

**OKLAHOMA MESONET / ARS / OKCnet
QUALITY ASSURANCE REPORT**

February 2010

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- Heater temperature at OKCnet site KSW105 reported a constant value of 6.80C from 21 January 2010 - 4 March 2010, resulting in the loss of precipitation data and some wind data.
- Wiring problem caused maximum wind speed at Freedom (FREE) to constantly report 5.9 m/s on sunny days from 28 July 2009 - 3 March 2010; appropriate data have been flagged as erroneous.
- Aspirator Fan at Bixby (BIXB) reports 0 rpm during morning hours beginning 28 February 2010. Air Temperature at 1.5m (TAIR) not affected by problem.
- Datalogger at Bessie (BESS) had power problem resulting in loss of data from 0055-1510 UTC 11 March 2010.
- Battery at Hinton (HINT) reported low battery voltages from 12-16 February 2010; data were not affected by problem.
- Battery at Retrop (RETR) reported low battery voltages from 15-18 February 2010; data were not affected by problem
- Radiation shield at Hobart (HOBA) was broken after ice storm causing air temperature at 1.5m (TAIR) to have a high bias on sunny days from 4 -16 February 2010; appropriate data were flagged.
- ARS Watershed Site A153 remains down due to stolen solar panel.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
WSPD				
WDIR				
PRES				

SRAD				
RAIN	Resolved	19571	ACME	Site did not record snow melt
TA9M	Current	19586	WAUR	Reports large negative numbers
	Current	19608	WIST	Reports large negative numbers
WS2M	Current	19576	GRA2	Sensor has starting threshold problem
	Current	19585	CHIC	Sensor has starting threshold problem
	Current	19611	ADAX	Sensor has starting threshold problem
TS10	Resolved	19565	ELRE	Sensor damaged by gophers
TB10	Current	19560	WILB	Sensor has low bias compared to neighbors
	Current	19614	DURA	Sensor has low bias
	Resolved	19579	GUTH	Tech found no problem with sensor; unflagged
	Resolved	19590	OILT	Sensor had 2.5 C high bias
TS05	Current	19528	BEAV	Sensor has low bias
	Resolved	19593	ELRE	Sensor damaged by gophers
	Resolved	19566	WEBR	Damaged cable caused errant data
TB05	Current	19561	WILB	Sensor has low bias compared to neighbors
	Current	19578	ARNE	Sensor has a low bias
	Current	19597	JAYX	Suspect sensor is at incorrect depth
	Current	19598	TISH	Suspect sensor is at incorrect depth
	Current	19606	PAWN	Suspect sensor is at incorrect depth
	Current	19612	PAUL	Suspect sensor is at incorrect depth
	Current	19615	FREE	Sensor has low bias
	Resolved	19460	OILT	Tech found no problem with sensor; unflagged
	Resolved	19563	CLRM	Sensor found at incorrect depth
	Resolved	19530	CHER	Sensor had high bias

TS30	Current	19529	TAHL	Sensor has high bias
	Current	19581	KETC	Sensor reports small dips in data
	Resolved	19594	ELRE	Sensor damaged by gophers
	Resolved	19516	BREC	Sensor reported errant dips and spikes in data
TR05	Current	19584	VANO	Soil moisture dries out quickly after rain event
TR25				
TR60				
TR75	Resolved	19587	WAUR	Sensor cable badly damaged; sensor removed

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	19140	A162	Rain gauge under reports rainfall
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Resolved	19572	F114	Site under reported snow melt
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

Oklahoma City Micronet QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
PRES				
RAIN	Resolved	19574	KSW105	Impact plate did not record precipitation
WSPD				
WDIR				

“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
TR75	Soil moisture: Calibrated DeltaT measured at 75 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