

Oklahoma Mesonet / ARS Quality Assurance Report

December 2017

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- Aspirator fan problem at the Mangum Mesonet Site (MANG) is causing the aspirated air temperature to have a high bias. Data are flagged.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD	Resolved	BOWL	33909	Low bias in 10m wind. Sensor replaced.
WDIR				
PRES				
SRAD	Resolved	WATO	33986	Solar radiation has 9% high bias. Sensor and bubble level replaced.
RAIN	Resolved	BLAC	33955	Primary rain gauge did not report precipitation during thunderstorms. Sensor replaced.
	Resolved	TAHL	33956	Primary rain gauge reported significantly less than secondary gauge. Fixed.
	Current	WEBR	34011	Primary rain gauge reports significantly less than secondary gauge.
TA9M				

WS2M				
TB10				
TS05				
TS10				
TS25				
TS60				
TR05	Resolved	BLAC	33728	Outside allowed calibration error. Sensor replaced.
	Resolved	STUA	33727	Outside allowed calibration error. Sensor replaced.
TRB10				
TRS10				
TR25				
TR60				

ARS QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05	Resolved	A236	33969	Sensor frequently reported values near 0 for voltages 1-3. Sensor replaced.

VW25	Resolved	A154	33976	Sensor frequently reported values near 0 for voltages 1-3. Sensor replaced.
VW45	Resolved	A249	33973	Large errant spikes in soil moisture and temperature. Sensor replaced.
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