



Date: 2025-07-05

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: 31

Report Author: Elissa

**Lidar Operators**: Elissa **Flight Hours**: 04:23

**Spectrometer Operators**: Alyssa **Hours until maintenance**: 87.17 **Pilots**: Vince, Manning **GPS Instruments**: C-EDOC, U-TLK2

#### Summary

The remaining 23 lines of the Toolik site were collected in green conditions. Camera was not operated.

#### Concerns

- Unable to format the camera disk from Disk Set 7. The inability to either complete or interrupt the formatting attempt forced an improper shutdown of the IX Controller. The camera disk from Disk Set 4 was used with no attempt made at formatting, but rather manual deletion of data.
- Erratic current and voltage readings and flashing LEDs occurred on the BSE during one of today's several reboots.
- Despite further verifying camera settings, reloading the previous RiAcquire project file, and attempting manual camera operation, the same camera communication error repeatedly occurred.

## **Comments**

After today's flight a TeamViewer session was held with Travis from Riegl to investigate the camera issue. Primary suspect is the Samsung SSD drives which are known by Riegl to be prone to failure. The IX Controller computer itself could also be problematic, possibly resulting from bad shut downs related either to camera disk failed formatting or interruptions in power from the BSE. It was confirmed that at the moment the camera is not operational. Incoming crew to D18 will hand carry higher quality SSDs, and a spare IX Controller just in case. In the meantime collections will be continued without the camera.

# **Daily Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

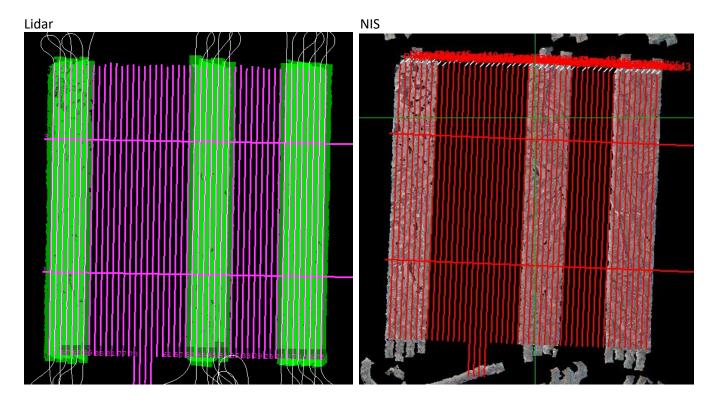
D18|TOOL

Line #	3	4	5	6	7	8	9	10	20	21	22	23	24	25	26	45	46	47	48	49
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>	<b>/</b>	<b>✓</b>	<b>\</b>	<b>✓</b>	<b>\</b>
Spectrometer	<b>√</b>	✓	✓	✓	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	<b>\</b>	<b>√</b>	✓	✓	✓	<b>✓</b>
Camera																				
Cloud Cover																				

Line #	50	51
Lidar	<b>✓</b>	<b>✓</b>
Spectrometer	✓	✓
Camera		
Cloud Cover		

Total number of lines flown: 22

# Flight Screenshots



## **Pictures**



Cumulus and light haze over the Brooks Range did not impinge on the site during our flight.

## **Cumulative Domain Coverage**

D18 BARR\_P1 (Barrow Environmental Observatory Priority 1)

	2														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)

D18 BARR\_P2 (Barrow Environmental Observatory Priority 2)

			١											
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)

<sup>\*</sup> Flown within 35deg solar angle

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## D18 | BARR\_P3 ()

51 52 53 54

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

## D18 | OKSR (Oksrukuyik Creek )

	- 1		•			,		- ,												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	21				•	•			•		•		•	•			•			

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

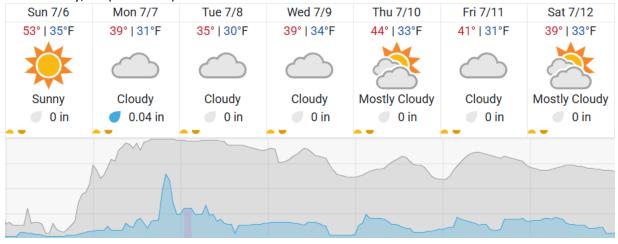
## D18 TOOL (Toolik)

		, -	- ,																
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	49	50	51									

Flown: 98% (50/51) Green: 75% (38/51) Yellow: 16% (8/51) Red: 8% (4/51)

## **Weather Forecast**

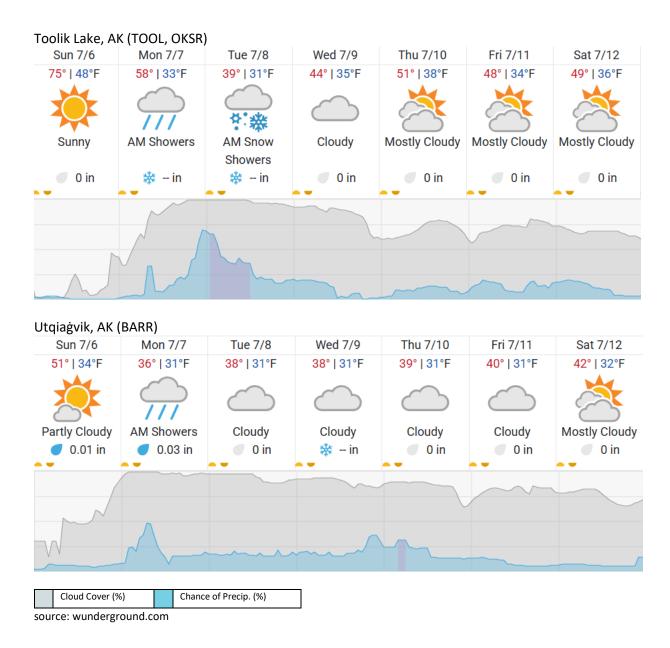
# Prudhoe Bay, AK (FBO-PASC)



<sup>\*</sup> Flown within 35deg solar angle

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# Flight Collection Plan for 6 July 2025

## Flyority 1

Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box (once in peak greenness)

Flight Plan Name: D18\_BARR\_R1\_P1\_P2\_P3\_v6\_VQ780 On-Station Time: (35 degrees): 1930 UTC / 1130 L

# Flyority 2

Collection Area: Toolik (TOOL) Lines 27, 34-44 (only if green)

Flight Plan Name: D18\_TOOL\_C1\_P1\_v4\_VQ780 On-Station Time: (35 degrees): 1840 UTC / 1040 L

#### Flyority 3

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 4

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 5

Collection Area: Oksrukuyik Creek (OKSR)

Flight Plan Name: D18\_OKSR\_A1\_P1\_v3\_VQ780 On-Station Time: (35 degrees): 1840 UTC / 1040 L

Crew: Alyssa (Lidar), Elissa (NIS)