

**OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT**  
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Communication upgrades at Mesonet sites began in January. The new narrowband radio system will replace the current "wideband" VHF system used by the Mesonet since 1992.

Radios were replaced to improve communications at 4 of the ARS sites.

<b>Mesonet QA Report for Standard Variables</b>	
<b>TAIR</b>	Current: <b>Resolved: #9031 WIST Replaced sensor and cable that had been damaged by rodent</b>
<b>RELH</b>	Current: <b>Resolved: #8522 HINT Replaced sensor that MesoComp showed had a 10% high bias</b>
<b>WDIR</b>	Current: Resolved:
<b>WSPD</b>	Current: Resolved:
<b>PRES</b>	Current: <b>Resolved: #8502 BLAC Replaced failed barometer</b>
<b>SRAD</b>	Current: Resolved:
<b>RAIN</b>	Current: <b>Resolved: #8532 BRIS Replaced switch on gauge that had under-reported January 17</b> <b>Resolved: #8533 HINT Replaced switch on gauge that had under-reported January 17</b>
<b>TA9M</b>	Current: Resolved:
<b>WS2M</b>	<b>Current: #9044 WALT Monthly QA indicates starting threshold problems</b> Resolved:
<b>TS10</b>	Current: Resolved:
<b>TB10</b>	Current: Resolved:

<b>TS05</b>	Current: <b>Resolved: #8527 DURA Replaced sensor that had a 1° C bias</b>
<b>TB05</b>	Current: <b>Resolved: #8529 NOWA Replaced sensor that had a 3° C low bias</b>
<b>TS30</b>	Current: <b>Resolved: #8456 BIXB Replaced sensor that had reported erratic data</b> <b>Resolved: #8463 PERK Replaced sensor that had reported out-of-range data</b> <b>Resolved: #8523 BURB Replaced sensor that had a 5° C high bias</b>
<b>TR05</b>	Current: Resolved:
<b>TR25</b>	Current: Resolved:
<b>TR60</b>	Current: Resolved:

<b>ARS QA Report</b>	
<b>TAIR</b>	Current: <b>Resolved: #8517 A132 Replaced sensor that had rodent damage</b>
<b>RELH</b>	Current: <b>Resolved: #8516 A132 Replaced sensor that had rodent damage</b>
<b>SRAD</b>	Current: <b>Resolved: #8519 A145 Replaced sensor that MesoComp showed had a 13% bias</b> <b>Resolved: #8520 A160 Replaced sensor that MesoComp showed had a 10% bias</b>
<b>RAIN</b>	Current: Resolved:
<b>TS05</b>	<b>Current: #9062 A133 Monthly QA indicates TS05 has 3 deg C low bias</b> Resolved:
<b>TS10</b>	Current: Resolved:
<b>TS15</b>	<b>Current: #8518 A161 December Monthly QA indicates 2 C warm bias</b> Resolved:
<b>TS30</b>	<b>Current: #9063 A164 Monthly QA indicates 3 deg C high bias</b> <b>Resolved: #8462 A166 Replaced sensor that had been damaged by rodent</b> <b>Resolved: #9034 A161 Replaced sensor that had slight high bias</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
TR05	Soil moisture: Calibrated DeltaT measured at 5 cm under native sod
TR25	Soil moisture: Calibrated DeltaT measured at 25 cm under native sod
TR60	Soil moisture: Calibrated DeltaT measured at 60 cm under native sod
TR75	Soil moisture: Calibrated DeltaT measured at 75 cm under native sod