

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
November 2003

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Happy Holidays to each of you and your families!

The Mesonet Technicians resolved over 70 trouble tickets during November. Batteries at 13 sites were replaced; 6 of which were due to an extended period of cloud cover. Scheduled rotations of sensors included 15 wind sentries (WS2M and WS9M), 15 pyranometers, 4 FastTherms (TA15 and TA9M), and 2 nose cones on prop-vane anemometers.

Janet

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: Resolved: #8365 WALT Replaced sensor that exceeded 104% during periods of high humidity
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved: #8401 WEBB Removed insects from vent tube Resolved: #8272 INOL Tightened loose ground wire and removed webs from a vent tube that caused erratic pressure data
SRAD	Current: Resolved: #8369 VANO Replaced broken level on sensor that had developed a 100 W m⁻² high bias Resolved: #8371 PUTN Replaced pyranometer that had developed a 75W m⁻² low bias
RAIN	Current: Resolved: #8306 MTHE Removed spider webs from buckets that caused gauge to under-report on Nov. 6 Resolved: #8370 BOWL Removed spider webs from buckets that caused gauge to not report tips
TA9M	Current: Resolved: #8290 ERIC Repaired bad cable between junction box and logger that caused out-of-range temperature data

WS2M	Current: Resolved:
TS10	Current: Resolved:
TB10	Current: Resolved:
TS05	Current: Resolved:
TB05	Current: Resolved:
TS30	Current: #8463 PERK Sensor reporting out-of-range temperature data Resolved: #8360 LAHO Replaced sensor damaged by rodents
TR05	Current: #8437 OKEM Soil moisture spiking and dipping several times per day Current: #8463 SEIL Sensor reporting out-of-range data Resolved: #8275 APAC Replaced sensor damaged by gophers; found sensor at depth 20cm
TR25	Current: Resolved: #8213 HOLL Replaced sensor that had reported out-of-range data
TR60	Current: Resolved:
TR75	Current: Resolved:

ARS QA Report	
TAIR	Current: Resolved: #8274 A152 Vandals had removed sensor from shield causing erroneous temperature data
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:

RAIN	Current: Resolved: #8368 A134 Replaced switch on gauge that did not report Nov. 7 and 8
TS05	Current: Resolved:
TS10	Current: Resolved:
TS15	Current: Resolved:
TS30	Current: #8462 A166 Sensor reporting erratic temperatures 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