

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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A major ice storm took place from January 28-30 across the northwest one-third of Oklahoma. The wind sensors became frozen at over 40 stations.

Several occurrences in which soil temperature sensors have "heaved" themselves out of the ground have been noted by techs recently. After analyzing the soil temperature data for January, it appears that 9 additional stations may be having the same problem. Trouble tickets have been issued so that the suspect sites can be visited during this coming month. The unusually wet and cold winter is likely to blame.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: # 5355 ERIC Sensor frequently drops to 0% Resolved: # 5332 MEDI Replaced sensor with suspected 5% high bias
WDIR	Current: Resolved: # 5344 SKIA Replaced sensor stuck at 360 degrees
WSPD	Current: Resolved: # 5405 PAUL Replaced suspect sensor
PRES	Current: Resolved: # 5403 VINI Replaced barometer reporting +300 mb high bias
SRAD	Current: # 5072 KETC Monthly QA indicates 5-10% high bias Current: # 5159 FAIR Sensor stuck at 0 Current: # 5394 SEIL Sensor reporting 80% low Resolved:
RAIN	Current: # 5397 MEDF Gauge stuck at 0 during precip event Resolved: # 5351 STIL Replaced gauge with bad switch Resolved: # 5396 NORM Replaced suspect gauge Resolved: # 5398 CLOU Replaced bad switch
TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: Resolved:

TB10	Current: # 5402 MAYR 3 C cool bias Resolved:
TS05	Current: # 5194 FAIR 5 C cool bias Resolved:
TB05	Current: # 5416 REDR Possible erosion causing TB05 to drop well below freezing Current: # 5419 MARS Possible erosion causing TB05 to drop well below freezing Current: # 5454 BLAC Possible erosion Current: # 5455 KING Possible erosion Current: # 5456 OKMU Possible erosion Current: # 5457 PRYO Possible erosion Current: # 5458 FORA Possible erosion Current: # 5459 TAHL Possible erosion Resolved: # 5215 PUTN Repaired lose wire on mux
TS30	Current: Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:
RAIN	Current: # 5395 A150 Repaired gauge by adjusting switch Resolved:
TS05	Current: # 5453 A165 Possible erosion 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