



Payload 2 Daily Flight Report



Date: 2025-07-03

Flight Campaign ID: P2C1

Airport, FBO ID, City: Deadhorse Airport (PASC) - Deadhorse, AK

Aircraft: N615AR

Domain: 18 (Tundra)

Sites Flown: TOOL (Toolik)

Days left in Domain: 33

Report Author: Alyssa

Lidar Operators: Alyssa

Flight Hours: 04:01

Spectrometer Operators: Elissa

Hours until maintenance: 95.82

Pilots: Vince, Manning

GPS Instruments: C-EDOC, U-TLK2

Summary

Another day of nice weather allowed us to complete about 1/3rd of the TOOL box. Tomorrow looks promising as well. There were some issues with the flight plans in drop box but those have hopefully been resolved. We will try to meet with Travis from Reigl to receive instructions on how to fire the camera manually along the lines if any more issues occur that result in lidar and camera not firing.

Concerns

- Lidar flight plan files in drop box did not include the NRSS line extensions, so John M. has reuploaded the correct files and deleted the old ones.
- KML file for the NIS had line numbers reversed, also fixed by John M.

Comments

- BARR has been determined to not be peak-green enough yet, so the plan is to refly the site in a few weeks, if we have passable weather.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

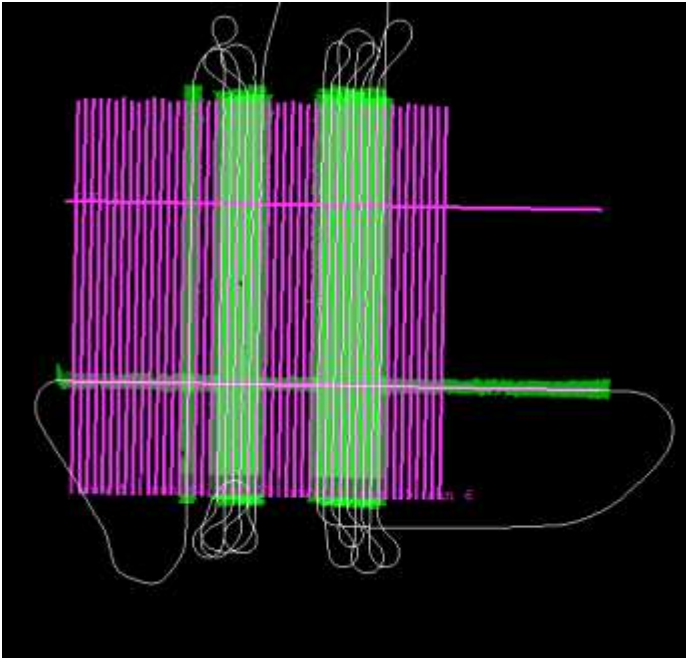
D18|TOOL

Line #	1	11	12	13	14	15	16	17	18	19	27	28	29	30	31	32
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																

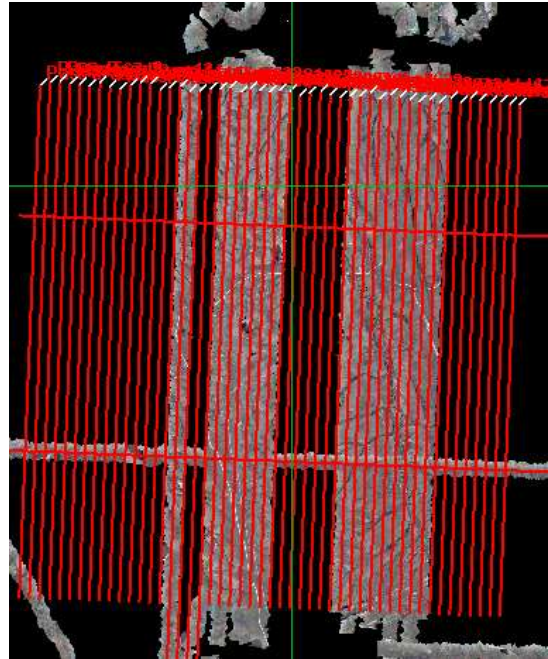
Total number of lines flown: 16

Flight Screenshots

Lidar



NIS



Pictures

Good day over the Brooks



Some fine gentlemen in downtown Deadhorse



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)

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

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

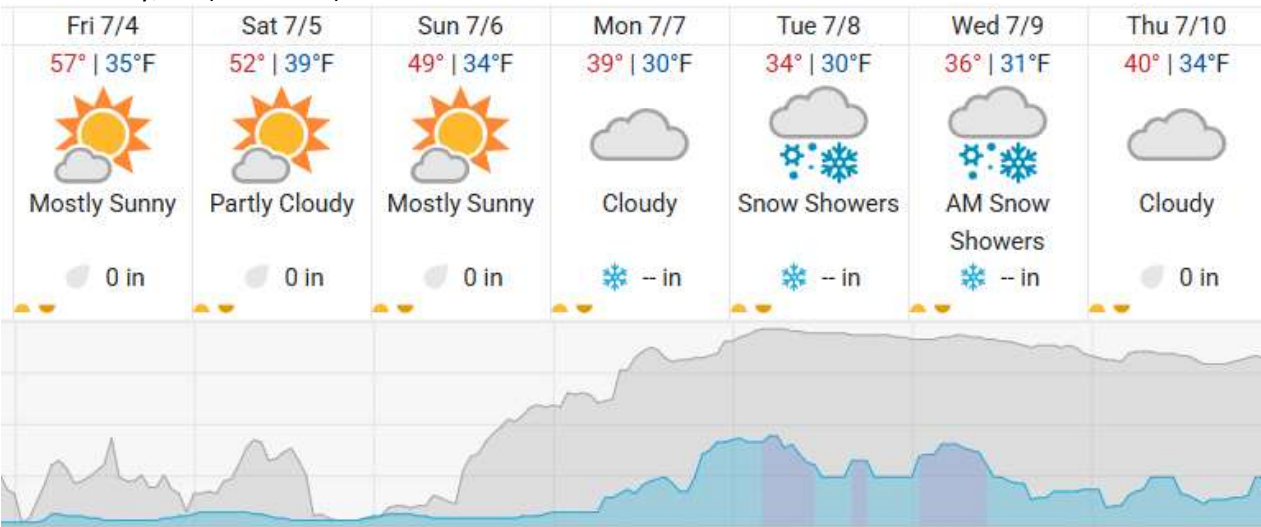
D18|TOOL (Toolik)

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												

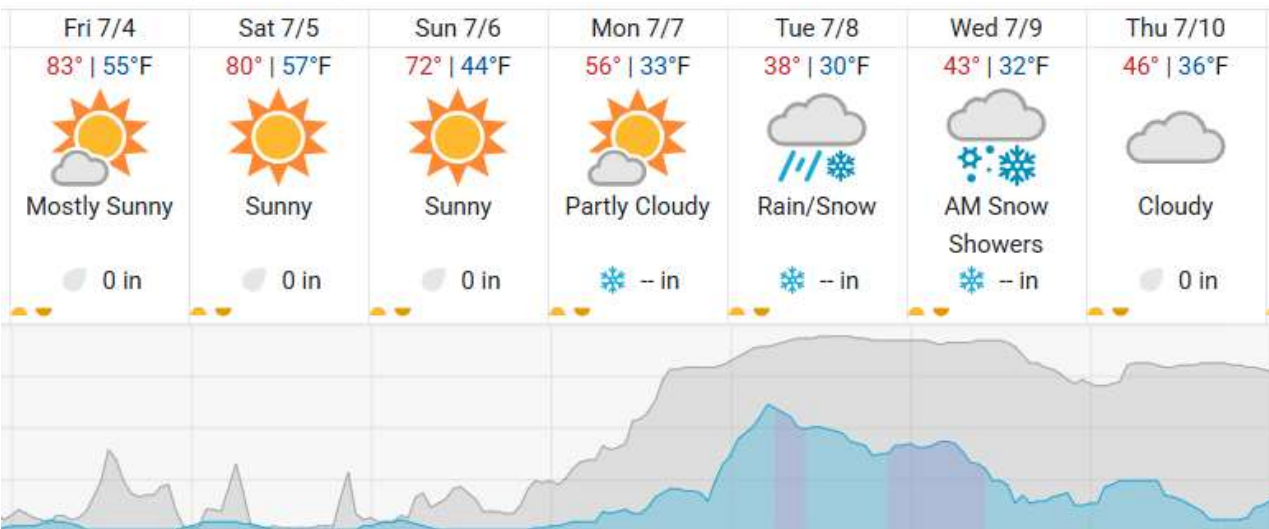
Flown: 33% (16/48)
Green: 31% (15/48)
Yellow: 2% (1/48)
Red: 0% (0/48)
* Flown within 35deg solar angle

Weather Forecast

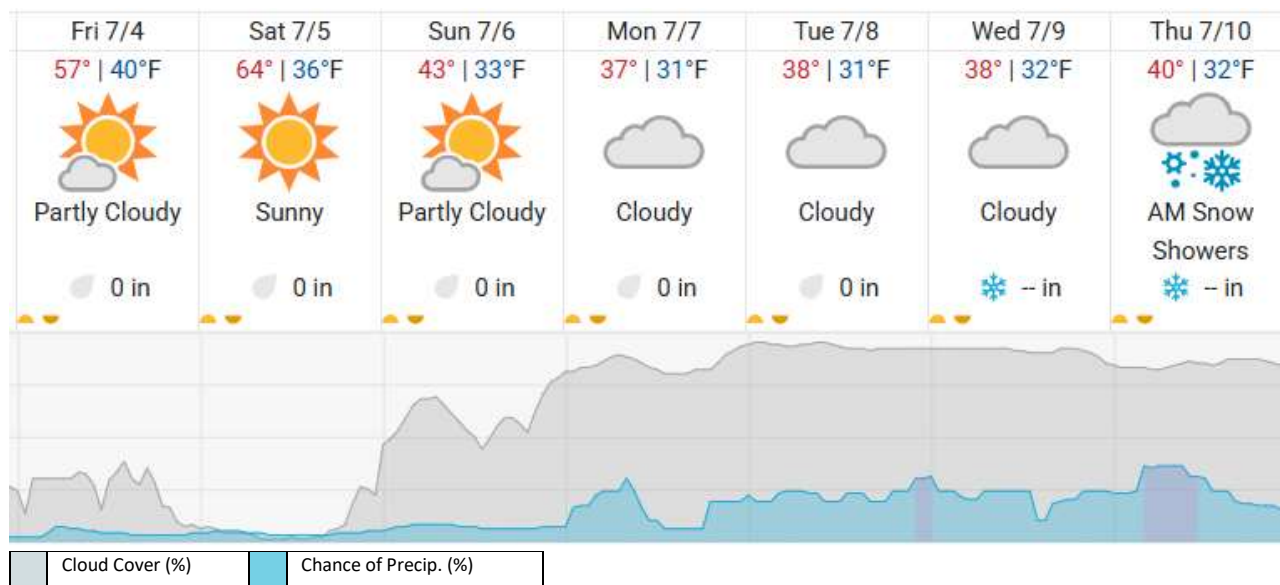
Prudhoe Bay, AK (FBO-PASC)



Toolik Lake, AK (TOOL, OKSR)



Utqiagvik, AK (BARR)



source: wunderground.com

Flight Collection Plan for July 4th 2025

Flyority 1

Collection Area: Toolik (TOOL) Lines 3-10, 20-26, 33-51

Flight Plan Name: D18_TOOL_C1_P1_v4_VQ780

On-Station Time: (35 degrees): 1840 UTC / 1040 L

Flyority 2

Collection Area: Oksrukuyik Creek (OKSR)

Flight Plan Name: D18_OKSR_A1_P1_v3_VQ780

On-Station Time: (35 degrees): 1840 UTC / 1040 L

Flyority 3

Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box

Flight Plan Name: D18_BARR_R1_P1_P2_P3_v6_VQ780

On-Station Time: (35 degrees): 1930 UTC / 1130 L

Flyority 4

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

Flight Plan Name: D18_BARR_R1_P2_v5_Q780.pln

On-Station Time: (35 degrees): 1930 UTC / 1130 L

Flyority 5

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