

OKLAHOMA MESONET / ARS QUALITY ASSURANCE REPORT

March 2017

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- Mesonet technicians completed scheduled rotations of 7 batteries (BATV), 14 dataloggers (LOGG), 1 barometer (PRES), 14 humidity sensors (RELH), 2 pyranometers (SRAD), 4 thermometers (TAIR), 3 rain gauges (RAIN), 3 wind sentries (WS2M), and 3 wind noses (WSPD).
- Battery problem at the Porter Mesonet Site (PORT) caused the logger to stop taking 5 and 30 minute observations. Battery was replaced.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH	Current	MIAM	31496	Sensor is reporting -49%.
WSPD				
WDIR				
PRES				
SRAD	Resolved	BROK	31456	Solar radiation reports around a 9% low bias. Replaced
	Resolved	IDAB	31457	Solar radiation reports around a 7% low bias. Replaced
RAIN	Resolved	IDAB	31428	Primary gauge reports less than secondary gauge.

	Resolved	MTHE	31477	Primary gauge reports more than secondary gauge during light rain events. Top replaced.
	Resolved	ADAX	31427	Secondary gauge stopped reporting. Replaced
	Resolved	BOWL	31480	Secondary gauge reports less than primary gauge.
	Resolved	BRIS	31395	Secondary gauge reports less than primary gauge.
	Current	LANE	31501	Primary gauge miss tips at beginning of light rain events.
	Current	MIAM	31502	Primary gauge stopped reporting.
TA9M				
WS2M	Resolved	BESS	31472	2m reports 0 when 10m reports 4 m/s. Replaced.
	Current	BEAV	31503	2m reports 0 when 10m reports 4 m/s.
TB10				
TS05				
TS10				
TS25				
TS60				
TR05	Current	NINN	31138	Final temperature increased from 15C to 28C.
TRB10	Resolved	ERIC	31421	Sensor reports -7999. Replaced.
TRS10	Resolved	CLAY	31417	10cm sod sensor wired into 25cm ports.

TR25	Current	STUA	31493	Sensor reports -7999.
TR60				

ARS Little Washita Watershed QA Report

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

ARS Fort Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05				

VW25				
VW45				
V05T				
V25T				
V45T				

“Current” tickets are unresolved tickets as of the last day of the month OR tickets added after Monthly QA analysis.
“Resolved” tickets are the sensor problems 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
TB10	Soil temperature measured at 10 cm under bare sod
TS05	Soil temperature measured at 5 cm under native soil
TS10	Soil temperature measured at 10 cm under native soil
TS25	Soil temperature measured at 25 cm under native soil
TS60	Soil temperature measured at 60 cm under native soil
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
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
V05T	Soil Temperature measured at 5cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod