

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
 March 1999

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Vandalization: The A149 Micronet station suffered extensive damage shortly after midnight on March 17. All sensors were damaged except TS05, TS10, and TS30.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: #2151 RING Sensor sporadically reporting ~30% too low Resolved: #2228 STIG Replaced sensor reporting near 0% RH
WDIR	Current: Resolved:
WSPD	Current: Resolved: #2242 BESS Replaced sensor with broken shaft
PRES	Current: Resolved: #2240 STIG Lose wire found to be cause of stuck pressure readings
SRAD	Current: #2212 SPEN Sensor consistently reports lower than neighboring sites Resolved: #2239 MEDI Replaced sensor stuck at 0 W/m
RAIN	Current: Resolved: #2238 ALV2 Reed switch broken; causing momentary contacting of switch elements
TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: #2188 HINT Long-term QA indicates 1-2 C cool bias Current: #2234 MINC Monthly QA indicates 3 C warm bias Current: #2236 VINI Warm bias, data spikes, and multiple observations of -273.1 C noted Current: #2260 BOWL Sensor reporting data spikes and 10 C warm bias Resolved: #2161 FAIR Sensor cable cut by gopher
TB10	Current: #2213 GUTH Long-term QA indicates 2-3 C warm bias Resolved:
TS05	Current: #2187 HINT Long-term QA indicates 1-2 C cool bias Resolved:

TB05	Current: #2015 ELRE Sensor reporting 2 C warmer than neighboring sites Resolved:
TS30	Current: #2184 FTCB Long-term QA indicates 1-2 C cool bias Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved: #2179 A155 Replaced sensor which reported as high as 105% during high humidity Resolved: #2248 A149 Replaced sensor damaged by vandalism
SRAD	Current: Resolved: #2249 A149 Replaced sensor damaged by vandalism
RAIN	Current: Resolved: #2251 A149 Replaced funnel broken by vandalism
TS05	Current: Resolved:
TS10	Current: Resolved:
TS15	Current: Resolved: #2250 A149 Insulation cut when site vandalized
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