



Payload 2 Daily Flight Report



Date: 2026-08-29

Flight Campaign ID: P2C1

Airport, FBO ID, City: Nashua Airport (KASH) - Nashua, NH; Laconia Municipal (KLCI) - Laconia, NH

Aircraft: N821AR

Domain: 01 (Northeast)

Sites Flown: BART (Bartlett Experimental Forest)

Days left in Domain: 5

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Cameron

Pilots: Justin, Rusty

Flight Hours: 04:04:00, 01:19:00

Hours until maintenance: 84.78

GPS Instruments: AOP_BART, C-ZBW1, AOP_HARV

Summary

Most clear day yet in D01 allowed the crew to fly north and collect the Bartlett Experiment Forest flight box under a mix of green and yellow conditions.

Concerns

Post BART flight, after landing in Laconia for fuel, the crew proceeded to HARV to attempt an afternoon collect there. Upon arrival, the camera failed to operate. During troubleshooting, the RiAcquire computer crashed completely and restarted itself. Following reboot, a five minute straight-and-level was conducted due to the loss of POS, however an irregular POS accuracy concern remained, with the LiDAR swath painting sideways. With only 10 minutes remaining in the solar angle, the crew determined that continuing the HARV collection was not practical and called flights for the day. A full system restart was determined to be the likely next step to clear out the remaining gremlins and restore normal system operation for the next flight. POS data for the BART collect may need to be trimmed to just the first flight to exclude the RiAcquire crash and restart.

Comments

Pilot Rusty departs tonight and is being replaced by Manning. Thanks for the hard work, Rusty!

Daily Coverage

D01|BART

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover															

Estimated Cloud Cover Key

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

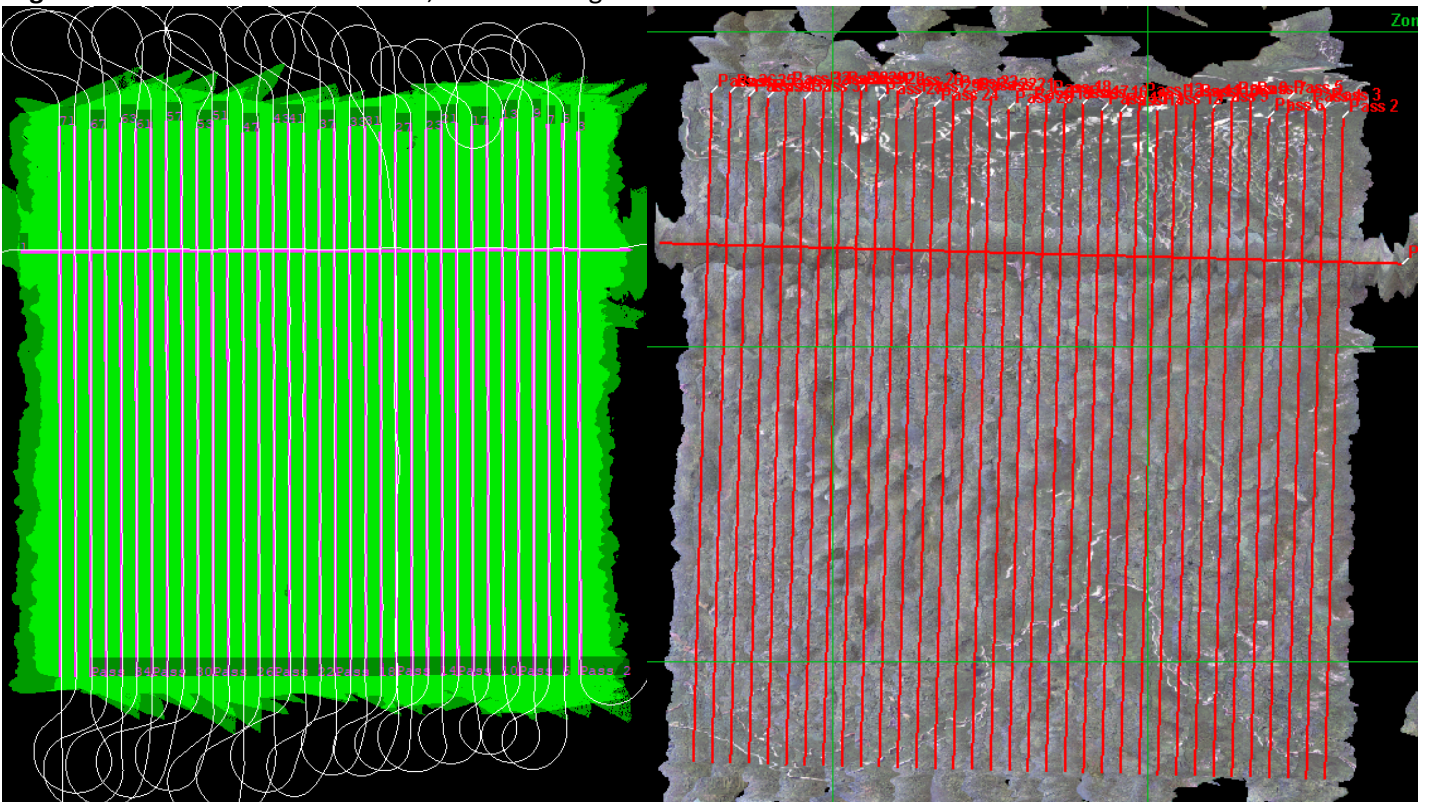
Solar Angle Less Than
40 degrees: (*)

Total number of lines flown: 35

Pictures: Looking east across the Bartlett flight box.



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: 51% (18/35)
Yellow: 49% (17/35)
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
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Flown: 100% (7/7)
Green: 0% (0/7)
Yellow: 100% (7/7)
Red: 0% (0/7)
* Flown within 35deg solar angle

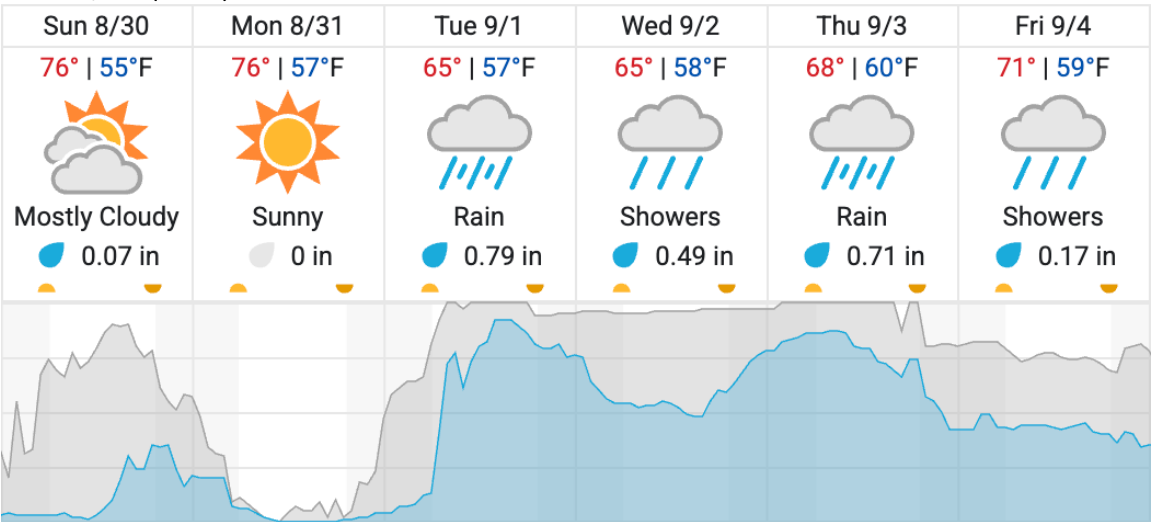
D01|HOPB (Hop Brook)

2	3	4	5	6	7	8	9	10
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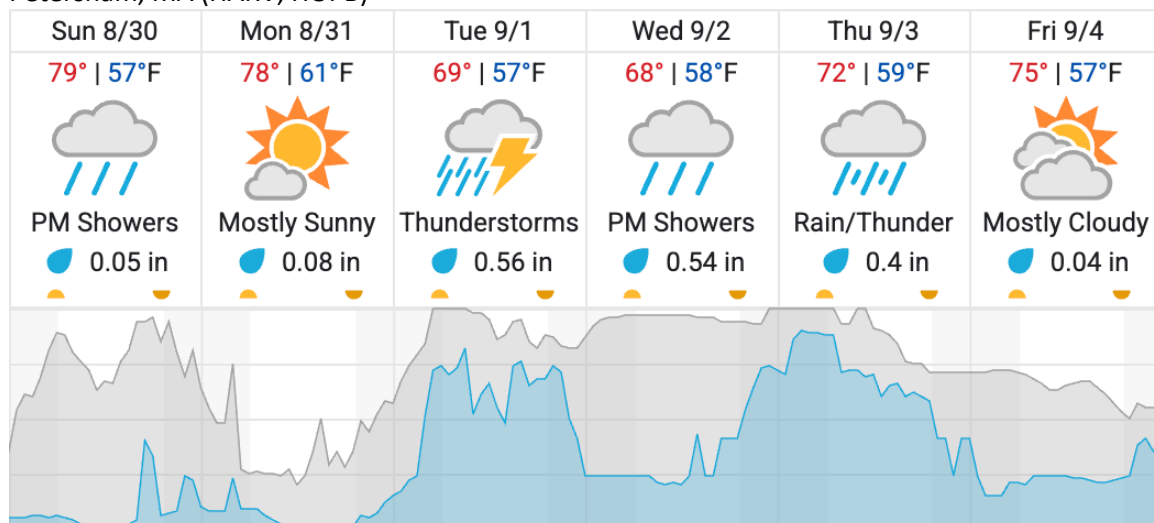
Flown: 0% (0/9)
Green: 0% (0/9)
Yellow: 0% (0/9)
Red: 0% (0/9)
* Flown within 35deg solar angle

Weather Forecast

Bartlett, NH (BART)



Petersham, MA (HARV, HOPB)



source: wunderground.com

Flight Collection Plan for August 30, 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: Cameron (Lidar), Mitch (NIS)