OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
December 2005

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- Despite the holiday shortened month, Mesonet Technicians resolved 77 trouble tickets in December. Their tasks included:
  - Rotations of 17 fasttherms, 8 wind sentries, and 4 wind monitor nose cones
  - PROM upgrades at 3 repeaters and bases
  - Slave power upgrade at the Idabel (IDAB) supersite

- Soil moisture sensors were installed at A124 and A133 in the ARS Little Washita micronet.

- F102 in the Fort Cobb micronet experienced intermittent logger problems. Still waiting to assess the data - possible total loss.

Mesonet QA Report for Standard Variables

Variable	Status	Ticket	Site	Remarks
TAIR	N/A			
RELH	N/A			
WDIR	Current	12580	HOOK	Sensor has a directional bias
	Current	12583	CAMA	Sensor has a directional bias
WSPD	Resolved	12581	MARE	Cleaned grass from the propeller
PRES	Current	12674	NINN	Sensor is reporting the same pressure value (i.e. stuck)
	Current	12680	OKMU	Sensor is reporting the same pressure value (i.e. stuck)
SRAD	Current	12688	BIXB	Sensor has developed a low bias
RAIN	Resolved	12620	STUA	Cleaned gauge that had underestimated precip.
TA9M	N/A			

WS2M	**Resolved**	**12403**	**WOOD**	**Replaced sensor that had developed a starting threshold problem**
	Resolved	**12592**	**PRYO**	**Replaced sensor that had developed a starting threshold problem**
TS10	**N/A**			
TB10	**Resolved**	**12611**	**CLOU**	**Replaced sensor that had developed a low bias**
TS05	**Current**	**12672**	**MIAM**	**Sensor has developed a low bias**
	Current	**12638**	**PORT**	**Sensor is reporting out of range values**
	Resolved	**12618**	**CHER**	**Corrected wiring problem with sensor**
TB05	**Resolved**	**12327**	**MAYR**	**Reinstalled sensor to correct depth**
TS30	**Current**	**12686**	**PORT**	**Sensor is reporting erratic data**
TR05	**Current**	**12640**	**HECT**	**Sensor malfunctioning**
	Current	**12681**	**MIAM**	**Sensor reporting erratic data**
	Resolved	**12571**	**ERIC**	**Replaced damaged sensor**
TR25	**Current**	**12682**	**KING**	**Sensor has stopped heating**
	Resolved	**12516**	**VANO**	**Rewired site but problem persists**
TR60	**N/A**			
TR75	**Current**	**12673**	**HASK**	**Preferential flow, sensor will be decommissioned**

ARS Little Washita Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	**N/A**			
RELH	**N/A**			
SRAD	**N/A**			

RAIN	**Resolved**	**12639**	**A156**	**Cleaned clogged gauge**
TS10	**N/A**			
TB10	**N/A**			
TS05	**N/A**			
TB05	**N/A**			
TS30	**N/A**			

ARS Ft. Cobb Watershed QA Report

Variable	Status	Ticket	Site	Remarks
TAIR	**N/A**			
RELH	**N/A**			
SRAD	**Current**	**12679**	**F105**	**Sensor has developed a low bias**
RAIN	**N/A**			
TS05	**N/A**			
TS10	**N/A**			
TS15	**N/A**			
TS30	**N/A**			
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