



Payload 1 Daily Flight Report



Date: 2026-08-17

Flight Campaign ID: P1C1

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

Aircraft: N537AR

Domain: 14

Sites Flown: SRER_P1 (Santa Rita Experimental Range – Priority 1 Box)

Days left in Domain: 12

Report Author: Elissa

Lidar Operators: Elissa

Flight Hours: 02:22

Spectrometer Operators: John **Hours until maintenance:** 116.68

Pilots: Troy, Jonathan

Ground Crew: NA

Summary

18 more lines were collected in the Priority 1 flight box of SRER before growing cumulus over Mt Wrightson pushed us into yellow conditions.

Concerns

None.

Comments

SRER flight plan was updated yesterday afternoon; line numbering is now correct.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D14|SRER_P1

Line #	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																		

Total number of lines flown: 18

Cumulative Domain Coverage

D14|SRER_P1 (Santa Rita Experimental Range)

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: 36% (12/33)

Green: 36% (12/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

* Flown within 35deg solar angle

D14|SRER (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: 0% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

* Flown within 35deg solar angle

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% (0/25)

Green: 0% (0/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

* Flown within 35deg solar angle

D14|JORN (Jornada)

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: 36% (12/33)

Green: 36% (12/33)

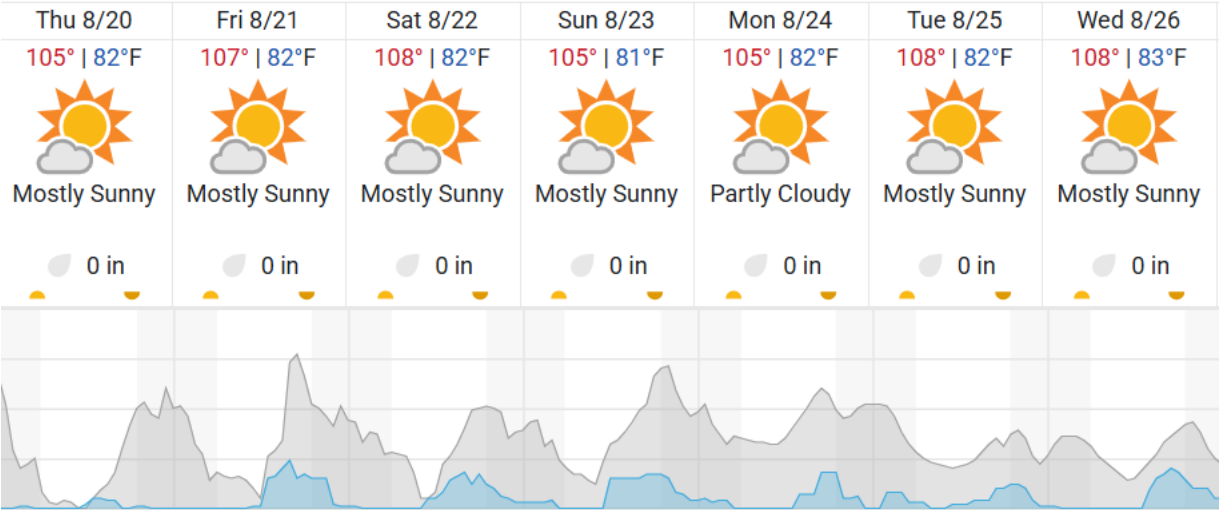
Yellow: 0% (0/33)

Red: 0% (0/33)

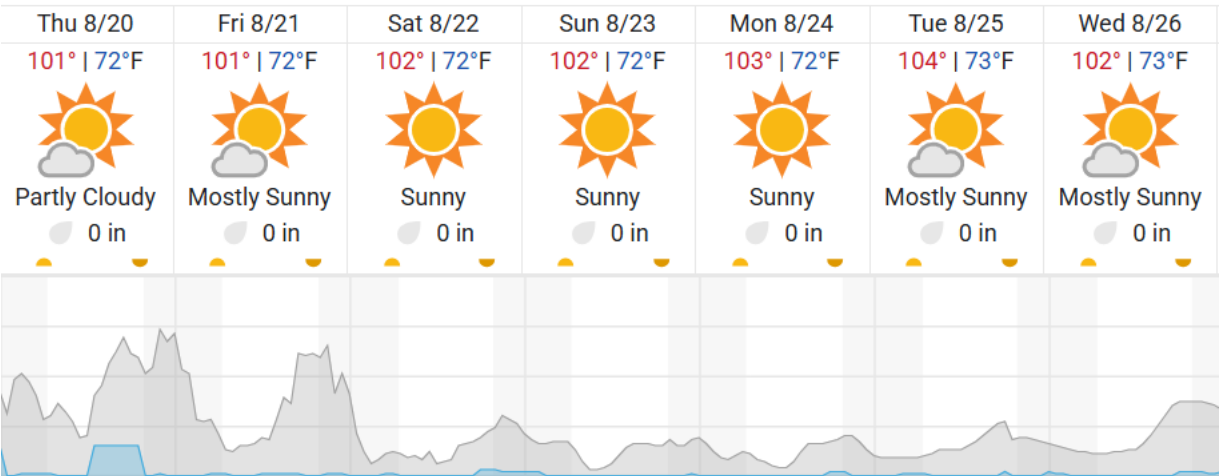
* Flown within 35deg solar angle

Weather Forecast

Tucson, AZ (SRER)



Hatch, NM (JORN)



Flight Collection Plan for 20 August 2026

Flyority 1

Site: Santa Rita Experimental Range (SRER) – Priority 1 Flight Box
Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml
Solar Angle Time: 10:10L/16:10UTC

Flyority 2

Site: Santa Rita Experimental Range (SRER) – Priority 2 Flight Box
Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml
Solar Angle Time: 10:10L/16:10UTC

Flyority 3

Site: Santa Rita Experimental Range (SRER) – Priority 3 Flight Box
Flight Plan Name: D14_SRER_C1_P1_P2_P3_v7_PRM.xml
Solar Angle Time: 10:10L/16:10UTC

Flyority 4

Site: Jornada (JORN) – Priority 1 Flight Box
Flight Plan Name: D14_JORN_C1_P1_P2_v5_PRM.xml
Solar Angle Time: 09:30L/15:30UTC

Flyority 5

Site: Jornada (JORN) – Priority 2 Flight Box
Flight Plan Name: D14_JORN_C1_P1_P2_v5/v6_PRM.xml
Solar Angle Time: 09:30L/15:30UTC

Crew: John (Lidar), Elissa (NIS)