

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

January 2011

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- Mesonet technicians performed scheduled rotations of 5 dataloggers, 1 wind monitor (WSPD) and 1 wind vane (WDIR).
- The aspirator fan at the Waurika (WAUR) site affected air temperature data from 26 January 2011 through 28 January 2011, appropriate data flagged as erroneous.
- The multiplexer at the Bristow (BRIS) site is causing errant spikes in soil moisture and soil temperature data beginning 8 February 2011, appropriate data flagged as erroneous.
- ARS Watershed sites A282, A262, A249, A234 and A235 were installed during January 2011.
- Results from Fall Pass 2010 are now available online at:
 - http://www.mesonet.org/index.php/site_passes

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Resolved	20704	CLAY	Sensor had a low bias during high humidity
	Resolved	20782	PERK	Sensor had a low bias during high humidity
	Current	20780	TALI	Sensor has a low bias during high humidity
	Current	20781	SALL	Sensor has a low bias during high humidity
	Current	20783	VINI	Sensor has a low bias during high humidity
WSPD	Resolved	20729	OILT	Sensor had a starting threshold problem
	Resolved	20772	MANG	Sensor had a starting threshold problem
WDIR				
PRES				
SRAD				
RAIN	Resolved	20612	NEWK	Spider web caused rain gauge to miss rain event

TA9M				
WS2M				
TS10	Resolved	20779	ALV2	Sensor had a low bias
TB10	Resolved	20611	ALV2	Sensor had a bias
	Current	20785	DURA	Sensor has a low bias
TS05	Resolved	20535	BEAV	Sensor had a low bias
TB05				
TS30	Resolved	20479	SEIL	Sensor had a low bias
	Resolved	20480	HINT	Sensor had a low bias
	Resolved	20536	ARNE	Sensor reported errant spikes in data
	Resolved	20613	FREE	Sensor reported errant values
TR05				
TR25				
TR60				
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	20777	F112	Rain gauge has a high bias
VW05	Current	20762	F110	Soil moisture reporting errant spikes in data
VW25				
VW45				
V05T				
V25T				
V45T				

“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
V05T	Soil Temperature measured at 5 cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod