



August 10, 2018 Payload 3 Daily Flight Report



Date: 2018-08-10

Flight Campaign ID: 2018_P3C1

Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 00, 13

Sites Flown: R10C (Table Mountain Radiometric Calibration - Riegl), NIWO (Niwot Ridge Mountain Research Station)

Days left in Domain: 7

Report Author: Nick Marusich

Flight Crew: Nick Marusich, Abe Morrison, Cameron Chapman

Flight Hours: 01:59

Ground/GPS: Matt Devoe

Hours until maintenance: 122.42

Pilots: Grant Frost, Stephen Brawders

Additional Personnel:

GPS Instruments: 03 - FBO_KBDU, 05 - NIWO

Summary

Conducted 6 lines of NIWOT and free-hand vicarious calibration at KBDU. Clouds built up during the flight and closed out collection opportunities after the vicarious calibration survey.

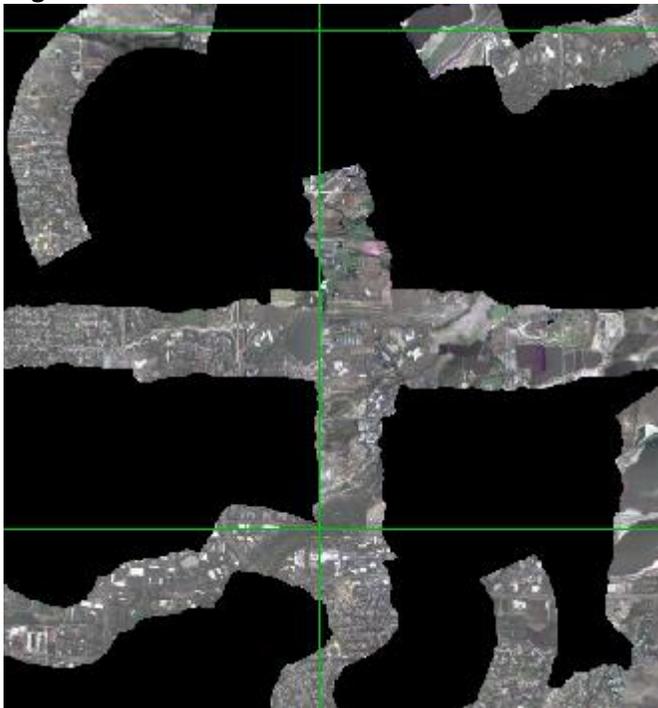
Concerns

- Lidar shut off after 6th NIWOT line, then recovered.
- Vicarious calibration was flown free-hand without a flight plan.

Comments

- Nick Marusich flew his second Riegl Lidar flight.

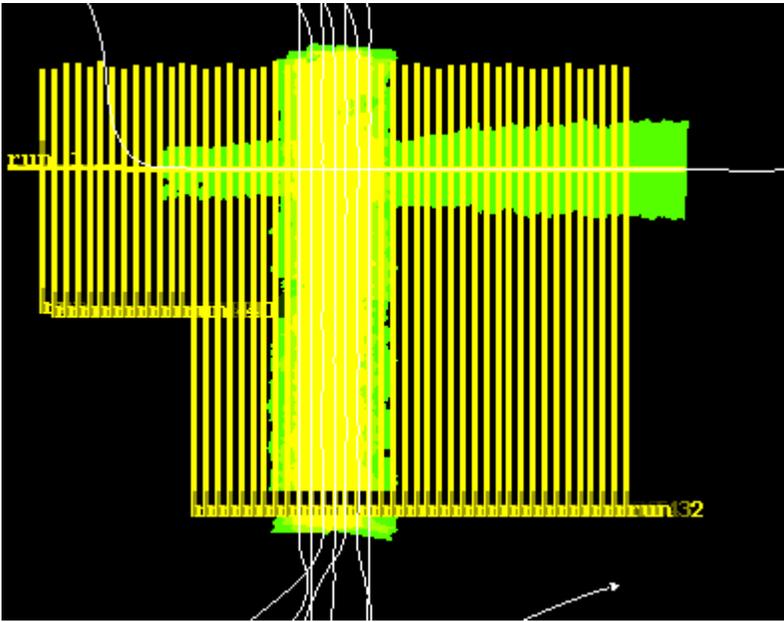
Flight Screenshots



Vicarious Calibration done free-hand



NIWOT NIS Survey



NIWOT Lidar Survey

Pictures

None.

Daily Coverage

D13 NIWO	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✗	✓	NC
	24				✓	✓	✓	NLC
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC
	27				✓	✓	✓	NLC
	28				✓	✓	✓	NLC
	29				✓	✓	✓	NLC
	30				✓	✓	✓	NLC
Flown:	8							
D00 R10C	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
Flown:	1							

Cumulative Domain Coverage

MOAB

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												

Flown: 100% (29/29)
 Green: 100% (29/29)
 Yellow: 0% (0/29)
 Red: 0% (0/29)

NIWO

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	52									

Flown: 56% (29/52)
 Green: 42% (22/52)
 Yellow: 14% (7/52)
 Red: 0% (0/52)

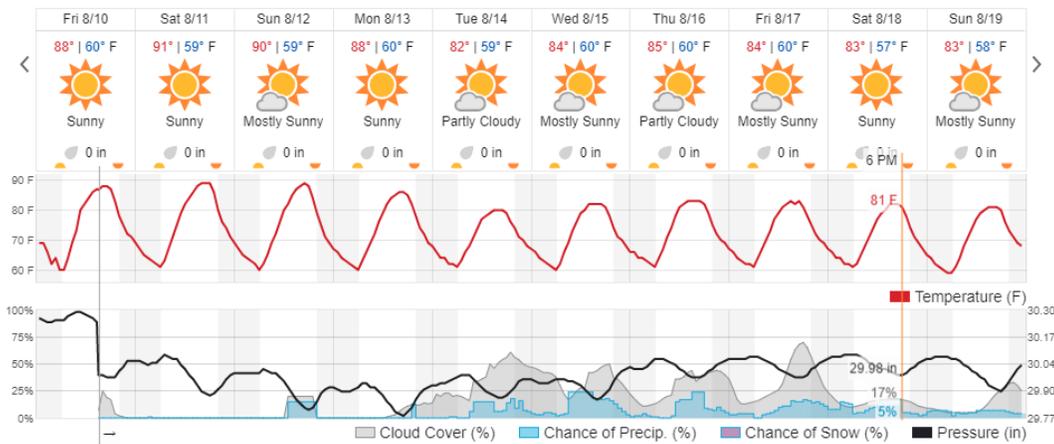
WLOU

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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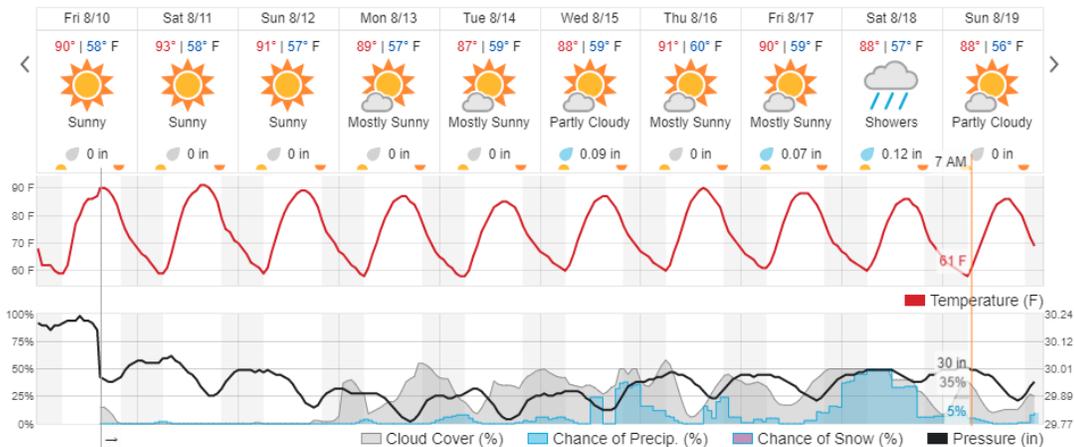
Flown: 0% (0/14)
 Green: 0% (0/14)
 Yellow: 0% (0/14)
 Red: 0% (0/14)

Weather Forecast

Boulder CO



Sterling CO



Flight Collection Plan for 11 August 2018

Flyority 1 (Flight Priority 2): *Lines 2- 30*

Collection Area: Niwot Ridge Mountain Research Station (NIWO)

Flight Plan Name: D13_NIWO_C1_P1_v5_Q780

On-Station Time: 15:33 UTC / 0933 L

Flyority 2 (Flight Priority 3):

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10_RMNP_R2_P1_v2_Q780

On-Station Time: 15:33 UTC / 0933 L

Flyority 3 (Flight Priority 4):

Collection Area: Sterling Agricultural Site (STER)

Flight Plan Name: D10_STER_R1_P1_v3_Q780

On-Station Time: 15:25 UTC / 0925 L

Flyority 4 (Flight Priority 5):

Collection Area: West St. Louis Creek (WLOU)

Flight Plan Name: D13_WLOU_A1_P1_v1_Q780

On-Station Time: 15:35 UTC / 0935 L

Crew: Abe Morrison (NIS), Cameron Chapman (Lidar)