



July 7, 2019 Payload 2 Daily Flight Report



Date: 2019-07-07

Flight Campaign ID: 2019_P2C1

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

Domain: 18

Sites Flown: TOOL (Toolik)

Days left in Domain: 19

Report Author: Cameron Chapman

Flight Crew: Cameron Chapman, Ivana Vu

Ground/GPS: Michael Wussow

Pilots: Stephen Brawders, Mark Solper

Additional Personnel:

GPS Instruments: 03 - FBO_PASC, U-AB45, U-TLK2

Flight Hours: 03:07

Hours until maintenance: 67.00

Summary

With a similar forecast for the next 10 days and the web cameras near Toolik showing slightly favorable condition, the crew decided to fly Toolik. Upon arriving at the site, cumulus clouds had already developed approximately 500 ft above our survey altitude. Given the extended forecast, the commute time and lack of fueling options, we decide to collect under "Red" conditions. We were able to collect 11 lines before departing back to Deadhorse.

Concerns

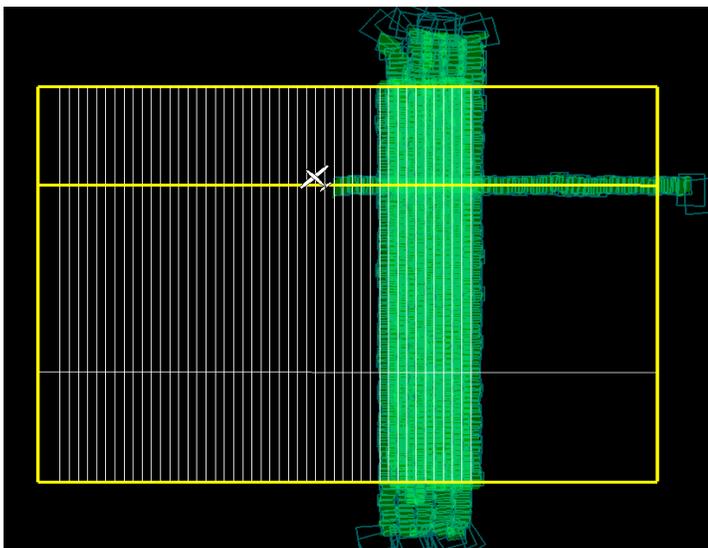
- The first HK extraction of 2019070617 data failed to run QA. We will investigate this issue and rerun the data.
- The D Drive on the HK is filling up; We'll need to clear space soon.

Comments

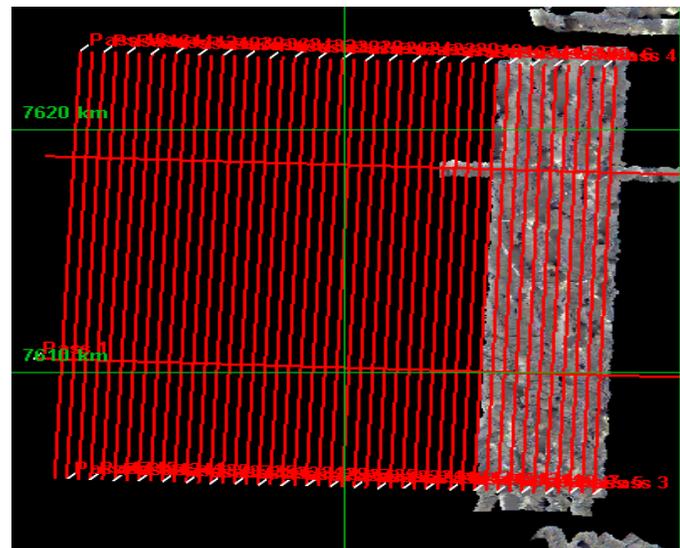
- Ivana heads down to D16 today to Join Payload 3. Thanks for the hard work Ivana!!
- Matt Devoe is scheduled to arrive this afternoon in Deadhorse.

Flight Screenshots

LIDAR



NIS



Pictures



Above: Cumulus clouds dominate the sky as the crew fly's near the Brooks Range in "Red" sky conditions
Below: A view of the Sag river in route to the TOOL site! Also pictured, the Alaskan pipeline and Dalton Highway.



Daily Coverage

D18 TOOL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
Flown:	11							

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: 31% (11/35)

Green: 0% (0/35)

Yellow: 31% (11/35)

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: 0% (0/15)

Green: 0% (0/15)

Yellow: 0% (0/15)

Red: 0% (0/15)

N18A

1

Flown: 0% (0/1)

Green: 0% (0/1)

Yellow: 0% (0/1)

Red: 0% (0/1)

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: 23% (11/48)

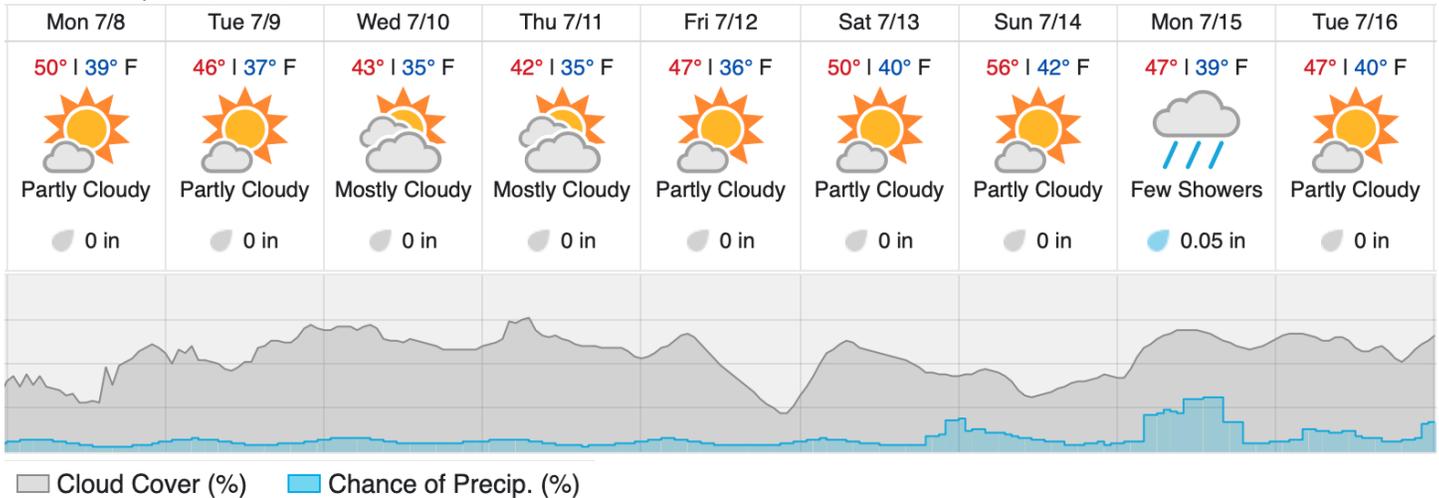
Green: 0% (0/48)

Yellow: 0% (0/48)

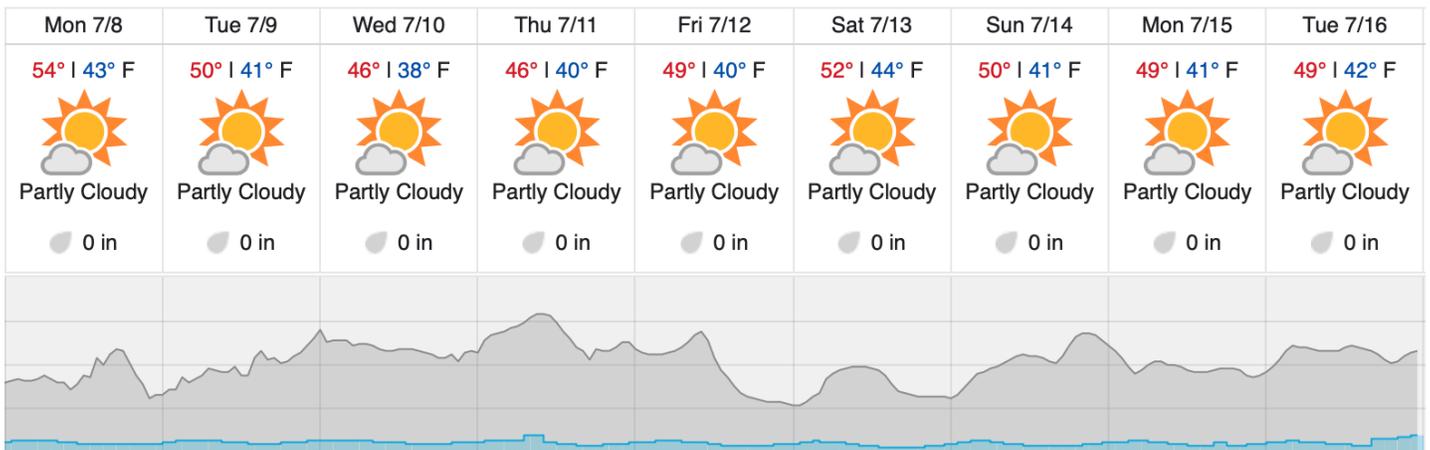
Red: 23% (11/48)

Weather Forecast

Prudhoe Bay, AK (TOOL)



Utqiagvik, AK (BARR)



Flight Collection Plan for 08 July 2019

Flyority 1:

Collection Area: Toolik (TOOL)

Flight Plan Name: D18_TOOL_C1_P1_v1.pln

On-station Time: 1840 – 0120 UTC / 1040 – 1720 L (35° solar angle)

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: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

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: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

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: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

Flyority 5

Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box – 750m AGL Initial Collect

Flight Plan Name: D18_BARR_R1_P1_v3b_760m_AGL.pln (use only if cloud heights do not permit flights at 1000m AG)

On-station time: 1930 – 0130 UTC / 1130 – 1730 L (35° solar angle)

Flyority 6

Collection Area: Nominal Runway – D18

Flight Plan Name: D18_N18A_Nominal_Runway_Test_v1.pln

On-station time: N/A

Crew: Mike Wussow (Lidar), Matt Devoe (NIS)

Flight Collection Plan for 09 July 2019

Flyority 1-6: Same as previously briefed

Crew: Matt Devoe (Lidar), (NIS) Mike Wussow