

Payload 1 Daily Flight Report



Date: 2022-07-14

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 16 (Pacific Northwest)

Sites Flown: WREF_P1 (Wind River Experimental Forest Priority 1), WREF_P2 (Wind River Experimental Forest Priority

2), MCRA (McRae Creek)

Days left in Domain: 1

Report Author: Mitch

Lidar Operators: Mitch **Flight Hours**: 04:31, 01:56

Spectrometer Operators: Mike Hours until maintenance: 101.42

Pilots: Jeremy, Vince **GPS Instruments**: 04 - FBO - KHIO, AOP_WREF, U-P385

Summary

Crew was able to successfully wrap up collections here in D16 under 100% green conditions, flying the remainder of WREF and MCRA over two flights today.

Attention will now focus on preparing for Saturday's departure transit to Deadhorse, Alaska and D18 collections.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D16|MCRA

Line #	2	3	4	5	6	7	8	9
Lidar	\checkmark	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	√	√	✓	√	✓	√	✓	✓
Cloud Cover								

Total number of lines flown: 8

D16|WREF P1

DIO WILL II																		
Line #	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
Lidar	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																		

Total number of lines flown: 18

D16|WREF_P2

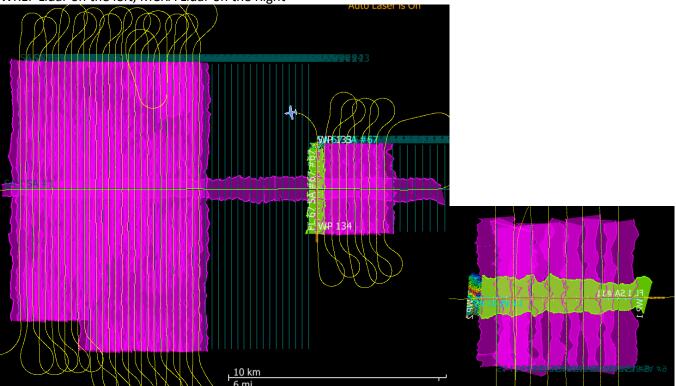
Line #	46	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	√	√	√	√	✓	√														
Cloud Cover																				

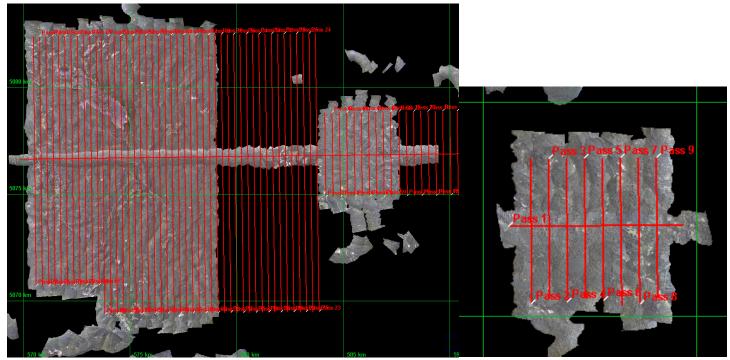
Line #	77	78
Lidar	✓	✓
Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover		

Total number of lines flown: 22

Flight Screenshots

WREF Lidar on the left, MCRA Lidar on the Right





WREF NIS on the left, MCRA NIS on the right

Pictures



Looking east at the Wind River tower and TOS areas.



Southward view of the Columbia River Gorge and Mount Hood

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: 100% (44/44) Green: 100% (44/44) Yellow: 0% (0/44) Red: 0% (0/44)

D16 | MCRA (McRae Creek)

1	2	3	4	5	6	7	8	9
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Flown: 100% (9/9) Green: 100% (9/9) Yellow: 0% (0/9) Red: 0% (0/9)

D16 | N16A (D16 Nominal Runway)

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

D16 | WREF P1 (Wind River Experimental Forest Priority 1)

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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	45	46	47	48	49	50	51	52	53	54	55	56	57			

Flown: 100% (57/57) Green: 100% (57/57) Yellow: 0% (0/57) Red: 0% (0/57)

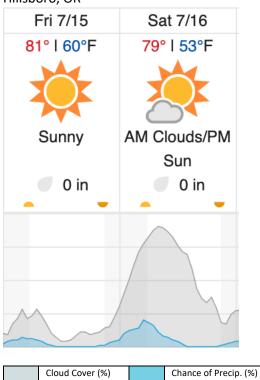
D16 WREF P2 (Wind River Experimental Forest Priority 2)

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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																			

Flown: 100% (21/21) Green: 100% (21/21) Yellow: 0% (0/21) Red: 0% (0/21)

Weather Forecast

Hillsboro, OR



source: wunderground.com

Flight Collection Plan for July 14, 2022

- Finished extraction and QAQC of today's flight
- Preparations for transit to Alaska

Crew: Mike, Mitch