

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

September 2007

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- Mesonet Technicians rotated 22 pyranometers, 3 wind sentries, and 3 net radiometers.
- The sonic anemometers at OKCE, OKCN, and OKCW, were replaced with prop and vain wind sensors.
- The multiplexer at Porter (PORT) malfunctioned, which affected the soil moisture sensors. Data for the 5, 25, and 60 cm sensors were not available from 12 August through 13 September 2007.
- The datalogger at A162 was replaced because of recurrent multiplexer-logger problems. Due to this problem, soil moisture data were flagged from 19 August through 11 September 2007.
- Soil moisture sensors at a depth of 75 cm were decommissioned at Norman (NRMN), Tipton (TIPT), and Watonga (WATO).
- Summer Pass ended September 28th.
- Fall Pass began October 1st.
- Results from Summer Pass 2007 are now available online:
<http://www.mesonet.org/sitepass>

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Resolved	15420	KETC	Replaced sensor that had developed a bias
RELH	N/A			
WSPD	N/A			
WDIR	Current	15455	NEWP	Sensor occasionally report constant values
PRES	Current	15497	EUFA	Pressure deviates from neighbors sporadically
SRAD	Resolved	15396	VINI	Sensor reported negative values at night
	Resolved	15398	ALTU	Fixed wiring issue that caused a bias
	Resolved	15399	MIAM	Replaced sensor with suspected bias

	Resolved	15441	FAIR	Cleaned sensor that had a bias
RAIN	Current	15500	EUFA	Rain gauge failed
	Resolved	15364	HINT	Replaced gauge that failed
	Resolved	15432	ALTU	Fixed gauge that was clogged
TA9M	N/A			
WS2M	Current	15501	WASH	Sensor has developed a starting threshold problem
	Resolved	15474	ELRE	Replaced sensor that had developed a starting threshold problem
TS10	N/A			
TB10	Resolved	15421	COPA	Rewired sensor that was cross-wired with TB05
TS05				
TB05	Resolved	15456	COPA	Rewired sensor that was cross-wired with TB10
TS30	Resolved	15422	ERIC	Replaced sensor that had developed a bias
	Resolved	15424	HOLL	Replaced sensor that had developed a bias
TR05	Resolved	15395	TISH	Replaced sensor that no longer responded
TR25	Resolved	15430	TISH	Replaced sensor that had a damaged cable
TR60	N/A			
TR75	Resolved	15279	NRMN	Decommissioned failed sensor
	Resolved	15335	TIPT	Decommissioned failed sensor
	Resolved	15366	WATO	Decommissioned failed sensor

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	N/A			
RAIN	N/A			
TS05	N/A			
TS10	N/A			
TS15	N/A			
TS30	N/A			
VW05	N/A			
VW25	N/A			
VW45	N/A			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
SRAD	Current	15499	F106	Sensor reporting sporadic data
RAIN	Current	15372	F110	Rain gauge is over-reporting rain (note ticket delayed due to troubles reaching the site)

TS05	N/A			
TS10	Resolved	15367	F112	Replaced sensor that had developed a bias
TS15	N/A			
TS30	Resolved	15465	F111	Fixed wiring on erratic sensor
VW05	N/A			
VW25	N/A			
VW45	N/A			

“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