Oklahoma Mesonet / ARS

Quality Assurance Report

September 2017

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- Mesonet technicians completed scheduled rotations of 3 batteries, 2 dataloggers (LOGG), 4 barometers (PRES), 2 relative humidity sensors (RELH), 2 pyranometers (SRAD), 3 PRT thermometers (TAIR/TA9M), 1 rain gauge (RAIN), 11 wind directions (WDIR), 4 wind monitor nose cones (WSPD), 2 current excitations, and 2 RF modems.
- Power system failure at the Haskell Mesonet site (HASK) caused data loss from September 8-10.

MESO QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES				
SRAD				
RAIN	**Current**	**BRIS**	**33255**	**Gauge misses rain events.**
TA9M	**Resolved**	**STUA**	**33107**	**Reports -7999.**

WS2M	**Current**	**GRA2**	**33228**	**2m reports zero when 10m wind reports 5-7m s.**
TB10	**Resolved**	**HINT**	**32854**	**Reports 300-400C.**
TS05	**Current**	**MANG**	**33200**	**Sensor too deep.**
	Current	**TIPT**	**33260**	**Sensor too deep.**
TS10				
TS25				
TS60				
TR05	**Current**	**NINN**	**31138**	**Sensor heats much more than expected.**
	Current	**WYNO**	**33092**	**Stopped heating.**
TRB10	**Resolved**	**WEBR**	**33019**	**Outside allowed calibration error. Replaced.**
TRS10	**Resolved**	**WIST**	**32971**	**Small errant spikes. Replaced.**
TR25				
TR60	**Resolved**	**ELRE**	**32835**	**Heats more than expected. Replaced.**

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**