

**OKLAHOMA MESONET / ARS  
QUALITY ASSURANCE REPORT**

November 2015

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- Mesonet technicians completed scheduled rotations of 2 batteries (BATV), 1 barometer (PRES), 2 rain gauges (RAIN), 4 humidity sensors (RELH), 3 pyranometers (SRAD), and 1 wind sentry (WS2M).
- The datalogger at the Talala Mesonet site (TALA) malfunctioned and stopped taking observations 30 October 2015 22:30 UTC. The datalogger was replaced 4 November 2015 18:00. All observations between that time period were lost.

**Mesonet QA Report for Standard Variables**

<b>Variable</b>	<b>Status</b>	<b>Site</b>	<b>Ticket</b>	<b>Remarks</b>
<b>TAIR</b>	<b>Resolved</b>	<b>NRMN</b>	<b>28974</b>	<b>High bias; replaced.</b>
<b>RELH</b>				
<b>WSPD</b>				
<b>WDIR</b>				
<b>PRES</b>				
<b>SRAD</b>				

<b>RAIN</b>	<b>Resolved</b>	<b>FTCB</b>	<b>28899</b>	<b>Gauge clogged; cleaned.</b>
	<b>Resolved</b>	<b>REDR</b>	<b>28938</b>	<b>Cover knocked off; replaced.</b>
<b>TA9M</b>	<b>Resolved</b>	<b>IDAB</b>	<b>28937</b>	<b>High bias; replaced.</b>
<b>WS2M</b>	<b>Current</b>	<b>CHER</b>	<b>28979</b>	<b>Starting threshold problem.</b>
	<b>Current</b>	<b>HOLD</b>	<b>28990</b>	<b>Starting threshold problem.</b>
<b>TB10</b>	<b>Resolved</b>	<b>LANE</b>	<b>28802</b>	<b>Sensor at 5cm; reburied at 10cm.</b>
<b>TS05</b>	<b>Resolved</b>	<b>BURB</b>	<b>28361</b>	<b>Sensor at 10cm; reburied at 5cm.</b>
	<b>Resolved</b>	<b>ERIC</b>	<b>28807</b>	<b>Sensor at 10cm; reburied at 5cm.</b>
	<b>Resolved</b>	<b>VINI</b>	<b>28767</b>	<b>Sensor at 10cm; reburied at 5cm.</b>
<b>TS10</b>				
<b>TS25</b>				
<b>TS60</b>				
<b>TR05</b>	<b>Resolved</b>	<b>OKCE</b>	<b>28900</b>	<b>Poor response to saturated soil.</b>
	<b>Current</b>	<b>ALV2</b>	<b>28901</b>	<b>Poor response to saturated soil.</b>
	<b>Current</b>	<b>APAC</b>	<b>28948</b>	<b>Poor response to saturated soil.</b>

	<b>Current</b>	<b>CHIC</b>	<b>28949</b>	<b>Poor response to saturated soil.</b>
<b>TRB10</b>				
<b>TRS10</b>				
<b>TR25</b>				
<b>TR60</b>	<b>Resolved</b>	<b>NEWK</b>	<b>28843</b>	<b>Errant spikes; resolved by itself.</b>

**ARS Little Washita Watershed QA Report**

<b>Variable</b>	<b>Status</b>	<b>Site</b>	<b>Ticket</b>	<b>Remarks</b>
<b>RAIN</b>	<b>Current</b>	<b>A131</b>	<b>28984</b>	<b>Gauge under reports rainfall.</b>
<b>VW05</b>				
<b>VW25</b>	<b>Current</b>	<b>A282</b>	<b>28983</b>	<b>Errant spikes in data.</b>
<b>VW45</b>				
<b>V05T</b>				

<b>V25T</b>	
<b>V45T</b>	

**ARS Fort Cobb Watershed QA Report**

<b>Variable</b>	<b>Status</b>	<b>Site</b>	<b>Ticket</b>	<b>Remarks</b>
<b>RAIN</b>				
<b>VW05</b>				
<b>VW25</b>				
<b>VW45</b>				
<b>V05T</b>				
<b>V25T</b>				
<b>V45T</b>				

“Current” tickets are unresolved tickets as of the last day of the month OR tickets added after Monthly QA analysis.  
 “Resolved” tickets are the sensor problems 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
TB10	Soil temperature measured at 10 cm under bare sod
TS05	Soil temperature measured at 5 cm under native soil
TS10	Soil temperature measured at 10 cm under native soil
TS25	Soil temperature measured at 25 cm under native soil
TS60	Soil temperature measured at 60 cm under native sod
TR05	Soil moisture: Calibrated DeltaT measured at 5 cm under native sod
TRB10	Soil moisture: Calibrated DeltaT measured at 10 cm under bare soil
TRS10	Soil moisture: Calibrated DeltaT measured at 10 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 5cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod