



Payload 3 Daily Flight Report

Date: 2025-07-28

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 16 (Pacific Northwest)

Sites Flown: WREF_P1 (Wind River Experimental Forest Priority 1)

Days left in Domain: 6

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 03:07

Spectrometer Operators: Elissa

Hours until maintenance: 103.97

Pilots: Mack, Jacob

GPS Instruments: AOP_WREF, S-ORHI

Summary

The skies cleared in the early afternoon allowing for the collection of 20 priority lines over the Wind River Experimental Forest flight box.

Concerns

- The Midas SSD was not accessible for POS copying. POS files were copied & transferred manually to the Midas SSD.

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

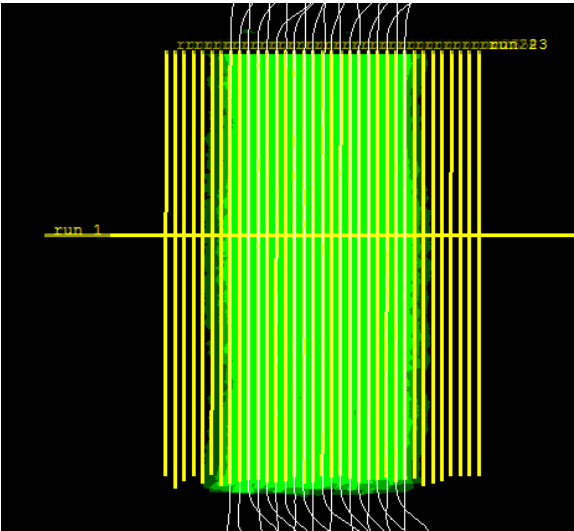
D16|WREF_P1

Line #	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

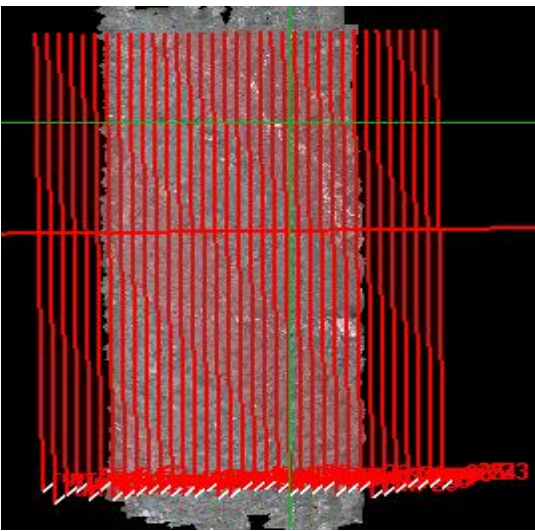
Total number of lines flown: 20

Flight Screenshots

Lidar



NIS



Pictures

Flight Over the WREF this morning



Cumulative Domain Coverage

D16|ABBY (Abby Road)

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: 0% (0/44)

Green: 0% (0/44)

Yellow: 0% (0/44)

Red: 0% (0/44)

* Flown within 35deg solar angle

D16|MCRA (McRae Creek)

1	2	3	4	5	6	7	8	9
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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

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: 37% (21/57)
Green: 35% (20/57)
Yellow: 2% (1/57)
Red: 0% (0/57)
* Flown within 35deg solar angle

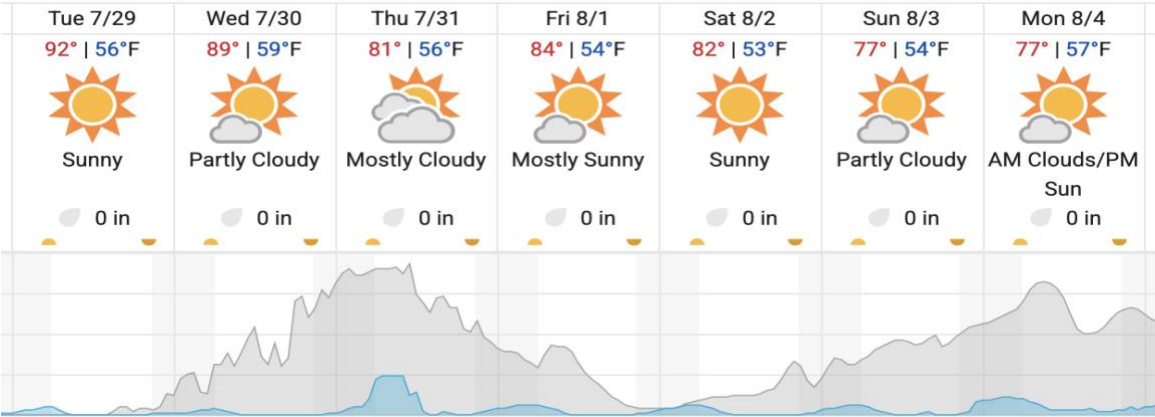
D16|WREF_P2 (Wind River Experimental Forest Priority 2)

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

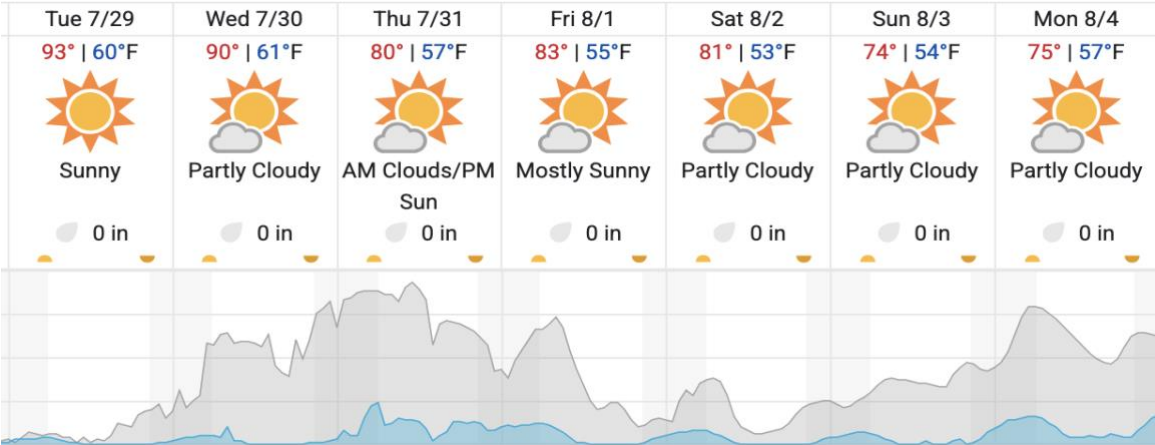
Flown: 100% (22/22)
Green: 0% (0/22)
Yellow: 100% (22/22)
Red: 0% (0/22)
* Flown within 35deg solar angle

Weather Forecast

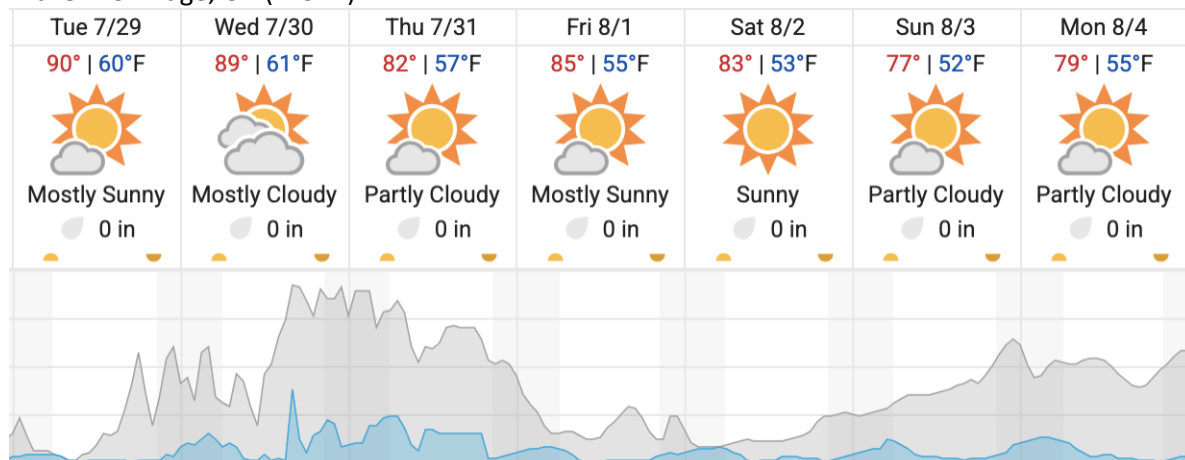
Hillsboro, OR (KHIO)



Carson, WA (WREF, ABBY)



McKenzie Bridge, OR (MCRA)



source: wunderground.com

Flight Collection Plan for 29 July 2025

Flyority 1

Collection Area: Wind River Experimental Forest (WREF) P1

Flight Plan Name: D16_WREF_C1_P1_v4_Q780

On-Station Time: 1650 UTC / 0950 L

Flyority 2

Collection Area: Abby Road (ABBY)

Flight Plan Name: D16_ABBY_R1_P1_v3_Q780

On-Station Time: 1650 UTC / 0950 L

Flyority 3

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 4

Collection Area: McRae Creek (MCRA)

Flight Plan Name: D16_MCRA_A2_P1_v1_Q780

On-Station Time: 1650 UTC / 0950 L

Crew: Elissa (Lidar), Cam (NIS)