

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

December 2011

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- Mesonet technicians performed scheduled rotations of 3 temperature and relative humidity sensors (RELH), 8 wind monitor nose cones (WSPD), 6 windsentries (WS2M), 2 pyranometers (SRAD) and 2 rain gauges (RAIN).
- Fall Pass 2011 ended on 22 December 2011.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Resolved	22430	PAWN	Sensor has a low bias during high humidity
WSPD				
WDIR				
PRES				
SRAD	Resolved	22431	NEWK	Sensor has a low bias compared to neighbors
	Resolved	22328	CHER	Sensor has a low bias
	Resolved	22329	WEBR	Sensor has a low bias
RAIN	Resolved	22367	WILB	Rain gauge missed rain event
TA9M	Current	22446	WAUR	Sensor has a low bias after rainfall
WS2M	Resolved	22379	WEST	Sensor had a starting threshold problem
	Current	22451	DURA	Sensor has a starting threshold problem
TS10	Resolved	22439	REDR	Sensor reporting errant increases and decreases
	Current	22452	SKIA	Sensor reporting errant spikes in data

TB10	Resolved	22457	CAMA	Sensor had a bias
	Resolved	22434	SKIA	Sensor had a low bias
	Resolved	22377	CHER	Sensor had a high bias
	Resolved	21785	BUTL	Sensor had a low bias
	Current	22459	FITT	Sensor has a low bias
TS05	Resolved	21620	ALV2	Sensor had a low bias
	Current	22460	ERIC	Sensor has a low bias
	Current	22436	APAC	Sensor has a low bias
TB05	Resolved	22294	CAMA	Sensor had a low bias
	Resolved	22438	REDR	Sensor reporting errant increases and decreases
	Resolved	22437	BUTL	Sensor had a low bias
	Resolved	21764	CHER	Sensor had a low bias
	Current	22460	ERIC	Sensor has a low bias
	Current	22436	APAC	Sensor has a low bias
TS30	Current	22458	WIST	Sensor reports errant spikes in data
TR05	Resolved	22449	MRSH	5cm and 25cm soil moisture were cross wired
	Resolved	21770	BESS	Sensor reporting errant values
TR25	Resolved	22432	MRSH	5cm and 25cm soil moisture were cross wired
	Resolved	22378	ALTU	Sensor reporting errant data after lightning strike
	Resolved	22314	WEBR	Soil moisture reporting errant values due to fire
	Current	22456	MRSH	Stuck at 1.0 fractional water after replacement
	Current	22447	ALTU	Sensor reporting errant data since lightning strike
TR60				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	22454	A131	Rain gauge under reports rainfall
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN				
VW05				
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
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