

MAX Logbook

IOP #	4
Crew Members	Adam Weiner, Melissa Gonzalez
Arrival Time/Date (UTC)	1422 UTC 4/13/2022
Latitude	36.282502°
Longitude	-89.499301°
Heading	2°
Cab Blanking	N/A
Elevation (m)	85m
Fully Operational Time/Date (UTC) *List any non-operational equipment below*	1551 UTC 4/13/2022
Departure Time/Date (UTC)	2208 UTC 4/13/2022

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

Time (UTC)	Observations/Notes
1422	Arrive on site; inspecting gravel pad; decided to orient parallel to road due to apparent erosion of gravel over culvert; there are a few potential towers to use for azimuth correction located to the east and southeast of the site
1503	Begin 10m data collection
1530	Adjusted shallow scan sequence to 0.5°, 1.2°, 1.9°, 2.6°, 3.5°, 4.5°, 5.5°, 7° Adjusted deep scan sequence to 0.5°, 1.2°, 1.9°, 2.6°, 3.5°, 8°, 11°, 14°
1551	Begin shallow scanning
1600	10m observations: partly sunny; T: 72.6F, Td: 60.3F, p: 995.7 hPa, wind speed: ~8m/s, wind gust: 12.7 m/s around 1520 UTC
1655	10m observations: partly sunny; T: 75.3F, Td: 60.1F, p: 995.8 hPa, wind

	speed: 6.7 m/s, wind direction: ~194°, max wind gust: 13.2 m/s around 1600 UTC
1800	10m observations: mostly cloudy with filtered sunshine; T: 76.5F, Td: 60.2F, p: 995hPa, wind speed: ~10m/s, wind direction: ~212°, max wind gust to ~17.7 m/s around 1718 UTC
1816	18.2 m/s wind gust
1828	Light rain; overcast
1835	Tornado Watch #122 issued
1844	Light rain
1900	10m observations: cloudy; T: 76F, Td: 61F, p: 994.4 hPa, wind speed: 7-8 m/s, wind direction: ~181°, max wind gust: ~16 m/s around 1821 UTC
1903	Stopped shallow scanning with the 0.8 microsec pulse width
1904	Started shallow scanning with 0.4 microsec pulse width to test timing; 1 min 55 sec duration
1906	Started deep scanning to test timing; 1 min 55 sec duration
1912	Begin 10 min sync scan sequence: shallow, deep, shallow, shallow, deep
1949	Big drops falling at MAX; thunderstorm with hail and CG lightning passing NW of MAX at around 10 km range
2000	T: 74F, Td: 62F, p: 993.0 hPa wind speed: ~5 m/s, wind direction: ~165°, max wind gust in last hour: 14.4 m/s around 1950 UTC
2010	Stopped scanning; conducting two sets of RHIs at 270° and 255°
2012	Resumed 10 min sync scanning
2014	MAX 10m tower lowered ahead of storms; scanning stopped
2018	10 min sync scanning resumed
2025	Moving into Beast - preparing to bail
2035	22.2 m/s wind gust measured with fully lowered 10m tower
2054	Returned to MAX

