

OKLAHOMA MESONET / ARS / OKCnet QUALITY ASSURANCE REPORT

February 2009

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- Mesonet technicians performed scheduled rotations of 10 rain gauges (RAIN), 1 wind monitor nose cone (WSPD), and 4 wind vanes (WDIR).
- Air temperature, relative humidity and solar radiation sensors were removed from 4 ARS Little Washita Watershed sites, soil temperature transitioned to 5, 25, and 45cm.
- Soil temperature sensors were removed from 2 ARS Ft Cobb Watershed sites.
- A power problem caused all 5 minute (air temperature, relative humidity, etc.) and soil moisture data for the Bessie Mesonet Site (BESS) to be lost from 0100 – 1820 UTC 17 February 2009.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Current	18379	HOLL	Sensor has low bias during high humidity.
	Resolved	18139	CAMA	Replaced sensor that had high bias.
WSPD	Resolved	18168	SPEN	Fixed wiring problem that caused high gusts.
WDIR	Resolved	18142	FITT	Aligned sensor that was 15 degrees off.
PRES	Resolved	18143	NRMN	Replaced malfunctioning sensor.
SRAD				
RAIN	Current	18066	SHAW	Field drip tests 2-4 tips low for past year
	Resolved	18181	PUTN	Removed spider web that clogged rain gauge.
TA9M	Current	18376	GRA2	Sensor reports large negative values.
	Resolved	18045	PRYO	Replaced sensor with moisture induced bias.

WS2M	Resolved	18036	TALI	Corrected electronic noise problem that caused high bias.
	Resolved	18373	MIAM	Replaced broken cups.
TS10				
TB10	Resolved	18180	SKIA	Replaced sensor that had high bias.
TS05				
TB05	Current	18380	NEWK	Sensor not at correct depth.
	Resolved	18137	COOK	Reburied sensor to correct depth.
	Resolved	18138	SKIA	Replaced sensor that had low bias.
TS30				
TR05				
TR25				
TR60				
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
SRAD				
RAIN				
TS05				
TS10				
TS15				

TS30	
VW05	
VW25	
VW45	
V05T	
V25T	
V45T	

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH	Resolved	18136	F101	Removed sensor that had low bias during high humidity.
SRAD				
RAIN				
TS05	Resolved	17325	F110	Removed sensor that had low bias.
TS10				
TS15	Resolved	18016	F105	Removed sensor that had high bias.
TS30				
VW05				
VW25				
VW45				

Oklahoma City Micronet QA Report

Variable	Status	Ticket	Site	Remarks
TAIR				
RELH				
PRES				
RAIN				
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