



Payload 1 Daily Flight Report



Date: 2022-07-10

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 16 (Pacific Northwest)

Sites Flown: N16A (D16 Nominal Runway), MCRA (McRae Creek)

Days left in Domain: 5

Report Author: Abe

Lidar Operators: Abe

Spectrometer Operators: Mike

Pilots: Robbie, Nick

Flight Hours: 01:44

Hours until maintenance: 119.52

GPS Instruments: 04 - FBO - KHIO, U-P385

Summary

With a promising forecast and dwindling time left in this domain, the crew launched in hopes of collecting the McRae Creek site. On arrival there were building low cumulus clouds below our flight altitude. No collections could be made at the site. On the return back to Hillsboro the nominal runway flight was conducted over the very busy airport.

Concerns

-A replacement GPU was shipped yesterday from the Boulder hangar to replace our degraded unit. It should arrive here tomorrow.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D16|N16A

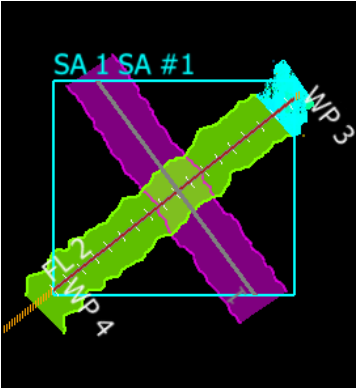
Line #	1	2
Lidar	✓	✓
Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover		

Total number of lines flown: 2

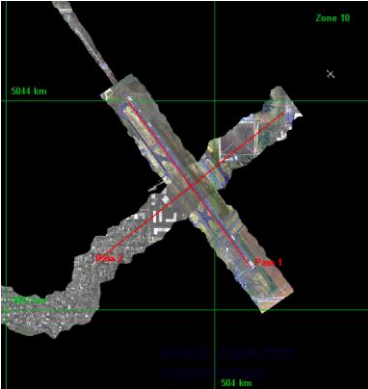
Flight Screenshots

N16A

Lidar



NIS



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

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			

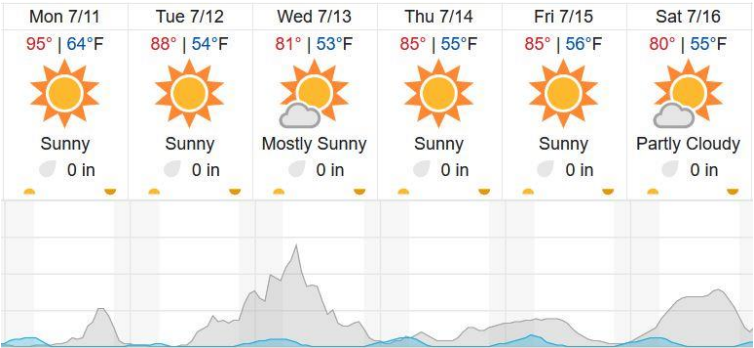
Flown: 0% (0/57)
Green: 0% (0/57)
Yellow: 0% (0/57)
Red: 0% (0/57)

D16| WREF_P2 (Wind River Experimental Forest Priority 2)

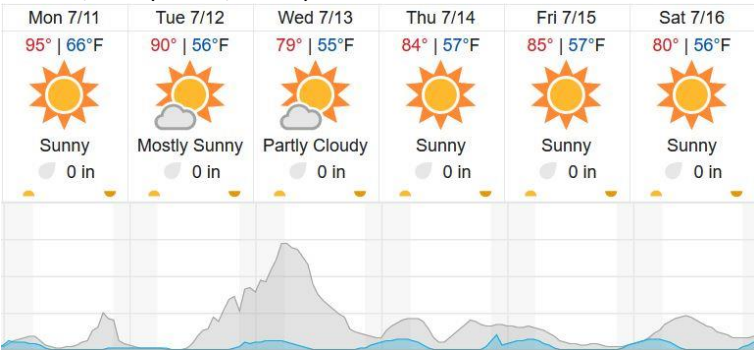
58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
78																			

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

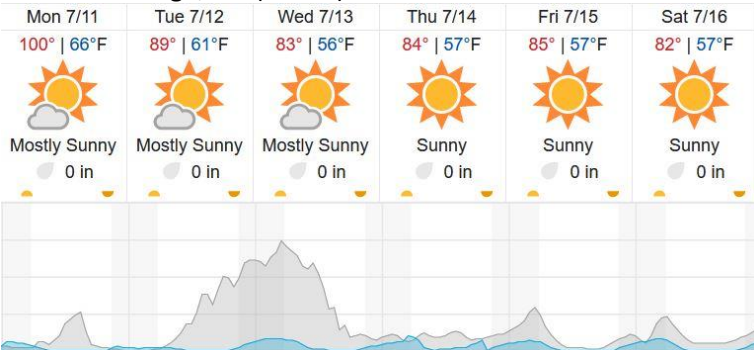
Weather Forecast
Hillsboro, OR



Carson, WA (WREF, ABBY)



Mckenzie Bridge, OR (MCRA)



	Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for July 11, 2022

Flyority 1

Collection Area: Abby Road (ABBY)

Flight Plan Name: D16_ABBY_R2_P1_v2_PRM.xml

On-station Time: 1640 UTC / 0940 L

Flyority 2

Collection Area: Wind River Experimental Forest (WREF) – Priority 1 Flight Box

Flight Plan Name: D16_WREF_C1_P1_P2_v3_PRM.xml

On-station Time: 1640 UTC / 0940 L

Flyority 3

Collection Area: McRae Creek (MCRA)

Flight Plan Name: D16_MCRA_A2_P1_v2_PRM.xml

On-station Time: 1640 UTC / 0940 L

Flyority 4

Collection Area: Wind River Experimental Forest (WREF) – Priority 2 Flight Box

Flight Plan Name: D16_WREF_C1_P1_P2_v3_PRM.xml

On-station Time: 1640 UTC / 0940 L

Crew: Mike (Lidar), Abe (NIS)