OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
January 2002

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On January 30 and 31, a devastating ice storm hit the northwestern half of Oklahoma. Among many other effects, the freezing rain coated both the cup-type and propvane anemometers. Erroneous wind observations (both from frozen sensors and from vibration-induced wind gusts) were wide-spread. At 3 sites, the propellers at 10 m actually broke off the vanes and fell to the ground. Starting on the first day of the storm and continuing for several days, approximately 60,000 wind observations were manually flagged at 52 Mesonet sites.

The Technicians' work in January included 21 scheduled rotations of wind monitors in the northeastern part of the state and replacement of soil moisture sensors, ground heat flux plates and site batteries.

The CD containing the Fall Pass 2001 information is ready for distribution. Please e-mail me if you would like us to send you a copy.

Next month's coming attraction: I will provide you with the URL for a new web-based version of the Monthly QA report and will ask at that time for your suggestions and comments about the page.

Janet

	Mesonet QA Report for Standard Variables
TAIR	Current: Resolved:
RELH	Current: **Resolved: #6259 RETR Replaced sensor with erratic data**
WDIR	Current: Resolved:
WSPD	**Current: #6360 APAC Stuck at zero for extended periods** Resolved:
PRES	Current: **Resolved: #6337 ALTU Replaced sensor stuck at 970 mb**
SRAD	Current: Resolved:
RAIN	**Current: # 6342 WYNO Gauge stuck at zero during last 2 rain events** **Current: # 6343 BEEX Gauge stuck at zero during last 2 rain events** Resolved:
TA9M	**Current: # 6344 OKEM Data are erratic and drop below -100 C** Resolved:
WS2M	Current: Resolved:

TS10	Current: **Resolved: #6304 WAUR Replaced sensor with cool bias**
TB10	Current: Resolved:
TS05	Current: Resolved:
TB05	Current: Resolved:
TS30	Current: **Resolved: #6305 MANG Replaced sensor with cool bias**

	ARS QA Report
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: 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