

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

July 2006

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- Even the summer months cannot slow down our Mesonet Technicians! Technicians conducted routine maintenance at sites, resolved over 160 trouble tickets, and completed other tasks, including:
 - Scheduled rotations of 12 pyranometers, 5 temperature and relative humidity sensors, 4 Fasttherms, 2 barometers, and 1 wind sentry
 - Logger upgrades at Antlers (ANTL), Inola (INOL), Perkins (PERK), Sallisaw (SALL), and Stillwater (STIL)
 - Enclosure upgrades at 7 Mesonet sites
 - SDM-SIO4s were installed at an additional 16 Mesonet sites
- Soil heat flux and platinum resistance thermometers (PRTs) were decommissioned at all but two Mesonet sites (Norman and Washington) on 1 July 2006. Mesonet Technicians have begun to remove these sensors from sites
- A lightning strike occurred at Stuart (STUA) on 5 July 2006 at 0:05 UTC. This lightning strike damaged communication equipment, the datalogger, and numerous sensors. The sensors that were affected are listed in the trouble tickets section below
- The 75 cm soil moisture sensor at STUA was decommissioned
- The Kenton (KENT) Mesonet site had problems with its voltage regulator and battery. This affected data observations from 3 to 5 July 2006.
- Results from Spring Pass 2006 are now available online at <http://www.mesonet.org/sitepass>

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	Current	13524	TAHL	Sensor has developed a low bias
RELH	Current	13622	ADAX	Sensor has developed a dry bias
WDIR	N/A			
WSPD	N/A			
PRES	Current	13623	HOBA	Sensor has developed a high bias
	Resolved	13441	CLOU	Replaced failed sensor
SRAD	Current	13532	TISH	Sensor has developed a low bias
	Current	13533	ACME	Sensor has developed a low bias

	Current	13534	WALT	Sensor has developed a problem
	Resolved	13466	STUA	Replaced sensor that was damaged by lightning
RAIN	Resolved	13474	APAC	Tightened loose screws
	Resolved	13442	TAHL	Cleaned sensor that was clogged by webbing
TA9M	N/A			
WS2M	N/A			
TS10	Current	13564	BESS	Sensor reporting erratic data
	Current	13614	WYNO	Sensor has developed a low bias
	Resolved	13538	STUA	Replaced sensor that was damaged by lightning
TB10	Current	13476	CHEY	Sensor has developed a low bias
	Resolved	13391	APAC	Replaced sensor that had failed
	Resolved	13424	STUA	Replaced sensor that was damaged by lightning
	Resolved	13461	CENT	Tightened wires on the sensor
TS05	Resolved	13456	BESS	Rewired sensor that was cross-wired with TS30
	Resolved	13537	STUA	Replaced sensor that was damaged by lightning
TB05	Current	13212	GRA2	Sensor has developed a high bias
	Current	13611	NEWK	Sensor has developed a low bias
	Current	13612	HINT	Sensor has developed a low bias
	Current	13613	LANE	Sensor has developed a low bias
	Resolved	13536	STUA	Replaced sensor that was damaged by lightning
TS30	Resolved	13425	STUA	Replaced sensor that was damaged by lightning
	Resolved	13455	BESS	Rewired sensor that was cross-wired with TS05
TR05	Current	13610	TIPT	Sensor has developed a noise problem
	Resolved	13426	STUA	Replaced sensor that was damaged by lightning

TR25	N/A			
TR60	Current	13563	PORT	Sensor has developed a noise problem
	Resolved	13427	STUA	Replaced sensor that was damaged by lightning
TR75	N/A			

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	Current	13458	A162	Sensor has failed
VW25	Current	13459	A132	Sensor has failed
VW45	Current	13460	A134	Sensor has failed

ARS Ft. Cobb 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	Current	13477	F112	Sensor has developed a low bias
VW05	N/A			
VW25	Current	13457	F102	Sensor is oscillating between completely dry and nearly saturated every day
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