

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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- Mesonet Technicians rotated 9 wind sentries, 2 barometers, 2 temperature and relative humidity sensors, 1 pyranometer, and 1 thermometer.
- A lightning strike occurred at the Guthrie (GUTH) Mesonet site. The datalogger, as well as SRAD, soil temperature, and soil moisture, were impacted. Data were affected from 10 July 2007 at 04:05 UTC to 12 July 2007 at 20:30 UTC.
- The voltage regulator failed at the Vanoss (VANO) Mesonet site. This caused power issues, which created a problem for 5 and 30 minute data. Sporadic data loss occurred from 16 to 18 July 2007.
- The multiplexer at the Washington (WASH) Mesonet site caused sub-surface sensors to report erroneous data. A new multiplexer was installed to correct the problem. Sub-surface data (e.g., soil moisture and temperature) were affected from 30 June to 5 July 2007.
- Results from Spring Pass 2007 are now available online:
<http://www.mesonet.org/sitepass>

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	15194	BURN	Sensor returned to radiation shield
RELH	Current	15346	BURB	Sensor does not report values over 95%
WSPD	Current	15348	MADI	Sensor has developed a starting threshold problem
WDIR	N/A			
PRES	N/A			
SRAD	Resolved	15297	ALV2	Cleaned sensor that had developed a bias
	Resolved	15299	GUTH	Replaced sensor that was damaged by lightning
RAIN	Resolved	15230	HECT	Fixed gauge that under-reported rain

	Resolved	15283	FORA	Fixed failed rain gauge
	Resolved	15298	ALV2	Fixed gauge that under-reported rain
	Resolved	15325	APAC	Fixed failed rain gauge
TA9M	N/A			
WS2M	N/A			
TS10	Resolved	15287	HECT	Replaced sensor that had developed a high bias
	Resolved	15321	TIPT	Replaced sensor that had developed a high bias
TB10	Resolved	15306	GUTH	Replaced sensor damaged by lightning
TS05	Resolved	15285	TIPT	Replaced sensor that had developed a low bias
	Resolved	15286	OKMU	Replaced sensor that had developed a high bias
	Resolved	15240	HECT	Replaced sensor that had developed a high bias
	Resolved	15307	GUTH	Replaced sensor damaged by lightning
	Resolved	15324	KING	Replaced sensor that had developed a high bias
TB05	Current	15296	TALI	Sensor reporting erroneous steps in temperature
	Resolved	15178	COOK	Sensor has developed a low bias
	Resolved	15294	GUTH	Replaced sensor damaged by lightning
TS30	Current	15341	BYAR	Sensor has developed a low bias
	Resolved	15295	GUTH	Replaced sensor damaged by lightning
TR05	Resolved	15292	GUTH	Replaced sensor damaged by lightning
	Resolved	15310	SPEN	Sensor does not fully saturate
TR25	Resolved	15188	INOL	Replaced sensor that failed
	Resolved	15282	LANE	Replaced sensor that failed
	Resolved	15293	GUTH	Replaced sensor damaged by lightning

TR60	N/A			
TR75	Current	15279	NRMN	Sensor not responding to changes in moisture
	Current	15335	TIPT	Sensor reporting erratic data

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	N/A			
TS10	Resolved	15281	A153	Sensor has developed a low bias
TS15	N/A			
TS30	N/A			
VW05	Current	15329	A121	Sensor reporting erratic data
	Current	15334	A146	Sensor reporting near zero values
	Resolved	15291	A132	Replaced sensor that reported erratic data
VW25	N/A			
VW45	N/A			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	N/A			
TS10	Resolved	15272	F105	Replaced sensor that had developed a high bias
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