



## Payload 2 Daily Flight Report



**Date:** 2020-06-07

**Flight Campaign ID:** P2C1

**Airport, FBO ID, City:** Rocky Mountain Metropolitan Airport (KBJC) - Broomfield, CO

**Domain:** 00 (Training & Calibration)

**Sites Flown:** R10A (Table Mountain Radiometric Calibration), V10C (Boulder City South)

**Days left in Domain:** 4

**Report Author:** John Adler

**Lidar Operators:** John Adler, Ivana Vu

**Spectrometer Operators:** Ivana Vu, Robb Walker

**Pilots:** Stephen Brawders, Will Matthews

**Ground Crew:** Ivana Vu

**Flight Hours:** 01:15, 00:49

**Hours until maintenance:** 101.97

**GPS Instruments:** 06 - FBO\_KBDU, 10 - NGN-KBDU, U-P041

### Summary

Today the crew completed the Radiometric Calibration flight over Table Mountain, both at 40° and 45° solar angles. This also completed Robb Walker's NIS re-certification flight. The priority was then shifted to completing John Adler's NIS and lidar re-certifications. All of Crew 2 has now completed their annual re-certifications.

A great AOP team effort today! Both Payloads completed coincident Table Mountain flights, with a hat's off to the Science team for coordinating and executing the ground tarps. And all of these systems worked 4.0 due to Lab's diligence!

### Concerns

None

### Comments

Tomorrow morning it is hoped to complete the NIS offset flight and the second portion of the camera auto-exposure test. The Crew 2 list for the rest of the week was modified.

Most of the integrated Service Now updates for AOP data collections are working; Monday during the FlightOps meeting the last few items to be fixed will be discussed.

### Daily Coverage

Estimated Cloud Cover Key

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

D00|R10A

Line #	1	2	3	4	5
Lidar					
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

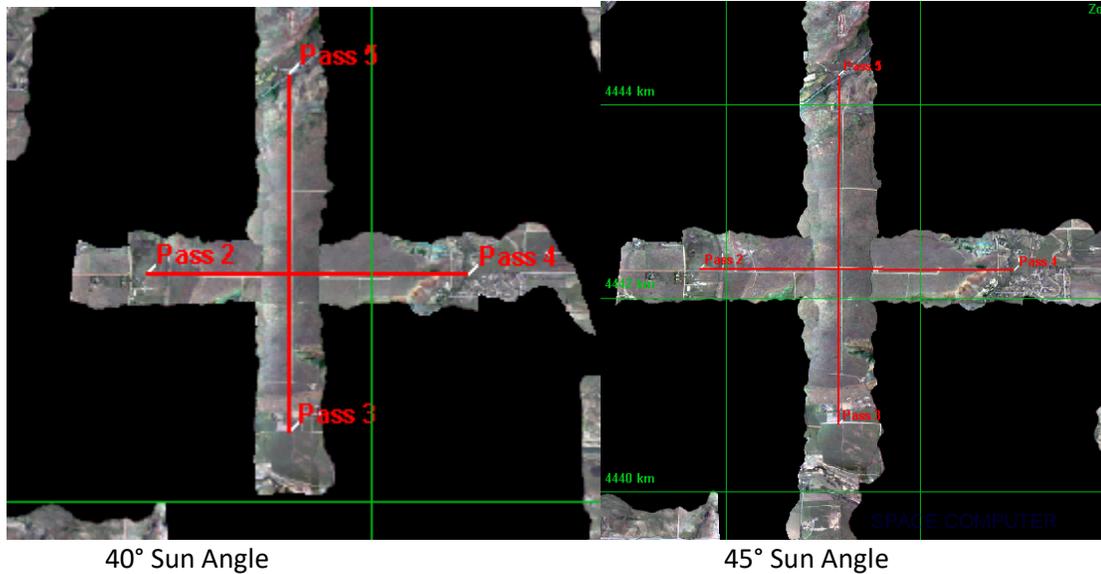
Total number of lines flown: 5

D00|V10C

Line #	11	12	13	14
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 4

### Flight Screenshots



### Cumulative Domain Coverage

D00|B10B (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 500m)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Flown: 100% (20/20)

Green: 0% (0/20)

Yellow: 70% (14/20)

Red: 0% (0/20)

D00|H10B (NEON Headquarters Lidar Test - modified cross-track)

1	2	3	4
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Flown: 100% (4/4)

Green: 50% (2/4)

Yellow: 50% (2/4)

Red: 0% (0/4)

D00|N10C (Nominal Runway at KBDU - Optech)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 100% (14/14)

Green: 0% (0/14)

Yellow: 0% (0/14)

Red: 100% (14/14)

D00|O10A (NIS Offset)

1 2

Flown: 0% (0/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 0% (0/2)

### D00|R10A (Table Mountain Radiometric Calibration)

1 2 3 4 5

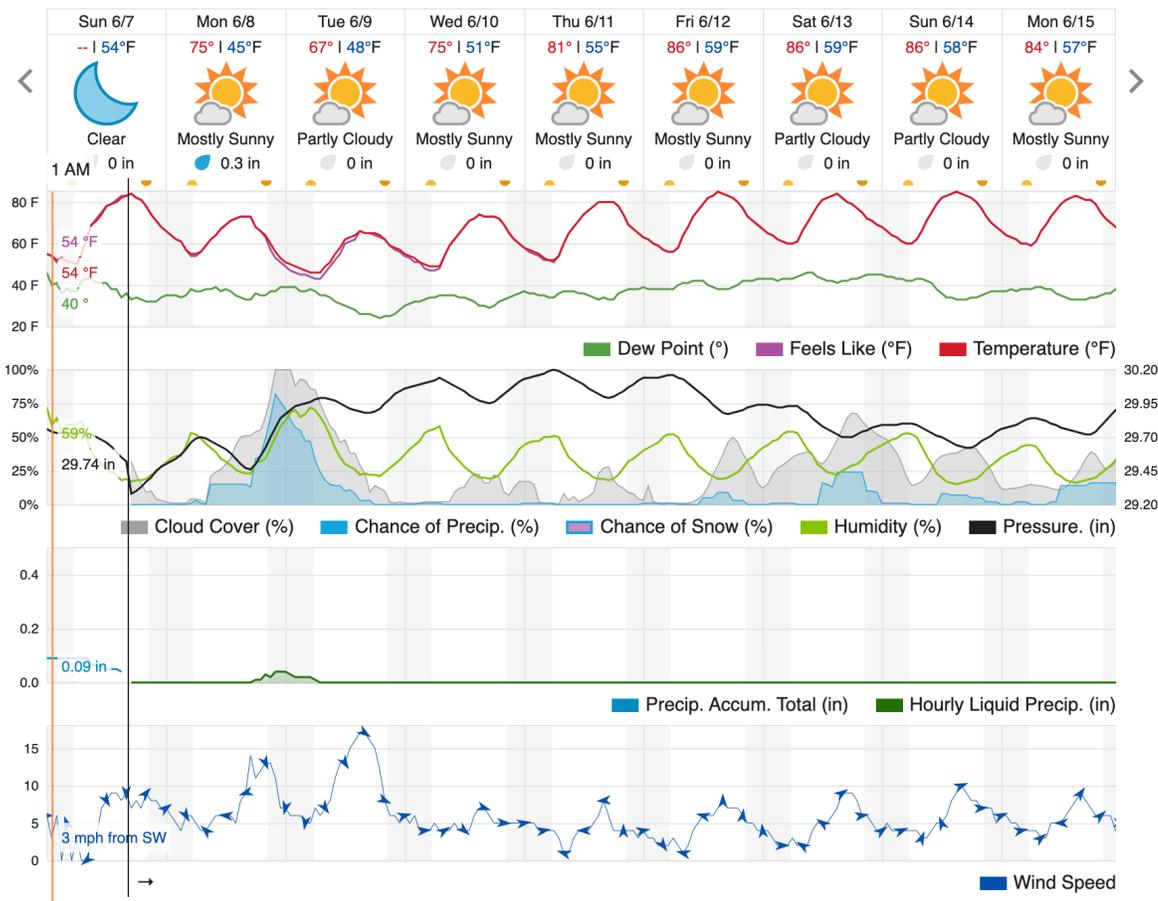
Flown: 100% (5/5)  
Green: 100% (5/5)  
Yellow: 0% (0/5)  
Red: 0% (0/5)

### D00|W10B (Wiggle Timing Test)

1 2

Flown: 100% (2/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 100% (2/2)

### Weather Forecast



### Flight Collection Plan for 08-09 June 2020

#### Flyority 1

Collection Area: NIS Offset Flight  
Flight Plan Name: D10\_O10A\_NIS\_Offset\_v1.pln  
On-station Time: 0850 – 1730 Local / 1450 – 2300 UTC

**Flyority 2**

Collection Area: Boulder City Nominal – Auto-Exposure Testing

Flight Plan Name: D10\_V10C\_Boulder\_City\_v6.pln

On-station Time: 0850 – 1730 Local / 1450 – 2300 UTC

Lines Remaining: Section 2 – Lines 9-13, Section 4 – Lines 25-28, Section 5 – Lines 17-19

**Crew**

6/8: Ivana Vu (Lidar), Matt DeVoe (NIS)

6/9: Michael Wussow (Lidar), Matt DeVoe (NIS)