

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

November 2005

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- The Mesonet Technicians resolved 99 trouble tickets in the month of November. Their tasks included:
 - Data logger upgrades at Broken Bow (BROK), Burbank (BURB), Clayton (CLAY), and Mt. Herman (MTHE).
 - 13 RF Modems upgrades
 - Rotations of 2 barometers, 4 wind monitor nose cones, 8 wind sentries, and 17 fasttherms
 - An upgrade of the data logger enclosure at the Burbank (BURB) Mesonet site
- At the Little Washita Micronet, soil moisture was installed at A132. Soil moisture for A132 is measured at 5, 25, and 45 cm.
- The rain event at the end of October helped us identify a few rain gauges that had been clogged by spiders and dirt. Since then the bad gauges were cleaned. Technicians have continued to conduct fall pass for sites, which includes checking rain gauges.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	12452	TISH	Replaced sensor that was damaged
RELH	Resolved	12451	HOLL	Replaced sensor that had damaged wires
WDIR	Current	12580	HOOK	Sensor has a directional bias
	Current	12583	CAMA	Sensor has a directional bias
WSPD	Current	12581	MARE	Sensor has developed a low bias
PRES	N/A			
SRAD	Resolved	12535	PAWN	Replaced sensor that had developed a high bias
	Resolved	12586	INOL	Cleaned the sensor that was dirty
	Resolved	12493	ACME	Cleaned the sensor that was dirty
RAIN	Resolved	12453	ALV2	Cleaned gauge that had underestimated precip.

	Resolved	12502	BURB	Cleaned clogged gauge
	Resolved	12515	RING	Repaired rain gauge
	Resolved	12562	BRIS	Cleaned clogged gauge
TA9M	Resolved	12430	TAHL	Replaced sensor that had failed
WS2M	Current	12403	WOOD	Sensor has developed a starting threshold problem
	Resolved	12413	WALT	Replaced sensor that had developed a starting threshold problem
	Resolved	12415	ELRE	Replaced sensor that had developed a low bias
	Resolved	12518	TALI	Replaced sensor that had developed a starting threshold problem
TS10	N/A			
TB10	N/A			
TS05	N/A			
TB05	Current	12327	MAYR	Sensor has developed a high bias
TS30	N/A			
TR05	Current	12571	ERIC	Sensor has stopped heating
TR25	Current	12516	VANO	Noise has developed in the soil moisture data
	Resolved	12437	CHAN	Replaced sensor that had developed a preferential flow problem
TR60	N/A			
TR75	N/A			

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	12572	A121	Replaced sensor that had developed a high bias
RELH	N/A			
SRAD	Resolved	12417	A121	Replaced sensor that had developed a low bias
RAIN	N/A			
TS10	Resolved	12534	A133	Reinstalled sensors that were heaved
TB10	N/A			
TS05	N/A			
TB05	N/A			
TS30	N/A			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	Resolved	12455	F105	Cleaned clogged gauge
TS05	Resolved	12578	F113	Fixed sensor wiring (also affects TS15)
TS10	N/A			
TS15	N/A			
TS30	N/A			

VW05	N/A
VW25	N/A
VW45	N/A

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
VW05	Soil moisture: Volumetric water content measured at 5 cm under native sod
VW25	Soil moisture: Volumetric water content measured at 25 cm under native sod
VW45	Soil moisture: Volumetric water content measured at 45 cm under native sod