



## Payload 3 Daily Flight Report



**Date:** 2023-05-27

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Topeka Regional Airport (KFOE) - Topeka, KS

**Aircraft:** N934MU

**Domain:** 06 (Prairie Peninsula)

**Sites Flown:** KONZ\_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

**Days left in Domain:** 6

**Report Author:** John

**Lidar Operators:** John

**Spectrometer Operators:** Mike

**Pilots:** Paul, Shane

**Flight Hours:** 03:22, 01:42

**Hours until maintenance:** 54.18

**GPS Instruments:** 02 - KFOE, U-KSU1

### Summary

Today we were able to conduct two flights to complete the KONZ\_KONA flight boxes under red conditions, however it was fairly uniform brightness without cumulus shadows. The rest of the week is forecast to be mostly cloudy with some thunderstorms.

### Concerns

None.

### Comments

Shane' last day here; he will be replaced by Paul Muth. Thank you Shane for all your work these past couple of weeks! The backup hotel kit computer arrived this afternoon.

### Daily Coverage

Estimated Cloud Cover Key

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

D06|KONZ\_KONA

Flight #1

Line #	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																	

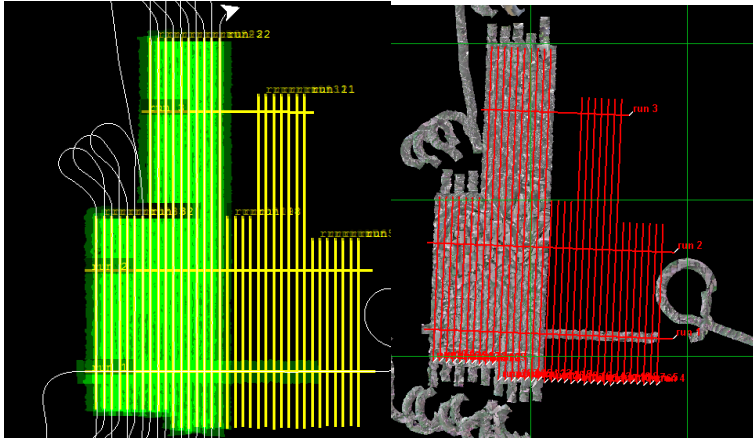
Total number of lines flown: 17

## Flight #2

Line #	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover							

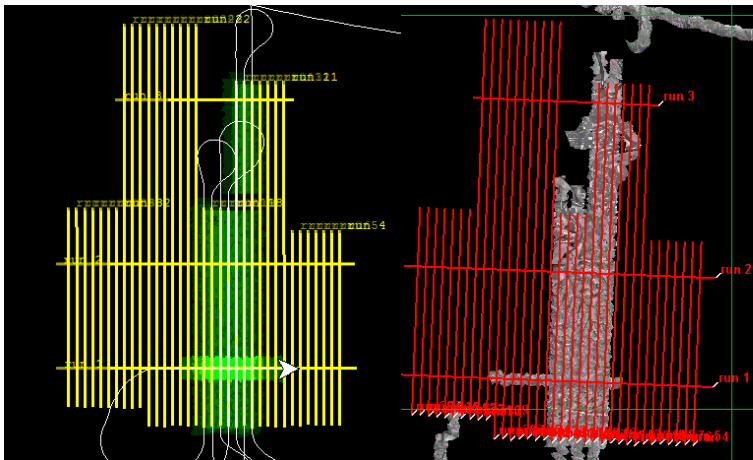
Total number of lines flown: 7

## Flight Screenshots



Flight #1 lidar

Flight #1 NIS



Flight #2 lidar

Flight #2 NIS

## Cumulative Domain Coverage

D06|KONZ\_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

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					

Flown: 100% (35/35)

Green: 0% (0/35)

Yellow: 29% (10/35)

Red: 71% (25/35)

## D06 | MCDI (McDiffett Creek )

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Flown: 0% (0/19)

Green: 0% (0/19)

Yellow: 0% (0/19)

Red: 0% (0/19)

## D06 | UKFS (University of Kansas Field Station )

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% (25/25)

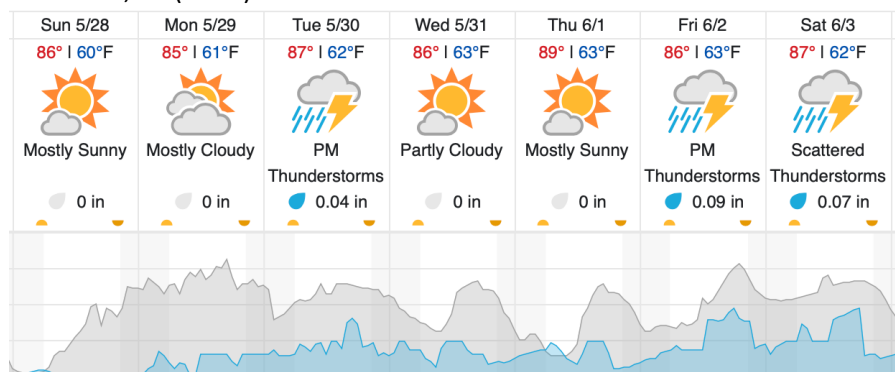
Green: 100% (25/25)

Yellow: 0% (0/25)

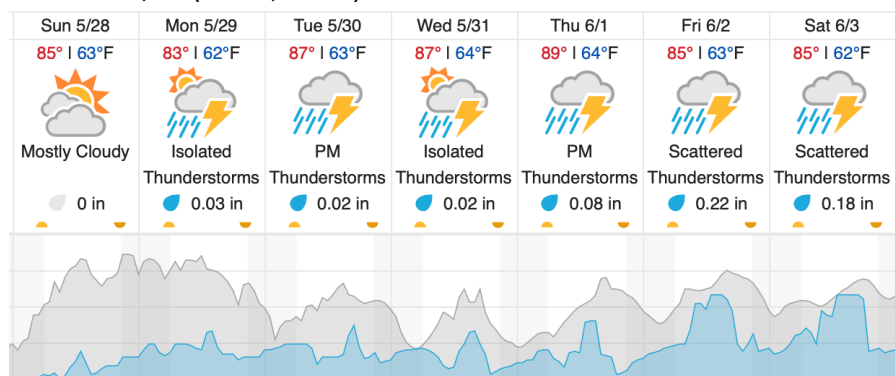
Red: 0% (0/25)

## Weather Forecast

### Lawrence, KS (UKFS)



### Manhattan, KS (KONA, KONZ)



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

## Flight Collection Plan for 28 May 2023

Flyority 1 (if green conditions)

Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)

Flight Plan Name: D06\_KONZ\_KONA\_C1\_P1\_v4\_Q780

On-Station Time: 14:50 UTC/ 09:50 L

Crew: Mike (lidar), John (NIS)