



## July 22, 2019 Payload 2 Daily Flight Report



**Date:** 2019-07-22

**Flight Campaign ID:** 2019\_P2C1

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

**Domain:** 18

**Sites Flown:** N18A (D18 Nominal Runway), TOOL (Toolik )

**Days left in Domain:** 4

**Report Author:** Abe Morrison

**Flight Crew:** Abe Morrison, Michael Wussow

**Ground/GPS:** Robb Walker

**Pilots:** Stephen Brawders, Mark Solper

**Additional Personnel:**

**GPS Instruments:** 03 - FBO\_PASC, U-AB45, U-TLK2

**Flight Hours:** 03:10

**Hours until maintenance:** 49.20

### Summary

The crew was pleasantly surprised to find clear skies on the webcam this morning over Toolik Lake. With green sky conditions at hand, the crew took to flight and was able to collect 6 airshed priority lines before the low cumulus clouds moved back in. Once under "yellow" sky conditions focus was shifted back to finishing the initial collection and 2 more lines were collected before the otter ran low on fuel. Once we arrived back at Deadhorse, the nominal runway calibration flight was also flown before landing.

### Concerns

None

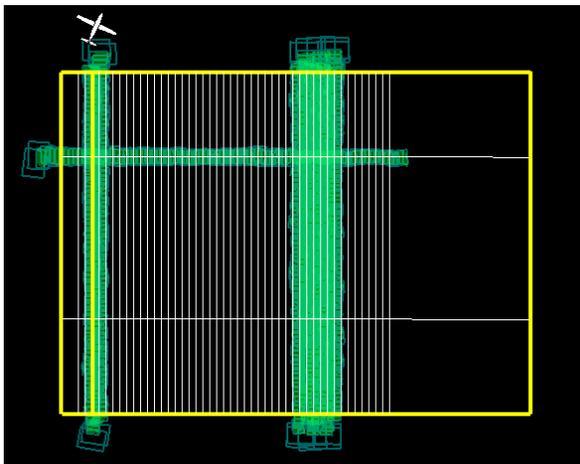
### Comments

None

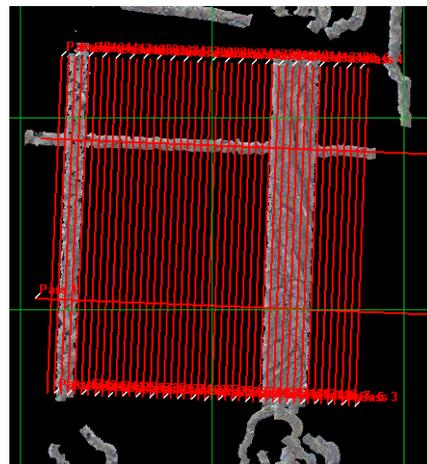
### Flight Screenshots

TOOL

LIDAR

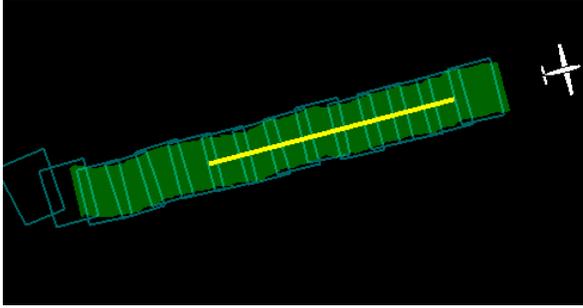


NIS

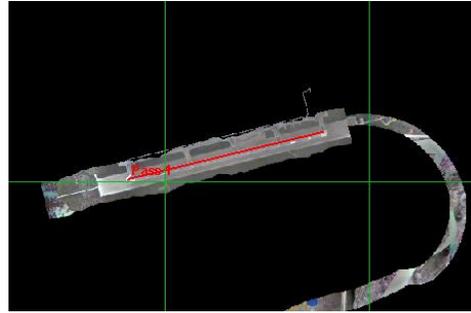


N18A

LIDAR



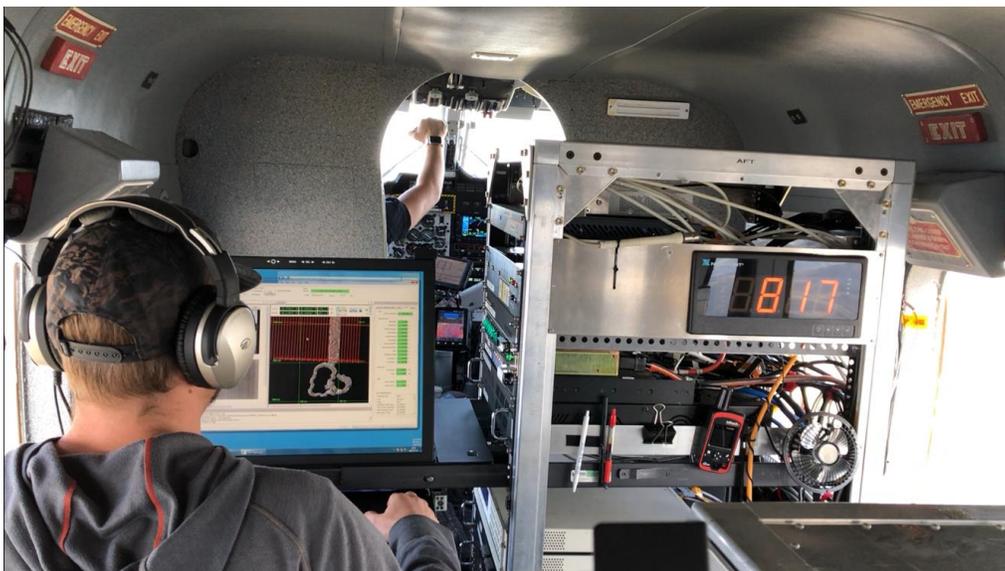
NIS



Pictures



The Brooks Range, to the south of Toolik Lake. Photo by Abe Morrison.



Michael Wussow operating the NIS over Toolik Lake. Photo by Abe Morrison.

## Daily Coverage

D18 N18A	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
Flown:	1							
D18 TOOL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	2				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	45				✓	✓	✓	NLC
	46				✓	✓	✓	NLC
Flown:	9							

## Cumulative Domain Coverage

### BARR\_P1

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: 0% (0/35)

Yellow: 100% (35/35)

Red: 0% (0/35)

### BARR\_P2

36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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Flown: 127% (19/15)

Green: 0% (0/15)

Yellow: 127% (19/15)

Red: 0% (0/15)

### N18A

1
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Flown: 100% (1/1)

Green: 0% (0/1)

Yellow: 0% (0/1)

Red: 100% (1/1)

### TOOL

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: 94% (45/48)

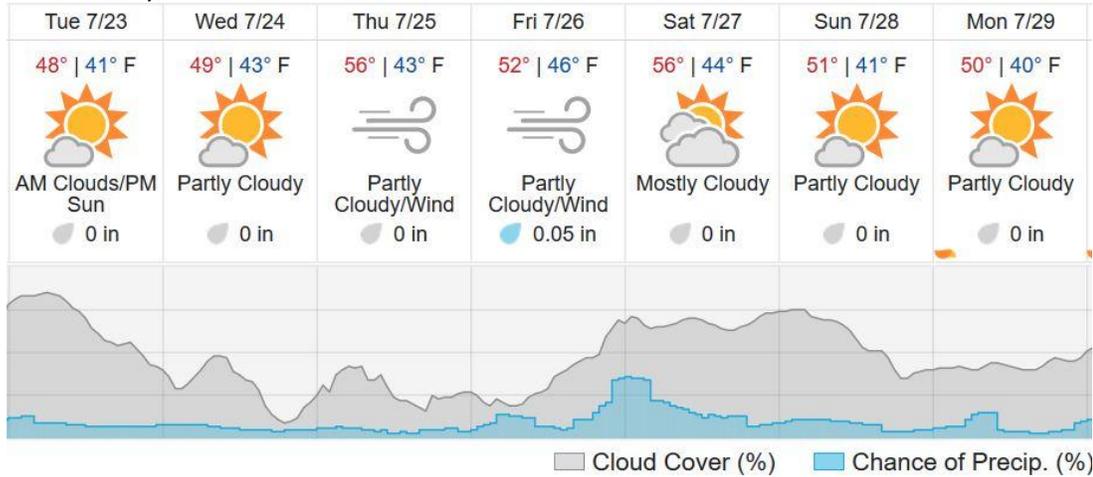
Green: 15% (7/48)

Yellow: 27% (13/48)

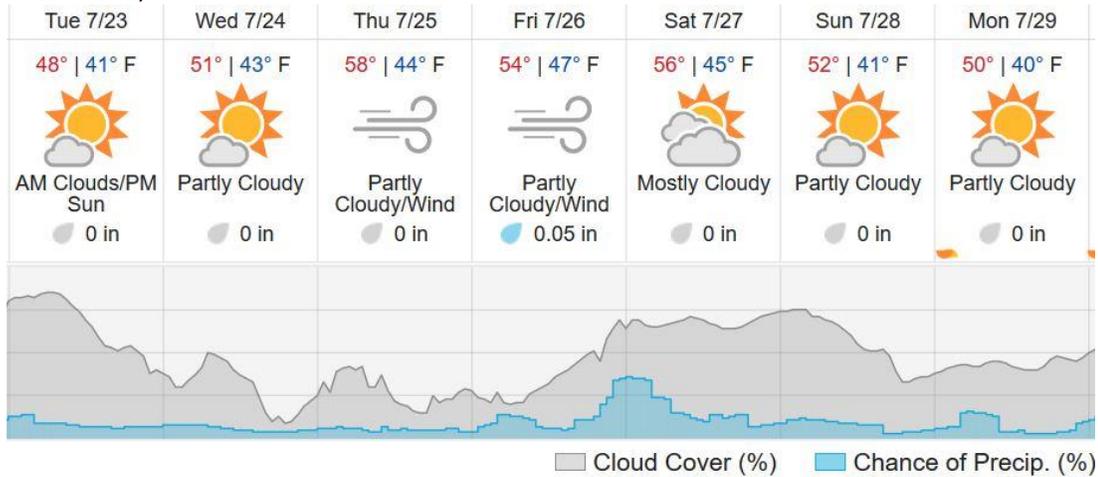
Red: 71% (34/48)

## Weather Forecast

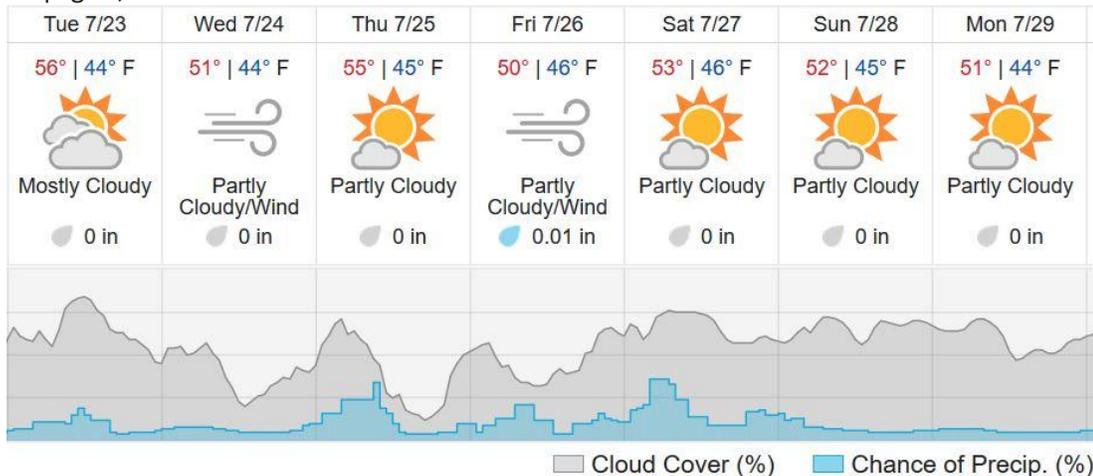
### Prudhoe Bay, AK



### Toolik Lake, AK



### Utqiagvik, AK



## **Flight Collection Plan for 23 July 2019**

### **Flyority 1:**

Collection Area: Toolik (TOOL)

Flight Plan Name: D18\_TOOL\_C1\_P1\_v1.pln

On-station Time: 1917 – 0051 UTC / 1117 – 1651 L (35° solar angle)

\*Lines 1, 47-48

### **Flyority 2:**

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

Flight Plan Name: D18\_BARR\_R1\_P1\_P2\_P3\_v4.pln

On-station Time: 1953 – 0113 UTC / 1153 – 1713 L (35° solar angle)

\*Only if Green Conditions Exist

### **Flyority 3:**

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

Flight Plan Name: D18\_BARR\_R1\_P1\_P2\_P3\_v4.pln

On-station time: 1953 – 0113 UTC / 1153 – 1713 L (35° solar angle)

\*Only if Green Conditions Exist

### **Flyority 4**

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

Flight Plan Name: D18\_BARR\_R1\_P1\_P2\_P3\_v4.pln

On-station time: 1953 – 0113 UTC / 1153 – 1713 L (35° solar angle)

\*Only if Green Conditions Exist

**Crew:** Robb Walker (Lidar), Abe Morrison (NIS), Michael Wussow (Ground)

## **Flight Collection Plan for 24 July 2019**

**Flyority 1-4:** Same as previously briefed

**Crew:** Abe Morrison (Lidar), Robb Walker (NIS)