**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 it’s purpose today, with the P3 crew spending time working out a lot 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
Top: Both Otters landing at KBDU (photo via CChapman). Bottom: View of the Flatirons above Bouler (via MHaynes).
Weather Forecast

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<tr>
<th>Thu 6/4</th>
<th>Fri 6/5</th>
<th>Sat 6/6</th>
<th>Sun 6/7</th>
<th>Mon 6/8</th>
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<td>85°</td>
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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

Flight 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