

MAX Logbook

IOP #	1
Crew Members	Adam Weiner, Melissa Gonzalez, Josh Huggins
Arrival Time/Date (UTC)	1251 UTC 3/22/2022
Latitude	33.132502°
Longitude	-88.495401°
Heading	89°
Cab Blanking	N/A
Elevation (m)	67m
Fully Operational Time/Date (UTC) *List any non-operational equipment below*	1636 3/22/2022
Departure Time/Date (UTC)	2313 3/22/2022

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

Time (UTC)	Observations/Notes
1251	Arrive on site; during setup, the wxt510 compass was rotated to face north, not south; to fix: rotate all wind direction data by 180 deg
1400	Scan strategies updated; discovered azimuth motor does not work while elevation motor works; SASSI software is not recognizing the GPS; restarting all computers and UPS
1405	WXT510 stopped to restart; data collected from 1319-1404
1416	WXT510 restarted
1435	Azimuth motor issued NOT resolved; Dustin Phillips en route to troubleshoot; SASSI GPS issue NOT resolved
1442	SASSI GPS issue NOT resolved; attempting to install SASSI on Adam's personal laptop

1535	Motor issued still NOT resolved; SASSI issue still NOT resolved
1636	Started scanning shallow scans
1700	Hourly synced shallow and deep scans started; deep scan did not run
1710	Shallow scans started; deep scan ran starting at 1720 up to 2.4 deg, then stopped after adjusting repeat timing to every 7.5 mins
1722	Shallow scans resumed; ended at 1726 UTC to trial deep scan run time
1726	Deep scan attempt started; run time: 3:01
1730	Shallow scans resumed
1732	Shallow scan stopped after updating schedule; restarted shallow scan within 20 seconds
1736:30	Shallow scan stopped at 6.0 deg; deep scan started
1740	Shallow scans started with deep scan scheduled
1747	Deep scan ran prematurely during middle of 10 min window; manually ran deep scan starting at 1747
1750	Shallow scan manually started; deep scan scheduled
1752	Deep scan started; ended early to adjust repeat time
1753	Shallow scans started
1756:30	Shallow scans stopped; deep scan started
1800	Shallow scans started with deep scan scheduled
1807	Deep scan started
1822	Deep scan started; ended early
1823	Shallow scan manually started
1827	Deep scan manually started
1830	Shallow scans started manually; deep scan scheduled to repeat every 7:15
1834	Deep scan started prematurely; ended manually then started shallow scan at 1835

1837	Deep scan started manually
1840	Scans stopped to troubleshoot scheduling issue
1844	Shallow scan started
1846:45	Deep scan manually started
1850	Shallow scans manually started
1857	Deep scan manually run
1900	Shallow scan manually run with deep scan scheduled to repeat every 7:30
1902	Deep scan cut off at 14 deg; shallow scans resumed
1910	Shallow scans manually started
1916	Shallow scans stopped
1916:46	Deep scan manually started
1920	Shallow scans manually resumed
1927	Deep scan started manually
1934	Shallow scans stopped
1936	Dual-PRF mode activated; 5:4 ratio; 39 m/s Nyquist velocity; data looks very messy with numerous unfolded pixels throughout the data
1938	10m tower lowered to half mast; deep scan not conducted
1940	Shallow scans resumed with single PRF
1946:45	Shallow scans stopped; deep scan manually started
1950	Shallow scans resumed
1951	Scanning stopped; 10m tower lowered fully and locked into place
1954	Shallow scans resumed
1956	Deep scan started
2000	Shallow scans resumed; deep scan scheduled
2009	MAX crew bailing

2027	Last volume scan started before azimuth velocity exceeded error
2134	Shallow volume scans resumed
2232	Shallow volume scans stopped; bird bath scans started
2235	Discovered ZDR is very negative when doing bird bath scans
2240	MAX stopped scanning; beginning teardown
2313	MAX departing