

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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The Oklahoma Mesonet experienced a quite month for the first time in a while, and there are no major incidents to report. On the other hand, summer arrived in all it's glory during the month and can easily be seen in the averaged summaries with warm temps, high dew points, and general southerly flow.

The rain guage switchout for the ARS Micronet was in full swing during June, and has continued on into early July. Otherwise, it was a relatively quite month there as well.

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 Current: #1375 NEWK After experiencing 60+kt winds, the sensor has been reporting unreal values Resolved: #1342 BOIS Replaced due to field test Resolved: #1343 KENT Field test showed sensor was bad
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: #1322 FTCB Rain is apparently under reporting Current: #1333 WALT 2 drip tests yielded 43 each - 50 typical Current: #1358 TALI Drip test yielded 57 tips, 50 expected Resolved: #1336 CLAY Funnel demucked (mostly dirt) Resolved: #1344 KENT Replaced due to earlier problems Resolved: #1372 APAC Replaced bad gauge
TA9M	Current: Resolved: #1359 BLAC Wire out of port - replaced
WS2M	Current: Resolved:
TS10	Current: #1364 NINN Sensor appears to have a ~5 degree warm bias

	Resolved: #1357 LANE Replaced with other probes
TB10	Current: #1313 HOLL Sensor shows a ~6 degree warm bias Resolved: #1355 WILB Reburied probe Resolved: #1200 TALI Reburied probe at proper depth Resolved: #1367 EUFA Reburied at proper depth
TS05	Current: #1089 MADI QA suggests sensor reading ~5-6 degrees warm Current: #1190 MADI QA suggests sensor reading ~3 degrees warm Resolved: #1206 LANE Gopher Damage
TB05	Current: #1373 GRAN The sensor began to report extreme values, then basically stopped reporting Resolved: #1340 HOBA Replaced bad sensor Resolved: #1318 HOBA T-tkt closed out due to actions of #1340 Resolved: #1366 EUFA Reburied at proper depth
TS30	Current: Resolved: #1354 Replaced bad probe

ARS QA Report	
TAIR	Current: Resolved: #1305 A135 Replaced bad sensor
RELH	Current: #1352 A148 Sensor has begun to read impossible values Resolved: #1316 A153 Replaced sensor - output looks good Resolved: #1361 A166 Replaced damaged sensor Resolved: #1349 A150 Wire out of port
SRAD	Current: Resolved: #1132 A136 Numbers look good. Resolved: #1296 A125 Did not find readings too low. Resolved: #1362 A166 Replaced damaged sensor
RAIN	Current: Resolved:
TS05	Current: #1350 A147 Sensor has been reading over 130F at times Resolved: #1295 A160 Soil 100% light sand - not enough discrepancy to change. Resolved: #1337 A147 No problem found
TS10	Current: #1351 A153 Sensor reading over 110F, even at night 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