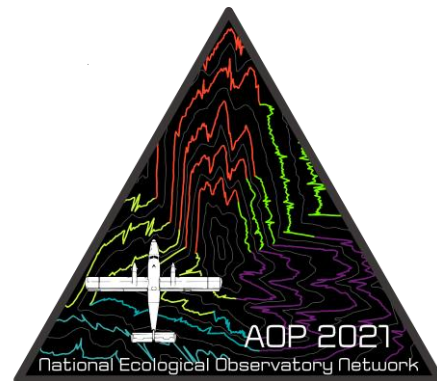




Payload 3 Daily Flight Report



Date: 2021-08-24

Flight Campaign ID: P3C1

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

Aircraft: N615AR

Domain: 14 (Desert Southwest)

Sites Flown: SRER_P1 (Santa Rita Experimental Range Priority 1), SRER_P2 (Santa Rita Experimental Range Priority 2)

Days left in Domain: 15

Report Author: Abe Morrison

Lidar Operators: Abe Morrison

Spectrometer Operators: Elissa Barris

Pilots: Vince Maarschalkerweerd, Stephen Brawders

Flight Hours: 03:57

Hours until maintenance: 55.12

GPS Instruments: 06 - KTUS, AOP_SRER

Summary

Another sunny and clear morning here in Tucson! The crew was able to again take to the air and collect in "green" sky conditions today. 13 lines were flown in the SRER P1 box and 19 lines in the P2 box.

Concerns

-HK3 seems to be having a raid issue. HQ staff is on top of the issue.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D14|SRER_P1

Line #	1	29	30	31	32	33	34	35	36	37	38	39	40
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover													

Total number of lines flown: 13

D14|SRER_P2

Line #	41	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																			

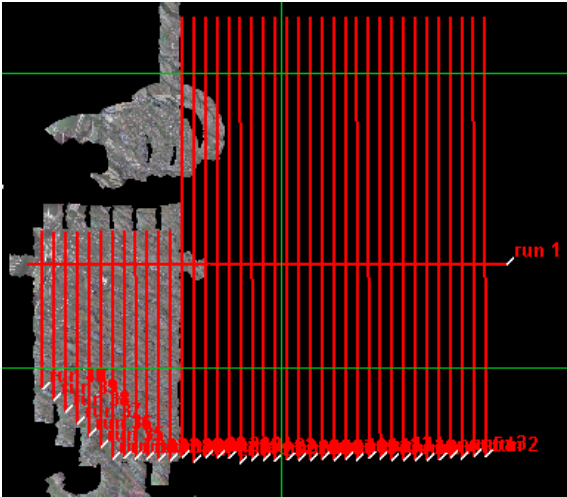
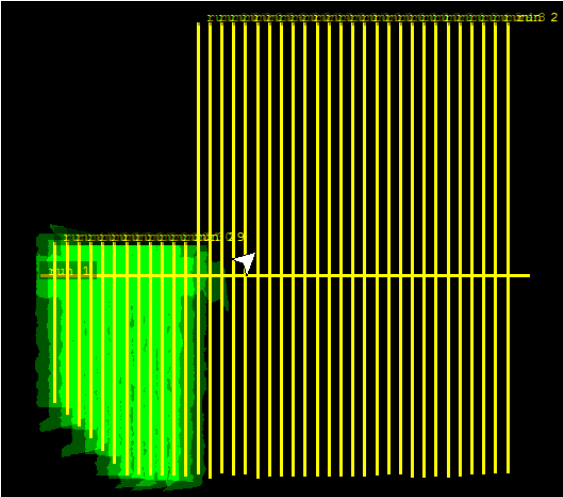
Total number of lines flown: 19

Flight Screenshots

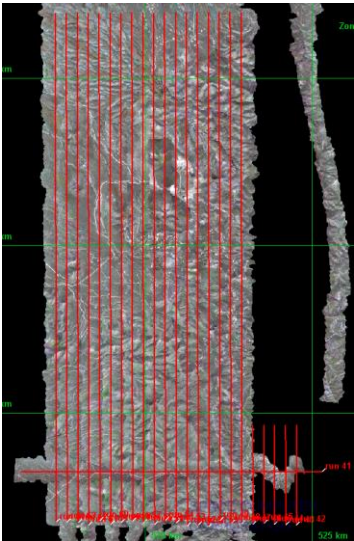
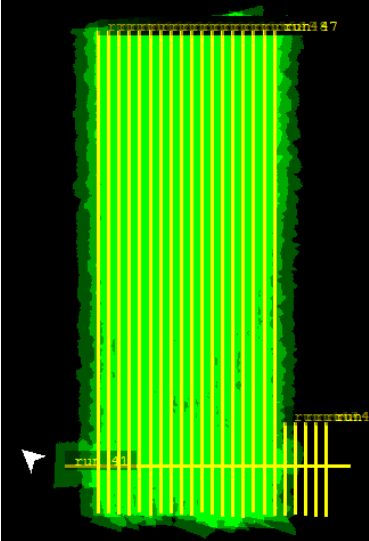
Lidar

NIS

SRER P1



SRER P2



Pictures



Another requested pic from the impressive Santa Rita Mountains. Pic by Abe M.

Cumulative Domain Coverage

D14|JORN_P1 (Jornada Priority 1)

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)

D14|JORN_P2 (Jornada Priority 2)

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

Flown: 0% (0/21)

Green: 0% (0/21)

Yellow: 0% (0/21)

Red: 0% (0/21)

D14|N14A (D14 Nominal Runway)

1

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)

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: 100% (40/40)

Green: 100% (40/40)

Yellow: 0% (0/40)

Red: 0% (0/40)

D14|SRER_P2 (Santa Rita Experimental Range Priority 2)

41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64																

Flown: 79% (19/24)
Green: 79% (19/24)
Yellow: 0% (0/24)
Red: 0% (0/24)

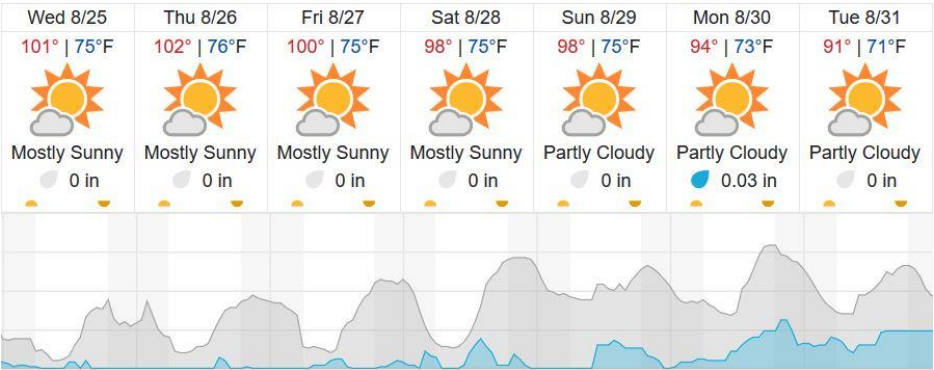
D14|SRER_P3 (Santa Rita Experimental Range Priority 3)

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														

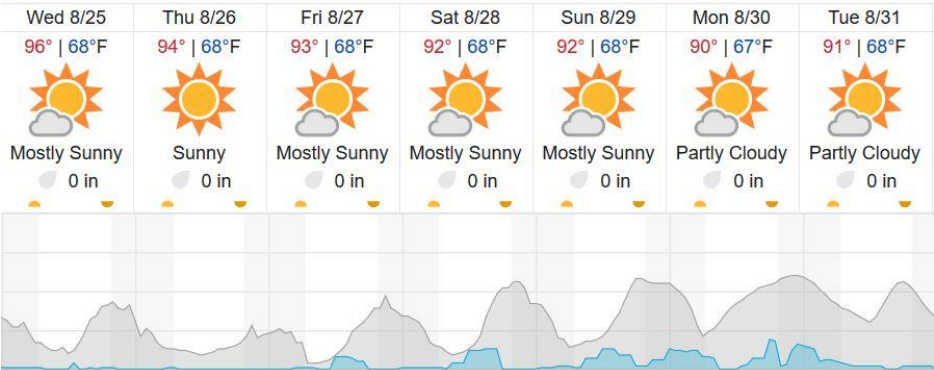
Flown: 0% (0/26)
Green: 0% (0/26)
Yellow: 0% (0/26)
Red: 0% (0/26)

Weather Forecast

Vail, AZ (SRER)



Hatch, NM (JORN)



	Cloud Cover (%)		Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for 25 August 2021

Flyority 1

Collection Area: Santa Rita Experimental Range (SRER) – Priority 2 Box

(Lines 42-46)

Flight Plan Name: D14_SRER_C1_P2_v5_Q780

On-station Time: 16:10 UTC / 09:10 L

Flyority 2

Collection Area: Santa Rita Experimental Range (SRER) – Priority 3 Box

Flight Plan Name: D14_SRER_C1_P3_v5_Q780

On-station Time: 16:10 UTC / 09:10 L

Flyority 3

Collection Area: Jornada (JORN) – Priority 1 Flight Box– Priority 1 Box

Flight Plan Name: D14_JORN_R1_P1_v4_Q780

On-station Time: 16:00 UTC / 09:00 L

Flyority 4

Collection Area: Jornada (JORN) – Priority 1 Flight Box– Priority 2 Box

Flight Plan Name: D14_JORN_R1_P2_v4_Q780

On-station Time: 16:00 UTC / 09:00 L

Crew: Abe and Elissa