



Payload 3 Daily Flight Report



Date: 2023-05-18

Flight Campaign ID: P3C1

Airport, FBO ID, City: Wichita Falls Municipal Airport (KSPS) - Wichita Falls, TX

Aircraft: N934MU

Domain: 11 (Southern Plains)

Sites Flown: PRIN (Pringle Creek)

Days left in Domain: 2

Report Author: Nick

Lidar Operators: Nick

Flight Hours: 03:08

Spectrometer Operators: John **Hours until maintenance:** 68.70

Pilots: Paul, Shane

GPS Instruments: 02 - KSPS, TXDOT-TXDC

Summary

The crew took advantage of a storm system holding this morning to collect PRIN in red conditions. Small cumulus clouds slightly below collection altitude challenged collection but did not impact data collections.

Concerns

The lidar data recorder gave a fault during line 17 and was reflown.

Comments

A payload tour was conducted for D11 staff. Many thanks to all those who made the trek to Wichita Falls.

Daily Coverage

Estimated Cloud Cover Key

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

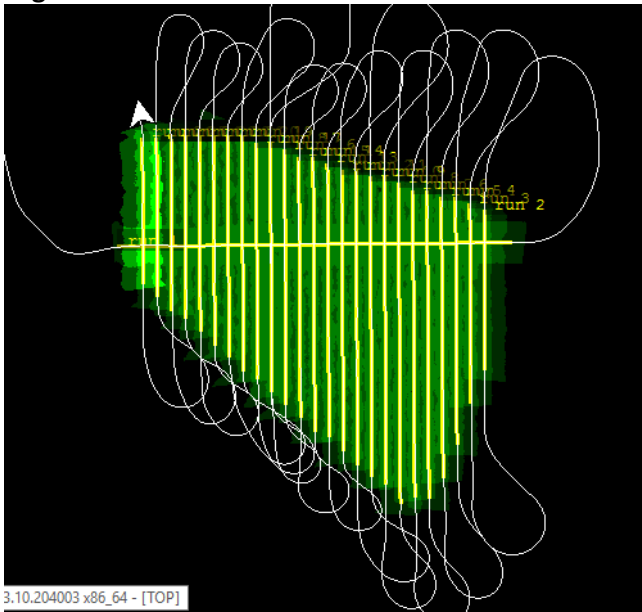
D11|PRIN

Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

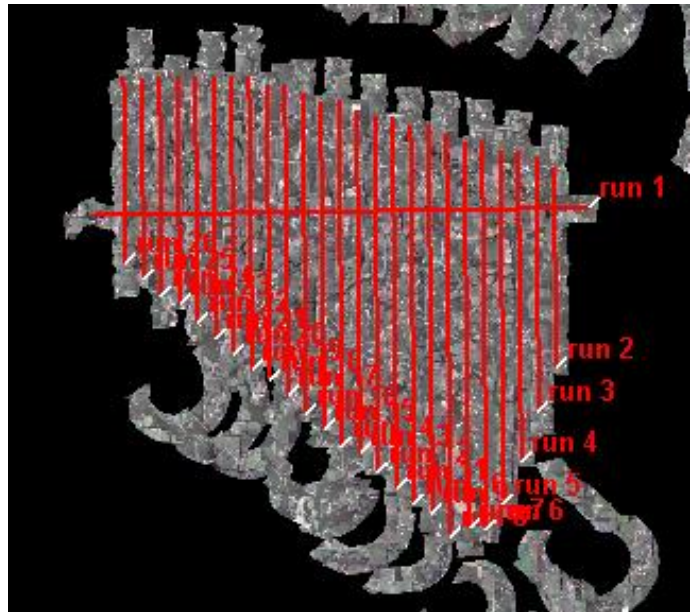
Line #	21	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓
Cloud Cover						

Total number of lines flown: 26

Flight Screenshots



Lidar screenshot 2023051813



NIS screenshot 2023051813

Pictures



Payload tour with D11 staff.

Cumulative Domain Coverage

D11 | BLUE (Blue River aquatic site)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Flown: 0% (0/15)

Green: 0% (0/15)

Yellow: 0% (0/15)

Red: 0% (0/15)

D11|CLBJ (LBJ National Grassland)

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											

Flown: 100% (29/29)
 Green: 41% (12/29)
 Yellow: 59% (17/29)
 Red: 0% (0/29)

D11|OAES (Klemme Range Research Station)

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				

Flown: 100% (36/36)
 Green: 100% (36/36)
 Yellow: 0% (0/36)
 Red: 0% (0/36)

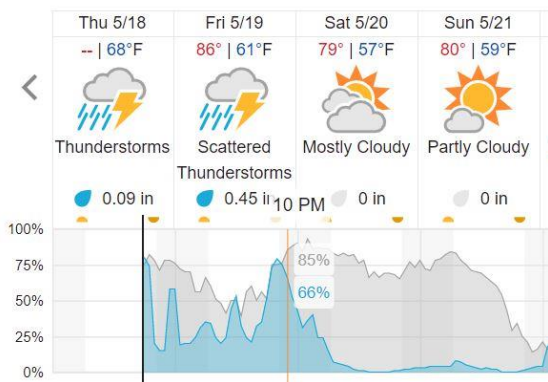
D11|PRIN (Pringle Creek)

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														

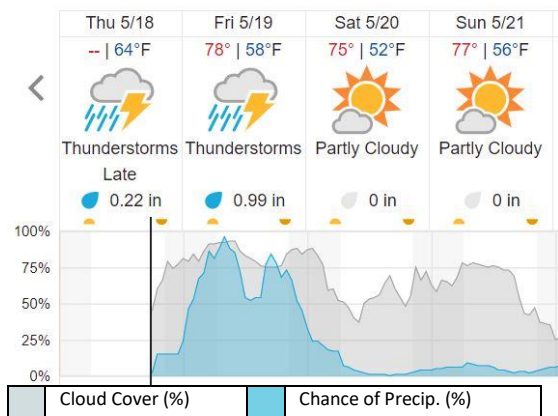
Flown: 100% (26/26)
 Green: 0% (0/26)
 Yellow: 0% (0/26)
 Red: 100% (26/26)

Weather Forecast

Alvord, TX (CLBJ, PRIN)



Stonewall, OK (BLUE)



source: wunderground.com

Flight Collection Plan for May 2023

Flyority 1

Collection Area: LBJ Grasslands (CLBJ)

Flight Plan Name: D11_CLBJ_C1_P1_v3_Q780

On-Station Time: 15:00 UTC/ 10:00 L

Flyority 2

Collection Area: Pringle Creek (PRIN)

Flight Plan Name: D11_PRIN_A1_P1_v4_Q780

On-Station Time: 15:00 UTC/ 10:00 L

Flyority 3

Collection Area: Blue River (BLUE)

Flight Plan Name: D11_BLUE_A2_P1_v3_Q780

On-Station Time: 15:00 UTC/ 10:00 L

Crew: John (lidar), Nick (NIS)