OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
July 2002

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The new Claremore site (CLRM) was installed on July 10th and the old site (CLAR) was decommissioned on July 8. This move will improve the quality of the wind speed observations in Rogers county.

The ARS Micronet site A131 was dismantled on June 17 and then re-installed slightly to the east on July 19 to move it off of an oil pipeline easement.

The old Norman site (NORM) which had been running in tandem with the new Norman site (NRMN) was decommissioned on July 30th.

On top of the site installations, tear-downs and moves, the Technicians also began Summer Pass 2002 in July with approximately 55 sites visited during the month.

A lightning strike occurred at the Burneyville site on July 24. The datalogger and power regulator were replaced and the raingauge was repaired.

The CD containing the Spring Pass 2002 accomplishments, site photos, site forms, and other findings is ready for distribution. Please e-mail me if you would like us to send you a copy. The Spring Pass info is also temporarily available on the web: http://operations.ocs.ou.edu/pub/sitepass/SpringPass2002.html

Janet

	Mesonet QA Report for Standard Variables
TAIR	Current: Resolved:
RELH	**Current: #6851 MTHE Relative humidity values over 103% for extended periods** **Resolved: #6813 NRMN Replaced sensor reporting 20% low compared to nearby sites**
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	**Current: #6845 MTHE Pressure stuck at 980 mb** **Resolved: #6678 BBOW Reset barometer that was stuck at 999 mb** **Resolved: #6715 WIST Replaced barometer reporting out-of-range observations** **Resolved: #6716 NINN Reset barometer that was stuck at 1019 mb** **Resolved: #6718 BURB Reset barometer that was stuck at 1015 mb** **Resolved: #6720 PERK Replaced sensor that was stuck at 984 mb** **Resolved: #6735 MTHE Reset barometer that was stuck at 982 mb** **Resolved: #6736 HASK Reset barometer that was stuck at 996 mb** **Resolved: #6737 MADI Reset barometer that was stuck at 991 mb** **Resolved: #6811 ALTU Reset barometer that was stuck at 965 mb**

	Resolved: #6846 HASK Replaced barometer that was stuck at 965 mb
SRAD	Current: Resolved:
RAIN	**Current: #6850 SHAW No tips recorded during July 29 rain event** **Resolved: #6711 ARDM Replaced reed switch on gauge not reporting tips during widespread rain event** **Resolved: #6816 MEDI Replaced reed switch on gauge reporting phantom tips** **Resolved: #6847 BUTL Replaced switch on gauge that was not reporting tips during tech site visit** **Resolved: #6872 MAYR Replaced switch that was not reporting tips during tech site visit**
TA9M	Current: Resolved:
WS2M	Current: **Resolved: #6815 ALTU Replaced sensor to correct starting threshold problems**
TS10	Current: **Resolved: #6719 BEEX Replaced sensor to correct 20 deg low bias**
TB10	Current: **Resolved: #6819 CLAY Replaced sensor reporting afternoon temps hotter than TB05** **Resolved: #6820 PAUL Replaced sensor reporting afternoon temps hotter than TB05** **Resolved: #6873 WATO Replaced sensor damaged by gopher**
TS05	**Current: #6932 REDR Monthly QA indicates TS05 temperatures are 5 to 10 deg C cooler than TS10** Resolved:
TB05	**Current: #6812 LANE Temperature erratic with spikes to 130 deg C** **Current: #6814 ARDM Temperature dipping to -190 deg C** **Current: #6852 LAHO Sensor appears exposed to solar radn;temperatures above 55 deg C at solar noon** **Resolved: #6665 BESS Replaced sensor reporting temperatures of 130 deg C** **Resolved: #6710 WATO Replaced sensor damaged by gopher** **Resolved: #6713 DURA Tightened loose wire on sensor reporting erratic temperatures at night**
TS30	**Current: #6689 PERK Sensor has 12 deg C high bias** Resolved:

	ARS QA Report
TAIR	Current: **Resolved: #6827 A159 Replaced sensor that had 2 deg C low bias compared to**

	nearby sites
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: **Resolved: #6828 A147 Replaced sensor reporting 1700 W m-2**
RAIN	Current: **Resolved: #6849 A134 Removed spider web in gauge causing buckets to not tip**
TS05	Current: Resolved:
TS10	Current: Resolved:
TS15	Current: **Resolved: #6829 A138 Replaced sensor with 30 deg C high bias**
TS30	Current: Resolved:

"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