

Oklahoma Mesonet / ARS Quality Assurance Report

August 2017

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- Mesonet technicians completed scheduled rotations of 34 batteries, 12 rain gauges, 19 dataloggers, 7 barometers, 21 relative humidity sensors, 6 pyranometers, 10 PRT thermometers (TAIR/TA9M), 1 thermistor (TAIR), 9 wind sentries, 6 wind monitor nose cones (WSPD), and 8 current excitations.

MESO QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH	Resolved	PUTN	32873	Relative humidity 0. Resolved by itself.
WSPD				
WDIR	Resolved	FITT	32881	Wind direction 0. Replaced cable.
PRES				
SRAD				
RAIN	Resolved	BYAR	33026	Gauges stops after rain starts. Replaced cable.
	Resolved	WEBR	32882	Missed events. Fixed cover.
	Resolved	HASK	32670	Low bias. Replaced.
	Resolved	TULN	32966	Alter shield on top of gauge. Fixed.
TA9M	Current	STUA	33107	Reports -7999.

WS2M

TB10 Current HINT 32854 Reports 300-400C.

**TS05 Resolved OKEM 32666 Reports -7999. Replaced.
Resolved PERK 32734 Reports -7999. Replaced.
Resolved TULN 31702 Too deep. Reburied at proper depth.**

TS10

TS25

TS60

**TR05 Resolved BURB 31888 Reports -7999. Replaced.
Resolved CARL 32019 Slow response. Replaced.
Current NINN 31138 Sensor overheats.
Current WYNO 33092 Stopped heating.**

**TRB10 Resolved BUFF 32003 Stopped heating. Replaced.
Resolved CAMA 32879 Reports -7999. Replaced.
Resolved NEWK 31997 Reports -7999. Replaced.
Current WEBR 33019 Outside allowed calibration error.**

**TRS10 Resolved ARD2 32980 Slow response. Replaced.
Resolved IDAB 32866 Reports -7999. Replaced.
Current WIST 32971 Small errant spikes.**

TR25

**TR60 Resolved STUA 32850 Stopped heating. Replaced.
Current ELRE 32835 Heats more than expected.**

ARS QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

FCARS QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	F110	31761	Low bias. Replaced.
VW05				
VW25				
VW45	Resolved	F114	32735	Voltages near 0. Replaced.
V05T				

V25T

V45T

'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 at 1.5 meters
RELH	Relative humidity at 1.5 meters
WDIR	Wind direction at 10 meters
WSPD	Wind speed at 10 meters
PRES	Air pressure
SRAD	Incident solar radiation
RAIN	Rainfall
TA9M	Air temperature at 9 meters
WS2M	Wind speed at 2 meters
TB10	Soil temperature at 10 cm under bare soil
TS05	Soil temperature at 5 cm under native sod
TS10	Soil temperature at 10 cm under native sod
TS25	Soil temperature at 25 cm under native sod
TS60	Soil temperature at 60 cm under native sod
TR05	Soil moisture: Calibrated DeltaT at 5 cm under native sod
TRB10	Soil moisture: Calibrated DeltaT at 10 cm under bare soil
TRS10	Soil moisture: Calibrated DeltaT at 10 cm under native sod
TR25	Soil moisture: Calibrated DeltaT at 25 cm under native sod
TR60	Soil moisture: Calibrated DeltaT at 60 cm under native sod
VW05	Soil moisture: Volumetric water content at 5 cm under native sod
VW25	Soil moisture: Volumetric water content at 25 cm under native sod
VW45	Soil moisture: Volumetric water content at 45 cm under native sod
V05T	Soil temperature at 5 cm under native sod
V25T	Soil temperature at 25 cm under native sod
V45T	Soil temperature at 45 cm under native sod