March 25, 2018 Payload 3 Daily Flight Report

Date: 03-25-18  
Flight Campaign ID: 2018_P3C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) – Boulder, CO

Domain: 10  
Sites Flown: None (Scheduled no fly day)  
Days left in Domain: 4

Report Author: Mitch Haynes  
Flight Crew: None  
Ground/GPS Crew: Mike Wussow  
Pilots: Stephen Brawders, Mike Francis  
Additional Personnel: None

GPS Instruments: None  
Flight Hours: 0.00  
Hours until aircraft maintenance: 111.82

Summary: Scheduled down day, no flights occurred.

New Faults: None

Ongoing Faults:
- RiAcquire - Received several ‘INS-GPS 1’ errors on RiAcquire during today’s flight that don’t look familiar (see screenshot below). Will investigate to see what these errors mean and why they’re being received.
- Hotel Kit 3 – SBET plots are failing to generate in QAQC. Extractions otherwise occurring properly.
- Grafana Dashboard – No Environmental Pressure and Humidity Readings being received, even after reset
- Database – Flight lines from Lidar logs not being placed in PDF logs, only CSV.
- Flight Plans – All 2018 Riegli flight plan kml’s do not load markers onto DCC software. Newly created flight plan kmls did not resolve the issue.
- Lidar – Error message on RiAcquire “LASER_HEARTBEAT_TIMEOUT_EXPIRED” and happened again on one of today’s lines. Believed to be related to lost connection with scanner.
- Flight Disks - MIDAS disks from Disk Set 2 were not recognized by MIDAS computer during system startup on 3/21/18. Disk set has been removed from rotation till issue is resolved.
- Lidar – Remote Desktop to RiAcquire lost connection several times in-flight. Issue is believed to be isolated to the Ethernet connection. New Ethernet cable attached on 2018-03-22, but same issues occurred. On today’s flight 2018032414, several lost connections occurred for the Remote Desktop to both RiAcquire and Tracker snapSHOT, which effected the pilot display. Issue will continue to be monitored.
- Spectrometer – Shutter on NIS not closed at request of the lab manager due to a known malfunction

Resolved Faults: None
Other Issues & Concerns: None

Comments: Today FltOps and AOP celebrated the coming birth of future mountain wave rider Ariana Chapman. Congratulations and special thanks for hosting to the expecting parents, Cameron and Rain.

Daily Domain Coverage: N/A

Cumulative Domain Coverage:
Calibration Flights Completed: Nominal Runway Survey, NEON HQ Lidar Validation, Greeley Boresight, Wiggle Timing Test
Not Complete: Table Mountain Radiometric, NIS Offset Flight

Weather Forecast:

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Flight Collection Plan for 26 March 2018
Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C.Rad_Cal_TMBT_v1_Q780.rpp
On Station Time: 1740 Local / 1140 UTC (45°)
Flyority 2
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B.NIS_Offset_v2.Q780.rpp
On Station Time: 1700 Local / 1100 UTC (40°)
Flyority 3
Collection Area: Greeley Boresight Calibration (re-fly if Green)
Flight Plan Name: D10_B10D.Boresight_Apx.Q780.rpp
On Station Time: 1550 Local / 0950 UTC (30°)

Crew: Mike Wussow (Lidar), Mitch Haynes (Trainer), Robb Walker (NIS), Ivana Vu (Ground)