

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

August 1999

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The ARS site of A137 was vandalized on August 23. The solar panel and battery were damaged there.

VINI was struck by lightning on August 11. Fortunately, damage was contained to only the T/RH sensor. In addition to replacing the damaged sensor, some of the other hardware were replaced at VINI to be safe.

And finally, 12 Mesonet sites received OASIS upgrades during the month.

| Mesonet QA Report for Standard Variables | |
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| TAIR | Current: Resolved: #2808 HINT Replaced faulty sensor Resolved: #2920 VINI Replaced lightning-damaged sensor |
| RELH | Current: Resolved: #2394 BRIS Replaced sensor with erratic observations Resolved: #2669 WALT Replaced sensor with open RH switch Resolved: #2807 HINT Replaced faulty sensor Resolved: #2919 VINI Replaced lightning-damaged sensor |
| WDIR | Current: #2711 HOOK Sensor reporting E-NE'ly during southerly flow Resolved: #2718 DURA Replaced logger can |
| WSPD | Current: #2736 BBOV Sensor suspected of under-reporting during strong winds/severe weather Resolved: #2632 WEST Replaced sensor stuck at 0.0 m/s Resolved: #2670 DURA Replaced logger can to correct WSPD problem |
| PRES | Current: Resolved: |
| SRAD | Current: Resolved: |
| RAIN | Current: #2640 ANTL Gauge appears to be double-tipping Current: #2681 BURB Switch found to be sticking Current: #2797 CHER Gauge stuck at 0 mm during heavy rainfall Resolved: #2798 PAWN Repaired wiring problem causing under-reporting of rainfall Resolved: #2809 ADAX Removed spider web that was clogging tipping bucket |
| TA9M | Current: Resolved: #2792 MIAM Installed sensor when it became available |
| WS2M | Current: #2946 STIG Sensor again stuck at 0.0 mps Resolved: #2536 STIG Wired sensor during OASIS upgrade Resolved: #2671 DURA Replaced logger can corrected under-reporting of WS2M |

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| TS10 | <p>Current: #2260 BOWL Sensor reporting data spikes and 5 C warm bias</p> <p>Current: #2673 BURB Sensor appears to be biased 5 C warm since lightning strike</p> <p>Current: #2831 IDAB Wiring problem</p> <p>Current: #2839 PAWN Wiring problem</p> <p>Current: #2840 TIPT Wiring problem</p> <p>Resolved: #2656 WALT Replaced lightning-damaged sensor</p> |
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| TB10 | <p>Current: #2799 MIAM Sensor reporting continuous -7999.</p> <p>Current: #2833 IDAB Wiring problem</p> <p>Current: #2837 PAWN Wiring problem</p> <p>Current: #2864 FREE Sensor stuck at -73 C</p> <p>Resolved: #2735 STUA Found gopher damage and replaced sensor</p> <p>Resolved: #2794 BURN Fixed wiring problem</p> |
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| TS05 | <p>Current: #2604 HOBA Sensor stuck at -273.1 C</p> <p>Current: #2832 IDAB Wiring problem</p> <p>Current: #2838 PAWN Wiring problem</p> <p>Current: #2841 TIPT Wiring problem</p> <p>Current: #2993 PRYO Sensor reporting below -100.0 C frequently</p> <p>Resolved:</p> |
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| TB05 | <p>Current: #2538 CATO Sensor biased 5-10 C warm</p> <p>Current: #2719 LAHO Sensor reports erratically every afternoon</p> <p>Current: #2734 SKIA Reporting data spikes in the afternoon and as much as a 10 C warm bias</p> <p>Current: #2789 STIG Sensor reporting out of range (over 55 C)</p> <p>Current: #2834 IDAB Wiring problem</p> <p>Current: #2994 PRYO Sensor reporting below -100.0 C frequently</p> <p>Resolved: #2793 BURN Fixed wiring problem</p> |
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| TS30 | <p>Current: #2274 SALL Sensor damaged by lightning</p> <p>Current: #2391 HOLL Reporting 15 C warm bias</p> <p>Current: #2674 BURB Sensor biased 12 C cool since lightning strike</p> <p>Current: #2836 PAWN Wiring problem</p> <p>Resolved:</p> |
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| ARS QA Report | |
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| TAIR | <p>Current:</p> <p>Resolved:</p> |
| RELH | <p>Current: #2539 A149 Monthly QA indicates 1.0 C low TDEW Bias</p> <p>Resolved:</p> |
| SRAD | <p>Current:</p> <p>Resolved:</p> |
| RAIN | <p>Current:</p> <p>Resolved:</p> |

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| TS05 | Current: Resolved: |
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| TS10 | Current: Resolved: |
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| TS15 | Current: Resolved: #2790 A159 Corrected wiring problem |
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| TS30 | Current: Resolved: #2791 A159 Corrected wiring problem |
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“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 |