



August 25, 2019 Payload 2 Daily Flight Report



Date: 2019-08-25

Flight Campaign ID: 2019_P2C1

Airport, FBO ID, City: El Paso International Airport (KELP) - El Paso, TX

Domain: 14

Sites Flown: JORN_P1 (Jornada Priority 1), N14A (D14 Nominal Runway)

Days left in Domain: 18

Report Author: Ivana Vu

Flight Crew: Ivana Vu, Mitch Haynes

Flight Hours: 03:55

Ground/GPS: Mitch Haynes

Hours until maintenance: 117.37

Pilots: Micah Hoogeveen, Paul Muth

Additional Personnel: None

GPS Instruments: 02 - FBO_KELP, U-P026, U-RG07, U-SG33, C-NMSU

Summary

Higher priority SRER site had low cumulus clouds at the start of the 40-degree solar angle, so flight crew focused on collecting data at JORN instead. Twenty-one lines including the priority air-shed and TOS boundary were collected in "green" sky conditions (<10% cloud cover).

Concerns

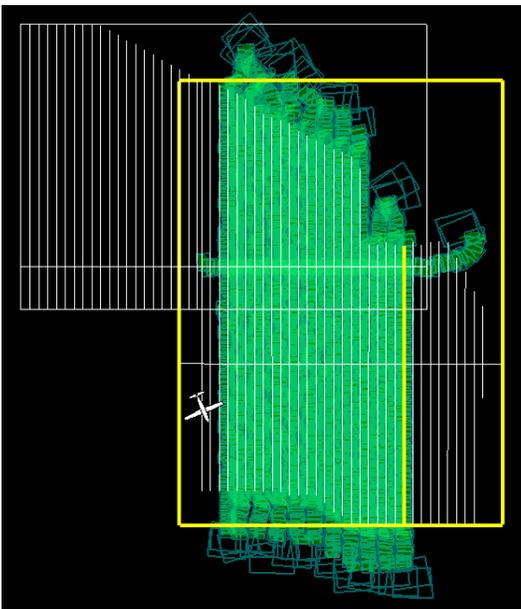
None

Comments

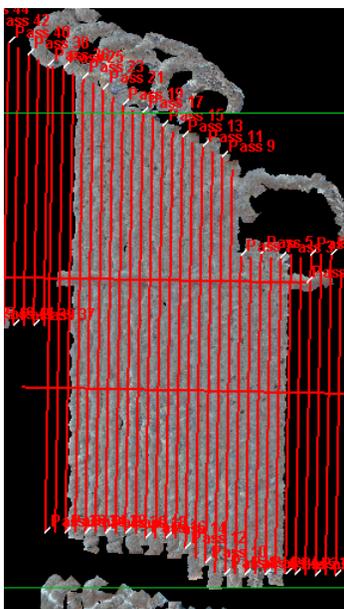
- GPS02 (FBO_KELP) is online
- D14 Nominal Runway calibration flight was completed over Las Cruces airport

Flight Screenshots

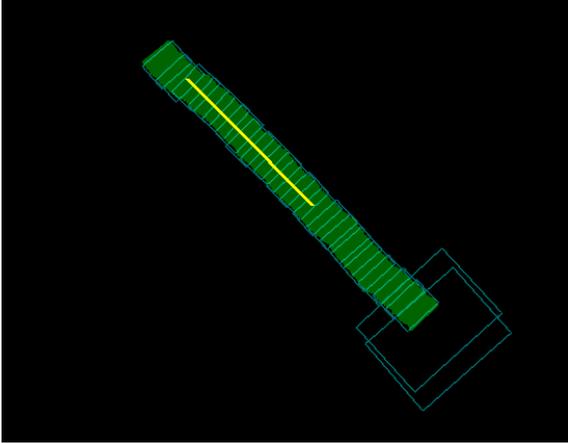
JORN Lidar



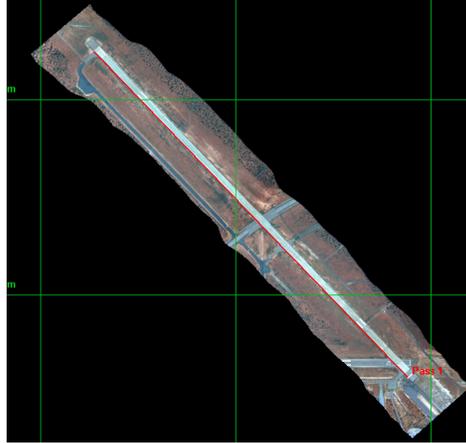
JORN NIS



N14A Lidar



N14A NIS



Pictures

Jornada site



Las Cruces, NM



Franklin Mountains, TX



Daily Coverage

D14 JORN_P1	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	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
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
	20				✓	✓	✓	NLC
	21				✓	✓	✓	NLC
	22				✓	✓	✓	NLC
	23				✓	✓	✓	NLC
Flown:	21							
D14 JORN_P2	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	35				✓	✓	✓	NLC
Flown:	1							
D14 N14A	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
Flown:	1							

Estimated Cloud Cover Key

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

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															

Flown: 81% (21/26)

Green: 81% (21/26)

Yellow: 0% (0/26)

Red: 0% (0/26)

JORN_P2

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

Flown: 5% (1/21)

Green: 5% (1/21)

Yellow: 0% (0/21)

Red: 0% (0/21)

N14A

1

Flown: 100% (1/1)

Green: 100% (1/1)

Yellow: 0% (0/1)

Red: 0% (0/1)

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: 0% (0/40)

Green: 0% (0/40)

Yellow: 0% (0/40)

Red: 0% (0/40)

SRER_P2

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: 0% (0/24)

Green: 0% (0/24)

Yellow: 0% (0/24)

Red: 0% (0/24)

SRER_P3

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)

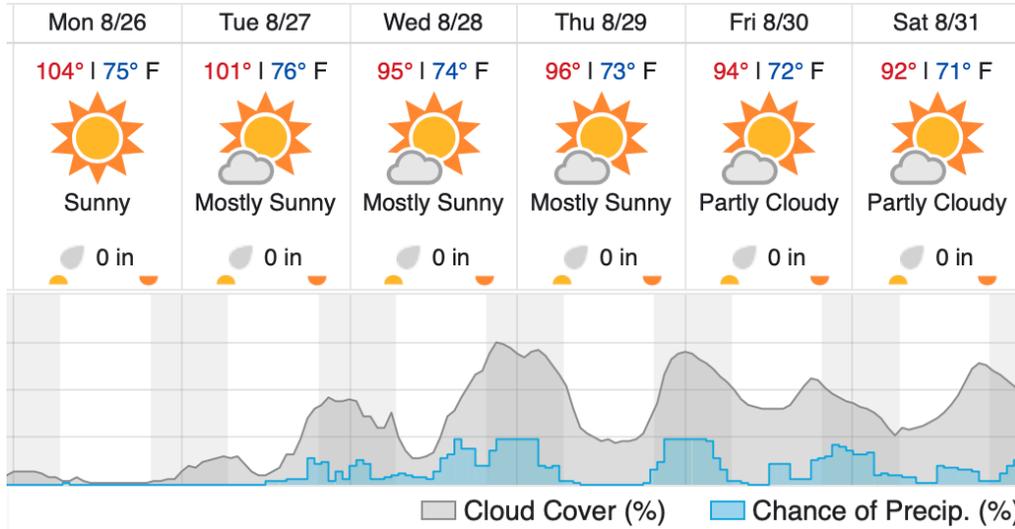
Green: 0% (0/26)

Yellow: 0% (0/26)

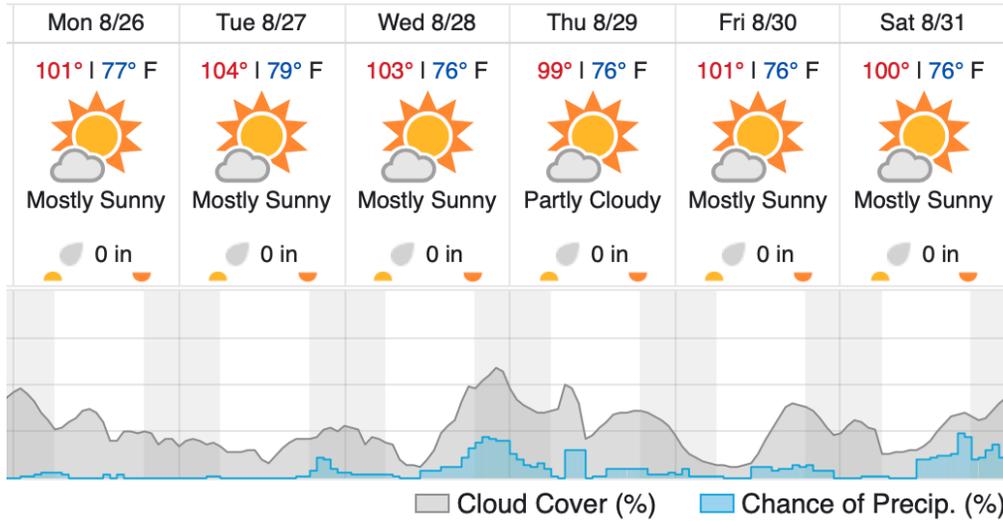
Red: 0% (0/26)

Weather Forecast

El Paso, TX (FBO, JORN)



Tucson, AZ (SRER)



Flight Collection Plan for 26 August 2019

Flyority 1:

Collection Area: Santa Rita Experimental Range – Priority 1 Flight Box (SRER_P1)

Flight Plan Name: D14_SRER_C1_P1_P2_P3_v5.pln

On-station Time: 1610 – 2240 UTC / 0910 – 1540 Local (40-degree solar angle)

Flyority 2:

Collection Area: Santa Rita Experimental Range – Priority 2 Flight Box (SRER_P2)

Flight Plan Name: D14_SRER_C1_P1_P2_P3_v5.pln

On-station Time: 1610 – 2240 UTC / 0910 – 1540 Local (40-degree solar angle)

Flyority 3:

Collection Area: Santa Rita Experimental Range – Priority 3 Flight Box (SRER_P3)

Flight Plan Name: D14_SRER_C1_P1_P2_P3_v5.pln

On-station Time: 1610 – 2240 UTC / 0910 – 1540 Local (40-degree solar angle)

Flyority 4:

Collection Area: Jornada – Priority 1 Flight Box (JORN_P1)

Flight Plan Name: D14_JORN_R1_P1_P2_v5.pln

On-station Time: 1600 – 2220 UTC / 1000 – 1620 Local (40-degree solar angle)

Flyority 5:

Collection Area: Jornada – Priority 2 Flight Box (JORN_P2)

Flight Plan Name: D14_JORN_R1_P1_P2_v5.pln

On-station Time: 1600 – 2220 UTC / 1000 – 1620 Local (40-degree solar angle)

Crew: Mitch Haynes (Lidar), Ivana Vu (NIS/GPS)

Flight Collection Plan for 27 August 2019

Flyority 1-6: Same as previous day

Crew: Ivana Vu (Lidar), Mitch Haynes (NIS/GPS)