



Payload 3 Daily Flight Report



Date: 2025-09-14

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 14 (Desert Southwest)

Sites Flown: JORN_P1 (Jornada Priority 1), JORN_P2 (Jornada Priority 2)

Days left in Domain: 2

Report Author: Matt

Lidar Operators: Matt

Flight Hours: 01:22:00, 03:20:00, 01:30:00

Spectrometer Operators: Mitch

Hours until maintenance: 54.88

Pilots: Vince, Greg

GPS Instruments: AOP_JORN, C-NMSU

Summary

The crew got an early start and repositioned to Las Cruces, NM, for a fuel top off before starting collections at the JORN site. A mix of high and low cumulus clouds were present throughout the morning but managed to improve before we were off station. Priority 1 and 2 areas completed in a mix of green, yellow and red sky conditions.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D14|JORN_P1

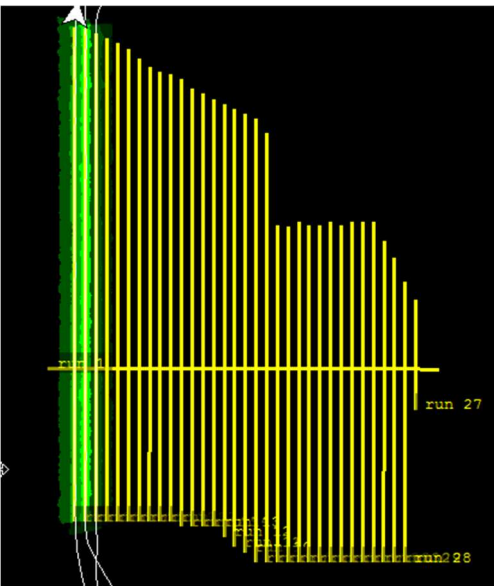
Line #	24	25	26
Lidar	✓	✓	✓
Spectrometer	✓	✓	✓
Camera	✓	✓	✓
Cloud Cover			

Total number of lines flown: 3

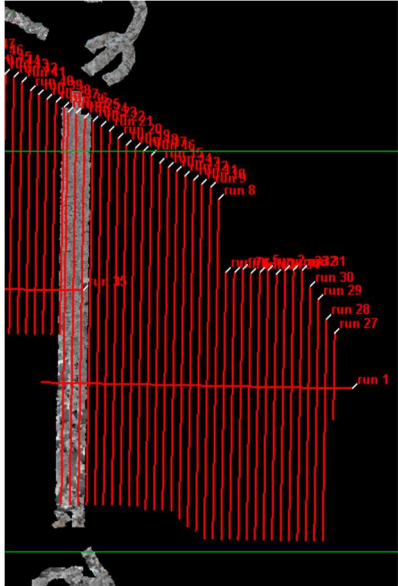
Line #	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

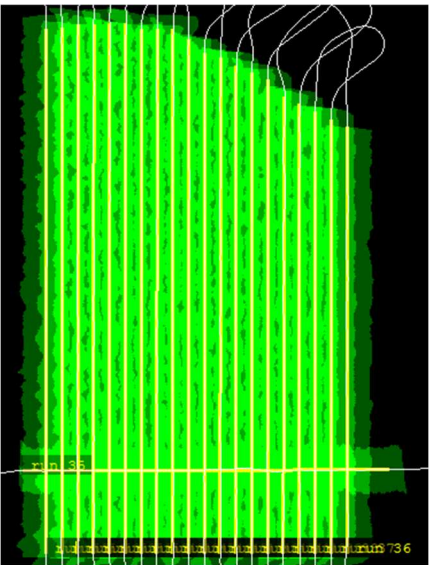
Flight Screenshots



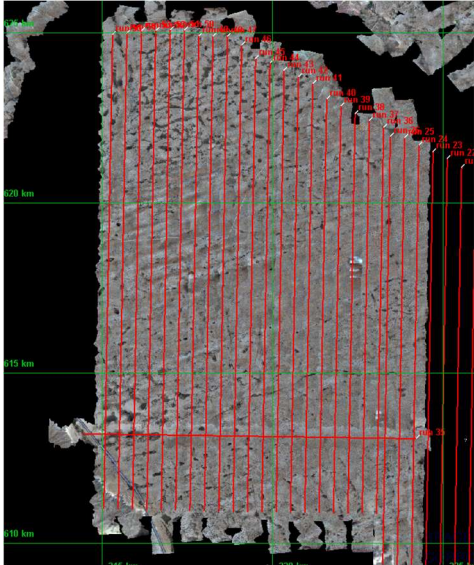
JORN P1 Lidar



JORN P1 NIS



JORN P2 Lidar



JORN P2 NIS

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: 100% (34/34)

Green: 79% (27/34)

Yellow: 12% (4/34)

Red: 9% (3/34)

* Flown within 35deg solar angle

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
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Flown: 100% (20/20)

Green: 0% (0/20)

Yellow: 45% (9/20)

Red: 55% (11/20)

* Flown within 35deg solar angle

D14|SRER_P1 (Santa Rita Experimental Range Priority 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% (39/39)

Green: 100% (39/39)

Yellow: 0% (0/39)

Red: 0% (0/39)

* Flown within 35deg solar angle

D14|SRER_P2 (Santa Rita Experimental Range Priority 2)

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

Flown: 9% (2/23)

Green: 4% (1/23)

Yellow: 4% (1/23)

Red: 0% (0/23)

* Flown within 35deg solar angle

D14|SRER_P3 (Santa Rita Experimental Range Priority 3)

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% (0/25)

Green: 0% (0/25)

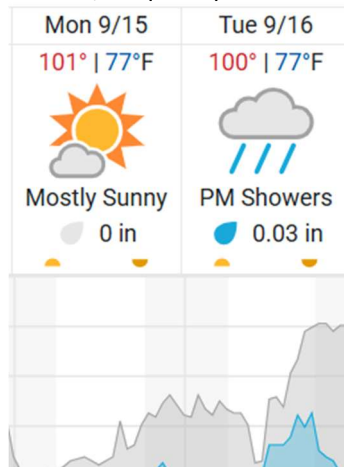
Yellow: 0% (0/25)

Red: 0% (0/25)

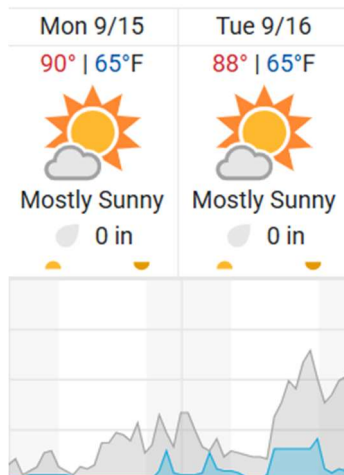
* Flown within 35deg solar angle

Weather Forecast

Tucson, AZ (SRER)



Hatch, NM (JORN)



source: wunderground.com

Flight Collection Plan for 15 September 2025

Flyority 1

Collection Area: Santa Rita Experimental Range (SRER) P2

Flight Plan Name: D14_SRER_C1_P2_v8_Q780

On-Station Time: 1630 UTC / 0930 L

Flyority 2

Collection Area: Santa Rita Experimental Range (SRER) P3

Flight Plan Name: D14_SRER_C1_P3_v8_Q780

On-Station Time: 1630 UTC / 0930 L

Crew: Mitch (Lidar), Matt (NIS)