, national Ocean Service, National Oceanic and Atmospheric Administration. The data set enclosed within this package/transmission is only as good as the quality assurance and quality control procedures outlined by the enclosed metadata reporting statement. The user bears all responsibility for its subsequent use/misuse in any further analyses or comparisons. The Federal government does not assume liability to the Recipient of third persons, nor will the Federal government reimburse or indemnify the Recipient for its liability due to any losses resulting in any way from the use of this data.

NERR water quality data and metadata can be obtained from the Research Coordinator at the individual NERR site (please see Section 2.2-1 Principal investigators and contact persons), from the Data Manager at the Centralized Data Management Office (please see personnel directory under the general information link on the CDMO home page) and online at the CDMO home page <http://cdmo.baruch.sc.edu>. Data are available in text tab-delimited format, Microsoft Excel spreadsheet format and comma-delimited format.

8) Associated Researchers and Projects

Sapelo Island has a long history of maintaining research. In 1953, the University of Georgia Marine Institute (UGAMI) was formed and the island became a working laboratory for many. The research continues today with SAP NERR and UGAMI creating a unique partnership with much of the current research being done facilitated by SAP NERR and UGAMI together. Given UGAMI's long history on Sapelo, a bibliographic list of over 800 articles of current and previous research can be found on the UGAMI website: <http://www.uga.edu/ugami> and on the Sapelo Island NERR site: <http://www.sapelonerr.org>.

As part of the SWMP long-term monitoring program, SAP NERR also monitors Meteorological and Nutrient data which may be correlated with this Water Quality dataset. These data are available from the Research Coordinator or online at <http://cdmo.baruch.sc.edu/>.

9) Sensor specifications:

YSI 6600EDS datalogger

Parameter: Temperature
Units: Celsius (C)
Sensor Type: Thermistor
Model #: 6560
Range: -5 to 45 °C
Accuracy: +/-0.15 °C
Resolution: 0.01 °C

Parameter: Conductivity
Units: milli-Siemens per cm (mS/cm)
Sensor Type: 4-electrode cell with autoranging
Model #: 6560
Range: 0 to 100 mS/cm
Accuracy: +/-0.5% of reading + 0.001 mS/cm
Resolution: 0.001 mS/cm to 0.1 mS/cm (range dependent)

Parameter: Salinity
Units: parts per thousand (ppt)
Sensor Type: Calculated from conductivity and temperature
Range: 0 to 70 ppt
Accuracy: +/- 1.0% of reading or 0.1 ppt, whichever is greater
Resolution: 0.01 ppt

Parameter: Dissolved Oxygen % saturation
Units: percent air saturation (%)
Sensor Type: Rapid Pulse – Clark type, polarographic
Model #: 6562
Range: 0 to 500 % air saturation
Accuracy: 0-200 % air saturation, +/- 2 % of the reading or 2 % air saturation, whichever is greater; 200-500 % air saturation, +/- 6 % of the reading
Resolution: 0.1 % air saturation

Parameter: Dissolved Oxygen mg/L (Calculated from % air saturation, temperature and salinity)
Units: milligrams per Liter (mg/L)

Sensor Type: Rapid Pulse – Clark type, polarographic

Model #: 6562

Range: 0 to 50 mg/L

Accuracy: 0 to 20 mg/L, +/- 2 % of the reading or 0.2 mg/L, whichever is greater; 20 to 50 mg/L, +/- 6 % of the reading

Resolution: 0.01 mg/L

Parameter: Non-Vented Level – Shallow (Depth)

Units: feet or meters (ft or m)

Sensor Type: Stainless steel strain gauge

Range: 0 to 30 ft (9.1 m)

Accuracy: +/- 0.06 ft (0.018 m)

Resolution: 0.001 ft (0.001 m)

Parameter: pH

Units: units

Sensor Type: Glass combination electrode

Model #: 6561

Range: 0 to 14 units

Accuracy: +/- 0.2 units

Resolution: 0.01 units

Parameter: Turbidity

Units: nephelometric turbidity units (NTU)

Sensor Type: Optical, 90 ° scatter, with mechanical cleaning

Model #: 6136

Range: 0 to 1000 NTU

Accuracy: +/- 5 % reading or 2 NTU (whichever is greater)

Resolution: 0.1 NTU

Dissolved Oxygen Qualifier: The reliability of the dissolved oxygen (DO) data after 96 hours post-deployment for non-EDS (Extended Deployment System) data sondes may be problematic due to fouling which forms on the DO probe membrane during some deployments (Wenner et al. 200*). Many reserves have upgraded to YSI 6600 EDS data sondes, which increase DO accuracy and longevity by reducing the environmental effects of fouling. The user is therefore advised to consult the metadata and to exercise caution when utilizing the DO data beyond the initial 96-hour time period. However, this potential drift is not always problematic for some uses of the data, i.e. periodicity analysis. It should be noted that the amount of fouling is site specific and that not all data are affected. The Research Coordinator at the specific NERR site should be contacted concerning the reliability of the DO data because of the site and seasonal variation in the fouling of the DO sensor. All data sondes used at SAP NERR sites in 2006 were EDS models.

Depth Qualifier: The NERR System-Wide Monitoring Program utilizes YSI data sondes that can be equipped with either depth or water level sensors. Both sensors measure

water depth, but by convention, level sensors refer to atmospherically vented measurements and depth refers to non-vented measurements. Readings for both vented and non-vented sensors are automatically compensated for water density change due to variations in temperature and salinity; but for all non-vented depth measurements, changes in atmospheric pressure between calibrations appear as changes in water depth. The error is equal to approximately 1.03 cm for every 1 millibar change in atmospheric pressure, and is eliminated for level sensors because they are vented to the atmosphere throughout the deployment time interval.

Beginning in 2006, NERR SWMP standard calibration protocol calls for all non-vented depth sensors to read 0 meters at a (local) barometric pressure of 1013.25 mb (760 mm/hg). To achieve this, each site calibrates their depth sensor with a depth offset number, which is calculated using the actual atmospheric pressure at the time of calibration and the equation provided in the SWMP calibration sheet or Digital Calibration Log. This offset procedure standardizes each depth calibration for the entire NERR System. If accurate atmospheric pressure data are available, non-vented sensor depth measurements at any NERR site can be corrected. The Research Coordinator at the specific NERR site should be contacted in order to obtain information regarding atmospheric pressure data availability. All data sondes used at the SAP NERR sites in 2006 were non-vented models.

10) Coded variable definitions

<u>Sampling Station</u>	<u>Sampling Site Code</u>	<u>Station Code</u>
Lower Duplin	LD	sapldwq
Hunt Dock	HD	saphdwq
Dean Creek	DC	sapdcwq
Cabretta Creek	CA	sapcawq

11) Anomalous/Suspect

Cabretta Creek

1/18/2006 15:30 – 2/1/2006 09:30: Depth data are suspect – it appears that there was a blockage in the deployment tube preventing the sonde from moving normally through the tidal cycle. The sonde was sampling at a deeper position in the water column than is normal at this site. The depth sensor seemed to be functioning normally.

7/11/2006 12:00 - 7/26/2006 15:00: Turbidity data are suspect as fouling becomes apparent late in the deployment.

7/26/2006 15:30 – 8/22/2006 15:00: Turbidity data are suspect as fouling becomes apparent mid-way through the deployment.

Lower Duplin

3/29/2006 13:00 – 4/10/2006 14:00: DO data are suspect, post cal was 73% and readings appear depressed throughout the deployment.

4/10/2006 14:30 – 4/27/2006 13:00: DO data are suspect, post cal was 135% and readings appear erratic throughout the deployment.

5/26/2006 09:30 – 6/14/2006 12:00: DO data are suspect, especially for the latter portion of this deployment due to fouling.

11/21/2006 13:30 – 12/5/2006 12:15: All data are suspect, possible temperature probe malfunction. Temperature readings were depressed throughout the deployment and there were fairly large discrepancies with the surrounding deployments, cause unknown.

12/20/2006 13:00 – 12/31/2006 23:30: pH data are suspect. Post cal values are high and readings for the entire deployment seemed elevated.

Negative turbidity

Small negative turbidity values can be caused by slight calibration errors and/or sensor fouling due to marine growth. Negative values between 0 and -2 are considered suspect but within acceptable sensor or calibration error. For the purposes of this data set, negative turbidity values from 0 to -4 are considered suspect but representative of zero or near zero turbidity conditions. Negative values larger than 4 are listed below and should be used with caution.

Cabretta

DATE	TIME	NTU			
03/07/2006	06:30:00	-0005	04/02/2006	04:30:00	-0008
03/07/2006	07:30:00	-0005	04/02/2006	05:00:00	-0007
03/07/2006	19:00:00	-0005	04/02/2006	05:30:00	-0008
03/07/2006	19:30:00	-0005	04/02/2006	06:00:00	-0006
03/07/2006	20:00:00	-0005	04/02/2006	06:30:00	-0009
03/07/2006	21:00:00	-0005	04/02/2006	07:00:00	-0005
03/07/2006	21:30:00	-0005	04/02/2006	15:00:00	-0005
03/08/2006	09:00:00	-0005	04/02/2006	15:30:00	-0006
03/08/2006	10:00:00	-0005	04/02/2006	16:00:00	-0006
03/08/2006	18:30:00	-0005	04/02/2006	16:30:00	-0005
03/08/2006	19:30:00	-0005	04/02/2006	17:00:00	-0006
03/08/2006	20:00:00	-0005	04/02/2006	17:30:00	-0005
03/08/2006	20:30:00	-0005	04/02/2006	18:00:00	-0005
03/08/2006	21:00:00	-0005	04/02/2006	18:30:00	-0007
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11/18/2006	07:45:00	-0005	11/20/2006	00:15:00	-0005
11/18/2006	11:30:00	-0005	11/20/2006	00:30:00	-0006
11/18/2006	11:45:00	-0007	11/20/2006	01:15:00	-0008
11/18/2006	12:15:00	-0005	11/20/2006	01:30:00	-0009
11/18/2006	12:45:00	-0007	11/20/2006	02:00:00	-0009
11/18/2006	13:00:00	-0009	11/20/2006	02:15:00	-0010
11/18/2006	13:15:00	-0009	11/20/2006	02:30:00	-0005
11/18/2006	13:30:00	-0009	11/20/2006	02:45:00	-0009
11/18/2006	13:45:00	-0008	11/20/2006	03:00:00	-0005
11/18/2006	14:00:00	-0010	11/20/2006	03:15:00	-0005
11/18/2006	14:15:00	-0011	11/20/2006	04:00:00	-0005
11/18/2006	14:30:00	-0007	11/20/2006	14:45:00	-0009
11/18/2006	14:45:00	-0006	11/20/2006	15:00:00	-0010
11/18/2006	15:00:00	-0006	11/20/2006	15:15:00	-0010
11/18/2006	15:15:00	-0006	11/20/2006	15:30:00	-0007
11/18/2006	15:45:00	-0006	11/20/2006	15:45:00	-0007
11/18/2006	20:00:00	-0006	11/20/2006	16:00:00	-0008
11/18/2006	23:00:00	-0005	11/20/2006	16:15:00	-0006
11/18/2006	23:15:00	-0007	11/20/2006	17:00:00	-0006
11/18/2006	23:30:00	-0007	11/20/2006	21:15:00	-0005
11/18/2006	23:45:00	-0008	11/20/2006	21:30:00	-0009
11/19/2006	00:00:00	-0006	11/20/2006	21:45:00	-0006
11/19/2006	00:30:00	-0006	11/20/2006	22:00:00	-0007
11/19/2006	00:45:00	-0009	11/21/2006	01:45:00	-0006
11/19/2006	01:00:00	-0011	11/21/2006	03:15:00	-0008
11/19/2006	01:15:00	-0011	11/21/2006	03:30:00	-0008
11/19/2006	01:30:00	-0011	11/21/2006	03:45:00	-0008
11/19/2006	01:45:00	-0010	11/21/2006	04:00:00	-0008
11/19/2006	02:00:00	-0011	11/21/2006	04:15:00	-0006
11/19/2006	02:15:00	-0010	11/21/2006	05:45:00	-0005
11/19/2006	02:30:00	-0010	11/22/2006	04:45:00	-0005
11/19/2006	02:45:00	-0008	11/23/2006	04:30:00	-0005
11/19/2006	03:00:00	-0008	11/25/2006	06:30:00	-0005
11/19/2006	03:15:00	-0006	11/25/2006	07:00:00	-0005
11/19/2006	08:30:00	-0006	11/26/2006	06:45:00	-0005
11/19/2006	13:15:00	-0005	11/26/2006	07:15:00	-0006
11/19/2006	13:30:00	-0005	11/26/2006	07:30:00	-0005
11/19/2006	13:45:00	-0008	11/28/2006	08:30:00	-0005
11/19/2006	14:00:00	-0010	11/28/2006	21:30:00	-0005
11/19/2006	14:15:00	-0009			

Turbidity spikes

The following turbidity spikes represent unusually high readings, which can be caused by a number of factors including, but not limited to marine growth on the sensor, passing organisms, extreme tides, high winds, and heavy rainfall runoff.

Cabretta

DATE	TIME	NTU
07/24/2006	04:30	1871
07/24/2006	08:00	1815
07/24/2006	13:30	1796
07/24/2006	16:30	1815
07/24/2006	20:30	1096
07/24/2006	21:00	1538
07/25/2006	00:30	1821
07/25/2006	01:00	1849
07/25/2006	02:00	1176
07/25/2006	03:30	1811
07/25/2006	06:00	1638
07/25/2006	07:30	1675
07/25/2006	10:00	1813
07/25/2006	11:30	1792
07/25/2006	15:00	1775
07/25/2006	19:00	1635
07/25/2006	20:00	1486
07/25/2006	21:30	1732
07/25/2006	22:30	1421
07/26/2006	00:30	1908
07/26/2006	02:30	1592
07/26/2006	04:00	1543
07/26/2006	04:30	1699
07/26/2006	10:00	1456
07/26/2006	12:00	1628
07/26/2006	12:30	1630
07/26/2006	14:00	1453
08/03/2006	02:00	1190
08/03/2006	02:30	1205
08/10/2006	11:00	1962
08/10/2006	14:30	1691
08/10/2006	18:30	1557
08/11/2006	02:30	1572
08/11/2006	03:30	1518
08/12/2006	16:30	1217
08/12/2006	17:30	1320
08/13/2006	06:00	1267
08/13/2006	07:00	1348
08/13/2006	10:00	1149
08/16/2006	04:00	1517
08/16/2006	19:00	1068

08/17/2006	19:30	1011
08/17/2006	23:30	1074
08/18/2006	00:30	1051
08/18/2006	04:00	1045
08/18/2006	07:00	1807
08/18/2006	11:30	1411
08/18/2006	20:00	1050
08/18/2006	21:30	1062
08/19/2006	05:30	2154
08/19/2006	07:30	1730
08/19/2006	08:30	1057
08/19/2006	10:30	1359
08/19/2006	17:00	1309
08/19/2006	18:00	1012
08/19/2006	20:00	1429
08/19/2006	21:00	1237
08/20/2006	03:30	1050
08/20/2006	06:00	1092
08/20/2006	09:00	1098
08/20/2006	15:00	1110
08/21/2006	04:00	1054
08/21/2006	07:30	1053
08/21/2006	11:00	1111
08/21/2006	13:30	1094
08/21/2006	22:00	1394
08/22/2006	02:30	1212
08/22/2006	04:00	1071
08/22/2006	06:00	1196
08/22/2006	09:30	1341
08/22/2006	13:00	1187
10/12/2006	09:00	1411
10/12/2006	10:00	2909
10/14/2006	06:30	2766
10/16/2006	22:30	2017
11/03/2006	06:00	1713
12/04/2006	22:30	1318

Dean Creek

DATE	TIME	NTU
02/18/2006	13:00	1627
02/25/2006	00:00	1321
04/27/2006	13:30	1773
05/04/2006	11:30	1604
06/26/2006	11:00	1076
07/01/2006	20:00	1003
07/04/2006	09:30	1465
07/07/2006	11:30	2082
07/22/2006	11:30	1003
07/22/2006	16:00	3076

07/24/2006	03:30	2160
08/13/2006	10:30	1828
08/14/2006	19:30	1079
08/31/2006	04:00	2173
09/01/2006	22:30	1094
09/20/2006	14:00	1829
10/13/2006	01:30	2220
10/13/2006	17:00	2210
10/13/2006	18:00	2213
10/15/2006	07:00	1829
10/15/2006	07:30	1687
10/19/2006	08:30	2183
10/20/2006	10:30	2206
10/21/2006	01:00	2221
10/23/2006	04:30	1501
10/23/2006	09:30	1295
10/23/2006	23:00	1348
10/23/2006	23:30	1977
10/26/2006	20:30	2156
11/14/2006	13:00	1380
11/16/2006	01:30	1044
12/18/2006	15:30	1446

Hunt dock

DATE	TIME	NTU
01/18/2006	13:00	1333
01/24/2006	16:00	1070
02/22/2006	08:00	1811
03/12/2006	18:00	2282
03/28/2006	04:00	1929
04/23/2006	09:30	1206
05/14/2006	06:00	1483
05/22/2006	20:00	1529
05/24/2006	09:00	1526
05/24/2006	10:00	1529
05/24/2006	21:00	1532
05/25/2006	00:00	1532
05/25/2006	02:00	1449
05/25/2006	03:30	1531
05/25/2006	07:00	1528
05/25/2006	07:30	1045
05/25/2006	12:30	1555
05/26/2006	08:00	1529
05/26/2006	10:30	1534
06/18/2006	22:00	1621
06/28/2006	08:00	1796
06/28/2006	09:00	2076
06/28/2006	11:00	2025
06/28/2006	12:30	1566
06/28/2006	14:30	1978

06/28/2006	16:30	2065
06/28/2006	17:00	1746
06/28/2006	18:30	1694
06/28/2006	19:00	1940
06/29/2006	04:00	1203
07/26/2006	03:00	1188
07/26/2006	06:00	1192
07/26/2006	07:30	1197
07/26/2006	09:00	1196
08/05/2006	15:00	1633
08/16/2006	05:00	1101
08/18/2006	07:30	2013
08/26/2006	23:00	2305
08/28/2006	12:30	2308
08/28/2006	18:30	1352
08/29/2006	18:30	2348
08/30/2006	17:00	2325
08/31/2006	10:00	1308
09/01/2006	14:30	2291
09/01/2006	15:30	2274
09/02/2006	14:30	1563
09/02/2006	15:30	2304
09/03/2006	07:30	1060
09/03/2006	14:00	2306
09/03/2006	22:00	2306
09/04/2006	17:00	2314
09/21/2006	18:30	2377
09/23/2006	18:30	2411
09/23/2006	19:00	1533
09/24/2006	10:30	1694
09/24/2006	12:00	2394
09/25/2006	11:00	1793
09/27/2006	02:00	2407
09/28/2006	09:00	1671
09/28/2006	14:00	2397
09/29/2006	17:30	1497
10/01/2006	23:30	2392
10/02/2006	06:30	2387
10/04/2006	14:30	2368
10/06/2006	07:00	2051
10/06/2006	11:30	1459
10/07/2006	20:30	2345
10/09/2006	01:30	1221
10/09/2006	10:30	1201
10/10/2006	08:30	2278
11/03/2006	23:00	1081
12/13/2006	03:30	1486
12/18/2006	08:00	1404

Lower Duplin

DATE	TIME	NTU
04/10/2006	20:31	1166
04/22/2006	07:31	1220
04/22/2006	22:31	1151
04/24/2006	04:01	1175
05/01/2006	15:30	1222
06/01/2006	15:00	1842
06/05/2006	17:30	2010
06/27/2006	19:30	1240
07/08/2006	08:30	1960
07/27/2006	00:30	1895
09/04/2006	17:30	1007
09/05/2006	04:30	1369
09/05/2006	16:00	1463
09/06/2006	05:30	1858
09/06/2006	09:00	1090
09/06/2006	13:15	1054
09/06/2006	13:45	1054
09/06/2006	14:15	1055
09/06/2006	15:00	1057
09/06/2006	15:30	1057
09/06/2006	16:00	1055
09/06/2006	16:30	1056
09/06/2006	17:00	1056
09/06/2006	17:30	1057
09/06/2006	18:00	1059
09/06/2006	18:30	1060
09/06/2006	19:00	1060
09/06/2006	19:30	1059
09/06/2006	20:00	1058
09/06/2006	20:30	1058
09/06/2006	21:00	1057
09/06/2006	21:45	1058
09/06/2006	22:00	1008
09/06/2006	22:15	1058
09/06/2006	22:30	1056
09/06/2006	22:45	1055
09/06/2006	23:15	1053
09/06/2006	23:45	1030
09/07/2006	00:00	1052
09/07/2006	00:15	1051
09/07/2006	00:30	1051
09/07/2006	00:45	1051
09/07/2006	01:00	1051
09/07/2006	01:30	1051
09/07/2006	01:45	1051
09/07/2006	02:15	1051
09/07/2006	02:45	1051
09/07/2006	03:15	1051
09/07/2006	04:00	1051
09/07/2006	04:30	1049

09/07/2006	05:00	1050
09/07/2006	05:45	1052
09/07/2006	06:15	1053
09/07/2006	06:45	1052
09/07/2006	07:15	1052
09/07/2006	08:00	1040
09/07/2006	08:15	1052
09/07/2006	08:45	1052
09/07/2006	09:15	1052
09/07/2006	10:00	1052
09/07/2006	10:15	1051
09/07/2006	10:30	1051
09/07/2006	11:00	1051
09/07/2006	11:30	1051
09/07/2006	12:00	1052
09/07/2006	12:15	1052
09/07/2006	12:30	1052
09/07/2006	13:00	1051
09/07/2006	13:30	1051
09/07/2006	14:15	1050
09/07/2006	15:00	1050
09/07/2006	15:45	1050
09/07/2006	16:15	1051
09/07/2006	16:30	1050
09/07/2006	16:45	1050
09/07/2006	17:15	1050
09/07/2006	17:45	1050
09/07/2006	18:45	1051
09/07/2006	19:00	1051
09/07/2006	19:15	1051
09/07/2006	19:30	1050
09/07/2006	19:45	1050
09/07/2006	20:00	1050
09/07/2006	20:30	1049
09/07/2006	21:30	1049
09/07/2006	22:15	1049
09/07/2006	23:00	1047
09/07/2006	23:15	1047
09/07/2006	23:30	1047
09/07/2006	23:45	1046
09/08/2006	00:00	1045
09/08/2006	00:15	1044
09/08/2006	00:30	1044
09/08/2006	00:45	1043
09/08/2006	01:15	1043
09/08/2006	01:45	1042
09/08/2006	02:00	1042
09/08/2006	02:15	1042
09/08/2006	02:30	1032
09/08/2006	02:45	1042
09/08/2006	03:15	1042

09/08/2006	03:30	1035
09/08/2006	03:45	1042
09/08/2006	04:00	1042
09/08/2006	04:15	1042
09/08/2006	04:45	1042
09/08/2006	05:00	1042
09/08/2006	05:15	1039
09/08/2006	05:30	1042
09/08/2006	06:15	1043
09/08/2006	06:45	1044
09/08/2006	08:15	1043
09/08/2006	08:30	1043
09/08/2006	08:45	1042
09/08/2006	09:15	1042
09/08/2006	09:45	1042
09/08/2006	10:15	1043
09/08/2006	10:30	1043
09/08/2006	10:45	1043
09/08/2006	11:15	1043
09/08/2006	11:30	1012
09/08/2006	11:45	1044
09/08/2006	12:15	1045
09/08/2006	13:00	1047
09/08/2006	13:15	1046
09/08/2006	13:30	1047
09/08/2006	13:45	1043
09/08/2006	14:00	1047
09/08/2006	14:30	1047
09/08/2006	17:00	1049
09/08/2006	18:00	1047
09/08/2006	18:30	1046
09/08/2006	18:45	1046
09/08/2006	20:00	1047
09/08/2006	21:15	1047
09/08/2006	21:45	1046
09/08/2006	22:15	1046
09/08/2006	22:45	1046
09/09/2006	00:15	1044
09/09/2006	00:30	1044
09/09/2006	00:45	1044
09/09/2006	01:00	1044
09/09/2006	01:15	1043
09/09/2006	01:45	1043
09/09/2006	02:15	1043
09/09/2006	02:30	1042
09/09/2006	03:00	1042
09/09/2006	04:30	1042
09/09/2006	05:45	1041
09/09/2006	06:15	1041
09/09/2006	07:45	1043
09/09/2006	09:00	1042

09/09/2006	09:45	1041
09/09/2006	11:45	1042
09/09/2006	12:15	1043
09/09/2006	12:30	1044
09/09/2006	13:45	1047
09/09/2006	14:00	1048
09/09/2006	14:15	1049
09/09/2006	15:15	1050
09/09/2006	15:45	1045
09/09/2006	16:00	1051
09/09/2006	19:15	1050
09/09/2006	19:45	1047
09/09/2006	20:15	1047
09/10/2006	00:15	1045
09/10/2006	01:15	1044
09/10/2006	01:45	1044
09/10/2006	03:00	1043
09/10/2006	04:15	1034
09/10/2006	05:15	1043
09/10/2006	07:00	1042
09/10/2006	08:30	1043
09/10/2006	14:45	1047
09/11/2006	01:15	1042
09/11/2006	01:45	1041
09/11/2006	03:15	1042
09/11/2006	07:00	1041
09/11/2006	10:30	1039
09/11/2006	13:30	1039
09/12/2006	15:00	1036
09/13/2006	09:00	1037
09/13/2006	10:45	1035
09/18/2006	08:45	1037
09/22/2006	21:30	1038
09/22/2006	22:15	1038
09/23/2006	02:15	1034
09/23/2006	03:30	1034
09/23/2006	03:45	1034
09/23/2006	13:30	1037
09/23/2006	14:15	1037
09/23/2006	14:30	1037
09/23/2006	14:45	1037
09/23/2006	15:30	1036
09/23/2006	15:45	1036
09/23/2006	16:00	1036
09/23/2006	17:00	1038
09/24/2006	01:45	1038
09/24/2006	02:00	1038
09/24/2006	02:45	1038
09/24/2006	03:00	1038
09/24/2006	10:30	1037
09/24/2006	10:45	1037

09/24/2006	11:00	1037
09/24/2006	13:15	1039
09/24/2006	13:30	1039
09/24/2006	14:45	1041
09/24/2006	16:30	1041
09/24/2006	17:00	1011
09/24/2006	17:15	1041
09/24/2006	17:30	1042
09/24/2006	21:30	1041
09/24/2006	22:00	1041
09/24/2006	23:00	1041
09/25/2006	00:00	1040
09/25/2006	00:15	1040
09/25/2006	01:15	1040
09/25/2006	01:30	1040
09/25/2006	02:30	1040
09/25/2006	02:45	1040
09/25/2006	03:45	1040
09/25/2006	04:00	1040
09/25/2006	04:15	1006
09/25/2006	05:00	1040
09/25/2006	05:15	1040
09/25/2006	06:15	1039
09/25/2006	06:30	1039
09/25/2006	07:30	1038
09/25/2006	08:00	1039
09/25/2006	08:15	1039
09/25/2006	10:00	1039
09/25/2006	10:15	1038
09/25/2006	10:30	1039
11/30/2006	00:30	1947

Negative depth:

The hunt dock and dean creek sites are fairly shallow sites, this combined with the fact that on the YSI 6600 sondes the depth sensor is located several inches above the other sensors so it is possible to get a negative depth reading due to low water exposure without the other sensors being affected. Other causes of a negative depth reading include calibration errors, sensor drift, and changes in atmospheric pressure from the time of calibration.

Dean creek

DATE	TIME	m
03/10/2006	01:00	-0.01
03/14/2006	04:30	-0.01
03/21/2006	18:30	-0.01
03/21/2006	19:00	-0.02
03/21/2006	19:30	-0.03
03/21/2006	20:00	-0.03

03/21/2006	20:30	-0.03
04/08/2006	00:30	-0.01
04/08/2006	11:30	-0.01
04/08/2006	12:00	-0.02
04/08/2006	12:30	-0.03
04/08/2006	13:00	-0.04
04/08/2006	13:30	-0.04
04/16/2006	18:00	-0.01
04/16/2006	18:30	-0.01
04/17/2006	16:00	-0.02
04/17/2006	16:30	-0.03
04/17/2006	17:00	-0.04
04/17/2006	17:30	-0.05
04/17/2006	18:00	-0.05
04/17/2006	18:30	-0.06
04/17/2006	19:00	-0.06
04/17/2006	19:30	-0.03
07/22/2006	14:00	-0.01
07/22/2006	14:30	-0.03
07/22/2006	15:00	-0.03
07/22/2006	15:30	-0.04
07/23/2006	15:30	-0.01
07/23/2006	16:00	-0.02
07/24/2006	15:30	-0.01
07/24/2006	16:00	-0.02
07/24/2006	16:30	-0.02
07/24/2006	17:00	-0.02
07/25/2006	17:00	-0.01
07/25/2006	17:30	-0.02
07/25/2006	18:00	-0.02
10/11/2006	07:00	-0.03
10/11/2006	07:30	-0.03
10/11/2006	08:30	-0.02
10/11/2006	21:00	-0.03
10/12/2006	05:30	-0.07
10/12/2006	06:00	-0.06
10/12/2006	10:00	-0.04
10/12/2006	19:30	-0.05
10/12/2006	20:00	-0.05
10/12/2006	22:30	-0.04
10/13/2006	05:30	-0.04
10/13/2006	06:00	-0.03
10/13/2006	10:30	-0.01
10/13/2006	20:30	-0.02
10/13/2006	21:00	-0.01
11/09/2006	04:30	-0.01
11/09/2006	05:00	-0.02
11/09/2006	05:30	-0.02
11/09/2006	06:00	-0.02
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Hunt Dock

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12/31/2006	23:30	-0.06

Dissolved oxygen

The following dissolved oxygen values were negative, while these would normally be deleted the data was cycling normally with the tides and the high-end readings looked fine and the post calcs were also within range. Therefore the values were considered to be near zero and the cause was left to slight calibration error and sensor drift.

DO_pct

Cabretta

DATE	TIME	%
08/08/2006	15:00:00	-000.3
08/08/2006	15:30:00	-000.6
08/08/2006	16:00:00	-000.7
08/09/2006	02:00:00	-000.7
08/09/2006	02:30:00	-001.3
08/09/2006	03:00:00	-001.5
08/09/2006	03:30:00	-001.7
08/09/2006	04:00:00	-001.6
08/09/2006	04:30:00	-001.6
08/09/2006	05:00:00	-001.8
08/09/2006	13:30:00	-001.4
08/09/2006	14:00:00	-001.5
08/09/2006	15:30:00	-001.5
08/09/2006	16:00:00	-001.9
08/09/2006	16:30:00	-002.1
08/10/2006	04:30:00	-001.2
08/10/2006	05:00:00	-001.4
08/10/2006	05:30:00	-001.7
08/23/2006	03:00	-003.6
08/23/2006	03:30	-005.4
08/23/2006	04:00	-005.6
08/23/2006	15:00	-004.0
08/23/2006	15:30	-005.3
08/23/2006	16:00	-005.9
08/24/2006	16:00	-001.0
08/26/2006	16:30	-000.8
08/26/2006	17:00	-004.0
08/27/2006	05:00	-002.4
08/27/2006	05:30	-002.9
08/27/2006	17:30	-002.7
08/27/2006	18:00	-002.8
08/28/2006	05:00	-001.2
08/28/2006	05:30	-002.0
08/28/2006	06:00	-002.6
08/29/2006	05:30	-002.4
08/29/2006	06:00	-003.8
08/29/2006	06:30	-004.5
08/29/2006	07:00	-004.1
08/30/2006	06:30	-002.2
08/30/2006	07:00	-002.7
08/30/2006	07:30	-001.7

09/01/2006	19:00	-000.1
09/01/2006	19:30	-001.2
09/01/2006	20:00	-003.2
09/01/2006	20:30	-004.0
09/01/2006	21:00	-003.4
09/01/2006	21:30	-003.4
09/02/2006	22:00	-002.3
09/02/2006	22:30	-003.1
09/02/2006	23:00	-004.0
09/03/2006	09:00	-002.3
09/03/2006	09:30	-003.2
09/03/2006	10:00	-004.5
09/03/2006	10:30	-005.0
09/03/2006	11:00	-005.3
09/03/2006	11:30	-004.9
09/03/2006	23:30	-007.7
09/04/2006	00:00	-009.4
09/04/2006	00:30	-007.9
09/04/2006	10:00	-001.8
09/04/2006	10:30	-009.1
09/04/2006	11:00	-009.4
09/04/2006	11:30	-011.2
09/04/2006	12:00	-011.9
09/04/2006	12:30	-012.4
09/05/2006	00:00	-006.1
09/05/2006	00:30	-008.4
09/05/2006	01:00	-009.0
09/05/2006	01:30	-009.3
09/05/2006	10:30	-001.8
09/05/2006	11:00	-007.7
09/05/2006	11:30	-009.0
09/05/2006	12:00	-009.4
09/05/2006	12:30	-009.9
09/05/2006	13:00	-010.2
09/05/2006	13:30	-010.6
09/05/2006	14:00	-010.7
09/06/2006	01:00	-005.5
09/06/2006	01:30	-006.5
09/06/2006	02:00	-007.9
09/06/2006	02:30	-008.5
09/06/2006	03:00	-008.7
09/06/2006	12:30	-002.2
09/06/2006	13:00	-007.2

Dean creek

DATE	TIME	%
08/27/2006	18:30	-009.2

Hunt dock

DATE	TIME	%
------	------	---

09/21/2006	12:00	-050.0
09/21/2006	12:30	-034.4
09/21/2006	13:00	-006.6
09/21/2006	16:30	-006.1
09/21/2006	17:00	-007.6
09/21/2006	17:30	-002.4
09/21/2006	18:00	-002.6
09/21/2006	18:30	-006.2
09/21/2006	19:00	-000.7
09/21/2006	19:30	-007.1
09/21/2006	20:00	-000.9
09/21/2006	20:30	-001.1
09/21/2006	21:00	-000.4
09/21/2006	23:00	-000.9
09/21/2006	23:30	-000.4
09/22/2006	00:00	-002.7
09/22/2006	00:30	-000.1
09/22/2006	01:30	-001.1
09/22/2006	02:30	-000.1
09/22/2006	04:00	-022.4
09/22/2006	04:30	-002.4
09/22/2006	06:00	-000.5
09/22/2006	07:00	-003.0
09/22/2006	07:30	-001.8
09/22/2006	08:00	-002.9
09/22/2006	08:30	-003.2
09/22/2006	09:00	-000.5
09/22/2006	09:30	-003.6
09/22/2006	10:00	-002.8
09/22/2006	10:30	-000.9
09/22/2006	11:00	-001.5
09/22/2006	11:30	-004.5
09/22/2006	12:30	-001.8
09/22/2006	13:30	-001.3
09/22/2006	14:00	-001.3
09/22/2006	14:30	-002.1
09/22/2006	17:00	-003.8
09/22/2006	17:30	-001.6
09/22/2006	18:30	-003.5
09/22/2006	19:00	-001.8
09/22/2006	19:30	-001.5
09/22/2006	20:00	-002.9
09/22/2006	20:30	-002.5
09/22/2006	21:00	-001.4
09/22/2006	21:30	-001.0
09/22/2006	22:00	-003.7
09/22/2006	22:30	-002.0
09/22/2006	23:00	-001.4
09/22/2006	23:30	-002.4
09/23/2006	00:00	-007.1
09/23/2006	00:30	-002.0

09/23/2006	01:00	-002.4
09/23/2006	01:30	-003.1
09/23/2006	02:00	-010.0
09/23/2006	02:30	-001.1
09/23/2006	03:00	-001.8
09/23/2006	05:00	-050.0
09/23/2006	05:30	-006.8
09/23/2006	06:00	-001.5
09/23/2006	07:00	-000.1
09/23/2006	07:30	-006.2
09/23/2006	08:00	-002.0
09/23/2006	09:00	-003.2
09/23/2006	09:30	-001.2
09/23/2006	10:30	-003.5
09/23/2006	11:00	-004.0
09/23/2006	11:30	-011.2
09/23/2006	12:00	-000.8
09/23/2006	12:30	-003.6
09/23/2006	13:00	-009.8
09/23/2006	13:30	-005.7
09/23/2006	17:30	-044.3
09/23/2006	18:00	-005.9
09/23/2006	18:30	-003.7
09/23/2006	19:30	-001.6
09/23/2006	20:00	-001.0
09/23/2006	20:30	-002.0
09/23/2006	21:00	-001.5
09/23/2006	21:30	-005.0
09/23/2006	22:00	-001.4
09/23/2006	22:30	-003.1
09/23/2006	23:00	-004.8
09/23/2006	23:30	-003.4
09/24/2006	00:00	-004.1
09/24/2006	00:30	-003.5
09/24/2006	01:00	-004.6
09/24/2006	01:30	-006.3
09/24/2006	02:00	-006.6
09/24/2006	02:30	-008.3
09/24/2006	06:00	-042.1
09/24/2006	06:30	-016.8
09/24/2006	07:00	-008.1
09/24/2006	07:30	-006.8
09/24/2006	08:00	-002.6
09/24/2006	08:30	-002.4
09/24/2006	09:00	-003.9
09/24/2006	09:30	-006.6
09/24/2006	10:00	-006.8
09/24/2006	11:00	-004.4
09/24/2006	11:30	-004.9
09/24/2006	12:00	-006.5
09/24/2006	12:30	-003.7

09/24/2006	13:00	-005.5
09/24/2006	13:30	-003.6
09/24/2006	14:00	-002.5
09/24/2006	14:30	-002.7
09/24/2006	15:00	-003.9
09/24/2006	18:00	-030.3
09/24/2006	18:30	-015.9
09/24/2006	19:00	-007.3
09/24/2006	19:30	-004.1
09/24/2006	20:00	-003.6
09/24/2006	20:30	-002.5
09/24/2006	21:00	-004.9
09/24/2006	21:30	-006.2
09/24/2006	22:00	-006.5
09/24/2006	22:30	-008.3
09/24/2006	23:00	-004.4
09/24/2006	23:30	-005.1
09/25/2006	00:00	-005.5
09/25/2006	00:30	-005.7
09/25/2006	01:00	-008.0
09/25/2006	01:30	-006.8
09/25/2006	02:00	-006.2
09/25/2006	02:30	-006.5
09/25/2006	03:00	-005.9
09/25/2006	06:30	-020.8
09/25/2006	07:00	-019.0
09/25/2006	07:30	-006.7
09/25/2006	08:00	-004.8
09/25/2006	08:30	-000.9
09/25/2006	09:00	-002.3
09/25/2006	09:30	-003.1
09/25/2006	10:00	-005.3
09/25/2006	10:30	-003.1
09/25/2006	11:00	-000.5
09/25/2006	11:30	-007.1
09/25/2006	12:00	-002.6
09/25/2006	12:30	-001.1
09/25/2006	13:00	-007.3
09/25/2006	13:30	-010.2
09/25/2006	14:00	-007.6
09/25/2006	14:30	-009.4
09/25/2006	15:00	-007.2
09/25/2006	15:30	-003.7
09/25/2006	18:30	-013.2
09/25/2006	19:00	-016.0
09/25/2006	19:30	-007.4
09/25/2006	20:00	-006.3
09/25/2006	20:30	-004.4
09/25/2006	21:30	-003.3
09/25/2006	22:00	-002.8
09/25/2006	22:30	-003.9

09/25/2006	23:00	-005.8
09/25/2006	23:30	-002.7
09/26/2006	00:00	-008.6
09/26/2006	00:30	-008.9
09/26/2006	01:00	-007.1
09/26/2006	01:30	-007.7
09/26/2006	02:00	-008.7
09/26/2006	02:30	-007.4
09/26/2006	03:00	-007.4
09/26/2006	03:30	-007.2
09/26/2006	06:30	-011.5
09/26/2006	07:00	-007.0
09/26/2006	12:30	-000.1
09/26/2006	14:30	-000.3

DO_mgl

Cabretta

DATE	TIME	mg/L
08/08/2006	16:00:00	-00.1
08/09/2006	02:30:00	-00.1
08/09/2006	03:00:00	-00.1
08/09/2006	03:30:00	-00.1
08/09/2006	04:00:00	-00.1
08/09/2006	04:30:00	-00.1
08/09/2006	05:00:00	-00.1
08/09/2006	13:30:00	-00.1
08/09/2006	14:00:00	-00.1
08/09/2006	15:30:00	-00.1
08/09/2006	16:00:00	-00.1
08/09/2006	16:30:00	-00.1
08/10/2006	04:30:00	-00.1
08/10/2006	05:00:00	-00.1
08/10/2006	05:30:00	-00.1
08/23/2006	03:00	-00.2
08/23/2006	03:30	-00.4
08/23/2006	04:00	-00.4
08/23/2006	15:00	-00.3
08/23/2006	15:30	-00.3
08/23/2006	16:00	-00.4
08/24/2006	16:00	-00.1
08/26/2006	16:30	-00.1
08/26/2006	17:00	-00.3
08/27/2006	05:00	-00.2
08/27/2006	05:30	-00.2
08/27/2006	17:30	-00.2
08/27/2006	18:00	-00.2
08/28/2006	05:00	-00.1
08/28/2006	05:30	-00.1

08/28/2006	06:00	-00.2
08/29/2006	05:30	-00.2
08/29/2006	06:00	-00.2
08/29/2006	06:30	-00.3
08/29/2006	07:00	-00.3
08/30/2006	06:30	-00.1
08/30/2006	07:00	-00.2
08/30/2006	07:30	-00.1
09/01/2006	19:30	-00.1
09/01/2006	20:00	-00.2
09/01/2006	20:30	-00.3
09/01/2006	21:00	-00.2
09/01/2006	21:30	-00.2
09/02/2006	22:00	-00.2
09/02/2006	22:30	-00.2
09/02/2006	23:00	-00.3
09/03/2006	09:00	-00.2
09/03/2006	09:30	-00.2
09/03/2006	10:00	-00.3
09/03/2006	10:30	-00.3
09/03/2006	11:00	-00.4
09/03/2006	11:30	-00.3
09/03/2006	23:30	-00.5
09/04/2006	00:00	-00.6
09/04/2006	00:30	-00.5
09/04/2006	10:00	-00.1
09/04/2006	10:30	-00.6
09/04/2006	11:00	-00.6
09/04/2006	11:30	-00.8
09/04/2006	12:00	-00.8
09/04/2006	12:30	-00.8
09/05/2006	00:00	-00.4
09/05/2006	00:30	-00.6
09/05/2006	01:00	-00.6
09/05/2006	01:30	-00.6
09/05/2006	10:30	-00.1
09/05/2006	11:00	-00.5
09/05/2006	11:30	-00.6
09/05/2006	12:00	-00.6
09/05/2006	12:30	-00.7
09/05/2006	13:00	-00.7
09/05/2006	13:30	-00.7
09/05/2006	14:00	-00.7
09/06/2006	01:00	-00.4
09/06/2006	01:30	-00.4
09/06/2006	02:00	-00.5
09/06/2006	02:30	-00.6
09/06/2006	03:00	-00.6
09/06/2006	12:30	-00.1
09/06/2006	13:00	-00.5

Dean creek

DATE	TIME	mg/L
08/27/2006	18:30	-00.5

Hunt dock

DATE	TIME	mg/L
09/21/2006	12:00	-03.5
09/21/2006	12:30	-02.4
09/21/2006	13:00	-00.5
09/21/2006	16:30	-00.4
09/21/2006	17:00	-00.5
09/21/2006	17:30	-00.2
09/21/2006	18:00	-00.2
09/21/2006	18:30	-00.4
09/21/2006	19:00	-00.1
09/21/2006	19:30	-00.5
09/21/2006	20:00	-00.1
09/21/2006	20:30	-00.1
09/21/2006	23:00	-00.1
09/22/2006	00:00	-00.2
09/22/2006	01:30	-00.1
09/22/2006	04:00	-01.6
09/22/2006	04:30	-00.2
09/22/2006	07:00	-00.2
09/22/2006	07:30	-00.1
09/22/2006	08:00	-00.2
09/22/2006	08:30	-00.2
09/22/2006	09:30	-00.3
09/22/2006	10:00	-00.2
09/22/2006	10:30	-00.1
09/22/2006	11:00	-00.1
09/22/2006	11:30	-00.3
09/22/2006	12:30	-00.1
09/22/2006	13:30	-00.1
09/22/2006	14:00	-00.1
09/22/2006	14:30	-00.1
09/22/2006	17:00	-00.3
09/22/2006	17:30	-00.1
09/22/2006	18:30	-00.2
09/22/2006	19:00	-00.1
09/22/2006	19:30	-00.1
09/22/2006	20:00	-00.2
09/22/2006	20:30	-00.2
09/22/2006	21:00	-00.1
09/22/2006	21:30	-00.1
09/22/2006	22:00	-00.3
09/22/2006	22:30	-00.1
09/22/2006	23:00	-00.1
09/22/2006	23:30	-00.2
09/23/2006	00:00	-00.5

09/23/2006	00:30	-00.1
09/23/2006	01:00	-00.2
09/23/2006	01:30	-00.2
09/23/2006	02:00	-00.7
09/23/2006	02:30	-00.1
09/23/2006	03:00	-00.1
09/23/2006	05:00	-03.4
09/23/2006	05:30	-00.5
09/23/2006	06:00	-00.1
09/23/2006	07:30	-00.4
09/23/2006	08:00	-00.1
09/23/2006	09:00	-00.2
09/23/2006	09:30	-00.1
09/23/2006	10:30	-00.2
09/23/2006	11:00	-00.3
09/23/2006	11:30	-00.8
09/23/2006	12:00	-00.1
09/23/2006	12:30	-00.2
09/23/2006	13:00	-00.7
09/23/2006	13:30	-00.4
09/23/2006	17:30	-02.9
09/23/2006	18:00	-00.4
09/23/2006	18:30	-00.3
09/23/2006	19:30	-00.1
09/23/2006	20:00	-00.1
09/23/2006	20:30	-00.1
09/23/2006	21:00	-00.1
09/23/2006	21:30	-00.3
09/23/2006	22:00	-00.1
09/23/2006	22:30	-00.2
09/23/2006	23:00	-00.3
09/23/2006	23:30	-00.2
09/24/2006	00:00	-00.3
09/24/2006	00:30	-00.2
09/24/2006	01:00	-00.3
09/24/2006	01:30	-00.4
09/24/2006	02:00	-00.5
09/24/2006	02:30	-00.6
09/24/2006	06:00	-02.8
09/24/2006	06:30	-01.1
09/24/2006	07:00	-00.5
09/24/2006	07:30	-00.5
09/24/2006	08:00	-00.2
09/24/2006	08:30	-00.2
09/24/2006	09:00	-00.3
09/24/2006	09:30	-00.5
09/24/2006	10:00	-00.5
09/24/2006	11:00	-00.3
09/24/2006	11:30	-00.3
09/24/2006	12:00	-00.4
09/24/2006	12:30	-00.3

09/24/2006	13:00	-00.4
09/24/2006	13:30	-00.2
09/24/2006	14:00	-00.2
09/24/2006	14:30	-00.2
09/24/2006	15:00	-00.3
09/24/2006	18:00	-02.0
09/24/2006	18:30	-01.0
09/24/2006	19:00	-00.5
09/24/2006	19:30	-00.3
09/24/2006	20:00	-00.2
09/24/2006	20:30	-00.2
09/24/2006	21:00	-00.3
09/24/2006	21:30	-00.4
09/24/2006	22:00	-00.4
09/24/2006	22:30	-00.6
09/24/2006	23:00	-00.3
09/24/2006	23:30	-00.3
09/25/2006	00:00	-00.4
09/25/2006	00:30	-00.4
09/25/2006	01:00	-00.5
09/25/2006	01:30	-00.5
09/25/2006	02:00	-00.4
09/25/2006	02:30	-00.4
09/25/2006	03:00	-00.4
09/25/2006	06:30	-01.4
09/25/2006	07:00	-01.3
09/25/2006	07:30	-00.5
09/25/2006	08:00	-00.3
09/25/2006	08:30	-00.1
09/25/2006	09:00	-00.2
09/25/2006	09:30	-00.2
09/25/2006	10:00	-00.4
09/25/2006	10:30	-00.2
09/25/2006	11:30	-00.5
09/25/2006	12:00	-00.2
09/25/2006	12:30	-00.1
09/25/2006	13:00	-00.5
09/25/2006	13:30	-00.7
09/25/2006	14:00	-00.5
09/25/2006	14:30	-00.6
09/25/2006	15:00	-00.5
09/25/2006	15:30	-00.2
09/25/2006	18:30	-00.9
09/25/2006	19:00	-01.0
09/25/2006	19:30	-00.5
09/25/2006	20:00	-00.4
09/25/2006	20:30	-00.3
09/25/2006	21:30	-00.2
09/25/2006	22:00	-00.2
09/25/2006	22:30	-00.3
09/25/2006	23:00	-00.4

09/25/2006	23:30	-00.2
09/26/2006	00:00	-00.6
09/26/2006	00:30	-00.6
09/26/2006	01:00	-00.5
09/26/2006	01:30	-00.5
09/26/2006	02:00	-00.6
09/26/2006	02:30	-00.5
09/26/2006	03:00	-00.5
09/26/2006	03:30	-00.5
09/26/2006	06:30	-00.8
09/26/2006	07:00	-00.5

12) Deleted Data

Cabretta creek:

Ph was deleted from 1/18 @ 1530 to 2/1 @ 0930 due to a probe failure
pH data were deleted for the 2/28 13:00 – 3/15 14:00 deployment. Post cal value were 7.98 (7) and 11.1 (10) and readings were markedly elevated.
pH data were deleted for the 4/10 11:00 – 4/26 13:30 deployment. Post cal value were 8.22 (7) and 10.9 (10) and readings were markedly elevated.
All data were deleted for 4/20 @ 15:30. The sonde appears to have been pulled from its deployment (tampering) and readings were taken out of the water.
pH data were deleted for the 5/10 13:30 – 5/25 22:30 deployment. Readings were extremely low.
Do deleted from 6/16 @ 1030 to 6/29 @11:30 due to very low values... possible cal error
Do deleted from 6/29 @ 11:30 to 7/11 @ 1130 due to data flat line followed by erratic readings, likely port contamination.
All data were deleted for 7/10 @ 13:30. The sonde appears to have been pulled from its deployment (tampering) and readings were taken out of the water.
Specific conductivity along with dependent salinity, DO mg/L and Depth parameters were deleted for the 11/7 11:00 to 12/21 13:00 deployment. Readings dropped significantly at the start of the deployment (large discrepancy with previous) and then climb to a large spike at the end (large discrepancy with following deployment).
Do deleted from 7/25 @2000 to 7/26 @ 1500 due to a membrane rupture.
pH data were deleted for the 9/21 11:30 – 10/10 11:30 deployment. Post cal values were 6.9 (7) and 10.9 (10) and readings were markedly elevated.
Do deleted from 11/27 @ 1000 to 12/6 @1030 due to very high readings, possible cal error.
Conductivity and salinity data removed from 12/6 @1100 to 12/21 @ 1000 due to a sudden jump in values probably due to port contamination.
Do deleted from 12/20 @ 1230 to 12/31 @2400 due to very low readings due to a compromised membrane.

Dean Creek:

pH data deleted from 1/1 @ 00:00 to 1/3 @ 11:30 due to probe malfunction, post cal was 11.2 (10).

Ph deleted from 2/14 @10:30 to 2/27 @14:30 due to a probe malfunction
pH data deleted from 3/20 @ 9:30 to 3/29 @ 12:30 due to probe malfunction, post cal and slope out of range

Ph deleted from 4/10 @14:30 to 5/3 @11:30 due to a probe malfunction

DO deleted from 4/27 @15:00 to 5/11 14:30. Post cal was 77.3% (100) and readings were depressed for the entire deployment with a marked discrepancy from the previous deployment.

All data deleted from 5/11 @15:00 to 5/26 @08:00. Possible port contamination caused temperature probe malfunction, which affects all data.

DO deleted from 8/9 @ 14:00 to 8/22 @ 14:00. Post cal was 125% (100) and readings were depressed for the entire deployment with a marked discrepancy from the surrounding deployments.

Deleted all from 10/6 @ 1730 to 10/10 @ 1100 due to temp flat line which affected all the data.

The following data (all parameters) were deleted as the sonde was out of the water at low tide:

10/11/2006 8:00

10/12/2006 6:30 – 9:30, 20:30 – 22:00

10/13/2006 6:30 – 10:00, 21:30 – 22:30

10/14/2006 7:30 – 11:00, 22:00 – 23:30

10/15/2006 9:00 – 11:30

10/15/2006 23:00 – 10/16/2006 00:30

Do from 10/26 @ 1230 – 11/7 @1130 was deleted because of high values, possible cal error

pH data deleted from 11/21 @ 14:00 to 12/5 @ 11:30 due to porbe malfunction, post cal was 8 (7) and 11.5 (10).

Hunt dock

The nature of this site causes the sonde to be periodically exposed during periods of low tide. All parameters for the following dates and times have been removed as a result of these occurrences.

DATE	TIME
1/1/2006	02:00
1/1/2006	02:30
1/1/2006	03:00
1/1/2006	03:30
1/1/2006	16:00
1/2/2006	03:30
1/2/2006	04:00
1/2/2006	16:30
1/2/2006	17:00
1/3/2006	04:00
1/3/2006	04:30
1/3/2006	05:00
1/3/2006	05:30
1/3/2006	17:00

1/3/2006	17:30
1/7/2006	21:30
1/8/2006	10:30
1/8/2006	21:30
1/8/2006	22:00
1/9/2006	10:00
1/9/2006	10:30
1/9/2006	21:30
1/9/2006	22:00
1/9/2006	22:30
1/9/2006	23:00
1/9/2006	23:30
1/10/2006	11:00
1/10/2006	23:00
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1/29/2006	02:00
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2/13/2006	03:00
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2/15/2006	04:30
2/27/2006	14:00
2/27/2006	14:30
2/28/2006	02:00
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3/1/2006	16:30
3/2/2006	04:00
3/2/2006	04:30
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3/2/2006	16:00
3/2/2006	16:30
3/2/2006	17:00
3/2/2006	17:30
3/3/2006	05:00
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4/25/2006	12:30
4/25/2006	13:00
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11/6/2006	03:30
11/6/2006	04:00
11/6/2006	04:30
11/6/2006	15:00
11/6/2006	15:30

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11/6/2006	16:30
11/6/2006	17:00
11/7/2006	03:00
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11/7/2006	04:30
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11/17/2006	23:30
11/18/2006	00:00
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11/18/2006	01:00
11/19/2006	00:30
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11/19/2006	01:30
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11/20/2006	01:30
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12/1/2006	13:00
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12/1/2006	23:00
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12/25/2006	19:30
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12/26/2006	06:30
12/26/2006	07:00
12/26/2006	07:30
12/26/2006	08:00
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12/26/2006	09:00
12/26/2006	09:30
12/26/2006	18:30
12/26/2006	19:00
12/26/2006	19:30
12/26/2006	20:00
12/26/2006	20:30
12/26/2006	21:00
12/26/2006	21:30
12/26/2006	22:00
12/27/2006	07:00
12/27/2006	07:30
12/27/2006	08:00
12/27/2006	08:30
12/27/2006	09:00
12/27/2006	09:30
12/27/2006	10:00
12/27/2006	19:30
12/27/2006	20:00
12/27/2006	20:30
12/27/2006	21:00
12/27/2006	21:30
12/27/2006	22:00
12/27/2006	22:30
12/28/2006	09:00
12/28/2006	09:30
12/28/2006	10:00
12/28/2006	10:30
12/28/2006	21:00
12/28/2006	21:30
12/28/2006	22:00
12/28/2006	22:30
12/28/2006	23:00
12/29/2006	10:30
12/29/2006	11:00
12/29/2006	11:30
12/29/2006	22:30
12/29/2006	23:00
12/29/2006	23:30
12/30/2006	00:00
12/30/2006	11:30
12/30/2006	12:00

12/30/2006	12:30
12/30/2006	23:00
12/30/2006	23:30
12/31/2006	00:00
12/31/2006	00:30
12/31/2006	01:00
12/31/2006	12:00
12/31/2006	12:30
12/31/2006	13:00
12/31/2006	13:30

Further HD data was removed under the following circumstances:

pH data were deleted from 1/4 @19:30 to 1/18 @13:30 due to probe malfunction.
 pH data point deleted at 4/15 16:00, out of water event
 All data from 4/26 @14:30 to 5/11 @ 08:00 was deleted due to erratic temperature readings throughout the deployment.
 All data from 5/26 @13:30 to 6/15 @ 14:00 were deleted due to temperature probe failure.
 Ph failure from 2/28 @13:00 to 3/16 @02:00
 And from 3/31 @09:30 to 4/10 @ 10:30, deleted all
 Deleted DO values from 4/10 @11:30 – 4/26 @12:00
 Low DO values from 5/11 @08:30 – 5/26 @13:00, deleted all
 Ph failure, deleted 5/11 @08:30 – 5/26 @13:00
 Lost wiper, deleted turbidity from 6/1 @15:30 – 6/15 @14:00
 DO data were deleted from 9/21 @12:00 to 10/10 @ 12:00 due to probe malfunction
 pH data were deleted from 10/25 @13:00 to 11/7 @11:00 due to probe malfunction, post cal was 7.78 (7) and readings were elevated.
 pH data were deleted from 11/21 @13:30 to 12/5 @12:30 due to probe malfunction, post cal was 8.36 (7) and readings were elevated.

Lower Duplin:

Deleted ph from 1/3 @ 16:30 to 1/17 @14:00 due to sensor malfunction
 Deleted ph from 3/20 @11:00 to 3/29 @ 12:30 due to sensor malfunction
 Deleted DO 5/12 10:30 – 5/26 09:00 due to possible membrane puncture, extreme negative and low values occurred during the beginning of the deployment and increased throughout.
 Deleted pH from 5/12 10:30 – 5/26 09:00, pH slope was out of range and readings did not fluctuate normally.
 Deleted DO from 7/27 @10:30 to 8/9 @ 11:00 due to high and erratic readings
 Deleted DO from 8/22 @ 14:45 to 15:30 due to extreme low values, possible air bubble.
 The rest of the deployment appears to be OK.
 Deleted DO from 10/10 @12:30 to 10/25 @12:45, values were low for the entire deployment with large discrepancies between deployments and a post cal reading of 72%.
 All data was removed during an all parameter spike at 11/21/06 @13:30

Deleted DO from 11/21 @ 13:45 to 12/5 @12:15 due to sensor malfunction
 Deleted DO from 12/5 @12:30 to 12/20 @ 12:45 due to sensor malfunction

13) Missing data:

Data are missing due to equipment or associated specific probes not being deployed, equipment failure, time of maintenance or calibration of equipment, or repair/replacement of a sampling station platform. For more details on deleted data, see the Deleted Data Section (12). If additional information on missing data is needed, contact the Research Coordinator at the Reserve submitting the data.

Cabretta creek:

Data was lost at Cabretta from 5/25/06 @ 22:30 to 6/5/06 @ 13:00 because the station was damaged, probably from a vessel impact. The tubes were replaced and remounted.

Hunt Dock:

Missing data from 10/21 @ 02:30 -10/25 @12:30 due to deployment tube replacement.

14) Post deployment information:

End of deployment post-calibration readings in standards solutions prior to cleaning.
 N/A = probe absent/not functioning.

Cabretta:

Date	DO%	Ph	Depth m	Turbidity	SpCond
1/6/06	100.7	7.46	.307	95.2	25.69
1/19/06	107.2	8.81	.127	126.7	24.67
2/01/06	109.5	15.8	-.081	125	24.55
2/27/06	95.6	7.48	.093	135.8	24.37
3/15/06	86.5	8.03	-.035	127.8	24.49
3/16/06	102	7.95	.054	124.2	24.79
3/31/06	97.3	8.24	.014	122.3	24.47
4/10/06	95.8	7.32	-.036	115	25.14
4/27/06	126.2	8.22	-.039	129	26.00
5/11/06	85.9	8.23	-.051	143	26.11
5/26/06	98.2	n/a	.032	104	24.74
6/16/06	82	6.81	-.022	135	24.90
6/29/06	35	6.99	.026	122	25.05
7/11/06	n/a	7.03	.034	119	24.55
7/27/06	21.8	7.4	.003	130	24.41
8/10/06	82	6.81	-.022	135.5	24.90
8/24/06	81.8	6.44	-.042	130	25.02
9/7/06	n/a	7.05	-.037	118	24.57
9/25/06	96.3	6.76	-.034	127	24.19

10/16/06	94.7	6.9	.003	121.4	25.22
10/26/06	112	7.68	.021	123.1	25.34
11/09/06	100.4	7.56	-.285	118.9	24.63
11/27/06	89.9	7.23	-.002	147	25.37
12/06/06	135.4	7.42	.115	132	24.22
12/22/06	n/a	8.22	-.037	120.1	26.44
1/4/07	109.2	7.88	-.101	124.8	24.39

Dean creek:

Date	DO%	Ph	Depth m	Turbidity	SpCond
12/21/06	96	6.8	0	121	25.02
1/3/06	108	7.5	.005	123.7	24.64
1/17/06	106.9	7.59	-.027	106	24.31
1/30/06	97.1	8.09	.177	125.4	23.95
2/13/06	92.8	n/a	-.005	142.2	24.08
2/27/06	101.3	7.49	-.095	109.5	25.24
3/16/06	103.2	7.63	.091	117.3	24.74
3/29/06	93	7.56	.011	116	24.62
4/10/06	91.8	n/a	-.084	145.3	24.55
4/27/06	77.3	7.41	.021	145.7	24.19
5/11/06	104.2	n/a	.083	104.2	26.93
5/25/06	84.2	7.34	-.021	121	24.7
6/14/06	87.1	7.49	.225	128.1	26.13
6/29/06	98.9	6.96	-.070	128	24.87
7/11/06	96.7	7.33	-.035	125.9	24.78
7/26/05	93.6	7.48	-.040	138.4	24.88
8/9/06	125.2	7.5	-.124	137	23.52
8/22/06	107.4	7.64	-.124	118.6	24.63
9/6/06	116	7.14	.059	125	23.91
10/10/06	88.8	7.59	.256	119.5	24.62
10/25/06	119.6	7.48	-.126	117.3	24.75
11/7/06	99.5	7.35	.081	132	23.92
11/21/06	83.3	8	.088	136.1	24.55
12/5/06	104.2	7.47	-.147	120.6	24.02
12/20/06	96.4	7.81	-.068	125.7	24.75

Hunt Dock

Date	DO%	Ph	Depth m	Turbidity	SpCond
1/6/06	95	7.24	-.092	119.5	24.67
1/19/06	95.6	7.48	.093	135.8	24.37
2/1/06	98.9	7.80	-.256	123.8	24.76
2/27/06	106	7.29	.435	113.4	24.61
3/15/06	49.5	7.90	.014	122.2	24.59
3/16/06	67.5	n/a	-.023	132.1	25.09
3/31/06	97.7	7.52	.023	121.2	25.37
4/10/06	99.4	n/a	.007	118.7	25.06

4/27/06	97.1	7.69	-.031	130	24.86
5/11/06	n/a	7.71	-.147	145.1	21.80
5/26/06	48.1	n/a	-.015	107.6	24.98
6/16/06	74.4	7.23	.062	143	29.31
6/29/06	70.8	7.61	.045	124.1	24.78
7/11/06	68/9	7.30	.037	122	25.53
7/27/06	108.2	7.15	.021	132	24.78
8/10/06	102.1	7.54	-.001	132.2	25.76
8/24/06	n/a	6.99	-.032	128.7	25.21
9/7/06	113	7.04	-.040	118.8	24.90
9/25/06	91.3	7.21	.042	127.7	25.21
10/16/06	105.2	7.01	-.061	125	25.08
10/21/06	125	7.40	.066	118.9	28.20
11/9/06	103.8	7.78	.145	105.1	24.50
11/27/06	98.2	7.37	0	147.5	24.50
12/6/06	111.2	8.36	.018	134.8	24.37
12/21/06	107	7.44	-.046	120.4	25.38
01/04/07	115.2	7.32	-.057	126.1	24.95

Lower Duplin

Date	DO%	Ph	Depth m	Turbidity	SpCond
1/4/06	116.1	7.29	-.034	119.2	24.73
1/18/06	98	9.90	-.081	125.7	24.50
1/31/06	95.9	7.46	-.081	125.7	24.50
2/14/06	95.9	8.01	.198	121.4	24.45
2/28/06	99.5	7.50	-.015	142.4	24.83
3/20/06	92.6	7.58	-.029	114.2	24.00
3/30/06	100.1	n/a	.024	115.2	24.78
4/13/06	73	7.83	.070	115.3	24.79
5/3/06	134.9	7.76	-.207	125.3	23.33
5/16/06	100	8.03	.025	143	24.50
5/26/06	104	6.79	.086	106.9	24.90
6/15/06	103.4	7.34	.078	113.9	25.19
6/30/06	71.1	7.39	.003	96.7	24.71
7/11/06	99.2	6.43	.060	127	25.17
7/27/06	96.2	7.37	.003	130	25.29
8/10/06	n/a	7.48	-.030	134.1	24.56
8/24/06	110	7.67	-.062	140	24.35
9/7/06	93.8	7.70	-.046	126	25.50
9/25/06	103.7	7.45	.003	125	24.28
10/16/06	91	7.20	.001	126.8	24.30
10/26/06	71.9	7.34	.078	113.9	25.19
11/9/06	107.8	7.91	-.070	119.5	24.15
11/27/06	107.7	7.41	.001	140.7	25.34
12/6/06	109.2	8.10	.492	134.4	23.32

12/21/06	72.9	7.65	-.052	120	25.5
12/31/06	96.2	8.10	-.083	125.6	24.97

15) Other remarks:

On 10/02/2019 this dataset was updated to include embedded QAQC flags for anomalous/suspect data. System-wide monitoring data beginning in 2007 were processed to allow for QAQC flags and codes to be embedded in the data files rather than detailed in the metadata alone (as in the anomalous/suspect, deleted, and missing data sections above). Prior to 2006, rejected data were deleted from the dataset so they are unavailable to be used at all, but suspect data were only noted in the metadata document. Suspect data flags <1> were embedded retroactively in order to allow suspect data to be easily identified and filtered from the dataset if desired for analysis and reporting purposes. No other flags or codes were embedded in the dataset and users should still refer to the detailed explanations above for more information.

Data editing followed CDMO protocol. Out of range data has been rejected or noted. Large spikes and other unusual readings though reported in the anomalous data section were usually retained, as a direct cause usually cannot be pinpointed. Also, we have had an unusually dry year and were not significantly affected by any major tropical activity.

A Sutron Sat-Link2 transmitter was installed at the lower Duplin sampling station on 8/8/06 and transmits data to the NOAA GOES satellite, NESDIS ID #3B0376E4. The transmissions are scheduled hourly and contain four (4) datasets reflecting fifteen minute data sampling intervals. The telemetry data is "Provisional" data and not the "Authentic" dataset used for long term monitoring and study. This data can be viewed by going to <http://cdmo.baruch.sc.edu>.

15 min interval and telemetry begin on 8/9 @11:30

There were no major rain/storm events in 2006.