

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

November 2006

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- Mesonet Technicians resolved over 200 trouble tickets in November! Along with trouble tickets, Technicians conducted routine maintenance at sites and completed other tasks, including:
 - Scheduled rotations of 35 pyranometers, 8 barometers, 7 temperature and relative humidity sensors, 6 temperature sensors, 4 wind sentries, and a wind monitor nose cone
 - Enclosure upgrades occurred at 8 Mesonet sites
 - SDM-SIO4s were installed at an additional 8 Mesonet sites
- 2-meter wind speed sensors were installed at 6 Mesonet sites: Claremore (CLRM), Fairview (FAIR), Inola (INOL), Mt. Herman (MTHE), Retrop (RETR), and Sallisaw (SALL)
- Spikes in soil temperature were observed by the Spencer (SPEN) Mesonet site. This affected all soil temperature data from 23 October to 9 November 2006
- Door switches failed at two Mesonet sites: Pauls Valley (PAUL) and Durant (DURA). Data were intermittently flagged from 8 to 13 November 2006 for PAUL and 16 to 20 November 2006 for DURA
- A change in the current excitation device at Tishomingo (TISH) caused the 5 cm soil moisture data to shift. Data were flagged from 22 September to 1 November 2006
- Erratic data were observed in the 5 and 15 cm soil temperature data from F101. Data were flagged from 16 to 21 November 2006.
- Results from Summer Pass 2006 are now available online: <http://www.mesonet.org/sitepass>

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
WDIR	N/A			
WSPD	N/A			
PRES	Current	14514	COOK	Sensor reporting unchanged values
SRAD	N/A			
RAIN	Current	14513	WEBB	Gauge missed a rain event
	Resolved	14486	MTHE	Cleaned gauge that was clogged

TA9M	N/A			
WS2M	Resolved	14292	TIPT	Replaced sensor that had developed a starting threshold problem
	Resolved	14473	ERIC	Replaced sensor that had developed a starting threshold problem
	Resolved	14326	ALTU	Fixed wiring on non-responsive sensor
TS10	Resolved	14309	LANE	Replaced sensor that had developed a high bias
TB10	Current	14496	HUGO	Sensor has high bias
	Resolved	14301	PORT	Replaced sensor that had developed a low bias
	Resolved	14311	ADAX	Replaced sensor that had developed a low bias
	Resolved	14312	TIPT	Replaced sensor that had developed a low bias
TS05	Resolved	14533	IDAB	Replaced sensor that had developed a low bias
TB05	Current	14302	WOOD	Sensor has a low bias
	Current	14454	ADAX	Sensor reporting erratic data
	Resolved	14073	TIPT	Replaced sensor that had developed a high bias
TS30	Current	14308	WILB	Sensor has low bias
	Resolved	14307	WALT	Replaced sensor that had developed a low bias
	Resolved	14077	CHER	Replaced sensor that had developed a high bias
	Resolved	14481	LANE	Replaced sensor that had developed a high bias
	Resolved	14534	IDAB	Replaced sensor that had developed a low bias
TR05	N/A			
TR25	N/A			
TR60	N/A			
TR75	Current	14288	VANO	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	Current	14317	A154	Sensor has developed a low bias
	Current	14319	A159	Sensor has developed a low bias
	Resolved	14318	A153	Replaced sensor that had developed a low bias
TS10	Current	14535	A121	Sensor had developed a high bias
	Current	14536	A150	Sensor reporting same temperatures as other depths
TS15	N/A			
TS30	N/A			
VW05	N/A			
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	Current	14526	F111	Gauge missed rain events
	Current	14527	F112	Gauge missed rain events
TS05	N/A			
TS10	N/A			
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