



Payload 3 Daily Flight Report



**Date:** 2022-08-04  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Nashua Airport (KASH) - Nashua, NH  
**Aircraft:** N70AR

**Domain:** 01 (Northeast)  
**Sites Flown:** HARV\_P1 (Harvard Forest Priority 1)  
**Days left in Domain:** 22

**Report Author:** Mitch  
**Lidar Operators:** Mitch      **Flight Hours:** 02:57  
**Spectrometer Operators:** John      **Hours until maintenance:** 76.02  
**Pilots:** Justin , Magnus      **GPS Instruments:** 06 - KASH, AOP\_HARV

**Summary**

Hot, humid, and slightly hazy day here in D01 allowed the crew to knock off 13 more lines of the Priority 1 Harvard Forest Flight Box before building cumulus clouds pushed us out of green conditions.

**Concerns**

None

**Comments**

None

**Daily Coverage**

Estimated Cloud Cover Key

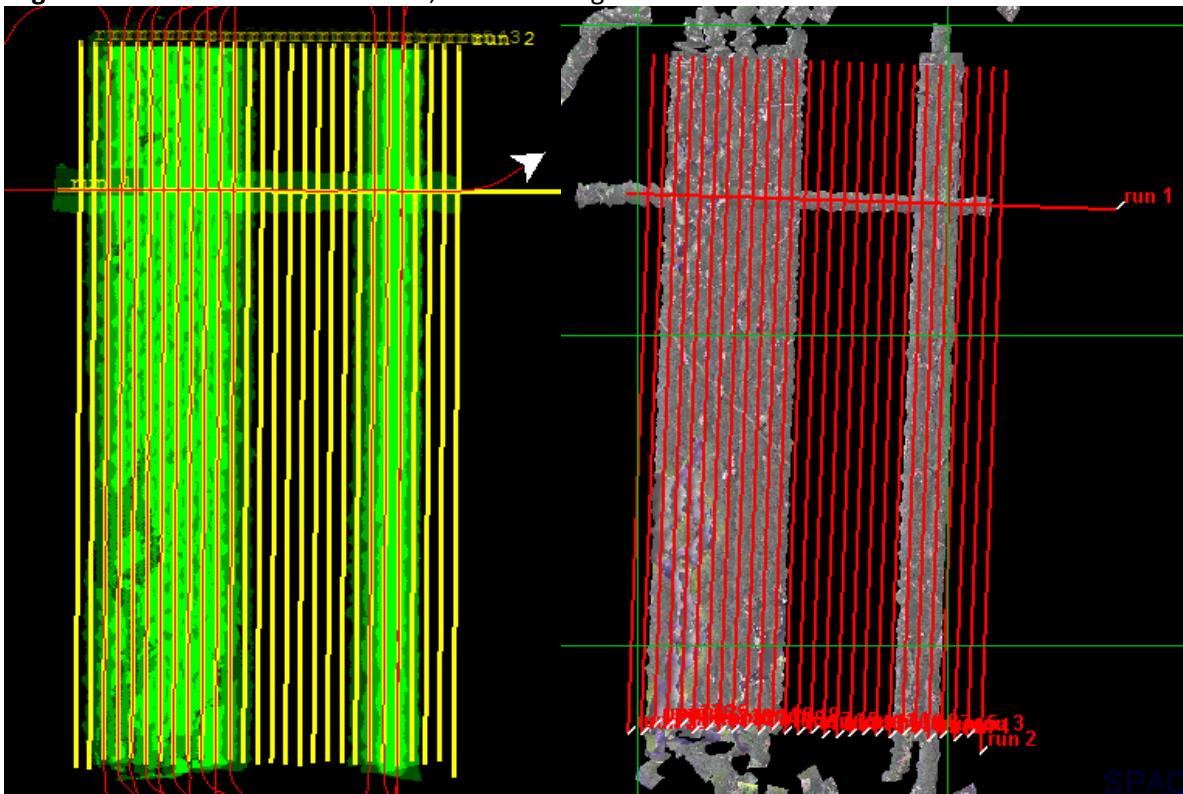
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D01|HARV\_P1

Line #	6	7	8	18	19	20	21	22	23	24	25	26	27
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover													

Total number of lines flown: 13

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



Pictures: Some haze, but an otherwise clear day above Harvard Forest



## 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: 0% (0/36)

Green: 0% (0/36)

Yellow: 0% (0/36)

Red: 0% (0/36)

### 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: 79% (23/29)

Green: 79% (23/29)

Yellow: 0% (0/29)

Red: 0% (0/29)

### D01 | HARV\_P2 (Harvard Forest Priority 2)

30	31	32	33	34	35	36	37
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Flown: 0% (0/8)

Green: 0% (0/8)

Yellow: 0% (0/8)

Red: 0% (0/8)

### 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)

### D01 | R01A (FLARE Radiometric Calibration Flight Plan - New Hampshire)

1	2
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Flown: 0% (0/2)








Green: 0% (0/2)

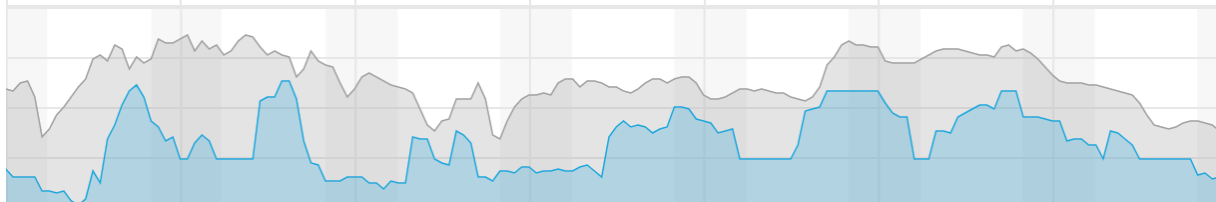
Yellow: 0% (0/2)

Red: 0% (0/2)

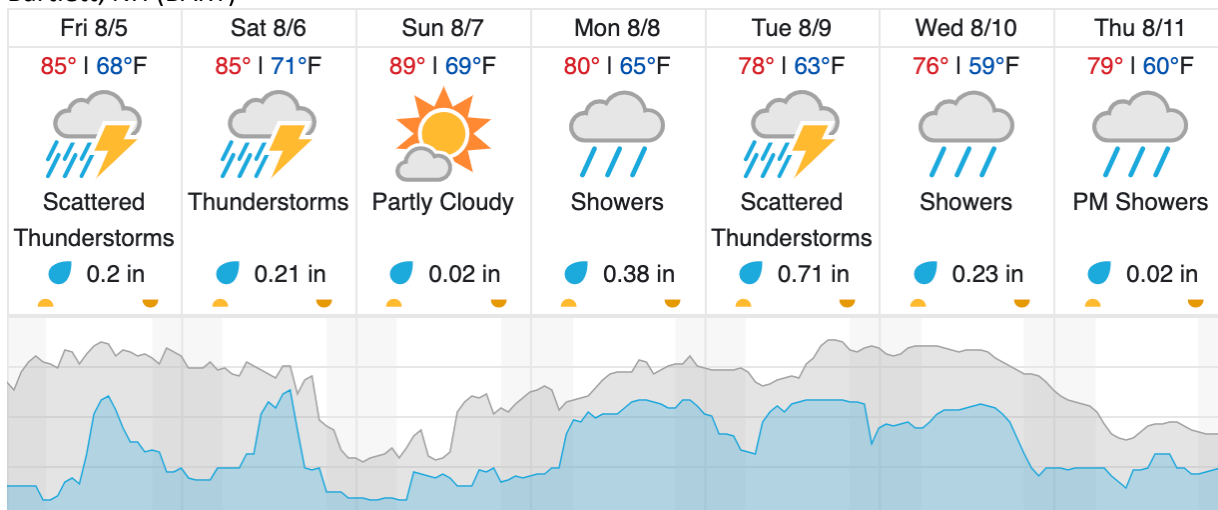
## Weather Forecast

### Petersham, MA (HARV)

Fri 8/5	Sat 8/6	Sun 8/7	Mon 8/8	Tue 8/9	Wed 8/10	Thu 8/11
88°   67°F	84°   70°F	87°   69°F	86°   64°F	82°   63°F	77°   58°F	80°   58°F
						
PM Thunderstorms	Thunderstorms	Scattered Thunderstorms	Scattered Thunderstorms	PM Thunderstorms	Showers	AM Showers
0.22 in	0.16 in	0.08 in	0.22 in	0.24 in	0.34 in	0.03 in



**Bartlett, NH (BART)**



source: wunderground.com

**Flight Collection Plan for 05 August 2022**

**Flyority 1:**

Collection Area: Harvard Forest – Priority 1 (HARV\_P1)

Flight Plan Name: D01\_HARV\_C1\_P1\_v3\_Q780

On-station Time: 1330 UTC / 0930 L

**Flyority 2:**

Collection Area: Bartlett Experimental Forest (BART)

Flight Plan Name: D01\_BART\_R1\_P1\_v1\_Q780

On-station Time: 1330 UTC / 0930 L

**Flyority 3:**

Collection Area: Hop Brook (HOPB)

Flight Plan Name: D01\_HOPB\_A1\_P1\_v1\_Q780

On-station Time: 1330 UTC / 0930 L

**Flyority 4:**

Collection Area: Harvard Forest – Priority 2 (HARV\_P2)

Flight Plan Name: D01\_HARV\_C1\_P2\_v3\_Q780

On-station Time: 1330 UTC / 0930 L

**Flyority 5:**

Collection Area: FLARE Radiometric Calibration Flight Plan – New Hampshire

Flight Plan Name: D01\_R01A\_FLARE\_1000m\_v2\_Q780

On-station Time: 1330 UTC / 0930 L

Crew: John, Mitch