May 11, 2019 Payload 3 Daily Flight Report

Date: 2019-05-11
Flight Campaign ID: 2019_P3C1
Airport, FBO ID, City: Salt Lake City International Airport (KSLC) - Salt Lake City, UT

Domain: 15
Sites Flown: ONAQ (Onaqui-Ault)
Days left in Domain: 2

Report Author: Nick Marusich
Flight Crew: Nick Marusich, Mitch Haynes
Ground/GPS: John Adler
Pilots: Jeff Quintanilla, Stephen Brawders
Additional Personnel: Abe Morrison
GPS Instruments: C-ZLC1, U-P016

Flight Hours: 03:09
Hours until maintenance: 71.35

Summary
17 lines were collected today at ONAQ under green conditions before cloud build up prevented further collection. With clear skies forecast tomorrow, the team will attempt completing ONAQ before shifting focus to Railroad Valley and Lunar Lake calibration flights.

Concerns
- Pilot display appeared to lag between lines. Pilots assess the display lads in turns.

Comments
- Ivana Vu rotated out to install GPS at D17 and D16. John Adler rotated in.

Flight Screenshots
Western area of ONAQ box.

### Daily Coverage

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Flown: 18
Cumulative Domain Coverage

**ONAQ**

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Flown: 62% (26/42)
Green: 55% (23/42)
Yellow: 10% (4/42)
Red: 0% (0/42)

**REDB**

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Flown: 95% (18/19)
Green: 0% (0/19)
Yellow: 53% (10/19)
Red: 42% (8/19)

**Weather Forecast**

**Salt Lake, UT**

**Sun 5/12**
- 77° | 54° F
- Sunny
- 0 in

**Mon 5/13**
- 82° | 56° F
- Mostly Sunny
- 0 in

**Tonopah, NV**

**Sun 5/12**
- 78° | 48° F
- Sunny
- 0 in

**Mon 5/13**
- 78° | 49° F
- Mostly Sunny
- 5 AM in

**Flight Collection Plan for 12 May 2019**

**Flyority 1**
Collection Area: Onaqui-Ault (ONAQ)
Flight Plan Name: D15_ONAQ_C1_P1_vs_Q780
On-station Time: 1600 UTC / 1000 L

**Flyority 2**
Collection Area: Radiometric Calibration at Railroad Valley (RRVY) / Lidar Uncertainty Test at Lunar Lake (LNLK)
Flight Plan Name: D15_R15B_Radiometric_Calibration_RRVY_v3_Q780 / D15_LNLK_Lidar_Unc_Tst_v2_Q780
On-station Time: 1640 UTC / 0940 L
Flyority 3
Collection Area: Red Butte (REDB)
Flight Plan Name: D15_REDB_A1_P1_v2_Q780
On-station Time: 1600 UTC / 1000 L

Crew: John Adler (Lidar), Nick Marusich (NIS), Mitch Haynes (GPS)
Field Science Team (RRVY and LNLK): Bridget Hass, David Hulslander

Flight Collection Plan for 13 May 2019

Flyority: Same as previous day
Crew: Nick Marusich (Lidar), John Adler (NIS/Ground)
Field Science Team (RRVY and LNLK): Bridget Hass, David Hulslander