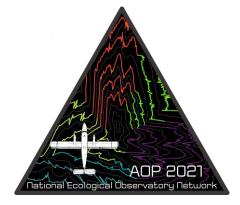


## Payload 3 Daily Flight Report



Date: 2021-09-07

Flight Campaign ID: P3C1

Airport, FBO ID, City: Tucson International Airport (KTUS) - Tucson, AZ

Aircraft: N615AR

**Domain**: 14 (Desert Southwest)

Sites Flown: SRER\_P2 (Santa Rita Experimental Range Priority 2), SRER\_P3 (Santa Rita Experimental Range Priority 3)

Days left in Domain: 3

Report Author: Abe Morrison

Spectrometer Operators: Matt Devoe Hours until maintenance: 33.88

**Pilots**: Scott Hayward, Will Mathews **GPS Instruments**: 06 - KTUS, AOP\_SRER

#### **Summary**

Clear skies over the SRER flight box today allowed the crew to finish the P2 and P3 lines in "green" sky conditions. 26 lines were completed in the P3 area, and 6 in the P2 area. Sole focus will now be on finishing the Jornada P2 box. The forecast looks favorable for a JORN flight on Thursday or Friday.

#### Concerns

None

#### **Comments**

None

## **Daily Coverage**

#### **Estimated Cloud Cover Key**

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

## D14|SRER P3

DITIONEN_I 3																				
Line #	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
Lidar		<b>√</b>	<b>√</b>	>	>	>	>	>	>	>	>	>	✓	>	>	>	<b>√</b>	>	>	✓
Spectrometer	<b>✓</b>	✓	✓	<b>\</b>	<b>\</b>	<b>\</b>	<b>✓</b>	<b>\</b>	<b>\</b>	<b>/</b>	<b>\</b>	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>\</b>	<b>\</b>	✓
Camera		✓	✓	<b>✓</b>	<b>\</b>	<b>✓</b>	✓	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	✓	<b>✓</b>	✓
Cloud Cover																				

Line #	85	86	87	88	89	90
Lidar	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
Spectrometer	✓	✓	<b>√</b>	✓	<b>√</b>	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

Total number of lines flown: 26

# D14|SRER\_P2

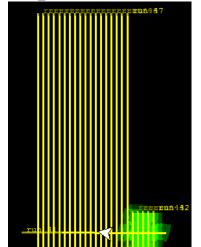
Line #	42	43	44	45	46
Lidar	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>
Spectrometer	<b>√</b>	<b>√</b>	<b>√</b>	✓	<b>√</b>
Camera	✓	✓	✓	✓	✓
Cloud Cover					

Total number of lines flown: 5

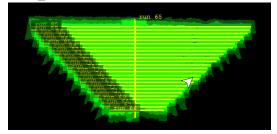
## **Flight Screenshots**

Lidar

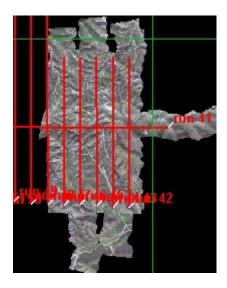
SRER\_P2

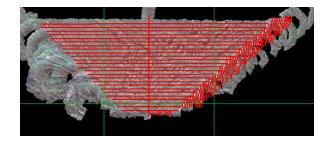






NIS





#### **Cumulative Domain Coverage**

D14|JORN P1 (Jornada Priority 1)

			١			<u>, , , , , , , , , , , , , , , , , , , </u>													
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: 100% (34/34) Green: 100% (34/34) Yellow: 0% (0/34) Red: 0% (0/34)

#### D14|JORN P2 (Jornada Priority 2)

1	• • • • • • • • • • • • • • • • • • • •		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			~, -,													
35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
55																			

Flown: 14% (3/21) Green: 10% (2/21) Yellow: 5% (1/21) Red: 0% (0/21)

## D14|SRER\_P1 (Santa Rita Experimental Range Priority 1)

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

Flown: 100% (40/40) Green: 100% (40/40) Yellow: 0% (0/40) Red: 0% (0/40)

## D14 | SRER\_P2 (Santa Rita Experimental Range Priority 2)

/11	12	12	11	15	16	17	10	40	ΕO	<u></u>	F 2	E2	54	<b>E E</b>	E6	E7	EO	EΩ	60
41	42	43	44	43	40	47	40	43	30	21	32	23	34	23	30	37	20	33	00
61	62	63	64																

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)

			`																
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90														

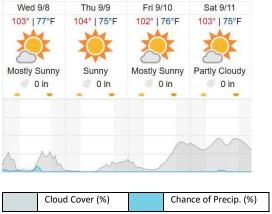
Flown: 100% (26/26) Green: 100% (26/26) Yellow: 0% (0/26) Red: 0% (0/26)

#### **Weather Forecast**

## Hatch, NM (JORN)



## Tucson, AZ



source: wunderground.com

## Flight Collection Plan for 8 September 2021

Flyority 1

Collection Area: Jornada (JORN) – Priority 2 Flight Box

Lines 38-55

Flight Plan Name: D14\_JORN\_R1\_P2\_v4\_Q780

On-station Time: 16:10 UTC / 10:10 L

Crew: Abe and Matt