Date: 2022-09-08
Flight Campaign ID: P1C1
Airport, FBO ID, City: Tucson International Airport - Tucson, AZ
Aircraft: N331AR

Domain: 14 (Desert Southwest)
Sites Flown: None
Days left in Domain: 3

Report Author: Elissa
Lidar Operators: Elissa  Flight Hours: 00:00
Spectrometer Operators: Abe  Hours until maintenance: 18.33
Pilots: Magnus, Steven

Summary
No flights were planned for today. A maintenance team from Twin Otter arrived this afternoon to begin scheduled maintenance, which will be complete by the end of the day tomorrow. The next eligible flight day is Saturday, September 10.

Concerns
None.

Comments
Progress continues to be made on the D14 extractions and QAs, thanks to a lot of very effective tinkering by Andrew, Bridget, and Kris.

Extractions completed:
- 2022082915
- 2022083015
- 2022083115
- 2022090413
- 2022090512

Extractions remaining:
- 2022090615
- 2022090715
Cumulative Domain 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>

D14|JORN_P1 (Jornada Priority 1)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
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<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
</table>

Flown: 100% (34/34)
Green: 100% (34/34)
Yellow: 0% (0/34)
Red: 0% (0/34)

D14|JORN_P2 (Jornada Priority 2)

<table>
<thead>
<tr>
<th>35</th>
<th>36</th>
<th>37</th>
<th>38</th>
<th>39</th>
<th>40</th>
<th>41</th>
<th>42</th>
<th>43</th>
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<th>46</th>
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<th>48</th>
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<th>50</th>
<th>51</th>
<th>52</th>
<th>53</th>
<th>54</th>
</tr>
</thead>
</table>

Flown: 100% (21/21)
Green: 43% (9/21)
Yellow: 57% (12/21)
Red: 0% (0/21)

D14|N14A (D14 Nominal Runway)

<table>
<thead>
<tr>
<th>1</th>
</tr>
</thead>
</table>

Flown: 0% (0/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 0% (0/1)

D14|SRER_P1 (Santa Rita Experimental Range Priority 1)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
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<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
</table>

Flown: 100% (40/40)
Green: 98% (39/40)
Yellow: 2% (1/40)
Red: 0% (0/40)

D14|SRER_P2 (Santa Rita Experimental Range Priority 2)

<table>
<thead>
<tr>
<th>41</th>
<th>42</th>
<th>43</th>
<th>44</th>
<th>45</th>
<th>46</th>
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<th>57</th>
<th>58</th>
<th>59</th>
<th>60</th>
</tr>
</thead>
</table>

Flown: 100% (24/24)
Green: 100% (24/24)
Yellow: 0% (0/24)
Red: 0% (0/24)

D14|SRER_P3 (Santa Rita Experimental Range Priority 3)

<table>
<thead>
<tr>
<th>65</th>
<th>66</th>
<th>67</th>
<th>68</th>
<th>69</th>
<th>70</th>
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<th>80</th>
<th>81</th>
<th>82</th>
<th>83</th>
<th>84</th>
</tr>
</thead>
</table>

Flown: 85% (22/26)
Green: 15% (4/26)
Yellow: 0% (0/26)
Red: 69% (18/26)

*Lines 89 and 90 were flown but will be re-flown for better data quality if time allows
Weather Forecast

Tucson, AZ (KTUS, SRER)

<table>
<thead>
<tr>
<th>Date</th>
<th>Cloud Cover (%)</th>
<th>Chance of Precip. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri 9/9</td>
<td>PM</td>
<td>0.08 in</td>
</tr>
<tr>
<td>Sat 9/10</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Sun 9/11</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Mon 9/12</td>
<td>PM</td>
<td>0.14 in</td>
</tr>
</tbody>
</table>

Hatch, NM (JORN)

<table>
<thead>
<tr>
<th>Date</th>
<th>Cloud Cover (%)</th>
<th>Chance of Precip. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri 9/9</td>
<td>Cloudy</td>
<td>0 in</td>
</tr>
<tr>
<td>Sat 9/10</td>
<td>Mostly Sunny</td>
<td>0 in</td>
</tr>
<tr>
<td>Sun 9/11</td>
<td>Partly Cloudy</td>
<td>0.04 in</td>
</tr>
<tr>
<td>Mon 9/12</td>
<td>Partly Cloudy</td>
<td>0 in</td>
</tr>
</tbody>
</table>

source: wunderground.com

Flight Collection Plan for 9 September 2022

TOIL Maintenance; No flights planned.

Crew: Elissa, Abe

Flight Collection Plan for 10 September 2022

Flyority 1
Collection Area: Santa Rita Experimental Range (SRER) – Priority 3 Box
Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml
40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 2 (if green)
Collection Area: Jornada (JORN) – Priority 2 Flight Box
Flight Plan Name: D14_JORN_R1_P1_v5_PRM.xml
35° On-station Time: 15:40 UTC / 09:40 MDT / 8:40 MST

Crew: Cam, Abe