# August 27, 2018 Payload 3 Daily Flight Report

**Date**: 2018-08-27
**Flight Campaign ID**: 2018_P3C1
**Airport, FBO ID, City**: Tucson International Airport (KTUS) - Tucson, AZ

**Domain**: 14
**Sites Flown**: SRER_P1 (Santa Rita Experimental Range Priority 1 ), SRER_P2 (Santa Rita Experimental Range Priority 2)
**Days left in Domain**: 5

**Report Author**: Robb Walker
**Flight Crew**: Robb Walker, Mitch Haynes
**Ground/GPS**: Abe Morrison
**Pilots**: Stephen Brawders, Hans Germann
**Additional Personnel**:
**GPS Instruments**: 11 - FBO_KTUS, 12 - SRER

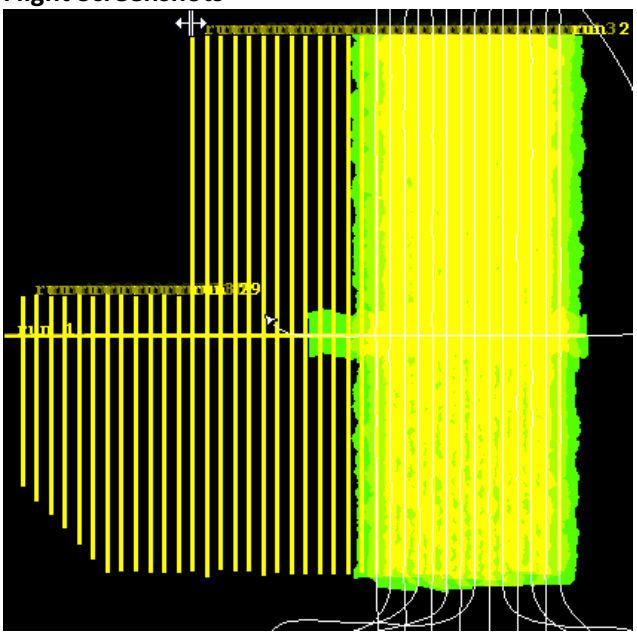
**Flight Hours**: 03:59
**Hours until maintenance**: 105.95

**Summary**
Clearer skies this morning allowed the Otter to take to the skies and collect some green data over SRER P1 flight box. As cumulus clouds began to build, flight collection was shifted to SRER P2 to add to initial coverage.

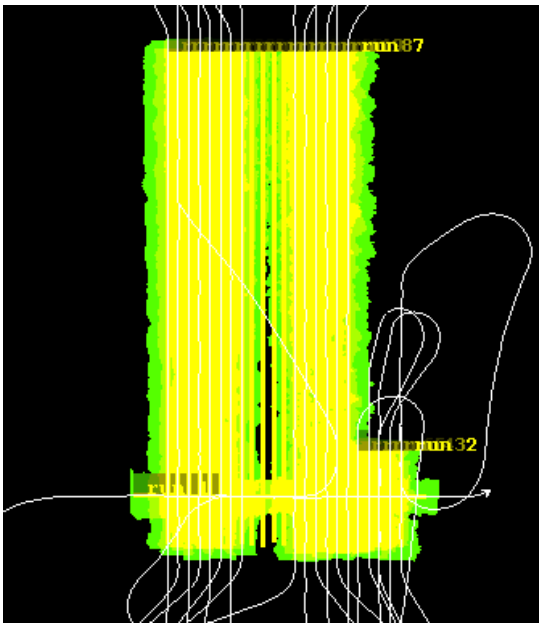
**Concerns**
None

**Comments**
-UNAVCO RG07 GPS station is back in service thanks to Abe Morrison and Katie Mattheisen from D14 Domain office. Flight attempts at JORN can now resume.

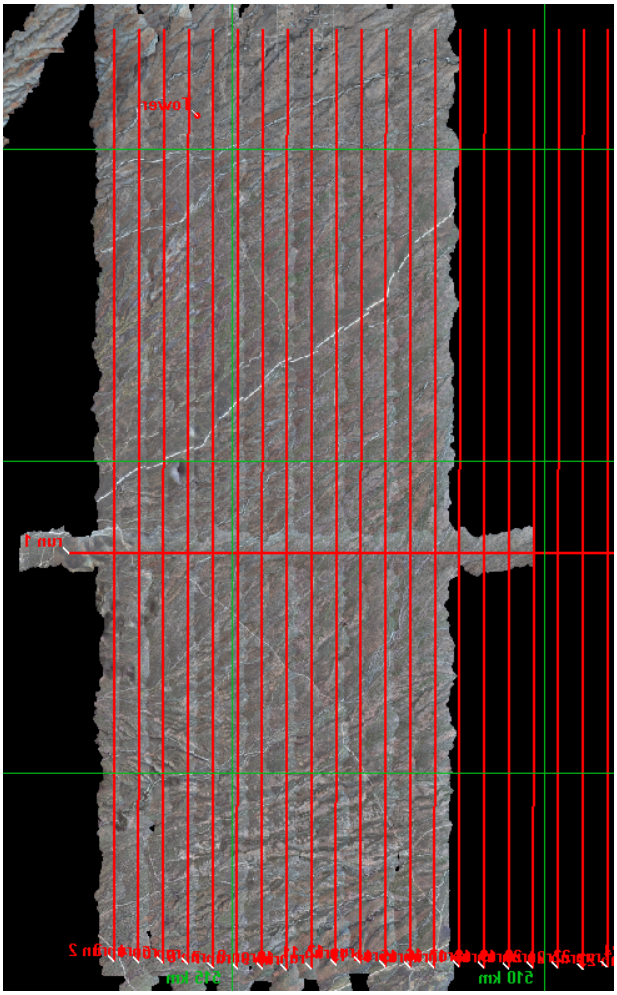
**Flight Screenshots**



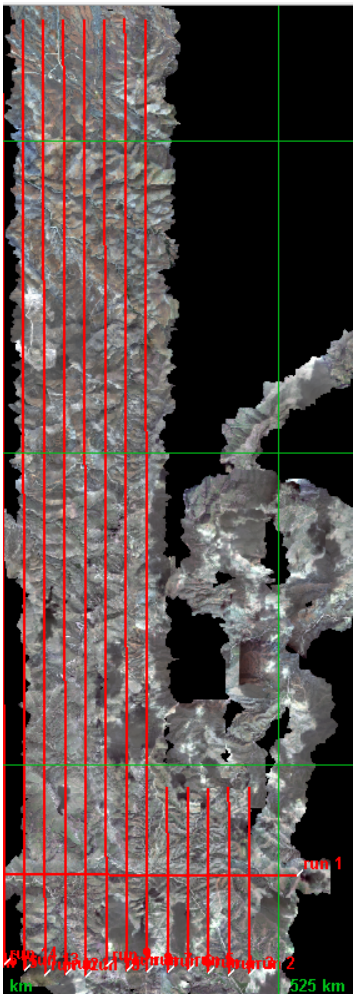
Lidar SRER P1



Lidar SRER P2



NIS SRER P1



NIS SRER P2

**Pictures**

Clouds beginning to build over SRER.

ASO Abe Morrison reviving RG07.

**Daily Coverage**

| D14\|SRER_P1 | Line | SpecG | SpecY | SpecR | NIS | Lidar | Camera | Cumulative |
|---|---|---|---|---|---|---|---|---|
| | 1 | | | | ✓ | ✓ | ✓ | NLC |
| | 2 | | | | ✓ | ✓ | ✓ | NLC |
| | 3 | | | | ✓ | ✓ | ✓ | NLC |
| | 4 | | | | ✓ | ✓ | ✓ | NLC |
| | 5 | | | | ✓ | ✓ | ✓ | NLC |
| | 6 | | | | ✓ | ✓ | ✓ | NLC |
| | 7 | | | | ✓ | ✓ | ✓ | NLC |
| | 8 | | | | ✓ | ✓ | ✓ | NLC |
| | 9 | | | | ✓ | ✓ | ✓ | NLC |
| | 10 | | | | ✓ | ✓ | ✓ | NLC |
| | 11 | | | | ✓ | ✓ | ✓ | NLC |
| | 12 | | | | ✓ | ✓ | ✓ | NLC |
| | 13 | | | | ✓ | ✓ | ✓ | NLC |
| | 14 | | | | ✓ | ✓ | ✓ | NLC |
| | 15 | | | | ✓ | ✓ | ✓ | NLC |
| Flown: | 15 | | | | | | | |
| D14\|SRER_P2 | Line | SpecG | SpecY | SpecR | NIS | Lidar | Camera | Cumulative |
| | 1 | | | | ✓ | ✓ | ✓ | NLC |
| | 2 | | | | ✓ | ✓ | ✓ | NLC |
| | 3 | | | | ✓ | ✓ | ✓ | NLC |
| | 4 | | | | ✓ | ✓ | ✓ | NLC |
| | 5 | | | | ✓ | ✓ | ✓ | NLC |
| | 6 | | | | ✓ | ✓ | ✓ | NLC |
| | 7 | | | | ✓ | ✓ | ✓ | NLC |
| | 8 | | | | ✓ | ✓ | ✓ | NLC |
| | 9 | | | | ✓ | ✓ | ✓ | NLC |
| | 10 | | | | ✓ | ✕ | ✓ | NC |
| | 11 | | | | ✓ | ✓ | ✓ | NLC |
| | 12 | | | | ✓ | ✓ | ✓ | NLC |
| Flown: | 12 | | | | | | | |

**Cumulative Domain Coverage**

**JORN_P1**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | |

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

**JORN_P2**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | | | | | | | | | | | | | | | | | | | |

Flown: 0% (0/21)
Green: 0% (0/21)
Yellow: 0% (0/21)
Red: 0% (0/21)

**SRER_P1**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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: 38% (15/40)
Green: 35% (14/40)
Yellow: 2% (1/40)
Red: 0% (0/40)

**SRER_P2**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | |

Flown: 83% (20/24)
Green: 0% (0/24)
Yellow: 25% (6/24)
Red: 62% (15/24)

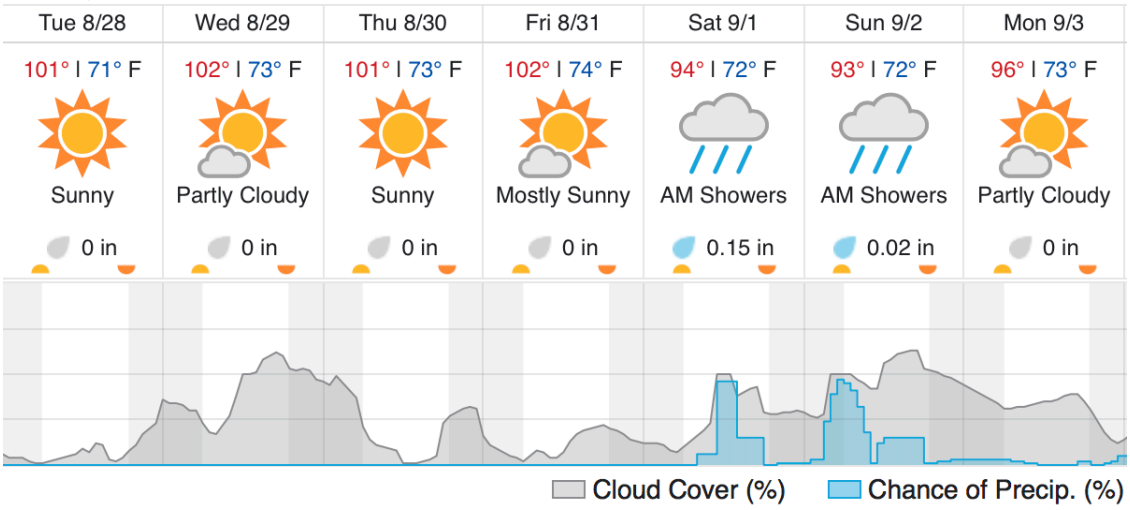
**SRER_P3**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | | | | | | | | | |

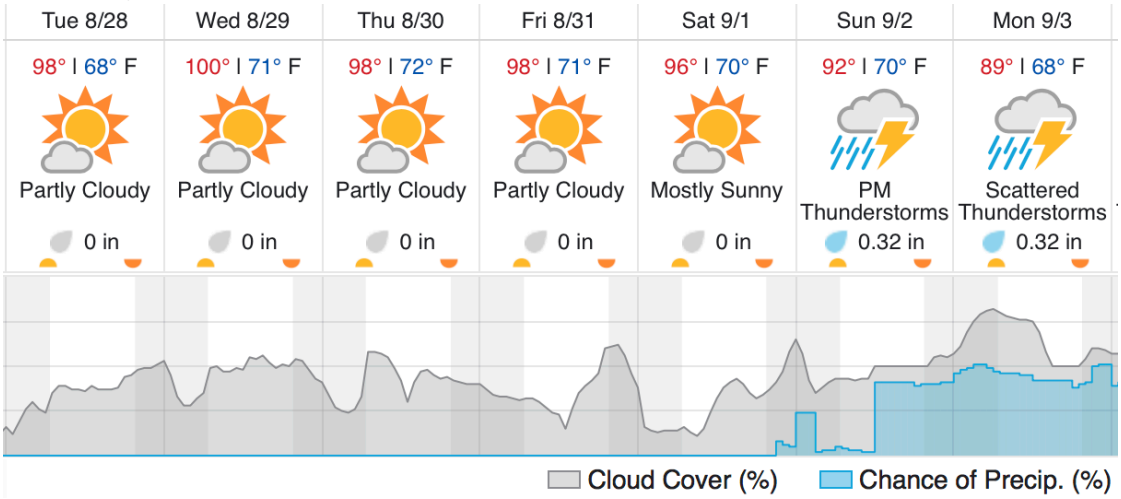
Flown: 0% (0/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 0% (0/26)

**Weather Forecast**

Tucson, AZ




Las Cruces, NM



**Flight Collection Plan for 28 August 2018**

**Flyority 1** (Flight Priority 1): ***Lines 16-40***
Collection Area: Santa Rita Experimental Range (SRER) – Priority 1 Flight Box
Flight Plan Name: D14_SRER_C1_P1_v4_Q780
On-Station Time: 16:10 UTC / 09:10 L

**Flyority 2** (Flight Priority 2): ***Lines 13-16 and 1-12, 17-24 if Green Sky Conditions***
Collection Area: Santa Rita Experimental Range (SRER) – Priority 2 Flight Box
Flight Plan Name: D14_SRER_C1_P2_v4_Q780
On-Station Time: 16:10 UTC / 09:10 L

**Flyority 3** (Flight Priority 3):
Collection Area: Santa Rita Experimental Range (SRER) – Priority 3 Flight Box
Flight Plan Name: D14_SRER_C1_P3_v4_Q780
On-Station Time: 16:10 UTC / 09:10 L

**Flyority 4** (Flight Priority 4):
Collection Area: Jornada (JORN) – Priority 1 Flight Box
Flight Plan Name: D14_JORN_R1_P1_v3_Q780
On-Station Time: 16:00 UTC / 10:00 L

**Flyority 5** (Flight Priority 5):
Collection Area: Jornada (JORN) – Priority 2 Flight Box
Flight Plan Name: D14_JORN_R1_P2_v1_Q780
On-Station Time: 16:00 UTC / 10:00 L

Crew: Mitch Haynes (Lidar), Robb Walker (NIS), Abe Morrison (Ground)