

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
 March 2001

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69 trouble tickets were resolved by the techs during March. WOW! You won't notice all of that work here in this report, because some of the fixes were for scheduled rotations of sensors and work done on OASIS sensors (both of which we haven't made a part of the monthly QA report as of yet.)

Soil temperature probes under bare soil continue to be a major problem as over 20 stations have been found to have their probes literally heaved out of the ground. This is something we've never witnessed in the Mesonet EVER, and is likely due to all the wet, freezing weather we had this past winter. We'll hope it doesn't happen again for at least eight more years.

The Mesonet technicians are beginning their Spring Pass 2001 in which all sites will be visited over the next 3 months. During this pass, they will be taking site photos, maintaining the vegetation inside the site enclosure, cleaning sensors, and performing rain gauge tests.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: # 5442 GRA2 Replaced faulty sensor
RELH	Current: Resolved: # 5505 HUGO Replaced lightning-damaged sensor
WDIR	Current: Resolved:
WSPD	Current: Resolved: # 5490 RING Replaced damaged sensor
PRES	Current: Resolved:
SRAD	Current: # 5519 MEDF Monthly QA indicates 10% low bias Resolved: # 5072 KETC Replaced sensor with high bias Resolved: # 5159 FAIR Replaced lightning-damaged sensor Resolved: # 5394 SEIL Replaced sensor with low bias
RAIN	Current: # 5511 HUGO Gauge occasionally double-tips Resolved: # 5397 MEDF Replaced bad switch Resolved: # 5466 PUTN Replaced bad switch
TA9M	Current: Resolved: # 5492 JAYX Repaired lose wire
WS2M	Current: Resolved:

TS10	Current: Resolved: # 5507 HUGO Replaced lightning-damaged sensor
TB10	Current: # 5518 MEDF Monthly QA indicates 3 C warm bias Resolved: # 5402 MAYR Replaced bad sensor Resolved: # 5468 STUA Replaced gopher-damaged sensor Resolved: # 5440 WILB Corrected erosion problem
TS05	Current: # 5194 FAIR 5 C cool bias Resolved: # 5508 HUGO Replaced lightning-damaged sensor
TB05	Current: # 5515 STIG Sensor reporting erratic values Current: # 5569 CATO Check for erosion Current: #5570 BREC Check for erosion Resolved: # #5419 MARS Repaired erosion problem Resolved: # 5454 BLAC Repaired erosion problem Resolved: # 5455 KING Repaired erosion problem Resolved: # 5456 OKMU Repaired erosion problem Resolved: # 5457 PRYO Repaired erosion problem Resolved: # 5458 FORA Site checked for erosion Resolved: # 5459 TAHL Repaired erosion problem Resolved: # 5499 TISH Repaired erosion problem Resolved: # 5535 BIXB Repaired erosion problem Resolved: # 5536 WYNO Repaired erosion problem Resolved: # 5537 COPA Repaired erosion problem Resolved: # 5538 NOWA Repaired erosion problem Resolved: # 5539 MIAM Repaired erosion problem Resolved: # 5541 WILB Repaired erosion problem
TS30	Current: # 5517 EUFA Monthly QA indicates 3 C cool bias Resolved: # 5509 HUGO Replaced lightning-damaged sensor

	ARS QA Report
TAIR	Current: Resolved: # 5522 A152 Repaired vandalized sensor
RELH	Current: Resolved: # 5516 A149 Replaced sensor with high bias
WDIR	Current: Resolved:
SRAD	Current: Resolved:

RAIN	Current: Resolved: # 5467 A121 Replaced bad switch
TS05	Current: Resolved: # 5453 A165 Checked for erosion
TS10	Current: Resolved:
TS15	Current: Resolved: # 5523 A165 Corrected wiring problem
TS30	Current: Resolved: # 5524 A165 Corrected wiring problem

“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