

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

February 2013

Prepared by [Alexandria McCombs](#)
gamgr@mesonet.org

- Mesonet technicians performed scheduled rotations of 2 barometers (PRES), 2 batteries (BVAS), 2 current excitations, 1 datalogger (LOGG), 1 fasttherm (TAIR), 4 pyranometers (SRAD), 1 rain gauge (RAIN), 3 temperature and relative humidity sensors (RELH) and 4 windsentries (WS2M).
- Multiplexer at Altus (ALTU) site is causing errant spikes in all soil temperature data beginning 7 February 2013, appropriate data flagged as erroneous.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH	Resolved	SHAW	24539	Sensor reported large negative values
	Resolved	BIXB	24561	Sensor has a low bias during high humidity
WSPD	Resolved	MEDI	24592	Sensor reported errant spikes at onset of rain
WDIR				
PRES	Current	COOK	24607	Sensor has a low bias
SRAD	Resolved	BIXB	24580	Bird droppings caused low bias
	Resolved	ACME	24549	Sensor had a low bias
RAIN				
TA9M	Resolved	JAYX	24548	Sensor has a low bias after rainfall
	Resolved	ACME	24573	Sensor has a low bias after rainfall

WS2M				
TS10	Current	FTCB	24275	Sensor reports errant spikes in data
TB10	Resolved	WEBR	24570	Sensor had a low bias
	Current	WILB	24595	Sensor reports errant spikes in data
	Current	STIG	24569	Bare plot has large diurnal cycle
	Current	BLAC	24599	Bare plot temperature has a large diurnal cycle
	Current	HOOK	24616	Bare plot temperature has muted diurnal cycle
	Current	MANG	24617	Bare plot temperature has a large diurnal cycle
	Current	INOL	24550	Sensor reports errant spikes in temperature
	Current	NOWA	24552	Sensor has a low bias
	Current	ADAX	24568	Sensor reports errant spikes in soil temperature
	Current	PAWN	24575	Bare plot temperature has a large diurnal cycle
TS05	Resolved	WYNO	24219	Sensor had a low bias
	Resolved	CARL	24272	Sensor had a low bias
	Resolved	PORT	24264	Sensor had a low bias
	Resolved	SALL	24554	Sensor reported large negative values
TB05	Resolved	GUTH	24269	Sensor had a low bias
	Current	BURB	24601	Sensor has a low bias
	Current	TALI	24189	Sensor has a low bias
	Current	TAHL	24191	Sensor has a low bias
	Current	MINC	24562	Errant spikes in temperature after rainfall
	Current	PAUL	24569	Sensor reporting errant spikes in data
TS30	Resolved	PORT	24578	Sensor had a low bias
	Resolved	KIN2	24596	Sensor reported errant spikes in data
	Current	MAYR	24577	Sensor has a low bias
	Current	KETC	24593	Sensor reports errant spikes in data
	Current	PERK	24567	Sensor reports errant spikes in data

TR05	Current BYAR 24618 Sensor reporting errant values
TR25	
TR60	

ARS Fort Cobb Watershed QA Report

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

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05				
VW25				
VW45				
V05T	Resolved	A136	24572	Errant spikes in soil temperature
V25T	Resolved	A154	24598	Sensor had a low bias in soil temperature data
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