

# OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

June 1998

Prepared by Chris Fiebrich  
[gamgr@mesonet.org](mailto:gamgr@mesonet.org)

The Durant site suffered storm damage on June 4. Communications were lost to the station for about 24 hours. The datalogger, radio, and modem each had to be replaced.

The new site at Vanoss was up and running on June 17. The site currently measures all of the core and supplemental parameters with the exceptions of pressure and soil moisture.

Over the past couple of weeks, the Norman site has been upgraded to the new OASIS configuration for NCAR ASTER comparison.

And last, but not least, the ARS station A157 is currently in the process of being moved to a location NNE of the old site.

And now, on to the report...

<b>Mesonet QA Report for Standard Variables</b>	
<b>TAIR</b>	<b>Current: #1897 MCAL Sensor reporting 1-3 obs daily of -7999</b> <b>Resolved:</b>
<b>RELH</b>	<b>Current: #1814 MARS Sensor reporting as high as 110%</b> <b>Current: #1731 CLAY RH reports of -7999 on numerous occasions</b> <b>Current: #1810 KING Monthly QA shows 1.5 - 2.0 C TDEW warm bias</b> <b>Current: #1872 KETC Sensor reported 0% for over 22 hours</b> <b>Resolved: #1824 HOBA Sensor reporting -7999 replaced</b> <b>Resolved: #1669 MADI Sensor reporting -7999 replaced</b> <b>Resolved: #1864 DURA Sensor reporting 0% replaced</b> <b>Resolved: #1873 BRIS Erratic sensor replaced</b>
<b>WDIR</b>	<b>Current: #1901 OKMU 70 to 120 degrees out of phase</b> <b>Resolved:</b>
<b>WSPD</b>	<b>Current: #1913 SPEN Low wind gusts during severe storm event</b> <b>Resolved:</b>
<b>PRES</b>	<b>Current: #1915 SKIA Monthly QA indicates 1.0 mb high bias</b> <b>Current: #1916 BUTL Monthly QA indicates 1.0 mb low bias</b> <b>Resolved: #1751 ALTU Malfunctioning sensor replaced</b>
<b>SRAD</b>	<b>Current: #1839 HOOK Reporting -1 for extended periods at night</b> <b>Current: #1903 CHAN Frequent large dips in data being observed</b> <b>Current: #1917 KING Monthly QA indicates SRAD ~100 W/m<sup>2</sup> low</b> <b>Resolved:</b>
<b>RAIN</b>	<b>Current:</b> <b>Resolved: #1880 ARDM Stuck bucket repaired</b>

<b>TA9M</b>	Current: Resolved:
<b>WS2M</b>	Current: <b>Resolved: #1883 MARE Noisy bearings replaced</b>
<b>TS10</b>	Current: <b>Resolved: #1833 FAIR Gopher-damaged sensor replaced</b> <b>Resolved: #1777 MEDI Sensor with warm bias replaced</b>
<b>TB10</b>	Current: <b>#1779 WILB Monthly QA suggests 4 C cool bias</b> Resolved:
<b>TS05</b>	Current: <b>#1847 SHAW Data suggests 3-6 C cool bias</b> Resolved:
<b>TB05</b>	Current: <b>#1808 WOOD Monthly QA suggests possible 4 C warm bias</b> Current: <b>#1878 PAUL Sensor reporting values below 0 C</b> Current: <b>#1899 IDAB Sensor reporting over 50 C</b> Resolved:
<b>TS30</b>	Current: <b>Resolved: #1704 EUFA Lightning-damaged sensor replaced</b>

	<b>ARS QA Report</b>
<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: Resolved:
<b>SRAD</b>	Current: <b>Resolved: #1848 A131 Erratic sensor replaced</b>
<b>RAIN</b>	Current: <b>Resolved: #1876 A133 Replaced defective switch</b>
<b>TS05</b>	Current: <b>#1918 A159 Sensor reporting values of 80+ C in PM</b> Current: <b>#1919 A160 Sensor reporting ~15 C too warm during PM</b> Resolved: <b>#1816 A148 Sensor reporting ~25 C too warm replaced</b> Resolved: <b>#1849 A123 Large tree cut down which may have shaded</b> Resolved: <b>#1896 A158 Cool bias found to be site specific</b> Resolved: <b>#1902 A150 High, thick grass shading sensor was cut</b>
<b>TS10</b>	Current: Resolved:

<b>TS15</b>	Current: Resolved:
<b>TS30</b>	Current: <b>Resolved: #1825 A147 Sensor reporting ~15 C too warm replaced</b>

“Current” tickets are the unresolved tickets as of the last day of the month OR those tickets added based on the Monthly QA analysis.

“Resolved” tickets are the sensor problems that were fixed during the entire month.

<b>Variable</b>	<b>Description</b>
TAIR	Air temperature measured at 1.5 meters
RELH	Relative humidity measured at 1.5 meters
WDIR	Wind direction measured at 10 meters
WSPD	Wind speed measured at 10 meters
PRES	Pressure
SRAD	Incident solar radiation
RAIN	Rainfall
TA9M	Air temperature measured at 9 meters
WS2M	Wind speed measured at 2 meters
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 cm under native sod