



## March 26, 2018 Payload 3 Daily Flight Report



**Date:** 03-26-18

**Flight Campaign ID:** 2018\_P3C1

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

**Domain:** 10

**Sites Flown:** None

**Days left in Domain:** 3

**Report Author:** Michael Wussow

**Flight Crew:** None

**Ground/GPS Crew:** Ivana Vu

**Pilots:** Stephen Brawders, Mike Francis

**Additional Personnel:** None

**GPS Instruments:** None

**Flight Hours:** 0.00

**Hours until aircraft maintenance:** 111.82

**Summary:** Due to low clouds and wet conditions, 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 Riegl 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:** None

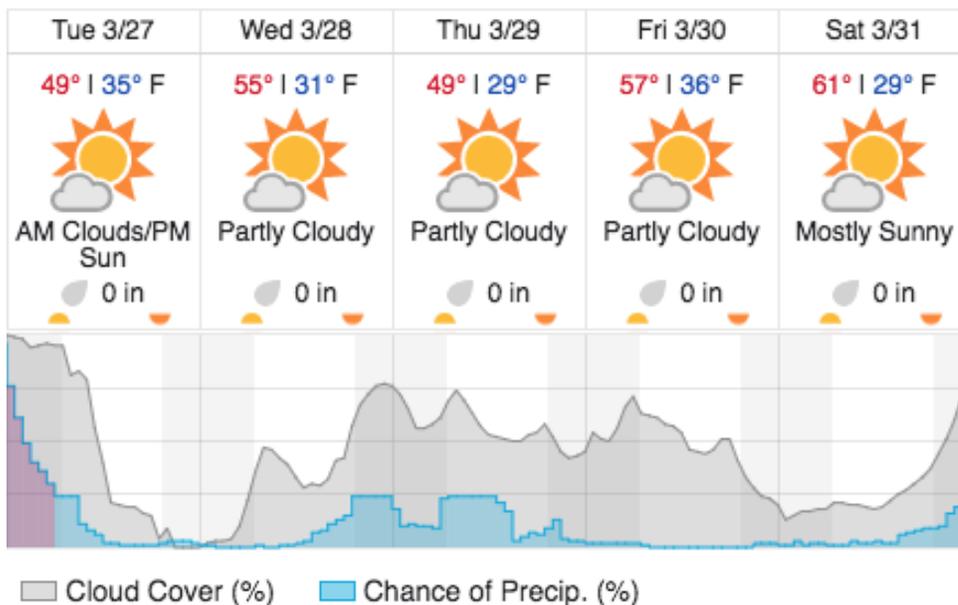
**Daily Domain Coverage:** N/A

**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:**



**Flight Collection Plan for 27 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: Ivana Vu (Lidar), Mitch Haynes (Trainer), Robb Walker (NIS), John Adler (Ground), Abe (Ground Certifier)