

Payload 3 Daily Flight Report



Date: 2025-07-29

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: 5

Report Author: Elissa

Lidar Operators: Elissa **Flight Hours**: 03:52

Spectrometer Operators: Cameron Hours until maintenance: 100.10

Pilots: Mack, Jacob GPS Instruments: AOP_WREF, S-ORHI

Summary

Mostly clear skies this morning permitted another long flight at WREF, and we were able to complete the box in green conditions.

Concerns

Camera QA report failed to generate for yesterday's data set.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

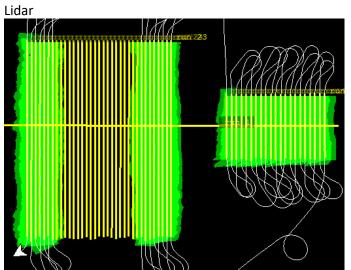
D16|WREF_P1

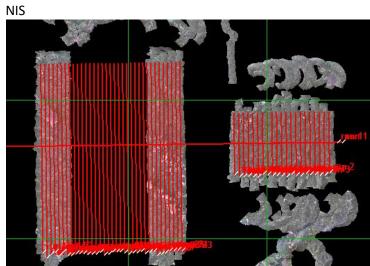
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	√	✓	√	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	\	✓	✓
Spectrometer	√	✓	√	√	√	√	√	✓	✓	√	✓	√	√							
Camera	√	✓	✓	√	√	√	✓	√	√											
Cloud Cover																				

Line #	22	23	24	25	26	27	28	29	30	51	52	53	54	55	56	57
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																

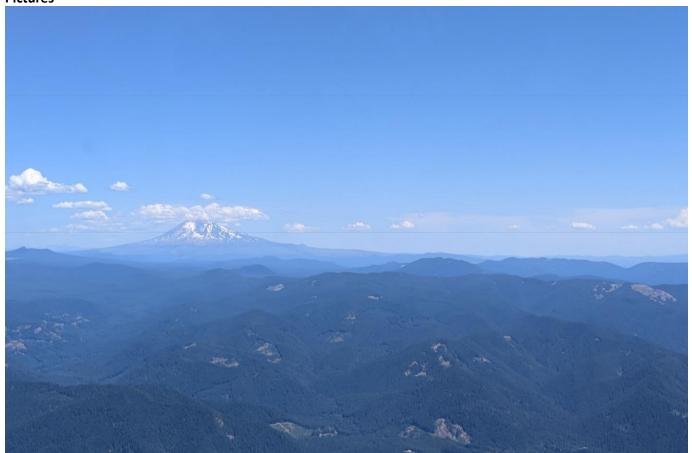
Total number of lines flown: 36

Flight Screenshots





Pictures



Cumulus clouds beginning to form east of the flight box near the end of today's survey.

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
Ī	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ī	41	42	43	44																

Flown: 0% (0/44) Green: 0% (0/44) Yellow: 0% (0/44) Red: 0% (0/44)

D16 | MCRA (McRae Creek)

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) Red: 0% (0/57)

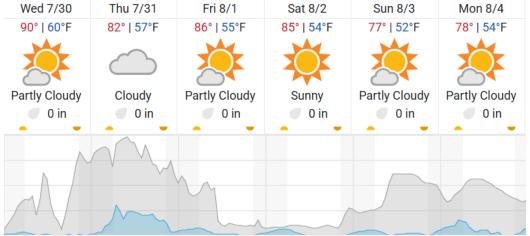
D16 | WREF_P2 (Wind River Experimental Forest Priority 2)

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)

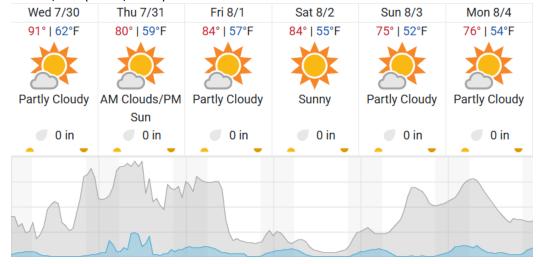
Weather Forecast

Hillsboro, OR (KHIO)

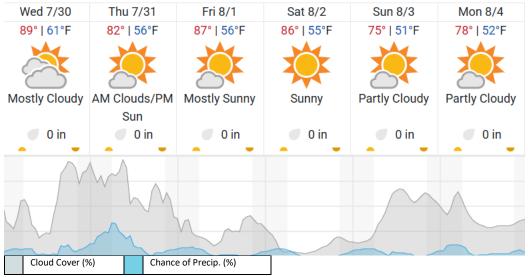


^{*} Flown within 35deg solar angle

Carson, WA (WREF, ABBY)



McKenzie Bridge, OR (MCRA)



source: wunderground.com

Flight Collection Plan for 30 July 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 – only if green

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: Cam (Lidar), Elissa (NIS)