



## Payload 1 Daily Flight Report



**Date:** 2024-08-23

**Flight Campaign ID:** P1C1

**Airport, FBO ID, City:** Nashua Airport at Boire Field (KASH) - Nashua, NH

**Aircraft:** N615AR

**Domain:** 01 (Northeast)

**Sites Flown:** HARV\_P1 (Harvard Forest Priority 1)

**Days left in Domain:** 15

**Report Author:** Elissa

**Lidar Operators:** Elissa

**Spectrometer Operators:** Abe

**Pilots:** Justin, Jacob

**Flight Hours:** 02:57

**Hours until maintenance:** 62.93

**GPS Instruments:** 07 - KASH, AOP\_HARV

### Summary

Eight lines were successfully collected in green this morning before cumulus developed into yellow and finally red conditions, with large shadows ultimately pushing us off the site.

### Concerns

At the beginning of today's collection the NIS displayed a positional error in the swath, prompting a restart. Low DN values were then observed, and several other restarts were required, resulting in about a half hour of lost collection time.

### Comments

None.

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #
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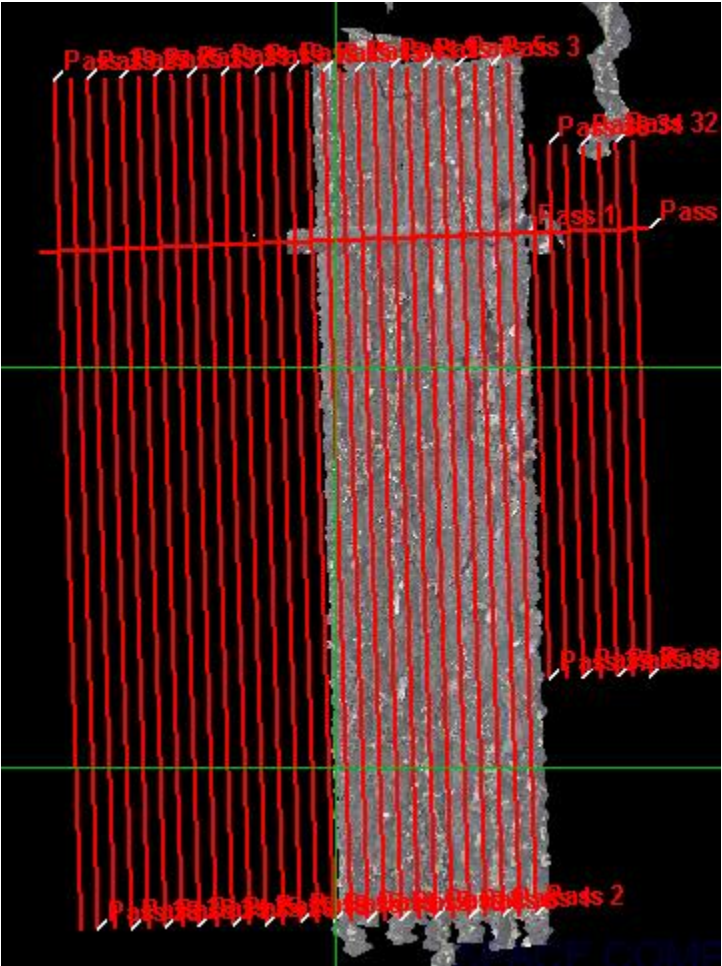
D01|HARV\_P1

Line #	2	3	4	5	6	7	8	9	10	11	12	13
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Red	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green

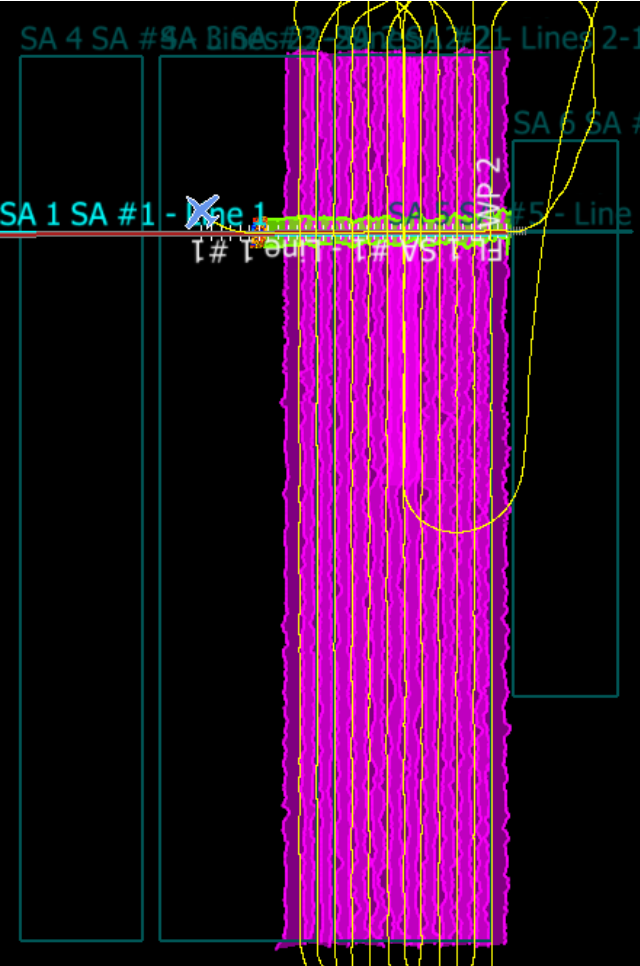
Total number of lines flown: 12

Flight Screenshots

NIS



Lidar



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)

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: 43% (12/28)  
Green: 29% (8/28)  
Yellow: 11% (3/28)  
Red: 4% (1/28)

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

31	32	33	34	35	36	37
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Flown: 100% (7/7)

Green: 0% (0/7)

Yellow: 100% (7/7)

Red: 0% (0/7)

## D01 | HOPB (Hop Brook)

2	3	4	5	6	7	8	9	10
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Flown: 0% (0/9)

Green: 0% (0/9)

Yellow: 0% (0/9)

Red: 0% (0/9)

## D01 | N01A (D01 Nominal Runway)

1	2
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Flown: 100% (2/2)

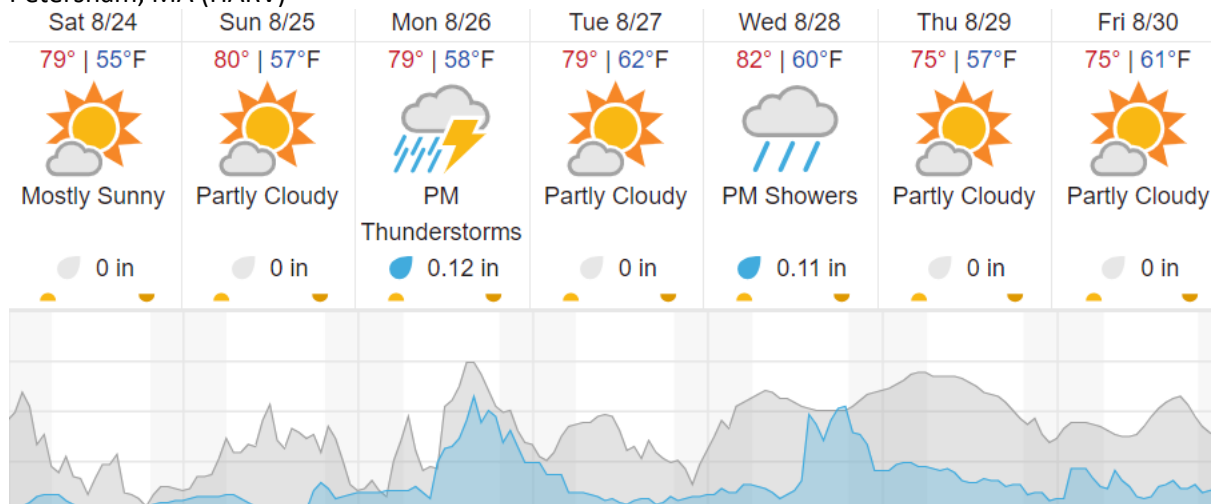
Green: 0% (0/2)

Yellow: 100% (2/2)

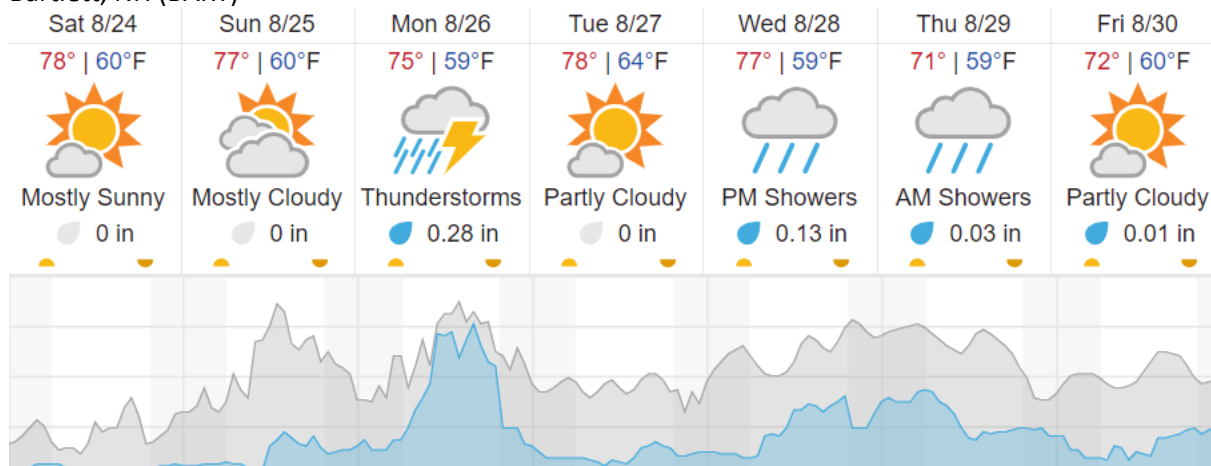
Red: 0% (0/2)

## Weather Forecast

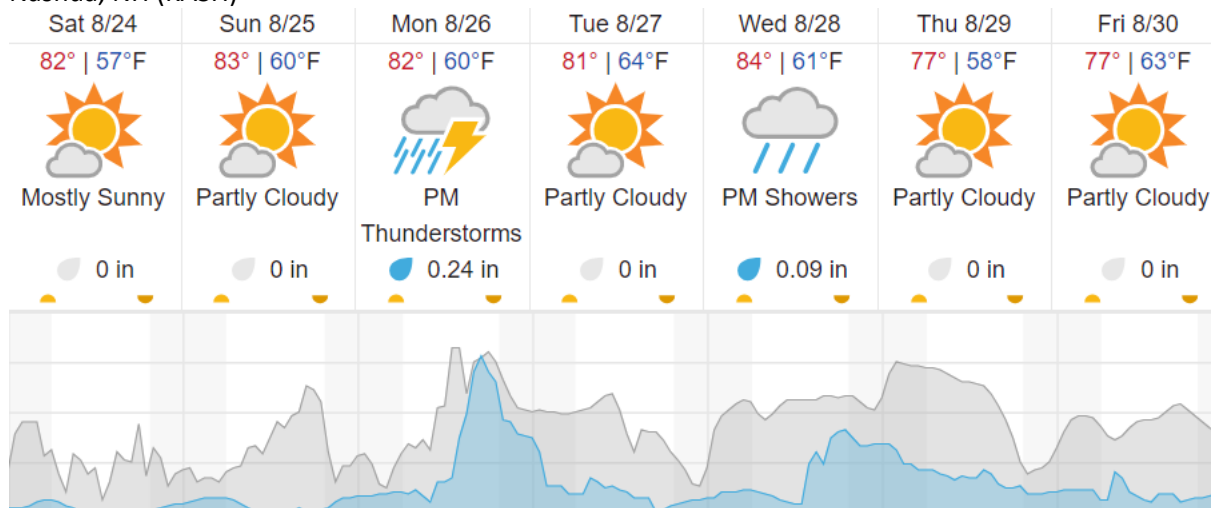
### Petersham, MA (HARV)



### Bartlett, NH (BART)



## Nashua, NH (KASH)



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

## Flight Collection Plan for 24 August 2024

### Flyority 1:

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

Flight Plan Name: D01\_HARV\_C1\_P1\_P2\_v4\_PRM.xml

On-station Time: 1350 UTC / 0950 L

### Flyority 2:

Collection Area: Bartlett Experimental Forest (BART)

Flight Plan Name: D01\_BART\_R1\_P1\_v2\_PRM.xml

On-station Time: 1350 UTC / 0950 L

### Flyority 3:

Collection Area: Hop Brook (HOPB)

Flight Plan Name: D01\_HOPB\_A1\_P1\_v2\_PRM.xml

On-station Time: 1350 UTC / 0950 L

### Flyority 4: *(if green)*

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

Flight Plan Name: D01\_HARV\_C1\_P1\_P2\_v4\_PRM.xml

On-station Time: 1350 UTC / 0950 L

Crew: Abe (Lidar), Elissa (NIS)