

MISSING DATA

This section identifies data that are missing from the dataset and erroneous data that were removed by the 2003 Rescue Project Data Manager. Wherever possible, missing data are correlated with information from relevant documentation that may help to explain their absence. Identification of erroneous data that were removed includes an explanation for their removal. These data were removed from the final data set only and are still present in the raw data. Please see the Anomalous Data section for a complete list of all erroneous and questionable data. The following information is organized by parameter within each year.

Water Quality data were collected at Thousand Acre for the following dates:

04/15/1994 – 12/31/2002

1994

All Variables

05/02/94 08:30 – 05/02/94 12:30	maintenance
05/09/94 09:30 – 05/09/94 12:00	maintenance
05/16/94 08:30 – 05/16/94 12:30	maintenance
05/30/94 08:30 – 05/30/94 15:30	maintenance
06/13/94 08:30 – 06/13/94 13:30	maintenance
06/27/94 08:30 – 06/27/94 14:30	maintenance
07/11/94 08:30 – 07/11/94 12:30	maintenance
07/25/94 08:30 – 07/25/94 12:30	maintenance
08/08/94 08:30 – 08/08/94 17:30	maintenance
08/22/94 08:30 – 08/22/94 14:30	maintenance
09/02/94 08:30 – 09/02/94 14:30	maintenance
09/19/94 08:30 – 09/19/94 12:30	maintenance
09/30/94 08:30 – 09/30/94 23:30	maintenance
10/13/94 08:30 – 10/14/94 14:30	maintenance
10/31/94 08:30 – 10/31/94 14:30	maintenance
11/14/94 09:00 – 11/14/94 15:30	maintenance
11/28/94 09:30 – 11/28/94 15:30	maintenance
12/12/94 09:00 – 12/12/94 16:30	maintenance

Temperature

None other than missing data listed in “All Variables” above

Specific Conductivity

05/09/94 12:30 – 05/30/94 08:00	2003 Data Manager removed erroneous data (freshwater block in use until 05/30/94, NERR technician had already removed most of this data as being out of range/erroneous, all affected parameters were removed)
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Salinity

05/09/94 12:30 – 05/30/94 08:00	2003 Data Manager removed erroneous data (freshwater block in use until 05/30/94, NERR technician had already removed most of this data as being out of range/erroneous, all affected parameters were removed)
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Dissolved Oxygen %

04/25/94 09:45	Technician wiped DO membrane clean with methanol
06/06/94 15:20	Technician wiped DO membrane clean with methanol
06/21/94 11:00	Technician wiped DO membrane clean with methanol
07/06/94 16:00	Technician wiped DO membrane clean with methanol
07/15/94 15:05	Technician wiped DO membrane clean with methanol
08/01/94 15:45	Technician wiped DO membrane clean with methanol
08/15/94 15:00	Technician wiped DO membrane clean with methanol
09/12/94 09:05	Technician wiped DO membrane clean with methanol

10/10/94 10:00	Technician wiped DO membrane clean with methanol
10/25/94 11:00	Technician wiped DO membrane clean with methanol
11/07/94 14:40	Technician wiped DO membrane clean with methanol
12/05/94 14:33	Technician wiped DO membrane clean with methanol

Dissolved Oxygen mg/L

04/25/94 09:45	Technician wiped DO membrane clean with methanol
05/09/94 12:30 – 05/30/94 08:00	2003 Data Manager removed erroneous data (freshwater block in use for salinity/conductivity until 05/30/94, salinity/conductivity data were determined to be erroneous/out of range, all affected parameters were removed)
06/06/94 15:20	Technician wiped DO membrane clean with methanol
06/21/94 11:00	Technician wiped DO membrane clean with methanol
07/06/94 16:00	Technician wiped DO membrane clean with methanol
07/15/94 15:05	Technician wiped DO membrane clean with methanol
08/01/94 15:45	Technician wiped DO membrane clean with methanol
08/15/94 15:00	Technician wiped DO membrane clean with methanol
09/12/94 09:05	Technician wiped DO membrane clean with methanol
10/10/94 10:00	Technician wiped DO membrane clean with methanol
10/25/94 11:00	Technician wiped DO membrane clean with methanol
11/07/94 14:40	Technician wiped DO membrane clean with methanol
12/05/94 14:33	Technician wiped DO membrane clean with methanol

Depth

05/09/94 12:30 – 05/30/94 08:00	2003 Data Manager removed erroneous data (freshwater block in use for salinity/conductivity until 05/30/94, salinity/conductivity data were determined to be erroneous/out of range, all affected parameters were removed)
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pH

04/15/94 14:00 – 12/31/94 23:30

Turbidity

04/15/94 14:00 – 12/31/94 23:30

1995

All Variables

01/03/95 09:00 – 01/03/95 13:30	maintenance
01/16/95 09:30 – 01/17/95 11:30	maintenance
02/01/95 09:00 – 02/02/95 15:30	maintenance
02/15/95 09:00 – 02/15/95 13:30	maintenance
03/01/95 09:00 – 03/01/95 15:30	maintenance
03/20/95 09:00 – 03/20/95 15:30	maintenance
04/07/95 09:00 – 04/07/95 14:30	maintenance
04/24/95 08:00 – 05/08/95 14:30	maintenance
05/08/95 15:00 – 05/19/95 08:30	2003 Data Manager removed erroneous data (a YSI was deployed for this period and it appears that the calibrations were off, DO readings were often not recorded because they were out of the sensors range and pH values steadily declined during this period, there were also large discrepancies in the parameter values when the new deployment began)
05/19/95 09:00 – 05/19/95 09:30	maintenance
06/05/95 08:00 – 06/05/95 11:30	maintenance
06/06/95 23:00 – 06/07/95 01:00	battery failure (low power)
06/07/95 06:30 – 06/07/95 11:00	battery failure (low power)
06/19/95 07:30 – 06/19/95 12:30	maintenance
07/05/95 08:00 – 07/05/95 15:00	maintenance
07/18/95 08:00 – 07/18/95 09:00	maintenance
07/31/95 08:30 – 07/31/95 15:00	maintenance

08/14/95 09:30 – 08/14/95 16:00	maintenance
08/15/95 14:00 – 08/16/95 08:30	maintenance
08/28/95 10:00 – 08/29/95 11:30	maintenance
08/29/95 12:00	2003 Data Manager removed erroneous data (DO and pH readings indicated that sensors may have still been out of the water – these were the first readings for this deployment period)
09/01/95 09:00 – 09/01/95 12:30	maintenance
09/11/95 08:00 – 09/12/95 08:30	maintenance
09/25/95 09:00 – 09/25/95 15:30	maintenance
10/09/95 09:00 – 10/10/95 11:00	maintenance
10/15/95 22:30 – 10/15/95 23:00	battery failure (low power)
10/16/95 05:30 – 10/16/95 11:00	battery failure (low power)
10/16/95 20:30 – 10/17/95 00:30	battery failure (low power)
10/17/95 06:30 – 10/17/95 12:00	battery failure (low power)
10/17/95 20:00 – 10/18/95 01:30	battery failure (low power)
10/18/95 06:30 – 10/18/95 13:30	battery failure (low power)
10/18/95 21:30 – 10/19/95 04:30	battery failure (low power)
10/19/95 05:30 – 10/19/95 14:00	battery failure (low power)
10/19/95 20:30 – 10/24/95 14:30	maintenance
11/08/95 10:30 – 11/10/95 14:30	maintenance
11/22/95 10:30 – 11/28/95 12:30	maintenance
12/08/95 09:00 – 12/11/95 11:30	maintenance
12/21/95 01:30 – 12/21/95 12:30	maintenance
12/25/95 06:00 – 12/25/95 07:30	battery failure (low power)
12/25/95 20:00 – 12/25/95 21:00	battery failure (low power)
12/26/95 03:30 – 12/26/95 11:30	battery failure (low power)
12/26/95 15:30 – 12/31/95 23:30	battery failure (low power)

Temperature

None other than missing data listed in “All Variables” above

Specific Conductivity

None other than missing data listed in “All Variables” above

Salinity

None other than missing data listed in “All Variables” above

Dissolved Oxygen % & mg/L

06/24/95 15:30	Data were not recorded (out of range, possibly due to rain storm on 06/24/95)
06/07/95 11:30 – 06/19/95 07:00	2003 Data Manager removed erroneous data (readings climbed to unbelievably high values, became very erratic, and then steadily declined to extremely low values, probable membrane puncture or tear)
08/28/95 07:00 – 08/28/95 09:30	2003 Data Manager removed erroneous data (readings climbed to unbelievably high values, probable membrane puncture or tear)

Depth

12/21/95 13:00 – 12/26/95 15:00	NERR Technician removed erroneous data (unrealistic values for conditions)
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pH

01/01/95 00:00 – 05/08/95 14:30	no pH probe in service
05/19/95 10:00 – 06/05/95 07:30	no pH probe in service
06/19/95 13:00 – 07/18/95 07:30	no pH probe in service
11/10/95 15:00 – 11/22/95 10:00	2003 Data Manager removed erroneous data (readings consistently declined throughout the deployment period to unbelievably low readings, probable sensor malfunction)
11/28/95 13:00 – 12/21/95 01:00	no pH probe in service

Turbidity

01/01/95 00:00 – 05/08/95 14:30	no turbidity probe in service
05/11/95 05:30	Data were not recorded (out of range)
05/11/95 20:00	Data were not recorded (out of range)
05/13/95 17:00 – 05/13/95 18:00	Data were not recorded (out of range)
05/14/95 06:30 – 05/14/95 07:30	Data were not recorded (out of range)
05/14/95 08:30	Data were not recorded (out of range)
05/14/95 18:30 – 05/14/95 20:30	Data were not recorded (out of range)
05/14/95 22:30	Data were not recorded (out of range)
05/15/95 08:30 – 05/15/95 10:00	Data were not recorded (out of range)
05/15/95 17:30	Data were not recorded (out of range)
05/16/95 19:30	Data were not recorded (out of range)
05/17/95 03:00	Data were not recorded (out of range)
05/17/95 05:00	Data were not recorded (out of range)
05/18/95 16:00	Data were not recorded (out of range)
05/19/95 06:30	Data were not recorded (out of range)
05/19/95 09:00 – 12/31/95 23:30	no turbidity probe in service

1996

All Variables

01/01/96 00:00 – 01/05/96 11:30	unit malfunction (water in unit)
01/22/96 14:30	maintenance
02/08/96 09:30 – 02/09/96 12:30	maintenance
02/27/96 13:30 – 03/01/96 13:30	maintenance
03/13/96 10:30 – 03/14/96 15:00	maintenance
03/28/96 09:00 – 03/29/96 15:00	maintenance
04/11/96 09:00 – 04/12/96 12:30	maintenance
04/25/96 09:30 – 04/26/96 15:30	maintenance
05/09/96 10:30 – 05/10/96 15:30	maintenance
05/27/96 16:30 – 06/07/96 09:00	maintenance, turbidity sensor replacement
06/25/96 11:00 – 06/26/96 12:30	maintenance
07/08/96 09:30 – 07/10/96 13:30	maintenance
07/22/96 09:30 – 07/23/96 15:00	maintenance
08/06/96 09:30 – 08/07/96 14:30	maintenance
08/19/96 11:00 – 08/20/96 15:30	maintenance
09/03/96 11:00 – 09/04/96 14:30	maintenance
09/18/96 15:00 – 09/19/96 13:00	maintenance
09/30/96 10:30 – 10/01/96 14:30	maintenance
10/14/96 13:00 – 10/16/96 13:00	maintenance
10/28/96 10:30 – 11/14/96 12:30	unit malfunction (water in unit)
11/26/96 12:30 – 11/27/96 11:30	maintenance
12/11/96 22:00	battery failure (low power, water in unit)
12/12/96 06:00 – 12/12/96 06:30	battery failure (low power, water in unit)
12/12/96 08:30	battery failure (low power, water in unit)
12/12/96 10:00 – 12/12/96 11:30	battery failure (low power, water in unit)
12/12/96 12:30	battery failure (low power, water in unit)
12/12/96 13:30 – 12/13/96 15:30	maintenance
12/30/96 17:00 – 12/31/96 23:30	unit malfunction (water in unit)

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “All Variables” above

Dissolved Oxygen % & mg/L

05/10/96 16:00 – 05/27/96 16:00 NERR Technician removed erroneous data (probe failure)

07/10/96 14:00 – 07/22/96 09:00 NERR Technician removed erroneous data

Depth

None other than missing data listed in “All Variables” above

pH

07/10/96 14:00 – 08/20/96 15:30 no pH probe in service

Turbidity

01/05/96 12:00 – 01/22/96 14:00 NERR Technician removed erroneous data (water in unit)

01/22/96 20:00 2003 Data Manager removed erroneous data (large negative reading(s))

01/27/96 03:00 2003 Data Manager removed erroneous data (large negative reading(s))

01/27/96 10:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/01/96 05:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/02/96 13:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/04/96 06:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/04/96 08:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/06/96 00:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/06/96 08:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/06/96 09:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/06/96 18:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/06/96 19:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/07/96 06:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/07/96 07:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/07/96 08:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/07/96 09:30 – 02/07/96 10:00 2003 Data Manager removed erroneous data (large negative reading(s))

02/07/96 11:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/07/96 20:30 2003 Data Manager removed erroneous data (large negative reading(s))

02/08/96 08:30 2003 Data Manager removed erroneous data (large negative reading(s))

03/13/96 10:00 2003 Data Manager removed erroneous data (large negative reading(s))

03/14/96 15:30 – 03/28/96 08:30 2003 Data Manager removed erroneous data (deployment period was extremely erratic and consisted of mostly very large negative readings)

03/30/96 17:30 2003 Data Manager removed erroneous data (large negative reading(s))

04/08/96 16:00 2003 Data Manager removed erroneous data (large negative reading(s))

04/17/96 17:00 – 05/27/96 16:00 NERR Technician removed erroneous data (water in bulkhead)

06/11/96 16:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/12/96 10:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/16/96 04:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/16/96 23:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/17/96 00:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/17/96 01:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/17/96 05:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/17/96 07:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/17/96 08:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/19/96 02:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/19/96 05:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/19/96 09:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/22/96 23:00 2003 Data Manager removed erroneous data (large negative reading(s))

06/26/96 23:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/27/96 11:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/28/96 11:30 2003 Data Manager removed erroneous data (large negative reading(s))

06/28/96 14:30	2003 Data Manager removed erroneous data (large negative reading(s))
06/28/96 17:00	2003 Data Manager removed erroneous data (large negative reading(s))
06/29/96 16:00	2003 Data Manager removed erroneous data (large negative reading(s))
06/30/96 12:30	2003 Data Manager removed erroneous data (large negative reading(s))
06/30/96 17:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/01/96 16:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/01/96 19:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/01/96 21:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/02/96 03:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/02/96 06:30 – 07/02/96 07:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/02/96 09:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/02/96 19:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/02/96 23:00 – 07/02/96 23:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/03/96 04:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/03/96 12:30 – 07/03/96 13:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/03/96 21:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/04/96 06:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/04/96 09:30 – 07/04/96 10:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/05/96 13:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/06/96 07:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/06/96 14:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/07/96 22:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/23/96 19:30	2003 Data Manager removed erroneous data (large negative reading(s))
07/29/96 18:00	2003 Data Manager removed erroneous data (large negative reading(s))
07/31/96 22:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/07/96 15:00 – 08/19/96 10:30	2003 Data Manager removed erroneous data (readings were very low and often negative for the entire deployment period, sensor may have been calibrated improperly)
08/27/96 11:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/27/96 20:00 – 08/27/96 20:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/27/96 23:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/28/96 12:00 – 08/28/96 12:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/28/96 18:30 – 08/28/96 20:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/28/96 21:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/28/96 22:00 – 08/28/96 22:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/28/96 23:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/29/96 02:30 – 08/29/96 03:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/29/96 04:00 – 08/29/96 05:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/29/96 12:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/29/96 14:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/30/96 18:30 – 08/30/96 19:00	2003 Data Manager removed erroneous data (large negative reading(s))
08/31/96 06:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/31/96 15:00 – 08/31/96 15:30	2003 Data Manager removed erroneous data (large negative reading(s))
08/31/96 18:00	2003 Data Manager removed erroneous data (large negative reading(s))
09/01/96 00:30 – 09/01/96 01:00	2003 Data Manager removed erroneous data (large negative reading(s))
09/01/96 03:00	2003 Data Manager removed erroneous data (large negative reading(s))
09/01/96 11:30	2003 Data Manager removed erroneous data (large negative reading(s))
09/01/96 13:00	2003 Data Manager removed erroneous data (large negative reading(s))
09/04/96 15:00 – 09/18/96 14:30	2003 Data Manager removed erroneous data (entire deployment period, readings were started very high and declined steadily throughout, some high negative values and spikes over 1000)
10/12/96 21:00	2003 Data Manager removed erroneous data (large negative reading(s))
10/13/96 14:00	2003 Data Manager removed erroneous data (large negative reading(s))
10/23/96 21:30	2003 Data Manager removed erroneous data (large negative reading(s))
11/19/96 23:00	2003 Data Manager removed erroneous data (large negative reading(s))
11/22/96 00:00	2003 Data Manager removed erroneous data (large negative reading(s))

11/28/96 17:30	2003 Data Manager removed erroneous data (large negative reading(s))
12/07/96 07:00	2003 Data Manager removed erroneous data (large negative reading(s))
12/10/96 23:30	2003 Data Manager removed erroneous data (low battery power, large negative often identical readings)
12/11/96 21:30	2003 Data Manager removed erroneous data (low battery power, large negative reading(s))
12/11/96 22:30	2003 Data Manager removed erroneous data (low battery power, large negative reading(s))
12/12/96 09:30	2003 Data Manager removed erroneous data (low battery power, large negative reading(s))
12/22/96 16:00	2003 Data Manager removed erroneous data (large negative reading(s))
12/22/96 17:00	2003 Data Manager removed erroneous data (large negative reading(s))
12/25/96 05:30	2003 Data Manager removed erroneous data (large negative reading(s))
12/25/96 08:00	2003 Data Manager removed erroneous data (large negative reading(s))

1997

All Variables

01/01/97 00:00 – 01/08/97 14:00	maintenance
01/22/97 16:00 – 02/07/97 11:30	maintenance
02/22/97 08:30 – 02/25/97 15:30	maintenance
03/10/97 12:00 – 03/13/97 16:00	maintenance
03/26/97 10:30 – 03/27/97 11:00	maintenance
04/10/97 08:30 – 04/11/97 13:30	maintenance
04/24/97 08:30 – 05/01/97 13:30	maintenance
05/08/97 09:00 – 05/09/97 12:00	maintenance
05/22/97 08:00 – 05/23/97 13:00	maintenance
06/05/97 09:00 – 06/06/97 12:00	maintenance
06/19/97 08:30 – 07/04/97 06:30	maintenance
07/16/97 13:30 – 07/17/97 09:30	maintenance
07/30/97 13:30 – 07/31/97 09:30	maintenance
08/13/97 09:00 – 08/19/97 09:00	maintenance
09/02/97 09:00 – 09/03/97 10:00	maintenance
09/15/97 08:00 – 09/16/97 10:30	maintenance
09/29/97 08:00 – 09/30/97 10:30	maintenance
10/15/97 14:00 – 10/16/97 14:30	maintenance
10/29/97 09:30 – 10/30/97 11:30	maintenance
11/12/97 09:30 – 11/13/97 12:30	maintenance
11/24/97 12:00 – 11/26/97 11:00	maintenance
12/12/97 10:30 – 12/16/97 13:30	maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

03/07/97 15:30 – 03/10/97 11:30	2003 Data Manager removed erroneous data (there was a large discontinuity in the readings on 03/07/97, readings then became erratic with very large values before drifting off to fairly low values until instrument retrieval, probable membrane puncture or tear)
05/09/97 12:30 – 05/22/97 07:30	NERR Technician removed erroneous data (probe failure)
07/17/97 15:00	Data were not recorded (out of range)

Depth

None other than missing data listed in “**All Variables**” above

pH

06/19/97 08:30 – 07/31/97 09:30
07/04/97 07:00 – 07/30/97 13:00 no pH probe in service (Hydrolab)

Turbidity

03/07/97 07:00 2003 Data Manager removed erroneous data (large negative reading(s))
03/08/97 19:00 2003 Data Manager removed erroneous data (large negative reading(s))
03/09/97 06:00 2003 Data Manager removed erroneous data (large negative reading(s))
03/09/97 17:00 2003 Data Manager removed erroneous data (large negative reading(s))
06/19/97 08:30 – 07/31/97 09:30
07/04/97 07:00 – 07/30/97 13:00 no turbidity probe in service (Hydrolab)

1998

All Variables

01/05/98 08:30 – 01/07/98 11:00 maintenance
01/25/98 08:00 – 01/28/98 10:30 maintenance
02/09/98 12:30 – 02/10/98 14:00 maintenance
02/27/98 00:30 – 02/28/98 00:00 maintenance
04/15/98 09:30 – 04/15/98 10:00 maintenance
05/11/98 09:30 – 05/11/98 10:00 recalibrated salinity and SpCond with fresh standard
05/19/98 09:00 – 05/19/98 10:30 maintenance
06/24/98 09:30 – 06/25/98 10:30 maintenance
07/15/98 11:00 – 07/16/98 11:00 maintenance
07/27/98 09:00 – 07/30/98 15:30 maintenance
08/17/98 10:30 – 08/19/98 15:00 maintenance
09/01/98 08:30 – 09/03/98 12:30 maintenance
09/21/98 10:30 – 09/24/98 09:00 maintenance
10/08/98 09:00 – 10/09/98 11:00 maintenance
10/22/98 10:00 – 10/23/98 14:00 maintenance
11/09/98 11:30 – 11/10/98 15:30 maintenance
11/23/98 13:30 – 11/24/98 16:00 maintenance
12/09/98 11:30 – 12/10/98 15:30 maintenance
12/21/98 13:00 – 12/22/98 15:00 maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

04/29/98 12:30 – 05/11/98 09:00 NERR Technician removed erroneous data (probe calibrated in contaminated standard, all affected parameters were removed)

Salinity

04/29/98 12:30 – 05/11/98 09:00 NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)

Dissolved Oxygen %

03/30/98 11:00 – 04/15/98 09:00 NERR Technician removed erroneous data
06/27/98 12:30 NERR Technician removed erroneous data (negative and zero readings)
06/28/98 01:00 – 06/28/98 01:30 NERR Technician removed erroneous data (negative and zero readings)
07/24/98 07:30 – 07/25/98 18:00 NERR Technician removed erroneous data (negative and zero readings)

08/07/98 16:00 – 08/17/98 10:00 2003 Data Manager removed erroneous data (readings became very erratic and climbed to very high values before drifting back down near the end of the deployment period, probable tear in membrane or animal living in probe guard)

08/24/98 20:00 – 08/24/98 22:30 NERR Technician removed erroneous data (negative and zero readings, possibly due to heavy fouling)

08/24/98 23:30 NERR Technician removed erroneous data (negative readings, possibly due to heavy fouling)

08/25/98 09:30 – 08/25/98 10:00 NERR Technician removed erroneous data (negative readings, possibly due to heavy fouling)

09/01/98 08:30 – 09/24/98 09:00

11/23/98 13:30 – 12/10/98 15:30

11/24/98 16:30 – 12/09/98 11:00 NERR Technician removed erroneous data

11/27/98 07:00 – 11/29/98 20:30 NERR Technician removed erroneous data (spikes over 100%, possible puncture in membrane)

Dissolved Oxygen mg/L

03/30/98 11:00 – 04/15/98 09:00 NERR Technician removed erroneous data

04/29/98 12:30 – 05/11/98 09:00 NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)

06/27/98 12:30 NERR Technician removed erroneous data (negative and zero readings)

06/28/98 01:00 – 06/28/98 01:30 NERR Technician removed erroneous data (negative and zero readings)

07/24/98 07:30 – 07/25/98 18:00 NERR Technician removed erroneous data (negative and zero readings)

08/07/98 16:00 – 08/17/98 10:00 2003 Data Manager removed erroneous data (readings became very erratic and climbed to very high values before drifting back down near the end of the deployment period, probable tear in membrane or animal living in probe guard)

08/24/98 20:00 – 08/24/98 22:30 NERR Technician removed erroneous data (negative and zero readings, possibly due to heavy fouling)

08/24/98 23:30 NERR Technician removed erroneous data (negative readings, possibly due to heavy fouling)

08/25/98 09:30 – 08/25/98 10:00 NERR Technician removed erroneous data (negative readings, possibly due to heavy fouling)

11/24/98 16:30 – 12/09/98 11:00 NERR Technician removed erroneous data

11/27/98 07:00 – 11/29/98 20:30 NERR Technician removed erroneous data (spikes over 100%, possible puncture in membrane)

Depth

04/29/98 12:30 – 05/11/98 09:00 NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)

pH

None other than missing data listed in “**All Variables**” above

Turbidity

05/30/98 13:00 – 05/31/98 01:30 2003 Data Manager removed erroneous data (almost all readings for this period were greater than 1000 and were often the same value)

07/10/98 23:30 – 07/15/98 10:30 2003 Data Manager removed erroneous data (readings jumped to a high value and then very gradually declined throughout the rest of the deployment period, readings were often the same value)

08/28/98 10:00 – 09/01/98 08:00 2003 Data Manager removed erroneous data (most readings were -1 for this period, interspersed with occasional large values)

09/10/98 16:00 – 09/14/98 12:30 2003 Data Manager removed erroneous data (most readings for this period were either -2 or greater than 1000, extremely erratic)

10/06/98 07:30 – 10/06/98 14:00 2003 Data Manager removed erroneous data (most readings for this period were either -2 or greater than 1000, extremely erratic)

10/21/98 16:00 – 10/22/98 09:30 2003 Data Manager removed erroneous data (all readings for the remainder of the deployment were greater than 1000)

10/31/98 09:00 – 11/04/98 11:30	2003 Data Manager removed erroneous data (almost all readings for this period were -2, many of the remaining readings were greater than 1000, very erratic)
11/07/98 20:00 – 11/08/98 04:30	2003 Data Manager removed erroneous data (most readings during this period were either -2 or greater than 1000, very erratic)
11/08/98 09:30 – 11/08/98 12:30	2003 Data Manager removed erroneous data (most readings during this period were either -2 or greater than 1000, very erratic)
11/08/98 22:30 – 11/09/98 11:00	2003 Data Manager removed erroneous data (most readings during this period were either -2 or greater than 1000, very erratic)
11/13/98 21:30 – 1/14/98 15:00	2003 Data Manager removed erroneous data (most readings during this period were either -1 or greater than 100, very erratic)
11/18/98 14:00 – 11/23/98 13:00	2003 Data Manager removed erroneous data (most readings throughout the rest of the deployment were either -1 or greater than 1000, very erratic)
12/02/98 13:30 – 12/05/98 03:00	2003 Data Manager removed erroneous data (almost all readings during this period were greater than 1000)

1999

All Variables

01/15/99 10:00 – 01/17/99 14:00	maintenance
02/03/99 12:00 – 02/04/99 14:30	maintenance
02/14/99 15:30 – 02/14/99 16:00	battery failure (low power)
02/15/99 00:00 – 02/24/99 14:30	battery failure (low power)
03/11/99 12:00 – 03/12/99 16:30	maintenance
03/31/99 15:30 – 04/02/99 11:30	maintenance
04/19/99 10:00 – 04/21/99 15:00	maintenance
05/05/99 09:30 – 05/06/99 15:00	maintenance
05/21/99 06:30 – 05/21/99 11:00	battery failure (low power)
05/22/99 07:00 – 05/22/99 10:30	battery failure (low power)
05/24/99 10:00 – 05/25/99 14:00	maintenance
06/14/99 12:30 – 06/17/99 12:30	maintenance
07/05/99 10:30 – 07/07/99 12:30	maintenance
07/19/99 08:30 – 07/22/99 13:30	maintenance
08/11/99 11:00 – 08/13/99 14:30	maintenance
09/01/99 09:00 – 09/03/99 14:00	maintenance
09/22/99 09:00 – 09/24/99 13:30	maintenance
10/13/99 13:30 – 10/16/99 12:30	maintenance
11/03/99 14:00 – 11/04/99 11:00	2003 Data Manager removed erroneous data (probes out of water)
11/04/99 11:30 – 11/04/99 15:30	maintenance
11/23/99 11:30 – 12/14/99 15:00	maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % and mg/L

01/18/99 19:30 – 02/03/99 11:30	2003 Data Manager removed erroneous data (large discontinuity, readings became very erratic and then drifted to extremely low values, sometimes readings remained at nearly the exact same value for long periods and other times exhibited large discontinuities, probable membrane puncture or mud contamination)
04/02/99 12:00 – 04/19/99 09:30	NERR Technician removed erroneous data (mud contamination)
05/06/99 15:30 – 05/21/99 06:00	NERR Technician removed erroneous data (mud contamination)

05/21/99 11:30 – 05/22/99 06:30	NERR Technician removed erroneous data (mud contamination)
05/22/99 11:00 – 05/24/99 09:30	NERR Technician removed erroneous data (mud contamination)
05/27/99 01:30	NERR Technician removed erroneous data (negative readings)
06/05/99 23:00 – 06/14/99 12:00	2003 Data Manager removed erroneous data (large discontinuity, readings became very erratic with very large values that often remained nearly the same, membrane was covered in barnacles at retrieval)
06/17/99 13:00 – 07/05/99 10:00	NERR Technician removed erroneous data (mud contamination)
07/07/99 13:00 – 07/19/99 08:00	NERR Technician removed erroneous data (mud contamination)
08/03/99 19:00 – 08/11/99 10:30	NERR Technician removed erroneous data (erratic readings, greater than 500 and negative)
08/21/99 15:00 – 08/21/99 16:00	NERR Technician removed erroneous data (negative readings)
08/22/99 18:30 – 08/22/99 19:00	NERR Technician removed erroneous data (negative readings)

Depth

None other than missing data listed in “**All Variables**” above

pH

06/17/99 13:00 – 07/19/99 08:00 no pH probe in service

Turbidity

01/20/99 15:00 – 01/24/99 09:30	2003 Data Manager removed erroneous data (almost all readings during this period were greater than 1000)
01/25/99 06:00 – 02/03/99 11:30	2003 Data Manager removed erroneous data (readings during this period remained at the same value repeatedly, indicating a problem with the sensor)
04/02/99 12:00 – 04/19/99 09:30	NERR Technician removed erroneous data (mud contamination)
05/06/99 15:30 – 05/21/99 06:00	NERR Technician removed erroneous data (mud contamination)
05/21/99 11:30 – 05/22/99 06:30	NERR Technician removed erroneous data (mud contamination)
05/22/99 11:00 – 05/24/99 09:30	NERR Technician removed erroneous data (mud contamination)
06/17/99 13:00 – 07/05/99 10:00	NERR Technician removed erroneous data (mud contamination)
07/07/99 13:00 – 07/19/99 08:00	NERR Technician removed erroneous data (mud contamination)

2000

All Variables

01/11/00 12:00 – 01/14/00 11:00
02/03/00 04:30 – 02/09/00 15:30
02/28/00 12:00 – 03/02/00 15:30
03/20/00 10:00 – 03/22/00 15:30
04/07/00 03:30 – 04/14/00 14:00
05/01/00 15:00 – 05/04/00 15:30
05/17/00 09:30 – 05/19/00 13:30
06/07/00 14:00 – 06/10/00 14:30
06/22/00 10:00 – 06/23/00 14:00
07/05/00 09:00 – 07/06/00 13:30
07/17/00 07:30 – 07/18/00 10:00
07/31/00 09:30 – 08/01/00 08:30
08/10/00 17:00 – 08/11/00 16:30
08/22/00 07:30 – 08/22/00 14:30
08/30/00 09:30 – 08/31/00 10:00
09/14/00 10:00 – 09/15/00 07:30
09/22/00 13:00 – 09/23/00 15:30
10/04/00 09:00 – 10/05/00 12:30
10/19/00 10:30 – 10/20/00 14:00
11/08/00 11:00 – 11/09/00 15:30
11/27/00 11:00 – 11/28/00 13:30
12/18/00 11:00 – 12/19/00 15:00

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % and mg/L

04/18/00 04:30 – 04/30/00 23:30 NERR Technician removed erroneous data (probe failure indicated by negative readings)

07/18/00 10:30 – 07/18/00 14:30 2003 Data Manager removed erroneous data (the initial readings for this deployment were very high, probably due to change in temperature or sensor deployment)

08/01/00 09:00 – 08/10/00 16:30 NERR Technician removed erroneous data (probe failure indicated by negative readings)

09/26/00 16:30 – 09/28/00 21:00 2003 Data Manager removed erroneous data (very low and negative, large discontinuity when readings return to “normal”, high turbidity readings during this period as well, possible mud contamination or probe failure)

Depth

None other than missing data listed in “**All Variables**” above

pH

None other than missing data listed in “**All Variables**” above

Turbidity

04/22/00 18:00 – 05/01/00 14:30 NERR Technician removed erroneous data (wiper blade failure)

2001**All Variables**

01/02/01 12:00 – 01/03/01 11:30

01/16/01 10:00 – 01/17/01 11:00

01/29/01 10:30 – 01/30/01 11:30

02/14/01 09:30 – 02/15/01 11:30

02/26/01 13:00 – 02/27/01 09:30

03/13/01 10:30 – 03/14/01 10:00

03/26/01 11:30 – 03/27/01 13:30

04/10/01 11:30 – 04/25/01 12:30

04/11/01 11:00 – 04/23/01 10:00 programming error, no data were collected

05/07/01 10:30 – 05/08/01 14:00

05/23/01 13:00 – 05/24/01 13:00

06/06/01 13:00 – 06/07/01 12:30

06/14/01 12:00 – 06/14/01 12:30 Sonde temporarily deployed for a bathymetric study

06/21/01 10:00 – 06/22/01 12:00

07/05/01 10:00 – 07/06/01 10:30

07/17/01 14:30 – 07/18/01 08:00

07/26/01 13:30 – 07/27/01 12:00

08/07/01 13:00 – 08/08/01 10:00

08/20/01 10:00 – 08/21/01 12:00

09/04/01 10:30 – 09/05/01 12:00

09/17/01 09:00 – 09/18/01 13:30

10/02/01 12:00 – 10/03/01 12:30

10/16/01 08:30 – 10/17/01 12:30

10/31/01 10:00 – 11/01/01 10:30

11/19/01 10:00 – 11/20/01 15:30
12/03/01 09:30 – 12/04/01 16:30
12/17/01 14:30 – 12/18/01 13:30

Temperature

None other then missing data listed in “All Variables” above

Specific Conductivity

None other then missing data listed in “All Variables” above

Salinity

None other then missing data listed in “All Variables” above

Dissolved Oxygen % and mg/L

04/01/01 14:00 – 04/10/01 11:00 NERR Technician removed erroneous data (possible membrane puncture/fouling, extreme change in readings and negative values)

Depth

None other then missing data listed in “All Variables” above

pH

None other then missing data listed in “All Variables” above

Turbidity

04/06/01 10:30 – 04/10/01 11:00 NERR Technician removed erroneous data (wiper blade stuck, algal growth, elevated readings)

2002

All Variables

01/02/02 10:00 – 01/03/02 14:00 maintenance
01/16/02 11:00 – 01/17/02 15:00 maintenance
01/30/02 11:30 – 01/31/02 13:00 maintenance
02/13/02 10:30 – 02/14/02 11:30 maintenance
02/27/02 16:00 – 02/28/02 14:00 maintenance
03/17/02 20:00 – 03/21/02 11:00 maintenance
04/03/02 10:30 – 04/04/02 12:00 maintenance
04/18/02 10:00 – 04/19/02 09:00 maintenance
05/01/02 08:30 – 05/02/02 09:30 maintenance
05/14/02 09:30 – 05/15/02 12:30 maintenance
05/29/02 09:00 – 05/30/02 08:30 maintenance
06/18/02 10:00 – 06/19/02 08:30 maintenance
07/01/02 09:00 – 07/02/02 09:00 maintenance
07/15/02 12:30 – 07/16/02 12:30 maintenance
07/29/02 08:30 – 07/30/00 09:30 maintenance
08/12/02 09:00 – 08/13/02 09:30 maintenance
08/26/02 09:30 – 08/27/02 09:30 maintenance
09/09/02 09:00 – 09/10/02 09:30 maintenance
09/24/02 08:00 – 09/25/02 09:00 maintenance
10/09/02 09:00 – 10/10/02 08:30 maintenance
10/30/02 09:30 – 10/31/02 14:00 maintenance
11/20/02 13:30 – 11/21/02 14:00 maintenance
12/09/02 09:30 – 12/10/02 10:00 maintenance

Temperature

None other then missing data listed in “All Variables” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % and mg/L

04/19/02 09:30 – 04/30/02 23:30 NERR Technician removed erroneous data (suspected probe malfunction, unusually high readings, pre-deployment calibration was stable at a low of 58.4% with DO gain of 1.71, no sign of tears or fouling of the membrane at retrieval)

07/02/02 10:30 – 07/15/02 12:00 NERR Technician removed erroneous data (tear in membrane, data were removed beginning with the estimated point of failure)

Depth

None other than missing data listed in “**All Variables**” above

pH

None other than missing data listed in “**All Variables**” above

Turbidity

03/12/02 17:00 – 03/17/02 19:30 2003 Data Manager removed erroneous data (most readings were greater than 1000 and often the same value, battery power dropped steadily over the deployment until the sonde quit logging data, the sonde was heavily fouled upon retrieval, YSI engineer Mike Lizotte suggested that these readings were typical of a severe fouling event preventing adequate flow through the mesh bag and probe guard)

04/27/02 16:00 – 05/01/02 08:00 NERR Technician removed erroneous data (most readings were greater than 1000, the turbidity wiper was parked partially over the optics at retrieval, data were deleted from the suspected point of malfunction)

06/11/02 19:00 – 06/18/02 09:30 NERR Technician removed erroneous data (many readings were greater than 1000, the sonde was heavily fouled with mud upon retrieval, the wiper arm was parked over the optics, all probes were submerged in about 2.5” of mud built up in the bottom of the probe guard, data were deleted from the suspected point of fouling/malfunction)