

## ANOMALOUS DATA

This section identifies data that have been determined to be erroneous and removed from the final data set by the 2003 Rescue Project Data Manager or NERR Technicians, provides justification for the removal of the inaccurate data, and identifies “questionable” data. Questionable or suspect data are data that may be compromised in quality but remain in the data set. Wherever possible, both questionable and erroneous data are correlated with information from relevant documentation that may help to explain any problems with the data. The user should evaluate and use these data with caution. Data that have been removed from the final data set are still present in unedited and/or raw data files. Please see the FGDC compliant metadata document for more information on the quality assurance/quality control procedures used to identify erroneous or suspect data. The following information is organized by parameter within each year.

### Water Quality data were collected at Oyster Landing for the following dates:

10/25/1993 – 12/31/2002

#### 1993

##### All Variables

12/26/93 00:00 – 12/26/93 01:00 Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

#### 1994

##### All Variables

01/04/94 19:30 Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)  
04/04/94 08:00 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)  
05/02/94 08:00 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)  
05/16/94 08:00 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)  
06/06/94 15:00 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, NERR Technician cleaned DO membrane with methanol at this time)  
09/12/94 08:00 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, NERR Technician cleaned DO membrane with methanol at this time)  
11/21/94 11:00 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, salinity probe was temporarily removed from water for cleaning at this time)

##### Dissolved Oxygen % & mg/L

05/10/94 14:30 NERR Technician cleaned DO membrane with methanol  
05/24/94 15:00 NERR Technician cleaned DO membrane with methanol  
06/06/94 16:00 NERR Technician cleaned DO membrane with methanol  
06/21/94 10:00 NERR Technician cleaned DO membrane with methanol  
07/06/94 10:05 NERR Technician cleaned DO membrane with methanol  
08/05/94 13:30 – 08/08/94 08:00 Questionable data (readings drift upward to very large values until the end of the deployment, beginning around the time that the DO membrane was cleaned)  
08/05/94 15:45 NERR Technician cleaned DO membrane with methanol  
08/15/94 15:20 NERR Technician cleaned DO membrane with methanol  
09/12/94 09:05 NERR Technician cleaned DO membrane with methanol  
10/10/94 10:40 NERR Technician cleaned DO membrane with methanol  
10/24/94 10:40 NERR Technician cleaned DO membrane with methanol  
11/08/94 15:05 NERR Technician cleaned DO membrane with methanol  
11/21/94 09:35 NERR Technician cleaned DO membrane with methanol

12/05/94 12:12

NERR Technician cleaned DO membrane with methanol

## 1995

### **All Variables**

05/02/95 10:00

NERR Technician removed erroneous data (probes out of water)

05/19/95 15:00

2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

### **Specific Conductivity**

08/28/95 01:00 – 08/28/95 07:30

Questionable data (readings drop off quickly to very low values, possibly due to large rain event on previous day)

### **Salinity**

08/28/95 01:00 – 08/28/95 07:30

Questionable data (readings drop off quickly to very low values, possibly due to large rain event on previous day)

### **Dissolved Oxygen % and mg/L**

02/06/95 13:00 – 02/15/95 12:30

2003 Data Manager removed erroneous data (readings at start of deployment were unbelievably high and then began to drift lower, membrane was probably not installed properly)

05/04/95 13:00 – 05/08/95 07:30

2003 Data Manager removed erroneous data (readings began to climb to unbelievable values, much of this data had already been removed by the NERR Technician because it was out of range, the membrane was probably punctured, remaining data were removed)

05/06/95 13:00 – 05/06/95 17:00

NERR Technician removed erroneous data (readings were out of range)

05/06/95 18:30 – 05/06/95 21:00

NERR Technician removed erroneous data (readings were out of range)

05/07/95 14:00 – 05/07/95 17:00

NERR Technician removed erroneous data (readings were out of range)

05/19/95 15:30 – 06/05/95 06:30

2003 Data Manager removed erroneous data (readings were unbelievably high at the start of and throughout most of the deployment, much of the data had been removed by the NERR Technician because it was out of range, 2003 Data Manager determined that the membrane was probably either not installed properly or punctured and removed the remaining data)

05/19/95 23:30 – 05/20/95 01:30

NERR Technician removed erroneous data (readings were out of range)

05/20/95 11:30 – 05/21/95 04:00

NERR Technician removed erroneous data (readings were out of range)

05/21/95 12:30 – 05/21/95 19:30

NERR Technician removed erroneous data (readings were out of range)

05/21/95 23:30 – 05/22/95 04:30

NERR Technician removed erroneous data (readings were out of range)

05/22/95 13:30 – 05/22/95 19:30

NERR Technician removed erroneous data (readings were out of range)

05/23/95 02:30 – 05/23/95 05:00

NERR Technician removed erroneous data (readings were out of range)

05/23/95 15:00 – 05/23/95 19:30

NERR Technician removed erroneous data (readings were out of range)

05/24/95 04:00 – 05/24/95 04:30

NERR Technician removed erroneous data (readings were out of range)

05/24/95 16:00 – 05/24/95 18:30

NERR Technician removed erroneous data (readings were out of range)

05/25/95 17:00 – 05/25/95 17:30

NERR Technician removed erroneous data (readings were out of range)

05/26/95 17:30

NERR Technician removed erroneous data (readings were out of range)

05/31/95 20:00 – 05/31/95 21:30

NERR Technician removed erroneous data (readings were out of range)

06/01/95 14:00 – 06/01/95 14:30

NERR Technician removed erroneous data (readings were out of range)

07/17/95 11:00 – 07/18/95 07:30

Questionable data (readings began climbing rapidly to very large values, possible animal in the probe guard or membrane puncture)

### **Depth**

05/19/95 15:30 – 06/05/95 06:30

Depth readings for this deployment were only recorded to one decimal place (10<sup>th</sup> of a meter)

### **pH**

02/06/95 13:00 – 03/01/95 09:00

2003 Data Manager removed erroneous data (readings were unreasonable high, initial attempts at recording pH data, probable calibration problems)

05/19/95 15:00 – 06/05/95 06:30 2003 Data Manager removed erroneous data (readings were unreasonable high, second attempt at recording pH data, probable calibration problems)

## 1996

### **All Variables**

01/01/96 00:00 – 01/04/96 08:30 These data were recorded by the Hydrolab, the rest of the year's readings were recorded by the YSI

07/25/96 14:30 – 08/05/96 16:00 Questionable data (depth readings were incorrect for this time period and removed by the NERR Technician, readings for the other parameters appear reasonable, however, there is no way to know what depths they were taken at)

### **Dissolved Oxygen % & mg/L**

03/11/96 17:00 - 03/13/96 10:30 NERR Technician removed erroneous data (extremely high readings)

04/22/96 14:30 – 04/25/96 10:00 2003 Data Manager removed erroneous data (large discontinuity and very high readings, probable membrane puncture)

04/26/96 20:30 – 05/09/96 08:30 2003 Data Manager removed erroneous data (readings jumped to extremely high value (large discontinuity) and then drifted through the deployment period, probable membrane tear)

06/10/96 21:30 Questionable data (large readings, much higher than the surrounding readings)

10/05/96 07:00 – 10/14/96 14:00 NERR Technician removed erroneous data (extremely high readings)

### **Depth**

07/25/96 14:30 – 08/05/96 16:00 NERR Technician removed erroneous data (mud in sensor, sensor failure)

### **Turbidity**

01/16/96 18:30 – 01/17/96 12:30 Questionable data (data interspersed with erroneous negative readings (removed), possibly from animals or debris in the probe compartment or wiper malfunction, other readings may have been affected as well)

01/16/96 18:00 2003 Data Manager removed erroneous data (large negative reading(s))

01/16/96 19:00 – 01/16/96 19:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/17/96 01:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/17/96 04:00 2003 Data Manager removed erroneous data (large negative reading(s))

01/17/96 08:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/17/96 09:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/17/96 10:00 2003 Data Manager removed erroneous data (large negative reading(s))

01/17/96 13:00 – 01/17/96 14:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/24/96 22:00 Questionable data (negative reading(s), within known calibration error)

01/24/96 23:00 – 01/24/96 23:30 Questionable data (negative reading(s), within known calibration error)

01/25/96 01:30 – 01/25/96 02:00 Questionable data (negative reading(s), within known calibration error)

01/25/96 09:00 Questionable data (negative reading(s), within known calibration error)

01/25/96 11:00 Questionable data (negative reading(s), within known calibration error)

01/25/96 14:00 Questionable data (negative reading(s), within known calibration error)

01/25/96 15:00 Questionable data (negative reading(s), within known calibration error)

01/25/96 16:30 Questionable data (negative reading(s), within known calibration error)

01/25/96 17:30 – 01/25/96 18:30 Questionable data (negative reading(s), within known calibration error)

01/25/96 19:30 Questionable data (negative reading(s), within known calibration error)

01/26/96 00:00 Questionable data (negative reading(s), within known calibration error)

01/26/96 02:00 – 01/26/96 02:30 Questionable data (negative reading(s), within known calibration error)

01/26/96 05:00 Questionable data (negative reading(s), within known calibration error)

01/26/96 06:00 – 01/26/96 08:00 Questionable data (negative reading(s), within known calibration error)

01/26/96 09:00 – 01/26/96 10:30 Questionable data (negative reading(s), within known calibration error)

01/26/96 13:00 – 01/26/96 13:30 Questionable data (negative reading(s), within known calibration error)

01/26/96 15:00 – 01/26/96 16:00 Questionable data (negative reading(s), within known calibration error)

01/26/96 18:00 Questionable data (negative reading(s), within known calibration error)

01/26/96 19:00 – 01/27/96 01:00 Questionable data (negative reading(s), within known calibration error)

01/27/96 02:00	Questionable data (negative reading(s), within known calibration error)
01/27/96 03:00	Questionable data (negative reading(s), within known calibration error)
01/27/96 04:00 – 01/27/96 04:30	Questionable data (negative reading(s), within known calibration error)
02/07/96 14:30 – 02/08/96 09:30	Questionable data (readings increased during this period, there was algae wrapped around the turbidity sensor at the end of the deployment)
02/10/96 11:00 – 02/10/96 13:00	2003 Data Manager removed erroneous data (large negative reading(s))
03/17/96 13:30 – 03/17/96 14:30	2003 Data Manager removed erroneous data (large negative reading(s))
03/18/96 08:00	2003 Data Manager removed erroneous data (large negative reading(s))
04/05/96 15:30	2003 Data Manager removed erroneous data (large negative reading(s))
05/31/96 12:30	2003 Data Manager removed erroneous data (large negative reading(s))
06/21/96 11:00	Questionable data (reading(s) greater than 1000)
08/08/96 10:00 – 08/08/96 10:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/11/96 09:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/14/96 07:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/29/96 01:30	Questionable data (reading(s) greater than 1000)
08/31/96 15:00	2003 Data Manager removed erroneous data (large negative reading(s))

## 1997

### **All Variables**

08/21/97 09:30 – 09/27/97 09:30	Time of readings was off by 35 seconds for this period, NERR Technician changed the actual times to the expected times
11/26/97 11:00 – 12/12/97 10:00	Use data with caution (vandals removed the YSI from its PVC mounting, the unit was discovered nearby underneath the OL pier, data appear reasonable and were retained)

### **Specific Conductivity**

07/31/97 01:00 – 10/15/97 14:00	Questionable data (readings for these deployment periods are noticeably lower than those taken in other deployment periods, possible calibration error)
09/16/97 10:30 – 09/16/97 14:30	Questionable data (fairly low SpCond and salinity readings at low tide may indicate that the sensor port came out of the water, depth readings are also somewhat irregular)

### **Salinity**

07/31/97 01:00 – 10/15/97 14:00	Questionable data (readings for these deployment periods are noticeably lower than those taken in other deployment periods, possible calibration error)
09/16/97 10:30 – 09/16/97 14:30	Questionable data (fairly low SpCond and salinity readings at low tide may indicate that the sensor port came out of the water, depth readings are also somewhat irregular)

### **Dissolved Oxygen % & mg/L**

05/01/97 08:00 – 05/08/97 08:00	2003 Data Manager removed erroneous data (readings jumped to very high levels and remained high through the deployment period, discontinuity from preceding and following data, probable tear in the membrane or heavy fouling)
05/20/97 20:00 – 05/22/97 07:30	2003 Data Manager removed erroneous data (readings jumped to very high levels and remained high throughout the deployment period, discontinuity from preceding and following data, probable tear in the membrane or heavy fouling)
05/31/97 04:30 – 06/05/97 07:30	2003 Data Manager removed erroneous data (extremely high reading, large discontinuity indicating possible membrane puncture, all data following the first discontinuity were removed for the deployment period)
06/11/97 01:30 – 06/19/97 07:30	2003 Data Manager removed erroneous data (extremely high reading, large discontinuity indicating possible membrane puncture, followed by erratic and large readings, all data following the first discontinuity were removed for the deployment period)
06/24/97 17:30 – 07/02/97 11:00	2003 Data Manager removed erroneous data (extremely high reading, large discontinuity indicating possible membrane puncture, followed by erratic and

large readings, all data following the first discontinuity were removed for the deployment period)

07/31/97 11:00 – 08/13/97 10:00 NERR Technician removed erroneous data (erratic readings)  
08/21/97 09:30 – 09/02/97 09:00 NERR Technician removed erroneous data (erratic readings)  
09/16/97 10:30 – 09/29/97 07:00 NERR Technician removed erroneous data (erratic readings)  
10/01/97 00:00 – 10/15/97 14:00 NERR Technician removed erroneous data (erratic readings)

**Depth**

09/16/97 10:30 – 09/16/97 14:30 Questionable data (fairly low SpCond and salinity readings at low tide may indicate that the sensor port came out of the water, depth readings are also somewhat irregular)

**pH**

10/14/97 10:00 – 10/15/97 14:00 2003 Data Manager removed erroneous data (extremely low readings through the end of the deployment, possible probe failure)

**Turbidity**

01/30/97 13:00 – 02/06/97 10:30 Questionable data (data interspersed with erroneous negative (removed) and very large positive readings, possibly from animals or debris in the probe compartment, wiper malfunction, or high turbidity events out of the range of the sensor followed by negative readings caused by sensor “rollover” – see CDMO Operations Manual)

01/30/97 20:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/30/97 23:00 – 01/31/97 01:30 2003 Data Manager removed erroneous data (large negative reading(s))

01/31/97 05:00 2003 Data Manager removed erroneous data (large negative reading(s))

01/31/97 17:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/01/97 00:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/06/97 09:00 – 02/06/97 10:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/08/97 15:30 – 03/10/97 12:30 Questionable data (data interspersed with erroneous negative (removed) and very large positive readings, possibly from animals or debris in the probe compartment, wiper malfunction, or high turbidity events out of the range of the sensor followed by negative readings caused by sensor “rollover” – see CDMO Operations Manual)

03/08/97 15:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/08/97 23:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/09/97 13:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/09/97 15:00 2003 Data Manager removed erroneous data (large negative reading(s))

03/09/97 16:00 2003 Data Manager removed erroneous data (large negative reading(s))

03/09/97 17:30 – 03/09/97 18:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/09/97 21:30 – 03/09/97 22:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/10/97 08:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/10/97 10:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/10/97 11:30 – 03/10/97 12:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/13/97 16:30 2003 Data Manager removed erroneous data (large negative reading(s))

04/25/97 22:30 Questionable data (negative reading(s), within known calibration error)

06/04/97 10:00 Questionable data (negative reading(s), within known calibration error)

06/17/97 11:00 Questionable data (negative reading(s), within known calibration error)

06/30/97 23:00 Questionable data (negative reading(s), within known calibration error)

07/11/97 12:30 Questionable data (negative reading(s), within known calibration error)

07/13/97 07:30 Questionable data (negative reading(s), within known calibration error)

07/13/97 23:30 Questionable data (reading(s) greater than 1000)

07/22/97 15:30 Questionable data (negative reading(s), within known calibration error)

07/27/97 09:30 Questionable data (negative reading(s), within known calibration error)

07/27/97 10:00 Questionable data (reading(s) greater than 1000)

07/28/97 01:00 Questionable data (negative reading(s), within known calibration error)

07/29/97 06:30 Questionable data (negative reading(s), within known calibration error)

07/30/97 05:30	Questionable data (reading(s) greater than 1000)
08/02/97 12:30	Questionable data (negative reading(s), within known calibration error)
08/04/97 04:30	Questionable data (negative reading(s), within known calibration error)

## 1998

### All Variables

08/26/98 19:00 – 08/26/98 20:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
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### Specific Conductivity

03/30/98 15:00 – 04/14/98 09:00	NERR Technician removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
04/14/98 09:30 – 05/10/98 09:30	NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)
11/10/98 15:30 – 11/23/98 10:30	NERR Technician removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
11/24/98 16:00 – 12/09/98 11:00	Questionable data (readings steadily decline or drift during this deployment suspected fouling or barnacles, use these data with caution)

### Salinity

03/30/98 15:00 – 04/14/98 09:00	NERR Technician removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
04/14/98 09:30 – 05/10/98 09:30	NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)
11/10/98 15:30 – 11/23/98 10:30	NERR Technician removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
11/24/98 16:00 – 12/09/98 11:00	Questionable data (readings steadily decline or drift during this deployment suspected fouling or barnacles, use these data with caution)

### DO %

02/26/98 12:00 – 03/16/98 15:30	2003 Data Manager removed erroneous data (readings for the entire deployment were extremely high and disjunct from the readings for the preceding and following deployments, probable tear in the DO membrane at deployment)
06/22/98 13:00 – 06/25/98 09:00	NERR Technician removed erroneous data
07/16/98 20:30	NERR Technician removed erroneous data (negative value(s))
07/21/98 00:30 – 07/21/98 01:00	NERR Technician removed erroneous data (negative value(s))
07/22/98 01:00 – 07/22/98 03:00	NERR Technician removed erroneous data (negative value(s))
07/23/98 02:00 – 07/23/98 04:00	NERR Technician removed erroneous data (negative value(s))
07/24/98 02:00 – 07/24/98 05:30	NERR Technician removed erroneous data (negative value(s))
07/25/98 03:00 – 07/25/98 04:30	NERR Technician removed erroneous data (negative value(s))
07/26/98 03:30 – 07/26/98 07:00	NERR Technician removed erroneous data (negative value(s))
07/26/98 23:00	NERR Technician removed erroneous data (negative value(s))
07/27/98 03:30 – 07/27/98 07:30	NERR Technician removed erroneous data (negative value(s))
08/08/98 03:00	NERR Technician removed erroneous data (negative value(s))
08/31/98 08:00	NERR Technician removed erroneous data (negative value(s))
08/31/98 10:00	NERR Technician removed erroneous data (negative value(s))
09/22/98 16:00 – 11/09/98 12:00	Questionable Data (readings during this time frame seem to vary noticeably with the deployment period, possibly due to sensor malfunction or improper maintenance/deployment procedure, use these data with caution)
12/02/98 16:30 – 12/09/98 11:00	Questionable Data (readings jump to a very high value and then slowly drift to very low values by the end of the deployment period)

**DO mg/L**

02/26/98 12:00 – 03/16/98 15:30	2003 Data Manager removed erroneous data (readings for the entire deployment were extremely high and disjunct from the readings for the preceding and following deployments, probable tear in the DO membrane at deployment)
03/30/98 15:00 – 04/14/98 09:00	NERR Technician removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
04/14/98 09:30 – 05/10/98 09:30	NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)
06/22/98 13:00 – 06/25/98 09:00	NERR Technician removed erroneous data
07/16/98 20:30	NERR Technician removed erroneous data (negative value(s))
07/21/98 00:30 – 07/21/98 01:00	NERR Technician removed erroneous data (negative value(s))
07/22/98 01:00 – 07/22/98 03:00	NERR Technician removed erroneous data (negative value(s))
07/23/98 02:00 – 07/23/98 04:00	NERR Technician removed erroneous data (negative value(s))
07/24/98 02:00 – 07/24/98 05:30	NERR Technician removed erroneous data (negative value(s))
07/25/98 03:00 – 07/25/98 04:30	NERR Technician removed erroneous data (negative value(s))
07/26/98 03:30 – 07/26/98 07:00	NERR Technician removed erroneous data (negative value(s))
07/26/98 23:00	NERR Technician removed erroneous data (negative value(s))
07/27/98 03:30 – 07/27/98 07:30:0	NERR Technician removed erroneous data (negative value(s))
08/08/98 03:00	NERR Technician removed erroneous data (negative value(s))
08/31/98 08:00	NERR Technician removed erroneous data (negative value(s))
08/31/98 10:00	NERR Technician removed erroneous data (negative value(s))
09/22/98 16:00 – 11/09/98 12:00	Questionable Data (readings during this time frame seem to vary noticeably with the deployment period, possibly due to sensor malfunction or improper maintenance/deployment procedure, use these data with caution)
11/10/98 15:30 – 11/23/98 10:30	NERR Technician removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
11/24/98 16:00 – 12/09/98 11:00	Questionable data (SpCond and Salinity readings steadily decline or drift during this deployment, suspected fouling or barnacles, problems with the conductivity probe may affect the DO mg/L data, use these data with caution)
12/02/98 16:30 – 12/09/98 11:00	Questionable Data (readings jump to a very high value and then slowly drift to very low values by the end of the deployment period)

**Depth**

03/30/98 15:00 – 04/14/98 09:00	2003 Data Manager removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
04/14/98 09:30 – 05/10/98 09:30	2003 Data Manager removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)
11/10/98 15:30 – 11/23/98 10:30	2003 Data Manager removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
11/24/98 16:00 – 12/09/98 11:00	Questionable data (SpCond and Salinity readings steadily decline or drift during this deployment, suspected fouling or barnacles, problems with the conductivity probe may affect the Depth data, use these data with caution)

**pH**

04/29/98 12:30 – 05/19/98 08:30	Questionable data (low readings, corrosion on probe connector for at least the first deployment during this time period, unsure when it was repaired/replaced)
12/22/98 15:30 – 12/31/98 23:30	NERR Technician removed erroneous data (probe malfunction, could not be calibrated properly)

**Turbidity**

01/07/98 12:30	Questionable data (negative reading(s), within known calibration error)
06/06/98 04:00 – 06/25/98 05:00	Questionable data (negative reading(s), within known calibration error)



07/05/98 11:30	Questionable data (reading(s) greater than 1000)
07/07/98 14:00	Questionable data (reading(s) greater than 1000)
09/03/98 14:00	Questionable data (reading(s) greater than 1000)
09/14/98 13:00 – 09/21/98 09:00	2003 Data Manager removed erroneous data (extremely high readings, often the same value, probe was fouled with algae)
10/07/98 19:30 – 10/08/98 09:00	Questionable data (intermittent readings greater than 1000, possibly from animals, debris, or algae in the probe compartment; or wiper malfunction)
10/31/98 08:30 – 11/09/98 12:00	Questionable data (readings were very high compared to the rest of the month and dropped off sharply when the probe was switched out, possibly due to crabs or fish in the probe compartment)
12/01/98 00:00 – 12/09/98 11:00	2003 Data Manager removed erroneous data (extremely high readings, often the same value, probe possibly fouled with algae, possibly animals or debris in the probe compartment, readings drop dramatically when the probe was switched out)
12/22/98 21:00	Questionable data (reading(s) greater than 1000)

## 1999

### **All Variables**

02/22/99 14:00 – 02/22/99 15:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, end of deployment)
03/31/99 15:00 – 03/31/99 23:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, end of deployment)
05/25/99 15:00 – 06/14/99 13:00	Questionable data (all probes were fouled when unit was recovered, readings may have been affected, DO data were removed)
07/21/99 08:00 – 08/10/99 08:00	Questionable data (all probes were fouled with barnacles and filamentous algae when unit was recovered, small crabs were also found in probe cage, readings may have been affected)
08/13/99 16:00 – 09/01/99 12:00	Questionable data (all probes were fouled when unit was recovered, readings may have been affected, DO data were removed)
08/30/99 10:00	NERR Technician removed erroneous data (probes out of water)
11/24/99 13:00 – 12/13/99 12:00	Questionable data (NERR Technician found cracked bulkhead with water leaking into the battery compartment when the unit was recovered, readings may have been affected)

### **Specific Conductivity**

09/16/99 01:00 – 09/22/99 15:00	Large amounts of rainfall in mid-late September resulted in very low SpCond, Salinity, and pH readings
10/17/99 19:30 – 10/18/99 23:30	Large amounts of rainfall in mid October resulted in very low SpCond, Salinity, and pH readings

### **Salinity**

09/16/99 01:00 – 09/22/99 15:00	Large amounts of rainfall in mid-late September resulted in very low SpCond, Salinity, and pH readings
10/17/99 19:30 – 10/18/99 23:30	Large amounts of rainfall in mid October resulted in very low SpCond, Salinity, and pH readings

### **Dissolved Oxygen % & mg/L**

05/25/99 15:00 – 06/14/99 13:00	NERR Technician removed erroneous data (negative value(s), probes were fouled when unit was collected)
07/17/99 08:00 – 07/19/99 10:30	2003 Data Manager removed erroneous data (very high reading with large discontinuity indicating possible membrane puncture, followed by extremely high readings for the remainder of the deployment period)
08/13/99 16:00 – 09/01/99 12:00	2003 Data Manager removed erroneous data (readings at start of deployment were unbelievably high, then drifted to very low values, and finally drifted back up to very high values, membrane was probably not installed properly)
09/03/99 14:00 – 09/22/99 15:00	NERR Technician removed erroneous data, possible membrane puncture

10/16/99 12:30 – 11/03/99 14:00 2003 Data Manager removed erroneous data (readings at start of deployment were unbelievably high and then began to drift, membrane was probably not installed properly or punctured during deployment)

### **pH**

01/01/99 00:00 – 01/14/99 16:00 2003 Data Manager removed erroneous data (probe malfunction, could not be calibrated properly, NERR Technician removed deployment data in 1998)

09/16/99 01:00 – 09/22/99 15:00 Large amounts of rainfall in mid September resulted in very low SpCond, Salinity, and pH readings

10/17/99 19:30 – 10/18/99 23:30 Large amounts of rainfall in mid October resulted in very low SpCond, Salinity, and pH readings

### **Turbidity**

05/27/99 01:30 Questionable data (reading(s) greater than 1000)  
05/27/99 18:30 Questionable data (negative reading(s), within known calibration error)  
05/29/99 06:30 Questionable data (reading(s) greater than 1000)  
05/29/99 07:30 Questionable data (reading(s) greater than 1000)  
05/29/99 19:30 Questionable data (negative reading(s), within known calibration error)  
05/30/99 19:30 – 05/30/99 20:30 Questionable data (negative reading(s), within known calibration error)  
05/31/99 08:30 Questionable data (negative reading(s), within known calibration error)  
05/31/99 20:00 – 05/31/99 21:00 Questionable data (negative reading(s), within known calibration error)  
06/04/99 16:30 Questionable data (reading(s) greater than 1000)  
06/04/99 23:30 Questionable data (negative reading(s), within known calibration error)  
06/05/99 12:00 – 06/05/99 12:30 Questionable data (negative reading(s), within known calibration error)  
06/06/99 00:30 – 06/06/99 1:00 Questionable data (negative reading(s), within known calibration error)  
06/06/99 11:30 Questionable data (negative reading(s), within known calibration error)  
06/06/99 12:30 Questionable data (negative reading(s), within known calibration error)  
06/06/99 13:30 Questionable data (negative reading(s), within known calibration error)  
06/06/99 23:00 – 06/07/99 02:00 Questionable data (negative reading(s), within known calibration error)  
06/07/99 08:30 Questionable data (negative reading(s), within known calibration error)  
06/08/99 00:30 – 06/08/99 01:00 Questionable data (negative reading(s), within known calibration error)  
06/08/99 02:00 – 06/08/99 02:30 Questionable data (negative reading(s), within known calibration error)  
06/09/99 02:00 Questionable data (negative reading(s), within known calibration error)  
06/09/99 03:00 – 06/09/99 04:00 Questionable data (negative reading(s), within known calibration error)  
06/09/99 16:00 Questionable data (negative reading(s), within known calibration error)  
06/10/99 03:00 Questionable data (negative reading(s), within known calibration error)  
06/10/99 04:00 Questionable data (negative reading(s), within known calibration error)  
06/10/99 11:30 Questionable data (negative reading(s), within known calibration error)  
06/10/99 16:00 – 06/10/99 17:00 Questionable data (negative reading(s), within known calibration error)  
06/11/99 03:00 Questionable data (negative reading(s), within known calibration error)  
06/11/99 19:30 Questionable data (reading(s) greater than 1000)  
06/12/99 20:00 Questionable data (negative reading(s), within known calibration error)  
06/13/99 21:00 Questionable data (negative reading(s), within known calibration error)  
06/14/99 08:00 – 06/14/99 08:30 Questionable data (negative reading(s), within known calibration error)  
06/14/99 09:00 Questionable data (reading(s) greater than 1000)  
07/11/99 17:00 Questionable data (reading(s) greater than 1000)  
07/17/99 14:30 Questionable data (reading(s) greater than 1000)  
07/25/99 12:00 Questionable data (reading(s) greater than 1000)  
07/28/99 05:30 Questionable data (reading(s) greater than 1000)  
07/28/99 10:00 Questionable data (reading(s) greater than 1000)  
07/29/99 11:00 Questionable data (reading(s) greater than 1000)  
07/30/99 09:00 – 07/30/99 09:30 Questionable data (reading(s) greater than 1000)  
07/30/99 11:00 Questionable data (reading(s) greater than 1000)  
07/31/99 01:30 Questionable data (reading(s) greater than 1000)  
07/31/99 09:30 Questionable data (reading(s) greater than 1000)  
07/31/99 16:30 Questionable data (reading(s) greater than 1000)  
08/01/99 10:30 Questionable data (reading(s) greater than 1000)

08/01/99 11:30	Questionable data (reading(s) greater than 1000)
08/01/99 17:00	Questionable data (reading(s) greater than 1000)
08/02/99 07:00 – 08/02/99 07:30	Questionable data (reading(s) greater than 1000)
08/02/99 10:30	Questionable data (reading(s) greater than 1000)
08/09/99 23:00	Questionable data (reading(s) greater than 1000)

## 2000

### **All Variables**

05/19/00 15:30 – 06/07/00 13:00	Questionable data (probes were fouled when instrument was retrieved, a small toadfish was in the guard)
10/20/00 13:30 – 10/31/00 23:30	Questionable data (failing battery may have affected readings)
12/31/00 16:00 – 12/31/00 23:30	Time stamp was adjusted to reflect 52 second warm-up interval (10:00:52 changed to 10:00)

### **Dissolved Oxygen %**

02/26/00 14:00 – 02/27/00 02:30	Questionable data (readings were very high, barnacles were found on probe when the unit was retrieved at the end of the deployment)
06/15/00 11:00	Questionable data (very low readings, large discontinuity from surrounding readings, possible probe malfunction)
08/02/00 08:00	Questionable data (very low reading, large discontinuity from surrounding readings, possible probe malfunction)
08/06/00 10:00	Questionable data (very low reading, large discontinuity from surrounding readings, possible probe malfunction)
08/07/00 21:30	Questionable data (very low reading, large discontinuity from surrounding readings, possible probe malfunction)
08/09/00 00:00	Questionable data (very low reading, large discontinuity from surrounding readings, possible probe malfunction)
09/15/00 08:30 – 10/04/00 07:30	NERR Technician removed erroneous data (probe malfunction)
10/15/00 04:30	Questionable data (very low reading, large discontinuity from surrounding readings, possible probe malfunction)
10/20/00 13:30 – 10/31/00 23:30	NERR Technician removed erroneous data (probe malfunction, very high readings)

### **Dissolved Oxygen mg/L**

02/26/00 14:00 – 02/27/00 02:30	Questionable data (readings were very high, barnacles were found on probe when the unit was retrieved at the end of the deployment)
06/15/00 11:00	Questionable data (very low readings, large discontinuity from surrounding readings, possible probe malfunction)
09/15/00 08:30 – 10/04/00 07:30	NERR Technician removed erroneous data (probe malfunction)
10/20/00 13:30 – 10/31/00 23:30	NERR Technician removed erroneous data (probe malfunction, very high readings)

### **Depth**

08/02/00 04:00	Questionable data (depth reading drops rapidly to zero or nearly zero, all other readings appear reasonable, possibly a very low tide)
08/03/00 17:00	Questionable data (depth reading drops rapidly to zero or nearly zero, all other readings appear reasonable, possibly a very low tide)
08/04/00 05:30	Questionable data (depth reading drops rapidly to zero or nearly zero, all other readings appear reasonable, possibly a very low tide)

### **pH**

10/06/00 17:30	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/08/00 01:30	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)

10/09/00 02:30	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/09/00 22:30	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/10/00 11:30 – 10/10/00 12:30	Questionable data (readings dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/10/00 23:30	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/11/00 02:00	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/12/00 00:00	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/14/00 01:30	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/14/00 04:00	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/15/00 02:00	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/15/00 05:00	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
10/17/00 03:00	Questionable data (reading dropped to 7.0, discontinuity from surrounding readings, possible probe error)
09/06/00 02:00 – 09/14/00 07:00	NERR Technician removed erroneous data (probe failure)
09/17/00 13:30 – 09/22/00 13:00	NERR Technician removed erroneous data (probe failure)
11/09/00 17:00 – 11/27/00 14:30	NERR Technician removed erroneous data (calibration problem at deployment, probe was replaced)

**Turbidity**

02/09/00 15:00 – 04/11/00 09:30	NERR Technician removed erroneous data (probe failure)
05/10/00 03:00	Questionable data (reading(s) greater than 1000)
05/19/00 15:30 – 06/07/00 13:00	Questionable data (probes were fouled when instrument was retrieved, a small toadfish was in the guard, data are interspersed with readings greater than 1000)
05/25/00 16:30	Questionable data (reading(s) greater than 1000, corresponding rain event)
05/26/00 16:30	Questionable data (reading(s) greater than 1000)
05/28/00 20:30	Questionable data (reading(s) greater than 1000)
05/29/00 09:30	Questionable data (reading(s) greater than 1000)
05/31/00 11:30	Questionable data (reading(s) greater than 1000)
06/02/00 01:00	Questionable data (reading(s) greater than 1000)
06/03/00 13:00	Questionable data (reading(s) greater than 1000)
06/05/00 09:30	Questionable data (reading(s) greater than 1000)
06/05/00 12:30	Questionable data (reading(s) greater than 1000)
06/05/00 13:30	Questionable data (reading(s) greater than 1000)
06/05/00 15:30 – 06/05/00 16:00	Questionable data (reading(s) greater than 1000)
06/05/00 19:00	Questionable data (reading(s) greater than 1000)
06/05/00 20:30	Questionable data (reading(s) greater than 1000)
06/06/00 13:00	Questionable data (reading(s) greater than 1000)
06/06/00 15:00 – 06/06/00 15:30	Questionable data (reading(s) greater than 1000)
06/07/00 10:00	Questionable data (reading(s) greater than 1000)
06/10/00 14:00 – 07/17/00 09:00	Questionable data (readings increased to abnormally high values as each deployment period progressed (possible fouling), interspersed with readings greater than 1000, there were several rain events during this time frame which may account for some high readings)
06/12/00 21:30	Questionable data (reading(s) greater than 1000)
06/16/00 12:00	Questionable data (reading(s) greater than 1000)
06/20/00 04:00	Questionable data (reading(s) greater than 1000)
06/21/00 16:30 – 06/21/00 18:00	Questionable data (reading(s) greater than 1000)

06/22/00 07:00	Questionable data (reading(s) greater than 1000)
06/23/00 16:30	Questionable data (reading(s) greater than 1000)
06/24/00 19:30	Questionable data (reading(s) greater than 1000)
06/25/00 08:30	Questionable data (reading(s) greater than 1000)
06/25/00 18:00	Questionable data (reading(s) greater than 1000)
06/26/00 08:00	Questionable data (reading(s) greater than 1000)
06/28/00 08:30	Questionable data (reading(s) greater than 1000)
06/28/00 11:00 – 06/28/00 11:30	Questionable data (reading(s) greater than 1000)
06/30/00 14:30	Questionable data (reading(s) greater than 1000)
07/02/00 06:00	Questionable data (reading(s) greater than 1000, possibly related to rain event)
07/02/00 12:30	Questionable data (reading(s) greater than 1000)
07/03/00 22:00	Questionable data (reading(s) greater than 1000)
07/08/00 18:00	Questionable data (reading(s) greater than 1000)
07/16/00 17:00	Questionable data (reading(s) greater than 1000)
07/16/00 18:00	Questionable data (reading(s) greater than 1000)
07/17/00 06:00	Questionable data (reading(s) greater than 1000)
08/20/00 00:30 – 08/22/00 06:30	NERR Technician removed erroneous data (readings greater than 1000, and possible fouling due to animals in the guard)
09/02/00 04:30	Questionable data (reading(s) greater than 1000, possibly related to rain event)
09/16/00 14:30	Questionable data (reading(s) greater than 1000)
09/28/00 11:00	Questionable data (reading(s) greater than 1000)

## 2001

### All Variables

01/01/01 00:00 – 02/14/01 09:30	Time stamp was adjusted to reflect 52-second warm-up interval (10:00:52 changed to 10:00)
01/05/01 22:00 – 01/05/01 23:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/09/01 01:00 – 01/09/01 01:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/30/01 11:00 – 01/31/01 23:30	NERR Technician removed erroneous data (early data for this deployment contained negative depth values and erratic readings for other parameters, unit appears to have been too shallow initially)
02/01/01 05:30 – 02/01/01 09:30	NERR Technician removed erroneous data (probes out of water)
03/02/01 10:30 – 03/02/01 15:30	NERR Technician removed erroneous data (probes out of water)
05/01/01 10:00	NERR Technician replaced PVC casing, existing casing was heavily fouled with barnacles, algae, and mussels)
08/08/01 14:30 – 11/01/01 11:30	Time stamp was off by a small amount and adjusted for these files

### Specific Conductivity

#### Dissolved Oxygen % & mg/L

05/01/01 10:00	NERR Technician replaced PVC casing; existing casing was heavily fouled with barnacles, algae, and mussels; DO and depth readings may have been affected prior to this date)
07/01/01 00:00 – 07/05/01 10:00	Questionable data (the sonde was heavily fouled upon retrieval and post-deployment readings were about ½ of what they should have been)
08/28/01 22:30 – 08/29/01 11:00	Questionable data (low readings, possibly due to sensor drift)
10/24/01 10:00 – 11/01/01 11:30	NERR Technician removed erroneous data (possible membrane puncture, readings climb to extremely high values and then remain the same)
12/27/01 14:00 – 12/31/01 23:30	NERR Technician removed erroneous data (negative values, membrane may have been punctured)

### Depth

05/01/01 10:00 NERR Technician replaced PVC casing; existing casing was heavily fouled with barnacles, algae, and mussels; DO and depth readings may have been affected prior to this date)

11/21/01 12:00 – 11/26/01 17:30 Questionable Data (readings are lower than normal, however they are consistent with lower mean high tides for that time period)

**Turbidity**

01/05/01 02:00 – 01/05/01 02:30 Questionable data (negative reading(s), within known calibration error)

01/05/01 04:00 – 01/05/01 04:30 Questionable data (negative reading(s), within known calibration error)

01/05/01 06:00 Questionable data (negative reading(s), within known calibration error)

01/05/01 15:00 Questionable data (negative reading(s), within known calibration error)

01/05/01 16:00 Questionable data (negative reading(s), within known calibration error)

01/06/01 16:30 Questionable data (negative reading(s), within known calibration error)

01/06/01 17:30 Questionable data (negative reading(s), within known calibration error)

01/07/01 06:00 Questionable data (negative reading(s), within known calibration error)

01/08/01 07:00 Questionable data (negative reading(s), within known calibration error)

01/10/01 08:30 – 01/10/01 09:00 Questionable data (negative reading(s), within known calibration error)

01/16/01 00:30 Questionable data (negative reading(s), within known calibration error)

01/23/01 17:30 – 01/30/01 10:30 2003 Data Manager removed erroneous data (extremely erratic readings for the entire deployment period, often very high and the same value, probe possibly fouled with algae)

02/20/01 19:00 Questionable data (negative reading(s), within known calibration error)

02/21/01 19:30 Questionable data (negative reading(s), within known calibration error)

02/23/01 21:00 Questionable data (negative reading(s), within known calibration error)

02/26/01 10:30 Questionable data (negative reading(s), within known calibration error)

02/26/01 21:30 Questionable data (negative reading(s), within known calibration error)

02/27/01 11:00 Questionable data (negative reading(s), within known calibration error)

03/01/01 12:00 Questionable data (negative reading(s), within known calibration error)

04/04/01 06:00 – 04/10/01 12:00 NERR Technician removed erroneous data (reading(s) climb quickly to greater than 1000 and remain there throughout the end of the deployment period)

05/27/01 23:00 Questionable data (reading(s) greater than 1000)

06/25/01 18:30 – 06/25/01 19:30 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

06/25/01 20:30 – 06/25/01 22:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

06/25/01 23:00 – 06/26/01 00:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

06/26/01 01:00 – 06/26/01 03:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

06/26/01 23:30 Questionable data (reading(s) greater than 1000)

07/19/01 13:30 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

07/19/01 15:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

07/19/01 16:30 – 07/19/01 17:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

07/19/01 19:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

07/19/01 20:30 – 07/19/01 22:00 Questionable data (reading(s) greater than 1000, probably associated with large rainfall event and resulting siltation)

07/25/01 03:30 Questionable data (reading(s) greater than 1000)

07/25/01 22:30 Questionable data (reading(s) greater than 1000)

07/26/01 05:30 Questionable data (reading(s) greater than 1000)

10/05/01 19:30 – 10/06/01 06:00 NERR Technician removed erroneous data (probe appeared to be faulty, in use while waiting for a replacement, readings were not correlated with other events, were mostly greater than 1000 and often the same number)

10/19/01 06:00 Questionable data (reading(s) greater than 1000)  
 10/24/01 10:00 – 11/01/01 11:30 NERR Technician removed erroneous data (probe appeared to be faulty, in use while waiting for a replacement, readings were not correlated with other events, many were large negative values)

## 2002

### **All Variables**

01/29/02 NERR Technician began wrapping bottom of sonde in a wet, white towel and transporting in a bucket with small amount of water upon retrieval, during post calibration of dissolved oxygen, and prior to deployment. Previous protocol involved using YSI-supplied calibration cup.

01/06/02 20:30 – 01/06/02 22:00 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

02/04/02 20:00 - 02/04/02 20:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

03/03/02 06:00 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

03/03/02 17:30 – 03/03/02 18:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

03/04/02 06:30 – 03/04/02 07:00 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

03/04/02 18:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

03/13/02 14:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

04/29/02 04:30 – 04/29/02 05:00 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

05/20/02 NERR Technician replaced the PVC sonde tube, heavy fouling may have effected some data prior to this date

05/14/02 14:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

07/31/02 08:30 – 08/15/02 08:00 Time stamp was adjusted for this file (off by 4 minutes and 47 seconds)

07/31/02 08:30 – 08/15/02 08:00 New Extended Deployment Sonde (Unit T) was deployed during this period due to problems with Unit T

08/16/02 08:30 – 08/28/02 11:00 Unit J (with 6136 turbidity probe) was deployed during this period due to a calibration error with the EDS sonde (Unit T)

11/06/02 16:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

11/30/02 22:30 – 12/01/02 00:00 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

### **Specific Conductivity**

10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

### **Salinity**

10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

### **Dissolved Oxygen %**

01/01/02 00:00 – 01/02/02 13:00 NERR Technician removed erroneous data (possible membrane puncture, negative values)

03/04/02 NERR Technician changed probe warm-up period to 60 seconds

06/22/02 02:30 – 06/24/02 08:00 NERR Technician removed erroneous data (heavy fouling of membrane upon retrieval, readings rose to very high values and then fell to large negative values,

data were deleted from the point of suspected fouling through the end of the deployment)

**Dissolved Oxygen mg/L**

01/01/02 00:00 – 01/02/02 13:00 NERR Technician removed erroneous data (possible membrane puncture, negative values)  
03/04/02 NERR Technician changed probe warm-up period to 60 seconds  
06/22/02 02:30 – 06/24/02 08:00 NERR Technician removed erroneous data (heavy fouling of membrane upon retrieval, readings rose to very high values and then fell to large negative values, data were deleted from the point of suspected fouling through the end of the deployment)  
10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

**Depth**

10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

**Turbidity**

02/28/02 NERR Technician began using new YSI-approved turbidity standard to calibrate  
07/08/02 06:00 Questionable data (reading(s) greater than 1000)  
08/08/02 16:30 Questionable data (reading(s) greater than 1000)  
08/16/02 08:30 – 08/28/02 11:00 Turbidity unit was not calibrated prior to this deployment, suspected problem with the APS turbidity standard.  
08/23/02 08:30:00 Questionable data (negative reading(s), within known calibration error)  
08/23/02 21:30:00 Questionable data (negative reading(s), within known calibration error)  
08/24/02 09:30:00 Questionable data (negative reading(s), within known calibration error)  
08/24/02 21:00 – 08/24/02 22:00 Questionable data (negative reading(s), within known calibration error)  
08/25/02 08:30:00 Questionable data (negative reading(s), within known calibration error)  
08/25/02 09:30 – 08/25/02 11:00 Questionable data (negative reading(s), within known calibration error)  
08/26/02 11:00:00 Questionable data (negative reading(s), within known calibration error)  
08/28/02 05:30 Questionable data (reading(s) greater than 1000)