

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
December 1997

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Greetings all...

December was seemingly an average month weather-wise, marked by spring-like temps and occasional arctic blasts. Temps averaged in the 40s. Last month's precip averaged about 100 mm (~4 inches) statewide, nearly double the normal precip. Norm recorded 99 mm, compared to only 2 mm the previous year. This gave our raingauges a workout, and a few problems were found.

A plague of spiders in the ARS also kept our techs busy. Six gauges were clogged from spider webs and cocoons.

Overall, though, a normal month for instrument repair. Rotations continue in preparation for OASIS.

As retiring QAMGR, kudos to all who've made my short stint an enjoyable one. Chris Fiebrich will gradually be taking things over...

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: #1618 TIPT Low dewpoint values, often out of range Resolved: #1568 ARNE Replaced probe; fixed SRAD problem Resolved: #1585 FTCB Field test off by 1C; replaced probe Resolved: #1607 EUFA Sensor replaced; output good
WDIR	Current: Resolved: #1560 FTCB No prob found, but reported incorrect in the past. Sensor replaced
WSPD	Current: Resolved: #1594 HECT Propeller missing from wind monitor
PRES	Current: Resolved:
SRAD	Current: Resolved: #1559 ARNE Fixed by replacing T/RH probed due to stuck RH switch Resolved: #1581 BESS Broken AG wire
RAIN	Current: Resolved: #1590 NINN Spider webs clogged gauge Resolved: #1589 ADAX Spider cocoons clogged funnel/tipping bucket
TA9M	Current: Resolved:

WS2M	Current: Resolved:
TS10	Current: #1579 TIPT Data reads -273.1; stopped reporting Current: #1603 MTHE Plots show about 3C too warm Current: #1604 BLAC Plots show about 3C too warm Resolved:
TB10	Current: #1580 TIPT Data reads -273.1; stopped reporting Resolved:
TS05	Current: Resolved:
TB05	Current: #1605 MEDI Plots show about 2-3C too warm Resolved: #1564 BUFF Old sensor read 4C too cool. Replaced
TS30	Current: Resolved:

	ARS QA Report
TAIR	Current: Resolved:
RELH	Current: #1617 A121 Found dewpoint error of 1.75% Current: #1623 A181 QA monthly plots showed a max RH of 134.5% Resolved: #1599 A132 No prob at site; suspect electronics/wiring
SRAD	Current: #1606 A123 Monthly plots show about 75 W/m2 too low Resolved:
RAIN	Current: Resolved: #1593 A162 Spider webs clogged gauge Resolved: #1592 A147 Spider webs clogged gauge Resolved: #1591 A132 Spider webs clogged gauge w/debris Resolved: #1611 A167 Spider in gauge and web in tube; cleaned
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