



## Payload 1 Daily Flight Report



**Date:** 2023-07-01

**Flight Campaign ID:** P1C1

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

**Aircraft:** N331AR

**Domain:** 16 (Pacific Northwest)

**Sites Flown:** MCRA (McRae Creek)

**Days left in Domain:** TBD

**Report Author:** Mike

**Lidar Operators:** Mike

**Spectrometer Operators:** Elissa

**Pilots:** Jeff, Will

**Flight Hours:** 02:21

**Hours until maintenance:** 103.00

**GPS Instruments:** 07 - FBO\_KHIO, U-P385

### Summary

We collected the D16 aquatic site McRae Creek under clear skies today. This completes D16 collections with full coverage of all sites under green conditions.

### Concerns

- The waveform digitizer was not functional today. Waveform pulses were not seen during the first air-test, so the digitizer was restarted. It seemed functional after pulses were seen on the 2<sup>nd</sup> air-test, but no pulses were seen on the first survey line. Power was cycled twice and software was refreshed as well. The digitizer would connect to the software but would not acquire data. No waveform was collected for today's flight.
- During the loiter for the waveform troubleshooting, a NIS framegrabber error occurred. Cycling switches 5 and 6 resolved the issue.

### Comments

- Because collections have been completed 7 days ahead of schedule, the team is looking at the next logistically feasible step.
- Abe arrives today to replace Mike.

### Daily Coverage

Estimated Cloud Cover Key

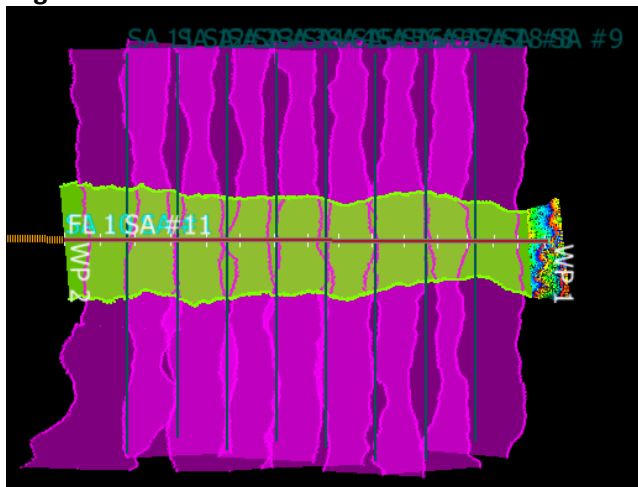
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D16|MCRA

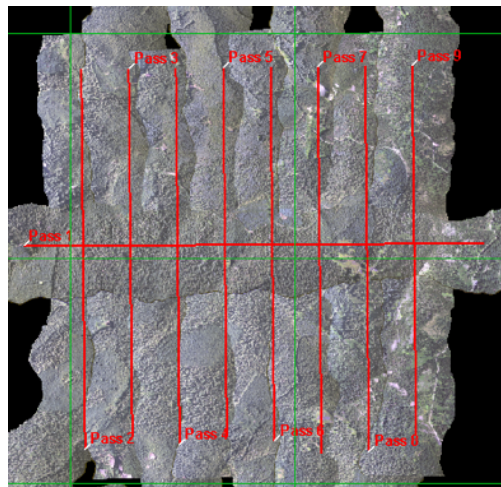
Line #	2	3	4	5	6	7	8	9
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover								

Total number of lines flown: 8

## Flight Screenshots

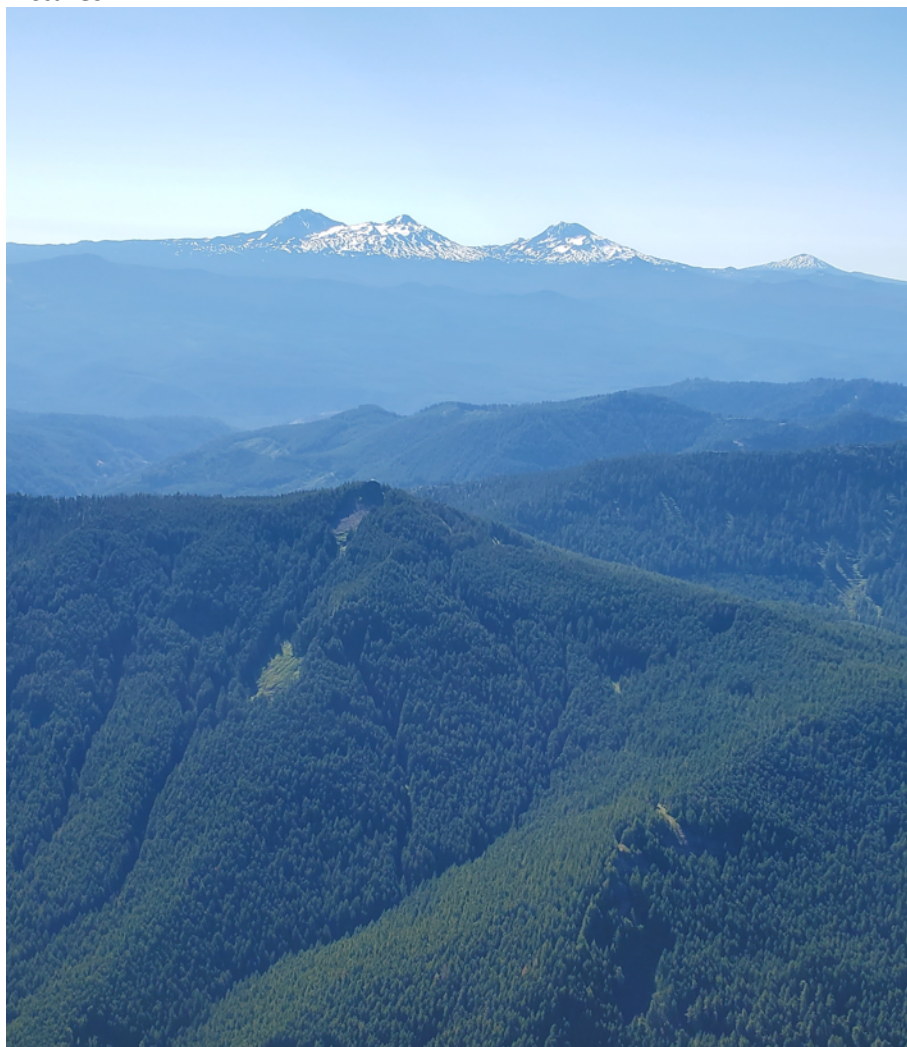


Lidar



NIS

## Pictures



Three Sisters sitting under sunny skies.

## 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 )

1
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Flown: 100% (1/1)

Green: 100% (1/1)

Yellow: 0% (0/1)

Red: 0% (0/1)

### 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: 100% (57/57)

Yellow: 0% (0/57)

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																			

Flown: 100% (21/21)

Green: 100% (21/21)

Yellow: 0% (0/21)

Red: 0% (0/21)

## Flight Collection Plan for July 2-4 2023

TBD