Payload 3 Daily Flight Report

Date: 2021-05-13
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)
Days left in Domain: 11

Report Author: John Adler
Lidar Operators: John Adler
Spectrometer Operators: Mitch Haynes
Pilots: Stephen Brawders, Vince Maarschalkerweerd
Flight Hours: 02:42
Hours until maintenance: 34.98
GPS Instruments: C-ZLC1, U-P016

Summary: Weather allowed us to collect over the Airshed priority lines (11-23) before clouds started to form. After conditions changed to yellow, we returned to base.

Concerns: Lidar Disc Set 1 again did was not recognized by the computer at the end of the flight, it would not write the POS files. POS files were copied to a USB disc, and then transferred back to the disc when it was in the HotelKit. Interesting that we somehow loose connectivity, yet the disc seems okay. But additionally, the system had trouble even writing POS file #33 (see screenshot) even to the USB drive. It would say it was copied, but it would not actually copy.

Comments: Removing Disc Set 1 from rotation as a precaution.
Daily Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
</tr>
</thead>
</table>

D15|ONAQ

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
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<tbody>
<tr>
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<td>Spectrometer</td>
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<tr>
<td>Cloud Cover</td>
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Total number of lines flown: 15

Flight Screenshots

Lidar screenshot

Pictures

Interesting explosive activity at the gunnery range
Cumulative Domain Coverage

D15|ONAQ (Onaqui)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |

Flown: 36% (15/42)  
Green: 31% (13/42)  
Yellow: 5% (2/42)  
Red: 0% (0/42)

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: Salt Lake City

<table>
<thead>
<tr>
<th>Fri 5/14</th>
<th>Sat 5/15</th>
<th>Sun 5/16</th>
<th>Mon 5/17</th>
<th>Tue 5/18</th>
<th>Wed 5/19</th>
<th>Thu 5/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>82°F</td>
<td>59°F</td>
<td>80°F</td>
<td>55°F</td>
<td>76°F</td>
<td>54°F</td>
<td>80°F</td>
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Cloud Cover (%)  
Chance of Precip. (%)  
source: wunderground.com

Flight Collection Plan for 14 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: 1600 UTC / 1000 L

Flight Crew: Mitch lidar, John NIS