

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

April 2003

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The Mesonet technicians (Bill, Ken, Leslie, Kris and Thomas) resolved over 90 trouble tickets during April! This work included scheduled rotations of 27 wind sentries, 8 barometers and 8 T&RH sensors.

Spring Pass 2003 began in early April and by month's end, 70 sites had already been visited.

The new Broken Bow site (BROK) in McCurtain County was commissioned on April 4, 2003.

Janet

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #7624 NEWP Tightened loose sensor wire that had caused dips in data to -40° C
RELH	Current: Resolved: #7615 PUTN Replaced sensor that had reported 0% humidity intermittently since rain event Resolved: #7616 BEAV Replaced cracked sensor and shelter
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: Resolved: #7597 CHIC Replaced barometer and 12V power system to alleviate problems with barometer
SRAD	Current: #7751 SLAP Monthly QA indicates pyranometer has 50 to 100 W m-2 low bias in afternoons Resolved:
RAIN	Current: Resolved: #7623 SEIL Evicted spider webs that had prevented tips Resolved: #7630 TAHL Removed spider egg case found in funnel tube on gauge that had under-reported tips
TA9M	Current: Resolved:

WS2M	Current: #7752 ANTL Monthly QA indicates starting threshold problems Resolved: #7651 NEWK Sentry cups had melted due to fire at site Resolved: #7657 WYNO Sentry cups had melted due to fire at site
TS10	Current: Resolved: #7633 BLAC Replaced sensor that had a 4 to 8 degree C low bias Resolved: #7634 TIPT Replaced sensor that had a 5 to 7 degree C low bias
TB10	Current: Resolved:
TS05	Current: Resolved:
TB05	Current: Resolved:
TS30	Current: Resolved: #7620 VINI Tightened loose wires on sensor reporting erratic data Resolved: #7625 NEWP Tightened loose wires on sensor reporting erratic data
TR05	Current: Resolved:
TR25	Current: Resolved:
TR60	Current: Resolved: #7596 PUTN Replaced sensor that had been damaged by gopher
TR75	Current: Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
WDIR	Current: Resolved:
SRAD	Current: Resolved:

RAIN	Current: Resolved:
TS05	Current: Resolved:
TS10	Current: #7755 A148 TS10 temperature higher than TS05 during day and lower than TS05 Resolved: #7652 A165 Replaced sensor that had been damaged by gopher
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
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
TR75	Soil moisture: Calibrated DeltaT measured at 75 cm under native sod