**OKLAHOMA MESONET / ARS**
**QUALITY ASSURANCE REPORT**

January 2013

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- Mesonet technicians performed scheduled rotations of 1 barometer (PRES), 1 pyranometer (SRAD) and 3 temperature and relative humidity sensors (RELH).
- Multiplexer at Altus (ALTU) site caused errant spikes in soil temperature data from 11 November 2012 to 23 January 2013, appropriate data flagged as erroneous.

## Mesonet QA Report for Standard Variables

| Variable | Status | Site | Ticket | Remarks |
|---|---|---|---|---|
| | | | | |
| **TAIR** | | | | |
| | | | | |
| **RELH** | **Resolved** | **SHAW** | **24539** | **Sensor reported large negative values** |
| | **Resolved** | **BIXB** | **24561** | **Sensor had a low bias during high humidity** |
| | | | | |
| **WSPD** | | | | |
| | | | | |
| **WDIR** | | | | |
| | | | | |
| **PRES** | | | | |
| | | | | |
| **SRAD** | **Resolved** | **BURN** | **24530** | **Sensor had a low bias** |
| | **Resolved** | **GOOD** | **24533** | **Sensor had a low bias** |
| | **Resolved** | **ACME** | **24549** | **Sensor had a low bias** |
| | | | | |
| **RAIN** | | | | |
| | | | | |
| **TA9M** | | | | |
| | | | | |
| **WS2M** | | | | |
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|---|---|---|---|---|
| **TS10** | **Current** | **FTCB** | **24275** | **Reporting errant spikes in temperature** |
| | | | | |
| **TB10** | **Resolved** | **WIST** | **24263** | **Sensor had a low bias** |
| | **Current** | **STIG** | **24576** | **Bare plot has large diurnal cycle** |
| | **Current** | **INOL** | **24550** | **Reporting errant spikes in temperature** |
| | **Current** | **NOWA** | **24568** | **Sensor reporting errant spikes in temperature** |
| | **Current** | **ADAX** | **24568** | **Sensor reporting errant spikes in temperature** |
| | **Current** | **WEBR** | **24570** | **Bare plot has large diurnal cycle** |
| | | | | |
| **TS05** | **Resolved** | **WYNO** | **24219** | **Sensor had a low bias** |
| | **Resolved** | **CARL** | **24272** | **Sensor had a low bias** |
| | **Current** | **PORT** | **24264** | **Sensor has a low bias** |
| | **Current** | **GRA2** | **24579** | **Sensor has a low bias** |
| | | | | |
| **TB05** | **Resolved** | **GUTH** | **24269** | **Sensor had a low bias** |
| | **Current** | **TALI** | **24189** | **Sensor has a low bias** |
| | **Current** | **TAHL** | **24191** | **Sensor has a low bias** |
| | **Current** | **PAUL** | **24569** | **Sensor reporting errant spikes in temperature** |
| | | | | |
| **TS30** | **Current** | **MAYR** | **24577** | **Sensor has a low bias** |
| | **Current** | **PORT** | **24578** | **Sensor has a low bias** |
| | **Current** | **PERK** | **24567** | **Senor reporting errant spikes in data** |
| | | | | |
| **TR05** | | | | |
| | | | | |
| **TR25** | | | | |
| | | | | |
| **TR60** | | | | |
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## ARS Little Washita Watershed QA Report

| Variable | Status | Site | Ticket | Remarks |
|---|---|---|---|---|
| | | | | |
| RAIN | | | | |
| | | | | |
| VW05 | | | | |
| | | | | |
| VW25 | | | | |
| | | | | |
| VW45 | | | | |
| | | | | |
| V05T | Current | A136 | 24572 | Errant spikes in soil temperature |
| | | | | |
| V25T | | | | |
| | | | | |
| V45T | | | | |
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## ARS Ft. Cobb Watershed QA Report

| Variable | Status | Site | Ticket | Remarks |
|---|---|---|---|---|
| | | | | |
| RAIN | | | | |
| | | | | |
| VW05 | Resolved | F111 | 24528 | Soil moisture spiked down to 0 |
| | | | | |
| VW25 | | | | |
| | | | | |
| VW45 | | | | |
| | | | | |
| V05T | | | | |
| | | | | |
| V25T | | | | |
| | | | | |
| V45T | | | | |
| | | | | |

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 |
| VW05 | Soil moisture: Volumetric water content measured at 5 cm under native sod |
| VW25 | Soil moisture: Volumetric water content measured at 25 cm under native sod |
| VW45 | Soil moisture: Volumetric water content measured at 45 cm under native sod |
| V05T | Soil Temperature measured at 5 cm under native sod |
| V25T | Soil Temperature measured at 25cm under native sod |
| V45T | Soil Temperature measured at 45cm under native sod |