

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT
November 1997

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Greetings all...

And the cow jumped over the ... Mesonet fence? Not quite, but one did get into the EUFA site, disturbing most of our soil probes and breaking an RH probe (see Oct report). EUFA should now be back to normal.

Fortunately, most other sites remained relatively quiet.

November's weather marked a rather rude introduction to winter. Average temperatures dropped about 10C statewide, with the average wind dir shifting from SE during Oct to NW during Nov. Rainfall varied greatly across the state, too. MTHE received 157mm while KENT received only 4mm. And that 4mm was more than likely frozen. Most of the state got about 30-40mm.

So, overall an average month in the OK Mesonet network. Here are the specifics....

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved:
RELH	Current: Resolved: #1568 ARNE Replaced probe; fixed SRAD problem Resolved: #1585 FTCB Field test off by 1C; replaced probe
WDIR	Current: Resolved: #1560 FTCB No prob found, but have reported bad WDIR in the past
WSPD	Current: Resolved: #1563 CLAR No 2m winds
PRES	Current: Resolved:
SRAD	Current: #1581 BESS Reads -7999 continuously Resolved: #1559 ARNE Fixed by replacing T/RH probe due to stuck RH switch
RAIN	Current: Resolved: #1562 BURB Rain gauge replaced. Resolved: #1565 JAYX Recently replaced, so NAT; terrain feature?
TA9M	Current: Resolved:
WS2M	Current: Resolved:
TS10	Current: Resolved: #1574 EUFA Reinstalled probe at proper depth

TB10	Current: #1580 TIPT Data reads -273.1; stopped reporting Resolved: #1575 EUFA Reinstalled probe at proper depth
TS05	Current: Resolved: #1576 EUFA Reinstalled probe at proper depth
TB05	Current: #1605 MEDI Plots show about 2-3C too warm Resolved: #1558 SALL Old sensor dead; replaced Resolved: #1564 BUFF Old sensor read 4C too cool; replaced Resolved: #1577 EUFA Reinstalled probe at proper depth
TS30	Current: Resolved: #1578 EUFA Reinstalled probe at proper depth

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved: #1566 A134 New probe installed
SRAD	Current: #1606 A123 Monthly plots show about 75 W/m2 too low Resolved:
RAIN	Current: Resolved: #1567 A111 Removed/cleaned gauge bucket, funnel, tips
TS05	Current: 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