Date: 2021-03-21
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N615AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 8

Report Author: Abe Morrison
Lidar Operators: Abe Morrison
Spectrometer Operators: Mitch Haynes
Pilots: Micah Hoogeveen, Justin Eddington
Adt'l Flight Crew: Cameron Chapman, Elissa Barris
Ground Crew: Nick Marusich
Flight Hours: 00:00
Hours until maintenance: 116.53

Summary
No flights were conducted today. The crew came into the hangar and concentrated on troubleshooting several issues identified over the last few training and calibration flights. The crew also conducted the mercury lamp test.

Concerns
- Tested importing new Training Flight Plans Tracker Projects in Snapshot. Plans imported correctly into the 2021_Campaign folder, but flight lines loaded in Snapshot for V10C flight plan still don’t match flight lines loaded on the Pilot Display. Incident appears to be isolated to just the V10C flight plan.
- Tested Midas computer’s failed boot issue in the hangar. Failed boots appear to occur directly following UPS being drained (i.e. tow outs), but boots fine after cycling power, even when UPS is still recharging.
- Camera QA is fixed and has now been re-run for all flights. NIS QA is the last remaining QA Check that has yet to be successfully completed for any flights. Alok and Andrew will begin troubleshooting tomorrow morning.

Comments
- Crew handoff occurring tomorrow
- Conducted Mercury Lamp
Daily Coverage

Estimated Cloud Cover Key

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

Cumulative Domain Coverage

D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
Flown: 0% (0/20)
Green: 0% (0/20)
Yellow: 0% (0/20)
Red: 0% (0/20)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

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Flown: 100% (4/4)
Green: 0% (0/4)
Yellow: 0% (0/4)
Red: 100% (4/4)

D00|N10D (Nominal Runway at KBDU - Riegl)

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Flown: 86% (24/28)
Green: 46% (13/28)
Yellow: 0% (0/28)
Red: 39% (11/28)

D00|O10B (NIS Offset - Riegl)

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

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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

D00|V10C (Boulder City South)

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Flown: 10% (3/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 10% (3/29)

D00|W10C (Wiggle Timing Test - Riegl)

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Flown: 100% (2/2)
Green: 100% (2/2)
Yellow: 0% (0/2)
Weather Forecast

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<td>42°F</td>
<td>40°F</td>
<td>48°F</td>
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Cloud Cover (%) | Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for 21 March 2021

Flyority 1
Collection Area: Table Mountain Radiometric Calibration – Boulder Airport
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
On-station Time: 1700 UTC / 1100 L
Additional Considerations: Ground should be dry.

Flyority 2
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780
On-station Time: 1600 UTC / 1000 L
Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
On-station Time: 1630 UTC / 1030 L

Flight Crew: John, Mike, Ivana, Robb, Matt