

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
 March 2002

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On March 1 & 2, most of the state reported snow and a few hours of freezing rain. In spite of the fact that the effect of this snow/ice event was much less severe than the January 30-31 storm, the wind obs at 60 sites had to be manually flagged for time periods ranging from 3 to 26 hours due to freezing rain coating the anemometers. Temperatures in the state quickly recovered and on March 14, OKC set a record high temp for that date of 85 degrees. The southeast part of the state experienced heavy rains on two occasions, with Idabel leading the pack at nearly 10" of rain during March.

The Mesonet Technicians began Spring Pass 2002 in March. During the month, they also resolved 75 trouble tickets! In addition to the work detailed in this report, their work included scheduled replacements of 10m wind direction monitors (in the past four months, 100 have been changed out), and replacement of failed net radiometers, soil moisture sensors, ground heat flux plates and soil temp probes. They also replaced 7 cup-type anemometers with starting threshold problems (likely caused by our three winter ice storms). The initial installation of telnet power switches at base stations continued.

The data collection software and hardware for the ARS Micronet was upgraded to match that used by the Mesonet (upgraded in the spring of 2001). The new collection software is called LoggerNet. Thanks to all who were involved in the successful completion of this upgrade.

Thank you for viewing 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:
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved:
SRAD	Current: Resolved:

RAIN	Current: Resolved: #6403 HOBA Leveled & cleaned gauge (reported phantom tips) Resolved: #6417 CALV Checked and cleaned gauge (reported no melt during or after snow) Resolved: #6463 NORM Replaced switch (tips 30% low compared to nearby sites) Resolved: #6480 TISH Re-attached magnet & replaced switch
TA9M	Current: Resolved:
WS2M	Current: #6458 CHEY Starting threshold problems Current: #6459 ELRE Starting threshold problems Current: #6480 PUTN Starting threshold problems Resolved:
TS10	Current: Resolved:
TB10	Current: Resolved:
TS05	Current: Resolved:
TB05	Current: #6514 HUGO Monthly QA indicates 5 degree C low bias Resolved:
TS30	Current: Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: Resolved: #6435 A131 Adjusted magnet & switch (reported no tips during February)

TS05	Current: #6490 A161 Reporting temps of -12 degrees C Resolved:
TS10	Current: #6491 A161 Reporting temps of -15 degrees C 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