

# MAX Logbook

<b>IOP #</b>	1
<b>Crew Members</b>	Zeb Leffler, Melissa Gonzalez
<b>Arrival Time/Date (UTC)</b>	1340 UTC 2/16/2023
<b>Latitude</b>	32.89008°
<b>Longitude</b>	-88.34295°
<b>Heading</b>	312° *Road oriented at 297 deg; MAX parallel to the road* *Took heading from front of the cab*
<b>Cab Blanking</b>	N/A
<b>Elevation (m)</b>	68m
<b>Fully Operational Time/Date (UTC)</b> *List any non-operational equipment below*	1440 2/16/2023 *surface station may not have logged data (unsure)* SASSI
<b>Departure Time/Date (UTC)</b>	0145 UTC 2/17/2023

## Scan Strategies, Observations, Equipment Issues, Notes, etc.

<b>Time (UTC)</b>	<b>Observations/Notes</b>
1340	Arrived on site; parked in a gravel area. 2 wheels on road 2 wheels on soft gravel
1440	MAX Fully Operational, Started Shallow/Deep Scans sent from Karen Kosiba and Knupp  Scan speed set to 32 deg/sec; actual speed ~29 deg/sec (too fast for MAX) Shallow Scan (4A): 0.8, 1.5, 2.3, 3.3, 4.4, 6 (~1:30) Deep Scan (4A): 0.8, 1.5, 2.3, 3.3, 5, 10 (~1:30)

	<p>Shallow Scan (4B): Deep Scan (4B):</p>
1450	Testing full PERiLS scan strategy: Shallow, Deep, Shallow, Deep
1500	<p>10m-Surface Observations T: 20.7 C, Td: 17.8 C, RH: 83%, WSPD: 5.9 m/s, WDIR: 175 deg</p>
1537	<p>Changed scanning speed to 27 deg/sec, however max speed is 25 deg/sec Shallow scan took a total of 1:38 minutes</p>
1551	<p>Testing new scanning strategy Set scanning speed: 29 deg/sec Actual max scanning speed: 27 deg/sec Shallow: 0.8, 1.5, 2.3, 3.3, 4.4, 6.0 Deep: 0.8 1.5, 2.3, 3.3, 5, 10.0</p> <p>Shallow Time: 1:46 min (1st time around), 1:34 min (2nd time around), 1:33 min (3rd time around) Deep Time: 1:46 min (1st time around), 1:36 min (2nd time around), 1:37 min (3rd time around)</p>
1600	<p>10m-Surface Observations T: 21.6 C, Td: 18.5 C, RH: 83 %, WSPD: 6.3 m/s, WDIR: 192 deg</p> <p>Cloud cover: Partly cloudy, BKN</p>
1604	<p>Testing new scan rate speed Set scanning speed: 30 deg/sec Actual max scanning speed: ~28.63 deg/sec (gets close to 29 deg/sec, which is a fast scan rate for MAX) Shallow: 0.8, 1.5, 2.3, 3.3, 4.4, 6.0 Deep: 0.8 1.5, 2.3, 3.3, 5, 10.0</p> <p>Shallow Time: 1:41 min (1st time around), 1:32 min (2nd time around), 1:31 min (3rd time around) Deep Time: 1:31 min (1st time around), 1:34 min (2nd time around), 1:33 min (3rd time around)</p>
1704	<p>10m-Surface Observations T: 22.1 C, Td: 18.4 C, RH: 80 %, WSPD: 4.2 m/s, WDIR: 189 deg</p>

	Cloud cover: OVC, light rain
1729	<p>Modified scan strategy  Shallow: 1, 2, 3, 4.5, 6  Deep: 1, 2, 3, 6, 9</p> <p>Set scan speed: 26 deg/sec  Actual scan speed: upper limits of 24 deg/sec</p> <p>Shallow Time: 1:27 (1st time around)  Deep Time: 1:27 (1st time around)</p>
1739	<p>Modified scan strategy  Shallow: 1, 2, 3, 4.5, 6  Deep: 1, 2, 3, 6, 9</p> <p>Set scan speed: 25 deg/sec  Actual scan speed: upper limits of 23 deg/sec  Max scan speed: 24.11 deg/sec</p> <p>Shallow Time: 1:28 min/1:30 min  Deep Time: 1:29 min/1:30 min</p> <p>Stayed with this scanning strategy</p>
1800	<p>10m-Surface Observations  T: 22.8 C, Td: 18.5 C, RH: 77 %, WSPD: 8.8 m/s, WDIR: 160 deg</p> <p>Cloud cover: OVC</p>
1856	<p>Surface data was not logging; attempting to fix  Time in loggernet program is not in 24 hr format, rather in 12 hr time  format</p>
1900	<p>10m-Surface Observations  T: 22.5 C, Td: 18.6 C, RH: 79 %, WSPD: 6.6 m/s, WDIR: 170 deg</p> <p>Cloud cover: OVC</p>
1910	<p>Surface data may or may not be available. Unsure.  .dat file exists in the windows computer but unsure if it is logging data  properly as it cannot be viewed in the BRAHAM computer.</p>
1914	Light rain beginning

2000	<p>10m-Surface Observations  T: 20.5 C, Td: 19.2 C, RH: 93 %, WSPD: 5.0 m/s, WDIR: 165 deg</p> <p>Cloud cover: OVC, raining (stratiform precip)</p>
2100	<p>10m-Surface Observations  T: 20.4 C, Td: 19.4 C, RH: 94 %, WSPD: 6.0 m/s, WDIR: 160 deg</p> <p>Cloud cover: OVC, raining (stratiform precip)</p>
2224	<p>10m-Surface Observations  T: 20.7 C, Td: 19.6 C, RH: 93 %, WSPD: 7.0 m/s, WDIR: 192 deg</p> <p>Cloud cover: OVC, brief rain shower</p>
2234	<p>Quick wind shift 192 deg to 180</p>
2300	<p>10m-Surface Observations  T: 21 C, Td: 19.5 C, RH: 91 %, WSPD: 4.5 m/s, WDIR: 185 deg</p> <p>Cloud cover: OVC</p>
2340	<p>Began birdbath for Zdr calibration  *Zdr calibration has been lost; values are all negative*</p>
0000	<p>10m-Surface Observations  T: 20.7 C, Td: 19.6 C, RH: 94 %, WSPD: 5.0 m/s, WDIR: 185 deg</p> <p>Cloud cover: OVC, light rain</p>
0003	<p>Resumed deep/shallow scan strategy again</p>
0100	<p>10m-Surface Observations  T: 20.5 C, Td: 19.8C, RH: 95 %, WSPD: 2.8 m/s, WDIR: 245 deg</p> <p>Cloud cover: OVC, rain</p>
0121	<p>MAX Ended operations</p>
0145	<p>MAX Departed Site</p>


