

# MoDLS Logbook

<b>IOP #</b>	4
<b>Crew Members</b>	Matthew Starke, Liz Seiler, Autumn Bolhuis
<b>Arrival Time/Date (UTC)</b>	2023 Mar 31 1812Z
<b>Latitude (deg)</b>	34.7969441 N
<b>Longitude (deg)</b>	87.1527087 W
<b>Heading</b>	10 deg
<b>Elevation (m)</b>	239
<b>Fully Operational Time/Date (UTC)</b> *List any non-operational equipment below*	2023 Mar 31 1917Z
<b>Departure Time/Date (UTC)</b>	2023 Apr 01 ?????Z

**Lidar Scan Strategies, Sounding Types & Balloon Launch Times, Observations, Equipment Issues, Notes, etc.**

Time (UTC)	Observations/Notes
1812	onsite
~18256	surface finally behaving ^MS
~1835	shutdown lidar ^MS
~1845	O/P Active disconnected and reconnected a few minutes later ^MS
1854	24DC disconnected and reconnected 2 minutes later ^MS

1856	Lidar display booting up ^MS
1900	lidar seems to be functioning again ^MS
1903	very brief light rain ^MS
1909	MPR not being pushed to site ^MS
1917	ACTUALLY fully operational. forgot to start the sonic ^MS
1952	connector for sounding antenna box is extremely finicky ^MS
2000	launched sounding 1 ^MS
2056	light rain ^MS
2130	launched sounding 2 ^MS
2139	Autumn and Liz leave for bio break ^MS
~2200	Rylie arrived at MoDLS ^MS
2214	Autumn and Liz return ^MS
~2230	Rylie departs ^MS
2300	sounding 3 launched ^MS
0000	sounding 4 launched ^MS
0102	sounding 5 launched; one balloon popped ^MS
0121	sounding 5 may have not had a GPS fix until 4km AGL. not sure - we did not double check (PS the ground altitude was not set until 4km - I had it set to 239m [from the first sonde] and then it regained a GPS fix) ^MS
0128	sfc_avg.py has been returning bunk T estimates lately - will have to check later ^MS
0155	0102Z sounding was not uploaded to EOL catalog ^MS
0200	sounding 6 launched ^MS
0202	sounding 6 almost immediately lost GPS and radio fix after launch - both were good before launch ^MS
0303	sound 7 launched. had issues with keeping a radio fix for a while, and one balloon popped mostly unprovoked ^MS

0400	sounding 8 launched ^MS
0440	still having issues with receiver disconnecting^MS
0502	sounding 9 launches; everything was ready to go but upon launch windsond claimed it wasn't ready AGAIN and then the receiver connection was flaky and also there was no site altitude again ^MS
0510	Switched to the connection that doesn't use the box. Doesn't seem like it will recontact the sonde, but it is at least connected to the antenna ^MS
0515	Tried the bluetooth option, doesn't do anything ^MS
0515	switching back to just using the short cable, but this sonde is lost ^MS
0559	sounding 10 launched; using the little cable instead of the box ^MS
0628	lightning visual? ^MS
0633	no contact with sonde for 10 minutes, but at least the receiver was connected the whole time ^MS
0644	thunder audible ^MS
0650	sounding 11 launched, to avoid lightning ^MS
0653	tower down ^MS
0702	light rain has begun ^MS
0718	moved to transit van
0726	moderate rain
0729	heavy rain, bit of wind
0740	Almost no rain
0747	Light rain
0753	thunder
0803	begin teardown ^MS