



Payload 3 Daily Flight Report



Date: 2024-07-31
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N821AR

Domain: 10 (Central Plains)
Sites Flown: RMNP (Rocky Mountain National Park)
Days left in Domain: 28

Report Author: Matt
Lidar Operators: Matt **Flight Hours:** 02:52
Spectrometer Operators: Nick **Hours until maintenance:** 107.65
Pilots: Vince, Manning **GPS Instruments:** AOP_KBDU, AOP_NIWO

Summary

The crew took advantage of another cloud free morning and flew to the RMNP site collections. 19 lines were collected in green conditions. Smoke from the Alexander and Stone Mountain fires could be observed moving its way west into the Estes Park region. We'll continue to monitor for any impacts to flight operations.

Concerns

During the flight today a strong gas smell was present in the cabin. Once on the ground we found the sensors covered in JP8 fuel. The lidar, camera and spectrometer were cleaned, and new gas cap seals for the otter were ordered. They should arrive by tomorrow morning.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

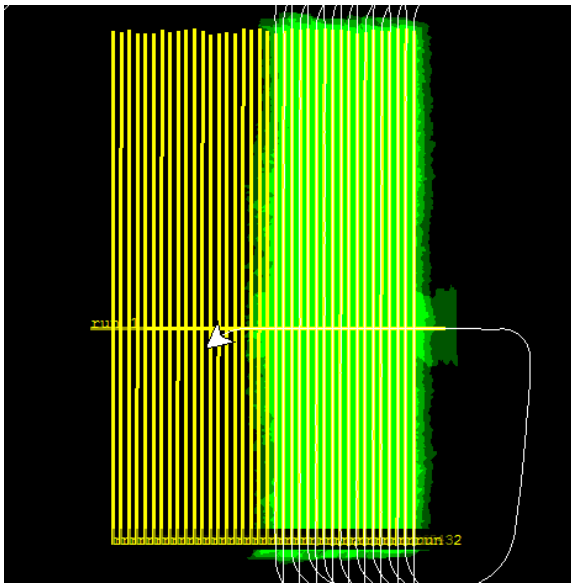
Line #

D10|RMNP

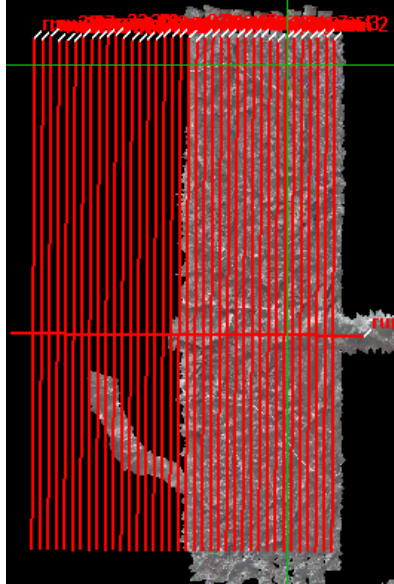
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																			

Total number of lines flown: 19

Flight Screenshots



Lidar



NIS

Cumulative Domain Coverage

D10|ARIK (Arikaree River)

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% (0/33)

Green: 0% (0/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

D10|RMNP (Rocky Mountain National Park)

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		

Flown: 69% (27/39)

Green: 69% (27/39)

Yellow: 0% (0/39)

Red: 0% (0/39)

D10|STER (Sterling Agricultural Site)

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																

Flown: 100% (25/25)

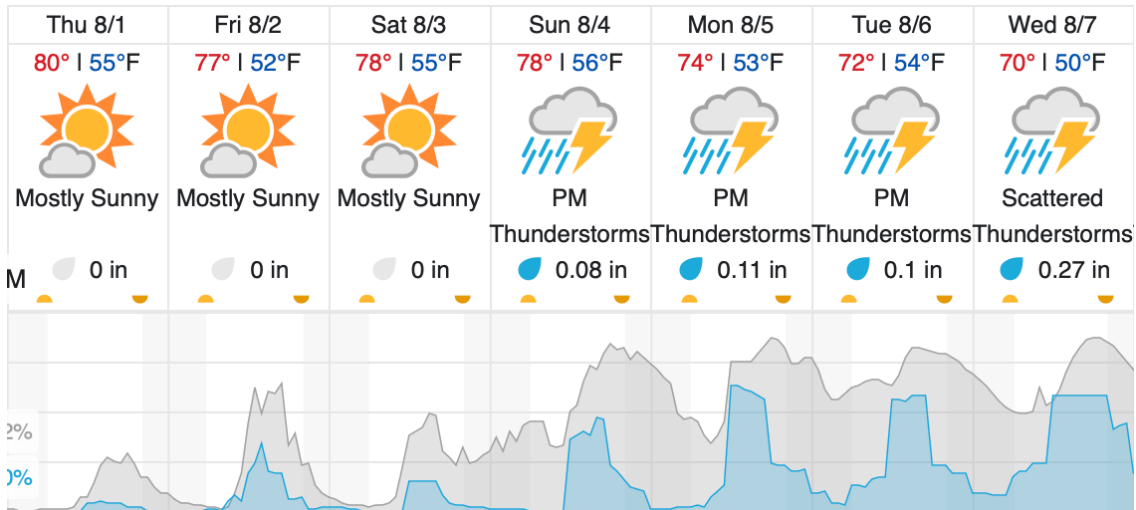
Green: 100% (25/25)

Yellow: 0% (0/25)

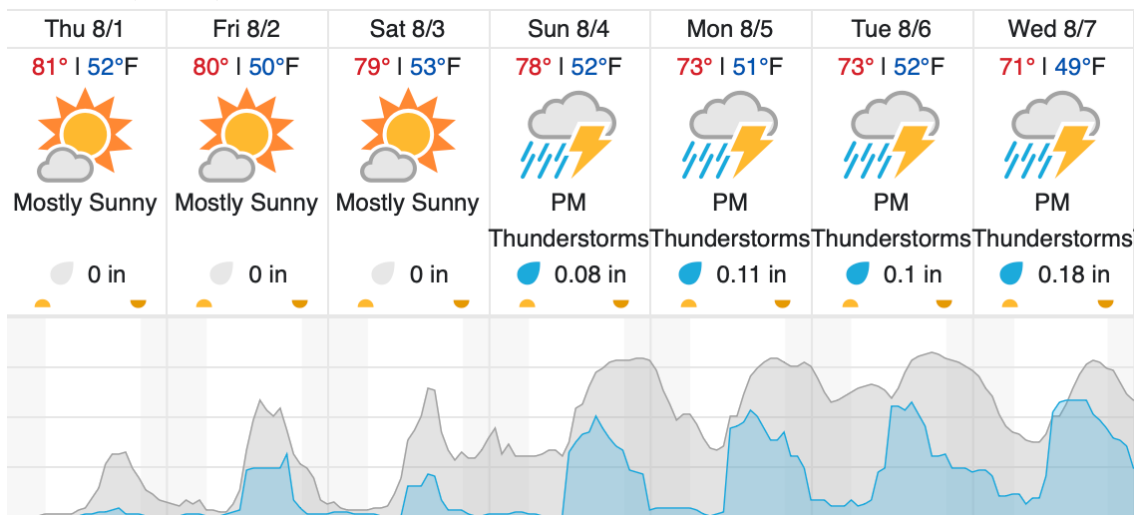
Red: 0% (0/25)

Weather Forecast

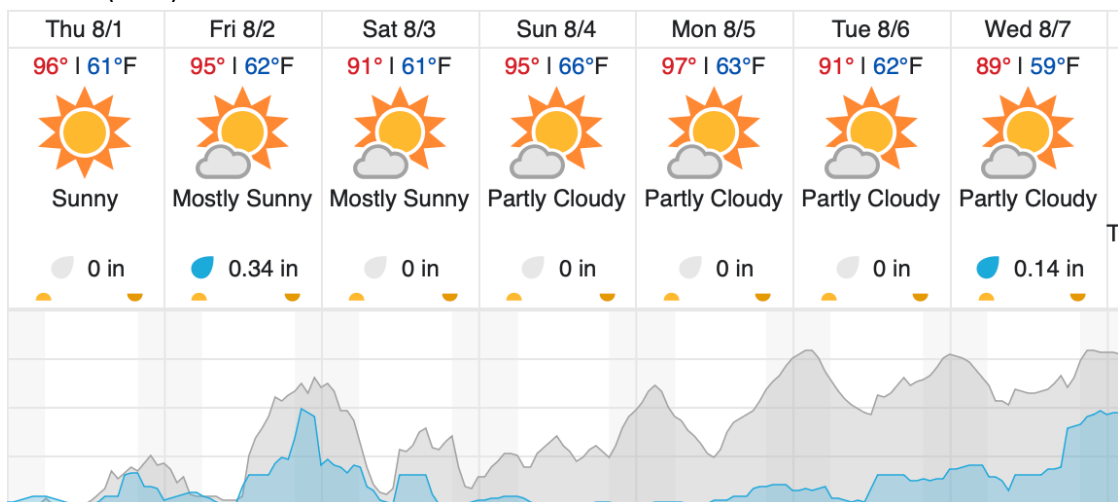
Allenspark CO (RMNP)



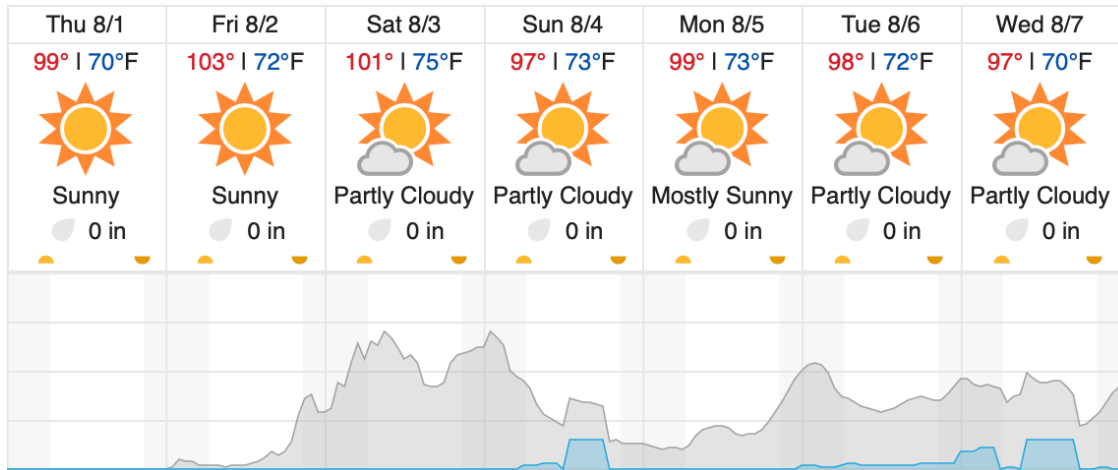
Fraser CO (WLOU)



Joes CO (ARIK)



Ogden UT (CTWD)



source: wunderground.com

Flight Collection Plan for Aug 1st 2024

Flyority 1

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10_RMNP_R2_P1_v4_Q780

On-station Time: 1530 UTC / 0930 L

Flyority 2

Collection Area: West St. Louis Creek (WLOU)

Flight Plan Name: D13_WLOU_A1_P1_v2_Q780

On-station Time: 1540 UTC / 0940 L

Flyority 3

Collection Area: Arikaree River (ARIK) – Priority 1 & 2 Flight Box

Flight Plan Name: D10_ARIK_A1_P2_v3_Q780

On-station Time: 1520 UTC / 0920 L

Flyority 4

Collection Area: Northern Utah Priority 1 Flight Plan

Flight Plan Name: D15_CTWD_S1_P1_v1

On-station Time: 1520 UTC / 0920 L

Flyority 4

Collection Area: Northern Utah Priority 2 Flight Plan

Flight Plan Name: D15_CTWD_S1_P2_v1

On-station Time: 1520 UTC / 0920 L

Crew: Nick(Lidar), Matt (NIS)