



Payload 2 Daily Flight Report



Date: 2026-08-26

Flight Campaign ID: P2C1

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

Aircraft: N821AR

Domain: 01 (Northeast)

Sites Flown: HARV_P1 (Harvard Forest Priority 1)

Days left in Domain: 9

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 01:32

Spectrometer Operators: Mitch

Hours until maintenance: 90.17

Pilots: Justin, Rusty

GPS Instruments: AOP_HARV, C-ZBW1

Summary

The crew completed 6 lines in red sky conditions this morning, partially utilizing the 35° solar elevation before low-level cumulus clouds formed beneath the aircraft, preventing further data collection.

Concerns

- None

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

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

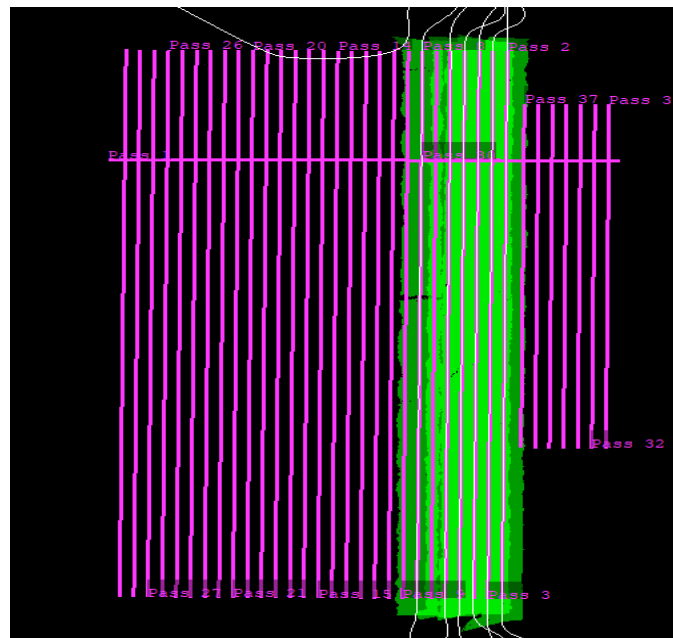
Solar Angle Less Than 40 degrees: (*)

D01|HARV_P1

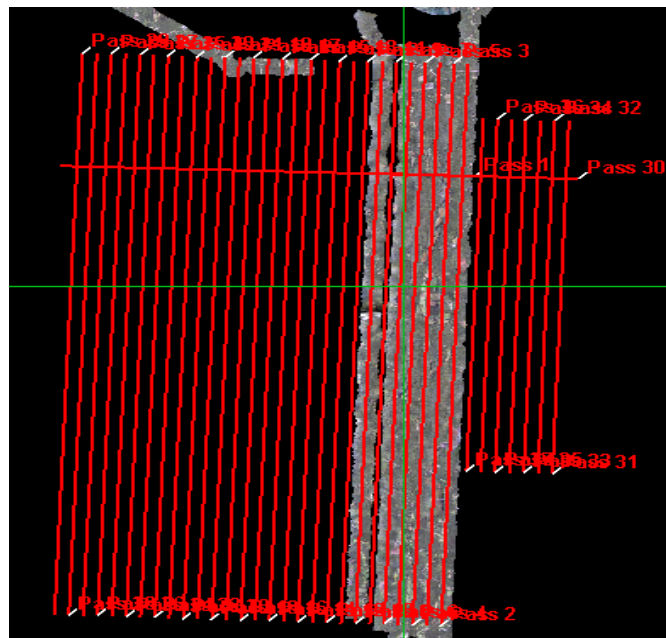
Line #	2	3	4	5	6	8
Lidar	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

Total number of lines flown: 6

Flight Screenshots



NIS GeoPaint



Pictures: Morning skies over HARV upon arrival.



Cumulative Domain Coverage

D01|BART (Bartlett Experimental Forest)

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

D01|HARV_P1 (Harvard Forest Priority 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: 21% (6/28)
Green: 0% (0/28)
Yellow: 4% (1/28)
Red: 18% (5/28)
* Flown within 35deg solar angle

D01|HARV_P2 (Harvard Forest Priority 2)

31	32	33	34	35	36	37
----	----	----	----	----	----	----

Flown: 100% (7/7)
Green: 0% (0/7)
Yellow: 100% (7/7)
Red: 0% (0/7)
* Flown within 35deg solar angle

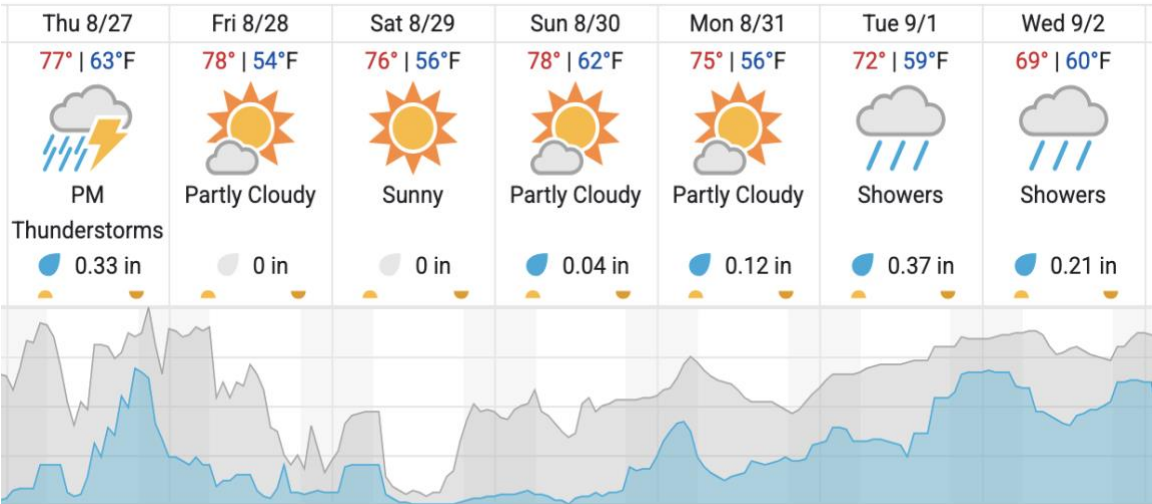
D01|HOPB (Hop Brook)

2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	----

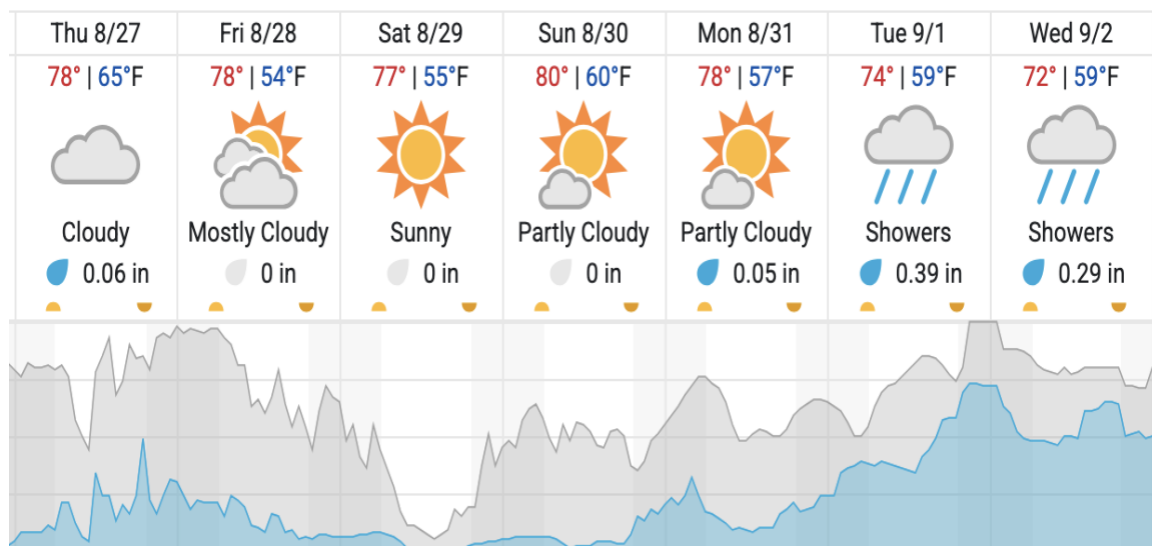
Flown: 0% (0/9)
Green: 0% (0/9)
Yellow: 0% (0/9)
Red: 0% (0/9)
* Flown within 35deg solar angle

Weather Forecast

Bartlett, NH (BART)



Petersham, MA (HARV, HOPB)



source: wunderground.com

Flight Collection Plan for August 27, 2026

Flyority 1

Collection Area: Bartlett Experimental Forest (BART)

Flight Plan Name: D01_BART_R1_P1_v3_VQ780

On-Station Time: 1400 UTC / 1000 L

Flyority 2

Collection Area: Harvard Forest (HARV) – Priority 1 Flight Box

Flight Plan Name: D01_HARV_C1_P1_P2_v5_VQ780

On-Station Time: 1400 UTC / 1000 L

Flyority 3

Collection Area: Hop Brook (HOPB)

Flight Plan Name: D01_HOPB_A1_P1_v3_VQ780

On-Station Time: 1400 UTC / 1000 L

Flyority 4

Collection Area: Harvard Forest (HARV) – Priority 2 Flight Box (**only if green*)

Flight Plan Name: D01_HARV_C1_P1_P2_v5_VQ780

On-Station Time: 1400 UTC / 1000 L

Crew: Mitch (Lidar), Cameron (NIS)