

## Payload 1 Daily Flight Report



Date: 2023-06-29

Flight Campaign ID: P1C1

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

Aircraft: N331AR

**Domain**: 16 (Pacific Northwest)

Sites Flown: ABBY (Abby Road), N16A (D16 Nominal Runway)

Days left in Domain: 9

Report Author: Mike

**Lidar Operators**: Mike **Flight Hours**: 03:09

Spectrometer Operators: Elissa Hours until maintenance: 105.47

**Pilots**: Jeff, Will **GPS Instruments**: 07 - FBO\_KHIO, AOP\_ABBY

#### **Summary**

Another completely sunny day got the crew and plane in the air again today. The priority 2 box, ABBY, was completed in green conditions. Additionally, the Nominal Runway survey was also completed.

#### **Concerns**

None

#### **Comments**

- -Extraction for this flight is on pause until some backup RAIDs can be cleared to use by HQ or we acquire fresh ones.
- -Matt is shipping out additional new RAIDs for the upcoming jaunt to D19 and if needed here.
- -P1C1\_RAID\_09 was shipped today.

### **Daily Coverage**

#### **Estimated Cloud Cover Key**

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

## D16 ABBY

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

Line #	22	23
Lidar	✓	✓
Spectrometer	<b>√</b>	<b>√</b>
Camera	✓	✓
Cloud Cover		

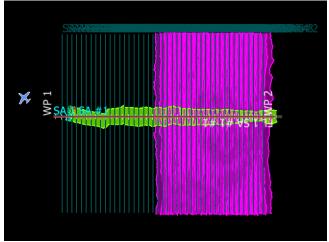
Total number of lines flown: 22

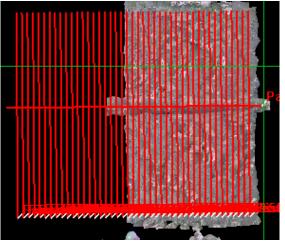
# D16|N16A

Line #	1	2
Lidar	✓	✓
Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover		

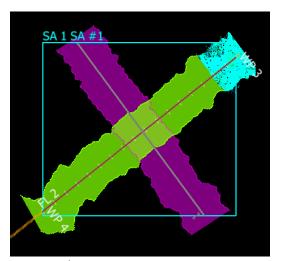
Total number of lines flown: 2

**Flight Screenshots** 



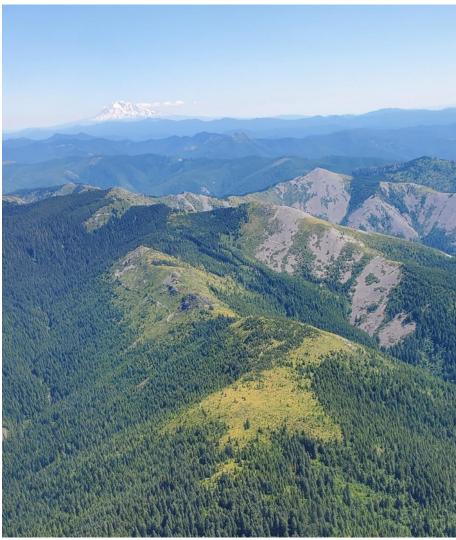


ABBY – Lidar ABBY – NIS



N16A - Lidar

### **Pictures**



Mountains of the eastern portion of the ABBY flight box with Mt. Adams in the background.

# **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	თ	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: 100% (1/1) Green: 100% (1/1) Yellow: 0% (0/1) Red: 0% (0/1)

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)

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

78

Flown: 10% (2/21) Green: 10% (2/21) Yellow: 0% (0/21) Red: 0% (0/21)

# **Weather Forecast**

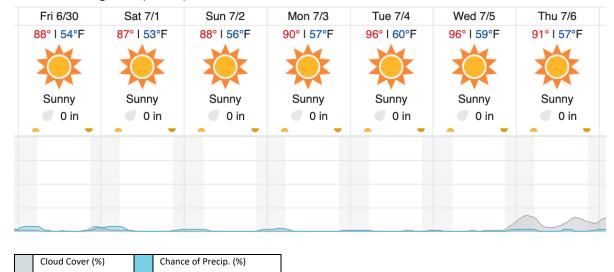
## Hillsboro, OR (KHIO)

Fri 6/30	Sat 7/1	Sun 7/2	Mon 7/3	Tue 7/4	Wed 7/5	Thu 7/6
84° I 48°F	83° I 50°F	84° I 54°F	91° I 58°F	97° I 61°F	97° I 58°F	93° I 56°F
Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny
<b>0</b> in	<b>0</b> in	0 in	<b>0</b> in	<b>0</b> in	0 in	0 in
_		_		_	_	_

# Carson, WA (WREF, ABBY)

Fri 6/30	Sat 7/1	Sun 7/2	Mon 7/3	Tue 7/4	Wed 7/5	Thu 7/6
84° I 54°F	81° I 54°F	85° I 57°F	91° I 60°F	95° I 63°F	96° I 62°F	93° I 61°F
		201		201		
Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Mostly Sunny
0 in	<b>0</b> in					
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## McKenzie Bridge, OR (MCRA)



source: wunderground.com

## Flight Collection Plan for 30 June 2023

Flyority 1

Collection Area: Wind River Experimental Forest (WREF) P2, *lines 58 – 76* 

Flight Plan Name: D16\_WREF\_C1\_P1\_P2\_v3\_PRM.xml

On-Station Time: 1630 UTC / 0930 L

Flyority 2

Collection Area: McRae Creek (MCRA)

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

On-Station Time: 1630 UTC / 0930 L

Crew: Elissa (Lidar), Mike (NIS)