



Payload 3 Daily Flight Report



**Date:** 2020-06-11

**Flight Campaign ID:** P3C1

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

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

**Sites Flown:** B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

**Days left in Domain:** 0

**Report Author:** Elissa Barris

**Lidar Operators:** Elissa Barris

**Flight Hours:** 02:27

**Spectrometer Operators:** Mitch Haynes

**Hours until maintenance:** 00

**Pilots:** Mike Francis, Justin Eddington

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

**Ground Crew:** Cameron Chapman

**Summary**

Cloud-free conditions this morning allowed for green collection of the Lidar boresight calibration flight, concluding beginning-of-season calibration flights for Payload 3.

**Concerns**

None.

**Comments**

- Extraction of yesterday's data completed successfully, and extraction of today's data is running smoothly.
- POS testing from yesterday's flight (during which the hangar repeater was turned off) has shown promising early results.
- Calibration flights completed; science flights to begin starting tomorrow.

**Daily Coverage**

Estimated Cloud Cover Key

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

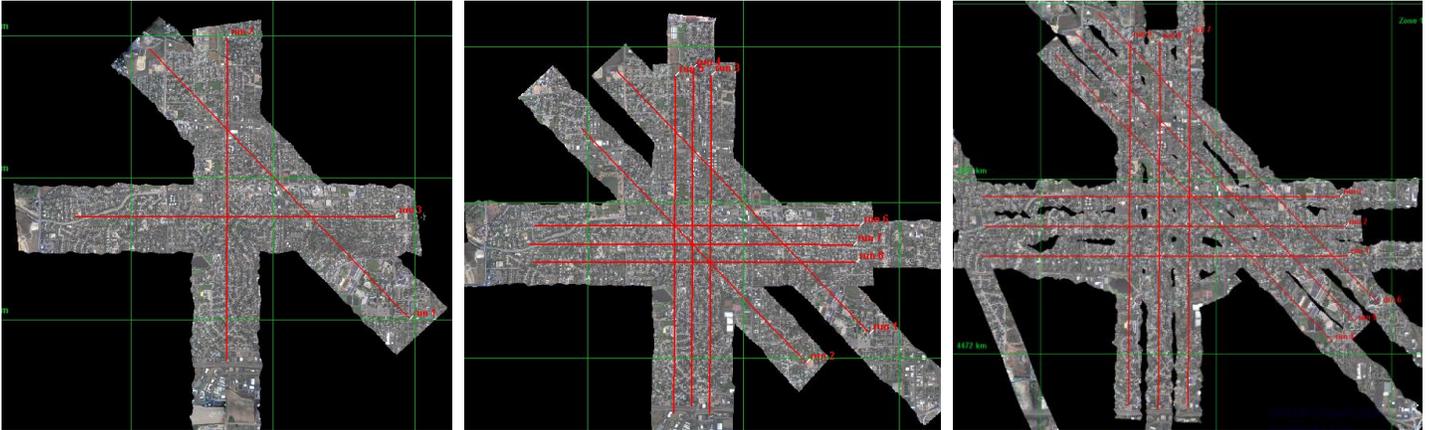
D00|B10E

Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

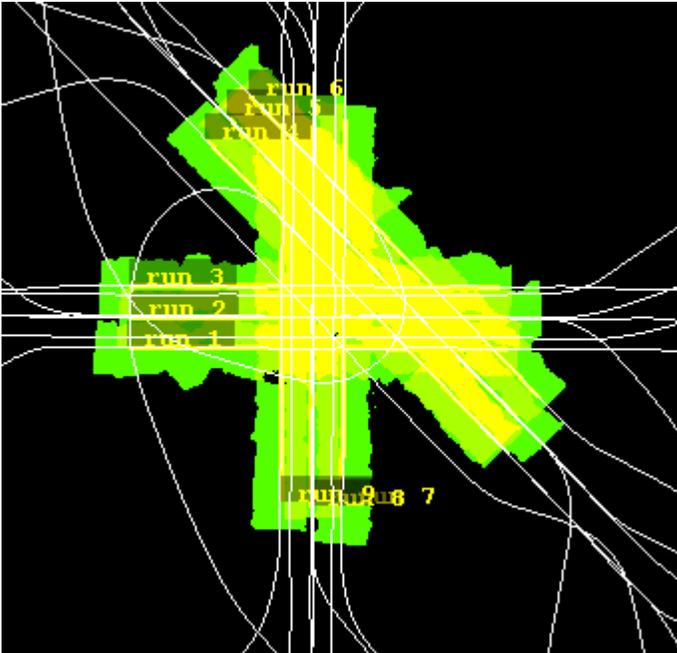
Total number of lines flown: 20

## Flight Screenshots

### Spectrometer



### LiDAR



### Pictures

None.

### Cumulative Domain Coverage

D00|B10E (Riegl Bovesight 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: 100% (20/20)

Green: 100% (20/20)

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: 31% (8/26)

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)

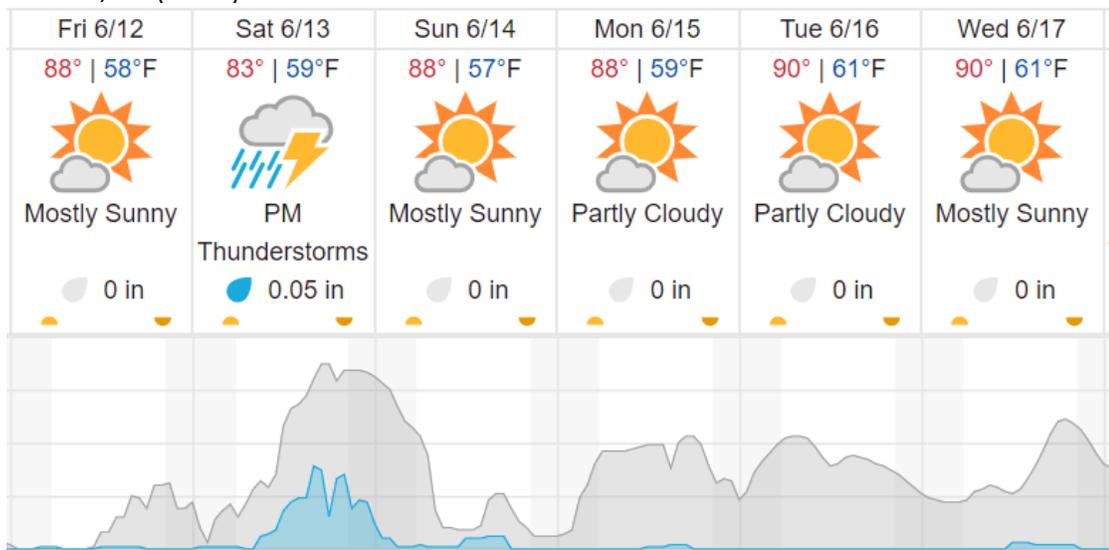
D00|W10C (Wiggle Timing Test - Riegl)

1	2
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Flown: 100% (2/2)  
 Green: 0% (0/2)  
 Yellow: 100% (2/2)  
 Red: 0% (0/2)

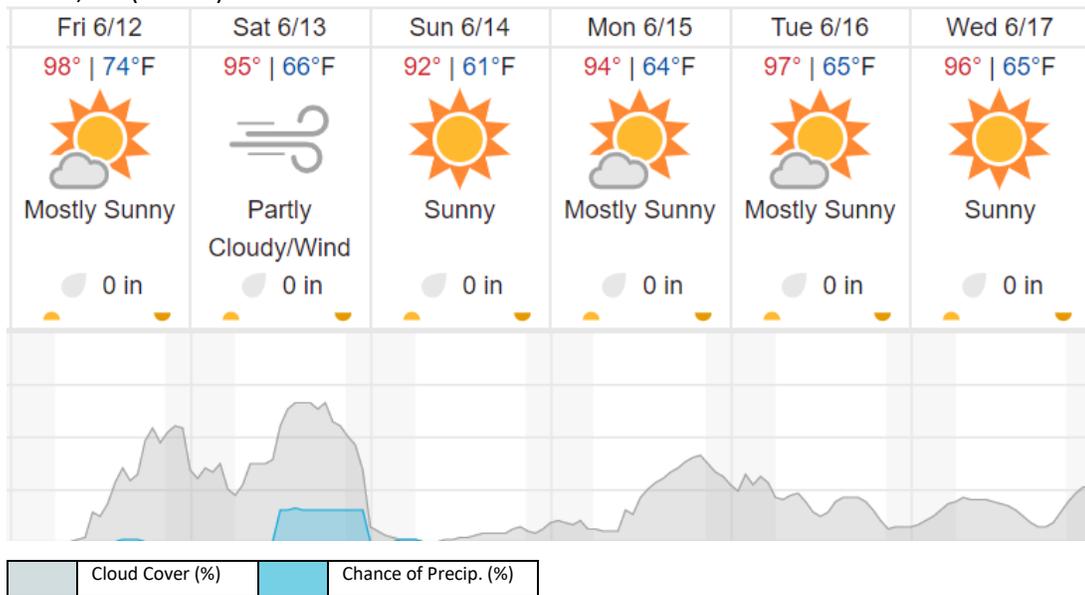
**Weather Forecast**

Boulder, CO (KBDU)

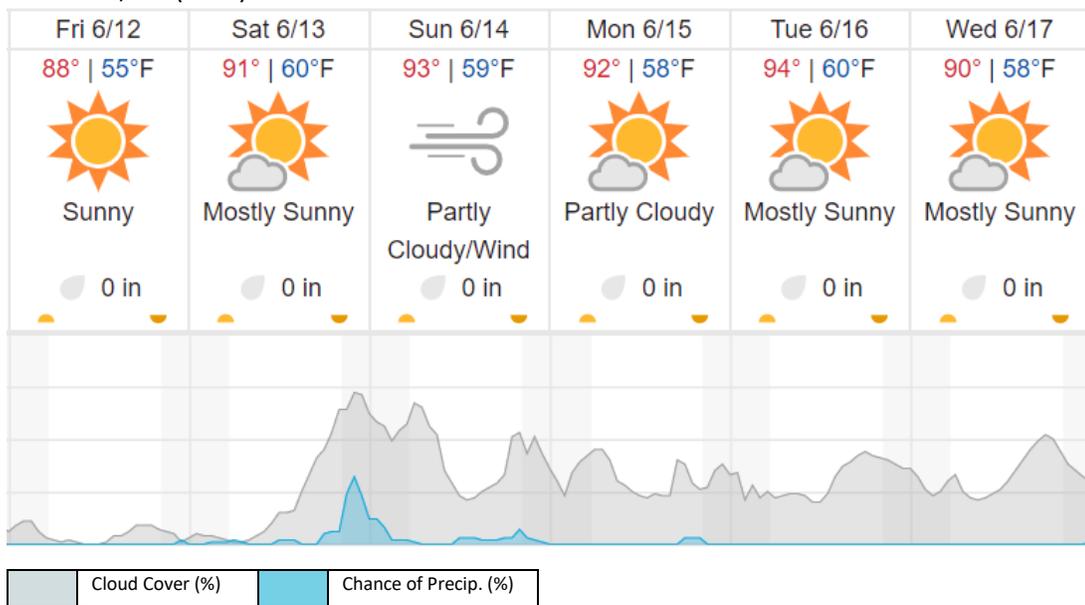


Cloud Cover (%)	Chance of Precip. (%)
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Moab, UT (MOAB)



Arickaree, CO (ARIK)



**Flight Collection Plan for 12 June 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

Flyority 2

Collection Area: Arickaree River (ARIK) – Arickaree, CO  
 Flight Plan Name: D10\_ARIK\_A1\_P2\_v3\_Q780  
 On-Station Time: 15:10 UTC / 09:10L

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