



Payload 3 Daily Flight Report



Date: 2020-06-03

Flight Campaign ID: 2020_P3C1

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

Domain: 00 (Calibration / Training)

Sites Flown: N10D (Functional Check Flight / Nominal Runway)

Days left in Domain: 28

Report Author: Mitch Haynes

Lidar Operators: Mitch Haynes

Spectrometer Operators: Elissa Barris

Pilots: Mike Francis, Justin Eddington

Additional Personnel: Cameron Chapman (Trainer)

Flight Hours: 1:08

Hours until maintenance: 121.87

GPS Instruments: 06-FBO_KBDU, NGN-KBDU

Ground Crew: Nick Marusich

Summary

The functional checkout flight served its purpose today, with the P3 crew spending time working out a lot of early kinks of the payload. Six lines of the Nominal runway flight plan were collected under non-green conditions. Data from the flight was not extracted.

Concerns

- Unable to remote into any NEON GPS units this morning, despite both the permanent KBDU unit and a temporary unit displaying online and logging status. Investigation ongoing.
- Updated database had some learning curve issues with the most recent update and still needed some work before being fully functional. Some updates have been conducted this evening, but is still not 100%. Formal ASO training will be scheduled later this week.
- KVM DVI cord ripped out (with minimal force applied) during today's flight. Operation continued via external displays and using the telemetry laptop to SVN into the Crystal Computer. Andrew was able to replace the cord post-flight without much trouble. Thanks Andrew!
- RiAcquire computer lost power during flight. Rebooted properly on the ground, appears to be isolated incident.
- Updated version of tracker software appears to be slightly different while copying POS files to the Midas disk portion of our procedures. Kept getting a failure post-flight ("MIDAS SSD destination drive is no longer available"), but appeared to copy after towing into the hangar and restarting system. Will continue working with new version of the software to better understand the issue.

Comments

- NIS operated flawlessly.
- Conducted and extracted Hg Lamp.
- Recerts:
 - Mitch recertified on Lidar
 - Elissa recertified on NIS
 - Nick recertified on Ground

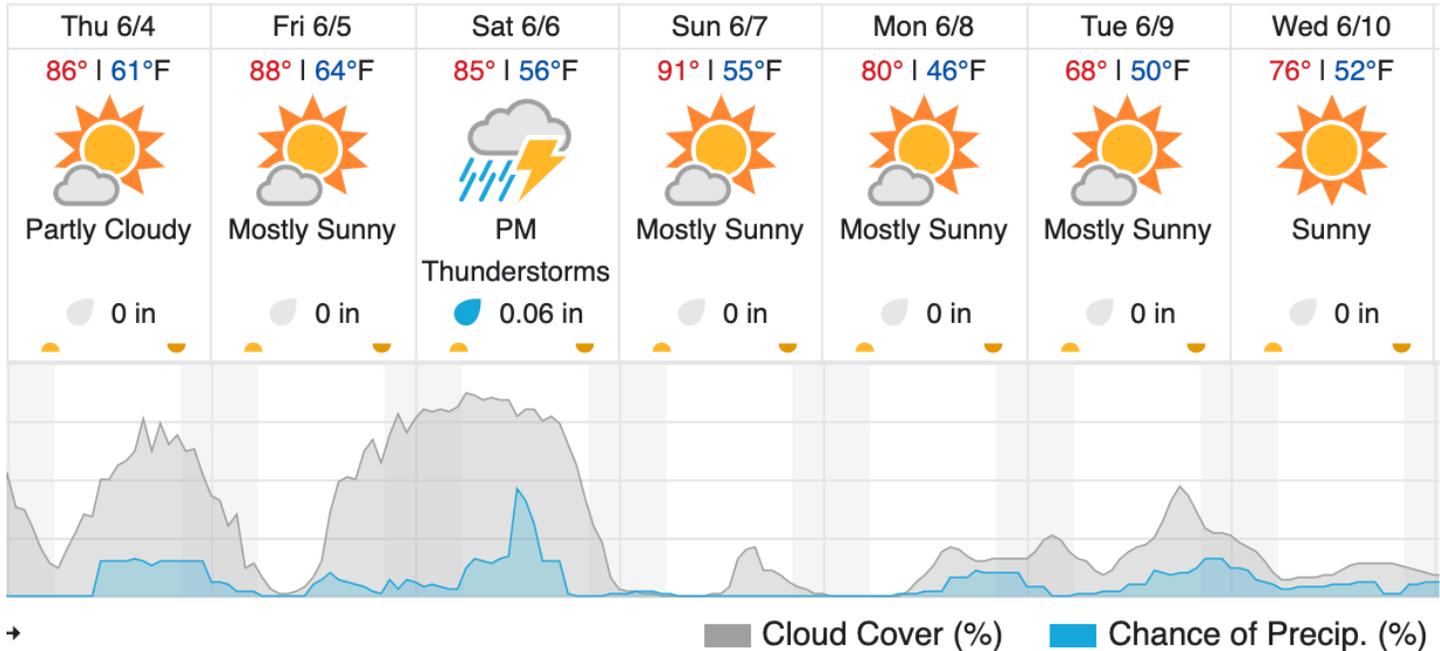
Pictures



Top: Both Otters landing at KBDU (photo via CChapman). Bottom: View of the Flatirons above Boulder (via MHaynes).



Weather Forecast



Flight collection plans for 04 June 2020:

Flyority 1

Collection Area: [Functional Checkout Flight] -- Nominal Runway Survey

Flight Plan Name: D10_N10D_Nominal_Rnwy_v8_Q780

On-Station Time: 15:00 UTC / 09:00L

Flyority 2

Collection Area: Boulder City Nominal Science Flight

Flight Plan Name: D10_V10C_East_v7_Q780 / D10_V10C_West_v7_Q780

On-Station Time: 18:00 UTC / 12:00L

Fright Crew:

Flight 1 (45mins -1hr of the Nominal Runway Flight Plan)

NIS – Mitch

Lidar- Elissa

Trainer—Cam

Ground – Nick

Flight 2 (45mins -1hr of the Boulder South Flight Plan)

NIS – Nick

Lidar – Cam

Trainer- Mitch

Ground – Elissa

Flight 3 (time permitting 45mins -1hr of the Boulder South Flight Plan)

NIS – Cam

Lidar –Nick

Trainer – Mitch

Ground -- Elissa