Date: 2020-08-20
Flight Campaign ID: P3C1
Airport, FBO ID, City: Rocky Mountain Metropolitan Airport (KBJC) - Broomfield, CO

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 27
Report Author: Cameron Chapman
Lidar Operators: Cameron Chapman
Spectrometer Operators: Mitch Haynes
Pilots: Mike Francis, Lane Taylor
Ground Crew: Cameron Chapman, Mitch Haynes

Flight Hours: 00:00
Hours until maintenance: 34.78
GPS Instruments: None

Summary
The crew used the day to catch up on a variety of tasks such as; extractions from D05, Hg Lamp test and assisted Ian from the AOP Lab with the installation of a new AXE in P3. We will relocate P3 operations from Broomfield to the PIF following flights tomorrow.

Concerns
- None

Comments
- Data from 2020081913 is being re-extracted to ensure the correct checksum files are on the disk.
- Completed the Hg Mercury lamp test
- Recertification of ASOs on P3 will begin tomorrow and continue into the weekend in conjunction with calibration and engineering flights.

Pictures
- None

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

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D00|CPER (Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER)

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D00|H10C (NEON Headquarters Lidar Test - Riegl)
Flown: 100% (2/2)
Green: 100% (2/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

D00|K10A (2000m Multiple Altitude Test Flight - CPER)

Flown: 0% (0/12)
Green: 0% (0/12)
Yellow: 0% (0/12)
Red: 0% (0/12)

D00|K10B (2000m Multiple Altitude Test Flight - RMNP)

Flown: 0% (0/12)
Green: 0% (0/12)
Yellow: 0% (0/12)
Red: 0% (0/12)

D00|N10D (Nominal Runway at KBDU - Riegl)

Flown: 92% (24/26)
Green: 0% (0/26)
Yellow: 62% (16/26)
Red: 31% (8/26)

D00|O10B (NIS Offset - Riegl)

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

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|RMNP (1000m Multiple Altitude Test Flight - RMNP)

Flown: 0% (0/38)
Green: 0% (0/38)
Yellow: 0% (0/38)
Red: 0% (0/38)

D00|V10C (Boulder City South)

Flown: 7% (2/29)
Green: 0% (0/29)
Yellow: 0% (0/29)
Red: 7% (2/29)
Flight Collection Plan for 21 August 2020

(Flight Order Priority subject to change)

**Flyority 1**
Collection Area: Satellite Overpass Coincident Collection & 1000m Multiple Altitude Test Flight - CPER
Flight Plan Name: D10_CPER_C1_P1_v6_Q780
On-station Time: 1000 – 1600 Local / 1600 – 2200 UTC

**Flyority 2**
Collection Area: 2000m Multiple Altitude Flight - CPER
Flight Plan Name: D10_K10A_Multiple_Alt_2000m_v1
On-station Time: 1000 – 1600 Local / 1600 – 2200 UTC

**Flyority 3**
Collection Area: 1000m Multiple Altitude Test Flight - RMNP
Flight Plan Name: D10_RMNP_R2_P1_v2_Q780
On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

**Flyority 4**
Collection Area: 2000m Multiple Altitude Flight - RMNP
Flight Plan Name: D10_K10B_Multiple_Alt_v2
On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

**Flyority 5**
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
On-station Time: 1000 – 1610 Local / 1600 – 2210 UTC

**Flyority 6**
Collection Area: Riegl Boresight Calibration at Greeley
Flight Plan Name: D10_B10E_Boresight_1600m_Q780

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Weather Forecast
Boulder, CO

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<th>Fri 8/21</th>
<th>Sat 8/22</th>
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<th>Mon 8/24</th>
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D00|W10C (Wiggle Timing Test - Riegl)
Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)
On-station Time: 0900 – 1700 Local / 1500 – 2300 UTC

**Flyority 7**
Collection Area: Nominal Runway
Flight Plan Name: D10_N10D_Nominal_Runway_v8_Q780

**Flyority 8**
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v5_Q780

**Flyority 9**
Collection Area: NEON HQ LIDAR Validation
Flight Plan Name: D10_H10C_HQ_val_v1_Q780

**Flyority 10**
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

On-station Time: 0930 – 1640 Local / 1530 – 2240 UTC

Crew: Cameron Chapman (trainer) Robb Walker (Lidar) Mitch Haynes (NIS) John Adler (Ground)