

MAX Logbook

IOP #	3
Crew Members	Melissa Gonzalez-Fuentes & Zeb Leffler
Arrival Time/Date (UTC)	March 24, 2023 at 1640 UTC
Latitude	33.580853
Longitude	-91.061535°
Heading	180 deg
Cab Blanking	N/A
Elevation (m)	43
Fully Operational Time/Date (UTC) *List any non-operational equipment below*	March 24, 2023 at 1713 UTC
Departure Time/Date (UTC)	March 25, 2023 at 0236 UTC

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

Time (UTC)	Observations/Notes
1640	Arrived on site
1713	Fully operational
1730	<p>Began BL Clear Air Scans</p> <p><i>**Scanning Strategy Listed Below**</i> Scan Rate: 18/19 deg/sec (set to 20 deg/sec) Pulse Width: 0.8</p> <p>Elevation Scans: 0.7, 1.3, 2.0, 2.7, 3.7, 5.0, 7.0, 9.0 (total time = ~02:54 min)</p> <p><i>**RHI Scans Listed below**</i> MoDLS 96 deg (true north) RaDAPS 155 deg (true north) UIUC-915 296 deg (true north)</p>

	****CHANGED SCAN RATE LATER ON****
1756	Stopped BL Clear air scans with set 20 deg/sec (actual scan rate is 18/19 deg/sec) Testing scan speed set to 19 deg/sec (actual scan rate is 17/18 deg/sec)
1800	T: 25.3 C; Td: 16.6 C; WS: 11 m/s; Wdir: 200 deg Sky Conditions: Partly cloudy (cumulus clouds)
1809	Began BL Clear Air Scans *****UPDATED***** <i>**Scanning Strategy Listed Below**</i> Scan Rate: 17/18 deg/sec (set to 19 deg/sec) Pulse Width: 0.8 Elevation Scans: 0.7, 1.3, 2.0, 2.7, 3.7, 5.0, 7.0, 9.0 (total time = ~03:00 min) <i>**RHI Scans Listed below**</i> MoDLS 96 deg (true north) RaDAPS 155 deg (true north) UIUC-915 296 deg (true north)
1819	Water tower located to the NW (308 deg) in the town of Scott, MS, approximately 1.8 km
1900	T: 26.0 C; Td: 16.0 C; WS: 8.5 m/s; Wdir: 185 deg Sky Conditions: Partly cloudy (cumulus clouds)
2000	T: 26.0 C; Td: 16.4.0 C; WS: 10.0 m/s; Wdir: 185 deg Sky Conditions: Mostly cloudy
2058	Starting to clear out at MAX location; partly cloudy now
2100	T: 25.8 C; Td: 16.9 C; WS: 11.8 m/s; Wdir: 180 deg Sky Conditions: Partly cloudy (cumulus clouds)

2108	Gusted up to 15 m/s
2110	16 m/s wind gust
2146	Mostly cloudy skies
2200	T: 26.2; Td: 16.4 C; WS: 11.5 m/s; Wdir: 177 deg Sky Conditions: Overcast
2203	17 m/s wind gust
2241	<p align="center">Began Rapid Cycle Scans</p> <p align="center"><i>**Scanning Strategy Listed Below**</i></p> <p align="center">Scan Rate: 23/24 deg/sec (set to 25 deg/sec) Pulse Width: 0.4</p> <p align="center"><i>**Elevations Listed below**</i></p> <p align="center">Shallow: 0.7, 1.5, 2.6, 3.8, 5.0 Deep: 0.7, 1.5, 2.6, 6.0, 9.0 Shallow Deep</p> <p>Secondary line formed ahead of primary line of interest and is within 60 km of vicinity, hence the switch to rapid cycle scans.</p> <p>May need to lower the tower soon, as the line gets closer to MAX. May have to do it slightly early due to windy conditions. Had difficulty in a previous IOP where it was difficult to bring down the surface tower with strong winds.</p>
2300	***LOWERED SURFACE TOWER AHEAD OF CONVECTIVE LINE***
2303	***RESUMED RAPID CYCLE SCANS***
2304	<p align="center">***SURFACE TOWER LOWERED***</p> <p align="center">T: 26.0; Td: 17.0 C; WS: 11.0 m/s; Wdir: 180 deg</p> <p align="center">Sky Conditions: Overcast</p>

2313	Cloud to ground lightning observed to SW and NW
2338	Constant cloud to ground lightning to our west
2345	Got in Beast preparing to bail
0000	Tornado Warning Issued
0000	***SURFACE TOWER LOWERED*** Gust of 25 m/s
0025	Returned to MAX
0027	Surface station stopped recording except for wind data while convective line moved over MAX
0105	***SURFACE TOWER LOWERED*** T: 21.0 C; Td: 20.0 C; WS: 5.0 m/s; Wdir: 235 deg Sky Conditions: Overcast
0117	***SURFACE TOWER LOWERED*** Heavy rain begins Winds gusting up to 13 m/s CG
0122	***SURFACE TOWER LOWERED*** Winds gusting up to 17 m/s
0126	***SURFACE TOWER LOWERED*** Wind gust of 19.5 m/s
0131	***SURFACE TOWER LOWERED*** Wind gust of 21 m/s
0203	Ends of ops declared Will start tearing down once lightning and heavy precip moves out of vicinity
0220	MAX tearing down
0236	MAX Departing Site
0304	MAX crew back at Motel

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