



Payload 2 Daily Flight Report



Date: 2025-08-23

Flight Campaign ID: P2C1

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

Aircraft: N615AR

Domain: 01 (Northeast)

Sites Flown: HARV_P1 (Harvard Forest Priority 1)

Days left in Domain: 16

Report Author: Mitch

Lidar Operators: Mitch

Flight Hours: 02:13

Spectrometer Operators: Mike

Hours until maintenance: 22.37

Pilots: Justin, Manning

GPS Instruments: AOP_HARV, C-ZBW1, S-NHNU

Summary

Crew was able to get airborne this morning and collected 10 lines and a cross strip under green conditions at Harvard Forest before building cumulus clouds pushed collections into the non-green category. The spectrometer was operated with the chamber isolated from the manifold and getter, holding fairly stable in the $\sim 2e-5$ Torr range. Post flight, the turbopump was reattached and pumping resumed.

Concerns

Replacement ION Pump and Getter expected to arrive next week.

Comments

Elissa departed D01 today. Thanks for all the hard work!

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D01|HARV_P1

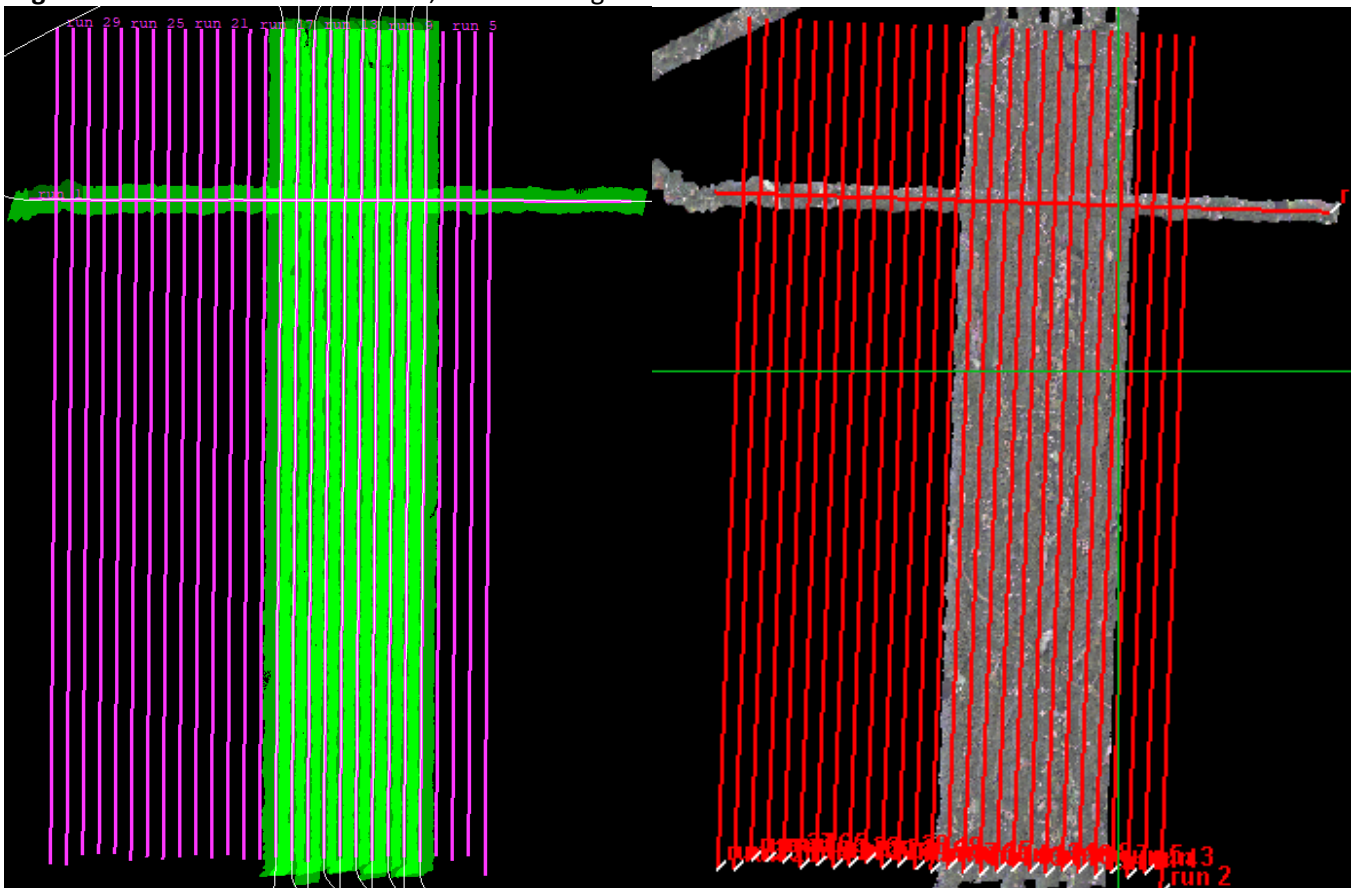
Line #	1	6	7	8	9	10	11	12	13	14	15
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover											

Total number of lines flown: 11

Pictures: Looking east across Harvard Forest.



Flight Screenshots: Lidar on the left, NIS on the right



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: 100% (35/35)

Green: 100% (35/35)

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: 36% (10/28)

Green: 36% (10/28)

Yellow: 0% (0/28)

Red: 0% (0/28)

* Flown within 35deg solar angle

D01 | HARV_P2 (Harvard Forest Priority 2)

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

Flown: 0% (0/7)

Green: 0% (0/7)

Yellow: 0% (0/7)

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)

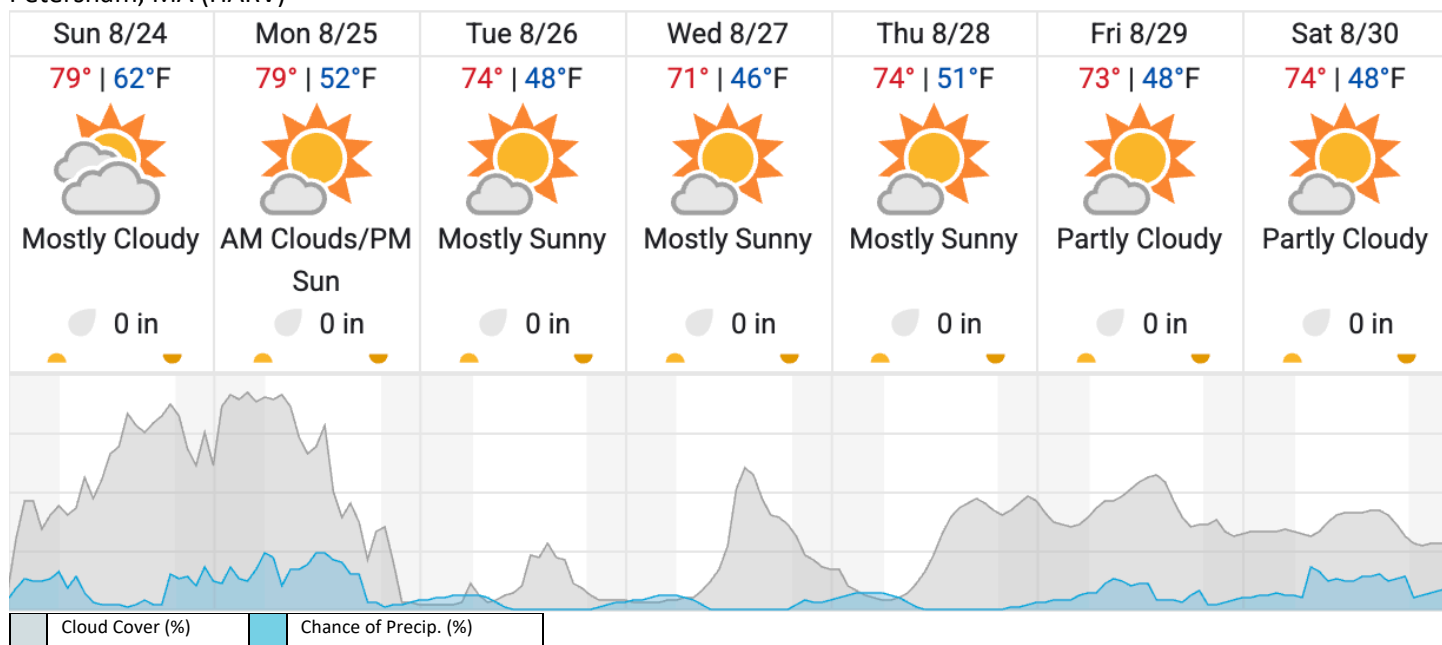
Yellow: 0% (0/9)

Red: 0% (0/9)

* Flown within 35deg solar angle

Weather Forecast

Petersham, MA (HARV)



source: wunderground.com

Flight Collection Plan for 24 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: Hop Brook (HOPB)

Flight Plan Name: D01_HOPB_A1_P1_v3_VQ780

On-Station Time: 1350 UTC / 0950 L

Flyority 3

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: Mike (Lidar), Mitch (NIS)