



Payload 3 Daily Flight Report



Date: 2020-06-14
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 10 (Central Plains)
Sites Flown: CPER (Central Plains Ecological Range)
Days left in Domain: 15

Report Author: Mitch Haynes
Lidar Operators: Mitch Haynes
Spectrometer Operators: Cameron Chapman
Pilots: Lane Taylor, Justin Eddington
Ground Crew: Nick Marusich
Flight Hours: 01:56
Hours until maintenance: 108.65
GPS Instruments: 00 - CPER, 01 - AOP_CPER, 06 - FBO_KBDU

Summary

Opportunity for green collect over CPER this morning, however by arrival on station, enough cumulus clouds had built combined with some altostratus clouds to the north and east to push sky coverage in the 10-50% range. Some priority lines were collected for initial coverage in addition to allowing new TOIL pilot Lane Taylor to acclimate to NEON flying parameters.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

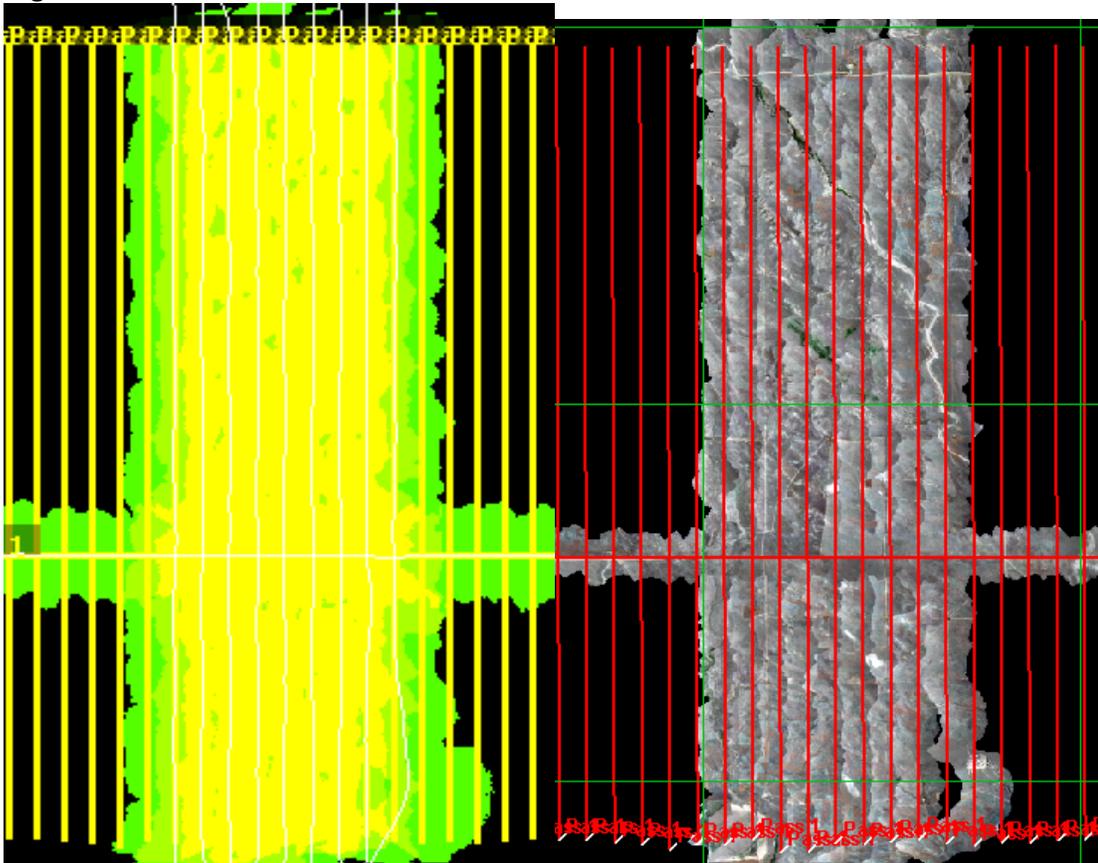
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D10|CPER

Line #	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

Total number of lines flown: 9

Flight Screenshots



Above: Lidar on the left, NIS on the right

Pictures

Below: Cumulus clouds looking west from CPER, in addition to the altostratus layer to the north and east.



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: 0% (0/35)
 Green: 0% (0/35)
 Yellow: 0% (0/35)
 Red: 0% (0/35)

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: 36% (10/28)
 Green: 0% (0/28)
 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)

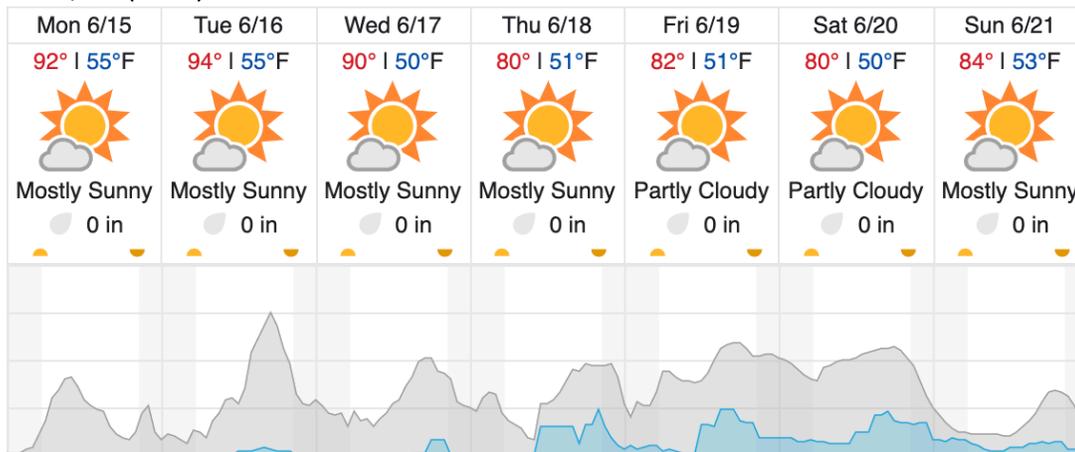
D10|RMNP_P2 (Rocky Mountain National Park Priority 2)

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																

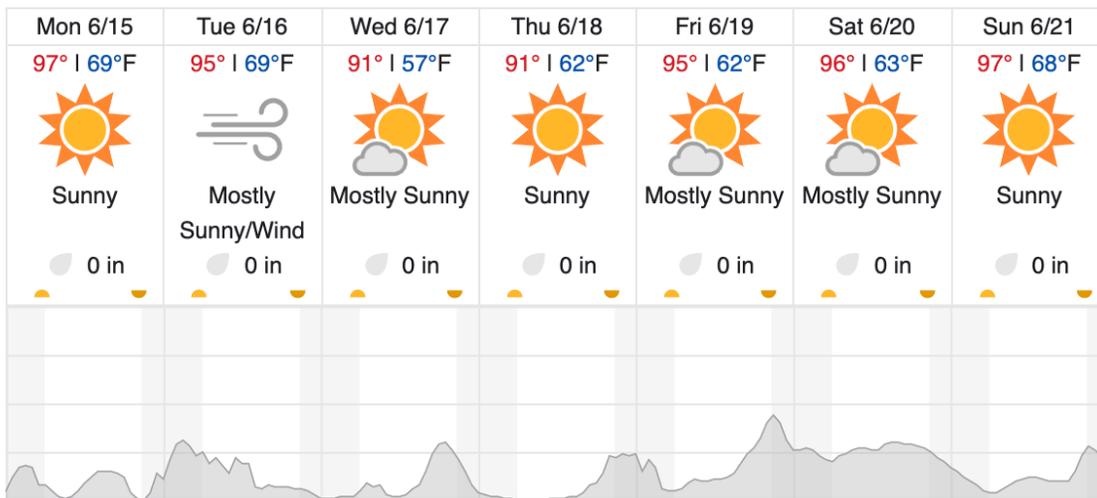
Flown: 0% (0/25)
 Green: 0% (0/25)
 Yellow: 0% (0/25)
 Red: 0% (0/25)

Weather Forecast

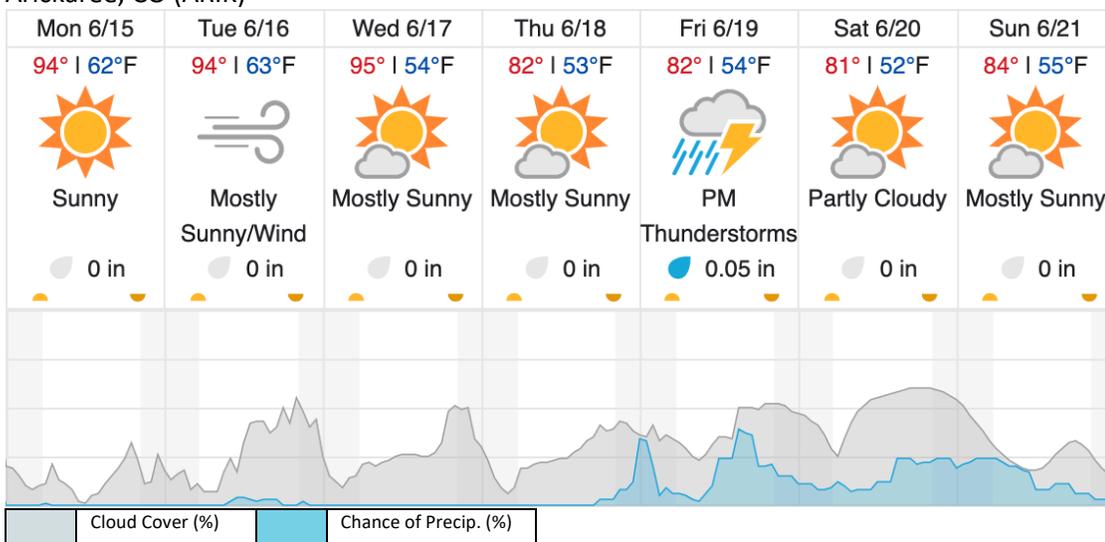
Nunn, CO (CPER)



Moab, UT (MOAB)



Arickaree, CO (ARIK)



Flight Collection Plan for 15 June 2020

Flyority 1

Collection Area: Central Plains Ecological Range (CPER)

Flight Plan Name: D10_CPER_C1_P1_v6_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

Flyority 3

Collection Area: Arikaree River (ARIK) – Arickaree, CO

Flight Plan Name: D10_ARIK_A1_P2_v3_Q780

On-Station Time: 15:10 UTC / 09:10L

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

Flight Collection Plan for 16 June 2020

Flyorities: Same as previous day

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