# Data Quality Reports for Session: 163590 User: opersson1 Completed: 11/10/2014

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## DQRID : D090331.2

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 09/18/2008 | 0000 | 09/20/2008 | 2359 |

| | |
|---|---|
| Subject: | NSA/MET/C1 - Temp/RH/wind data questionable |
| DataStreams: | nsametC1.b1, nsatwrC1.b1 |
| Description: | New wind sensors and new T/RH probes were being installed during this time period. The tower booms were lowered and much of the data collected were not at listed heights nor were the data accurate due to configurations during install. |

| | |
|---|---|
| **Measurements:** | **nsametC1.b1**: <br><br> • qc_wspd_arith_mean <br> • qc_rh_mean <br> • qc_wspd_vec_mean <br> • vapor_pressure_std <br> • Wind speed vector mean(wspd_vec_mean) <br> • temp_std <br> • qc_temp_mean <br> • Humidity, relative, at 2-m height, 1-min avg(rh_mean) <br> • dew_point_mean <br> • Wind speed, lower, 1-min avg(wspd_arith_mean) <br> • Wind direction, vector, lower, 1-min avg(wdir_vec_mean) <br> • Mean Air Temperature or Hardware Error(temp_mean) <br> • qc_wdir_vec_mean <br> • vapor_pressure_mean <br> • wdir_vec_std <br> • qc_vapor_pressure_mean <br> • qc_dew_point_mean <br> • trh_err_code <br> • dew_point_std <br> • rh_std <br><br> **nsatwrC1.b1**: <br><br> • wdir_vec_std <br> • qc_wspd_arith_mean <br> • qc_temp_mean <br> • trh_err_code <br> • Wind speed, lower, 1-min avg(wspd_arith_mean) <br> • qc_wdir_vec_mean <br> • dew_point_mean <br> • Mean Air Temperature or Hardware Error(temp_mean) <br> • temp_std <br> • Wind speed vector mean(wspd_vec_mean) <br> • Humidity, relative, at 2-m height, 1-min avg(rh_mean) <br> • dew_point_std <br> • rh_std <br> • qc_rh_mean <br> • Wind direction, vector, lower, 1-min avg(wdir_vec_mean) <br> • vapor_pressure_mean <br> • vapor_pressure_std <br> • qc_wspd_vec_mean <br> • qc_dew_point_mean <br> • qc_vapor_pressure_mean |

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### DQRID : D090331.3

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 10/10/2008 | 1220 | 10/10/2008 | 1750 |
| | | | |

| 10/11/2008 | 0700 | 10/11/2008 | 1100 |
|---|---|---|---|
| 11/07/2008 | 0652 | 11/08/2008 | 1903 |
| 11/22/2008 | 1400 | 11/24/2008 | 0310 |
| 11/25/2008 | 1900 | 11/27/2008 | 0300 |
| 02/13/2009 | 1450 | 02/18/2009 | 1800 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - PWS data missing due to snow impaction |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | Blizzard conditions caused the optics to become impacted with snow and ice rendering the<br>Present Weather Detector inoperative. |
| **Measurements:** | **nsametC1.b1**:<br><br>- qc_pws_cumul_snow<br>- qc_pws_pw_code_15min<br>- qc_pws_precip_rate_mean_1min<br>- PWS 10 minute mean visibility(pws_vis_mean_10min)<br>- qc_pws_cumul_rain<br>- pws_err_code<br>- qc_pws_vis_mean_1min<br>- pws_cumul_rain<br>- pws_pw_code_1hr<br>- pws_cumul_snow<br>- Rain, surface, 1-min avg(pws_precip_rate_mean_1min)<br>- pws_pw_code_15min<br>- qc_pws_pw_code_inst<br>- pws_pw_code_inst<br>- qc_pws_pw_code_1hr<br>- qc_pws_err_code<br>- qc_pws_vis_mean_10min<br>- PWS 1 minute mean visibility(pws_vis_mean_1min) |

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## DQRID : D090331.4

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 11/01/2008 | 0000 | 12/18/2008 | 2100 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - Wind data intermittent |
| **DataStreams:** | nsametC1.b1, nsatwrC1.b1 |
| **Description:** | There was a loose wire on the serial data multiplexer causing the wind data to become<br>missing during high wind situations.  The high winds caused the enclosure to vibrate making<br>the connection intermittent. |
| **Measurements:** | **nsametC1.b1**:<br><br>- Wind speed, lower, 1-min avg(wspd_arith_mean)<br>- qc_wspd_arith_mean<br>- qc_wspd_vec_mean<br>- Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>- qc_wdir_vec_mean<br>- Wind speed vector mean(wspd_vec_mean)<br>- wdir_vec_std |

**nsatwrC1.b1**:

- wdir_vec_std
- qc_wspd_arith_mean
- Wind direction, vector, lower, 1-min avg(wdir_vec_mean)
- qc_wspd_vec_mean
- Wind speed, lower, 1-min avg(wspd_arith_mean)
- qc_wdir_vec_mean
- Wind speed vector mean(wspd_vec_mean)

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## DQRID : D090331.5

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 11/29/2008 | 1800 | 11/30/2008 | 1730 |
| 12/29/2008 | 1500 | 12/30/2008 | 0800 |
| 01/01/2009 | 0138 | 01/02/2009 | 0447 |
| 01/04/2009 | 0624 | 01/06/2009 | 1428 |
| 01/07/2009 | 1740 | 01/08/2009 | 1720 |
| 01/14/2009 | 0930 | 01/14/2009 | 2103 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH data missing |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | The data from the CMH was missing during these times due to a failing logic board. The board was replaced. |
| **Measurements:** | **nsametC1.b1**:<br><br>- cmh_dew_point<br>- qc_cmh_dew_point<br>- qc_cmh_rh<br>- cmh_temp<br>- cmh_vapor_pressure<br>- qc_cmh_vapor_pressure<br>- qc_cmh_sat_vapor_pressure<br>- qc_cmh_temp<br>- cmh_sat_vapor_pressure<br>- cmh_rh |

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## DQRID : D090630.1

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 06/08/2009 | 2244 | 06/11/2009 | 2037 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - Met data incorrect during calibration |
| **DataStreams:** | nsametC1.b1, nsatwrC1.b1 |
| **Description:** | All met data from the tower booms (temp, RH, winds and derived variables) were incorrect due to the booms being lowered from their measurement heights. Additionally, the scaffolding was located directly adjacent to the booms affecting the wind field and |

|  | the Temp/RH<br>data. |
|---|---|
| **Measurements:** | **nsametC1.b1**:<br><br>• qc_wspd_arith_mean<br>• qc_rh_mean<br>• qc_wspd_vec_mean<br>• vapor_pressure_std<br>• Wind speed vector mean(wspd_vec_mean)<br>• qc_temp_mean<br>• temp_std<br>• qc_time<br>• Humidity, relative, at 2-m height, 1-min avg(rh_mean)<br>• dew_point_mean<br>• Wind speed, lower, 1-min avg(wspd_arith_mean)<br>• Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>• Mean Air Temperature or Hardware Error(temp_mean)<br>• qc_wdir_vec_mean<br>• vapor_pressure_mean<br>• wdir_vec_std<br>• qc_vapor_pressure_mean<br>• qc_dew_point_mean<br>• trh_err_code<br>• dew_point_std<br>• rh_std<br><br>**nsatwrC1.b1**:<br><br>• wdir_vec_std<br>• qc_wspd_arith_mean<br>• qc_temp_mean<br>• trh_err_code<br>• Wind speed, lower, 1-min avg(wspd_arith_mean)<br>• qc_wdir_vec_mean<br>• dew_point_mean<br>• Mean Air Temperature or Hardware Error(temp_mean)<br>• temp_std<br>• Wind speed vector mean(wspd_vec_mean)<br>• Humidity, relative, at 2-m height, 1-min avg(rh_mean)<br>• dew_point_std<br>• rh_std<br>• qc_rh_mean<br>• Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>• vapor_pressure_mean<br>• vapor_pressure_std<br>• qc_wspd_vec_mean<br>• qc_dew_point_mean<br>• qc_vapor_pressure_mean |

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## DQRID : D090630.2

|  |  |  |  |
|---|---|---|---|

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 06/10/2009 | 0014 | 06/10/2009 | 0130 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - PWS calibration |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | The PWS was undergoing calibration. Any data collected during this time is not representative of the atmospheric state. |
| **Measurements:** | **nsametC1.b1**:<br><br>• qc_pws_cumul_snow<br>• qc_pws_pw_code_15min<br>• qc_pws_precip_rate_mean_1min<br>• PWS 10 minute mean visibility(pws_vis_mean_10min)<br>• qc_pws_cumul_rain<br>• pws_err_code<br>• qc_pws_vis_mean_1min<br>• pws_cumul_rain<br>• pws_pw_code_1hr<br>• pws_cumul_snow<br>• Rain, surface, 1-min avg(pws_precip_rate_mean_1min)<br>• pws_pw_code_15min<br>• qc_pws_pw_code_inst<br>• pws_pw_code_inst<br>• qc_pws_pw_code_1hr<br>• qc_pws_err_code<br>• qc_pws_vis_mean_10min<br>• PWS 1 minute mean visibility(pws_vis_mean_1min) |

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## DQRID : D090630.3

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 06/10/2009 | 0159 | 06/10/2009 | 1940 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH calibration |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | CMH data missing due to removal of the sensor for annual calibration. |
| **Measurements:** | **nsametC1.b1**:<br><br>• cmh_dew_point<br>• qc_cmh_dew_point<br>• qc_cmh_rh<br>• cmh_temp<br>• cmh_vapor_pressure<br>• qc_cmh_vapor_pressure<br>• qc_cmh_sat_vapor_pressure<br>• qc_cmh_temp<br>• cmh_sat_vapor_pressure<br>• cmh_rh |

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## DQRID : D090710.1

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 06/13/2009 | 2215 | 07/08/2009 | 2250 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - 2m RH values incorrect |
| **DataStreams:** | nsametC1.b1, nsatwrC1.b1 |
| **Description:** | The new t/rh probe installed during annual calibrations and checks began to exhibit readings that were biased high compared to the Chilled Mirror Hygrometer.  In high RH<br>conditions the sensor would consistently report RH values in excess of 105%. Comparisons to the<br>other tower levels also suggested that the 2m level RH data is suspect. |
| **Measurements:** | **nsametC1.b1**:<br><br><ul><li>dew_point_mean</li><li>Humidity, relative, at 2-m height, 1-min avg(rh_mean)</li><li>qc_rh_mean</li><li>vapor_pressure_std</li><li>vapor_pressure_mean</li><li>qc_dew_point_mean</li><li>dew_point_std</li><li>rh_std</li></ul><br>**nsatwrC1.b1**:<br><br><ul><li>rh_std</li><li>qc_rh_mean</li><li>vapor_pressure_mean</li><li>vapor_pressure_std</li><li>dew_point_mean</li><li>qc_dew_point_mean</li><li>Humidity, relative, at 2-m height, 1-min avg(rh_mean)</li><li>dew_point_std</li><li>qc_vapor_pressure_mean</li></ul> |

## DQRID : D100208.13

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 01/23/2010 | 0513 | 02/05/2010 | 2100 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH and 10m winds failure |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | At 0513GMT on 1/23 the atmos_pressure and CMH - temp, RH, DP & Sat. VP changed abruptly to<br>unlikely values. The 10m winds failed at 1420GMT.<br><br>The CMH was repaired on 02/04/2010 at 2254GMT and the 10m winds sensor was replaced on<br>02/05/2010 at 2100GMT. |
| **Measurements:** | **nsametC1.b1**:<br><br><ul><li>cmh_dew_point</li><li>Wind speed, lower, 1-min avg(wspd_arith_mean)</li><li>qc_wspd_arith_mean</li></ul> |

- qc_cmh_dew_point
- qc_wspd_vec_mean
- Wind direction, vector, lower, 1-min avg(wdir_vec_mean)
- cmh_vapor_pressure
- qc_cmh_temp
- cmh_sat_vapor_pressure
- qc_wdir_vec_mean
- Wind speed vector mean(wspd_vec_mean)
- wdir_vec_std
- qc_cmh_rh
- cmh_temp
- qc_cmh_vapor_pressure
- qc_cmh_sat_vapor_pressure
- cmh_rh

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## DQRID : D100504.1

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 04/23/2010 | 1943 | 04/26/2010 | 1903 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH Data Missing |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | The GFCI had tripped causing the CMH to lose power.  All CMH variables are missing except<br>CMHRH which reports 100% for the entire time. |
| **Measurements:** | **nsametC1.b1**:<br><br>- cmh_dew_point<br>- qc_cmh_dew_point<br>- qc_cmh_rh<br>- cmh_temp<br>- cmh_vapor_pressure<br>- qc_cmh_vapor_pressure<br>- qc_cmh_sat_vapor_pressure<br>- qc_cmh_temp<br>- cmh_sat_vapor_pressure<br>- cmh_rh |

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## DQRID : D100709.1

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 05/25/2010 | 1730 | 07/07/2010 | 2200 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH Sent to Vendor for Repair |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | CMH connector on the transmitter enclosure that goes to the head unit degraded and failed.<br> System was removed and sent to the manufacturer for repair. |
| **Measurements:** | **nsametC1.b1**: |

- cmh_dew_point
- qc_cmh_dew_point
- qc_cmh_rh
- cmh_temp
- cmh_vapor_pressure
- qc_cmh_vapor_pressure
- qc_cmh_sat_vapor_pressure
- qc_cmh_temp
- cmh_sat_vapor_pressure
- cmh_rh

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## DQRID : D101215.2

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 12/01/2010 | 1208 | 12/09/2010 | 2259 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH offline |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | CMH removed for repair. |
| **Measurements:** | **nsametC1.b1**: <br><br> • cmh_dew_point <br> • qc_cmh_dew_point <br> • qc_cmh_rh <br> • cmh_temp <br> • cmh_vapor_pressure <br> • qc_cmh_vapor_pressure <br> • qc_cmh_sat_vapor_pressure <br> • qc_cmh_temp <br> • cmh_sat_vapor_pressure <br> • cmh_rh |

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## DQRID : D101220.3

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 10/23/2010 | 1543 | 11/05/2010 | 0716 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - 10m wind sensor offline |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | The 10m wind sensor values were 0 m/s and 000 for wind direction. The sensor lost communications. |
| **Measurements:** | **nsametC1.b1**: <br><br> • qc_wdir_vec_mean <br> • Wind speed, lower, 1-min avg(wspd_arith_mean) <br> • Wind speed vector mean(wspd_vec_mean) <br> • qc_wspd_arith_mean <br> • wdir_vec_std <br> • qc_wspd_vec_mean |

- Wind direction, vector, lower, 1-min avg(wdir_vec_mean)

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## DQRID : D110217.1

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 01/24/2011 | 1800 | 02/10/2011 | 2300 |

| Subject: | NSA/MET/C1 - CMH offline |
|----------|--------------------------|
| DataStreams: | nsametC1.b1 |
| Description: | Beginning 1/24/2011, the CMH went offline resulting in missing temperature and dewpoint<br>measurements and erroneous vapor pressure, saturation vapor pressure, and RH measurements.<br><br>Problem fixed with a power cycle. |
| Measurements: | nsametC1.b1:<br><br>• cmh_dew_point<br>• cmh_temp<br>• cmh_vapor_pressure<br>• cmh_sat_vapor_pressure<br>• cmh_rh |

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## DQRID : D110602.2

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 05/15/2011 | 0900 | 05/28/2011 | 0010 |

| Subject: | NSA/MET/C1 - CMH Failure |
|----------|--------------------------|
| DataStreams: | nsametC1.b1 |
| Description: | The Chilled Mirror Hydrometer (CMH) developed a short in the wiring harness. All CMH data<br>missing or incorrect during the period listed. |
| Measurements: | nsametC1.b1:<br><br>• cmh_dew_point<br>• qc_cmh_dew_point<br>• qc_cmh_rh<br>• cmh_temp<br>• cmh_vapor_pressure<br>• qc_cmh_vapor_pressure<br>• qc_cmh_sat_vapor_pressure<br>• qc_cmh_temp<br>• cmh_sat_vapor_pressure<br>• cmh_rh |

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## DQRID : D110722.2

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|

| 05/17/2011 | 0200 | 07/20/2011 | 1823 |
|---|---|---|---|

| Subject: | NSA/MET/C1 - Wind sensor data missing |
|---|---|
| DataStreams: | nsametC1.b1, nsatwrC1.b1 |
| Description: | 2m, 10m, 20m wind sensors went off-line 5/17 due to GFCI tripping caused by failing CMH.<br>The 2m and 20m data wind sensor returned 6/6, but the 10m remained offline until 7/20 as<br>the sensor was damaged. |
| Measurements: | **nsametC1.b1**:<br><br>&bull; Wind speed, lower, 1-min avg(wspd_arith_mean)<br>&bull; Wind speed vector mean(wspd_vec_mean)<br>&bull; wdir_vec_std<br>&bull; Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br><br>**nsatwrC1.b1**:<br><br>&bull; wdir_vec_std<br>&bull; Wind speed, lower, 1-min avg(wspd_arith_mean)<br>&bull; Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>&bull; Wind speed vector mean(wspd_vec_mean) |

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## DQRID : D111129.1

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 11/06/2011 | 0758 | 11/19/2011 | 0800 |

| Subject: | NSA/MET/C1 - CMH communication failure |
|---|---|
| DataStreams: | nsametC1.b1 |
| Description: | CMH lost communication with datalogger. All values from CMH were -6999 during this time<br>resulting in the CMHRH flatlining at 100%. Communications was intermittent during entire<br>time period. |
| Measurements: | **nsametC1.b1**:<br><br>&bull; cmh_dew_point<br>&bull; cmh_temp<br>&bull; cmh_vapor_pressure<br>&bull; cmh_sat_vapor_pressure<br>&bull; cmh_rh |

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## DQRID : D120105.2

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 11/08/2011 | 0000 | 02/22/2013 | 2035 |

| Subject: | NSA/MET/C1 - Frosting/Condensation |
|---|---|
| DataStreams: | nsametC1.b1 |
| Description: | Beginning 20111108, the PWD began occasionally frosting over, signaling an alarm code and |

```
sometimes causing the PWD to stop reporting. A new PWD with hood heater attachment
was
installed 20130222.
```

| Measurements: | nsametC1.b1: |
|---|---|
| | - Rain, surface, 1-min avg(pws_precip_rate_mean_1min)<br>- pws_cumul_snow<br>- pws_pw_code_15min<br>- PWS 10 minute mean visibility(pws_vis_mean_10min)<br>- pws_pw_code_inst<br>- pws_err_code<br>- pws_cumul_rain<br>- PWS 1 minute mean visibility(pws_vis_mean_1min)<br>- pws_pw_code_1hr |

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## DQRID : D120423.1

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 12/07/2011 | 2215 | 12/07/2011 | 2330 |
| 12/08/2011 | 0145 | 12/08/2011 | 1345 |
| 12/25/2011 | 0300 | 12/25/2011 | 0630 |
| 01/02/2012 | 1600 | 01/03/2012 | 1900 |
| 01/05/2012 | 0330 | 01/06/2012 | 0030 |
| 01/07/2012 | 1130 | 01/08/2012 | 0100 |
| 01/08/2012 | 0730 | 01/08/2012 | 0800 |
| 01/08/2012 | 1130 | 01/09/2012 | 0000 |
| 01/14/2012 | 0800 | 01/14/2012 | 1545 |
| 01/16/2012 | 1945 | 01/17/2012 | 1945 |
| 01/18/2012 | 1800 | 01/18/2012 | 1900 |
| 03/04/2012 | 0000 | 03/04/2012 | 0200 |
| 12/04/2011 | 1300 | 12/04/2011 | 1730 |
| 12/05/2011 | 0000 | 12/05/2011 | 2100 |
| 12/05/2011 | 2130 | 12/07/2011 | 0645 |

| Subject: | NSA/MET/C1 - CMH failure |
|---|---|
| DataStreams: | nsametC1.b1 |
| Description: | Starting 14:17 GMT on 12/4/2011 the CMH Dew Point began reporting missing value, CMH<br><br>relative humidity was flat-lining at 100% and CMH saturated vapor pressure was flat-lined at a<br>high value.  This condition continued very intermittently for several months.  Issue was<br>frosting and a failed ventilation fan. |
| Measurements: | nsametC1.b1: |
| | - cmh_dew_point<br>- cmh_temp<br>- cmh_vapor_pressure<br>- cmh_rh<br>- cmh_sat_vapor_pressure |

### DQRID : D121108.1

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 09/26/2012 | 2000 | 10/03/2012 | 2330 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - 10m wind data not reporting |
| **DataStreams:** | nsametC1.b1, nsatwrC1.b1 |
| **Description:** | 10 meter wind speed and direction data were not reporting after a scheduled power outage<br>took place.  Sensor was replaced. |
| **Measurements:** | **nsametC1.b1**:<br><br>&bull; Wind speed, lower, 1-min avg(wspd_arith_mean)<br>&bull; Wind speed vector mean(wspd_vec_mean)<br>&bull; wdir_vec_std<br>&bull; Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br><br>**nsatwrC1.b1**:<br><br>&bull; wdir_vec_std<br>&bull; Wind speed, lower, 1-min avg(wspd_arith_mean)<br>&bull; Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>&bull; Wind speed vector mean(wspd_vec_mean) |

### DQRID : D121128.1

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 02/04/2012 | 1029 | 02/13/2012 | 0223 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - Incorrect liquid precipitation accumulation |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | A problem with the present weather detector's firmware caused negative precipitation accumulation to be recorded. The problem was fixed with a sensor swap. |
| **Measurements:** | **nsametC1.b1**:<br><br>&bull; pws_cumul_rain |

### DQRID : D130405.1

| Start Date | Start Time | End Date | End Time |
|------------|------------|----------|----------|
| 04/04/2013 | 1820 | 04/04/2013 | 2320 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - Present Weather Detector testing |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | The present weather detector was undergoing testing during this time. The data is not<br>representative of true conditions. |
| **Measurements:** | **nsametC1.b1**: |

- Rain, surface, 1-min avg(pws_precip_rate_mean_1min)
- pws_cumul_snow
- pws_pw_code_15min
- PWS 10 minute mean visibility(pws_vis_mean_10min)
- pws_pw_code_inst
- pws_err_code
- pws_cumul_rain
- PWS 1 minute mean visibility(pws_vis_mean_1min)
- pws_pw_code_1hr

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## DQRID : D130621.2

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 02/22/2013 | 2035 | 06/04/2013 | 2200 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - PWD failure |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | The PWD erroneously reported constant precipitation during the specified period. |
| **Measurements:** | **nsametC1.b1**: |

- pwd_precip_rate_mean_1min
- pwd_err_code
- pwd_pw_code_inst
- PWD 1 minute mean visibility(pwd_mean_vis_1min)
- pwd_pw_code_1hr
- pwd_pw_code_15min
- pwd_cumul_rain
- PWD 10 minute mean visibility(pwd_mean_vis_10min)
- pwd_cumul_snow

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## DQRID : D140121.4

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 11/03/2013 | 0041 | 11/03/2013 | 1934 |
| 11/13/2013 | 0756 | 11/14/2013 | 0812 |
| 11/22/2013 | 2223 | 11/25/2013 | 1754 |
| 12/01/2013 | 0002 | 12/01/2013 | 0541 |
| 12/07/2013 | 2139 | 12/07/2013 | 2251 |
| 12/08/2013 | 0047 | 12/08/2013 | 0233 |
| 12/13/2013 | 0731 | 12/13/2013 | 0906 |
| 12/13/2013 | 1650 | 12/14/2013 | 2048 |
| 12/15/2013 | 0456 | 12/15/2013 | 0701 |
| 12/20/2013 | 0843 | 12/21/2013 | 1329 |
| 12/22/2013 | 0015 | 12/23/2013 | 0343 |
| 12/27/2013 | 1624 | 12/30/2013 | 0809 |
| 01/01/2014 | 0529 | 01/01/2014 | 1217 |

| | | | |
|---|---|---|---|
| 01/04/2014 | 0802 | 01/04/2014 | 1203 |
| 01/04/2014 | 1603 | 01/04/2014 | 1845 |
| 01/05/2014 | 0510 | 01/06/2014 | 1314 |
| 01/06/2014 | 2248 | 01/06/2014 | 2350 |
| 01/13/2014 | 1102 | 01/13/2014 | 1645 |
| 01/14/2014 | 2108 | 01/15/2014 | 1146 |
| 01/18/2014 | 0642 | 01/20/2014 | 1618 |
| 01/21/2014 | 0658 | 01/21/2014 | 1021 |
| 02/10/2014 | 1931 | 02/11/2014 | 0455 |
| 02/16/2014 | 2203 | 02/18/2014 | 1934 |
| 02/20/2014 | 0435 | 02/20/2014 | 1348 |
| 02/23/2014 | 0548 | 02/24/2014 | 1657 |
| 02/25/2014 | 0046 | 02/27/2014 | 2325 |
| 03/01/2014 | 0243 | 03/01/2014 | 0444 |
| 03/01/2014 | 1658 | 03/02/2014 | 0631 |
| 03/04/2014 | 2051 | 03/05/2014 | 0254 |
| 03/08/2014 | 2041 | 03/09/2014 | 0210 |
| 03/09/2014 | 1847 | 03/09/2014 | 1939 |
| 03/09/2014 | 2059 | 03/09/2014 | 2333 |
| 03/10/2014 | 2009 | 03/11/2014 | 0138 |
| 03/11/2014 | 1956 | 03/13/2014 | 0400 |
| 03/13/2014 | 1932 | 03/15/2014 | 0416 |
| 03/19/2014 | 2148 | 03/20/2014 | 0421 |
| 03/21/2014 | 0119 | 03/21/2014 | 0250 |
| 03/21/2014 | 1216 | 03/21/2014 | 1239 |
| 03/23/2014 | 0140 | 03/23/2014 | 0307 |
| 03/23/2014 | 2040 | 03/24/2014 | 0119 |
| 03/24/2014 | 2143 | 03/25/2014 | 0052 |
| 03/27/2014 | 2139 | 03/28/2014 | 0109 |
| 03/28/2014 | 2139 | 03/29/2014 | 0213 |
| 03/30/2014 | 0040 | 03/30/2014 | 0254 |
| 03/31/2014 | 0149 | 03/31/2014 | 0427 |
| 04/01/2014 | 0007 | 04/01/2014 | 0404 |
| 04/04/2014 | 1832 | 04/05/2014 | 0228 |
| 04/05/2014 | 2146 | 04/06/2014 | 0407 |
| 04/06/2014 | 2054 | 04/07/2014 | 0347 |
| 04/07/2014 | 1723 | 04/07/2014 | 2137 |
| 04/09/2014 | 0025 | 04/09/2014 | 0358 |
| 04/09/2014 | 2154 | 04/10/2014 | 0440 |
| 04/10/2014 | 1947 | 04/10/2014 | 2201 |
| 04/18/2014 | 2216 | 04/19/2014 | 0006 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH failure due to icing |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | Snow/ice pack on the CMH causes instrument failure in adverse conditions.<br><br>Use temp_mean, rh_mean, and vapor_pressure_mean from this datastream as a substitute. |
| | |

| | |
|---|---|
| **Measurements:** | **nsametC1.b1**:<br><br>• cmh_dew_point<br>• cmh_temp<br>• cmh_vapor_pressure<br>• cmh_sat_vapor_pressure<br>• cmh_rh |

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## DQRID : D140213.3

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 02/06/2014 | 1317 | 02/06/2014 | 1404 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - Power outage |
| **DataStreams:** | nsametC1.b1, nsatwrC1.b1 |
| **Description:** | Incorrect data due to power outage. |
| **Measurements:** | **nsametC1.b1**:<br><br>• cmh_dew_point<br>• Wind speed, lower, 1-min avg(wspd_arith_mean)<br>• Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>• cmh_vapor_pressure<br>• vapor_pressure_std<br>• cmh_sat_vapor_pressure<br>• vapor_pressure_mean<br>• Wind speed vector mean(wspd_vec_mean)<br>• wdir_vec_std<br>• cmh_temp<br>• cmh_rh<br><br>**nsatwrC1.b1**:<br><br>• wdir_vec_std<br>• Wind direction, vector, lower, 1-min avg(wdir_vec_mean)<br>• vapor_pressure_mean<br>• vapor_pressure_std<br>• Wind speed, lower, 1-min avg(wspd_arith_mean)<br>• Wind speed vector mean(wspd_vec_mean) |

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## DQRID : D141006.3

| Start Date | Start Time | End Date | End Time |
|---|---|---|---|
| 09/25/2014 | 0500 | 09/25/2014 | 1800 |

| | |
|---|---|
| **Subject:** | NSA/MET/C1 - CMH humidity measurements suspect |
| **DataStreams:** | nsametC1.b1 |
| **Description:** | During this time, the chilled mirror dew point, relative humidity, and vapor pressure data<br>become stagnant following a period of high variability. Data begin to compare well |

```
with
co-located sensors without interference.
```

| Measurements: | **nsametC1.b1**: |
| --- | --- |
| | • cmh_dew_point<br>• cmh_vapor_pressure<br>• cmh_rh |

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## DQRID : D141006.4

| Start Date | Start Time | End Date | End Time |
| --- | --- | --- | --- |
| 10/01/2014 | 2215 | 10/04/2014 | 0056 |

| Subject: | NSA/MET/C1 - Temp/RH instrument offline |
| --- | --- |
| DataStreams: | nsametC1.b1 |
| Description: | |
| Measurements: | **nsametC1.b1**: |
| | • Mean Air Temperature or Hardware Error(temp_mean)<br>• Humidity, relative, at 2-m height, 1-min avg(rh_mean)<br>• dew_point_mean<br>• vapor_pressure_mean<br>• trh_err_code |

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## DQRID : D141106.1

| Start Date | Start Time | End Date | End Time |
| --- | --- | --- | --- |
| 09/05/2014 | 2100 | 11/06/2014 | 2052 |

| Subject: | NSA/MET/C1 - Reprocess: Wind direction off by +30 degrees |
| --- | --- |
| DataStreams: | nsametC1.b1, nsatwrC1.b1 |
| Description: | The wind direction data are 30 degrees too high due to an alignment/offset problem during<br>this time. Problem affects all 4 tower levels in the nsatwrC1.b1 datastream, as well as<br>the wind direction data in the nsametC1.b1 datastream. Data will be reprocessed for correction. |
| Measurements: | **nsametC1.b1**: |
| | • Wind direction, vector, lower, 1-min avg(wdir_vec_mean) |
| | **nsatwrC1.b1**: |
| | • measurements contained in this datastream are unknown |

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END OF DATA