



Payload 2 Daily Flight Report



Date: 2026-07-31

Flight Campaign ID: P2C1

Airport, FBO ID, City: Winchester Regional Airport (KOKV) - Winchester, VA

Aircraft: N821AR

Domain: 02 (Mid-Atlantic), 07 (Appalachians & Cumberland Plateau)

Sites Flown: MLBS (Mountain Lake Biological Station)

Days left in Domain: 09

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 02:23

Spectrometer Operators: Mitch

Hours until maintenance: 97.13

Pilots: Justin, Landon

GPS Instruments: AOP_BLAN, AOP_MLBS

Summary

The forecast called for early morning clear skies over Mountain Lake Biological Station, and the tower cameras confirmed that prior to takeoff. Unfortunately, low cumulus clouds at flight altitude hampered data collection upon arrival. Despite this, the crew managed to collect a semi ad-hoc cross-strip before returning to base.

Concerns

- The Ri-Acquire external screen displayed a "Power Surge on the USB port" error. The crew switched to power from the Sherpa brick as a workaround, which resolved the issue. No other anomalies occurred during the flight.

Comments

- None

Daily Coverage

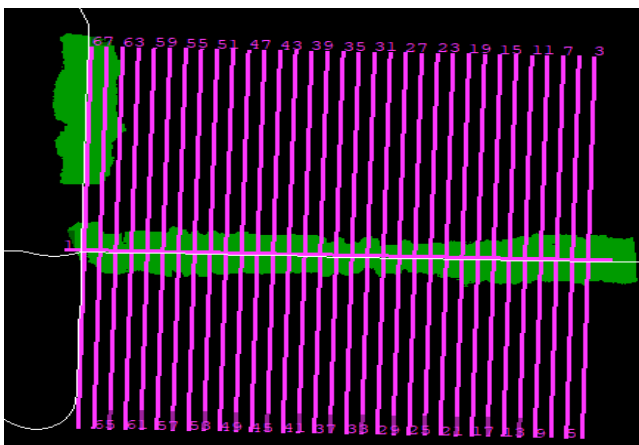
Estimated Cloud Cover Key

Green:	Yellow:	Red:
0-10%	11-50%	>50%

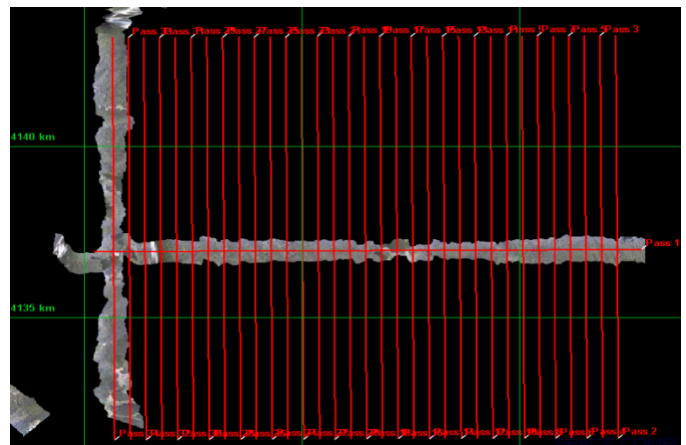
Solar Angle Less Than 40 degrees: (*)

Flight Screenshots

Lidar



NIS



Pictures: Prior to takeoff this morning in Winchester VA.



Cumulative Domain Coverage

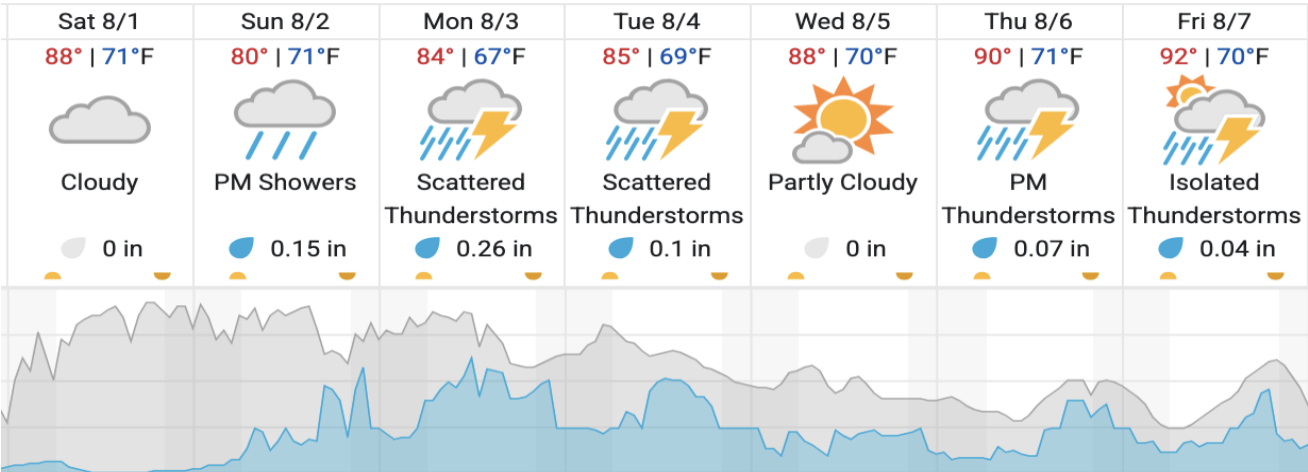
D07 | MLBS (Mountain Lake Biological Station)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34						

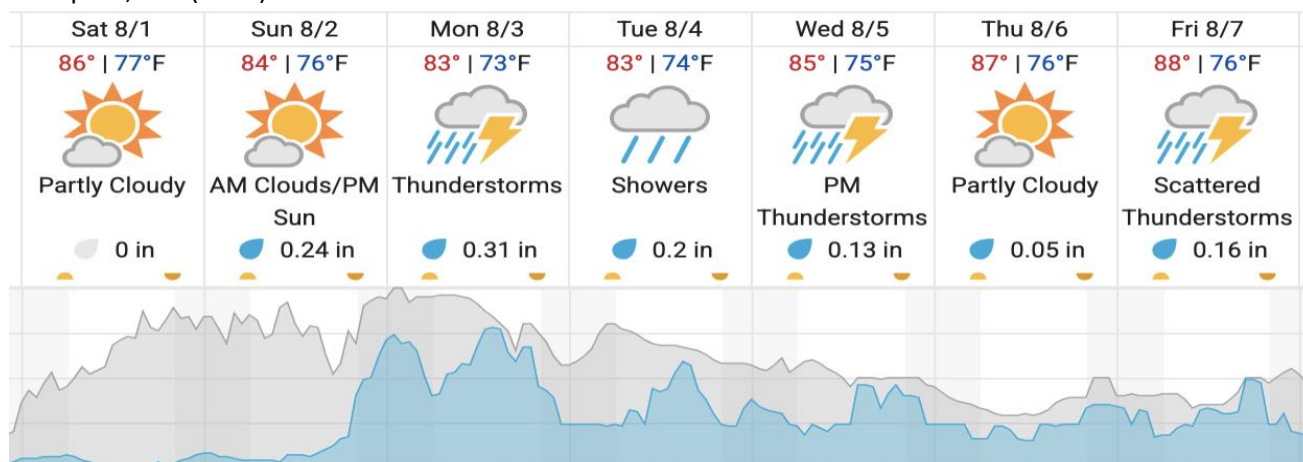
Flown: 50% (17/34)
Green: 0% (0/34)
Yellow: 0% (0/34)
Red: 50% (17/34)
* Flown within 35deg solar angle

Weather Forecast

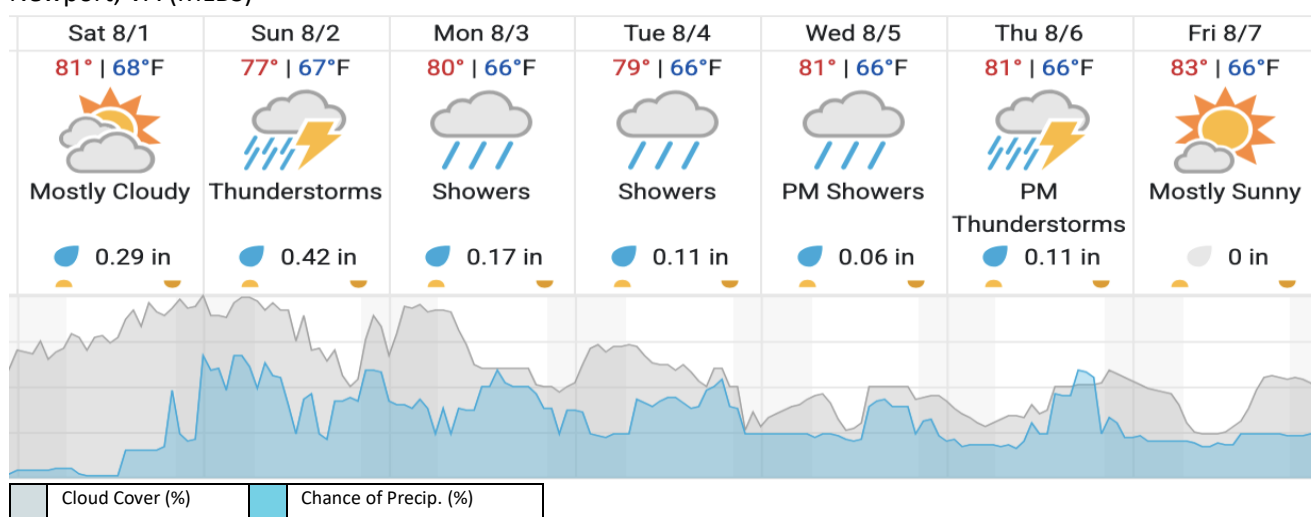
Front Royal, VA (BLAN, SCBI)



Annapolis, MD (SERC)



Newport, VA (MLBS)



source: wunderground.com

Flight Collection Plan for 01 August 2026

Flyority 1

Collection Area: Smithsonian Ecological Research Center (SERC) – *Only if green*

Flight Plan Name: D07_SERC_R1_P1_v3_VQ780

40° On-station Time: 13:50 UTC / 09:50 L

Flyority 2

Collection Area: Smithsonian Conservation Biology Institute (SCBI) – *Only if green*

Flight Plan Name: D02_SCBI_C1_P1_v3_VQ780

40° On-station Time: 13:50 UTC / 09:50 L

Flyority 3

Collection Area: Mountain Lake Biological Station (MLBS)

Flight Plan Name: D07_MLBS_R1_P1_v8_VQ780

40° On-station Time: 13:50 UTC / 09:50 L

Flyority 4

Collection Area: Blandy Experimental Farm (BLAN)

Flight Plan Name: D02_BLAN_R2_P1_v4_VQ780

40° On-station Time: 14:00 UTC / 10:00 L

Crew: Mitch (Lidar), Cameron (NIS)