



Payload 3 Daily Flight Report



Date: 2020-07-02
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 10 (Central Plains)
Sites Flown: RMNP_P1 (Rocky Mountain National Park Priority 1)
Days left in Domain: 3

Report Author: Cameron Chapman
Lidar Operators: Cameron Chapman **Flight Hours:** 03:14
Spectrometer Operators: Nick Marusich **Hours until maintenance:** 84.50
Pilots: Micah Hooegeven, Lane Taylor **GPS Instruments:** 03-RMNP, AOP_KBDU
Ground Crew: Matt Devoe

Summary

RMNP flight box was completed under mixed cloud conditions today. Clear morning skies and high wind speeds eventually gave way to building cumulus clouds and slightly lower wind.

Concerns

- The pilot display had severe connectivity issues shortly after takeoff. Multiple power cycles of the unit and a full reboot of the MIDAS eventually resolved the issue.
- Unusual Tracker VNC lag observed during the flight.
- High winds speeds cause the pilots to maintain a slightly higher speed on S-N flight lines

Comments

- The aircraft is scheduled to transit to D06 Monday.
- Equipment has been shipped to D06 and is scheduled to arrive Monday

Daily Coverage

Estimated Cloud Cover Key

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

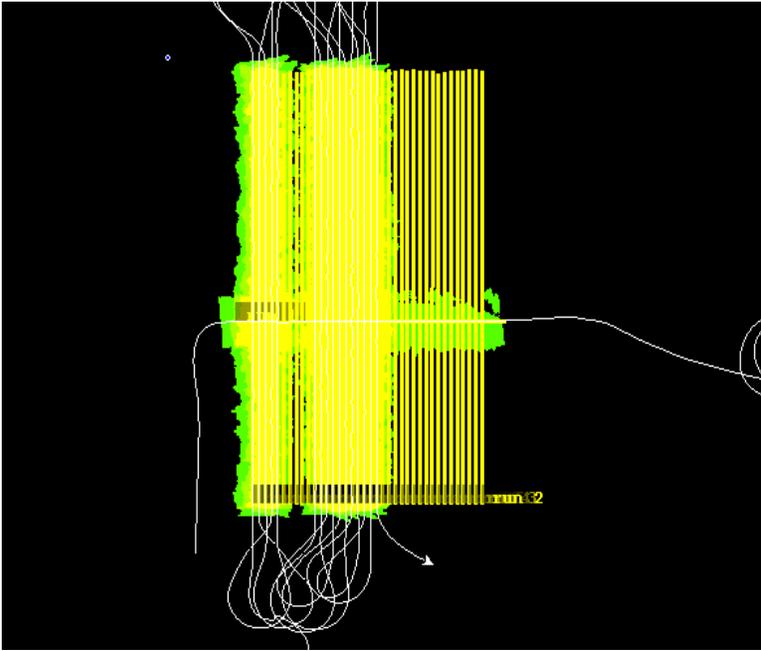
D10|RMNP_P1

Line #	19	20	21	22	23	24	25	26	27	28	29	35	36	37	38	39
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																

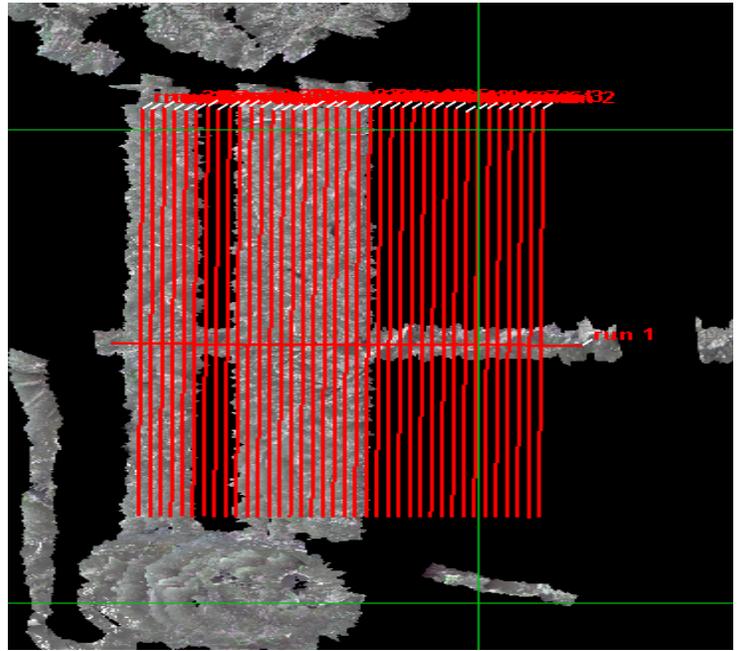
Total number of lines flown: 16

Flight Screenshots

RMNP LIDAR SWATH



RMNP NIS SWATH



Pictures

Clear morning skies with haze over RMNP 20200702



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: 100% (28/28)

Yellow: 0% (0/28)

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: 100% (39/39)

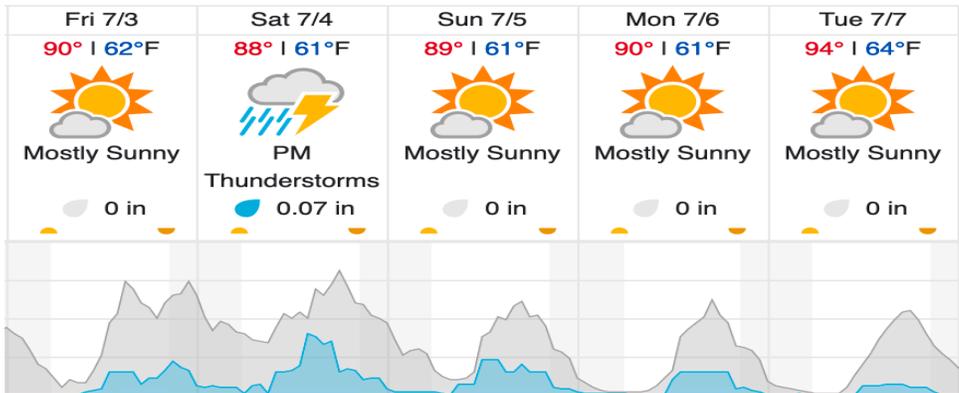
Green: 92% (36/39)

Yellow: 8% (3/39)

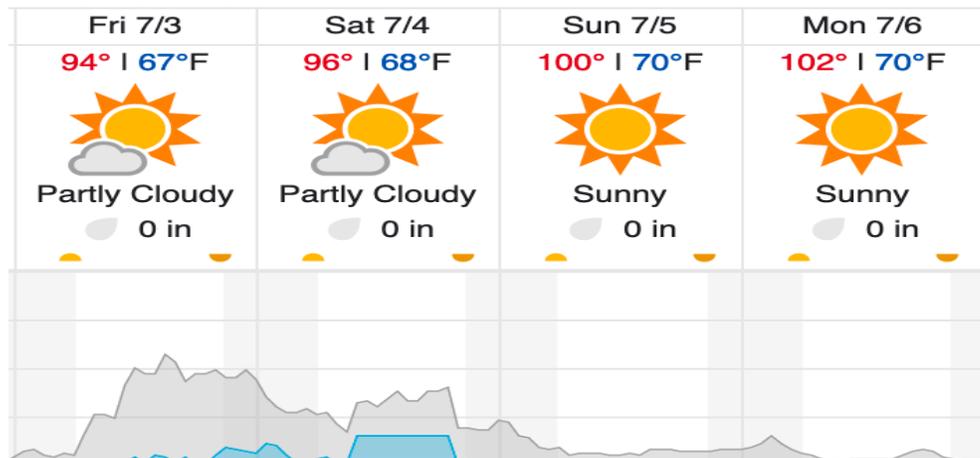
Red: 0% (0/39)

Weather Forecast

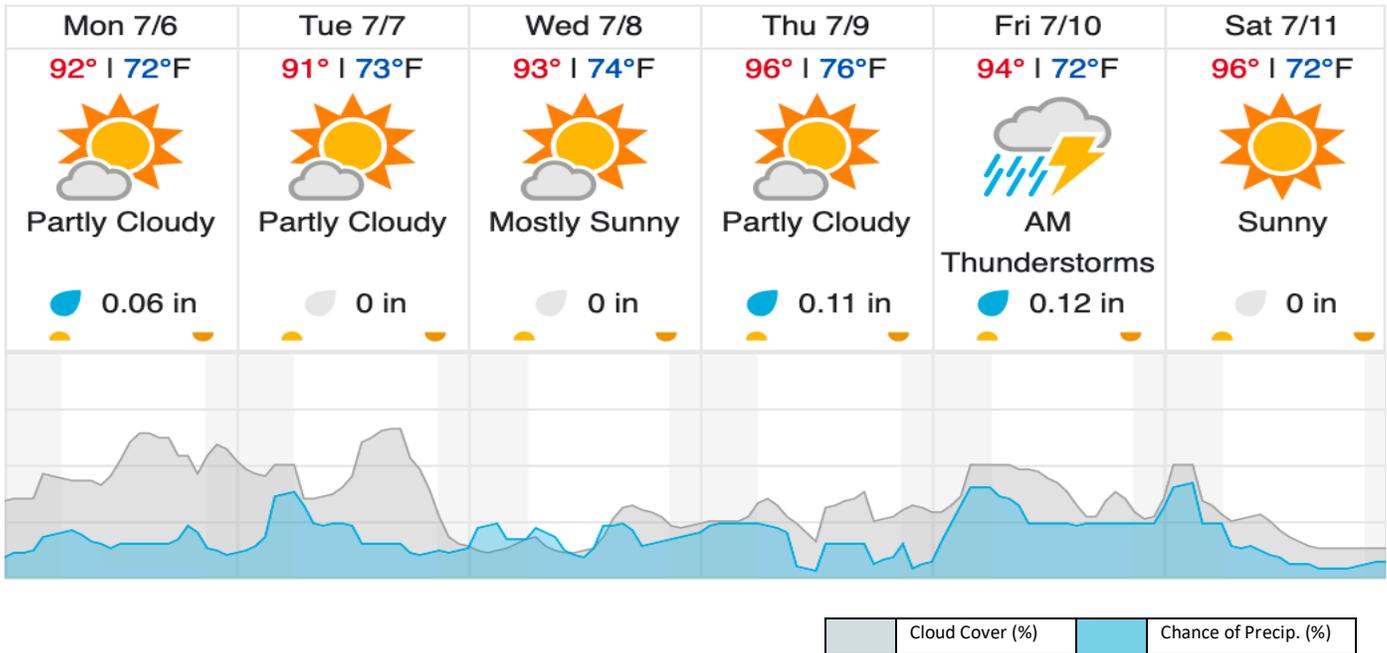
Boulder, CO



MOAB, UT (MOAB)



TOPEKA, KS (D06)



Flight Collection Plan for 3 -5 July 2020

Flyority 1

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), Matthew DeVoe (NIS), Nicolas Marusich (Ground)