

Payload 2 Daily Flight Report



Date: 2025-07-02

Flight Campaign ID: P2C1

Airport, FBO ID, City: Deadhorse Airport (PASC) - Deadhorse, AK; Wiley Post-Will Rogers Memorial (PABR) - Barrow, AK

Aircraft: N615AR

Domain: 18 (Tundra)

Sites Flown: BARR_P1 (Barrow Environmental Observatory Priority 1), BARR_P2 (Barrow Environmental Observatory

Priority 2)

Days left in Domain: 34

Report Author: Mike

Lidar Operators: Mike Flight Hours: 04:20, 02:15 = 06:35

Spectrometer Operators: Alyssa Hours until maintenance: 103.1

Pilots: Vince, Manning GPS Instruments: C-BRW1, C-EDOC

Summary

With a stroke of good fortune, we were able to collect our priority 1 site, BARR, in green conditions on the first possible day of collections in D18. Fog at Deadhorse airport in the morning eventually broke up and we were able to complete two flights over Barrow before the 35-degree solar angle expired. The entire priority 1 box was completed and a portion of the priority 2 box was flown.

Comments

- -The North Slope Borough Search and Rescue, whom we have been coordinating with for a long time but had not had the chance meet yet, provided their GPU to us and made it possible to continue collecting without shutting systems down. Many thanks to them.
- -Data collection spans two UTC days 07/02 and 07/03, a note for processing.
- -The last lidar line (cross-strip) indicated a corrupted file at the end of the line; it was reflown.
- -Auto-sequence of navigation lines continues to stop working intermittently, note for operators.
- -Extraction code incurred a bug for the NIS lines collected on 07/03 UTC.
- -Elissa arrived this evening!

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D18|BARR_P1*

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

Line #	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	√													
Cloud Cover														

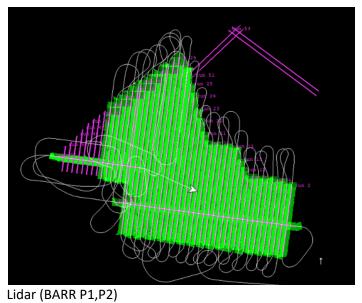
Total number of lines flown: 34

D18|BARR_P2*

Line #	37	38	39	40	41	42
Lidar	✓	✓	✓	✓	✓	/
Spectrometer	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

Total number of lines flown: 6

Flight Screenshots





Pictures



BARR tower hut can just barely be made out in the middle of the tundra above and slightly right of the icy lake. Point Barrow, the northern most point of the United States can be seen in the distance (top left) surrounded by sea ice.

The North Slope Borough Search and Rescue graciously agreed to lend us their GPU as there is no FBO service at PABR.





Posing with the NSB SAR's Sikorsky VH-92 Patriot helicopter during the fuel stop.



Another view of Point Barrow, the northernmost point of the U.S, with breaking up sea ice.

Cumulative Domain Coverage

D18 BARR_P1 (Barrow Environmental Observatory 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					

Flown: 100% (35/35)* Green: 100% (35/35) Yellow: 0% (0/35) Red: 0% (0/35)

^{*} Flown within 35deg solar angle

D18 BARR_P2 (Barrow Environmental Observatory Priority 2)

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36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Flown: 47% (7/15)* Green: 47% (7/15) Yellow: 0% (0/15) Red: 0% (0/15)

* Flown within 35deg solar angle

D18 | BARR_P3 ()

51	52	53	54

Flown: 0% (0/4) Green: 0% (0/4) Yellow: 0% (0/4) Red: 0% (0/4)

* Flown within 35deg solar angle

D18 OKSR (Oksrukuyik Creek)

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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																			

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

* Flown within 35deg solar angle

D18 TOOL (Toolik)

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												

Flown: 0% (0/48) Green: 0% (0/48) Yellow: 0% (0/48) Red: 0% (0/48)

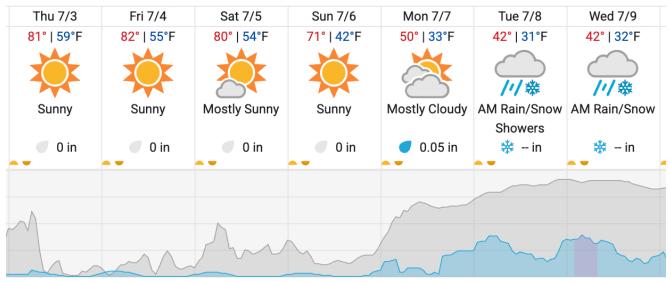
* Flown within 35deg solar angle

Weather Forecast

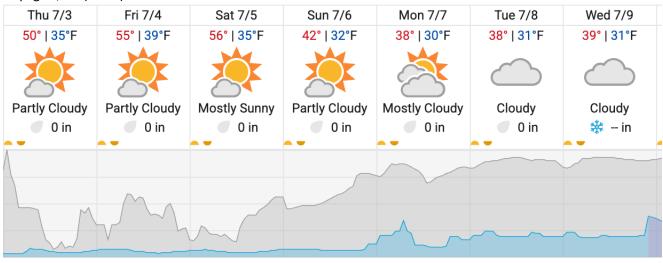
Prudhoe Bay, AK (FBO-PASC)

Thu 7/3	Fri 7/4	Sat 7/5	Sun 7/6	Mon 7/7	Tue 7/8	Wed 7/9
56° 39°F	57° 36°F	50° 35°F	45° 33°F	37° 29°F	35° 30°F	36° 31°F
Sunny 0 in	Sunny 0 in	Partly Cloudy 0 in	Partly Cloudy 0 in	Mostly Cloudy 0 in	Cloudy 0 in	Cloudy 0 in
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Toolik Lake, AK (TOOL, OKSR)



Utqiagvik, AK (BARR)





Flight Collection Plan for July 03 2025

Flyority 1

Collection Area: Toolik (TOOL)

Flight Plan Name: D18_TOOL_C1_P1_v4_VQ780 On-Station Time: (35 degrees): 1840 UTC / 1040 L

Flyority 2

Collection Area: Barrow Environmental Observatory (BARR) - Priority 2 Flight Box (lines 43-50)

Flight Plan Name: D18_BARR_R1_P2_v5_Q780.pln On-Station Time: (35 degrees): 1930 UTC / 1130 L

Flyority 3

Collection Area: Barrow Environmental Observatory (BARR) - Priority 3 Flight Box

Flight Plan Name: D18_BARR_R1_P3_v5_Q780.pln On-Station Time: (35 degrees): 1930 UTC / 1130 L

Flyority 4

Collection Area: Oksrukuyik Creek (OKSR)

Flight Plan Name: D18_OKSR_A1_P1_v3_VQ780 On-Station Time: (35 degrees): 1840 UTC / 1040 L