



## Payload 3 Daily Flight Report



**Date:** 2020-06-09

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

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

**Sites Flown:** None

**Days left in Domain:** 20

**Report Author:** Mitch Haynes

**Lidar Operators:** Mitch Haynes

**Spectrometer Operators:** Cameron Chapman

**Pilots:** Justin Eddington, Mike Francis

**Ground Crew:** Elissa Barris

**Flight Hours:** 0.0

**Hours until maintenance:** 115.08

**GPS Instruments:** None

### Summary

Heavily overcast conditions across the Boulder Valley this morning with strong winds aloft. Clouds gradually cleared with sunnier skies into the afternoon, however enough cumulus clouds remained over the front range with still windy conditions to prevent flights from occurring.

### Concerns

- Conducted POS testing this morning with lab manager Ian Crocker. POS was recorded under various conditions both inside and out of the hangar with the GPS repeater in the hangar both on and off. Early indications suggest possible interference from the repeater (which changed positions within the hangar this offseason) as the culprit of P3's POS troubles. Further analysis from data collected during testing is being done by Bridget. As of the writing of this report, P3 will plan on survey flights tomorrow with the GPS repeater turned off.

### Comments

- Happy Birthday Elissa Barris!

### Daily Coverage

None.

### Flight Screenshots

None.

### Pictures

None.

## Cumulative Domain Coverage

### Estimated Cloud Cover Key

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

### D00|B10E (Riegl Bore sight Calibration - 1600m, 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: 0% (0/20)

Green: 0% (0/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

### D00|H10C (NEON Headquarters Lidar Test - Riegl)

1	2
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Flown: 100% (2/2)

Green: 100% (2/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

### D00|N10D (Nominal Runway at KBDU - Riegl)

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														

Flown: 92% (24/26)

Green: 0% (0/26)

Yellow: 62% (16/26)

Red: 38% (10/26)

### D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 100% (2/2)

Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

### D00|R10C (Table Mountain Radiometric Calibration - Riegl)

1	2	3	4	5
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Flown: 100% (5/5)

Green: 100% (5/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

### D00|W10C (Wiggle Timing Test - Riegl)

1	2
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Flown: 100% (2/2)

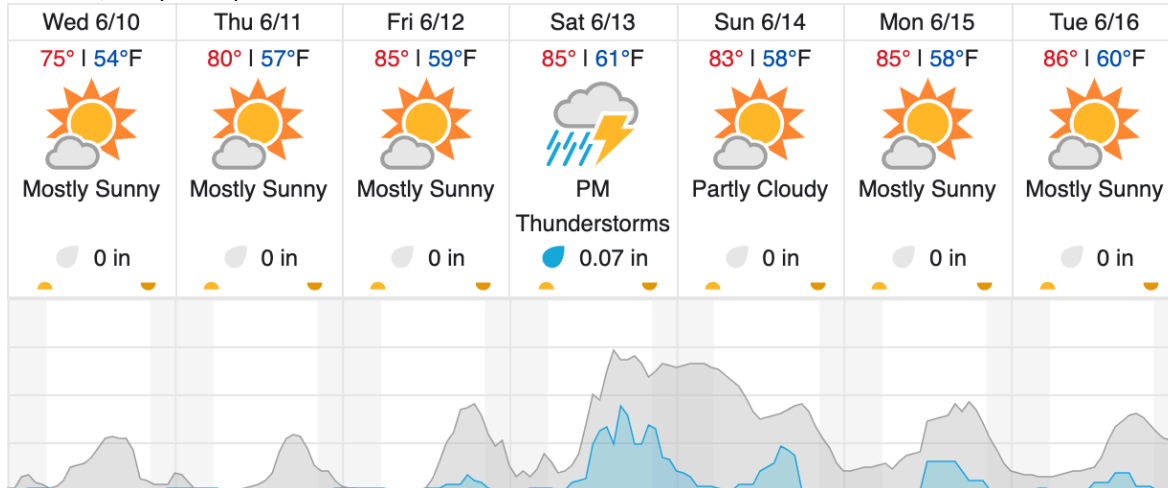
Green: 0% (0/2)

Yellow: 100% (2/2)

Red: 0% (0/2)

## Weather Forecast

Boulder, CO (KBDU)



Cloud Cover (%)	Chance of Precip. (%)
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### Flight collection plans for 10 June 2020:

Flyority 1

Collection Area: Riegl Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10E\_Boresight\_1000m\_Q780

On-Station Time: 14:50 UTC / 08:50L

Flyority 2

Collection Area: NIS Offset Flight

Flight Plan Name: D10\_O10B\_NIS\_Offset\_v2\_Q780

On-Station Time: 14:50 UTC / 08:50L

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

### Flight collection plans for 11 June 2020:

Flyorities: Same as previous day

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