OKLAHOMA MESONET / ARS
QUALITY ASSURANCE REPORT

November 2012

Prepared by Alexandria McCombs
qamgr@mesonet.org

- Mesonet technicians performed scheduled rotations of 1 barometer (PRES), 1 batteries (BATV, BVAS), 3 fasttherms (TAIR), 3 pyranometers (SRAD), 1 raingauge (RAIN), 3 temperature and relative humidity sensors (RELH), 8 wind monitors (WDIR), 4 wind monitor nose cones (WSPD) and 5 windsentries (WS2M).
- Current excitation at Haskell (HASK) site malfunctioned causing 60cm soil moisture to report errant values from 13 November 2012 to 15 November 2012, appropriate data flagged as erroneous.
- The multiplexer at the Burneyville (BURN) site caused soil temperature data to report errant spikes in data from 13 September 2012 to 28 November 2012, appropriate data flagged as erroneous.
- The multiplexer at Altus (ALTU) site is causing spikes in all soil temperature data starting 11 November 2012, appropriate data flagged as erroneous.
- The Vanoss (VANO) site was decommissioned on 1 November 2012.

Mesonet QA Report for Standard Variables

Variable	Status	Site	Ticket	Remarks
TAIR				
RELH	**Resolved**	**SPEN**	**23513**	**Sensor had a low bias during high humidity**
WSPD				
WDIR				
PRES	**Resolved**	**NRMN**	**23945**	**Pressure deviates from neighbors**
	Resolved	**OKMU**	**24206**	**Pressure deviates from neighbors**
SRAD				
RAIN	**Resolved**	**TISH**	**24195**	**Spider web caused gauge to miss rain event**
TA9M	**Resolved**	**NEWK**	**23935**	**Reported large negative values for temperature**
WS2M				

TS10	**Resolved**	**WYNO**	**24193**	**Sensor had a low bias**
	Resolved	**MADI**	**24205**	**Sensor had a low bias**
	Resolved	**CLRM**	**24220**	**Sensor had a bias**
TB10	**Resolved**	**MAYR**	**23787**	**Sensor at incorrect depth**
	Current	**WIST**	**24263**	**Sensor has a low bias**
TS05	**Resolved**	**SALL**	**23933**	**Sensor had a low bias**
	Resolved	**MADI**	**24192**	**Sensor had a low bias**
	Resolved	**CLRM**	**24213**	**Sensor had a low bias**
	Current	**WYNO**	**24219**	**Sensor has a low bias**
	Current	**PORT**	**24264**	**Sensor has a low bias**
TB05	**Resolved**	**WOOD**	**23912**	**Sensor had a low bias, sensor removed**
	Resolved	**FOR A**	**23913**	**Sensor had a low bias, sensor removed**
	Resolved	**ALTU**	**24215**	**Erroneous increases and decreases in data**
	Resolved	**SLAP**	**24222**	**Sensor had a low bias**
	Resolved	**MAYR**	**24227**	**Sensor was at incorrect depth**
	Current	**TALI**	**24189**	**Sensor has a low bias**
	Current	**TAHL**	**24191**	**Sensor has a low bias**
	Current	**GUTH**	**24269**	**Sensor has a low bias**
TS30	**Resolved**	**OKMU**	**23914**	**Sensor had a low bias**
	Resolved	**SALL**	**24209**	**Sensor damaged by lightning**
TR05	**Resolved**	**BRIS**	**24120**	**Sensor reported errant values**
	Resolved	**CENT**	**23941**	**Sensor reported errant values**
TR25				
TR60				

ARS Little Washita Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN				
VW05	Resolved	A152	23902	Soil moisture decreased after rainfall
	Resolved	A253	23907	Spikes in soil temperature and moisture
VW25				
VW45	Resolved	A253	24194	Erroneous spikes in data
	Resolved	A256	24212	Erroneous spikes in data
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Site	Ticket	Remarks
RAIN	Resolved	F104	24196	Rain gauge missed rain event
VW05	Resolved	F111	24188	Erroneous spikes in soil moisture data
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 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
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 cm under native sod
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 5 cm under native sod
V25T	Soil Temperature measured at 25cm under native sod
V45T	Soil Temperature measured at 45cm under native sod