

OKLAHOMA MESONET QUALITY ASSURANCE REPORT

August 2008

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- Mesonet technicians performed scheduled rotations of 7 rain gauges, 11 temperature and relative humidity sensor, 8 wind vanes, 2 wind monitor nose cones, and 3 wind sentries.
- Multiplexer at SPEN affecting soil temperatures beginning 7/31/2008.
- Power Upgrades were completed at 15 sites.
- Continuity Site Upgrades were completed at BEAV, OILT and LAHO.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Current	17136	OKCW	Sensor susceptible to moisture
	Resolved	17035	CENT	Mud Dauber nest on sensor removed
RELH	Current	17094	WAUR	Sensor reporting errant data
	Current	17149	COOK	Sensor developed a low bias
WSPD	Current	17079	PAUL	Sensor has a starting threshold problem
	Current	17148	CLRM	Sensor has a starting threshold problem
	Resolved	16957	WYNO	WS2M greater than WSPD during light winds
	Resolved	16975	CALV	Bearings did not have proper clearance
WDIR	Current	17099	APAC	Sensor has a low bias
	Resolved	17010	APAC	Loose wire tightened
	Resolved	17062	TISH	Loose wire tightened
PRES	NA			
SRAD	Resolved	17092	LAHO	Sensor replaced for spikes in data
	Resolved	17142	NOWA	Bushes grew around sensor
RAIN	NA			

TA9M	Resolved	16930	PERK	Sensor replaced
WS2M	Resolved	17143	NOWA	Tall bushes grew around sensor
TS10	Resolved	16821	MINC	Sensor reporting errant data
	Resolved	17098	SHAW	Sensor developed a low bias
TB10	Current	17100	CAMA	Sensor has 20 deg C low bias
	Current	17101	TISH	Sensor has a low bias
	Current	17150	EUFA	TB10/TB05 have a low bias
	Resolved	16952	COOK	Sensor had low bias
TS05	Current	17145	ARNE	Sensor has a low bias
	Current	17147	FTCB	Sensor has a low bias
	Resolved	16955	ARD2	Ticket canceled, no vegetation on sod plot
	Resolved	17097	SHAW	Sensor had low bias
	Resolved	17131	BEAV	Sensor developed a low bias
TB05	Current	16954	WIST	Sensor has high bias
	Current	17026	RING	Bare plot less than sod plot
	Current	17093	CLOU	Sensor has low bias
	Current	17096	FTCB	Sensor has a low bias
	Current	17146	SHAW	Sensor has developed a low bias
	Resolved	17041	COOK	Sensor had low bias
TS30	Resolved	16917	ARD2	Sensor reporting errant data
	Resolved	16953	SHAW	Sensor developed a low bias
TR05	Resolved	16808	BIXB	Sensor stopped heating
TR25	Current	17025	FREE	Sensor stopped heating
	Resolved	16931	WEBR	Reporting errant data

TR60	Resolved	16935	WASH	Sensor Stopped heating
TR75	NA			

“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