

Oklahoma Mesonet / ARS Quality Assurance Report

January 2019

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- Mesonet technicians completed scheduled rotations of 4 batteries, 1 aspirator fan, 2 relative humidity sensors, 2 pyranometers, 3 PRT thermometers, 2 wind sentries, and 2 current excitations
- The Grandfield Mesonet site (GRA2) aspirator fan stopped spinning. Sensor was replaced. Affected air temperature were flagged.
- The Cloudy Mesonet site (CLOU) soil sensors stopped heating. Wiring problem was resolved and affected data flagged.
- OS upgrades performed on datalogger and CDM at BRIS, BROK, CLAY, CLOU, FTCB, HINT, IDAB, KETC, KIN2, MINC, MTHE, NRMN, OILT, SHAW, TALI, VALL, and WATO.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES				
SRAD				

RAIN	Resolved	OILT	38768	Missed rain events. Cleaned.
	Resolved	TALI	38832	Reported more than expected. Replaced gauge and cable.
	Resolved	TALI	38835	Missed start of events. Replaced cable and cleaned connectors.
	Resolved	KETC	38763	Missed events. Cleaned.
TA9M				
WS2M				
TB10				
TS05	Current	SALL	38908	More diurnal variation than expected.
TS10				
TS25				
TS60				
TR05	Current	BIXB	38792	Out-of-range values.
TRB10				
TRS10	Current	OKCE	38003	Sensor not heating.
TR25				
TR60				

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				
VW05				
VW25				
VW45				
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