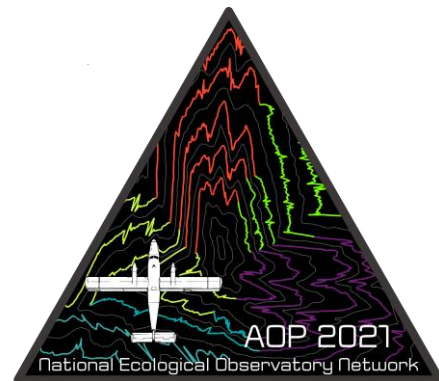




Payload 3 Daily Flight Report



Date: 2021-08-26

Flight Campaign ID: P3C1

Airport, FBO ID, City: Tucson International Airport (KTUS) - Tucson, AZ, Las Cruces International (KLRU) - Las Cruces, NM

Aircraft: N615AR

Domain: 14 (Desert Southwest)

Sites Flown: JORN_P1 (Jornada Priority 1)

Days left in Domain: 13

Report Author: Abe Morrison

Lidar Operators: Abe Morrison

Spectrometer Operators: Elissa Barris

Pilots: Stephen Brawders, Vince Maarschalkerweerd

Flight Hours: 01:30:00, 03:53:00, 01:29:00

Hours until maintenance: 45.38

GPS Instruments: 06 - KTUS, AOP_JORN

Summary

With clear skies forecast at the JORN site, the crew pulled the otter out at the crack of dawn. A journey was undertaken to the Las Cruces area, and after a fuel stop, 25 lines in the priority 1 box were collected in 'green' sky conditions.

Concerns

- The current HK issues seem to have been resolved and we are working through the backlog of flight extractions.
- We have a Midas 1 disc from yesterday's flight that can not be read by the HK. We are working with HQ staff to resolve.
- During our last fuel stop, the FBO GPU spiked voltage causing the AXE ammeters to malfunction. HQ staff was notified.

Comments

The crew has been coordinating with multiple research groups that have interests in the JORN collections. A coincident collection was conducted on the ground today with a drone and an ASD by Dawn Browning of USDA – ARS Jornada Experimental Range.

Daily Coverage

Estimated Cloud Cover Key

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

D14|JORN_P1

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓

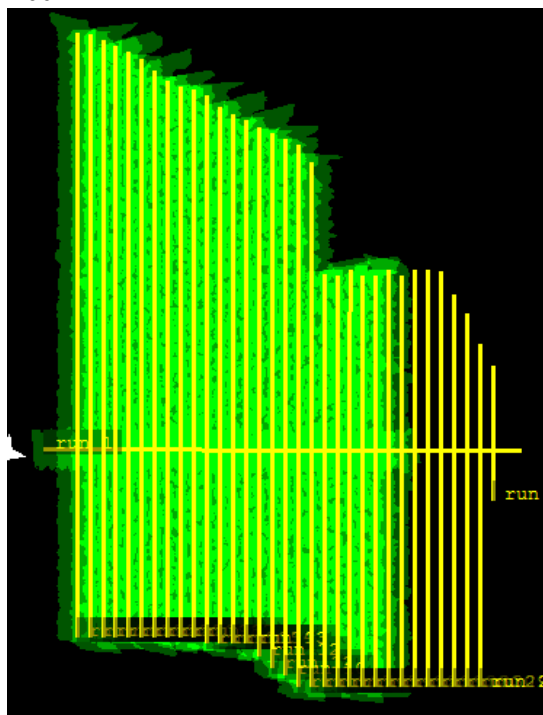
Cloud Cover					
-------------	--	--	--	--	--

Total number of lines flown: 25

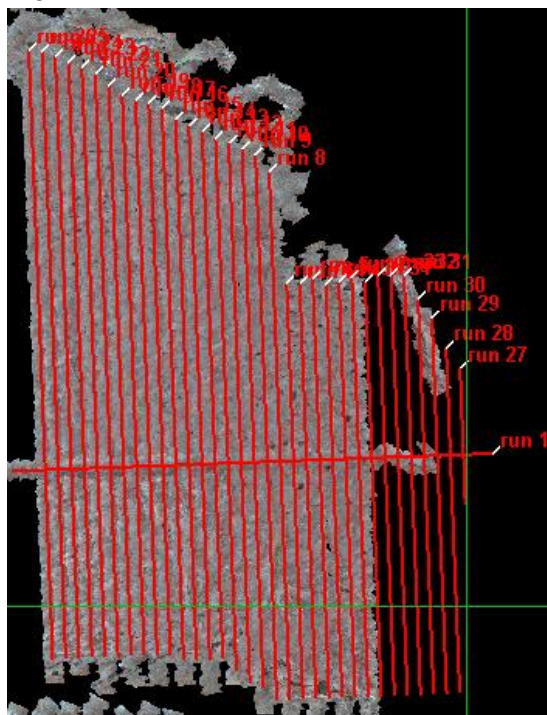
Flight Screenshots

JORN_P1

Lidar



NIS



Pictures



At 6am, the band getting ready for an epic day of flights. Pic by Elissa B.



Dodging afternoon thunderstorms on the flight back to Tucson. 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	27	28	29	30	31	32	33	34						

Flown: 76% (26/34)

Green: 76% (26/34)

Yellow: 0% (0/34)

Red: 0% (0/34)

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|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: 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: 54% (14/26)

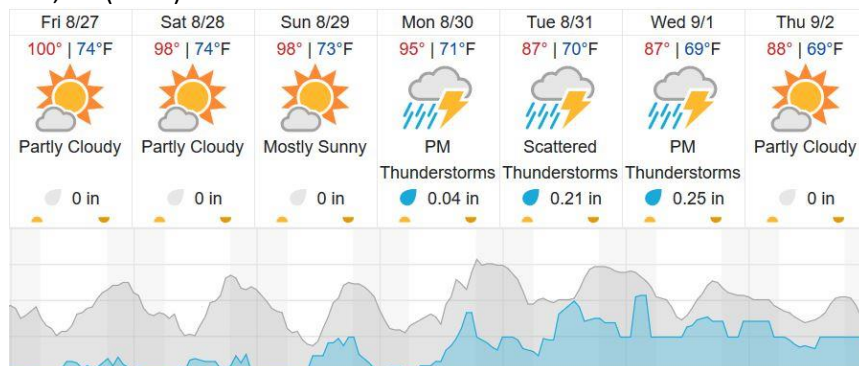
Green: 46% (12/26)

Yellow: 8% (2/26)

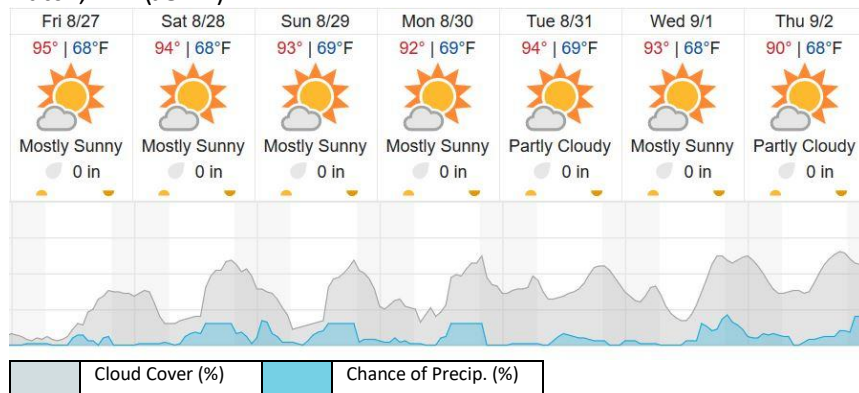
Red: 0% (0/26)

Weather Forecast

Vail, AZ (SRER)



Hatch, NM (JORN)



	Cloud Cover (%)	Chance of Precip. (%)
--	-----------------	-----------------------

source: wunderground.com

Flight Collection Plan for 27 August 2021

Flyority 1 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 2 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 3 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