



## August 30, 2019 Payload 2 Daily Flight Report



**Date:** 2019-08-30

**Flight Campaign ID:** 2019\_P2C1

**Airport, FBO ID, City:** Scottsdale Airport (KSDL) - Scottsdale, AZ

**Domain:** 14

**Sites Flown:** None

**Days left in Domain:** 13

**Report Author:** Mitch Haynes

**Flight Crew:** Mitch Haynes, Ivana Vu

**Ground/GPS:**

**Pilots:** Micah Hoogeveen, Paul Muth

**Additional Personnel:**

**GPS Instruments:** NONE

**Flight Hours:** 00:00

**Hours until maintenance:** 109.03

### Summary

No flights were attempted due to insufficient GPS coverage over NEON sites. Permanent GPS receiver at SRER was confirmed a failure. GPS 09 (originally set up at KTUS airport) was relocated to SRER Tower site. New GPS receiver was shipped out from Boulder and should be installed next week.

### Concerns

- Scottsdale airport and surrounding area lost power early this morning. Quick thinking was done by FBO staff and early rising pilot Micah Hoogeveen in getting a gas GPU to power our system during the outage. Spectrometer pressure loss was minimized by the time ASOs arrived. Once power was restored to the hangar, vacuum pump was attached to the system to return pressure to a more comfortable level.
- Back and forth with Scottsdale Airport Authority has failed to produce a suitable location for GPS setup at KSDL. A more creative solution is being discussed with FBO staff, hoping to implement tomorrow.
- GPS 07 arrived today; originally slated to be set up to provide GPS coverage at Sycamore Creek, the unit does not appear to be operational in its current state. More troubleshooting to come, but until GPS coverage is available at SYCA, no flights will be attempted there.
- Speaking of Sycamore Creek, a TFR (Temporary Flight Restriction) has popped up fairly close to our flight box due to aircrews fighting a wildfire in the region.
- AC Cart has been largely successfully in keeping aft aircraft temperatures near the PIM below 35°C, however fore sections of the aircraft near the NIS rack recorded temperatures upwards of 44°C today while the Otter was inside the hangar. Crew are looking into additional cooling methods.

### Comments

Woes were plentiful in D14 today, but special thanks to the FBO staff, pilots, D14 Manager Abe Karam, and the rest of AOP FltOps in their support and assistance working through these issues.

**Pictures**



Above: Ivana Vu powering through every GPS hurdle thrown our way at Santa Rita.

**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	27	28	29	30	31	32	33	34						

Flown: 100% (34/34)  
 Green: 91% (31/34)  
 Yellow: 9% (3/34)  
 Red: 0% (0/34)

**JORN\_P2**

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

Flown: 100% (21/21)  
 Green: 5% (1/21)  
 Yellow: 100% (21/21)  
 Red: 0% (0/21)

**N14A**

1
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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)

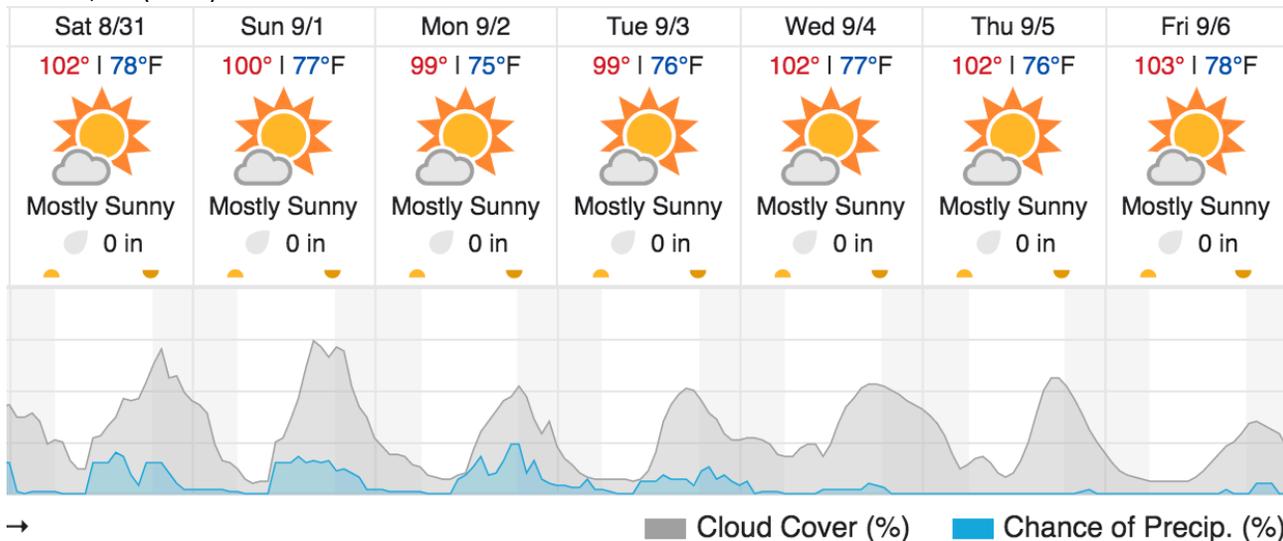
**SYCA**

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	
41	42	43	44	45	46	47	48	49	50	51	52									

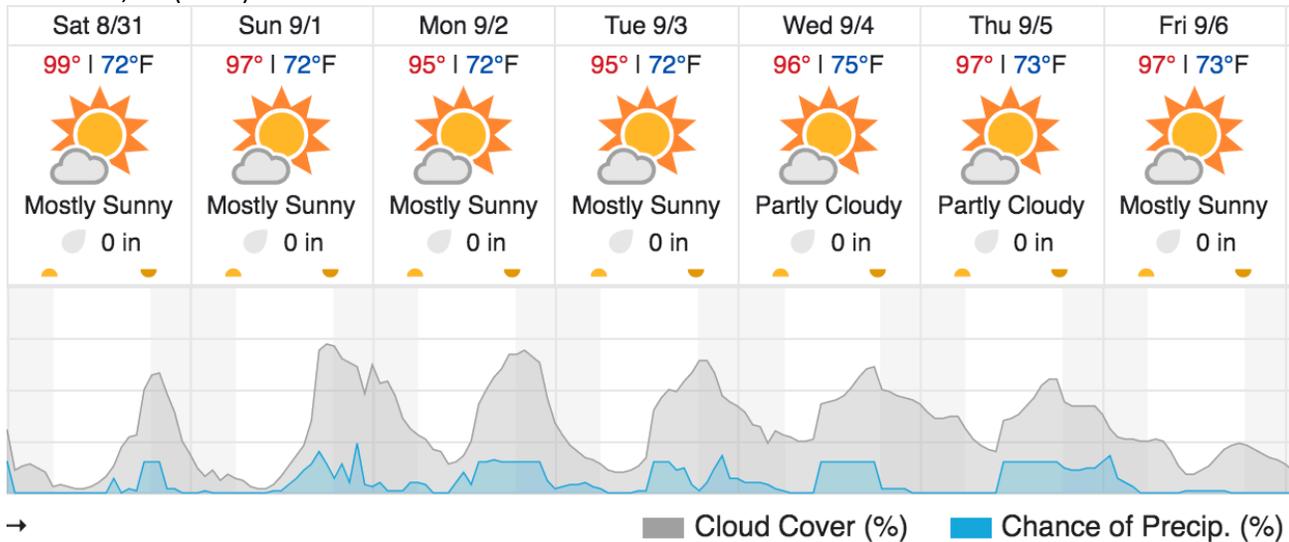
Flown: 0% (0/52)  
 Green: 0% (0/52)  
 Yellow: 0% (0/52)  
 Red: 0% (0/52)

**Weather Forecast**

Tucson, AZ (SRER)



Rio Verde, AZ (SYCA)



**Flight Collection Plan for 31 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: 1620 – 2230 UTC / 0920 – 1530 MST

**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: 1620 – 2230 UTC / 0920 – 1530 MST

**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: 1620 – 2230 UTC / 0920 – 1530 MST

**Flyority 4:**

Collection Area: Sycamore Creek – Priority 1 Flight Box (SYCA)

\*Will not be attempted till sufficient GPS Coverage is available\*

Flight Plan Name: D14\_SYCA\_A1\_P1\_v5\_750\_max.pln

On-station Time: 1620 – 2230 UTC / 0920 – 1530 MST

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