

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
 March 2007

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- Mesonet Technicians experienced a quiet, stress free month. Basic maintenance and trouble ticket fixes were the major tasks in March.
- For the Mesonet, scheduled rotations of 2 barometers, 2 relative humidity sensors, and 2 wind sentries were performed.
- For the ARS micronets, scheduled rotations of 5 temperature and relative humidity sensors were conducted.
- Dataloggers for 11 repeaters were upgraded from CR10Ts to CR10Xs.
- The reference temperature sensor at May Ranch (MAYR) failed and caused spikes in the soil moisture data. The device was replaced and the soil moisture data returned to normal. Data were affected from 19 to 23 March 2007.
- The multiplexer at Hobart (HOBA) caused random, erratic soil data. The device was replaced. Data were affected 28 February to 6 March 2007.
- A new site was added to the Oklahoma Mesonet - Oklahoma City North (OKCN). This site was commissioned on 3 March 2007 at 00:00 UTC, bringing the total number of Mesonet sites to 117.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	14774	MEDI	Fixed wiring problem
RELH	Current	14880	NEWP	Sensor reports erratic data
WSPD	Resolved	14793	BIXB	Replaced sensor that was damaged by ice
WDIR	Resolved	14659	INOL	Replaced sensor that had a directional bias
PRES	Current	14898	BURB	Sensor occasionally reports the same value
SRAD	N/A			
RAIN	Resolved	14795	GRA2	Repaired sensor
	Resolved	14845	BLAC	Fixed wiring problem

TA9M	N/A			
WS2M	N/A			
TS10	Resolved	14794	MADI	Replaced sensor that had developed a high bias
TB10	Current	14901	COPA	Sensor is cross-wired
	Resolved	14738	MEDI	Fixed wiring problem
	Resolved	14791	MAYR	Reinstalled heaved sensor
	Resolved	14849	INOL	Reinstalled heaved sensor
TS05	Resolved	14736	PAWN	Fixed wiring problem
TB05	Resolved	14695	WYNO	Reinstalled heaved sensor
	Resolved	14848	INOL	Reinstalled heaved sensor
TS30	Current	14842	BIXB	Sensor reporting out of range values
TR05	Current	14841	ANTL	Sensor does not moisten
	Current	14900	FREE	Sensor does not moisten
TR25	Resolved	14741	ALV2	Replaced sensor that stopped heating
TR60	Current	14790	WALT	Sensor does not heat
TR75	N/A			

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	N/A
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	Resolved	14739	F111	Repaired damaged sensor
RELH	N/A			
SRAD	N/A			
RAIN	Resolved	14796	F111	Cleaned gauge that was clogged
TS05	N/A			
TS10	N/A			
TS15	N/A			
TS30	N/A			
VW05	N/A			

VW25	Resolved	14591	F103	Rewired sensor
VW45	Resolved	14881	F115	Fixed sensor that reported erratic data
	Resolved	14833	F113	Replaced sensor that reported erratic data

“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