

Hudson River (HUD) NERR Meteorological Metadata
January 2005 - December 2005
Latest Update: **October 16, 2023**

I. Data Set & Research Descriptors

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2. Entry verification:

The 15-minute, 1-hour average, and 24-hour data were downloaded from each instrument on the weather station to a Campbell Scientific CR10X datalogger. The CDMO Datalogger Program (NERR_4_1.CSI) was loaded into the CR10X, which controls the sensors and the data collection schedule (see Section 3). For data storage, the CR10X stored the data, via cable, on a Campbell Scientific SM4M storage module. The storage module was manually retrieved on a monthly basis. Using the PC208W software supplied by Campbell Scientific, the data were uploaded from the storage module and stored on a computer in comma-delimited format (.DAT). These raw data files were archived at the CDMO and at the reserve on CD-ROM. Raw data files were then opened in Microsoft Excel and pre-processed using the EQWin Format Macro developed by the CDMO. This macro reformats the header columns, inserts station codes, inserts a date column, corrects the time column format, and reformats the data to an appropriate number of decimal places. The Excel file is then copied into EQWin and the data are QA/QC checked using criteria defined in Section 3 and archived in a database. Queries, reports and graphs are used to discover outliers and large changes in the data. Data that were collected and retained but considered suspect are documented in Section 11. Data that were collected but deleted are documented in Section 12. Missing data are documented in Section 13.

The Research Assistant is responsible for data entry verification.

3. Research objectives:

The objective of this study is to monitor the meteorological conditions at the Tivoli Bays component site of the Hudson River National Estuarine Research Reserve.

Measurements of air temperature, relative humidity, barometric pressure, precipitation, photosynthetically active radiation, and wind speed and direction are taken throughout the year at the Tivoli Bays Field Station. A water quality-monitoring program has been ongoing since 1991 at this component site, and the meteorological data will help provide ancillary data. This will help us to better understand the relationships between the atmospheric conditions and aquatic environments at this site.

4. Research methods:

For routine maintenance, sensors are investigated at least once a month to ensure there is no damage or blockage to the sensors. According to Campbell Scientific, sensors are to be calibrated every two 2 years for proper data collection. After that time, the sensors are removed from the tower, and shipped to their respective manufacturers for proper and professional calibration. In order to avoid missing data, a second set of sensors is calibrated and available to be installed on the tower to continue data collection

For data collection, the CR10X datalogger is programmed to collect data in the following formats:

- i) 15-minute average, maximum and minimum data are averages of 5-second readings for Air Temperature (oC), Relative Humidity (%), Barometric Pressure (mb) and Wind Speed (m/s).
- ii) Hourly average, maximum, and minimum data are averages of 5-second readings for Air Temperature (oC), Relative Humidity (%), Barometric Pressure (mb), Wind Speed (m/s), Wind Direction (degrees). Hourly totals for PAR (mmol/m²) and Precipitation (mm) are totals of 15-minute readings.
- iii) Daily average, maximum and minimum data are averages of 5-second readings for Air Temperature (oC), Relative Humidity (%), Barometric Pressure (mb), Wind Speed (m/s), Wind Direction (degrees). Daily totals for PAR (mmol/m²) and Precipitation (mm) are totals of 15-minute readings.

Data are stored on the Campbell Scientific SM4M storage module as a backup to a PC file appended hourly via serial connection to the CR10X. The data are downloaded and pre-processed as described in Section 2. QA/QC of the data is conducted in EQWin.

Queries are based on the following anomalous data criteria:

Air Temp:

- 15 min sample not greater than max for the day
- 15 min sample not less than the min for the day
- Sample not greater than 50 C or less than -30 C

Relative Humidity:

- Sample not greater than 100% or less than 0%

Pressure:

- Pressure greater than 1060 mb or less than 900 mb

Wind Speed:

- Wind speed greater than 30 m/s
- Wind speed less than 0.5 m/s for 12 consecutive hours

Wind Direction:

- Wind direction not greater than 360 degrees or less than 0 degrees

Rainfall:

- Precipitation not greater than 5 cm in 15 min

Photosynthetically Active Radiation (PAR)

- Sample not greater than 5000 mmol/m² or less than -1.0 mmol/m²

Time:

- 15-minute interval recorded

For all data:

- Duplicate data

Reports, graphs, and statistical analysis are then used to further analyze the data in EQWin.

5. Site location and character:

The Hudson River National Estuarine Research Reserve (HUDNERR) is a multi-component site totaling approximately 5,000 acres. Each component of the reserve is referenced by River Mile (RM) of the Hudson River in New York State proceeding north from the southern tip of Manhattan (RM 0). The reserve includes the following four component sites: Piermont Marsh, Rockland County (RM 24)(41°02'30"N 73°54'15"W), Iona Island, Rockland County (RM 45)(41°18'15"N 73°58'45"W), Tivoli Bays, Dutchess County (RM 98)(42°02'15"N 73°55'10"W), and Stockport Flats, Columbia County (RM 124)(42°02'30"N 73°46'00"W). The four component sites include open water, tidal wetland, and adjacent upland buffer habitats and are representative of the diverse plant and animal communities that occupy the salinity gradient within the Hudson River Estuary. Development within the watersheds of the four component sites ranges from predominantly urban/suburban to forested/agricultural.

The weather station (FS) is located at the Tivoli Bays component site in Annandale, NY (42°01'05.46"N 73°55'01.13"W). A 30 foot, aluminum tower is used to elevate some of the weather monitoring equipment. The tower is on the deck of the office building, on the west side, 9 feet off the ground. The wind anemometer, wind speed, and light sensors are located at the top of the tower, 39 feet off the ground. The datalogger and the barometric pressure sensor are enclosed within a fiberglass case attached to the tower, 12 feet off the ground. A heated rain gauge is next to the tower, attached to the

building, 16 feet off the ground. The temperature/humidity sensor is next to the tower, attached to the deck handrail, 12 feet off the ground. Although trees surround the area, the tree line begins approximately 60 feet from the tower in most directions. The trees are at similar heights to the tower, but the sensors are not shaded at that location. The tower is approximately 1.2 miles Southeast of the Tivoli South Bay water quality monitoring station, 2.3 miles Southeast of the Tivoli North Bay water quality monitoring station, and 0.2 miles Northwest of the Saw Kill Creek water quality monitoring station.

The Hudson River Research Reserve is also a pilot site for a real-time data dissemination via the GOES satellite system. As of 11/14/2005 at 16:30 a Campbell TX-312 transmitter has been operating, sending a data stream available to the public via the NOAA Hydrometeorological Automated Data System (HADS) website : <http://www.nws.noaa.gov/oh/hads/>
Our NESDIS ID: 3B00B4F4; NWSLI ID: ANMN6.

Infrastructure additions during the GOES equipment installation included a larger solar panel and battery, a larger enclosure to house the battery, a Campbell TX-312 transmitter, associated GPS for time synchronization and a Yagi antenna.

6. Data collection period:

Weather data have been collected at the Field Station at Tivoli Bays since July 1999. Weather data were collected for the entire year in 2005.

7. Distribution:

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

NERR weather data and metadata can be obtained from the Research Coordinator at the individual NERR site (please see Section 1 Principal investigators and contact persons), from the Data Manager at the Centralized Data Management Office (please see

personnel directory under the general information link on the CDMO home page) and online at the CDMO home page <http://cdmo.baruch.sc.edu/>. Data are available in text format and as Access data tables.

8. Associated researchers and projects:

The Hudson River NERR water quality-monitoring program examines the physical and chemical constituents of the tributary waters and the tidal waters of the freshwater tidal marshes at the Tivoli Bays component site. Measurements include seston, dissolved oxygen, alkalinity, pH, temperature, salinity, conductivity, and concentrations of nitrate, phosphate, sulfate, and chloride. These data are used to identify long-term trends and to determine the relationship between meteorological conditions and the aquatic environments at this site.

Associated researchers working at the Tivoli Bays component site include scientists from the Institute of Ecosystem Studies in Millbrook, NY, Yale School of Forestry and Environmental Studies in New Haven, CT, Bard College, Annandale-on-Hudson, NY, Simon's Rock College, Great Barrington, MA, Cornell University Center for the Environment, Cornell Institute for Resource Systems, Cornell Department of Natural Resources, Ithaca, NY, State University of New York College of Environmental Science and Forestry, Syracuse, NY and Rensselaer Polytechnic Institute in Troy, NY.

II. Physical Structure Descriptors

9. Sensor specifications, operating range, accuracy, date of last calibration:

Parameter: Temperature

Units: Celsius

Sensor type: Platinum resistance temperature detector (PRT)

Model #: HMP45C Temperature and Relative Humidity Probe

Operating Temperature: -40°C to +60°C

Range: -40°C to +60°C

Accuracy: ± 0.2 °C @ 20°C

Date of Last calibration: August 2005

Parameter: Relative Humidity

Units: Percent

Sensor type: Vaisala HUMICAP® 180 capacitive relative humidity sensor

Model #: HMP45C Temperature and Relative Humidity Probe

Range: 0-100% non-condensing

Accuracy at 20°C: $\pm 2\%$ RH (0-90%) and $\pm 3\%$ (90-100%)

Temperature dependence of RH measurement: $\pm 0.05\%$ RH/°C

Date of Last calibration: August 2005

Parameter: Barometric Sensor

Units: millibars (mb)

Sensor type: Vaisala Barocap © silicon capacitive pressure sensor

Model #: CS-105

Operating Range: Pressure: 600 to 1060 mb; Temperature: -40°C to +60°C;

Humidity: non-condensing

Accuracy: ± 0.5 mb @ 20°C; ± 2 mb @ 0°C to 40°C; ± 4 mb @ -20°C to 45°C; ± 6 mb @ -40°C to 60°C

Stability: ± 0.1 mb per year

Date of Last calibration: March 2004

Parameter: Wind speed

Units: meter per second (m/s)

Sensor type: 18 cm diameter 4-blade helicoids propeller molded of polypropylene

Model #: R.M. Young 05103 Wind Monitor

Range: 0-60 m/s (130 mph); gust survival 100 m/s (220 mph)

Accuracy: $\pm 2\%$

Date of last calibration: November 2004

Parameter: Wind direction

Units: degrees

Sensor type: balanced vane, 38 cm turning radius

Model #: R.M. Young 05103 Wind Monitor

Range: 360° mechanical, 355° electrical (5° open)

Accuracy: $\pm 5\%$

Date of last calibration: November 2004

Parameter: LI-COR Quantum Sensor

Units: mmol m⁻² (total flux)

Sensor type: High stability silicon photovoltaic detector (blue enhanced)

Model #: LI190SB

Light spectrum waveband: 400 to 700 nm

Temperature dependence: 0.15% per °C maximum

Stability: $<\pm 2\%$ change over 1 yr

Operating Temperature: -40°C to 65°C; Humidity: 0 to 100%

Sensitivity: typically 5 μ A per 1000 μ mol s⁻¹ m⁻²

Date of last calibration: February 2005

Parameter: Precipitation (specify if heated rain gauge)

Units: millimeters (mm)

Sensor type: Tipping Bucket Rain Gauge

Model #: TE525

Rainfall per tip: 0.01 inch

Operating range: Temperature: 0° to ± 50 °C; Humidity: 0 to 100%

Accuracy: $\pm 1.0\%$ up to 1 in./hr; +0, -3% from 1 to 2 in./hr; +0, -5% from 2 to 3 in./hr

Date of Last calibration: June 2004

Storage Module

Model #: SM4M

Storage capacity: 2 million low-resolution data values

Program storage: stores up to 8 programs with a total capacity of 128 KB

Processor: Hitachi H8S

Operating system: 64 KB, flash memory based, user downloadable

Operating range: Temperature: -35° to +65°C

Baud rates: 9600, 76800

Memory type: user selectable for either ring style (default) or fill and drop

Power requirements: 5 +/-0.3 VDC @ 100 mA

Transmitter

Model #: TX312

On-board memory: Non-volatile flash for setup parameters. 16 Kbytes for data.

Data Transmission Rates: 100, 300 and 1200 BPS

Transmit Power: 5.6 Watts for 100 and 300 bps, 11.2 watts for 1200 bps

Frequency range: 401.701 MHz – 402.09850 MHz

Channel bandwidth: 100/300 BPS 1.5 KHz; 1200 BPS 3 KHz

Time Keeping: Initial setting accuracy: ± 100 microseconds synchronized to GPS; Drift ± 10 milliseconds/day over operating temperature range; GPS scheduled updates are 1 at power up and once per day thereafter. Once every 28 hours required for continual operation.

Operating range: -40° to +60°C; Storage -50° to +70°C; 0-99% RH, non-condensing

Power requirements: 10.8 to 16 VDC, 5 mA during GPS fix and 2.6 Amps during transmission

Campbell Scientific CR10X Wiring Panel has 128K of flash memory (EEPROM), in which it stores the operating system and its program (that it uses to run the weather station). Additionally, there are 128K of SRAM, which it uses to run the program and store its measurements and for final data storage.

10. Coded variable indicator and variable code definitions:

hudsfsmet- station code

FS - Field Station at Tivoli Bays

11. Data Anomalies:

Arrays:

During 2022 all pre-2007 weather data were revisited by the CDMO. Historically those datasets included 15 minute, hourly (60), and daily data arrays (144). As directed by the NERRS Data Management Committee, the CDMO removed the hourly and daily data arrays leaving only the 15 minute data to make the entire NERRS SWMP weather dataset consistent in its reporting. All references to the 60 and 144 arrays were left in the metadata document as they may still provide valuable information, but users should be aware that they are largely no longer relevant. The updated datasets were uploaded to the database and made available through the various data applications at www.nerrsdata.org/get/landing.cfm throughout the fall of 2022.

January 2005

The PAR sensor began recording extremely high readings on 12/22/2004. These readings were followed by readings of -99999 on 12/23/2004. This pattern reoccurred on 12/29/2004 and 12/30/2004 and again on 12/31/2004 and 01/01/05. The problem was likely due to miscommunication between the PAR sensor and the CR10X caused by corrosion on the wires. Data that were obviously abnormal or -99999 were deleted (see Section 12). The following data appear reasonable, but were recorded during the time period that the PAR sensor appeared to be miscommunicating with the CR10X. The data were left in, but are suspect.

STNCODE	SMPLDATE	SMPLTIME	CLASS
hufdsmet	01/01/2005	00:15 – 16:30	15 and 60

On 02/07/2005 it was discovered that the circuit breaker on the outlet for the rain gauge heater had been tripped. Ice and snow was observed on the screen of the rain gauge on 02/03/05 and on 01/13/2005. On 01/13/2005 the snow and ice was attributed to an ice storm, not melted and re-frozen snow, so the circuit breaker was not checked. It is unknown how long the heater had been inactive. Therefore daily precipitation totals between 01/01/2005 and 01/14/2005 (significant rain event) and between 01/15/2005 and 02/07/2005 (heater activated) may be incorrect, due to gradual melting of snow and ice that accumulated in the funnel or on the screen. However, cumulative totals between these dates are correct. All data were left in. For reference, significant snowfall occurred on 01/05/2005 (first of the season) and 01/22/2005 and significant rainfall occurred on 01/14/2005. Precipitation totals for 01/13/2005 and 02/07/2005 are a result of the technician clearing the screen and dumping the snow and ice into the funnel. Thus, these totals are a result of previous events, no precipitation occurred on these days.

The following 15-min and 60-min relative humidity readings were identified as outliers. The data appear consistent and the causes of the anomalous readings were likely due to the concurrent precipitation event. The following data were left in:

STNCODE	SMPLDATE	SMPLTIME	CLASS	RH
hufdsmet	01/13/2005	24:00	15	101

hudfsmet	01/14/2005	01:00	15	101
hudfsmet	01/14/2005	01:45	15	101
hudfsmet	01/14/2005	02:00	15	101
hudfsmet	01/14/2005	03:30	15	101
hudfsmet	01/14/2005	03:45	15	101
hudfsmet	01/14/2005	04:00	15	101
hudfsmet	01/14/2005	04:00	60	101
hudfsmet	01/14/2005	04:15	15	101
hudfsmet	01/14/2005	04:30	15	101

February 2005

No data anomalies

March 2005

No data anomalies

April 2005

No data anomalies

May 2005

No data anomalies

June 2005

The following 15 minute precipitation data were identified as outliers. These data indicate torrential downpours common at this site. The following precipitation data were left in:

STNCODE	SMPLDATE	SMPLTIME	CLASS	TotPrcp
hudfsmet	06/16/2005	14:00	15	05.3
hudfsmet	06/16/2005	20:00	15	05.8

July 2005

The following 15 minute precipitation data were identified as outliers. These data indicate torrential downpours common at this site. The following precipitation data were left in:

STNCODE	SMPLDATE	SMPLTIME	CLASS	TotPrcp
hudfsmet	07/17/2005	09:45	15	06.4
hudfsmet	07/18/2005	15:45	15	25.4

August 2005

Recurring relative humidity values in excess of 100% plague the Hudson River NERR, likely due to the wooded nature of our site. Several attempts to relocate to probe

throughout 2005 proved unsuccessful. The following data over 100%, apparently caused by condensation on the probe itself were retained as most are within the accuracy of the probe, with values less than or equal to 103%. Those values exceeding 103% were left in by the advice of the CDMO and the discretion of the HRNERR Research Coordinator and Research Assistant.

STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	08/06/2005	06:30	15	101
	08/06/2005	06:45	15	101
	08/06/2005	07:00	60	101
	08/06/2005	07:00	15	101
	08/06/2005	07:15	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/06/2005	07:30	15	101
	08/06/2005	07:45	15	101
	08/06/2005	08:00	60	101
	08/06/2005	08:00	15	101
	08/06/2005	08:15	15	101
	08/06/2005	08:30	15	104
	08/06/2005	08:45	15	104
	08/06/2005	09:00	15	103
	08/06/2005	09:00	60	103
	08/11/2005	05:30	15	101
	08/11/2005	05:45	15	102
	08/13/2005	04:00	15	101
	08/13/2005	04:15	15	102
	08/13/2005	04:30	15	102
	08/13/2005	04:45	15	101
	08/13/2005	05:00	60	101
	08/13/2005	06:00	15	102
	08/13/2005	06:15	15	103
	08/13/2005	06:30	15	103
	08/13/2005	06:45	15	102
	08/13/2005	07:00	15	101
	08/13/2005	07:00	60	102
	08/14/2005	02:15	15	101
	08/14/2005	02:30	15	101
	08/14/2005	02:45	15	102
	08/14/2005	03:00	60	102
	08/14/2005	03:00	15	102
	08/14/2005	03:15	15	102
	08/14/2005	03:30	15	102
	08/14/2005	03:45	15	102
	08/14/2005	04:00	60	102
	08/14/2005	04:00	15	102
	08/14/2005	04:15	15	102
	08/14/2005	04:30	15	103
	08/14/2005	04:45	15	103

	08/14/2005	05:00	60	103
	08/14/2005	05:00	15	103
	08/14/2005	05:15	15	103
	08/14/2005	05:30	15	104
	08/14/2005	05:45	15	104
	08/14/2005	06:00	60	104
	08/14/2005	06:00	15	104
	08/14/2005	06:15	15	104
	08/14/2005	06:30	15	104
	08/14/2005	06:45	15	103
	08/14/2005	07:00	60	102
	08/14/2005	19:00	15	102
	08/14/2005	19:15	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/14/2005	19:30	15	104
	08/14/2005	19:45	15	104
	08/14/2005	20:00	15	103
	08/14/2005	20:00	60	104
	08/14/2005	20:15	15	103
	08/14/2005	20:30	15	103
	08/14/2005	20:45	15	103
	08/14/2005	21:00	15	102
	08/14/2005	21:00	60	103
	08/14/2005	21:15	15	102
	08/14/2005	21:30	15	103
	08/14/2005	21:45	15	103
	08/14/2005	22:00	60	103
	08/14/2005	22:00	15	103
	08/14/2005	22:15	15	103
	08/14/2005	22:30	15	103
	08/14/2005	22:45	15	103
	08/14/2005	23:00	15	103
	08/14/2005	23:00	60	103
	08/14/2005	23:15	15	103
	08/14/2005	23:30	15	103
	08/14/2005	23:45	15	103
	08/14/2005	24:00	15	103
	08/14/2005	24:00	60	103
	08/15/2005	00:15	15	103
	08/15/2005	00:30	15	103
	08/15/2005	00:45	15	104
	08/15/2005	01:00	60	104
	08/15/2005	01:00	15	104
	08/15/2005	01:15	15	104
	08/15/2005	01:30	15	104
	08/15/2005	01:45	15	103
	08/15/2005	02:00	15	103
	08/15/2005	02:00	60	103
	08/15/2005	02:15	15	103

	08/15/2005	02:30	15	103
	08/15/2005	02:45	15	103
	08/15/2005	03:00	15	103
	08/15/2005	03:00	60	103
	08/15/2005	03:15	15	103
	08/15/2005	03:30	15	103
	08/15/2005	03:45	15	103
	08/15/2005	04:00	15	103
	08/15/2005	04:00	60	103
	08/15/2005	04:15	15	103
	08/15/2005	04:30	15	103
	08/15/2005	04:45	15	103
	08/15/2005	05:00	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/15/2005	05:00	60	103
	08/15/2005	05:15	15	103
	08/15/2005	05:30	15	103
	08/15/2005	05:45	15	103
	08/15/2005	06:00	60	103
	08/15/2005	06:00	15	103
	08/15/2005	06:15	15	103
	08/15/2005	06:30	15	103
	08/15/2005	06:45	15	104
	08/15/2005	07:00	60	104
	08/15/2005	07:00	15	105
	08/15/2005	07:15	15	105
	08/15/2005	07:30	15	105
	08/15/2005	07:45	15	105
	08/15/2005	08:00	60	105
	08/15/2005	08:00	15	105
	08/15/2005	08:15	15	104
	08/15/2005	20:15	15	101
	08/15/2005	20:30	15	101
	08/15/2005	20:45	15	101
	08/15/2005	21:00	60	101
	08/15/2005	21:00	15	102
	08/15/2005	21:15	15	103
	08/15/2005	21:30	15	102
	08/15/2005	21:45	15	103
	08/15/2005	22:00	60	103
	08/15/2005	22:00	15	103
	08/15/2005	22:15	15	103
	08/15/2005	22:30	15	103
	08/15/2005	22:45	15	103
	08/15/2005	23:00	15	103
	08/15/2005	23:00	60	103
	08/15/2005	23:15	15	104
	08/15/2005	23:30	15	103
	08/15/2005	23:45	15	103

	08/15/2005	24:00	15	103
	08/15/2005	24:00	60	103
	08/16/2005	00:15	15	103
	08/16/2005	00:30	15	104
	08/16/2005	00:45	15	104
	08/16/2005	01:00	15	103
	08/16/2005	01:00	60	104
	08/16/2005	01:15	15	103
	08/16/2005	01:30	15	103
	08/16/2005	01:45	15	103
	08/16/2005	02:00	60	103
	08/16/2005	02:00	15	103
	08/16/2005	02:15	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/16/2005	02:30	15	103
	08/16/2005	02:45	15	102
	08/16/2005	03:00	15	101
	08/16/2005	03:00	60	102
	08/16/2005	03:30	15	101
	08/16/2005	03:45	15	101
	08/16/2005	04:00	60	101
	08/16/2005	04:00	15	101
	08/16/2005	04:15	15	102
	08/16/2005	04:30	15	101
	08/16/2005	21:00	15	101
	08/16/2005	21:15	15	102
	08/16/2005	21:30	15	101
	08/16/2005	22:00	60	101
	08/16/2005	22:45	15	101
	08/16/2005	23:00	60	101
	08/16/2005	23:00	15	102
	08/16/2005	23:15	15	103
	08/16/2005	23:30	15	104
	08/16/2005	23:45	15	104
	08/16/2005	24:00	60	104
	08/16/2005	24:00	15	104
	08/17/2005	00:15	15	104
	08/17/2005	00:30	15	104
	08/17/2005	00:45	15	104
	08/17/2005	01:00	60	104
	08/17/2005	01:00	15	104
	08/17/2005	01:15	15	104
	08/17/2005	01:30	15	104
	08/17/2005	01:45	15	104
	08/17/2005	02:00	15	104
	08/17/2005	02:00	60	104
	08/17/2005	02:15	15	104
	08/17/2005	02:30	15	104
	08/17/2005	02:45	15	104

	08/17/2005	03:00	15	104
	08/17/2005	03:00	60	104
	08/17/2005	03:15	15	104
	08/17/2005	03:30	15	104
	08/17/2005	03:45	15	104
	08/17/2005	04:00	60	104
	08/17/2005	04:00	15	104
	08/17/2005	04:15	15	104
	08/17/2005	04:30	15	104
	08/17/2005	04:45	15	104
	08/17/2005	05:00	15	104
	08/17/2005	05:00	60	104
	08/17/2005	05:15	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/17/2005	05:30	15	104
	08/17/2005	05:45	15	104
	08/17/2005	06:00	15	104
	08/17/2005	06:00	60	104
	08/17/2005	06:15	15	104
	08/17/2005	06:30	15	104
	08/17/2005	06:45	15	103
	08/17/2005	07:00	15	103
	08/17/2005	07:00	60	104
	08/17/2005	07:15	15	103
	08/17/2005	07:30	15	103
	08/17/2005	07:45	15	103
	08/17/2005	08:00	60	103
	08/17/2005	08:00	15	103
	08/17/2005	08:15	15	103
	08/17/2005	08:30	15	104
	08/20/2005	08:00	15	102
	08/20/2005	08:15	15	102
	08/20/2005	08:30	15	103
	08/20/2005	08:45	15	103
	08/20/2005	09:00	60	103
	08/20/2005	09:00	15	103
	08/20/2005	09:15	15	103
	08/20/2005	09:30	15	103
	08/20/2005	09:45	15	102
	08/20/2005	10:00	15	102
	08/20/2005	10:00	60	102
	08/20/2005	10:15	15	102
	08/20/2005	10:30	15	102
	08/20/2005	10:45	15	102
	08/20/2005	11:00	15	102
	08/20/2005	11:00	60	102
	08/20/2005	11:15	15	102
	08/20/2005	11:30	15	102
	08/20/2005	11:45	15	102

	08/20/2005	12:00	15	102
	08/20/2005	12:00	60	102
	08/20/2005	12:15	15	101
	08/22/2005	06:15	15	101
	08/25/2005	06:00	15	101
	08/25/2005	06:15	15	101
	08/25/2005	06:30	15	101
	08/25/2005	06:45	15	102
	08/25/2005	07:00	15	101
	08/25/2005	07:00	60	101
	08/28/2005	08:30	15	101
	08/28/2005	08:45	15	102
	08/28/2005	09:00	60	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/28/2005	09:00	15	103
	08/28/2005	09:15	15	103
	08/28/2005	09:30	15	103
	08/28/2005	09:45	15	102
	08/28/2005	10:00	60	103
	08/28/2005	10:00	15	103
	08/28/2005	10:15	15	103
	08/28/2005	10:30	15	103
	08/28/2005	10:45	15	102
	08/28/2005	11:00	15	101
	08/28/2005	11:00	60	102
	08/28/2005	11:15	15	101
	08/28/2005	12:15	15	101
	08/28/2005	12:30	15	102
	08/28/2005	13:00	60	101
	08/28/2005	18:15	15	102
	08/28/2005	18:30	15	103
	08/28/2005	18:45	15	102
	08/28/2005	19:00	60	102
	08/28/2005	19:00	15	102
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	08/28/2005	19:30	15	103
	08/28/2005	19:45	15	104
	08/28/2005	20:00	60	103
	08/28/2005	20:00	15	104
	08/28/2005	20:15	15	104
	08/28/2005	20:30	15	103
	08/28/2005	20:45	15	104
	08/28/2005	21:00	60	104
	08/28/2005	21:00	15	104
	08/28/2005	21:15	15	104
	08/28/2005	21:30	15	104
	08/28/2005	21:45	15	104
	08/28/2005	22:00	15	104
	08/28/2005	22:00	60	104

	08/28/2005	22:15	15	104
	08/28/2005	22:30	15	104
	08/28/2005	22:45	15	104
	08/28/2005	23:00	15	104
	08/28/2005	23:00	60	104
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	08/28/2005	23:45	15	103
	08/28/2005	24:00	15	103
	08/28/2005	24:00	60	103
	08/29/2005	00:15	15	103
	08/29/2005	00:30	15	103
	08/29/2005	00:45	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	08/29/2005	01:00	60	103
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	08/29/2005	02:00	60	103
	08/29/2005	02:00	15	103
	08/29/2005	02:15	15	103
	08/29/2005	02:30	15	103
	08/29/2005	02:45	15	103
	08/29/2005	03:00	60	103
	08/29/2005	03:00	15	103
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	08/29/2005	05:00	15	103
	08/29/2005	05:00	60	103
	08/29/2005	05:15	15	103
	08/29/2005	05:30	15	103
	08/29/2005	05:45	15	103
	08/29/2005	06:00	15	103
	08/29/2005	06:00	60	103
	08/29/2005	06:15	15	103
	08/29/2005	06:30	15	103
	08/29/2005	06:45	15	103
	08/29/2005	07:00	15	103
	08/29/2005	07:00	60	103
	08/29/2005	07:15	15	103
	08/29/2005	07:30	15	104
	08/29/2005	07:45	15	104

	08/29/2005	08:00	60	104
	08/29/2005	08:00	15	105
	08/29/2005	08:15	15	105
	08/29/2005	08:30	15	104
	08/29/2005	08:45	15	102
	08/29/2005	09:00	60	103
	08/30/2005	00:45	15	101
	08/30/2005	01:00	60	101
	08/30/2005	01:00	15	102
	08/30/2005	01:15	15	104
	08/30/2005	01:30	15	104
	08/30/2005	01:45	15	104
	08/30/2005	02:00	60	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/30/2005	02:00	15	104
	08/30/2005	02:15	15	104
	08/30/2005	02:30	15	104
	08/30/2005	02:45	15	104
	08/30/2005	03:00	60	104
	08/30/2005	03:00	15	104
	08/30/2005	03:15	15	104
	08/30/2005	03:30	15	104
	08/30/2005	03:45	15	104
	08/30/2005	04:00	15	104
	08/30/2005	04:00	60	104
	08/30/2005	04:15	15	104
	08/30/2005	04:30	15	104
	08/30/2005	04:45	15	104
	08/30/2005	05:00	15	104
	08/30/2005	05:00	60	104
	08/30/2005	05:15	15	104
	08/30/2005	05:30	15	104
	08/30/2005	05:45	15	104
	08/30/2005	06:00	15	103
	08/30/2005	06:00	60	104
	08/30/2005	06:15	15	103
	08/30/2005	06:30	15	103
	08/30/2005	06:45	15	103
	08/30/2005	07:00	15	103
	08/30/2005	07:00	60	103
	08/30/2005	07:15	15	103
	08/30/2005	07:30	15	103
	08/30/2005	07:45	15	103
	08/30/2005	08:00	15	103
	08/30/2005	08:00	60	103
	08/30/2005	08:15	15	103
	08/30/2005	08:30	15	103
	08/30/2005	08:45	15	103
	08/30/2005	09:00	60	103

	08/30/2005	09:00	15	103
	08/30/2005	09:15	15	103
	08/30/2005	09:30	15	103
	08/30/2005	09:45	15	103
	08/30/2005	10:00	60	103
	08/30/2005	10:00	15	103
	08/30/2005	10:15	15	104
	08/30/2005	10:30	15	104
	08/30/2005	10:45	15	104
	08/30/2005	11:00	60	104
	08/30/2005	11:00	15	104
	08/30/2005	11:15	15	104
	08/30/2005	11:30	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/30/2005	11:45	15	103
	08/30/2005	12:00	60	103
	08/30/2005	12:00	15	104
	08/30/2005	12:15	15	105
	08/30/2005	12:30	15	105
	08/30/2005	12:45	15	105
	08/30/2005	13:00	15	105
	08/30/2005	13:00	60	105
	08/30/2005	13:15	15	104
	08/30/2005	13:30	15	103
	08/30/2005	13:45	15	103
	08/30/2005	14:00	60	103
	08/30/2005	16:00	15	101
	08/30/2005	16:15	15	102
	08/30/2005	16:30	15	103
	08/30/2005	16:45	15	103
	08/30/2005	17:00	60	103
	08/30/2005	17:00	15	104
	08/30/2005	17:15	15	104
	08/30/2005	17:30	15	104
	08/30/2005	17:45	15	104
	08/30/2005	18:00	60	104
	08/30/2005	18:00	15	104
	08/30/2005	18:15	15	104
	08/30/2005	18:30	15	105
	08/30/2005	18:45	15	105
	08/30/2005	19:00	60	105
	08/30/2005	19:00	15	105
	08/30/2005	19:15	15	105
	08/30/2005	19:30	15	105
	08/30/2005	19:45	15	105
	08/30/2005	20:00	15	105
	08/30/2005	20:00	60	105
	08/30/2005	20:15	15	105
	08/30/2005	20:30	15	105

	08/30/2005	20:45	15	104
	08/30/2005	21:00	15	104
	08/30/2005	21:00	60	104
	08/30/2005	21:15	15	104
	08/30/2005	21:30	15	104
	08/30/2005	21:45	15	104
	08/30/2005	22:00	60	104
	08/30/2005	22:00	15	104
	08/30/2005	22:15	15	104
	08/30/2005	22:30	15	104
	08/30/2005	22:45	15	104
	08/30/2005	23:00	15	104
	08/30/2005	23:00	60	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	08/30/2005	23:15	15	104
	08/30/2005	23:30	15	105
	08/30/2005	23:45	15	101
	08/30/2005	24:00	60	102
	08/30/2005	24:00	144	103
	08/31/2005	01:15	15	101
	08/31/2005	01:30	15	101
	08/31/2005	01:45	15	102
	08/31/2005	02:00	60	102
	08/31/2005	02:00	15	102
	08/31/2005	02:15	15	102
	08/31/2005	02:30	15	103
	08/31/2005	02:45	15	104
	08/31/2005	03:00	60	103
	08/31/2005	03:00	15	104
	08/31/2005	03:15	15	103
	08/31/2005	03:30	15	103
	08/31/2005	03:45	15	104
	08/31/2005	04:00	60	104
	08/31/2005	04:00	15	105
	08/31/2005	04:15	15	105
	08/31/2005	04:30	15	104
	08/31/2005	04:45	15	104
	08/31/2005	05:00	15	105
	08/31/2005	05:00	60	105
	08/31/2005	05:15	15	104
	08/31/2005	05:30	15	102
	08/31/2005	05:45	15	101
	08/31/2005	06:00	60	102

September 2005

Recurring relative humidity values in excess of 100% plague the Hudson River NERR, likely due to the wooded nature of our site. Several attempts to relocate to probe throughout 2005 proved unsuccessful. The following data over 100%, apparently caused by condensation on the probe itself were retained as most are within the accuracy of the probe, with values less than or equal to 103%. Those values exceeding 103% were left in by the advice of the CDMO and the discretion of the HRNERR Research Coordinator and Research Assistant.

STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	09/01/2005	02:15	15	101
	09/01/2005	02:30	15	101
	09/01/2005	03:00	60	101
	09/01/2005	03:00	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/01/2005	03:15	15	102
	09/01/2005	03:30	15	103
	09/01/2005	03:45	15	102
	09/01/2005	04:00	60	102
	09/01/2005	04:00	15	102
	09/01/2005	04:15	15	103
	09/01/2005	04:30	15	103
	09/01/2005	04:45	15	104
	09/01/2005	05:00	60	103
	09/01/2005	05:00	15	104
	09/01/2005	05:15	15	104
	09/01/2005	05:30	15	104
	09/01/2005	05:45	15	104
	09/01/2005	06:00	60	104
	09/01/2005	06:00	15	104
	09/01/2005	06:15	15	104
	09/01/2005	06:30	15	104
	09/01/2005	06:45	15	104
	09/01/2005	07:00	60	104
	09/01/2005	07:00	15	104
	09/01/2005	23:30	15	101
	09/01/2005	23:45	15	102
	09/01/2005	24:00	60	101
	09/01/2005	24:00	15	102
	09/02/2005	00:15	15	101
	09/02/2005	00:30	15	102
	09/02/2005	00:45	15	102
	09/02/2005	01:00	60	102
	09/02/2005	01:00	15	103
	09/02/2005	01:15	15	103
	09/02/2005	01:30	15	103
	09/02/2005	01:45	15	103

	09/02/2005	02:00	15	103
	09/02/2005	02:00	60	103
	09/02/2005	02:15	15	103
	09/02/2005	02:30	15	103
	09/02/2005	02:45	15	103
	09/02/2005	03:00	15	103
	09/02/2005	03:00	60	103
	09/02/2005	03:15	15	103
	09/02/2005	03:30	15	102
	09/02/2005	03:45	15	101
	09/02/2005	04:00	60	102
	09/02/2005	04:00	15	102
	09/02/2005	04:15	15	103
	09/02/2005	04:30	15	103
	09/02/2005	04:45	15	102
	09/02/2005	05:00	15	102
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/02/2005	05:00	60	102
	09/04/2005	06:00	15	101
	09/04/2005	06:45	15	101
	09/04/2005	07:00	60	101
	09/04/2005	07:00	15	102
	09/04/2005	07:15	15	102
	09/04/2005	07:30	15	103
	09/04/2005	07:45	15	102
	09/04/2005	08:00	60	101
	09/06/2005	02:15	15	101
	09/06/2005	02:30	15	101
	09/06/2005	02:45	15	101
	09/06/2005	03:00	60	101
	09/06/2005	05:15	15	101
	09/06/2005	05:30	15	102
	09/06/2005	05:45	15	102
	09/06/2005	06:00	60	102
	09/06/2005	06:00	15	102
	09/06/2005	06:15	15	102
	09/06/2005	06:30	15	102
	09/06/2005	06:45	15	101
	09/06/2005	07:00	15	101
	09/06/2005	07:00	60	102
	09/06/2005	07:15	15	101
	09/06/2005	07:30	15	102
	09/06/2005	07:45	15	103
	09/06/2005	08:00	15	101
	09/06/2005	08:00	60	102
	09/07/2005	04:30	15	101
	09/07/2005	04:45	15	101
	09/07/2005	05:00	15	101
	09/07/2005	05:15	15	101

	09/07/2005	05:30	15	101
	09/07/2005	05:45	15	101
	09/07/2005	06:00	60	101
	09/07/2005	06:00	15	102
	09/07/2005	06:15	15	102
	09/07/2005	06:30	15	102
	09/07/2005	06:45	15	102
	09/07/2005	07:00	60	102
	09/07/2005	07:00	15	102
	09/07/2005	07:15	15	101
	09/08/2005	07:15	15	101
	09/10/2005	06:30	15	101
	09/10/2005	06:45	15	101
	09/10/2005	07:00	15	101
	09/13/2005	04:00	15	101
	09/13/2005	04:15	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	09/13/2005	05:15	15	101
	09/13/2005	05:30	15	101
	09/13/2005	05:45	15	101
	09/13/2005	06:00	15	101
	09/13/2005	06:00	60	101
	09/13/2005	06:15	15	101
	09/13/2005	06:30	15	101
	09/13/2005	06:45	15	101
	09/13/2005	07:00	60	101
	09/14/2005	06:45	15	101
	09/14/2005	23:45	15	101
	09/15/2005	00:15	15	101
	09/15/2005	00:30	15	103
	09/15/2005	00:45	15	103
	09/15/2005	01:00	60	103
	09/15/2005	01:00	15	104
	09/15/2005	01:15	15	104
	09/15/2005	01:30	15	104
	09/15/2005	01:45	15	104
	09/15/2005	02:00	60	104
	09/15/2005	02:00	15	104
	09/15/2005	02:15	15	104
	09/15/2005	02:30	15	104
	09/15/2005	02:45	15	104
	09/15/2005	03:00	15	104
	09/15/2005	03:00	60	104
	09/15/2005	03:15	15	104
	09/15/2005	03:30	15	104
	09/15/2005	03:45	15	104
	09/15/2005	04:00	15	104
	09/15/2005	04:00	60	104

	09/15/2005	04:15	15	104
	09/15/2005	04:30	15	103
	09/15/2005	04:45	15	103
	09/15/2005	05:00	15	103
	09/15/2005	05:00	60	103
	09/15/2005	05:15	15	103
	09/15/2005	05:30	15	103
	09/15/2005	05:45	15	103
	09/15/2005	06:00	60	103
	09/15/2005	06:00	15	104
	09/15/2005	06:15	15	104
	09/15/2005	06:30	15	104
	09/15/2005	06:45	15	104
	09/15/2005	07:00	60	104
	09/15/2005	07:00	15	104
	09/15/2005	07:15	15	105
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/15/2005	07:30	15	104
	09/15/2005	07:45	15	104
	09/15/2005	08:00	60	105
	09/15/2005	08:00	15	105
	09/15/2005	08:15	15	105
	09/15/2005	08:30	15	105
	09/15/2005	08:45	15	103
	09/15/2005	09:00	60	103
	09/15/2005	16:45	15	103
	09/15/2005	17:00	15	104
	09/15/2005	17:15	15	104
	09/15/2005	17:30	15	103
	09/15/2005	17:45	15	103
	09/15/2005	18:00	15	103
	09/15/2005	18:00	60	103
	09/15/2005	18:15	15	104
	09/15/2005	18:30	15	104
	09/15/2005	18:45	15	104
	09/15/2005	19:00	60	104
	09/15/2005	19:00	15	104
	09/15/2005	19:15	15	104
	09/15/2005	19:30	15	104
	09/15/2005	19:45	15	104
	09/15/2005	20:00	15	104
	09/15/2005	20:00	60	104
	09/15/2005	20:15	15	104
	09/15/2005	20:30	15	104
	09/15/2005	20:45	15	104
	09/15/2005	21:00	15	104
	09/15/2005	21:00	60	104
	09/15/2005	21:15	15	104
	09/15/2005	21:30	15	104

	09/15/2005	21:45	15	104
	09/15/2005	22:00	60	104
	09/15/2005	22:00	15	104
	09/15/2005	22:15	15	104
	09/15/2005	22:30	15	104
	09/15/2005	22:45	15	104
	09/15/2005	23:00	15	104
	09/15/2005	23:00	60	104
	09/15/2005	23:15	15	104
	09/15/2005	23:30	15	104
	09/15/2005	23:45	15	103
	09/15/2005	24:00	15	103
	09/15/2005	24:00	60	103
	09/16/2005	00:15	15	103
	09/16/2005	00:30	15	103
	09/16/2005	00:45	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	09/16/2005	01:00	60	103
	09/16/2005	01:15	15	103
	09/16/2005	01:30	15	103
	09/16/2005	01:45	15	103
	09/16/2005	02:00	60	103
	09/16/2005	02:00	15	103
	09/16/2005	02:15	15	103
	09/16/2005	02:30	15	103
	09/16/2005	02:45	15	103
	09/16/2005	03:00	15	103
	09/16/2005	03:00	60	103
	09/16/2005	03:15	15	103
	09/16/2005	03:30	15	102
	09/16/2005	03:45	15	102
	09/16/2005	04:00	15	102
	09/16/2005	04:00	60	102
	09/16/2005	04:15	15	102
	09/16/2005	04:30	15	102
	09/16/2005	04:45	15	102
	09/16/2005	05:00	60	102
	09/16/2005	05:00	15	102
	09/16/2005	05:15	15	102
	09/16/2005	05:30	15	102
	09/16/2005	05:45	15	103
	09/16/2005	06:00	60	102
	09/16/2005	06:00	15	103
	09/16/2005	06:15	15	103
	09/16/2005	06:30	15	103
	09/16/2005	06:45	15	103
	09/16/2005	07:00	60	103
	09/16/2005	07:00	15	103

	09/16/2005	07:15	15	103
	09/16/2005	07:30	15	104
	09/16/2005	07:45	15	104
	09/16/2005	08:00	60	104
	09/16/2005	08:00	15	104
	09/16/2005	08:15	15	105
	09/16/2005	08:30	15	104
	09/16/2005	08:45	15	104
	09/16/2005	09:00	15	103
	09/16/2005	09:00	60	104
	09/16/2005	09:15	15	101
	09/16/2005	21:30	15	102
	09/16/2005	21:45	15	103
	09/16/2005	22:00	60	102
	09/16/2005	22:00	15	103
	09/16/2005	22:15	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/16/2005	22:30	15	102
	09/16/2005	22:45	15	102
	09/16/2005	23:00	60	102
	09/16/2005	23:00	15	103
	09/16/2005	23:15	15	102
	09/16/2005	23:30	15	102
	09/16/2005	23:45	15	102
	09/16/2005	24:00	60	102
	09/16/2005	24:00	15	102
	09/17/2005	00:15	15	103
	09/17/2005	00:30	15	103
	09/17/2005	00:45	15	104
	09/17/2005	01:00	60	103
	09/17/2005	01:00	15	104
	09/17/2005	01:15	15	104
	09/17/2005	01:30	15	104
	09/17/2005	01:45	15	103
	09/17/2005	02:00	60	104
	09/17/2005	02:00	15	104
	09/17/2005	02:15	15	104
	09/17/2005	02:30	15	104
	09/17/2005	02:45	15	104
	09/17/2005	03:00	60	104
	09/17/2005	03:00	15	104
	09/17/2005	03:15	15	104
	09/17/2005	03:30	15	104
	09/17/2005	03:45	15	104
	09/17/2005	04:00	15	104
	09/17/2005	04:00	60	104
	09/17/2005	04:15	15	104
	09/17/2005	04:30	15	103
	09/17/2005	04:45	15	104

	09/17/2005	05:00	15	103
	09/17/2005	05:00	60	103
	09/17/2005	05:15	15	103
	09/17/2005	05:30	15	103
	09/17/2005	05:45	15	103
	09/17/2005	06:00	60	103
	09/17/2005	06:00	15	103
	09/17/2005	06:15	15	102
	09/17/2005	06:30	15	101
	09/17/2005	07:00	60	101
	09/17/2005	14:00	15	104
	09/17/2005	14:15	15	105
	09/17/2005	14:30	15	105
	09/17/2005	14:45	15	105
	09/17/2005	15:00	60	105
	09/17/2005	15:00	15	105
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/17/2005	15:15	15	104
	09/17/2005	15:30	15	104
	09/17/2005	15:45	15	104
	09/17/2005	16:00	60	104
	09/17/2005	16:00	15	104
	09/17/2005	16:15	15	105
	09/17/2005	16:30	15	105
	09/17/2005	16:45	15	105
	09/17/2005	17:00	15	105
	09/17/2005	17:00	60	105
	09/17/2005	17:15	15	105
	09/17/2005	17:30	15	105
	09/17/2005	17:45	15	105
	09/17/2005	18:00	15	105
	09/17/2005	18:00	60	105
	09/17/2005	18:15	15	105
	09/17/2005	18:30	15	104
	09/17/2005	18:45	15	104
	09/17/2005	19:00	15	104
	09/17/2005	19:00	60	104
	09/17/2005	19:15	15	104
	09/17/2005	19:30	15	104
	09/17/2005	19:45	15	104
	09/17/2005	20:00	60	104
	09/17/2005	20:00	15	104
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	09/17/2005	20:30	15	104
	09/17/2005	20:45	15	104
	09/17/2005	21:00	15	104
	09/17/2005	21:00	60	104
	09/17/2005	21:15	15	104
	09/17/2005	21:30	15	103

	09/17/2005	21:45	15	103
	09/17/2005	22:00	15	103
	09/17/2005	22:00	60	103
	09/17/2005	22:15	15	103
	09/17/2005	22:30	15	103
	09/17/2005	22:45	15	103
	09/17/2005	23:00	60	103
	09/17/2005	23:00	15	103
	09/17/2005	23:15	15	104
	09/17/2005	23:30	15	104
	09/17/2005	23:45	15	104
	09/17/2005	24:00	15	104
	09/17/2005	24:00	60	104
	09/18/2005	00:15	15	104
	09/18/2005	00:30	15	104
	09/18/2005	00:45	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/18/2005	01:00	15	103
	09/18/2005	01:00	60	104
	09/18/2005	01:15	15	104
	09/18/2005	01:30	15	104
	09/18/2005	01:45	15	103
	09/18/2005	02:00	15	103
	09/18/2005	02:00	60	103
	09/18/2005	02:15	15	103
	09/18/2005	02:30	15	103
	09/18/2005	02:45	15	103
	09/18/2005	03:00	15	103
	09/18/2005	03:00	60	103
	09/18/2005	03:15	15	103
	09/18/2005	03:30	15	103
	09/18/2005	03:45	15	103
	09/18/2005	04:00	15	103
	09/18/2005	04:00	60	103
	09/18/2005	04:15	15	103
	09/18/2005	04:30	15	103
	09/18/2005	04:45	15	103
	09/18/2005	05:00	15	103
	09/18/2005	05:00	60	103
	09/18/2005	05:15	15	103
	09/18/2005	05:30	15	103
	09/18/2005	05:45	15	103
	09/18/2005	06:00	15	103
	09/18/2005	06:00	60	103
	09/18/2005	06:15	15	103
	09/18/2005	06:30	15	103
	09/18/2005	06:45	15	104
	09/18/2005	07:00	60	104
	09/18/2005	07:00	15	105

	09/18/2005	07:15	15	105
	09/18/2005	07:30	15	105
	09/18/2005	07:45	15	104
	09/18/2005	08:00	15	104
	09/18/2005	08:00	60	104
	09/18/2005	08:15	15	105
	09/18/2005	08:30	15	105
	09/18/2005	08:45	15	105
	09/18/2005	09:00	15	104
	09/18/2005	09:00	60	104
	09/18/2005	21:00	15	101
	09/18/2005	21:15	15	102
	09/18/2005	21:30	15	102
	09/18/2005	21:45	15	103
	09/18/2005	22:00	60	103
	09/18/2005	22:00	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/18/2005	22:15	15	103
	09/18/2005	22:30	15	104
	09/18/2005	22:45	15	104
	09/18/2005	23:00	60	104
	09/18/2005	23:00	15	104
	09/18/2005	23:15	15	104
	09/18/2005	23:30	15	104
	09/18/2005	23:45	15	104
	09/18/2005	24:00	60	104
	09/18/2005	24:00	15	104
	09/19/2005	00:15	15	104
	09/19/2005	00:30	15	104
	09/19/2005	00:45	15	104
	09/19/2005	01:00	60	104
	09/19/2005	01:00	15	104
	09/19/2005	01:15	15	104
	09/19/2005	01:30	15	104
	09/19/2005	01:45	15	104
	09/19/2005	02:00	15	104
	09/19/2005	02:00	60	104
	09/19/2005	02:15	15	104
	09/19/2005	02:30	15	104
	09/19/2005	02:45	15	104
	09/19/2005	03:00	15	104
	09/19/2005	03:00	60	104
	09/19/2005	03:15	15	104
	09/19/2005	03:30	15	104
	09/19/2005	03:45	15	104
	09/19/2005	04:00	15	104
	09/19/2005	04:00	60	104
	09/19/2005	04:15	15	104
	09/19/2005	04:30	15	104

	09/19/2005	04:45	15	104
	09/19/2005	05:00	60	104
	09/19/2005	05:00	15	104
	09/19/2005	05:15	15	104
	09/19/2005	05:30	15	104
	09/19/2005	05:45	15	104
	09/19/2005	06:00	15	104
	09/19/2005	06:00	60	104
	09/19/2005	06:15	15	104
	09/19/2005	06:30	15	104
	09/19/2005	06:45	15	104
	09/19/2005	07:00	15	104
	09/19/2005	07:00	60	104
	09/19/2005	07:15	15	104
	09/19/2005	07:30	15	104
	09/19/2005	07:45	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/19/2005	08:00	15	104
	09/19/2005	08:00	60	104
	09/19/2005	08:15	15	101
	09/19/2005	21:30	15	102
	09/19/2005	21:45	15	102
	09/19/2005	22:00	60	101
	09/19/2005	22:00	15	102
	09/19/2005	22:15	15	102
	09/19/2005	22:30	15	102
	09/19/2005	22:45	15	102
	09/19/2005	23:00	60	102
	09/19/2005	23:00	15	103
	09/19/2005	23:15	15	102
	09/19/2005	23:30	15	102
	09/19/2005	23:45	15	102
	09/19/2005	24:00	60	102
	09/19/2005	24:00	15	103
	09/20/2005	00:15	15	101
	09/20/2005	00:30	15	101
	09/20/2005	00:45	15	101
	09/20/2005	01:00	15	101
	09/20/2005	01:00	60	101
	09/20/2005	01:15	15	101
	09/20/2005	01:30	15	102
	09/20/2005	01:45	15	101
	09/20/2005	03:15	15	101
	09/20/2005	03:30	15	101
	09/20/2005	22:15	15	101
	09/20/2005	22:30	15	101
	09/21/2005	01:30	15	101
	09/21/2005	02:15	15	101
	09/21/2005	02:30	15	101

	09/21/2005	02:45	15	102
	09/21/2005	03:00	60	102
	09/21/2005	03:00	15	103
	09/21/2005	03:15	15	103
	09/26/2005	17:30	15	101
	09/26/2005	17:45	15	101
	09/26/2005	18:00	60	101
	09/26/2005	18:00	15	102
	09/26/2005	18:15	15	102
	09/26/2005	18:30	15	103
	09/26/2005	18:45	15	103
	09/26/2005	19:00	60	103
	09/26/2005	19:00	15	103
	09/26/2005	19:15	15	103
	09/26/2005	19:30	15	103
	09/26/2005	19:45	15	102
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/26/2005	20:00	15	102
	09/26/2005	20:00	60	103
	09/26/2005	20:15	15	104
	09/26/2005	20:30	15	105
	09/26/2005	20:45	15	105
	09/26/2005	21:00	60	104
	09/26/2005	21:00	15	105
	09/26/2005	21:15	15	105
	09/26/2005	21:30	15	105
	09/26/2005	21:45	15	105
	09/26/2005	22:00	15	105
	09/26/2005	22:00	60	105
	09/26/2005	22:15	15	105
	09/26/2005	22:30	15	104
	09/26/2005	22:45	15	104
	09/26/2005	23:00	15	104
	09/26/2005	23:00	60	104
	09/26/2005	23:15	15	104
	09/26/2005	23:30	15	104
	09/26/2005	23:45	15	104
	09/26/2005	24:00	15	104
	09/26/2005	24:00	60	104
	09/27/2005	00:15	15	104
	09/27/2005	00:30	15	104
	09/27/2005	00:45	15	104
	09/27/2005	01:00	15	104
	09/27/2005	01:00	60	104
	09/27/2005	01:15	15	104
	09/28/2005	01:15	15	101
	09/28/2005	01:30	15	101
	09/28/2005	01:45	15	101
	09/28/2005	02:00	60	101

	09/28/2005	02:00	15	101
	09/28/2005	02:15	15	101
	09/28/2005	02:30	15	102
	09/28/2005	02:45	15	101
	09/28/2005	03:00	15	101
	09/28/2005	03:00	60	101
	09/28/2005	03:45	15	101
	09/28/2005	04:00	60	101
	09/28/2005	04:00	15	101
	09/28/2005	04:15	15	102
	09/28/2005	04:30	15	102
	09/28/2005	04:45	15	102
	09/28/2005	05:00	15	102
	09/28/2005	05:00	60	102
	09/28/2005	05:15	15	101
	09/28/2005	05:30	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
	09/28/2005	05:45	15	101
	09/28/2005	06:00	60	101
	09/28/2005	06:00	15	102
	09/28/2005	06:15	15	102
	09/28/2005	06:30	15	103
	09/28/2005	06:45	15	103
	09/28/2005	07:00	60	103
	09/28/2005	07:00	15	103
	09/28/2005	07:15	15	103
	09/28/2005	07:30	15	103
	09/28/2005	07:45	15	103
	09/28/2005	08:00	60	103
	09/28/2005	08:00	15	103
	09/28/2005	08:15	15	103
	09/28/2005	08:30	15	103
	09/29/2005	12:45	15	101

The following 15 minute precipitation data were identified as outliers. These data indicate torrential downpours common at this site. The following precipitation data were left in:

STNCODE	SMPLDATE	SMPLTIME	CLASS	TotPrp
hudfsmet	09/17/2005	14:30	15	10.2
		15:00	15	05.8

October 2005

The following 15 minute precipitation data were identified as outliers. These data indicate torrential downpours common at this site. The following precipitation data were left in:

STNCODE	SMPLDATE	SMPLTIME	CLASS	TotPrep
hudsmet	10/07/2005	22:45	15	05.6
	10/08/2005	16:30	15	05.6

Recurring relative humidity values in excess of 100% plague the Hudson River NERR, likely due to the wooded nature of our site. Several attempts to relocate to probe throughout 2005 proved unsuccessful. The following data over 100%, apparently caused by condensation on the probe itself were retained as most are within the accuracy of the probe, with values less than or equal to 103%. Those values exceeding 103% were left in by the advice of the CDMO and the discretion of the HRNERR Research Coordinator and Research Assistant.

STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/01/2005	01:15	15	101
	10/01/2005	01:30	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/01/2005	02:00	15	101
	10/01/2005	02:15	15	102
	10/01/2005	02:30	15	102
	10/01/2005	02:45	15	102
	10/01/2005	03:00	60	102
	10/01/2005	03:00	15	102
	10/01/2005	03:15	15	103
	10/01/2005	03:30	15	103
	10/01/2005	03:45	15	103
	10/01/2005	04:00	15	103
	10/01/2005	04:00	60	103
	10/01/2005	04:15	15	103
	10/01/2005	04:30	15	103
	10/01/2005	04:45	15	103
	10/01/2005	05:00	15	103
	10/01/2005	05:00	60	103
	10/01/2005	05:15	15	103
	10/01/2005	05:30	15	103
	10/01/2005	05:45	15	104
	10/01/2005	06:00	60	103
	10/01/2005	06:00	15	104
	10/01/2005	06:15	15	104
	10/01/2005	06:30	15	104
	10/01/2005	06:45	15	104
	10/01/2005	07:00	60	104
	10/01/2005	07:00	15	104
	10/01/2005	07:15	15	104
	10/01/2005	07:30	15	105
	10/01/2005	07:45	15	105
	10/01/2005	08:00	60	105
	10/01/2005	08:00	15	105
	10/01/2005	08:15	15	105
	10/01/2005	08:30	15	102
	10/02/2005	02:15	15	101
	10/02/2005	02:30	15	101

	10/02/2005	02:45	15	101
	10/02/2005	03:00	60	101
	10/02/2005	03:00	15	101
	10/02/2005	03:15	15	102
	10/02/2005	03:30	15	102
	10/02/2005	03:45	15	102
	10/02/2005	04:00	60	102
	10/02/2005	04:00	15	102
	10/02/2005	04:15	15	102
	10/02/2005	04:30	15	102
	10/02/2005	04:45	15	102
	10/02/2005	05:00	15	102
	10/02/2005	05:00	60	102
	10/02/2005	05:15	15	101
	10/02/2005	05:30	15	101
	10/02/2005	05:45	15	102
	10/02/2005	06:00	60	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/02/2005	06:00	15	102
	10/02/2005	06:15	15	102
	10/02/2005	06:30	15	102
	10/02/2005	06:45	15	103
	10/02/2005	07:00	60	103
	10/02/2005	07:00	15	103
	10/02/2005	07:15	15	103
	10/02/2005	07:30	15	103
	10/02/2005	08:00	60	101
	10/02/2005	08:30	15	101
	10/02/2005	08:45	15	104
	10/02/2005	09:00	60	102
	10/02/2005	09:00	15	103
	10/02/2005	09:15	15	102
	10/02/2005	09:30	15	102
	10/02/2005	21:30	15	101
	10/02/2005	21:45	15	101
	10/02/2005	22:00	60	101
	10/02/2005	22:00	15	101
	10/02/2005	22:15	15	102
	10/02/2005	22:30	15	102
	10/02/2005	22:45	15	102
	10/02/2005	23:00	60	102
	10/02/2005	23:00	15	103
	10/02/2005	23:15	15	103
	10/02/2005	23:30	15	103
	10/02/2005	23:45	15	103
	10/02/2005	24:00	15	103
	10/02/2005	24:00	60	103
	10/03/2005	00:15	15	103
	10/03/2005	00:30	15	103
	10/03/2005	00:45	15	103
	10/03/2005	01:00	60	103
	10/03/2005	01:00	15	104
	10/03/2005	01:15	15	104

	10/03/2005	01:30	15	104
	10/03/2005	01:45	15	104
	10/03/2005	02:00	60	104
	10/03/2005	02:00	15	104
	10/03/2005	02:15	15	104
	10/03/2005	02:30	15	104
	10/03/2005	02:45	15	104
	10/03/2005	03:00	60	104
	10/03/2005	03:00	15	104
	10/03/2005	03:15	15	104
	10/03/2005	03:30	15	104
	10/03/2005	03:45	15	104
	10/03/2005	04:00	60	104
	10/03/2005	04:00	15	104
	10/03/2005	04:15	15	104
	10/03/2005	04:30	15	104
	10/03/2005	04:45	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/03/2005	05:00	15	104
	10/03/2005	05:00	60	104
	10/03/2005	05:15	15	104
	10/03/2005	05:30	15	104
	10/03/2005	05:45	15	105
	10/03/2005	06:00	60	104
	10/03/2005	06:00	15	105
	10/03/2005	06:15	15	105
	10/03/2005	06:30	15	105
	10/03/2005	06:45	15	105
	10/03/2005	07:00	60	105
	10/03/2005	07:00	15	105
	10/03/2005	07:15	15	105
	10/03/2005	07:30	15	104
	10/03/2005	07:45	15	105
	10/03/2005	08:00	60	105
	10/03/2005	08:00	15	105
	10/03/2005	08:15	15	105
	10/03/2005	08:30	15	105
	10/03/2005	08:45	15	105
	10/03/2005	09:00	15	101
	10/03/2005	09:00	60	104
	10/04/2005	00:15	15	102
	10/04/2005	00:30	15	102
	10/04/2005	00:45	15	104
	10/04/2005	01:00	60	103
	10/04/2005	01:00	15	103
	10/04/2005	01:15	15	102
	10/04/2005	01:30	15	103
	10/04/2005	01:45	15	105
	10/04/2005	02:00	60	104
	10/04/2005	02:00	15	105
	10/04/2005	02:15	15	105
	10/04/2005	02:30	15	105
	10/04/2005	02:45	15	106

	10/04/2005	03:00	60	105
	10/04/2005	03:00	15	106
	10/04/2005	03:15	15	106
	10/04/2005	03:30	15	106
	10/04/2005	03:45	15	106
	10/04/2005	04:00	60	106
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	10/04/2005	04:30	15	106
	10/04/2005	04:45	15	105
	10/04/2005	05:00	15	105
	10/04/2005	05:00	60	105
	10/04/2005	05:15	15	103
	10/04/2005	05:30	15	101
	10/04/2005	05:45	15	101
	10/04/2005	06:00	60	102
	10/04/2005	06:00	15	103
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	10/04/2005	07:00	15	103
	10/04/2005	07:00	60	104
	10/04/2005	07:15	15	103
	10/04/2005	07:30	15	104
	10/04/2005	07:45	15	104
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	10/05/2005	01:45	15	102
	10/05/2005	02:00	60	101
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	10/05/2005	05:45	15	105
	10/05/2005	06:00	60	105
	10/05/2005	06:00	15	105
	10/05/2005	06:15	15	105
	10/05/2005	06:30	15	105
	10/05/2005	06:45	15	104

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	10/06/2005	03:00	15	104
	10/06/2005	03:15	15	106
	10/06/2005	03:30	15	105
	10/06/2005	03:45	15	104
	10/06/2005	04:00	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	10/06/2005	05:00	15	105
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	10/07/2005	06:00	60	103
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	10/07/2005	06:45	15	105

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	10/07/2005	15:30	15	101
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	10/07/2005	16:00	15	104
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	10/07/2005	17:15	15	106
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	10/07/2005	18:00	15	107
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	10/07/2005	20:00	15	105
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	10/07/2005	20:15	15	105
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	10/07/2005	22:45	15	106
	10/07/2005	23:00	60	106
	10/07/2005	23:00	15	107
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	10/07/2005	24:00	60	106
	10/08/2005	00:15	15	106
	10/08/2005	00:30	15	106
	10/08/2005	00:45	15	105
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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	10/09/2005	07:30	15	104
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	10/09/2005	08:00	60	104

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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	10/10/2005	22:15	15	105
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	10/10/2005	24:00	144	102
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	10/11/2005	01:15	15	104
	10/11/2005	01:30	15	105
	10/11/2005	01:45	15	104
	10/11/2005	02:00	15	104
	10/11/2005	02:00	60	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
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	10/22/2005	16:45	15	105
	10/22/2005	17:00	15	105
	10/22/2005	17:00	60	105
	10/22/2005	17:15	15	105
	10/22/2005	17:30	15	105

	10/22/2005	17:45	15	105
	10/22/2005	18:00	15	105
	10/22/2005	18:00	60	105
	10/22/2005	18:15	15	105
	10/22/2005	18:30	15	105
	10/22/2005	18:45	15	105
	10/22/2005	19:00	15	105
	10/22/2005	19:00	60	105
	10/22/2005	19:15	15	105
	10/22/2005	19:30	15	105
	10/22/2005	19:45	15	105
	10/22/2005	20:00	60	105
	10/22/2005	20:00	15	105
	10/22/2005	20:15	15	105
	10/22/2005	20:30	15	105
	10/22/2005	20:45	15	105
	10/22/2005	21:00	15	105
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/22/2005	21:00	60	105
	10/22/2005	21:15	15	105
	10/22/2005	21:30	15	105
	10/22/2005	21:45	15	105
	10/22/2005	22:00	15	105
	10/22/2005	22:00	60	105
	10/22/2005	22:15	15	105
	10/22/2005	22:30	15	104
	10/22/2005	22:45	15	104
	10/22/2005	23:00	15	104
	10/22/2005	23:00	60	104
	10/22/2005	23:15	15	104
	10/22/2005	23:30	15	104
	10/22/2005	23:45	15	104
	10/22/2005	24:00	144	103
	10/22/2005	24:00	60	104
	10/22/2005	24:00	15	104
	10/23/2005	00:15	15	104
	10/23/2005	00:30	15	104
	10/23/2005	00:45	15	104
	10/23/2005	01:00	60	104
	10/23/2005	01:00	15	104
	10/23/2005	01:15	15	104
	10/23/2005	01:30	15	103
	10/23/2005	01:45	15	103
	10/23/2005	02:00	15	103
	10/23/2005	02:00	60	103
	10/23/2005	02:15	15	103
	10/23/2005	02:30	15	103
	10/23/2005	02:45	15	103
	10/23/2005	03:00	60	103
	10/23/2005	03:00	15	103
	10/23/2005	03:15	15	103
	10/23/2005	03:30	15	104
	10/23/2005	03:45	15	103

	10/23/2005	04:00	60	103
	10/23/2005	04:00	15	104
	10/23/2005	04:15	15	104
	10/23/2005	04:30	15	104
	10/23/2005	04:45	15	104
	10/23/2005	05:00	60	104
	10/23/2005	05:00	15	104
	10/23/2005	05:15	15	105
	10/23/2005	05:30	15	105
	10/23/2005	05:45	15	105
	10/23/2005	06:00	15	105
	10/23/2005	06:00	60	105
	10/23/2005	06:15	15	104
	10/23/2005	06:30	15	104
	10/23/2005	06:45	15	104
	10/23/2005	07:00	15	103
	10/23/2005	07:00	60	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/23/2005	07:15	15	103
	10/23/2005	07:30	15	103
	10/23/2005	07:45	15	102
	10/23/2005	08:00	15	102
	10/23/2005	08:00	60	102
	10/23/2005	20:15	15	101
	10/23/2005	20:30	15	103
	10/23/2005	20:45	15	102
	10/23/2005	21:00	60	102
	10/23/2005	21:00	15	102
	10/23/2005	21:15	15	103
	10/23/2005	21:30	15	104
	10/23/2005	21:45	15	104
	10/23/2005	22:00	15	103
	10/23/2005	22:00	60	103
	10/23/2005	22:15	15	103
	10/23/2005	22:30	15	103
	10/23/2005	22:45	15	103
	10/23/2005	23:00	15	102
	10/23/2005	23:00	60	103
	10/23/2005	23:15	15	101
	10/24/2005	00:30	15	101
	10/24/2005	00:45	15	102
	10/24/2005	01:00	60	101
	10/24/2005	01:00	15	102
	10/24/2005	01:15	15	102
	10/24/2005	01:30	15	102
	10/24/2005	02:00	15	101
	10/24/2005	02:00	60	101
	10/24/2005	03:30	15	101
	10/24/2005	03:45	15	103
	10/24/2005	04:00	60	102
	10/24/2005	04:00	15	103
	10/24/2005	04:15	15	104
	10/24/2005	04:30	15	104

	10/24/2005	04:45	15	103
	10/24/2005	05:00	15	103
	10/24/2005	05:00	60	104
	10/24/2005	05:15	15	104
	10/24/2005	05:30	15	104
	10/24/2005	05:45	15	104
	10/24/2005	06:00	60	104
	10/24/2005	06:00	15	105
	10/24/2005	06:15	15	105
	10/24/2005	06:30	15	105
	10/24/2005	06:45	15	105
	10/24/2005	07:00	15	105
	10/24/2005	07:00	60	105
	10/24/2005	07:15	15	105
	10/24/2005	07:30	15	104
	10/24/2005	07:45	15	104
	10/24/2005	08:00	60	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/24/2005	08:00	15	104
	10/24/2005	08:15	15	105
	10/24/2005	08:30	15	104
	10/24/2005	08:45	15	103
	10/24/2005	09:00	15	101
	10/24/2005	09:00	60	103
	10/24/2005	09:30	15	101
	10/24/2005	21:45	15	102
	10/24/2005	22:00	60	101
	10/24/2005	22:00	15	102
	10/24/2005	22:15	15	103
	10/24/2005	22:30	15	103
	10/24/2005	22:45	15	103
	10/24/2005	23:00	60	103
	10/24/2005	23:00	15	104
	10/24/2005	23:15	15	104
	10/24/2005	23:30	15	104
	10/24/2005	23:45	15	104
	10/24/2005	24:00	60	104
	10/24/2005	24:00	15	104
	10/25/2005	00:15	15	104
	10/25/2005	00:30	15	104
	10/25/2005	00:45	15	104
	10/25/2005	01:00	60	104
	10/25/2005	01:00	15	104
	10/25/2005	01:15	15	104
	10/25/2005	01:30	15	104
	10/25/2005	01:45	15	104
	10/25/2005	02:00	60	104
	10/25/2005	02:00	15	104
	10/25/2005	02:15	15	104
	10/25/2005	02:30	15	104
	10/25/2005	02:45	15	104
	10/25/2005	03:00	60	104
	10/25/2005	03:00	15	104

	10/25/2005	03:15	15	104
	10/25/2005	03:30	15	103
	10/25/2005	03:45	15	103
	10/25/2005	04:00	15	102
	10/25/2005	04:00	60	103
	10/25/2005	04:15	15	101
	10/25/2005	04:30	15	101
	10/25/2005	04:45	15	101
	10/25/2005	05:00	60	101
	10/25/2005	05:00	15	101
	10/25/2005	05:15	15	101
	10/25/2005	05:30	15	101
	10/25/2005	05:45	15	102
	10/25/2005	06:00	60	101
	10/25/2005	06:00	15	102
	10/25/2005	06:15	15	101
	10/25/2005	06:30	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/25/2005	08:15	15	102
	10/25/2005	08:30	15	102
	10/25/2005	08:45	15	103
	10/25/2005	09:00	60	102
	10/25/2005	09:00	15	102
	10/25/2005	09:15	15	102
	10/25/2005	09:30	15	102
	10/25/2005	09:45	15	102
	10/25/2005	10:00	15	102
	10/25/2005	10:00	60	102
	10/25/2005	10:15	15	101
	10/25/2005	10:30	15	101
	10/25/2005	10:45	15	102
	10/25/2005	11:00	60	101
	10/25/2005	11:00	15	101
	10/25/2005	11:15	15	101
	10/25/2005	11:30	15	101
	10/25/2005	11:45	15	101
	10/25/2005	12:00	60	101
	10/25/2005	12:30	15	101
	10/25/2005	14:45	15	101
	10/25/2005	15:00	15	101
	10/25/2005	15:15	15	102
	10/25/2005	15:30	15	102
	10/25/2005	15:45	15	102
	10/25/2005	16:00	60	102
	10/25/2005	16:00	15	102
	10/25/2005	16:15	15	101
	10/25/2005	16:30	15	101
	10/25/2005	16:45	15	101
	10/25/2005	17:00	60	101
	10/25/2005	17:00	15	102
	10/25/2005	17:15	15	102
	10/25/2005	17:30	15	102
	10/25/2005	17:45	15	101

	10/25/2005	18:00	15	101
	10/25/2005	18:00	60	102
	10/25/2005	18:15	15	101
	10/25/2005	18:30	15	101
	10/25/2005	18:45	15	101
	10/25/2005	19:00	60	101
	10/25/2005	19:00	15	101
	10/25/2005	19:15	15	101
	10/25/2005	19:30	15	101
	10/25/2005	24:00	144	101
	10/26/2005	01:45	15	101
	10/26/2005	02:00	15	101
	10/26/2005	03:30	15	101
	10/26/2005	03:45	15	102
	10/26/2005	04:00	60	101
	10/26/2005	04:00	15	103
	10/26/2005	04:15	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/26/2005	04:30	15	104
	10/26/2005	04:45	15	104
	10/26/2005	05:00	60	104
	10/26/2005	05:00	15	105
	10/26/2005	05:15	15	105
	10/26/2005	05:30	15	105
	10/26/2005	05:45	15	105
	10/26/2005	06:00	60	105
	10/26/2005	06:00	15	105
	10/26/2005	06:15	15	105
	10/26/2005	06:30	15	105
	10/26/2005	06:45	15	104
	10/26/2005	07:00	60	101
	10/28/2005	03:45	15	101
	10/28/2005	04:00	15	101
	10/28/2005	05:45	15	101
	10/28/2005	06:00	15	101
	10/28/2005	06:15	15	101
	10/28/2005	06:30	15	101
	10/28/2005	07:00	60	101
	10/28/2005	07:00	15	101
	10/28/2005	07:15	15	102
	10/28/2005	22:00	15	101
	10/28/2005	22:15	15	101
	10/28/2005	22:30	15	101
	10/28/2005	22:45	15	101
	10/28/2005	23:00	60	101
	10/29/2005	23:45	15	101
	10/29/2005	24:00	15	101
	10/30/2005	00:15	15	101
	10/30/2005	00:30	15	102
	10/30/2005	00:45	15	102
	10/30/2005	01:00	60	102
	10/30/2005	01:00	15	103
	10/30/2005	01:15	15	103

	10/30/2005	01:30	15	103
	10/30/2005	01:45	15	103
	10/30/2005	02:00	60	103
	10/30/2005	02:00	15	103
	10/30/2005	02:15	15	103
	10/30/2005	02:30	15	104
	10/30/2005	02:45	15	103
	10/30/2005	03:00	15	103
	10/30/2005	03:00	60	103
	10/30/2005	03:15	15	103
	10/30/2005	03:30	15	104
	10/30/2005	03:45	15	104
	10/30/2005	04:00	60	104
	10/30/2005	04:00	15	104
	10/30/2005	04:15	15	104
	10/30/2005	04:30	15	104
	10/30/2005	04:45	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/30/2005	05:00	60	104
	10/30/2005	05:00	15	104
	10/30/2005	05:15	15	104
	10/30/2005	05:30	15	104
	10/30/2005	05:45	15	104
	10/30/2005	06:00	60	104
	10/30/2005	06:00	15	104
	10/30/2005	06:15	15	104
	10/30/2005	06:30	15	104
	10/30/2005	06:45	15	104
	10/30/2005	07:00	60	104
	10/30/2005	07:00	15	104
	10/30/2005	07:15	15	104
	10/30/2005	07:30	15	105
	10/30/2005	07:45	15	105
	10/30/2005	08:00	60	105
	10/30/2005	08:00	15	105
	10/30/2005	08:15	15	105
	10/30/2005	08:30	15	105
	10/30/2005	08:45	15	105
	10/30/2005	09:00	15	105
	10/30/2005	09:00	60	105
	10/30/2005	09:15	15	105
	10/30/2005	09:30	15	105
	10/30/2005	09:45	15	103
	10/30/2005	10:00	60	102
	10/31/2005	00:15	15	101
	10/31/2005	00:30	15	101
	10/31/2005	00:45	15	101
	10/31/2005	01:00	15	101
	10/31/2005	01:00	60	101
	10/31/2005	01:15	15	101
	10/31/2005	01:30	15	101
	10/31/2005	01:45	15	102
	10/31/2005	02:00	60	101

	10/31/2005	02:00	15	102
	10/31/2005	02:15	15	102
	10/31/2005	02:30	15	102
	10/31/2005	02:45	15	103
	10/31/2005	03:00	60	102
	10/31/2005	03:00	15	103
	10/31/2005	03:15	15	103
	10/31/2005	03:30	15	103
	10/31/2005	03:45	15	103
	10/31/2005	04:00	60	103
	10/31/2005	04:00	15	104
	10/31/2005	04:15	15	104
	10/31/2005	04:30	15	104
	10/31/2005	04:45	15	104
	10/31/2005	05:00	15	104
	10/31/2005	05:00	60	104
	10/31/2005	05:15	15	104
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	10/31/2005	05:30	15	104
	10/31/2005	05:45	15	104
	10/31/2005	06:00	60	104
	10/31/2005	06:00	15	104
	10/31/2005	06:15	15	104
	10/31/2005	06:30	15	104
	10/31/2005	06:45	15	104
	10/31/2005	07:00	60	104
	10/31/2005	07:00	15	104
	10/31/2005	07:15	15	104
	10/31/2005	07:30	15	104
	10/31/2005	07:45	15	105
	10/31/2005	08:00	60	105
	10/31/2005	08:00	15	105
	10/31/2005	08:15	15	105
	10/31/2005	08:30	15	105
	10/31/2005	08:45	15	105
	10/31/2005	09:00	15	105
	10/31/2005	09:00	60	105
	10/31/2005	09:15	15	105
	10/31/2005	09:30	15	105
	10/31/2005	09:45	15	105
	10/31/2005	10:00	60	103

November 2005

No data anomalies

December 2005

STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	12/26/2005	03:30	15	101
	12/26/2005	04:15	15	101
	12/26/2005	04:30	15	101
	12/26/2005	04:45	15	101
	12/26/2005	05:00	60	101

	12/26/2005	05:00	15	101
	12/26/2005	05:15	15	101
	12/26/2005	05:30	15	101
	12/26/2005	05:45	15	101
	12/26/2005	06:00	60	101
	12/26/2005	06:00	15	101
	12/26/2005	06:15	15	101
	12/26/2005	06:30	15	101
	12/26/2005	06:45	15	101
	12/26/2005	07:00	60	101
	12/26/2005	07:00	15	101
	12/26/2005	07:15	15	101
	12/26/2005	07:30	15	101
	12/26/2005	07:45	15	101
	12/26/2005	08:00	15	101
	12/26/2005	08:00	60	101
	12/26/2005	08:15	15	101
STNCODE	SAMPLEDATE	SAMPLETIME	CLASS	RH
hudsmet	12/26/2005	08:30	15	101
	12/26/2005	08:45	15	101
	12/26/2005	09:00	15	101
	12/26/2005	09:00	60	101
	12/26/2005	09:15	15	101
	12/26/2005	09:30	15	101
	12/26/2005	09:45	15	101
	12/26/2005	10:00	15	101
	12/26/2005	10:00	60	101
	12/26/2005	10:15	15	101
	12/26/2005	10:30	15	101
	12/26/2005	10:45	15	101
	12/26/2005	11:00	60	101
	12/26/2005	11:00	15	101
	12/26/2005	11:15	15	101
	12/26/2005	11:30	15	101
	12/26/2005	11:45	15	101
	12/26/2005	12:00	15	101
	12/26/2005	12:00	60	101
	12/26/2005	12:15	15	101
	12/26/2005	12:30	15	101
	12/26/2005	12:45	15	101
	12/26/2005	13:00	15	101
	12/26/2005	13:00	60	101
	12/26/2005	13:15	15	101
	12/26/2005	13:30	15	101
	12/26/2005	13:45	15	101
	12/26/2005	14:00	60	101
	12/26/2005	17:00	15	101
	12/26/2005	17:30	15	101
	12/26/2005	17:45	15	101
	12/26/2005	18:00	15	101
	12/26/2005	18:15	15	101

12. Deleted Data

Arrays:

During 2022 all pre-2007 weather data were revisited by the CDMO. Historically those datasets included 15 minute, hourly (60), and daily data arrays (144). As directed by the NERRS Data Management Committee, the CDMO removed the hourly and daily data arrays leaving only the 15 minute data to make the entire NERRS SWMP weather dataset consistent in its reporting. All references to the 60 and 144 arrays were left in the metadata document as they may still provide valuable information, but users should be aware that they are largely no longer relevant. The updated datasets were uploaded to the database and made available through the various data applications at www.nerrsdata.org/get/landing.cfm throughout the fall of 2022.

January 2005

The PAR sensor began recording extremely high readings on 12/22/2004. These readings were followed by readings of -99999 on 12/23/2004. This pattern reoccurred on 12/29/2004 and 12/30/2004 and again on 12/31/2004 and 01/01/05. The problem was likely due to miscommunication between the PAR sensor and the CR10X caused by corrosion on the wires. The following data were deleted:

STNCODE	SMPLDATE	SMPLTIME	CLASS
hudfsmet	01/01/05	16:45 – 21:00, 24:00	15 , 60 and 144

February 2005

An updated program (see Section 14) was loaded onto the CR10X at 14:00 on 02/02/2005. Therefore, hourly averages (Array 60) and max/min data (Array 15, 60) at 14:00 on 02/02/2005 were deleted due to loss of 5-second data used to calculate these numbers. Daily averages and max/min data (Array 144) were deleted (all parameters) due to the loss of 5-second data used to calculate these averages.

March 2005

The weather station was powered down between 9:50 03/30/05 for replacement of the PAR sensor with a newly calibrated sensor. Data (all parameters) are missing from 10:00 through 11:15. Array 15 at 11:30, Array 60 at 12:00 and Array 144 for 03/30/2005 were deleted.

April 2005

No data deleted

May 2005

No data deleted

June 2005

The CR10X was shut down at 07:35 on 06/08/05 for anemometer replacement. The CR10x resumed operation at 08:10. Data for 07:45-8:00 are missing for all parameters. The 15 minute array at 08:15, 60 minute array at 09:00 and the 1440 minute array at 24:00 were all deleted.

July 2005

No data deleted

August 2005

Data were deleted on 8/9/05 at 08:15, 09:00 and 24:00 the Min ATemp value was -38.5, and the Min RH value was 003. These values were clearly out of range and therefore removed

September 2005

No data deleted

October 2005

The CR10X was shut down between 11:02 and 11:14 10/31/2005 to replace a seemingly malfunctioning HMP45 temperature and relative humidity probe. Only 5 second data are missing. The 15 minute array for 11:15, 60 minute array for 12:00 and the 1440 minute array for 24:00 were deleted, all parameters, due to missing 5 second data.

November 2005

As HUD NERR is a pilot site for transmission of meteorological data via the GOES satellite system, representatives from Campbell, with the assistance of the research coordinator and SWMP technician, installed a TX-312 transmitter and made necessary infrastructure changes to the HUDFSMET station 11/14/2005. As such, the station was powered down at 09:35 and not powered up again until 16:18. Data between 09:30 and 14:30 11/14/2005 are missing. Subsequently, and due to missing 5-second records, all parameters were deleted for the 15 minute array of 16:30, the 60 minute array of 17:00 and the 1440 minute array of 24:00.

December 2005

A newly calibrated HMP45AC was installed 12/09/2005 in response to several relative humidity values over 100% in the preceding months. The weather station was powered down at 15:16 and remained off until 15:33. Data from the 15:30 are missing. Data deletions are noted in Section 12. All parameters were deleted for the 15 minute array of 15:45, the 60 minute array of 16:00 and the 144 minute array of 24:00.

An adjusted program was uploaded 12/20/2005 at 13:37 which included a corrected PAR multiplier. Only 5 second data are missing. All parameters were deleted from the 15 and 60 minute arrays of 14:00 and the 1440 minute array of 24:00.

An investigation of a malfunctioning tipping bucket heater resulted in false tips. The following depth data were deleted:

STNCODE	SMPLDATE	SMPLTIME	CLASS
hudsomet	12/20/2005	13:00	15
		13:00	60
		13:15	15
		13:30	15
		14:00	60
		24:00	144

13. Missing Data

Arrays:

During 2022 all pre-2007 weather data were revisited by the CDMO. Historically those datasets included 15 minute, hourly (60), and daily data arrays (144). As directed by the NERRS Data Management Committee, the CDMO removed the hourly and daily data arrays leaving only the 15 minute data to make the entire NERRS SWMP weather dataset consistent in its reporting. All references to the 60 and 144 arrays were left in the metadata document as they may still provide valuable information, but users should be aware that they are largely no longer relevant. The updated datasets were uploaded to the database and made available through the various data applications at www.nerrsdata.org/get/landing.cfm throughout the fall of 2022.

February 2005

The weather station was powered down at 13:00 on 02/02/05 for maintenance to the PAR sensor. The abnormally high readings and readings of -99999 may have been caused by corrosion on the wires leading to miscommunication with the CR10X. The wires were stripped to expose a new contact area with the CR10X faceplate. The weather station was turned on at 12:55 and a new program (NERR_4_2.CSI) was loaded onto the CR10X. Data (all sensors) are missing from 13:00 to 14:00 on 02/02/05.

March 2005

The weather station was powered down between 9:50 03/30/05 for replacement of the PAR sensor with a newly calibrated sensor. Data (all parameters) are missing from 10:00 through 11:15. Data collection resumed at 11:20.

June 2005

The CR10X was shut down on 06/08/05 at 07:35 for anemometer replacement. The CR10x resumed operation at 08:10. Data for 07:45-8:00 are missing for all parameters.

October 2005

The CR10X was shut down between 11:02 and 11:14 10/31/2005 to replace a seemingly malfunctioning HMP45 temperature and relative humidity probe. Only 5 second data are missing. Deletions are noted in section 12.

November 2005

As HUD NERR is a pilot site for transmission of meteorological data via the GOES satellite system, representatives from Campbell, with the assistance of the research coordinator and SWMP technician, installed a TX-312 transmitter and made necessary infrastructure changes to the HUDFSMET station 11/14/2005. As such, the station was powered down at 09:35 and not powered up again until 16:18. Data between 09:30 and 16:30 11/14/2005 are missing. See section 12 for associated deletions.

December 2005

A newly calibrated HMP45AC was installed 12/09/2005 in response to several relative humidity values over 100% in the preceding months. The weather station was powered down at 15:16 and remained off until 15:33. Data from the 15:30 are missing. Data deletions are noted in Section 12.

An adjusted program was uploaded 12/20/2005 at 13:37 which included a corrected PAR multiplier. Only 5 second data are missing. Deletions are noted in section 12.

14. Other Remarks/Notes

On 10/16/2023 this dataset was updated to include embedded QAQC flags for anomalous/suspect data. System-wide monitoring data beginning in 2007 were processed to allow for QAQC flags and codes to be embedded in the data files rather than detailed in the metadata alone (as in the anomalous/suspect, deleted, and missing data sections above). Prior to 2007, rejected data were deleted from the dataset so they are unavailable to be used at all, but suspect data were only noted in the metadata document. Suspect data flags <1> were embedded retroactively in order to allow suspect data to be easily identified and filtered from the dataset if desired for analysis and reporting purposes. No other flags or codes were embedded in the dataset and users should still refer to the detailed explanations above for more information.

Arrays:

During 2022 all pre-2007 weather data were revisited by the CDMO. Historically those datasets included 15 minute, hourly (60), and daily data arrays (144). As directed by the

NERRS Data Management Committee, the CDMO removed the hourly and daily data arrays leaving only the 15 minute data to make the entire NERRS SWMP weather dataset consistent in its reporting. All references to the 60 and 144 arrays were left in the metadata document as they may still provide valuable information, but users should be aware that they are largely no longer relevant. The updated datasets were uploaded to the database and made available through the various data applications at www.nerrsdata.org/get/landing.cfm throughout the fall of 2022.

Precipitation:

During the initial years of NERRS SWMP weather data collection the CR10X programming was inconsistent in how precipitation values were recorded. For most reserves, zeros were not recorded when rainfall had not occurred between 2001-2003, instead no rainfall was represented by a blank cell. The CDMO verified which datasets were impacted by this issue for the 2001-2006 datasets and inserted zeros when the metadata indicated that no precipitation occurred and data were not missing for other reasons. In some cases, zero values for precipitation data were evaluated and removed where the metadata confirmed that no rainfall should have been in the dataset. The pre-2007 data did not go through a thorough QAQC process again at that time (in addition to previous QAQC); however, if discrepancies were noticed between what was documented in the metadata and what was in the dataset, additional updates may have been made. The updated datasets were uploaded to the database and made available through the various data applications at www.nerrsdata.org/get/landing.cfm throughout early 2023.

A new program (NERR_4_2.CSI) was loaded onto the CR10X at 14:00 on 02/02/05. The program changed the midnight time stamp from 00:00 on the following day to 24:00 on the preceding day. Array 144 (daily summaries and max/min) now appears with the correct date stamp for the totals.

During routine maintenance 10/05/2005, the datalogger clock was synched with a PC operating in DST at about 7:50 EST. The problem persisted until October 26th when the clock was reset around 8:50 EST. All time stamps for these data were corrected in Excel, as were average values, min/max values and corresponding occurrence times in arrays 60 and 144 under the advice of Bob Scarborough.

Another new program (NERR_5.CSI), prepared by Campbell representatives during GOES transmitter installation, was loaded to the CR10X at 16:20 on 11/14/05. The program was altered to accommodate GOES transmission. Subsequent 2005 data were collected weekly directly from the CR10X due to incompatibility with the SM4M storage module and the TX 312 transmitter, which caused the transmitter to intermittently reset.

Also during the GOES installation visit from Campbell, 11/14/2005, the PAR multiplier was discovered unchanged through the last PAR sensor replacement, which was completed 3/30/05 at 11:20. The wrong multiplier was in place until 16:00 EST, 11/14/2005. Subsequently, all PAR data between 03/30/2005 and 11/14/2005 were corrected to reflect the proper multiplier.

Infrastructure additions during the GOES equipment installation included a larger solar panel and battery, a larger enclosure to house the battery, a Campbell TX-312 transmitter, associated GPS for time synchronization and a Yagi antenna.

A new program uploaded 12/20/2005 at 13:37 to reflect proper PAR multiplier which was incorrectly calculated due to a unit discrepancy on the calibration sheets from Campbell. All data since 3/30/2005 were corrected in Excel.