

Climatronics Meteorological System Log
USC Baruch Field Lab
1983 - 1996

This document is a complete copy of the list of entries made by the weather technician in reference to maintenance issues and problems with the weather station. As a complete copy, it includes entries regarding the precipitation data that were removed from this data set (as noted in the metadata). These entries should be ignored. Entries were made on the date indicated. It is important to remember that the Weather Log is the only documentation available for use in checking for errors and anomalous data. There is no further documentation regarding what specific steps were taken by technicians to remove or correct anomalous data. Two additional documents have been provided on-line, along with the data set, in an effort to consolidate information relating to missing and anomalous data. They are entitled "Meteorological Anomalous Data Documentation" and "Meteorological Missing Data Documentation." Relevant entries in all three of these documents should be taken into consideration before data from this meteorological data set is utilized. The original Climatronics Meteorological System Log notebook is held in a fireproof cabinet in the data management office at the Baruch Field Lab in Georgetown, SC.

1983

- 3/1/83 Water Level averaging time reset to 360 seconds from 3600 seconds at 1600 hours.

- 3/7/83 Malfunction in CHAN 0-40 max values, test conducted on 3/15/83 pointed to a faulty recorder – disconnected.

- 3/16/83 Recorder removed for repair.
Receiver card removed and returned as a result of voltage overload. System down at around 1400 hours.

- 3/22/83 Receiver card returned and system restarted at 0930 hours.
Tide set to scan and average every 360 seconds.

- 3/25/83 Air temperature sensor replaced.

- 4/7//83 Attempted re-installation of recorder – instantaneous values of Air Temp, Water Temp, and Conductivity were affected.

- 4/8/83 Disconnected power to recorder – instantaneous values of Air Temp, Water Temp, Conductivity, and Barometric Pressure were affected (max 1040).

- 5//5/83 Circuit breaker tripped at remote. Lost signal, unsure of when.

- 5/6/83 Power restored at remote at about 1300 hours.

- 5/18/83 Noticed water level down.

- 5/20/83 New probe for water level – restart at 1500 hours.

- 5/24/83 Noticed water temp high = 49.9
*** Water temp fluctuated wildly through 6/16/83, temps ranging from 49 to 20. Not sure on dates but especially from 5/25 – 6/7. Problem seemed to correct itself.***

- 7/8/83 Reinstalled recorder, installed recording paper 10:14:00

- 7/7/83 Magnetic tape changed 16:14:00
Paper recording tape changed 16:42:00 – 17:12:00

- 7/19/83 Paper recorder malfunctioning, both pressure markers pegged on right side. All variables seem to be reading very high. 17:44:03
- 7/22/83 Recorder power wires disconnected, readings affected but may not be representative. 14:40:00
- 7/25/83 Air Temp voltage high (all others fine), wind speed seems to be reading high.
- 8/11/83 Noticed water level down, likely a problem with the sensor.
- 9/1/83 TEST Detected broken sensors for Conductivity, Water Temp, and Water Level – cards were removed.
Wind Velocity back up at 1400 hours.
- 9/7/83 Changed status of Wind Direction to down (stuck on 540).
- 9/12/83 Changes status of Wind Velocity to down (floating 0-15)
- 10/12/83 TEST Removed Precipitation card and Rain Gauge for cleaning and repair.
All probes still out of water.
Wind Velocity and Direction read ok at station (not at IMP/803).
Barometric Pressure questionable.
Solar Radiation ok.
- 10/13/83 Change tape. 13:02
- 11/16/83 System repaired by John Berry from Climatronics.
All channels working except Precipitation.
Restart system 11/17/83 at 17:15 hours.
- 11/22/83 New cable installed for precipitation gauge. Precipitation back up at 1545 hours.
Noticed low reading for Barometric Pressure at 940, will continue to monitor.
- 12/6/83 Rain gauge clogged with bird feces, cleaned at 13:45 hours.

1984

- 1/3/84 Changed tape.
Station ID changed from 1 to 2, all other functions seem ok.
Barometric Pressure seems high at 1028.
- 1/20/84 Barometric Pressure seems high: Instant=1028, High=1032 – weather is overcast and cold (should be lower).
- 1/23/84 Barometric Pressure is high at 1033 instantaneous.
- 1/27/84 Visual inspection of met station. Rain gauge cleared of a small amount of bird feces.
- 2/16/84 Visual inspection of met station. Rain gauge cleaned, rained on Feb. 13, may not have registered correctly.
- 3/14/84 Visual inspection of met station. Rain gauge is clear.
- 4/6/84 Site check met station. Rain gauge is clear.
- 4/24/84 Site check met station. Rain gauge clogged.

- 5/4/84 Data acquisition system (IMP 803) locked up. System was powered down, then up, and reprogrammed and restarted. No apparent damage to the system despite heavy thunderstorms the previous night.
- 5/11/84 Data acquisition system locked up. Clock read 20:58 hours. System reprogrammed and restarted. Power supply faulty, returned with receiver to Climatronics for repair.
SYSTEM DOWN
- 6/1/84 Site check of met station. Rain gauge ok. IMP 803 still down.
- 6/21/84 Power and receiver back from Climatronics. Reinstalled at 08:00. Does not appear to be functioning properly. System still down.
- 7/16/84 Transmitter reinstalled, system restarted at 09:00 hours.
Water Temp not functioning.
- 7/25/84 Site check met station.
- 7/30/84 Change tape.
- 7/31/84 Reprogrammed Precipitation to scan =3600, average =3600.
- 8/13/84 Noticed receiver card not lit. Voltages at IMP ok. Power ok. SYSTEM DOWN.
- 8/21/84 System sent to Climatronics (entire IMP 803 for installation of RS 232 and repair).
- 10/30/84 System restarted.
Water Temp card and probe not installed.
Conductivity probe status changed to down.
Printouts started at this point.
- 11/14/84 Noticed record of data not on the 6 minute interval. Reprogrammed IMP 803 to start sequence at 12:00.
- 11/15/84 System ran rails on some probes for a short while and then deprogrammed test points on all cards tested at remote site (mainframe) while setting to Zero, Span, Span 540, and Operate. While at zero the zero reading on the Wind Direction card was 5.68 originally, and then went down to 0.0 on the second check.
- 11/23/84 – 11/25/84 System down, locked up. Reprogrammed Nov. 26, at 9:50 hours.
- 11/30/84 Problem started at 12:00 - Wind Direction (Channel 1) outputting wrong values. At the same time RS 232 output omitted Channel 1 from output.
- 12/3/84 Met station (IMP 803) locked up.
Installed new Water Temp probe.
Removed Barometric Pressure sensor.
Cleaned Rain Gauge.
Powered IMP off and on, then reprogrammed. Seemed to have corrected the problem.
- 12/7/84 Air Temp debugged at 0400 hours and checks out ok after being reprogrammed.
Visually checked tower and cleaned rain gauge.
- 12/12/84 Installed new pressure sensitive chart paper at 1600 hours.

12/14/84 Visual check of weather station, all ok.

12/18/84 Visual check of weather station, all ok.

1985

- 1/2/85 Installed conductivity probe at met station.
Reprogrammed station to show correct date (leap year) at 1400.
Checked all voltages on Zero, Span, Operate.
Checked all cards.
- 1/18/85 Platinized conductivity probe at met station.
- 1/24/85 System down about 1500 hr on Jan. 23 due to power failure. Noticed was locked up at 8:30.
No voltage coming through phone line, battery at mainframe apparently not functioning.
System reprogrammed at 1100 hrs – all channels seem to be functioning.
Barometric Pressure still down.
- 2/4/85 Changed tape on IMP 803 (day 035), some data prior to day 035 was lost.
- 2/15/85 Re-platinized conductivity probe.
- 3/4/85 System went down at 07:30, reprogrammed at 08:30.
- 3/5/85 Dropped Precipitation (Channel 5) at 0200, reprogrammed at 0900.
- 3/12/85 Installed Barometric Pressure sensor
- 3/18/85 Changed tape.
- 4/15/85 Re-platinized conductivity probe.
Tested test points on all cards in operate mode.
Rain gauge cleaned.
- 4/26/85 Changed tape on IMP 803
- 5/13/85 Changed chart tape on IMP 803
- 5/16/85 Checked met station.
Zeroed and spanned to get max, min.
Possible calibration problem.
- 5/21/85 SYSTEM DOWN May 21 through June 7. Transmitter card and receiver card sent to Climatronics to be checked.
- 5/28/85 Receiver card back from Climatronics.
- 5/31/85 Reprogrammed, values questionable.
- 6/7/85 System up and working.
- 6/10/85 Attempted to re-platinize the conductivity probe, had problems with device. Should see bad readings from Day 161 at 1500 to Day 162 at 1000.
- 6/11/85 Re-platinized conductivity probe at 1000. Reading is 17.6 – seems low. At 0900 was 35.2, at 0800 was 43.4.

7/9/85 Noticed faulty readings on IMP. No receiver light. Bad breaker switch at remote site.

7/11/85 SYSTEM DOWN at 1400 due to electrical storm.

7/19/85 Met station back up at 1530. Transmitter card was burned by lightning but repaired and returned by Climatronics. All stations look ok.

7/24/85 Hurricane Bob – 110mm rain.

7/25/85 Water Level is down.

8/5/85 Wind Velocity down at 0600.

8/6/85 Tape changed – ran over. May have missed 1-2 days of data.

8/8/85 Water Level is up.
Wind Direction is down.
Wind Velocity is down.

9/3/85 Wind Velocity is up – new probes installed. Anemometer repaired.
Wind direction down until 1515, out of alignment until 10/4/85 – measurements off approx. 90-100 degrees.

9/5/85 Changed scroll tape 0800.

9/17/85 Changed magnetic tape – had run out, may have missed hours or a day.

9/26/85 Changed tape for hurricane.

10/1/85 SYSTEM DOWN – Frequent pegs of data. (Bad data Oct. 1 – 5????)

10/4/85 Station up
Precipitation down – short in line or gauge.

10/5/85 Water level card removed, system still outputting lows and peaks (run rails).

10/10/85 SYSTEM DOWN Attempt to swap receiver and transmitter cards with new ones – no signal.

11/5/85 Changed tape.

11/12/85 Tested resistance.

11/20/85 SYSTEM DOWN 1500

11/21/85 System up.
Water Level down.

12/19/85 Remote site check.
Replatinized conductivity probe.
Clean rain gauge.
Clean water level probe.
Clean water temp probe.

12/20/85 Replace tape – had run out, may have lost data for up to 15 days.
Received receiver and transmitter and water level cards from Climatronics.

1986

- 1/13/86 Changed water level probe and installed junction box. Checked signal reading – looks ok.
Water Level UP.
- 1/21/86 Rain gauge calibration.
- 1/27/86 Changed tape.
- 3/5/86 Electrical storm problems – system locked up – powered down and reprogrammed.
Tape removed.
- 3/14/86 SYSTEM DOWN Electrical storm – station down at 0600. Transmitter card was burned, power
supply went bad.
Reprogrammed at 1528, ran approx. six hours and then zeroed out.
Noticed long crack in tower frame.
Power supply and transmitter sent to Climatronics.
- 3/31/86 System is up – installed boards and reprogrammed at 1430.
- 4/1/86 System looks good.
- 4/4/86 Changed tape 1310
- 4/8/86 Water temp appears high.
- 4/9/86 Changed water temp probe.
- 5/1/86 Changed tape – ran out so there is some missing data
System problems evident at IMP – frequent pegs of numerous channels.
- 5/2/86 Mux Tape changed.
- 5/6/86 Receiving bad data
Precipitation card reading 1.5
- 5/7/86 Precipitation down.
- 5/8/86 System sending out bad values. Was not receiving any signal in the morning.
Switched out transmitter, receiving data – looks fine.
- 5/13/86 Not receiving signal as of 1900 5/12. Switched transmitter cards at 0930, system receiving
signal, looks ok.
- 5/21/86 MUX recorder failed. System locked up. Reprogrammed at 1500.
- 5/22/86 Program error – IMP 803
Reprogrammed at 0900
- 5/23/86 Replaced rain gauge card. Probe started working again.
- 6/8/86 Barometric Pressure reading is bad through 6/20?
- 6/9/86 Mux's recorder started working again.
- 6/11/86 Julian Day showing 001 at 0930, changed back to 162.

- 6/20/86 Reprogrammed Wind Direction and Barometric Pressure – without decimal place, extra digit did not get caught in net clean.
- 6/21/86 Met station struck by lightning approx. 0100 – SYSTEM DOWN.
- 6/24/86 Replaced transmitter receiver cards – only received signal for about 2 hours.
- 6/27/86 Reprogrammed met station, receiving good data.
Power supply faulty.
- 6/30 – 7/01/86 System up and down parts of each day – possibly some bad data.
- 7/2/86 Signal lost from approx. 1600 through 0930 on July 3.
- 7/15/86 Sent transmitter and receiver and power supply to Climatronics for repair.
- 7/16/86 System up – received transmitter and receiver card from Climatronics. System appears to be functioning.
- 7/17/86 Precipitation still giving out bad readings. Card taken out.
- 7/18/86 SYSTEM DOWN IMP 803 printout indicating erroneous data – channels maxing out. May be some bad data.
- 7/23/86 SYSTEM DOWN Station struck by lightning. Sent IMP 803 and cards to Climatronics.
- 12/15/86 Received system with probes back from Climatronics.
- 12/17/86 system up?
- 12/18/86 Air Temp and Solar Rad down?

1987

- 1/5/87 No data until 1/5 – no power. System is up and running.
Air Temp and Solar Rad are down.
- 1/7/87 Air Temp and Solar Rad up at 1200 – new air temp gauge.
Conductivity down since power loss on 1/1/87, still down.
- 1/13/87 Water Temp card pulled – problem with some data?
- 1/15/87 Water Temp card reinstalled – but don't trust values for....
Barometric Pressure card pulled
- 1/29/87 New probes and cards for Barometric Pressure and Water Temp. Consider that they were down since June of 1986.
- 2/27/87 Changed Mux tape.
- 3/2/87 System was down over the weekend – accidentally unplugged.
Clock was accidentally set ahead 1 hour at 1130.
- 3/3/87 Noted that Jday was wrong and corrected.

- 3/5/87 Noticed printout was off 3 min's on its readings. Went back and changed enable status parameter to one for all channels. Printout looks ok now.
- 3/16/87 Replatinized conductivity probe.
Zero/SPANED all channels to check calibrations at remote site.
- 3/18/87 Installed phone line surge suppressor in attic. Approx. one hour down time around 1500.
- 3/26/87 Conductivity printout was "0" at 0930. Was reading 3.0 on card for a moment, then started reading ok again. Power problems? Will keep an eye on out.
- 3/26/87 Not receiving signal, increased sensitivity. Looks ok. Don't know how long this went on – may have something to do with installing power suppressor.
- 3/30/87 Receiving bad printout and then stopped receiving signal. Checked cards at tower. Solar Rad reading "0" and -5.0. Replaced card. Signal checks out ok. Possibly some bad data?
- 4/1/87 Noticed that signal stopped last night at 1700 hours. Signal apparently started back up at 0800 the morning of 4/1.
- 4/2/87 Solar Rad card is down.
Still losing signal at night. Pulled Rad card to see if this is the problem.
- 4/3/87 System ran ok all night.
Solar Rad down.
- 4/8/87 Power disconnected while platform was reconstructed.
- 5/11/87 Changed mag. Tape on IMP. Tower still down for reconstruction of platform.
- 5/28/87 Tower still down. Digital tapes are looking bad.
Reprogrammed IMP 803 this a.m. to see if it would help correct the problem.
- 6/19/87 Tower up – system up. Will watch this weekend. Lightning and rain storm at 1500.
- 6/22/87 Power loss due to storm on Friday. Came back on 6/21 (Sun) for about 8 hours. Stopped receiving data Sunday night. Replaced transmitter card. System handles ok.
Changed tape.
- 7/31/87 Tape readouts looking terrible, sent transport out to be checked. Returned on 8/3, checked out ok, assuming it is the tape reader.
- 8/10/87 Reinstalled tape transport and reprogrammed IMP 803 at 1435, not reading 6 min. reading on mag tape.
- 8/11/87 Met printer was accidentally turned off last night and tape was not working. Lost data. Up and running again.
- 8/13/87 Sending tape reader to Memodyne? with tape.
- 8/23/87 Replatinized conductivity probe. Probe was running high – bad data???
- 8/24/87 No Conductivity reading on print out since 8/23. Was showing 0.0 on print out. Started good readings again on 8/23 at 1800.
- 8/27/87 Conductivity went down again on 8/26. Changed connections, looks ok.

- 8/31/87 Conductivity was down over weekend as a result of breaker tripping. Lost about 2 hours of data around 1000 due to working on station. Changed all connector cards at tower. May be some phantom readings, some values seem high, will check cards for replacement tomorrow. Water Level card looks like it has been burned on two empty connectors.
- 9/4/87 Replaced water level card last week (burnt connectors). Conductivity probe having problems, values are jumping up and down. Precipitation card showing strange values on operate and on zero, tried everything, still not working. No signal since 1500 on 9/3. Switched transmitter and receiver card, nothing worked. SYSTEM DOWN.
- 9/9/87 Changed power supply and transmitter, receiving a signal again. Will watch to see which card is bad. System is up. Precipitation is still down.
- 9/10/87 Lost signal again about 1930. Changed power supply and transmitter cards, still no signal. Disconnected and reconnected phone line to IMP 803, receiving signal again.
- 9/11/87 SYSTEM DOWN. Pulled receiver out and then put back in and started working again. Stopped again at about 1400, tried pulling Solar Rad card, still no signal.
- 9/14/87 System up. Secured phone line connection and water level ground at tower. Installed new P/S and TDM card.
- 9/15/87 System is still up. Precipitation and Solar Radiation still bad. SR is iffy and Precip. Still reads 1.6 on operate. Installed new card, still no good.
- 9/21/87 System was going down at night last week. Replaced Solar Rad. Probe and card. Crystals in probe were pink, indicating that they were used. System ran all weekend, but SR output on mux tape was fuzzy. Precipitation is still down.
- 9/23/87 Received tape reader, looks good. Still waiting for Precipitation and Water Level cards.
- 10/28/87 Lost Conductivity reading yesterday, discovered this a.m. Cleaned all gold connectors on cards, looks ok now.
- 10/29/87 Changed tape.
- 11/10/87 Bad storm this a.m., bad data coming in. Breaker was tripped. Water level card reading wrong (-.18). Secured phone line on 11/12, signal is back up.
- 11/13/87 Replaced water level sensor, everything looks good.
- 11/27/87 Bad rain storm SYSTEM DOWN at 2000, discovered and brought up at 0900 on 11/30. Operated 4 or 5 hours and then went back down. Back up at 0900 on 11/31. Barometric Pressure is still down (everything else running), giving bad readings.
- 12/13/87 Print out looks bad from 1800 to 0600 on 12/14. May be bad data, started working again on its own.

- 12/15/87 Print out looks ok. Barometric Pressure is still down.
- 12/16/87 Stopped receiving signal last night. Cleaned transmitter, started receiving a signal again. Conductivity is reading negative values on test point on card and receive no signal at the lab when this happens. Problem is corrected by turning something??? On and off. Don't know what causes the problem.
- 12/21/87 Tried to repair Barometric Pressure. No success. System down part of the day. Called about sensor, waiting for reply.
Precipitation and BP still down.
Changed mux tape.

1988

- 1/4/88 Conductivity has been down since 12/31 at 1400. Reset breaker, looks ok now.
- 1/5/88 Lost signal last night at 2100, conductivity reading -.35. Turned system off and reset conductivity. Started receiving signal again.
- 1/18/88 Breaker tripped at tower last week. Conductivity down 1/11 at 1200 to 1/18 at 1000.
- 1/27/88 Changed tape. Memodyne tape recorder on IMP 803 seems to be sticking (may affect data from 1/21-2/02).
- 2/2/88 Barometric Pressure and Precipitation up and running. Checked all voltages and made any necessary adjustments. Everything looks pretty good.
- 2/3/88 SYSTEM DOWN Discovered not receiving any signal, transmitters not sending signal. Never got system up with either card.
- 2/29/88 System is back up, installed new parts. System down from 2/02-2/29.
- 3/9/88 System has been running well since 2/29.
- 3/22/88 Conductivity has been turned on and off many times over the past four weeks due to work on the sea water pumps.
- 4/6/88 Changed tape.
Conductivity looks high.
- 4/11/88 Replatinized conductivity probe and reset breaker. Was tripped for an unknown amount of time. Conductivity down from 3/29 to 4/11.
- 5/11/88 Conductivity bad from 1000 – 1600. Reset card, seemed to solve problem.
- 5/23/88 IMP 803 shut off around 2000 on 5/21. Reset surge protector, signal seems to be ok now.
- 5/24/88 Breaker tripped at tower last night. No Conductivity from 0000 to 0900. Reset breaker receiving signal now.
- 6/13/88 Conductivity down this morning. Reset breaker and card. Probe went down on 6/6 and stayed down until 6/13.
- 6/16/88 Replatinized Conductivity probe, everything look ok.
- 6/28/88 Changed tape.

- 7/5/88 System down due to lightning storm on 7/1. Reprogrammed and seems ok.
- 7/18/88 Changed Mux tape.
- 7/28/88 Lightning tripped breaker, reset.
- 7/29/88 Lightning tripped breaker last night, reset again.
- 8/4/88 Conductivity down due to power problems about 1315 through 8/5 at 1200.
- 8/9/88 Changed tape.
- 8/15/88 Breaker tripped due to rain on 8/14 at 2200 hours. Reset at 0930 on 8/15.
- 8/22/88 Breaker tripped, reset in afternoon.
- 8/31/88 Breaker tripped in a.m., down from 0300 – 1300.
- 9/20/88 Changed tape.
- 9/26/88 Breaker tripped 9/25 at 1600, reset at 1200 on 9/26.
- 9/27/88 Checked maximum and minimum on cards today. Highs and Lows will be bad for this day.
- 10/3/88 Conductivity down since 9/30 at 1200, up at 10/3 1600, put in new probe.
Water temp and Water level down 10/3 from 1000 – 1600.
All probes back up.
- 10/17/88 Conductivity down from 1200 – 1500.
Max Min's messed up because checking???
- 10/31/88 Changed tape.
- 11/23/88 Breaker tripped at 2300 on 11/21, reset at 1000 on 11/22.
Changed mux?
- 12/9/88 Minimum air temp reading is bad (-11.2), may be more bad data.

1989

- 1/3/89 Changed tape. May be missing data on tape removed, tape appeared to be stuck, may also have run out before changed. Tape ran from 10/31 to 1/3.
- 1/4/89 Jday reading 005, changed to 004.
- 1/5/89 Conductivity showing bad numbers. Could have been as early as 1/3 or before. Tried to replatinize, but couldn't get a signal afterwards. Sent in to be checked, have no backup. System down part of day for check.
- 1/17/89 Replaced Conductivity probe. Problem was with platinizer. Everything looks ok.
Bad minimum air temp for this day, showing a negative number.
- 1/23/89 Power surge caused problems with Conductivity and Water Level. Seem to be ok now.
- 1/24/89 Air temp showing bad readings again: max of 34.7, min of -2.8, both are bad.

2/1/89 Bad max value for air temp.

2/7/89 Bad min value for air temp.

2/13/89 Bad max and min values for air temp.

2/14/89 Bad max and min values for air temp.

2/20/89 Bad max and min values for air temp.

2/21/89 Bad max and min values for air temp.

2/23/89 Changed tape.

3/7/89 Bad min value for air temp.
Conductivity low at the same time (bad readings?)

3/14/89 Conductivity readings bad, replatinized probe. Ok?

3/30/89 Bad min value for air temp.

4/4/89 Changed tape.

4/5/89 Storm tripped breaker, conductivity down from 4/5 0700 to 4/6 1100.

4/11/89 Bad max and min values for air temp.

4/30/89 Bad max value for Conductivity

5/1/89 Bad max and min values for air temp.
Bad max value for Conductivity.

5/8/89 Breaker tripped on 5/6 due to a storm.
Bad max and min values for air temp.

5/10/89 Bad max and min values for air temp.
Bad max value for conductivity.

5/12/89 Bad max and min values for air temp.
Bad max value for conductivity.

5/15/89 Changed tape.

5/17/89 Continued problems with air temp. Changed probes for air temp and Solar Radiation. SR
crystals needed to be changed.

5/20/89 Breaker tripped on 5/20, reset on 5/22.

5/26/89 Air temp still giving off bad readings, changed cards but did not help.

6/19/89 Breaker tripped over the weekend, lost some Conductivity data.

6/23/89 Changed tape.

6/30/89 Replatinized conductivity probe.

- 7/16/89 Some problems with conductivity over the past week, reset today.
- 7/17/89 Bad max values for conductivity, air temp, and water temp.
- 7/25/89 Conductivity down due to storm.
Changed mux tape.
- 8/4/89 Breaker was tripped, reset.
- 8/7/89 Replaced Water Level probe (finished on 8/8), was receiving bad data. Looks ok now.
- 8/8/89 Replatinized conductivity probe.
- 9/5/89 Water level is down. Had been receiving bad data, end of probe was pitted and rust was leaking down.
- 9/14/89 Changed tape.
- 9/20/89 Installed Water level gauge.
- 9/21/89 Hurricane Hugo – lost all equipment. New equipment has been ordered.

1990

- 12/4/90 New met station with the following sensors has been installed: wind direction, wind speed, air temp, solar radiation, and barometric pressure. There are no sensors for precipitation, water level, conductivity, and water temp at this time.
Loaded program and set calendar.
System is up and running.

1991

- 1/22/91 Removed storage module on 1/7, notified of slight problems with program on 1/10. Corrected problems and loaded new program on 1/10. Hooked up module on 1/11. Should be running ok.
- 2/1/91 Barometric Pressure showing same value (950) from 1/11 to 1/31. Data is bad.
- 2/2/91 Changed program for BP.
- 2/6/91 Checked BP, numbers not at 1070? Signal wire loose, tightened.
- 2/8/91 New BP calibration is off 45mb. Should be at 905.51, but is reading 950.51. Corrected, but need to subtract 45 from BP in the last few days.
- 2/27/91 NCAR system sent back to Colorado.
- 3/18/91 Installed updated program, should give data in same format as old met data.
- 4/1/91 Read first met file from new program. Program is not giving max wind velocity or water level.
- 4/12/91 Received new program and loaded.
- 5/6/91 Read data file from data logger.
- 6/3/91 Read data file from data logger.

7/1/91 Realized wind arm went bad on 6/17 through 7/9. Switched out, checks out ok. (corrected data 10/4/91)

7/23/91 Installed water level, conductivity, and water temp.

1992

1/6/92 Read file, Water Level bad.

1/8/92 Replaced Water Level sensor.

1/31/92 Installed conductivity sensor.

2/25/92 Determined Barometric Pressure is bad. Changed sensor and reprogrammed. BP data from 2/6 to 2/24 was sporadic, some was good, some was bad. Call it all bad???

3/21/92 Trouble with changing Conductivity probe. Down for a little while.

7/28/92 Read tape, Wind Velocity is bad. Sensor down from 7/24 to 7/28. Changed out, is ok now.

8/20/92 Discovered bad data for Water Level. Changed sensor, look ok, but lost about 10 days.

11/12/92 Read tape, discovered problem with conductivity over last several days. Bad data appears to start around 11/6.

11/16/92 Replaced conductivity sensor. Data looks ok, but decimal place is wrong. Can't get the multiplier to work properly, will change it in excel. Sent other sensor in for repair, will reinstall it when it is returned.

1993

3/18/93 Replaced water temp sensor, was reading bad lows. Looks ok now.

6/2/93 Problems with program in storage module. Lost data around 5/31.

9/1/93 Corrected Wind Direction sensor. It was bent by a bird sitting on it. Data was bad from 8/25 at 1500 to 9/1 at 1500.

1994

4/18/94 Problems with clock, set itself to day 0, hr 0. Reset. Due to error max mins were lost for days 4/11 through 4/17.

5/20/94 Discovered water level is bad. Replaced sensor. Suspect bad data from 4/27 to 5/20. Sensor did not go down, just drifted off. Will get data off of datasoude at O.L. to replace bad data.

1995

2/25/95 Water Level down through 2/27, changed sensor.

9/18/95 Replaced Water Level gauge.

10/18/95 Water Level appears to have dropped when new sensor was installed on 2/27. There appears to be a difference of 29-30cm (low). All values between 7/28 @1000 and 9/18 @ 1500 were adjusted by lowering them by 40 cm. The values between 9/18 @ 1500 and 10/18? were increased by 30 cm to reflect the difference after the new sensor was calibrated.

12/6/95 After downloading the file the clock set itself back to zero, file was changed to show correct date and time.

12/11/95 Power outage. Reset data logger and clock with pc. Clock.
Removed and sent in Licor Quantum sensor.

12/12/95 Retrieve storage module correct SC 532 interface. Disconnect solar radiation modem.

1996

1/15/96 Reinstalled recalibrated Licor Quantum Sensor along with solar panel. Solar panel had been removed before Christmas to check for power problems, checked out fine.