

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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- HMP-45C Temp/Relh sensors were installed at an additional 14 Mesonet sites
- OASIS sensors were decommissioned at WALT
- At the ARS Micronet, 14 sites were decommissioned in February in preparation for the move to the Ft. Cobb Watershed: A130, A137, A138, A145, A151, A155, A158, A161, A164, A165, A166, A167, A168, A181
- The biggest QA problem this month was caused by exposed soil temperature sensors. The sensors at nine sites have experienced heaving because of the freeze/thaw cycles taking place this winter. The sites impacted include: COPA, HOBA, KING, MARE, MIAM, REDR, SHAW, VINI, and WYNO.

Mesonet QA Report for Standard Variables	
TAIR	Current: #10948 HUGO Temperature spiking and dipping 5 to 15 °C Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
WSPD	Current: Resolved: #10855 HUGO Replaced sensor that had developed a low bias Resolved: #11012 WEBB Replaced prop that had been spinning free on the shaft
PRES	Current: Resolved:
SRAD	Current: Resolved: #10835 MTHE Replaced sensor that had developed a low bias
RAIN	Current: Resolved: #10893 WEBB Replaced reed switch on gauge
TA9M	Current: Resolved:

WS2M	Current: Resolved: #10775 ALTU Replaced sensor that had developed a starting threshold problem Resolved: #10777 VANO Replaced sensor that had developed a starting threshold Problem
TS10	Current: #10836 OKMU Sensor experiencing temperature dips Resolved:
TB10	Current: #11106 VINI TB10 and TB05 appear to be cross-wired Resolved: #10730 VINI Reinstalled exposed sensor
TS05	Current: Resolved:
TB05	Current: #10887 BREC Sensor appears to be exposed Current: #10746 COPA Sensor appears to be exposed Current: #10918 KING Sensor appears to be exposed Current: #11040 SHAW Sensor appears to be exposed Resolved: #10747 HOBA Reinstalled exposed sensor Resolved: #10732 MARE Reinstalled exposed sensor Resolved: #10736 MIAM Reinstalled exposed sensor Resolved: #10735 REDR Reinstalled exposed sensor Resolved: #10731 VINI Reinstalled exposed sensor Resolved: #10812 WYNO Reinstalled exposed sensor
TS30	Current: #11105 GRA2 Sensor has developed a 3 °C bias Current: #11107 HECT Sporadic dips of 1.5 °C have occurred Resolved:
TR05	Current: Resolved:
TR25	Current: Resolved:
TR60	Current: Resolved:
TR75	Current: Resolved:

	ARS QA Report
TAIR	Current: Resolved:

RELH	Current: Resolved: #10871 A149 Replaced sensor that had only been maxing out at 95%
WDIR	Current: Resolved:
SRAD	Current: #10872 A163 Sensor has developed a 50 to 100 W/m² low bias Resolved:
RAIN	Current: Resolved:
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
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