

Payload 2 Daily Flight Report

Date: 2025-08-16

Flight Campaign ID: P2C1

Airport, FBO ID, City: Nashua Airport (KASH) - Nashua, NH

Aircraft: N615AR

Domain: 01 (Northeast)

Sites Flown: BART (Bartlett Experimental Forest)

Days left in Domain: 23

Report Author: Elissa

Lidar Operators: Elissa

Spectrometer Operators: Cameron

Pilots: Manning, Justin

Flight Hours: 02:01

Hours until maintenance: 28.93

GPS Instruments: AOP_BART

Summary

With a spell of sub-optimal weather coming up and overcast conditions at HARV, we attempted to take advantage of a brief green window at BART. However, cumulus clouds began to form ahead of schedule, and conditions had already shifted into yellow by the time we arrived on site. We collected six low-priority lines before calling it off for red conditions.

Concerns

None.

Comments

Upon starting up the acquisition computer, Windows switched the drive lettering of the RiAcquire USB and Camera disk. It was flown as-is, but camera data was written to the RiAcquire USB and vice versa. Data to be manually rearranged for extraction. For future flights this should be verified and the drive letters switched if needed.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

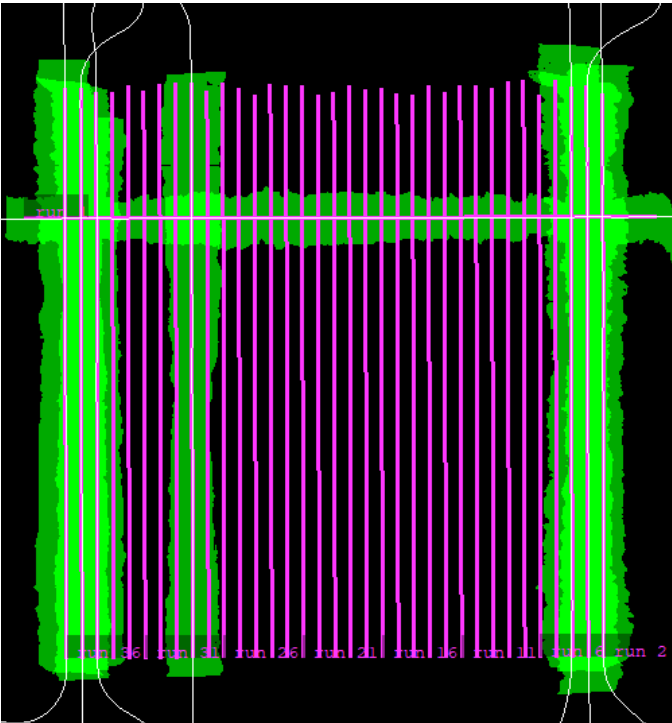
D01|BART

Line #	2	3	4	28	34	35	36
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover							

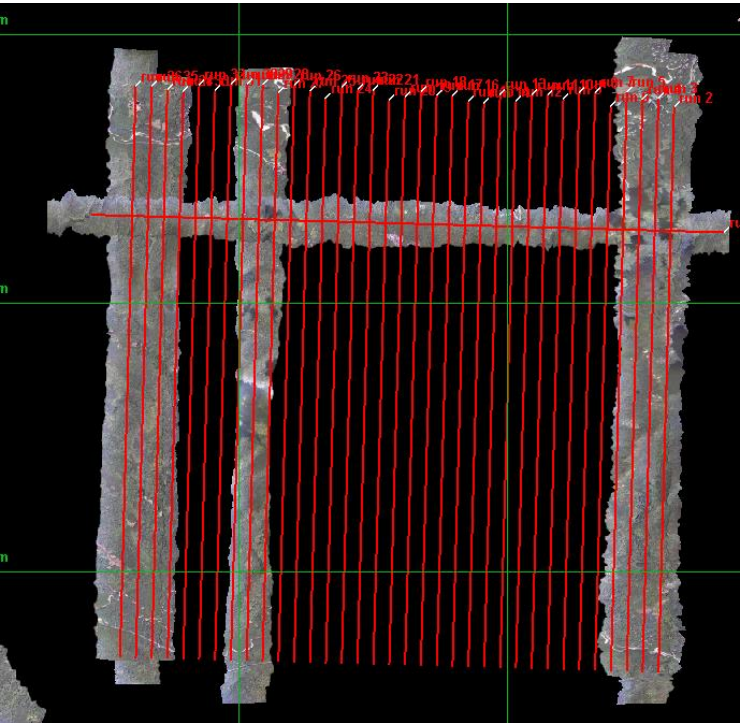
Total number of lines flown: 7

Flight Screenshots

Lidar



NIS



Cumulative Domain Coverage

D01 | BART (Bartlett Experimental Forest)

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	35	36				

Flown: 22% (8/36)
Green: 0% (0/36)
Yellow: 22% (8/36)
Red: 0% (0/36)
* Flown within 35deg solar angle

D01 | HARV_P1 (Harvard Forest Priority 1)

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											

Flown: 0% (0/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 0% (0/29)
* Flown within 35deg solar angle

D01 | HARV_P3 (Harvard Forest Priority 3)

1	2	3	4	5	6	7	8
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Flown: 0% (0/8)
Green: 0% (0/8)
Yellow: 0% (0/8)
Red: 0% (0/8)
* Flown within 35deg solar angle

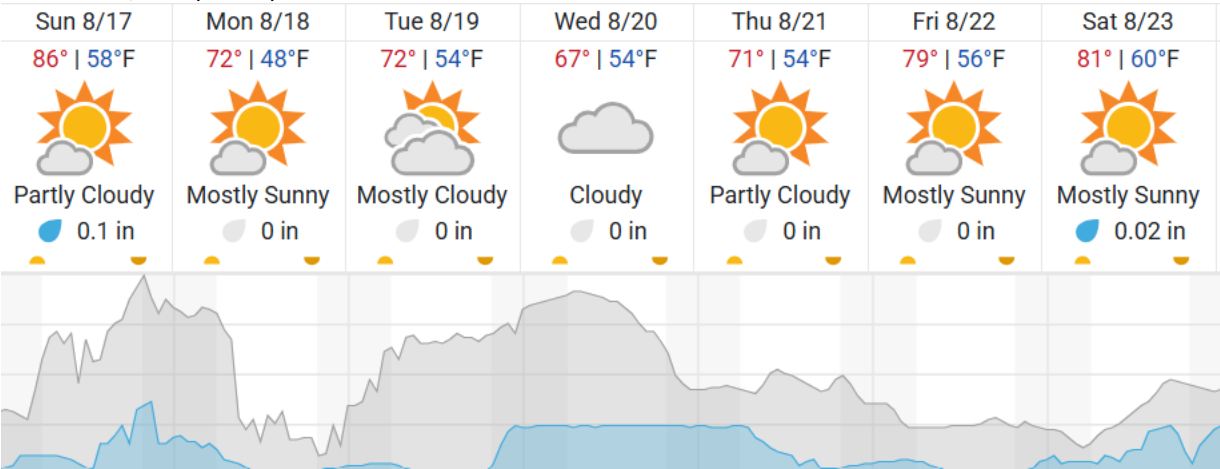
D01 | HOPB (Hop Brook)

1	2	3	4	5	6	7	8	9	10
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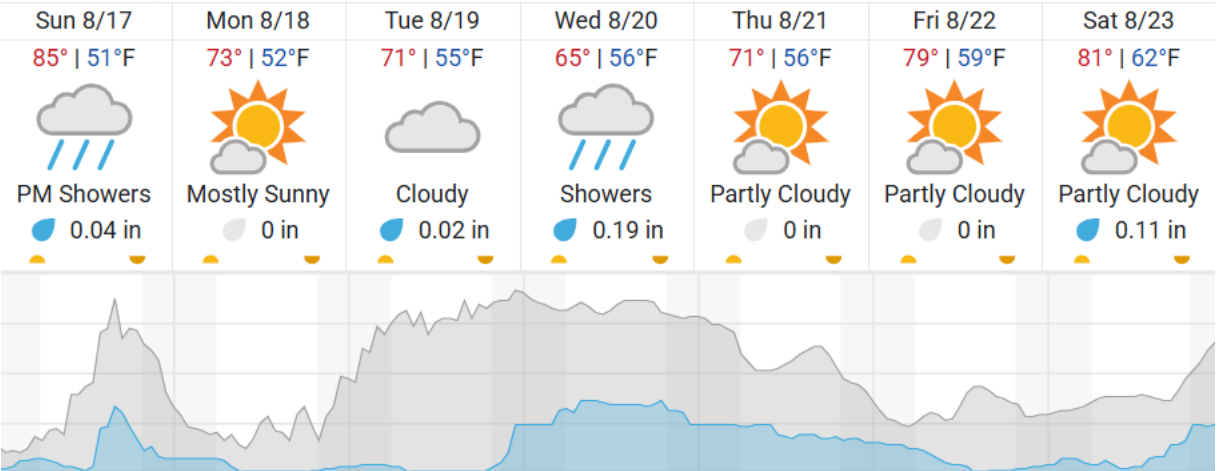
Flown: 0% (0/10)
Green: 0% (0/10)
Yellow: 0% (0/10)
Red: 0% (0/10)
* Flown within 35deg solar angle

Weather Forecast

Petersham, MA (HARV)



Bartlett, NH (BART)



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for 17 August 2025

Flyority 1
Collection Area: Harvard Forest (HARV) – Priority 1 Flight Box
Flight Plan Name: D01_HARV_C1_P1_P2_v5_VQ780
On-Station Time: 1350 UTC / 0950 L

Flyority 2

Collection Area: Bartlett Experimental Forest (BART)

Flight Plan Name: D01_BART_R1_P1_v3_VQ780

On-Station Time: 1350 UTC / 0950 L

Flyority 3

Collection Area: Hop Brook (HOPB)

Flight Plan Name: D01_HOPB_A1_P1_v3_VQ780

On-Station Time: 1350 UTC / 0950 L

Flyority 4

Collection Area: Harvard Forest (HARV) – Priority 2 Flight Box

Flight Plan Name: D01_HARV_C1_P1_P2_v5_VQ780

On-Station Time: 1350 UTC / 0950 L

Crew: Cameron (Lidar), Elissa (NIS)