

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
October 2005

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- The Mesonet Technicians rotated 6 wind sentries, 5 nose cones, 2 barometers, and 2 Fasttherms.
- The datalogger at Sulphur (SULP) was upgraded to a CR23X.
- On 1 October the Fittstown (FITT) Mesonet site was struck by lightning. This affected soil moisture and soil temperature data until 4 October.
- The multiplexer at Mangum (MANG) failed 24 October. Sub-surface measurements have been compromised.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Current	12452	TISH	Sensor reporting out-of-range values
	Resolved	12378	VINI	Fixed wiring in sensor
RELH	Current	12451	HOLL	Sensor reporting out-of-range values
	Resolved	12383	WATO	Fixed sensor that had become unplugged
WDIR	N/A			
WSPD	Resolved	12426	WILB	Removed grass clippings that had become stuck on the prop
PRES	Resolved	12407	VANO	Fixed wiring in sensor
SRAD	Resolved	12421	HASK	Replaced sensor that had developed a low bias
RAIN	Current	12453	ALV2	Sensor has underreported rainfall amounts
	Resolved	12454	BIXB	Fixed sensor that was not reporting rainfall
TA9M	Current	12430	TAHL	Sensor reporting out-of-range values

WS2M	Current	12415	ELRE	Sensor has developed a low bias
	Current	12413	WALT	Sensor has developed a starting threshold problem
	Current	12403	WOOD	Sensor has developed a starting threshold problem
TS10	Resolved	12445	FAIR	Replaced sensor that had developed a low bias
TB10	Resolved	12400	BURN	Replaced sensor that had developed a low bias
TS05	Resolved	12379	WASH	Replaced sensor that was reporting erratic data
	Resolved	12425	ACME	Replaced sensor that had developed a high bias
	Resolved	12432	CHAN	Replaced sensor that had developed a high bias
	Resolved	12447	SEIL	Replaced sensor that had developed a bias
TB05	Current	12327	MAYR	Sensor has developed a high bias
TS30	N/A			
TR05	N/A			
TR25	Current	12437	CHAN	Sensor has developed a preferential flow problem
TR60	N/A			
TR75	N/A			

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			

SRAD	Current	12417	A121	Sensor has developed a low bias
RAIN	Resolved	12422	A159	Fixed sensor that was not reporting rainfall
TS10	N/A			
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	Current	12455	F105	Rain gauge appears to be clogged
	Resolved	12380	F111	Fixed sensor that was clogged
TS05	N/A			
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