

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

April 2010

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- Mesonet technicians performed scheduled rotations of 5 Barometers (PRES), 2 pyranometers (SRAD), 3 temperature and relative humidity sensors (RELH), and 1 windsentry (WS2M).
- The datalogger at Webbers Falls (WEBR) Mesonet Site is causing a 0.5 deg Celsius high bias in Air temperature at 1.5m (TAIR), Air Temperature at 9m (TA9M), and all soil temperature sensors (TB05, TB10, TS05, TS10, TS30), appropriate data has been flagged as erroneous.
- ARS Watershed Site A153 remains down due to stolen solar panel.
- Spring Pass began on 1 April 2010

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	19689	REDR	Sensor reported small dips in data
RELH				
WSPD				
WDIR				
PRES				
SRAD	Resolved	19670	MEDF	Data appeared shifted compared to modeled data
	Resolved	19691	SLAP	Sensor developed a low bias
RAIN	Resolved	19690	OILT	Rain gauge missed rain event due to dirt in gauge
	Resolved	19726	MINC	Rain gauge missed rainfall due to spider web in gauge
TA9M	Resolved	19608	WIST	Sensor reported large negative values overnight

WS2M	Resolved	19664	BLAC	Sensor had a starting threshold problem
	Resolved	19696	MIAM	Sensor had a starting threshold problem
	Resolved	19665	LAHO	Sensor had a starting threshold problem
TS10	Current	19753	ERIC	Sensor reporting errant data spikes
	Current	19789	MEDI	Sensor has developed a low bias
	Resolved	19673	BURN	Sensor had a low bias
TB10	Current	19743	ANTL	Sensor reporting large negative numbers
	Current	19785	KIN2	Bare plot diurnal cycle is muted
	Current	19786	HOOK	Bare plot diurnal cycle is muted
	Resolved	19707	TALI	Bare plot 4cm too shallow during spring pass
	Resolved	19560	WILB	Sensor had a 1.97 deg C low bias
	Resolved	19725	SKIA	Bare plot 3cm too shallow during spring pass
	Resolved	19714	SHAW	Bare plot 5cm too shallow during spring pass
	Resolved	19717	OKEM	Bare plot 1cm too shallow during spring pass
	Resolved	19697	WASH	Bare plot 4cm too shallow, causing large diurnal cycle
	Resolved	19711	SALL	Bare plot 4cm too shallow, causing large diurnal cycle
TS05	Current	19736	PUTN	Sensor has developed a high bias
	Current	19788	HOLL	Sensor has developed a low bias
	Resolved	19762	FREE	Sensor had a bias
	Resolved	19735	BURN	Sod plot 1cm too shallow during spring pass
	Resolved	19745	HUGO	Sod plot too deep during pass visit
TB05	Current	19703	COOK	Sensor has large diurnal cycle, shallow sensor
	Current	19787	CHEY	Sensor has developed a low bias
	Current	19801	HECT	Sensor has large diurnal cycle, shallow sensor
	Resolved	19709	ELRE	Bare plot 2.5cm shallow
	Resolved	19706	TALI	Bare plot 4cm too shallow
	Resolved	19561	WILB	Sensor had a 1.89 deg C low bias

	Resolved	19760	MCAL	Bare plot 1cm too shallow
	Resolved	19708	OKCN	Bare plot 3cm too shallow
	Resolved	19699	SKIA	Bare plot had large diurnal cycle, shallow sensors
	Resolved	19715	SHAW	Bare plot 5cm too shallow
	Resolved	19698	OKEM	Bare plot 1cm too deep
	Resolved	19757	VINI	Bare plot 2cm too shallow
	Resolved	19671	MIAM	Sensor had large diurnal cycle, re-plotted sensor
	Resolved	19763	NRMN	Bare plot 2cm too shallow
	Resolved	19758	CHAN	Bare plot 1cm too shallow
	Resolved	19754	OKMU	Bare plot heaved during spring pass
TS30	Current	19700	HOLD	Reports errant increase and decreases in data
	Current	19799	MCAL	Sensor has a high bias
	Resolved	19727	BURN	Sensor had a low bias
	Resolved	19701	SALL	Cable damaged causing errant data
TR05	Resolved	19643	ELRE	Sensor stopped heating due to rodent damage
	Resolved	19672	IDAB	Difference between wet and dry ends very small
TR25				
TR60	Resolved	19712	BRIS	Sensor stopped heating
TR75				

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Current	19140	A162	Rain gauge under reports rainfall
VW05				
VW25				
VW45	Current	19737	A152	Errant variations in voltages
V05T				
V25T				
V45T				

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
RAIN	Resolved	19702	F106	Raingauge under-reported rainfall, drip test good
VW05				
VW25				
VW45				
V05T				
V25T				
V45T				

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