

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
December 1999

Prepared by Chris Fiebrich
gamgr@mesonet.org

Wintry weather caused the barometer tubes to freeze shut at MARS on 12/5 and at ALV2 and BUFF on 12/10. The problem resolved itself when temperatures warmed above freezing. The observation times affected were flagged in the Qualparm database.

A thin band of snowcover over the northwestern part of the state from 12/5-12/7 played havoc with the spatial automated QA. For instance, on the morning of 12/6, stations within the band of snowcover cooled to as low as 10 F, whereas adjacent sites outside of the band stayed in the upper 20s.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #4376 GOOD Replaced sensor damaged by bull
RELH	Current: Resolved: #4375 GOOD Replaced sensor damaged by bull
WDIR	Current: #4338 MARS Sensor reporting 180 degrees out of phase on numerous occasions Resolved: #4378 MTHE Replacing nose cone corrected WDIR
WSPD	Current: #4651 JAYX Sensor reporting 2 m/s lower than WSPD at 9 m Resolved: #4377 MTHE Replaced bad nose cone
PRES	Current: #4118 CHEY No barometer hole drilled, sensor is detecting pressure inside enclosure Resolved:
SRAD	Current: Resolved: #3361 ALTU Replaced pyranometer that was biased low
RAIN	Current: #4361 HOLL Gauge tipped 66 times instead of 50 times during drip test Resolved: #4339 TAHL Replaced bad switch Resolved: #4370 RING Removed 4 spider webs clogging gauge
TA9M	Current: Resolved:
WS2M	Current: #4342 PRES Sensor stuck at 0.0 m/s Resolved: #3670 MEDI Sensor moved to proper height Resolved: #4296 PORT Replaced sensor with electrical problem
TS10	Current: Resolved: #3003 HOBA Replaced bad sensor Resolved: #4486 WOOD Corrected wiring problem Resolved: #4490 SLAP Corrected wiring problem

TB10	Current: Resolved: #4487 WOOD Corrected wiring problem
TS05	Current: Resolved: #2604 HOBA Replaced sensor stuck at -273.1 C Resolved: #4488 WOOD Corrected wiring problem
TB05	Current: Resolved: #4489 WOOD Corrected wiring problem
TS30	Current: #3147 TIPT Sensor stuck at -273.1 C Resolved: #2391 HOLL Replaced bad sensor Resolved: #4491 SLAP Corrected wiring problem

ARS QA Report	
TAIR	Current: Resolved: #4647 A145 Replaced sensor failing mesocomp
RELH	Current: Resolved: #4648 A145 Replaced sensor failing mesocomp
WDIR	Current: Resolved:
SRAD	Current: #3836 A130 Mesocomp found sensor 7% low Current: #3837 A151 Mesocomp found sensor 7% low Resolved:
RAIN	Current: Resolved: #4504 A168 Replaced bad switch
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