

OKLAHOMA MESONETWORK QUALITY ASSURANCE REPORT
for the month of November, 1996

Based upon observations taken at 1800 UTC each day

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Notes:

I am quite pleased to note that only two problems were noted (that is, two questionable artifacts in the data worthy of issuing trouble tickets for) in doing the manual QA for November. The data show that Kenton received zero rain for the month, and Boise City received a mere 1 mm. Those familiar with the climate of this area of the state will know that this is certainly not an impossibility. However, I personally drove through that part of the state towards the end of the month. A heavy snowfall blanketed that region over the Thanksgiving weekend, and the melt should have caused the buckets to tip at least a few times. Likely spiders have woven there evil webs, or dirt has clogged the funnels.

The same normal quirks were observed in this months data (especially with the wind field), but nothing new to write home about. And for that, I'm grateful.

To those of you who will not hear from me until early January via this report, I wish you a Merry Christmas!

P.S. Once again for the techs who are checking their records, any tickets dealing with standard rotations of instruments are not listed below.

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TAIR (Air Temperature at 1.5 meters):

Current t-tkts: None, except for those dealing with the
JBrotzge research project.
Added: None.
Resolved: None.

TDEW/RELH (RH is measured at 1.5 meters):

Current t-tkts: #1003 WOOD Beyond range at times. Previously as high
as 114%.
#1139 TIPT Was reporting up to 107.3%.
#1147 MIAM Failing to report since SM install.
Added: None.
Resolved: None.

WDIR (Wind Direction at 10 meters):

Current t-tkts: None.
Added: None.
Resolved: None.

WSPD (Wind Speed at 10 meters):

Current t-tkts: None.
Added: None.

Resolved: None.

PRES/PALT (Sea level Pressure):

Current t-tkts: None.
Added: None.
Resolved: None.

SRAD (Incident Solar Radiation):

Current t-tkts: None.
Added: None.
Resolved: None.

RAIN:

Lots to list here with all the spiders on the move!

Current t-tkts: #1092 SALL Previous temp fix, calibration questionable.
#1116 BOWL Bucket has internal H2O.
#1145 BUTL Temp fix. Please replace when gauge available.
#1146 COPA Temp fix with an audible bounce. Please replace when new gauge available.
Added: #1154 KENT Zero rain during November. Not likely with melt from heavy snowfall.
#1155 BOIS 1 mm rain during November. Not likely with melt from heavy snowfall.
Resolved: #1105 BLAC Bearings were locked up.
#1125 WCEL Black inner funnel plugged by spider web.
#1093 MCAL Tipping bucket had internal water.
#1128 ALTU Damaged by lightning.
#1114 COPA Unplugged. Extreme audible bounce (needs replacement, see #1146!).
#1124 WASH Spider interfering with bucket tips evicted.
#1138 HASK Diversion switch left on.
#1115 JAYX Funnel hole had layer of dead insects.
#1151 SEIL Gauge plugged with dirt and grass.
#1140 BESS Plugged, unplugged and let drain.
#1143 MARS Bucket stuck due to spider web.
#1142 BUTL Bucket off pivot pins.
#1148 TISH Evicted spider from bucket. 1 l = 54 tips.

TA9M (Air Temperature at 9 meters):

Current t-tkts: #1126 HUGO QA *repeatedly* indicates sensor may read ~2 deg cool.
Added: None.
Resolved: None.

WS2M (Wind Run at 2 meters):

Current t-tkts: #1129 PRES Temp fix after vandalized. Please replace when possible.
Added: None.
Resolved: #1044 PRES Ticket superseded by #1129.

TS10 (Soil temperature at 10 cm under native sod):

Current t-tkts: None.
Added: None.
Resolved: #963 NORM Ticket dismissed due to lack of continued evidence for bias.

#1082 MARS Slight gopher damage to cable.

TB10 (Soil temperature at 10 cm under bare soil):

Current t-tkts: #1076 WALT Previously failing spatial test with >20 deg warm bias.

Added: None.

Resolved: #1080 BIXB Gopher damage.
#1141 WASH Reinstalled at proper depth.

TS05 (Soil temperature at 5 cm under native sod):

Current t-tkts: #967 NORM QA was showing ~4 deg warm bias.

#1089 MADI QA shows 5-6 deg warm bias.

#1149 MARE Sensor stopped reporting.

Added: None.

Resolved: None.

TB05 (Soil temperature at 5 cm under bare soil):

Current t-tkts: #1127 OKEM QA repeatedly indicates sensor may read 2-3 deg cool.

Added: None.

Resolved: #1131 BIXB Slight gopher damage.
#1091 ARNE Gopher damage.

TS30 (Soil temperature at 30 cm under native sod):

Current t-tkts: None.

Added: None.

Resolved: #1130 ALTU Replaced after lightning damage.

Curtis H. Marshall, Jr.

7 December 1997