

MoDLS Logbook

| | |
|--|---|
| IOP # | 5 |
| Crew Members | Matthew Starke, Brendan Lee, Liz Seiler |
| Arrival Time/Date (UTC) | 2023 Apr 05 1055Z |
| Latitude (deg) | 35.3876997 N |
| Longitude (deg) | 90.2712585 W |
| Heading | 70 |
| Elevation (m) | 66 |
| Fully Operational Time/Date (UTC) *List any non-operational equipment below* | 2023 Apr 05 1119Z |
| Departure Time/Date (UTC) | |

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

| Time (UTC) | Observations/Notes |
|------------|--|
| 1105Z | SFC slow to start up - about 5 minutes before LoggerNet saw it ^MS |
| 1115Z | Sounding 1 launched ^MS T=22.9C RH=82.0% p=1000.1mb SC=SCT WD=172deg WS=5.4m/s |
| 1119Z | tower raised, everything operational ^MS |
| 1205 | Sounding 1 terminated ^BL |
| 1222 | Preparing sounding 2 ^MS |
| 1230 | Sounding 2 launched ^MS T=23.2 C |

| | |
|------|---|
| | <p>RH=81.2% p=1000.0 mb SC=BKN high, FEW low WD*=181.3 deg WS=7.0 m/s</p> |
| 1301 | gust to 15 m/s ^MS |
| 1315 | Sounding 2 terminated ^BL |
| 1400 | <p>Sounding 3 launched ^MS T=24.5 C RH=74.7% p=1000.5 mb SC=OVC high, BKN low WD*=186.2 deg WS=7.1 m/s</p> |
| 1455 | Sound 3 terminated ^BL |
| 1500 | <p>Sounding 4 launched ^MS T=24.9 C RH=73.0% p=1002.2 mb SC=BKN mid, BKN low WD*=201.9 deg WS=6.3 m/s</p> |
| 1506 | Liz and Brendan depart for bio break ^MS |
| 1529 | Liz and Brendan return ^MS |
| 1530 | Sounding 4 terminated ^BL |
| 1600 | <p>Sounding 5 launched ^MS T=25.1 C RH=71.6% p=1003.3 mb SC=SCT low, OVC mid WD*=197.5 deg WS=5.1 m/s</p> |
| 1643 | Sounding 5 terminated ^BL |
| 1700 | Sounding 6 launched ^MS |

| | |
|------|---|
| | <p>T=25.5 C RH=68.0% p=1004.1 mb SC=BKN low, OVC mid WD*=208.6 deg WS=7.2 m/s</p> |
| 1721 | brief drizzle ^MS |
| 1730 | light rain ^MS |
| 1738 | Sounding 6 terminated ^BL |
| 1747 | Tower down ^MS |
| 1752 | <p>Sounding 7 launched ^MS T=25.0 C RH=70.7% p=1004.6 mb SC=OVC mid, BKN low, oncoming shelf cloud WD*=231.9 deg WS=2.5 m/s</p> |
| 1755 | significantly cooler ^MS |
| 1756 | heavy rain and wind, rotation of meso clearly visible ^MS |
| 1800 | 1 minute of pea-sized hail ^MS |
| 1803 | light rain ^MS |
| 1807 | Sounding 7 terminated ^BL |
| 1830 | Tear-down begins ^MS |