



Payload 1 Daily Flight Report



Date: 2022-09-02

Flight Campaign ID: P1C1

Airport, FBO ID, City: Tucson International Airport - Tucson, AZ

Aircraft: N331AR

Domain: 14 (Desert Southwest)

Sites Flown: None

Days left in Domain: 9

Report Author: Elissa

Lidar Operators: Elissa

Flight Hours: 00:00

Spectrometer Operators: Abe **Hours until maintenance:** 41.27

Pilots: Vince, Steven

Summary

No flights were conducted today due to early cloud formation over both sites, and the promise of several likely cloud-free days coming up starting Sunday.

Concerns

The spectrometer backplate temperature is still reading high at 153K. The Lakeshore display is different than usual, and is highlighting the 153K value. Restarting the cooling system again did not solve the problem, and the lab will continue to investigate. In the meantime we are continuing with collections and hoping that data quality is not effected since the focal plan array thermocouple is still outputting expected values.

Comments

- The mercury lamp test was conducted today.
- We swapped in a replacement solar panel and observed that the battery immediately began to rapidly charge under the desert sun, strengthening our suspicions that the original solar panel had been substantially damaged in Deadhorse.
- QA ran to completion today for last Tuesday's flight, catching us up on data extractions so far.
- Mitch departed the domain this morning. Thanks for the hard work helping to sort out data and GPS issues before leaving!

Cumulative Domain Coverage

Estimated Cloud Cover Key

Green: 0-10%	Yellow: 11-50%	Red: >50%
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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: 98% (39/40)

Yellow: 2% (1/40)

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: 0% (0/24)

Green: 0% (0/24)

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)

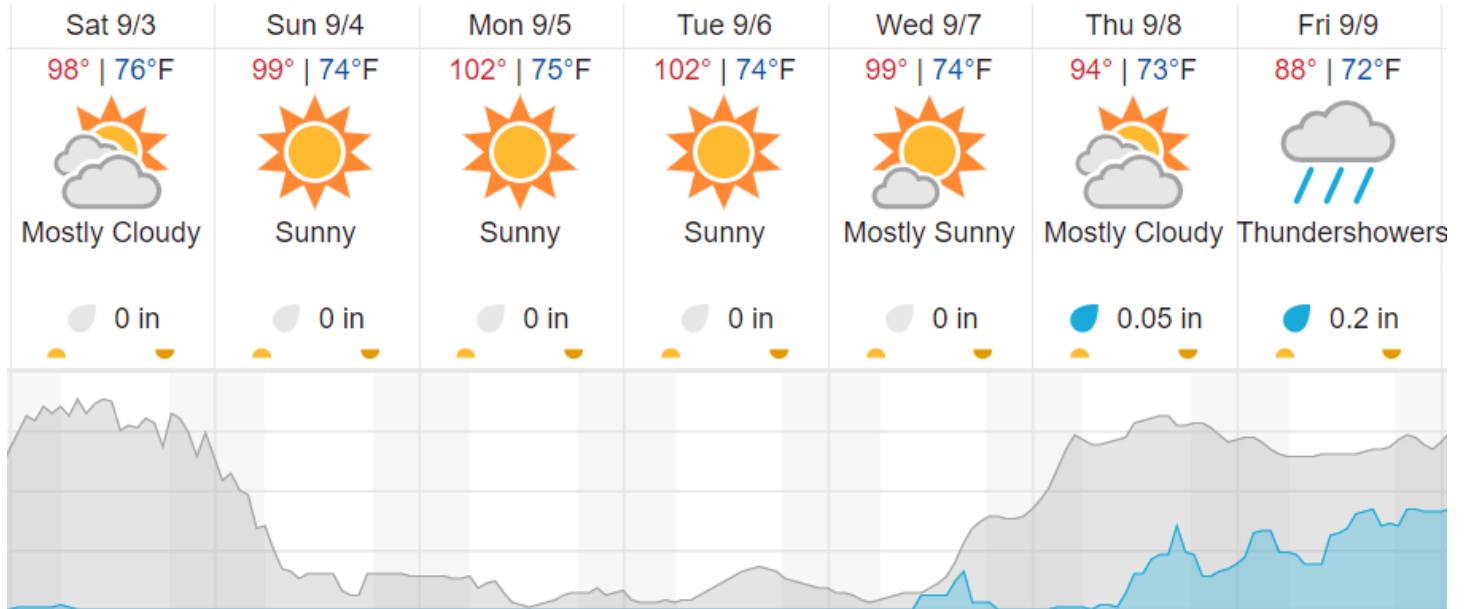
Green: 0% (0/26)

Yellow: 0% (0/26)

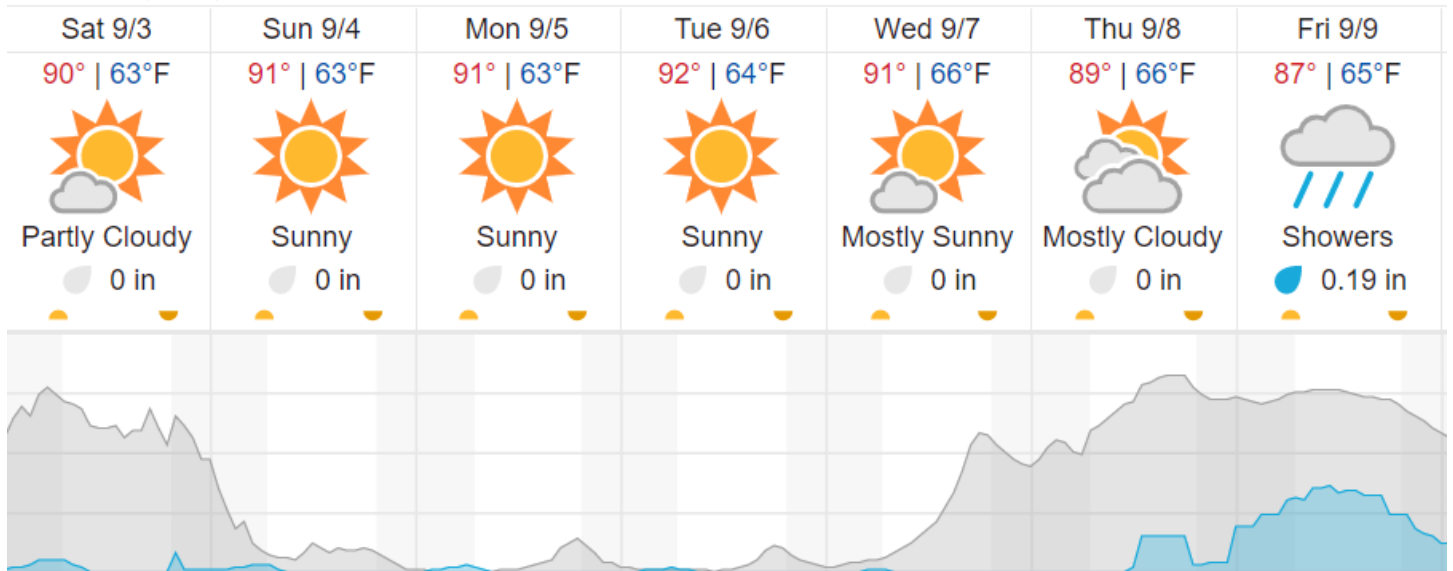
Red: 0% (0/26)

Weather Forecast

Tucson, AZ (KTUS, SRER)



Hatch, NM (JORN)



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

Flight Collection Plan for 3 September 2022

Flyority 1

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

Flight Plan Name: D14_JORN_R1_P1_v5_PRM.xml

35° On-station Time: 15:40 UTC / 09:40 MDT / 8:40 MST

Flyority 2

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

Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml

40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 3

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

Flight Plan Name: D14_SRER_C1_P1_v6_PRM.xml

40° On-station Time: 16:20 UTC / 09:20 MST

Flyority 4

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

Flight Plan Name: D14_JORN_R1_P1_v5_PRM.xml

35° On-station Time: 15:40 UTC / 09:40 MDT / 8:40 MST

Flyority 5

Collection Area: Nominal Runway – D14

Flight Plan Name: D14_N14A_Nominal_Runway_Test_v1_PRM

On-station Time: N/A

Crew: Elissa, Abe