

Payload 3 Daily Flight Report



Date: 2025-08-01

Flight Campaign ID: P3C1

Airport, FBO ID, City: Portland-Hillsborough Airport (KHIO) - Hillsboro, OR

Aircraft: N821AR

Domain: 16 (Pacific Northwest) **Sites Flown**: ABBY (Abby Road)

Days left in Domain: 2

Report Author: Matt

Lidar Operators: Matt Flight Hours: 03:43

Spectrometer Operators: Nick Hours until maintenance: 96.38 **Pilots**: Mack, Jacob **GPS Instruments**: AOP_ABBY, U-P385

Summary

Overcast and foggy conditions were present at the ABBY site during the start of our solar angle. The crew delayed until conditions were acceptable for collections. Once on station, lines 1 - 31 were flown. Midway through, heavy smoke moved into the North and East, adjacent to our survey area.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

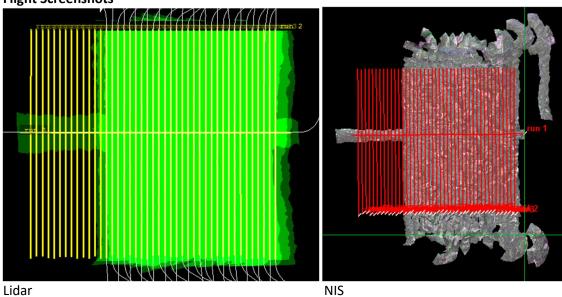
D16 | ABBY

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
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
Cloud Cover										

Total number of lines flown: 30

Flight Screenshots



Cumulative Domain Coverage

D16 ABBY (Abby Road)

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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	37	38	39	40
41	42	43	44		•	•					•	•	•				•		

Flown: 70% (31/44) Green: 0% (0/44) Yellow: 43% (19/44) Red: 27% (12/44)

D16 | MCRA (McRae Creek)

Did I William Concern													
1	2	3	4	5	6	7	8	9					

Flown: 0% (0/9) Green: 0% (0/9) Yellow: 0% (0/9) Red: 0% (0/9)

D16 | WREF_P1 (Wind River Experimental 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	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57			

Flown: 100% (57/57) Green: 98% (56/57) Yellow: 2% (1/57)

^{*} Flown within 35deg solar angle

^{*} Flown within 35deg solar angle

Red: 0% (0/57)

* Flown within 35deg solar angle

D16 | WREF P2 (Wind River Experimental Forest Priority 2)

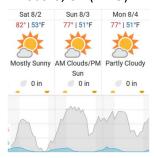
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58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
78	79																		

Flown: 100% (22/22) Green: 0% (0/22) Yellow: 100% (22/22) Red: 0% (0/22)

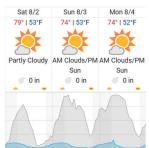
* Flown within 35deg solar angle

Weather Forecast

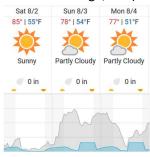
Hillsboro, OR (KHIO)



Battleground, WA (WREF, ABBY)



Mckenzie Bridge, OR (MCRA)



Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for 2 August 2025

Flyority 1

Collection Area: Abby Road (ABBY)

Flight Plan Name: D16_ABBY_R1_P1_v3_Q780

On-Station Time: 1650 UTC / 0950 L

Flyority 2

Collection Area: Wind River Experimental Forest (WREF) P2

Flight Plan Name: D16_WREF_C1_P2_v3_Q780

On-Station Time: 1650 UTC / 0950 L

Flyority 3

Collection Area: McRae Creek (MCRA)

Flight Plan Name: D16_MCRA_A2_P1_ v1_Q780

On-Station Time: 1650 UTC / 0950 L

Crew: Nick (Lidar), Matt (NIS)