



Payload 3 Daily Flight Report



Date: 2020-06-24

Flight Campaign ID: P3C1

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

Domain: 10 (Central Plains), 13 (Southern Rockies & Colorado Plateau)

Sites Flown: CPER (Central Plains Ecological Range)

Days left in Domain: 11

Report Author: Elissa Barris

Lidar Operators: Elissa Barris

Spectrometer Operators: Cameron Chapman **Hours until maintenance:** 92.12

Pilots: Justin Eddington, Lane Taylor **GPS Instruments:** 01 - CPER, AOP_CPER, AOP_KBDU

Ground Crew: Mitch Haynes

Summary

Completed coverage of CPER in green conditions, re-flying lines that were previously collected under partial cloud cover.

Concerns

None

Comments

- CPER GPS data from today's flight will again need to be manually downloaded.
- Super-efficient flying day from our pilots, with Justin Eddington averaging sub 2-minute turns (his fasted teardrop turn yet was recorded at 1:18, laser off to laser on).

Daily Coverage

D10|CPER

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓																		
Spectrometer	✓	✓																		
Camera	✓	✓																		
Cloud Cover	Green	Green																		

Line #	22	23	24	25	26	27	28
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Green						

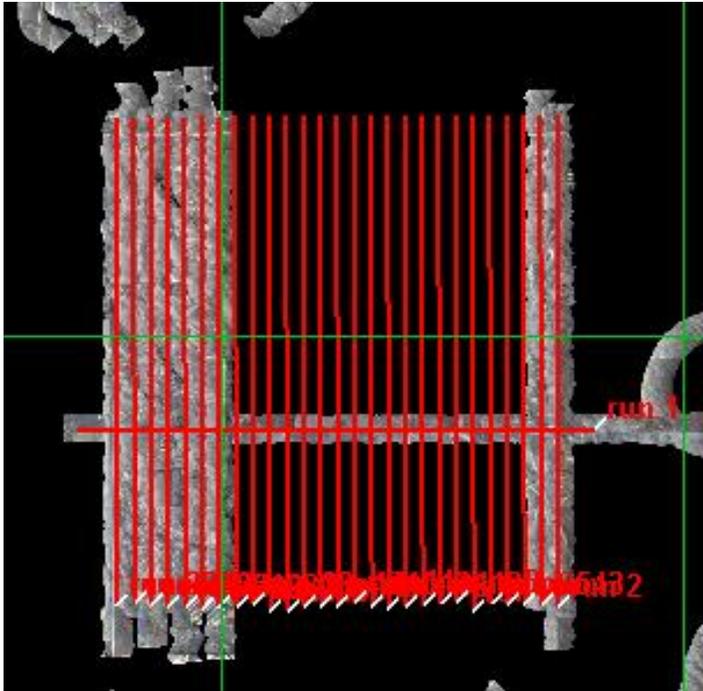
Estimated Cloud Cover Key

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

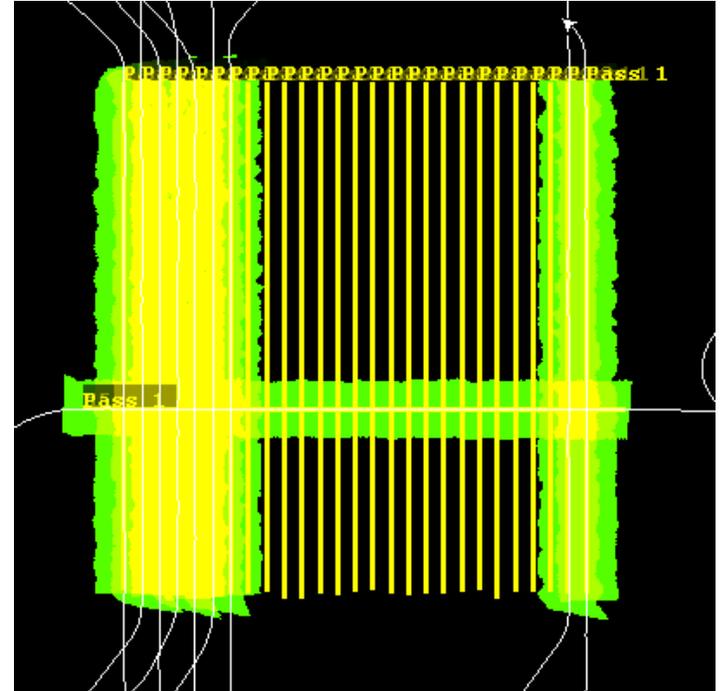
Total number of lines flown: 9

Flight Screenshots

NIS



Lidar



Pictures

None

Cumulative Domain Coverage

D10|ARIK (Arikaree River)

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: 97% (34/35)

Green: 31% (11/35)

Yellow: 46% (16/35)

Red: 20% (7/35)

D10|CPER (Central Plains Ecological Range)

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												

Flown: 100% (28/28)

Green: 64% (18/28)

Yellow: 36% (10/28)

Red: 0% (0/28)

D10|RMNP_P1 (Rocky Mountain National Park 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	36	37	38	39	

Flown: 0% (0/39)

Green: 0% (0/39)

Yellow: 0% (0/39)

Red: 0% (0/39)

D10|RMNP_P2 (Rocky Mountain National Park Priority 2)

40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
60	61	62	63	64															

Flown: 0% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

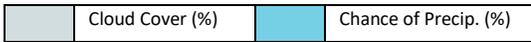
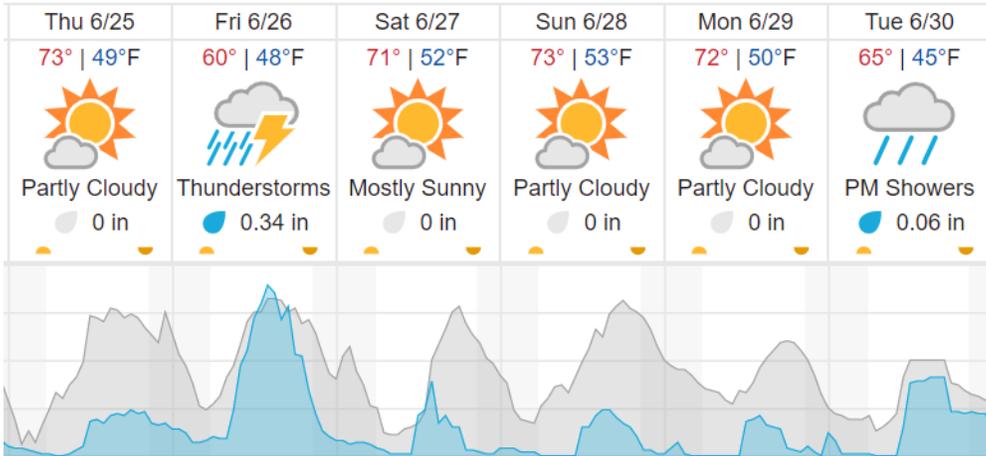
D13 | MOAB (Moab)

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											

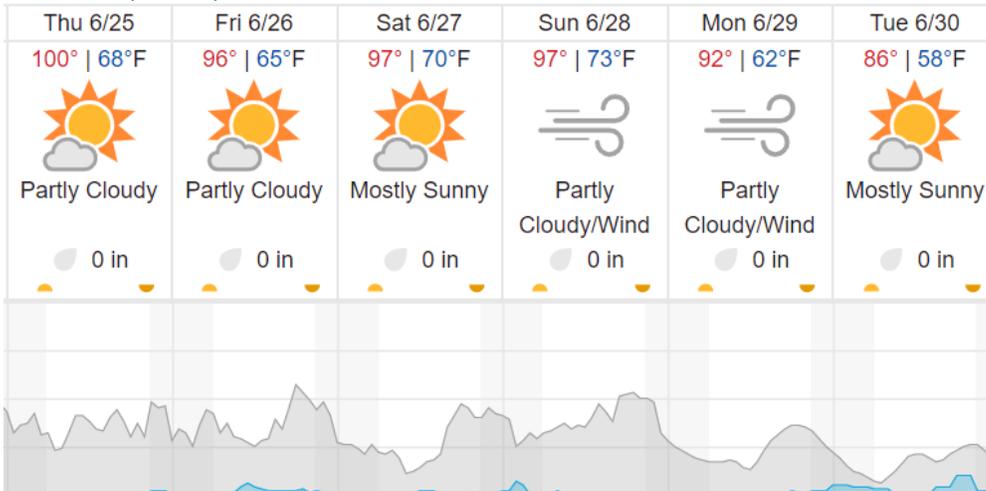
Flown: 0% (0/29)
 Green: 0% (0/29)
 Yellow: 0% (0/29)
 Red: 0% (0/29)

Weather Forecast

Allenspark, CO (RMNP)



Moab, UT (MOAB)



Flight Collection Plan for 25 June 2020

Flyority 1

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10_RMNP_R2_P1_v2_Q780

On-Station Time: 15:20 UTC / 09:20L

Flyority 2

Collection Area: Moab (MOAB) – Moab, UT

Flight Plan Name: D13_MOAB_R1_P1_v3_Q780

On-Station Time: 15:30 UTC / 09:30L

Flight Crew: Cameron Chapman (Lidar), Mitch Haynes (NIS), Elissa Barris (Ground)

Flight Collection Plan for 26 June 2020

Flyorities: Same as previous day

Flight Crew: Mitch Haynes (Lidar), Elissa Barris (NIS), Cameron Chapman (Ground)