



Payload 1 Daily Flight Report



Date: 2022-05-07

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 11 (Southern Plains)

Sites Flown: None

Days left in Domain: 3

Report Author: Elissa

Lidar Operators: Elissa

Spectrometer Operators: Cameron

Pilots: Magnus, Justin

Flight Hours: 00:00

Hours until maintenance: 98.80

GPS Instruments: None

Summary

We mobilized this morning thinking we had a chance at an early window of green conditions at BLUE. We towed out and started systems, but fast moving low cumulus quickly clouded out the site. Though the sky eventually cleared locally, red conditions persisted throughout the solar angle window at BLUE and OAES.

Concerns

- After the system ran idly for about an hour this morning, we began to notice a faint burning smell coming from the Lantronix box on the NIS rack. No cables appeared loose, hot, or out of place on inspection. We informed Ian and will have Chris ship an IR sensor for a more thorough inspection. We will continue to monitor closely in the meantime.
- Extraction of waveform data failed on yesterday's flight, likely due to an issue with using two waveform disks. We will restart the extraction using only one waveform disk, which will enable QA of 97% of the data while Andrew assesses the issue.
- We had some connectivity issues with OAES this morning, and were unable to connect to either our tower camera or the rest of the site. We have since regained access to the hut and phenocams, but are still unable to reach our tower camera.

Comments

None.

Cumulative Domain Coverage

Estimated Cloud Cover Key

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

D11 | BLUE (Blue River)

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|

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: 100% (29/29)
Yellow: 0% (0/29)
Red: 0% (0/29)

D11 | N11A (D11 Nominal Runway)

| |
|---|
| 1 |
|---|

Flown: 0% (0/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 0% (0/1)

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

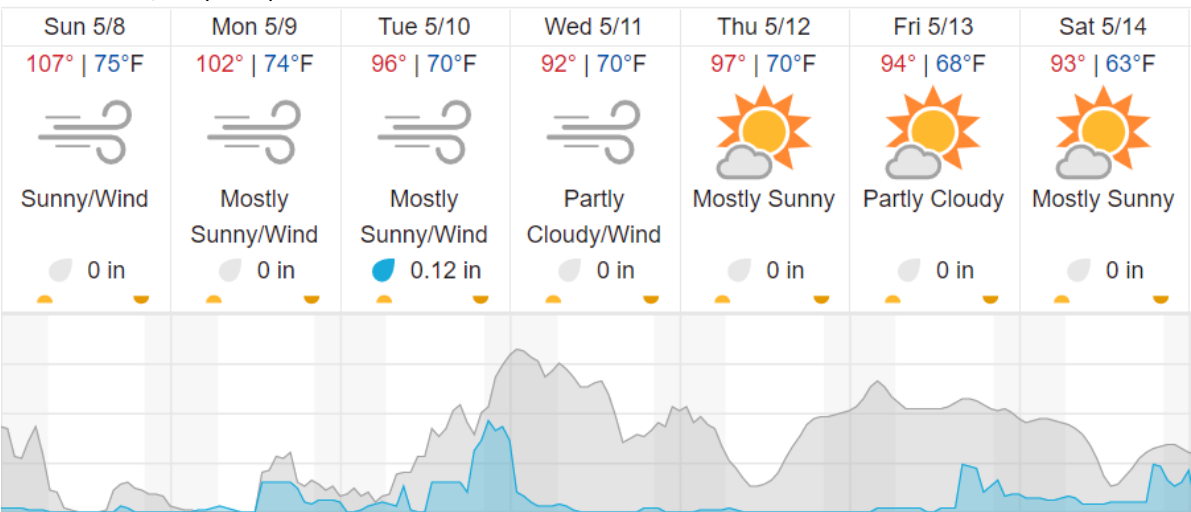
D11 | PRIN (Pringle Creek)

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | | | | | | | | | | |

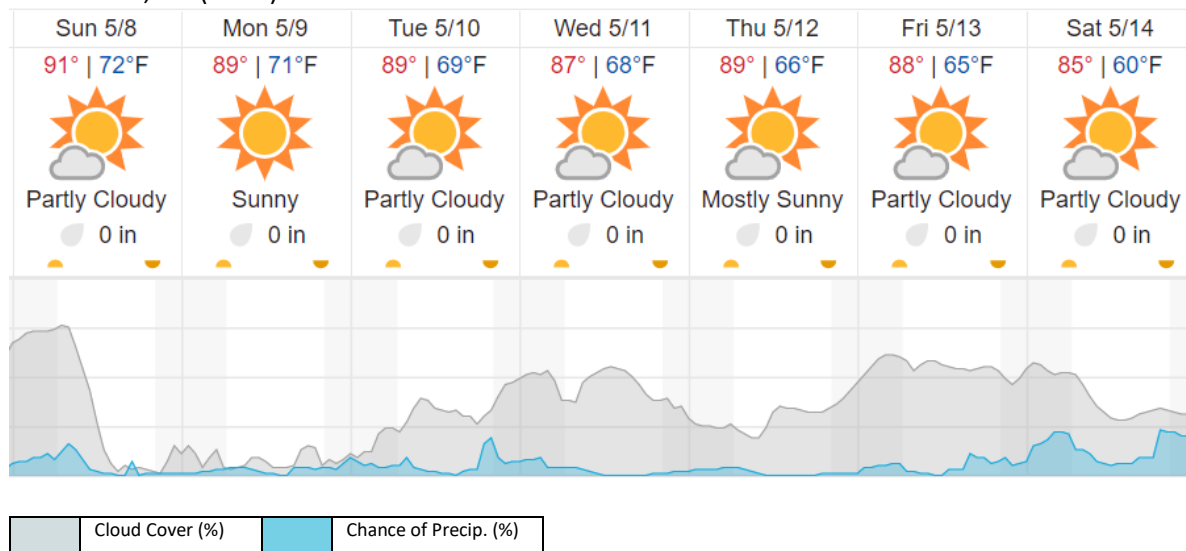
Flown: 100% (26/26)
Green: 58% (15/26)
Yellow: 42% (11/26)
Red: 0% (0/26)

Weather Forecast

Wichita Falls, TX (KSPS)



Connerville, OK (BLUE)



source: wunderground.com

Flight Collection Plan for 8 May 2022

Flyority 1

Collection Area: Blue River (BLUE)

Flight Plan Name: D11_Blue_A2_P1_v3_PRM

On-station Time: 1500 UTC / 1000 L

Flyority 3

Collection Area: Pringle Creek (PRIN) *Lines 2-12 if Green*

Flight Plan Name: D11_PRIN_A1_P1_v4_PRM

On-station Time: 1500 UTC / 1000 L

Flyority 3

Collection Area: Klemme Range Research Station (OAES)

Flight Plan Name: D11_OAES_R1_P1_v3_PRM

On-station Time: 1450 UTC / 0950 L

Flyority 4

Collection Area: D11 Nominal Runway

Flight Plan Name: D11_N11A_Nominal_Runway_Test_v1_PRM

On-station Time: NA

Flight Crew:

Cam (Lidar), Elissa (NIS)