

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
 May 1997

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It was generally a pleasant month for the Mesonet. The only major incidents which occurred in May was a lightning strike at BLAC, which damaged a few sensors, and the 10m wind monitor was stolen from WEBB. Yes, somebody actually climbed the tower in the dark just to steal the 10m wind monitor.

The ARS Micronet is running smoothly, and work has begun to switch out all of the weighing bucket rain gauges to tipping bucket rain gauges. One note in this report involves the "added" section for ARS t-tkts. As of yet, the monthly summaries have not been completed. Therefore, if the need arises, an addendum will follow later detailing any added t-tkts.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: #1292 HUGO Intercomparison revealed RH out of spec ~3% W.R.T. test probe Resolved: #1312 BLAC Replaced sensor damaged by lightning Resolved: #1342 BOIS Replaced due to field test Resolved: #1343 KENT Field test showed sensor was bad
WDIR	Current: Resolved:
WSPD	Current: Resolved: #1329 BURB Changed damaged nose cone
PRES	Current: Resolved:
SRAD	Current: #1314 BLAC Sensor damaged by lightning strike. Current: #1335 ERIC Sensor has been reporting a "7" night and day Resolved: #1298 CHIC Cleaned and checked for level
RAIN	Current: #1322 FTCB Rain is apparently under reporting Current: #1333 WALT 2 drip tests yielded 43 each - 50 typical Current: #1336 CLAY Could be a stuck gauge Resolved: #1224 SALL Vandalism Replacement Resolved: #1319 CALV Replaced bad gauge Resolved: #1290 RETR Bucket loose on bearings - missing tips Resolved: #1284 BOIS Replaced bad gauge Resolved: #1344 KENT Replaced due to earlier problems
TA9M	Current: Resolved:

WS2M	Current: Resolved:
TS10	Current: #1193 STUA QA suggests a ~3 degree warm bias Resolved: #1218 SALL Vandalism Replacement
TB10	Current: #1200 TALI Sensor is reading ~10 degrees warmer than neighboring sites Current: #1313 HOLL Sensor shows a ~6 degree warm bias Resolved: #1311 BLAC Replaced sensor damaged by lightning Resolved: #1260 SALL Unable to duplicate in field, tightened connections Resolved: #1076 WALT Gopher damage
TS05	Current: #1089 MADI QA suggests sensor reading ~5-6 degrees warm Current: #1190 MADI QA suggests sensor reading ~3 degrees warm Current: #1206 LANE Sensor reading ~10+ degrees warmer than neighboring sites Resolved: #1191 CALV Gopher damage Resolved: #1192 STUA Gopher damage Resolved: #1286 FORA Loose wire - tightened
TB05	Current: #1318 HOBA Sensor failing range test (> 50C @ times) Resolved: #1169 KING Replaced bad sensor Resolved: #1315 BLAC Intercomp showed 0.5C diff, did not replace Resolved: #1256 SALL Unable to duplicate in field, tightened connections Resolved: #1261 PAUL Unable to duplicate in field, tightened connections Resolved: #1340 HOBA Replaced bad sensor
TS30	Current: Resolved:

ARS QA Report	
TAIR	Current: #1305 A135 Sensor began reading values way below normal parameters Resolved:
RELH	Current: #1316 A153 RH values have shown an erratic nature Resolved:
SRAD	Current: #1132 A182 QA suggests sensor ~30% high Current: #1296 A125 QA suggests sensor is reading ~50 units too low Resolved:
RAIN	Current: Resolved:
TS05	Current: #1295 A160 QA suggests a ~6 degree warm bias Current: #1337 A147 Sensor failing at times 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