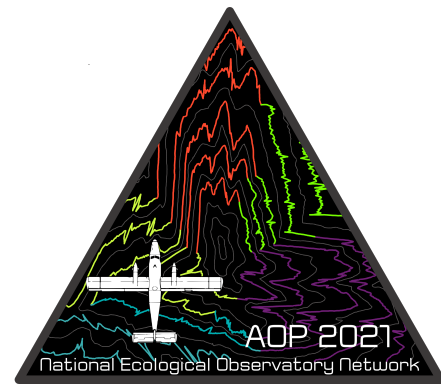




Payload 3 Daily Flight Report



**Date:** 2021-05-18  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Salt Lake City International Airport (KSLC) - Salt Lake City, UT  
**Aircraft:** N615AR

**Domain:** 15 (Great Basin)  
**Sites Flown:** ONAQ (Onaqui-Ault )  
**Days left in Domain:** 5

**Report Author:** Mitch Haynes  
**Lidar Operators:** Mitch Haynes  
**Spectrometer Operators:** John Adler  
**Pilots:** Stephen Brawders, Vince Maarschalkerweerd

**Flight Hours:** 02:48  
**Hours until maintenance:** 32.18  
**GPS Instruments:** C-ZLC1, U-P016

**Summary**

A high stratocirrus layer over the region this morning eventually moved out, allowing for a brief window of clear skies before building cumulus clouds interfered with collects. 14 total lines were collected over Onaqui, 4 of which were green.

**Concerns**

None

**Comments**

None

**Daily Coverage**

Estimated Cloud Cover Key

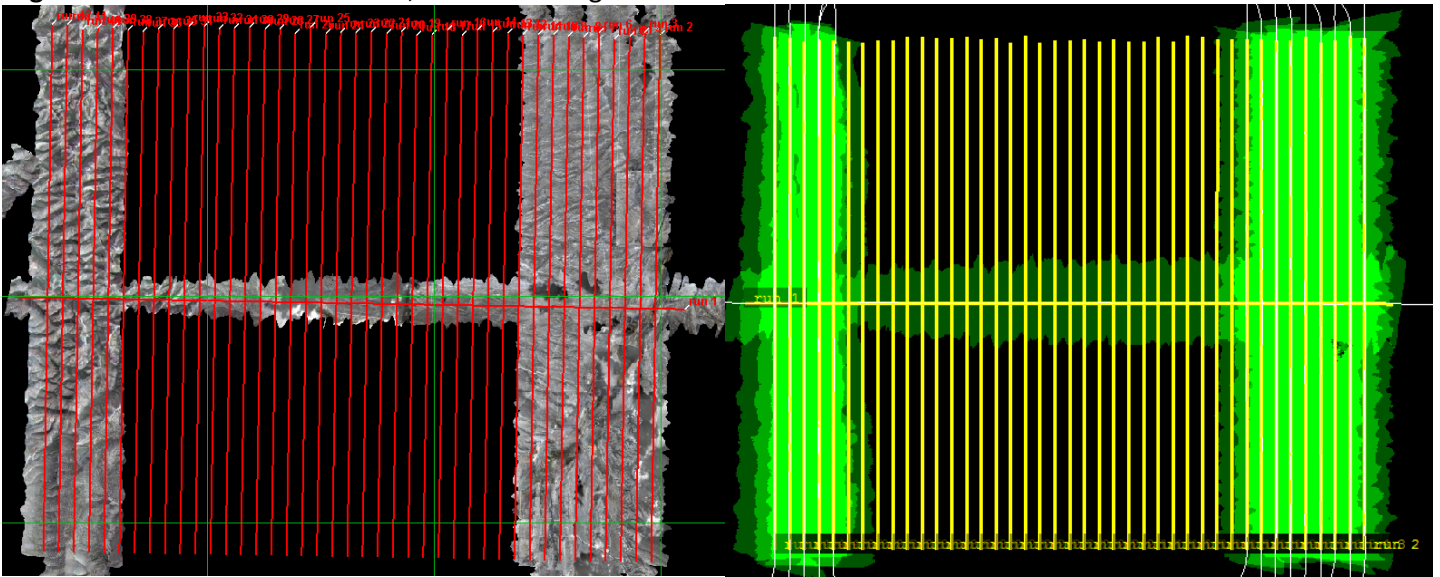
|        |         |      |
|--------|---------|------|
| Green: | Yellow: | Red: |
| 0-10%  | 11-50%  | >50% |

D15|ONAQ

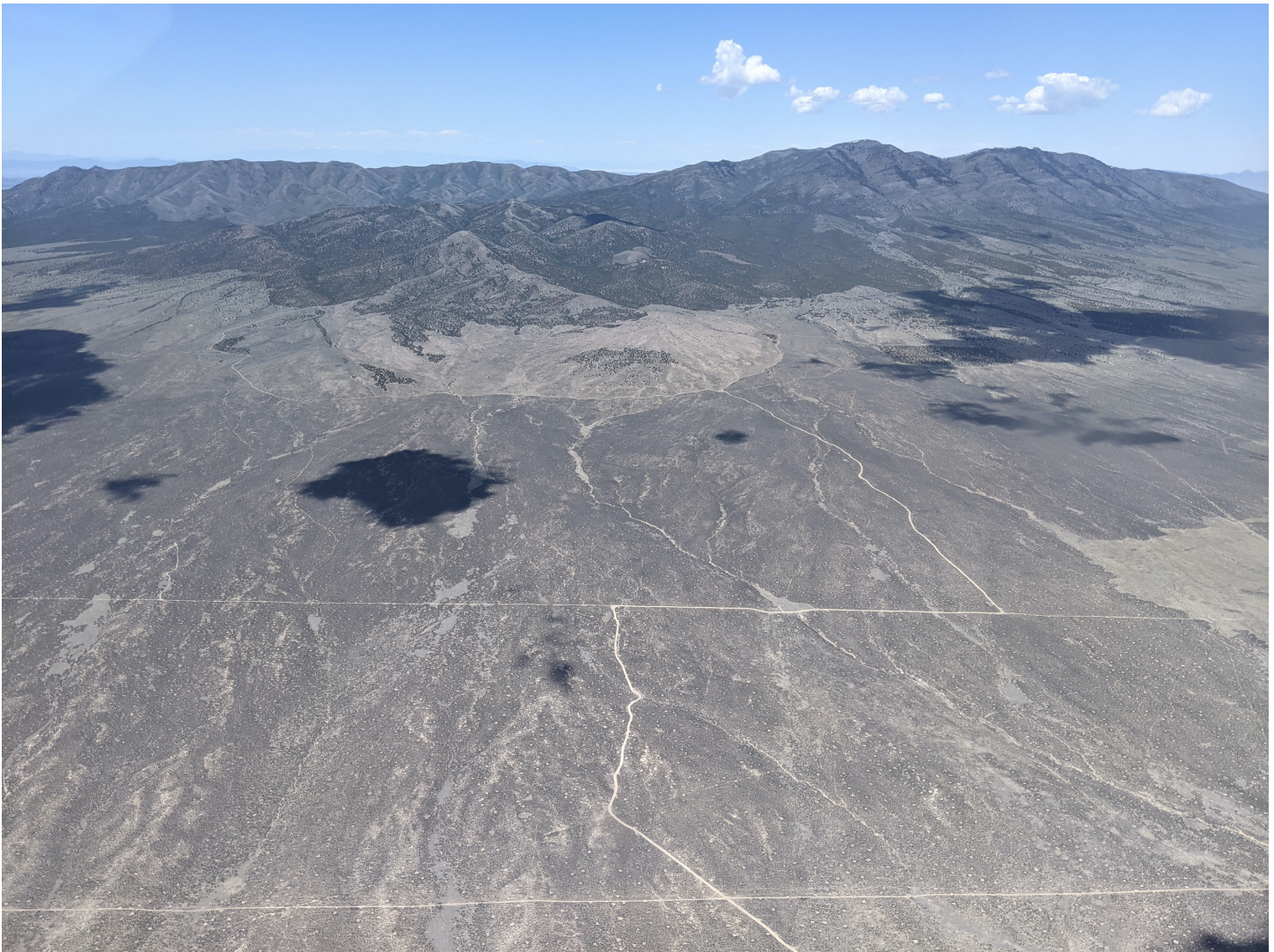
| Line #       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 38 | 39 | 40 | 41 | 42 |
|--------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| Lidar        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Spectrometer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Camera       | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Cloud Cover  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

Total number of lines flown: 14

Flight Screenshots: NIS on the left, Lidar on the right



Pictures



Above: Looking west across the Onaqui flight box; building cumulus clouds prevented us from collecting more lines under green, clear sky conditions.

## Cumulative Domain Coverage

### D15|ONAQ (Onaqui-Ault)

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Flown: 69% (29/42)

Green: 43% (18/42)

Yellow: 17% (7/42)

Red: 10% (4/42)

### D15|REDB (Red Butte)

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|

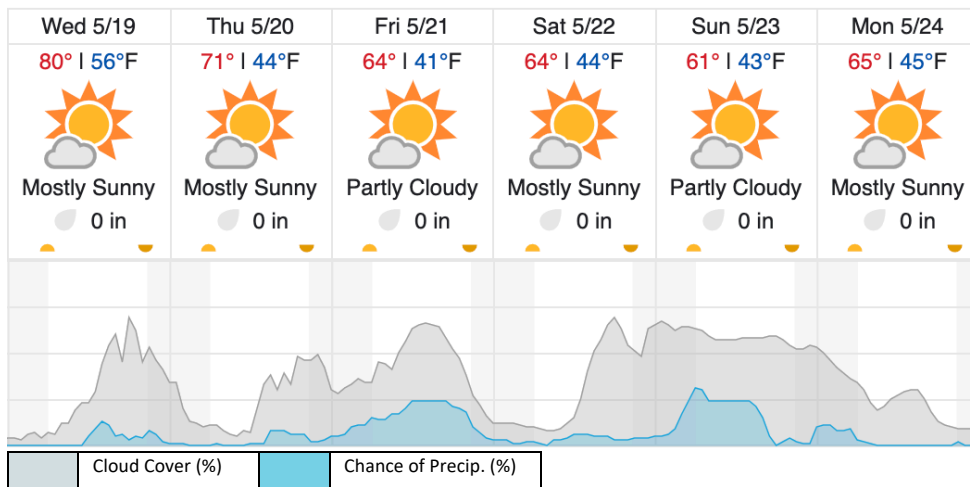
Flown: 0% (0/19)

Green: 0% (0/19)

Yellow: 0% (0/19)

Red: 0% (0/19)

## Weather Forecast



source: wunderground.com

## Flight Collection Plan for 19 May 2021

### Flyority 1

Collection Area: Onaqui (ONAQ)

Flight Plan Name: D15\_ONAQ\_C1\_P1\_v3\_Q780

On-station Time: 1600 UTC / 1000 L

### Flyority 2

Collection Area: Red Butte (REDB)

Flight Plan Name: D15\_REDB\_A1\_P1\_v2\_Q780

On-station Time: 1550 UTC / 0950 L

Flight Crew: John, Mitch