

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
February 2002

Prepared by Janet E. Martinez
gamgr@mesonet.org

Oklahoma experienced interesting weather during February. Just as the state was thawing out from the Jan 30-31 ice storm, snow began to fall on Feb 5 and continued throughout the next day. A quick-moving line of heavy rain came through on the 19th, and a strong front with gusty winds brought us very cold temperatures on the 25th and 26th.

In spite of the weather extremes, the Mesonet Technicians (Leslie, Kris, Ken and Bill) resolved 50 trouble tickets during the month. Their work included replacement of prop- and cup-type anemometers (damaged during the ice storm), scheduled rotations of wind direction sensors in the southwestern and southeastern parts of the state, replacement of net radiometers, and initial installations of telnet power switches at several base stations.

ARS site A130 was vandalized on February 26. The battery, power cable, and enclosure lock had to be replaced.

Thank you for taking a look at the web-based version of this month's QA report. Please send me your comments and suggestions!

Janet

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: Resolved: #6397 REDR Replaced sensor that reported 5% low compared to nearby sites
WDIR	Current: Resolved: #6372 GUTH Replaced sensor reporting northerly winds while nearby obs from south
WSPD	Current: Resolved: #6363 LAHO Replaced; wind speed shaft broken during ice storm Resolved: #6356 RETR Replaced; wind speed shaft broken during ice storm Resolved: #6360 APAC Fixed wiring on sensor stuck at zero Resolved: #6354 KING Replaced; propeller broken off during ice storm Resolved: #6359 FORA Replaced; propeller and wind speed shaft broken during ice storm
PRES	Current: Resolved:
SRAD	Current: Resolved:

RAIN	Current: Resolved: #6342 WYNO Replaced bad switch Resolved: #6343 BEEX Removed spider web that prevented bucket from tipping Resolved: #6358 WOOD Replaced corroded switch
TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: Resolved:
TB10	Current: Resolved:
TS05	Current: #6400 WATO Reporting data of -40 degrees C Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: #6335 A131 No tips reported during 3 February precip events Resolved:
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