



## Payload 1 Daily Flight Report



**Date:** 2024-08-29

**Flight Campaign ID:** P1C1

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

**Aircraft:** N615AR

**Domain:** 01 (Northeast)

**Sites Flown:** BART (Bartlett Experimental Forest)

**Days left in Domain:** 9

**Report Author:** Mike

**Lidar Operators:** Mike

**Spectrometer Operators:** John

**Pilots:** Will, Justin

**Flight Hours:** 01:34

**Hours until maintenance:** 58.50

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

### Summary

Skies were clear this morning over BART with a forecast free of clouds. After arriving at the airport, some clouds developed and disappeared in a continuous cycle, and we waited until things looked to be improving. We then flew to BART hoping to collect green as indicated on the tower camera. Upon arrival conditions were not optimal, and we decided we would collect low priority lines in yellow, but even that proved to be impossible. With just enough cumulus clouds below survey altitude at various places in the box, we could not complete any full lines without cloud disruption, so the mission was aborted without any useful data being collected.

### Concerns

None

### Comments

The UPS-Ground Power workaround was successfully implemented today consisting of turning on systems after engines have been started and payload is on survey power only. This avoids placing higher current loads on the Ground-Power side of the AXE. No intermittent power loss was experienced on survey power.

### 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: 89% (25/28)  
Green: 29% (8/28)  
Yellow: 25% (7/28)  
Red: 36% (10/28)

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)

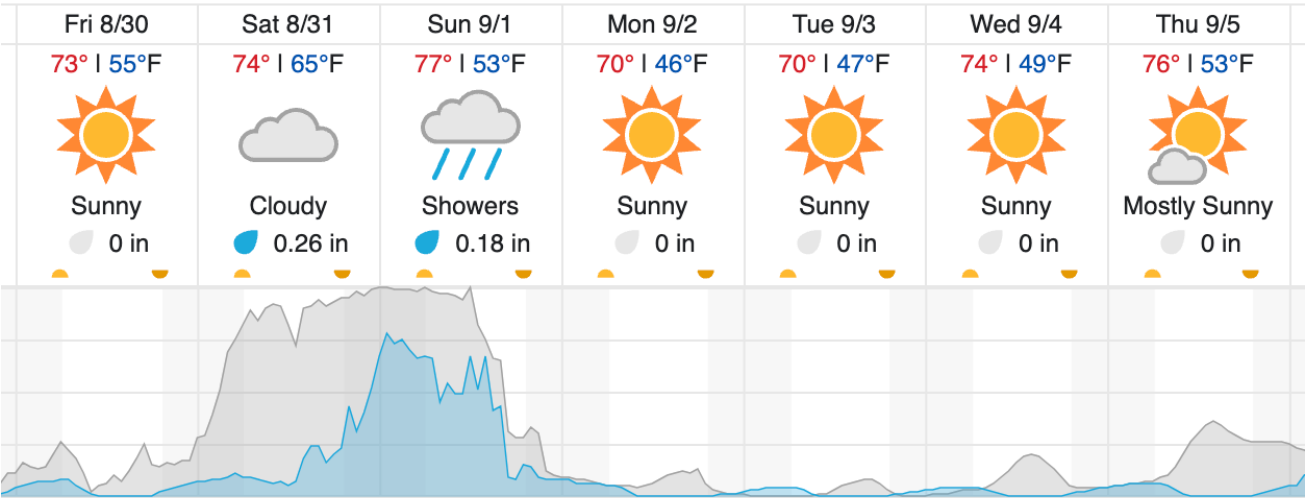
D01|N01A (D01 Nominal Runway )

1	2
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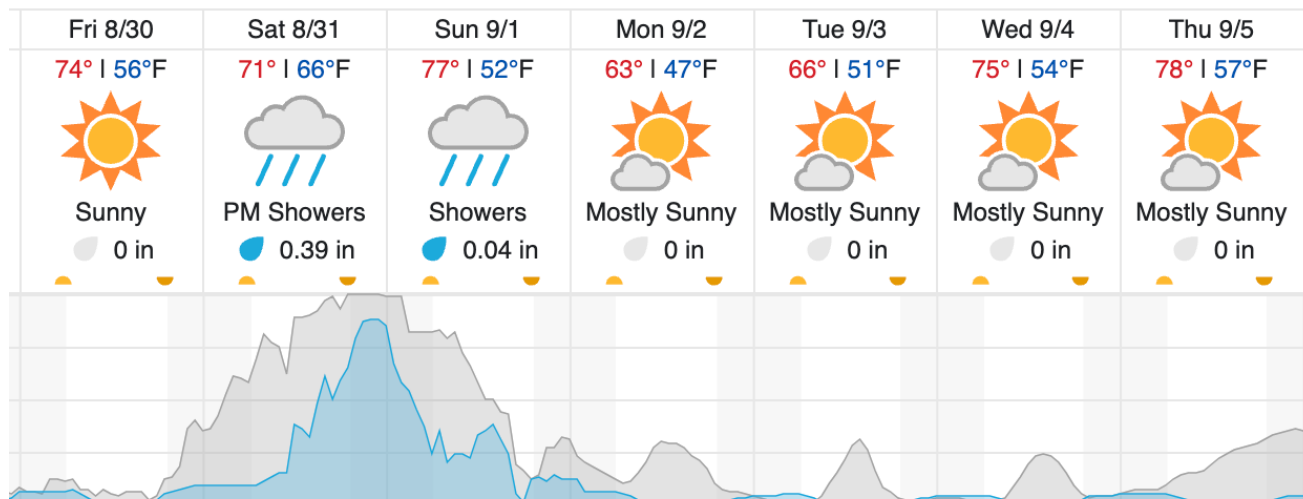
Flown: 100% (2/2)  
Green: 0% (0/2)  
Yellow: 100% (2/2)  
Red: 0% (0/2)

Weather Forecast

Petersham, MA



## Bartlett, NH



source: wunderground.com

## Flight Collection Plan for 30 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: John (Lidar), Mike (NIS)