

### Payload 1 Daily Flight Report



Date: 2023-06-24

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)

Days left in Domain: 14

Report Author: Elissa

**Lidar Operators**: Elissa **Flight Hours**: 04:01

Spectrometer Operators: Mike Hours until maintenance: 115.80

**Pilots**: Vince, Cullen **GPS Instruments**: 07 - FBO\_KHIO, AOP\_WREF, U-P429

### Summary

We had a late start this morning while the NIS finished cooling, but nevertheless started the deployment off strong with a full flight at Wind River Experimental Forest (WREF). A couple of small cumulus clouds appeared and disappeared around the flight box, but with some creative trajectory decisions 25 priority lines were flown in green conditions.

#### Concerns

The NIS framegrabber error occurred again during flight, and was resolved by power cycling the FPIE switch.

### Comments

- Pilot Will arrived in the domain this afternoon, replacing Cullen.
- GPS\_07 is logging at KHIO but we are currently experiencing issues connecting remotely (troubleshooting to continue tomorrow).
- Due to logistical delays the Hotel Kit is being set up this afternoon; RAID\_09 will be formatted and used for the extraction of today's flight.

### **Daily Coverage**

### **Estimated Cloud Cover Key**

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

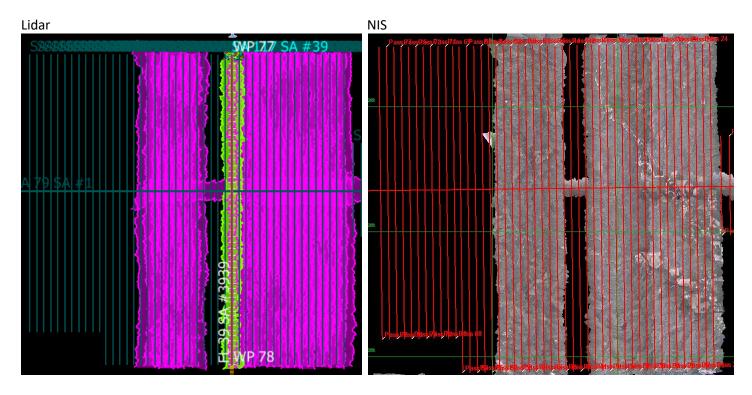
#### D16|WREF P1

Line #	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	44	45	46
Lidar	<b>✓</b>	<b>\</b>	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	<b>\</b>	✓	✓	<b>\</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	✓	✓	✓
Spectrometer	<b>✓</b>	<b>\</b>	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	<b>\</b>	✓	✓	<b>\</b>	✓	<b>√</b>	<b>√</b>	✓	✓	<b>√</b>	<b>√</b>
Camera	<b>√</b>	<b>√</b>	<b>√</b>	✓	✓	<b>√</b>														
Cloud Cover																				

Line #	47	48	49	50	51
Lidar	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>
Spectrometer	✓	✓	✓	✓	<b>√</b>
Camera	✓	✓	✓	✓	<b>√</b>
Cloud Cover					

Total number of lines flown: 25

# Flight Screenshots



# **Pictures**



Small and transient cumulus clouds near the WREF flight box.



Carson, WA and Mt Hood south of the WREF site.

# **Cumulative Domain Coverage**

# D16 | ABBY (Abby Road)

Ī	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
ĺ	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 | N16A (D16 Nominal Runway)

1

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

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

			٠ .				, ,												
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: 46% (26/57) Green: 46% (26/57) Yellow: 0% (0/57) Red: 0% (0/57)

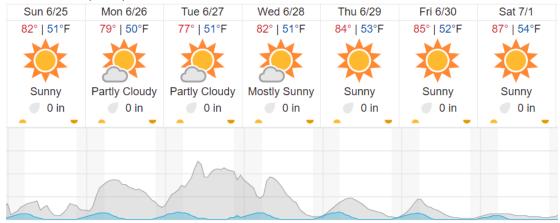
### D16 | WREF P2 (Wind River Experimental Forest Priority 2)

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

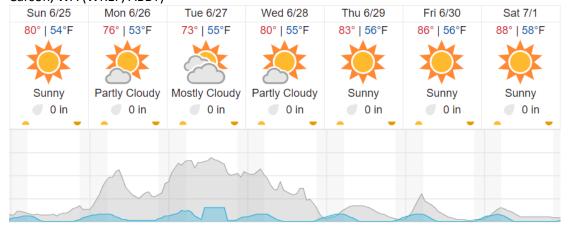
Flown: 0% (0/21) Green: 0% (0/21) Yellow: 0% (0/21) Red: 0% (0/21)

#### **Weather Forecast**

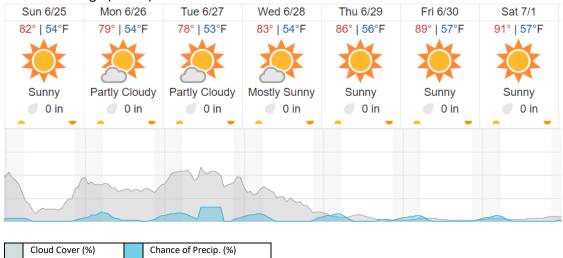
### Hillsboro, OR (KHIO)



## Carson, WA (WREF, ABBY)



### McKenzie Bridge (MCRA)



source: wunderground.com

# Flight Collection Plan for 25 June 2023

Flyority 1

Collection Area: Wind River Experimental Forest (WREF) P1 Flight Plan Name: D16\_WREF\_C1\_P1\_P2\_v3\_PRM.xml

On-Station Time: 1630 UTC / 0930 L

Flyority 2

Collection Area: Abby Road (ABBY)

Flight Plan Name: D16\_ABBY\_R2\_P1\_v2\_PRM.xml

On-Station Time: 1630 UTC / 0930 L

Flyority 3

Collection Area: Wind River Experimental Forest (WREF) P2 Flight Plan Name: D16\_WREF\_C1\_P1\_P2\_v3\_PRM.xml

On-Station Time: 1630 UTC / 0930 L

Flyority 4

Collection Area: McRae Creek (MCRA)

Flight Plan Name: D16\_MCRA\_A2\_P1\_ v2\_PRM.xml

On-Station Time: 1630 UTC / 0930 L

Crew: Mike (Lidar), Elissa (NIS)