

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

February 2004

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Freezing rain and snow fell across the state twice during the first week of February. Wind observations were manually flagged at nearly two-thirds of our sites during one or both of the events.

Narrowband radio upgrades were completed at the following sites and bases in February: ARDMbase, ELRE, ELREbase, KING, and KINSbase.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #9065 BURB Replaced sensor and cable that had been chewed on by mouse
RELH	Current: #9074 SKIA Data spiking and dipping 30 to 40% Current: #9075 EUFA Data drops to below 5% each day Resolved: #9038 JAYX Replaced sensor that showed a 7% high bias on MesoComp Resolved: #9030 MEDF Replaced sensor that had reported 0.2% humidity values
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved: #9041 BREC Replaced sensor that had reported spiking data
SRAD	Current: Resolved:
RAIN	Current: Resolved:
TA9M	Current: Resolved:
WS2M	Current: Resolved: #8561 FORA Replaced sentry that had starting threshold problems Resolved: #9039 HINT Replaced sentry that had starting threshold problems Resolved: #8530 HOLL Replaced sentry that had starting threshold problems

TS10	Current: Resolved: #8564 WYNO Replaced multiplexer to correct problems with TS10 data
TB10	Current: #9105 SEIL Monthly QA shows that sensor has developed a 5 °C low bias Resolved: #8523 WOOD Replaced sensor that had developed a low bias Resolved: #8563 WYNO Replaced multiplexer to correct problems with TB10 data
TS05	Current: Resolved:
TB05	Current: Resolved: #9029 COPA Corrected depth of sensor that had heaved out of ground Resolved: #9043 PRYO Corrected depth of sensor that had heaved out of ground Resolved: #8559 VINI Corrected depth of sensor that had heaved out of ground
TS30	Current: #9016 SALL Monthly QA shows TS30 has developed a large low bias Resolved: #9045 MIAM Repaired wires on mux that had caused erratic data Resolved: #8525 VANO Replaced sensor that had developed a low bias
TR05	Current: #8553 OKEM Data from 5 and 25 cm sensors continues to spike and dip Current: #9040 ALV2 Heating is erratic at 5 cm Current: #9067 FORA Data has begun spiking and dipping at all four depths Resolved: #8424 SEIL Replaced sensor that had reported erratic data
TR25	Current: Resolved:
TR60	Current: Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
SRAD	Current: Resolved: Resolved:
RAIN	Current: Resolved:
TS05	Current: #9076 A125 Monthly QA shows a 5 deg C high bias Resolved: #9062 A133 Replaced sensor that had developed a low bias
TS10	Current:

	Resolved:
TS15	Current: #8518 A161 December Monthly QA indicates 2 C warm bias Resolved:
TS30	Current: Resolved: #9063 A164 Replaced sensor that had developed a high bias

“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
TR05	Soil moisture: Calibrated DeltaT measured at 5 cm under native sod
TR25	Soil moisture: Calibrated DeltaT measured at 25 cm under native sod
TR60	Soil moisture: Calibrated DeltaT measured at 60 cm under native sod