



Payload 3 Daily Flight Report



Date: 2023-05-24

Flight Campaign ID: P3C1

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

Aircraft: N934MU

Domain: 06 (Prairie Peninsula)

Sites Flown: UKFS (University of Kansas Field Station)

Days left in Domain: 9

Report Author: Mike

Lidar Operators: Mike

Spectrometer Operators: John

Pilots: Paul, Shane

Flight Hours: 02:45, 00:46

Hours until maintenance: 62.60

GPS Instruments: 02 - KFOE, AOP_UKFS

Summary

The crew flew a good portion of UKFS today in cloudless conditions. There was haze present, likely due to persistent wildfire smoke. A second flight was attempted at KONZ-KONA but upon arrival, cumulus clouds were edging in, and the mission was aborted.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

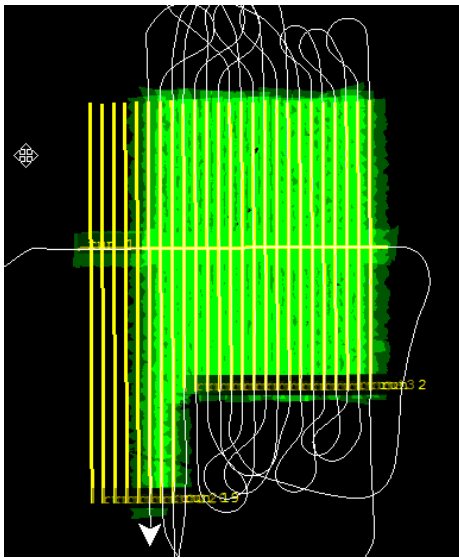
D06|UKFS

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																				

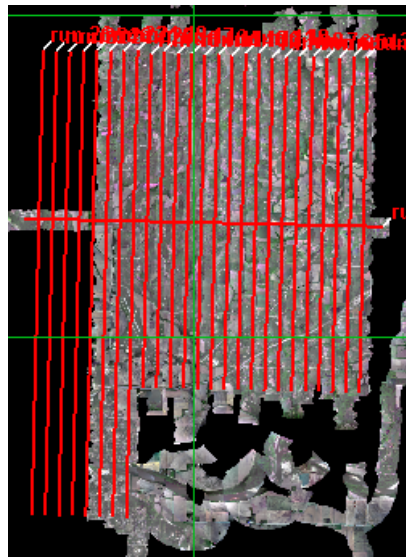
Line #	21
Lidar	✓
Spectrometer	✓
Camera	✓
Cloud Cover	

Total number of lines flown: 21

Flight Screenshots



Lidar



NIS

Pictures



Conditions over UKFS today.



Clouds starting to form at KONZ KONA

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: 0% (0/35)
 Green: 0% (0/35)
 Yellow: 0% (0/35)
 Red: 0% (0/35)

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)

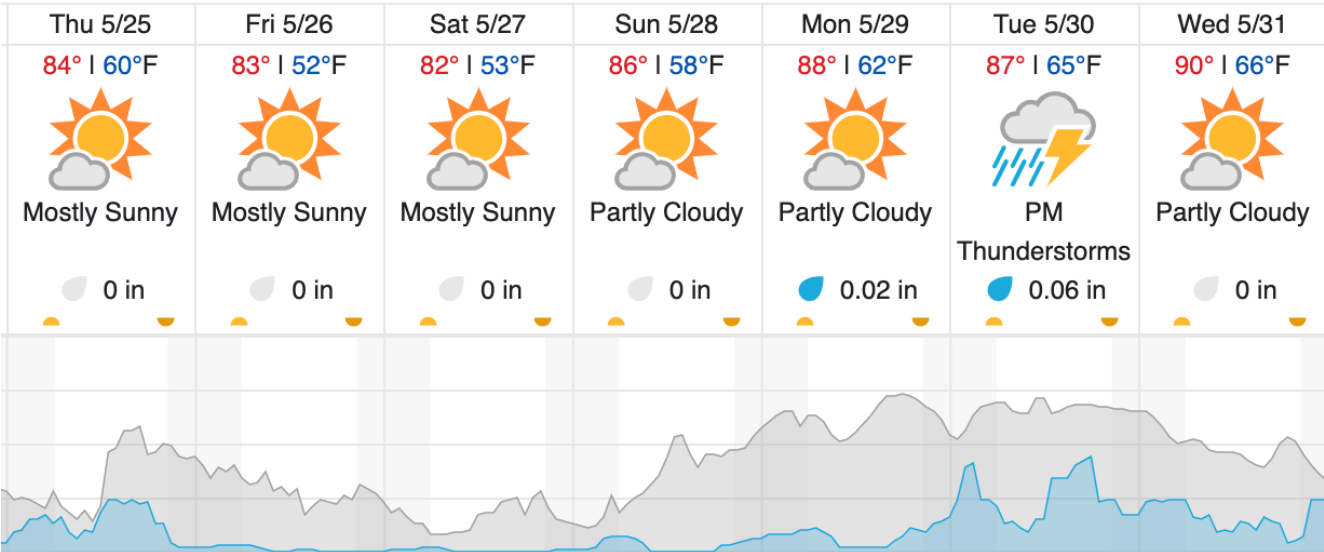
D06 | UKFS (University of Kansas Field Station)

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															

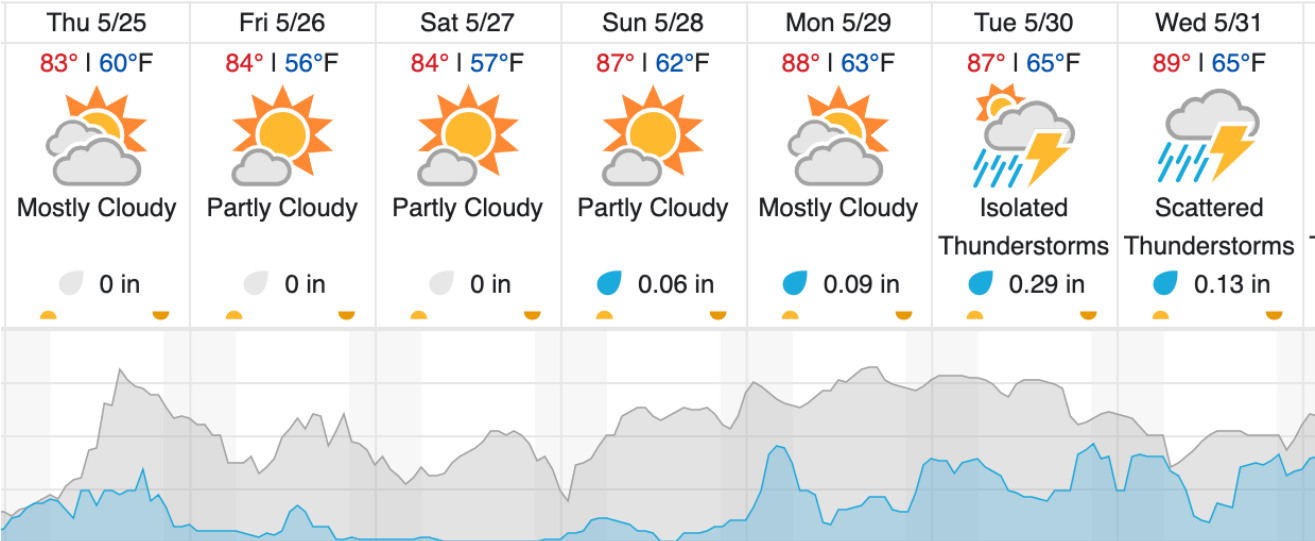
Flown: 80% (20/25)
 Green: 76% (19/25)
 Yellow: 4% (1/25)
 Red: 0% (0/25)

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 May 24 2023

Flyority 1
Collection Area: University of Kansas Field Station (UKFS) – Lines 21-26
Flight Plan Name: D06_UKFS_R1_P1_v3_Q78
On-Station Time: 14:40 UTC/ 09:40 L

Flyority 2

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

Flyority 3

Collection Area: McDiffett Creek (MCDI)

Flight Plan Name: D06_MCDI_C1_P2_v3_Q780

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

Crew: John (lidar), Mike (NIS)