

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

January 1998

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January turned out to be quite a mild month weather-wise. Average 1800 UTC temperatures were a couple of degrees C warmer for January than they were for December. The lack of fronts and exciting weather was also evident in a much lighter average wind field across the state for January.

All the monthly averaged fields for January looked quite smooth. No new problems were found. Other than sensor rotations, the techs worked to unclog 2 more rain gauges this month in which spiders had taken up residence. In addition, several sites had to have soil temperature repairs caused by gopher damage.

Thanks to Jerry, Tim, Sherman, Mark, and Derek for helping me get settled into my new position as QA Manager!

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #1635 ALTU Old sensor reporting too cool; replaced
RELH	Current: #1669 MADI RH sensor reporting -7999 on 3 occasions Resolved: #1618 TIPT Old sensor reporting too low; replaced Resolved: #1624 HOOK Sensor reporting erratically; replaced Resolved: #1622 WIST Old sensor reporting 0%; replaced
WDIR	Current: Resolved: #1633 HOOK Azimuth pot bad; replaced
WSPD	Current: Resolved: #1637 CLOU Failed bearing; replaced
PRES	Current: Resolved: #1620 CLAY Sensor stuck; replaced Resolved: #1636 HASK Sensor stuck; replaced
SRAD	Current: Resolved:
RAIN	Current: Resolved: #1621 WIST Evicted spider Resolved: #1632 WCEL Evicted spider
TA9M	Current: Resolved:
WS2M	Current: Resolved:

TS10	Current: #1603 MTHE Plots show about 3C too warm Current: #1604 BLAC Plots show about 3C too warm Resolved: #1579 TIPT Sensor malfunctioning due to bad mux channel Resolved: #1657 NINN Gopher chewed insulation; replaced sensor Resolved: #1603 MTHE Critter damage; replaced
TB10	Current: Resolved: #1580 TIPT Sensor malfunctioning due to bad mux channel
TS05	Current: Resolved: #1639 NINN Gopher damage to insulation; replaced sensor
TB05	Current: #1605 MEDI Plots show about 2-3C too warm Resolved:
TS30	Current: Resolved: #1640 BRIS Gopher damage to sensor; replaced

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: #1659 A181 RH reporting out of range Resolved: #1617 A121 Dewpoint error found; sensor replaced Resolved: #1623 A181 RH max out of range; sensor replaced
SRAD	Current: #1606 A123 Monthly plots show about 75 W/m2 too low Current: #1668 A131 SRAD reported 0.0 all day on 2/3/98 Resolved:
RAIN	Current: Resolved: #1651 A125 Bucket cleared and cleaned Resolved: #1652 A148 Bucket cleaned
TS05	Current: Resolved:
TS10	Current: Resolved:
TS15	Current: Resolved:
TS30	Current: Resolved:

“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.

Variable	Description
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