

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
November 2002

Prepared by Janet E. Martinez
gamgr@mesonet.org

The Mesonet station at Broken Bow (BBOW) in McCurtain County was decommissioned on November 20th due to repeated vandalism at the site.

Continued cloud cover during the first five days of November resulted in low battery voltages at seven repeater stations and Mesonet/ARS sites. These batteries have been replaced.

Scheduled rotations of barometers and temperature/relative humidity sensors were performed at several Mesonet sites.

This month's QA report again contains information about soil moisture data. The variables are TR05, TR25, TR60, and TR75 which represent the calibrated DeltaT from the 229-L soil moisture sensors at each of the 4 depths.

Happy Holidays!

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #7207 WOOD 5 to 6 degree C high bias compared to nearby sites
RELH	Current: Resolved: #7204 HOLL Replaced sensor reporting humidity values of 0%
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved: #7252 ALTU Rewired barometer that was stuck at 966 mb
SRAD	Current: Resolved:
RAIN	Current: Resolved: #7233 CLAY Removed debris in funnel that prevented water from reaching buckets Resolved: #7235 WEAT Replaced switch on gauge that had underreported rain Resolved: #7309 KENT Replaced bad switch
TA9M	Current: Resolved:

WS2M	Current: Resolved: #7202 CLOU Replaced wind sentry that had starting threshold problems Resolved: #7305 STIL Replaced wind sentry that had noisy bearings
TS10	Current: Resolved: #7205 MARS Replaced sensor damaged by rodents
TB10	Current: Resolved:
TS05	Current: Resolved: #7303 HINT Replaced sensor that had 5 degree C low bias
TB05	Current: #7400 EUFA Monthly QA indicates a 5 degree C high bias compared to nearby sites Resolved:
TS30	Current: Resolved: #7302 CLAY Replaced sensor that had 8 degree C high bias
TR05	Current: Resolved:
TR25	Current: Resolved: #7186 KETC Replaced bad sensor
TR60	Current: Resolved: #7167 STIG Replaced sensor that was not heating Resolved: #7190 EUFA Replaced bad sensor
TR75	Current: Resolved: #7191 EUFA Replaced bad sensor

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved: #7251 A122 Replaced sensor that had reported humidity values up to 200%
WDIR	Current: Resolved:
SRAD	Current: Resolved: Resolved:

RAIN	Current: Resolved: #7236 A166 Replaced corroded switch that had caused gauge to report phantom tips
TS05	Current: Resolved:
TS10	Current: Resolved:
TS15	Current: Resolved:
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
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