

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
December 1998

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Icy conditions stopped 16 of the Mesonet's 2-m wind monitors dead in their tracks beginning on December 20. Every single station in the Panhandle and northwest section of the state observed 0 m/s winds at 2 m for anywhere from 3 to 5 days straight. 2-m wind observations were also affected in the northeast and southeast sections of the state where many wind sentries froze there, also.

And now, on to the report...

Mesonet QA Report for Standard Variables	
TAIR	Current: #2181 ALV2 Sensor reporting frequent -7999 obs Current: #2189 SLAP Monthly QA indicates 1.5 C warm bias Resolved:
RELH	Current: #2144 MANG Monthly QA indicates max observed RH too low Current: #2151 RING Sensor reporting ~30% too low Current: #2173 SEIL Sensor reporting values as low as 0% Current: #2190 PRYO Monthly QA indicates 1 C warm TDEW bias Resolved: #2168 HASK Failed mesocomp; sensor replaced
WDIR	Current: Resolved:
WSPD	Current: #2178 BREC Sensor stuck at 0.0 m/s for extended time periods Current: #2180 ALV2 Sensor stuck at 0.0 m/s continuously Resolved: #2158 STUA Replaced sensor with low bias Resolved: #2165 CLAY Prop remounted Resolved: #2175 PRYO Replaced nose assembly
PRES	Current: #2186 SLAP Monthly QA indicates 1.0 mb low bias Resolved:
SRAD	Current: Resolved:
RAIN	Current: Resolved: #2166 EUFA Replaced dead gauge switch Resolved: #2172 SKIA Replaced defective switch
TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: #2161 FAIR Sensor reporting constant -219.3 C Current: #2188 HINT Monthly QA indicates 2-3 C cool bias

	Resolved:
TB10	Current: #2183 WYNO Sensor reporting 15 C low bias Resolved:
TS05	Current: #2160 FAIR Sensor reporting constant -57.3 C Current: #2187 HINT Monthly QA indicates 2 C cool bias Resolved:
TB05	Current: #2015 ELRE Sensor reporting 2 C warmer than neighboring stations Current: #2185 BRIS Monthly QA indicates 3-4 C warm bias Resolved:
TS30	Current: #2157 TIPT Sensor reporting constant -56.0 C Current: #2184 FTCB Monthly QA indicates 1-2 C cool bias Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: #2179 A155 Sensor reports as high as 105% during conditions of height relative humidity Resolved:
SRAD	Current: Resolved:
RAIN	Current: Resolved:
TS05	Current: #2194 A164 Monthly QA indicates 2 C warm bias Resolved:
TS10	Current: #2193 A162 Monthly QA indicates 1-2 C cool bias Resolved:
TS15	Current: #2195 A158 Monthly QA indicates 2 C warm bias Current: #2192 A162 Monthly QA indicates 2 C cool bias Resolved:
TS30	Current: #2191 A162 Monthly QA indicates 2-3 C cool bias 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