

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

December 2006

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- During the holiday shortened month, Mesonet Technicians resolved 62 trouble tickets. Along with trouble tickets, Technicians conducted routine maintenance at sites and completed other tasks, including:
 - Scheduled rotations of 3 temperature and relative humidity sensors and 1 wind speed sensor.
 - Enclosure upgrade at Stigler (STIG)
- Technicians successfully resolved all Mesonet trouble tickets by 15 December. The Oklahoma Mesonet went from 15 - 30 December 2006 without any unresolved trouble tickets!
- All soil moisture data at A159 were flagged from 15 - 21 December 2006 due to a wiring problem.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	14515	SKIA	Replaced sensor that was reporting negative spikes in data.
RELH	Current	14588	ERIC	Sensor easily becomes wet during rain events.
	Current	14589	RETR	Sensor easily becomes wet during rain events.
	Resolved	14537	LANE	Replaced sensor that was collecting water.
WDIR	N/A			
WSPD	N/A			
PRES	Resolved	14514	COOK	Fixed wire connection problem.
SRAD	N/A			
RAIN	Current	14593	WEBB	Sensor does not report as much rain as neighbors.
	Resolved	14513	WEBB	Cleaned rain gauge that was not reporting as much rain as neighbors.
TA9M	Current	14595	GRA2	Sensor reports large negative spikes.
WS2M	N/A			

TS10	Resolved	14577	WALT	Replaced sensor that had developed a low bias.
TB10	Current	14597	HOBA	Sensor developed a low bias.
	Resolved	14496	HUGO	Replaced sensor that had developed a high bias.
TS05	Current	14598	OKEM	Sensor developed a low bias.
	Resolved	14578	WALT	Replaced sensor that had developed a low bias.
TB05	Current	14596	MEDF	Sensor developed a low bias.
	Resolved	14454	ADAX	Replaced sensor that reported large negative spikes in data.
	Resolved	14302	WOOD	Replaced sensor that had developed a low bias.
TS30	Current	14601	VINI	Sensor developed a low bias.
	Resolved	14308	WILB	Replaced sensor that had developed a low bias.
TR05	N/A			
TR25	N/A			
TR60	N/A			
TR75	Resolved	14288	VANO	Removed sensor that had stopped reporting.

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	Resolved	14318	A153	Replaced sensor that had developed a low bias.
	Resolved	14540	A159	Replaced sensor that had developed a low bias.
TS10	N/A			
TS15	Resolved	14539	A150	Replaced sensor that had developed a high bias.

TS30	Resolved	14532	A153	Replaced sensor that had developed a low bias.
VW05	Current	14600	A134	Sensor malfunctioning.
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	14590	F114	Sensor does not report as much rain as neighbors.
	Resolved	14526	F111	Removed spider web that was clogging rain gauge.
	Resolved	14527	F112	Removed spider web that was clogging rain gauge.
TS05	Current	14592	F101	Sensor has a low bias.
	Current	14594	F115	Sensor has a low bias.
TS10	N/A			
TS15	N/A			
TS30	N/A			
VW05	N/A			
VW25	Current	14591	F103	Sensor does not report.
VW45	Current	14599	F113	Sensor malfunctioning.

“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