



Payload 2 Daily Flight Report



Date: 2026-07-15

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: 24

Report Author: Alyssa

Lidar Operators: Alyssa

Flight Hours: 03:46

Spectrometer Operators: John

Hours until maintenance: 107.48

Pilots: Justin, Skylar

GPS Instruments: 0101 - MLBS, AOP_BLAN

Summary

Crew attempted to capture clear data at MLBS but intense haze and cirrus had moved in when they got there. Half the box collected.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

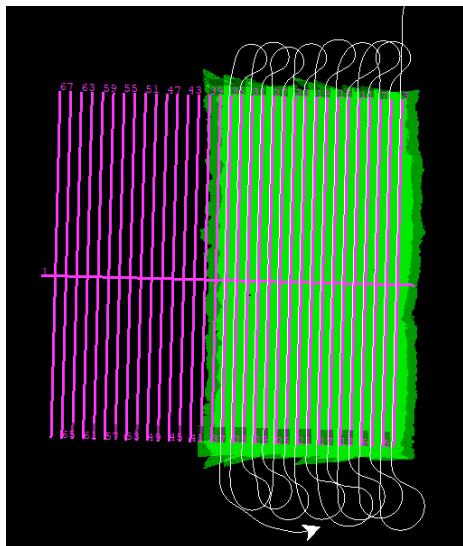
D07|MLBS

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																	

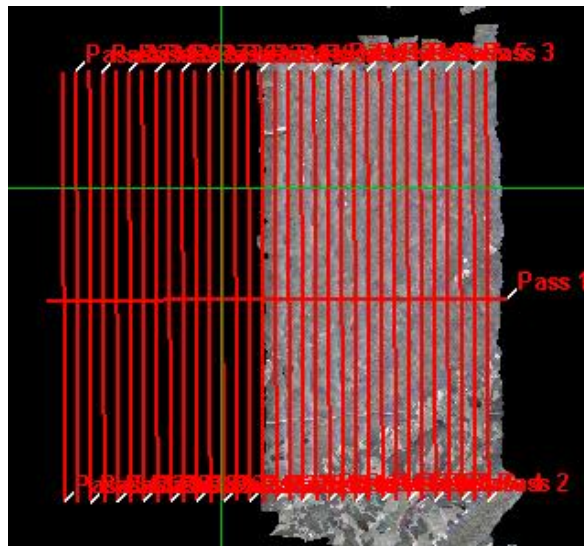
Total number of lines flown: 17

Flight Screenshots

Lidar



NIS



Pictures

Despite a clear forecast and good visuals from the tower camera before take-off, severe haze and cirrus over MLBS.



Cumulative Domain Coverage

D02 | BLAN (Blandy Experimental Farm)

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							

Flown: 0% (0/33)

Green: 0% (0/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

* Flown within 35deg solar angle

D02 | SCBI (Smithsonian Conservation Biology Institute)

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								

Flown: 100% (32/32)

Green: 47% (15/32)

Yellow: 53% (17/32)

Red: 0% (0/32)

* Flown within 35deg solar angle

D02 | SERC (Smithsonian Ecological Research Center)

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														

Flown: 100% (26/26)

Green: 0% (0/26)

Yellow: 100% (26/26)

Red: 0% (0/26)

* Flown within 35deg solar angle

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)

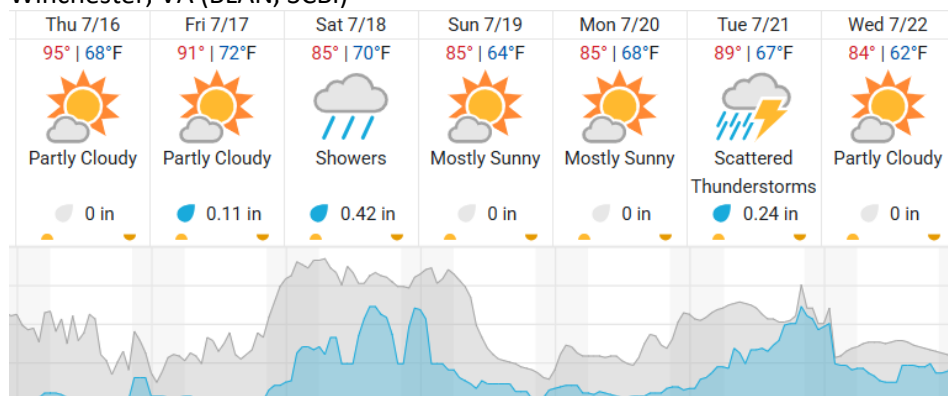
Yellow: 0% (0/34)

Red: 50% (17/34)

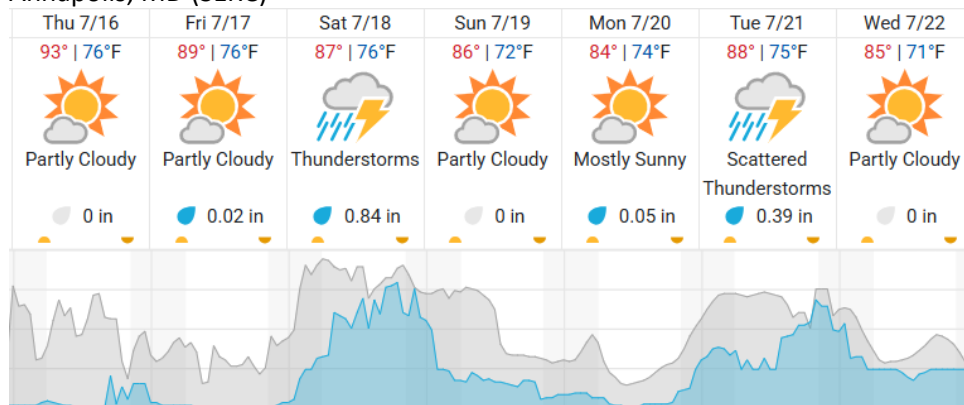
* Flown within 35deg solar angle

Weather Forecast

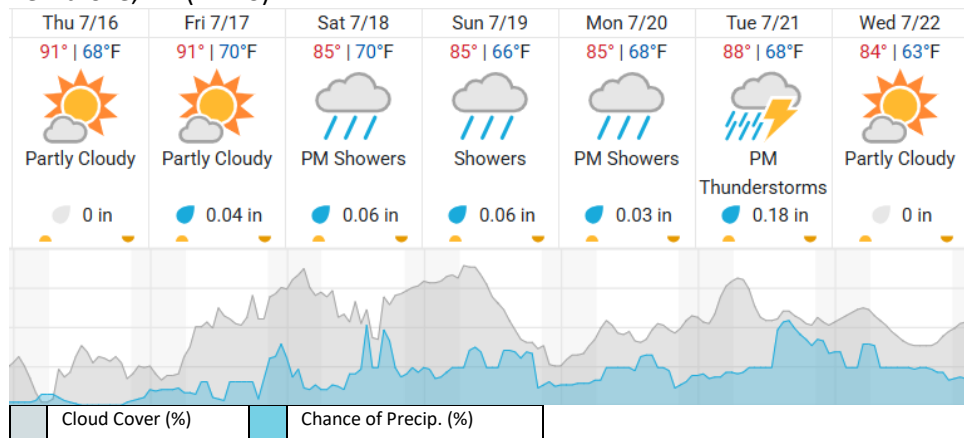
Winchester, VA (BLAN, SCBI)



Annapolis, MD (SERC)



Pembroke, VA (MLBS)



source: wunderground.com

Flight Collection Plan for 16 July 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: 13:30 UTC / 09:30 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: 13:40 UTC / 09:40 L

Flyority 3

Collection Area: Blandy Experimental Farm (BLAN)

Flight Plan Name: D02_BLAN_R2_P1_v4_VQ780

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

Flyority 4

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

Crew: John (Lidar), Alyssa (NIS)