



## 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 Hoogeveen, 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%

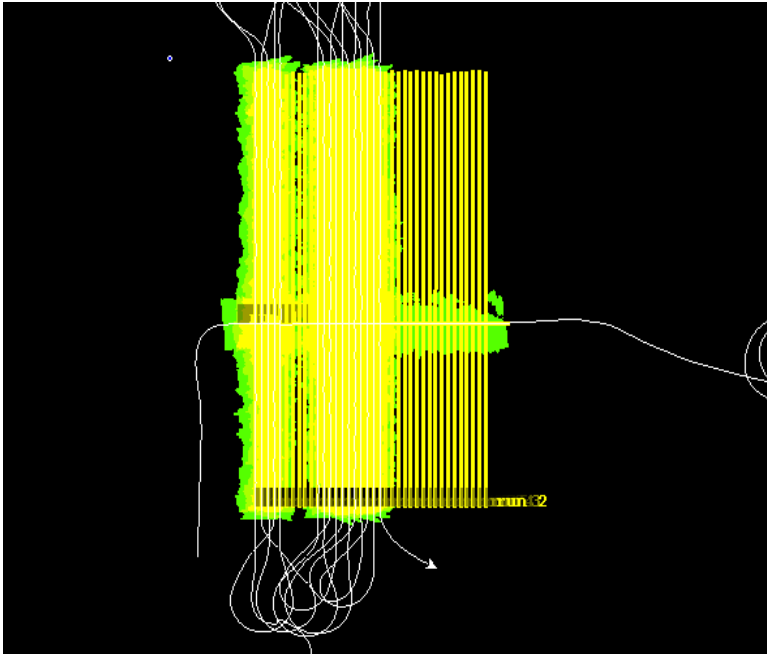
D10|RMNP\_P1

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

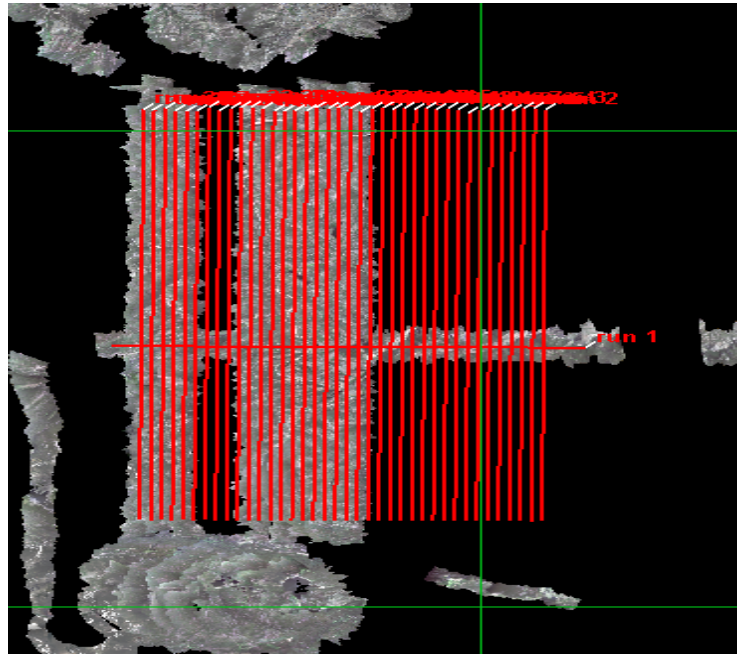
Total number of lines flown: 16

## 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)

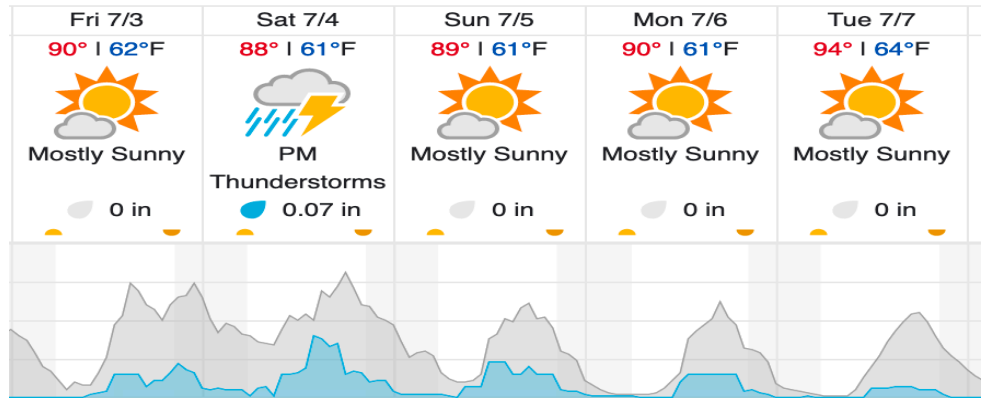
D10|RMNP\_P1 (Rocky Mountain National Park Priority 1 )

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	

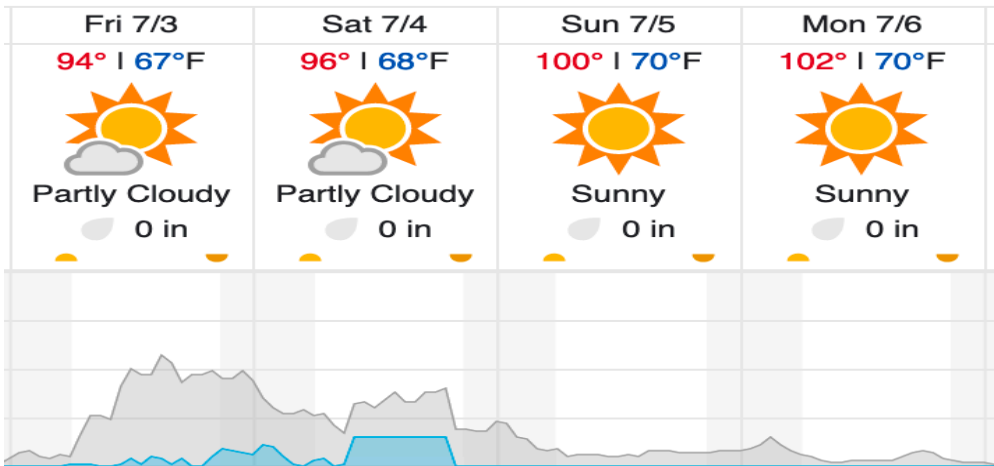
Flown: 100% (39/39)  
Green: 92% (36/39)  
Yellow: 8% (3/39)  
Red: 0% (0/39)

Weather Forecast

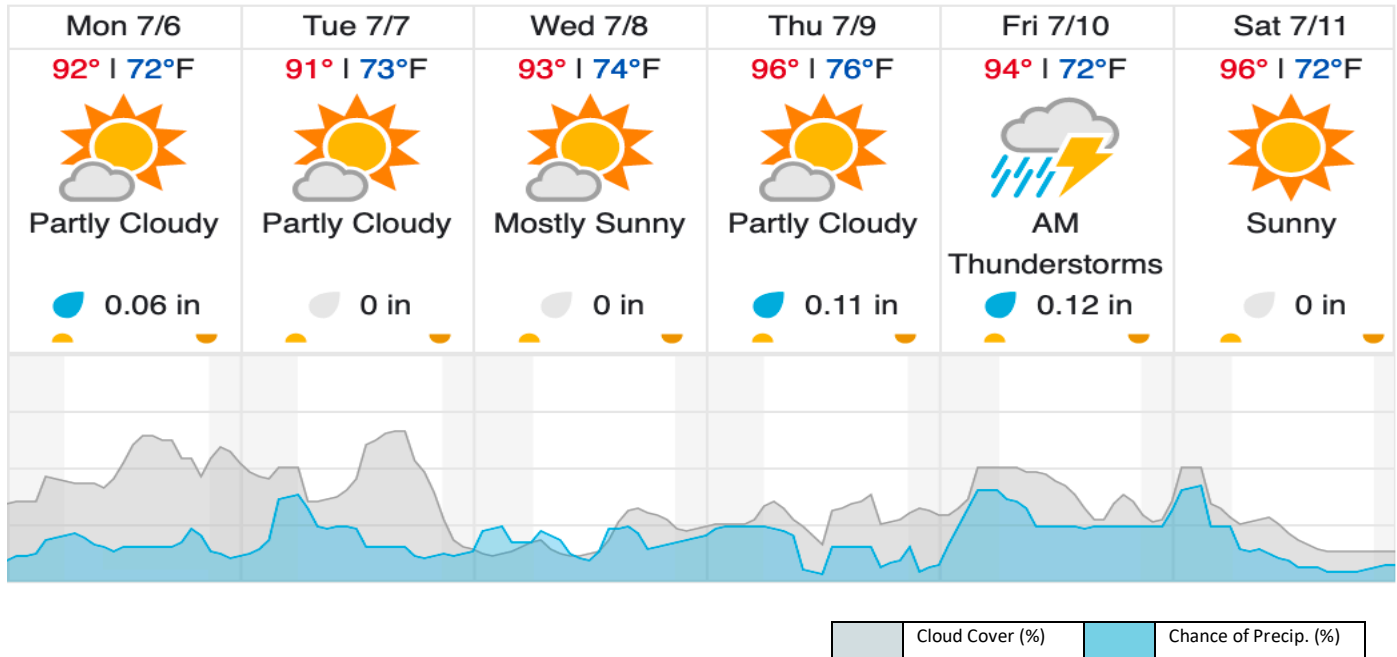
Boulder, CO



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)