

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

August 1997

Prepared by Jeff Basara
ibasara@ou.edu

The Great Rain Give-away continued for much of Oklahoma through the month of August. This time CLAR took the honors of having the highest total with over 10 inches followed by WYNO which had over 9 inches. Conversely, 14 sites in southern Oklahoma had less than 2.5 inches of rainfall. To put this in perspective, all of the Panhandle sites had more rainfall than those 14 sites in southern Oklahoma.

Jerry Brotzge will soon be taking over the responsibilities of Quality Assurance Manager. So, don't be surprised to see his name on future QA reports.

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: #1443 CATO Sensor is reading well above allowable limits from time to time Resolved: #1431 BURN Mesocomp showed > 3% error on RH Resolved: #1448 HASK Replaced sensor Resolved: #1451 BIXB Sensor is within tolerance
WDIR	Current: Resolved:
WSPD	Current: Resolved: #1441 ELRE Monitor replaced Resolved: #1426 WILB Trouble Ticket unfounded
PRES	Current: #1456 HUGO Pressure values dropped from 1000mb to 930mb back to 1000mb in a day - impossible Resolved: #1403 COPA Stripped down insulation and soldered Resolved: #1398 BOIS An insect had built a home in the barometer tube Resolved: #1418 BURN Mesocomp showed a 58 mb difference Resolved: #1425 ELRE Tube semi-plugged
SRAD	Current: Resolved: #1444 HASK Problem related to a bad switch on T&RH sensor
RAIN	Current: Resolved: #1412 PRYO New rain gauge installed Resolved: #1419 CHEY Replaced questionable gauge Resolved: #1423 BRIS Removed plug and cleaned gauge Resolved: #1446 STUA Rg Mount had loosened and allowed gauge to tip to the east Resolved: #1116 BOWL Replaced gauge Resolved: #1358 TALI Old gauge: 57 tips - 50 expected Resolved: #1449 CHAN Adjusted bucket pin

TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: Resolved:
TB10	Current: Resolved: #1414 ADAX Gopher Damage
TS05	Current: Resolved:
TB05	Current: Resolved: #1373 GRAN Sensor stopped working
TS30	Current: #1468 HOBA Sensor is drifting in and out of reality Resolved:

	ARS QA Report
TAIR	Current: Resolved:
RELH	Current: Resolved:
SRAD	Current: #1457 A125 Insulation chewed on cable - needs rotation Resolved: #1447 A125 Taped chewed insulation
RAIN	Current: Resolved:
TS05	Current: Resolved:
TS10	Current: Resolved: #1393 A153 Problem may have been associated with rain gauge install Resolved: #1427 A153 Replaced sensor
TS15	Current: Resolved: #1395 A160 Sensor completely out during site visit Resolved: #1416 A144 Sensor functioning normally
TS30	Current: Resolved: #1420 A160 Replaced Sensor

	Resolved: #1392 A151 Gopher Damage Resolved: #1417 A125 Rodent Damage Resolved: #1434 A157 Gopher Damage

“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