

OKLAHOMA MESONET QUALITY ASSURANCE REPORT
July 2008

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- Mesonet technicians performed scheduled rotations of 1 fasttherm, 5 rain gauges, 12 temperature and relative humidity sensors, 6 wind vanes, 1 wind monitor nose cone, and 1 wind sentry.
- Loose wires to the Multiplexer at WALT affected soil moisture measurements from July 17-24, 2008.
- A multiplexer problem at SPEN is affecting soil temperatures beginning July 1, 2008.
- Power Upgrades were completed at 14 sites
- Continuity site upgrades were completed at TALI and HOBA
- Summer Pass 2008 began on July 1, 2008

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	16751	INOL	Sensor replaced due to a low bias
	Resolved	16810	KETC	Sensor replaced due to a high bias
	Resolved	16625	FAIR	Sensor replaced due to a high bias
RELH	Resolved	16749	WAUR	Horses caused sensor to become separated
WSPD	Current	16957	WYNO	WS2M larger than WSPD during light winds
WDIR	Resolved	16809	INOL	Sensor rewired to correct high bias
PRES	Resolved	16745	HASK	Failing sensor replaced
SRAD	Resolved	16680	MTHE	Sensor replaced for low bias
RAIN	Resolved	16679	BLAC	Wires connecting sensor were loose
	Resolved	16754	BURN	Post field testing found that sensor had low bias
	Resolved	16759	WOOD	Spider blocking rain gauge
	Resolved	16760	GUTH	Rain gauge missed rain event, sensor replaced
TA9M	Current	16930	PERK	Reporting spikes in data

WS2M	NA			
TS10	Resolved	16667	BURN	Sensor reporting errant data, sensor replaced
	Resolved	16656	MINC	Reported values greater than TB05
	Resolved	16887	ALV2	Sensor replaced due to a low bias
	Resolved	16804	MCAL	Sensor replaced due to a low bias
TB10	Current	16952	COOK	Sensor has developed a low bias
	Resolved	16805	ARNE	Sensor replaced due to a low bias
TS05	Current	16955	ARD2	Data greater than TB05
	Resolved	16886	ALV2	Sensor replaced due to a low bias
	Resolved	16859	MCAL	Sensor replaced due to a low bias
	Resolved	16904	TIPT	Sensor pointed to the surface
TB05	Current	16954	WIST	Sensor has developed a high bias
TS30	Current	16953	SHAW	Sensor has developed a low bias
	Resolved	16755	BURN	Damaged sensor replaced
	Resolved	16812	ALV2	Sensor replaced due to a low bias
	Resolved	16811	NINN	Sensor replaced due to damage and high bias
	Resolved	16860	MCAL	Replaced sensor for reliability
	Resolved	16750	ALTU	Loose wires tightened
TR05	Current	16808	BIXB	Sensor stopped heating
TR25	Current	16931	WEBR	Sensor is reporting errant data
TR60	Current	16935	WASH	Sensor stopped heating
	Resolved	16752	FREE	Replaced sensor due to rodent damage
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