

# OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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Greetings all...as I'm now your new QA manager.

The Mesonet is now becoming one with nature. Last month, we had spiders living in our T/RH shelters, worms and ants in our barometer tubes, and gophers having their temp taken. In addition, we had a lightning strike at BUFF and wet sensors at NORM. Otherwise, a fairly quiet month. Some strange going ons w/the Mesonet pressures. Net radiometer domes still are not cooperating. Great news from the ARS though...nearly perfect.

<b>Mesonet QA Report for Standard Variables</b>	
<b>TAIR</b>	Current: Resolved: #1396 SALL Unable to detect problem at site, so brought it into lab to test
<b>RELH</b>	Current: #1292 HUGO Intercomparison revealed RH out of spec ~3% W.R.T. test probe Current: #1472 IDAB There are unrealistic small-amplitude variations in the data Current: #1507 WATO RH failed, 89% to 0% in 5 minutes Current: #1511 WEBB RH has been reading greater than 104% at night Resolved: #1428 WEAT Removed spider web from inside T/RH shelter Resolved: #1443 CATO Replaced sensor, output now looks good Resolved: #1461 WALT Mesocomp shows RH error > 3% Resolved: #1500 BUFF Lightning damage repair Resolved: #1505 NORM Replaced sensor after getting wet
<b>WDIR</b>	Current: #1496 BUFF Lightning Damage Resolved: #1476 WEBB Reset wind monitor direction Resolved: #1485 FTCB Wind monitor found with a 0.3 deg error
<b>WSPD</b>	Current: Resolved:
<b>PRES</b>	Current: #1514 HUGO Pres appears too high, variable Current: #1526 WYNO Pres stuck for 18hrs Current: #1528 WOOD Automatic routines detected a problem Resolved: #1381 RING Replaced sensor Resolved: #1456 HUGO Worm/muck clogging the vent tube Resolved: #1473 MIAM Replaced sensor, no visible problem evident Resolved: #1475 TAHL Replaced sensor, no visible problem evident Resolved: #1477 PUTN Ants were living in the vent tube Resolved: #1481 NORM Baro wire not making a complete connection Resolved: #1498 WYNO Baro moved to battery box, wires/tube clean
<b>SRAD</b>	Current: Resolved: #1465 ELRE Mesocomp shows a 5% error in sensor Resolved: #1503 BUFF Lightning damage

<b>RAIN</b>	Current: #1469 TAHL Underreporting, drip test~44 (50 expected) Resolved: #1333 WALT Replaced gauge Resolved: #1502 BUFF Lightning damage
<b>TA9M</b>	Current: Resolved:
<b>WS2M</b>	Current: Resolved: #1460 WALT Sensor bent back perpendicular
<b>TS10</b>	Current: #1510 ERIC Sensor failure Resolved: #1501 BUFF Lightning damage
<b>TB10</b>	Current: Resolved: #1452 CHER Repaired suspect wire connecting to mux Resolved: #1453 CHER Repaired suspect wire
<b>TS05</b>	Current: Resolved:
<b>TB05</b>	Current: #1497 GOOD Sensor failed Resolved:
<b>TS30</b>	Current: #1525 WOOD Sensor failed, probable gopher damage Resolved: #1433 HOBA Checked out okay, within range Resolved: #1468 HOBA Replaced sensor

### ARS QA Report

<b>TAIR</b>	Current: Resolved:
<b>RELH</b>	Current: Resolved:
<b>SRAD</b>	Current: #A131 SRAD about 100W/m2 too low in monthly averaging Resolved:
<b>RAIN</b>	Current: Resolved:
<b>TS05</b>	Current: Resolved:
<b>TS10</b>	Current: Resolved:
<b>TS15</b>	Current: #A144 Monthly average 5C too high Resolved:

<b>TS30</b>	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.

<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