



Payload 3 Daily Flight Report



Date: 2024-09-09

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 06 (Prairie Peninsula)

Sites Flown: KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

Days left in Domain: 0

Report Author: Mitch

Lidar Operators: Mitch

Flight Hours: 02:19

Spectrometer Operators: Cameron

Hours until maintenance: 49.65

Pilots: Manning, Vince

GPS Instruments: 03 - KFOE, U-KSU1

Summary

It was another clear day over Kansas, with a maybe slightly denser haze compared to yesterday, but still within acceptable green thresholds. The haze was determined to be primarily water vapor, not smoke. These conditions allowed the flight crew to successfully complete the remaining coverage of the KONZ-KONA flight box in 100% green. Following data extraction and QAQC of data overnight, the crew mobilize and return to Boulder tomorrow in order to begin calibration flights.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

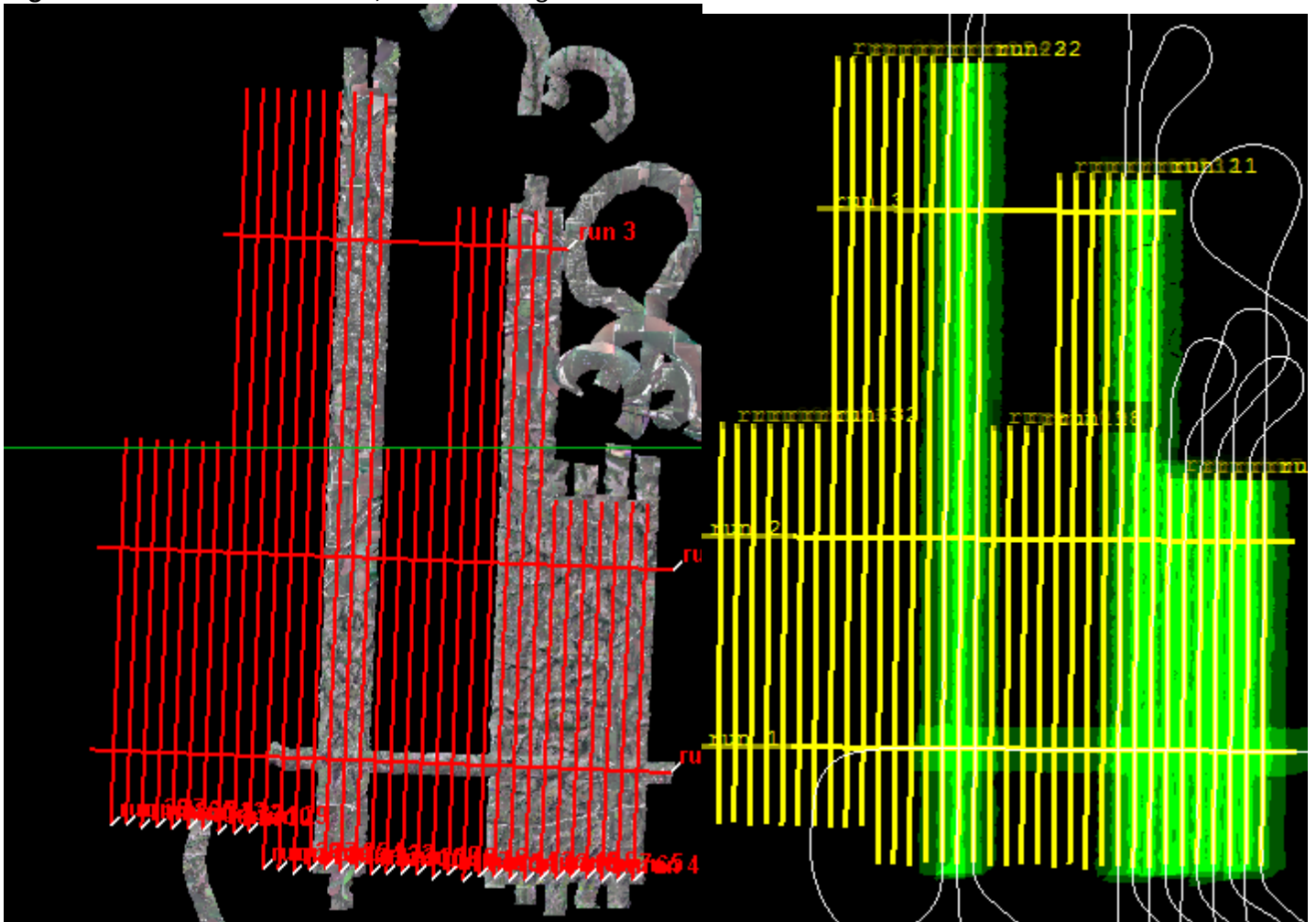
| |
|--------|
| Line # |
|--------|

D06|KONZ_KONA

| Line # | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 22 | 23 | 24 |
|--------------|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Lidar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spectrometer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Camera | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cloud Cover | | | | | | | | | | | | | |

Total number of lines flown: 13

Flight Screenshots: NIS on the left, lidar on the right



Pictures: Haze layer visible during today's flight.



Cumulative Domain Coverage

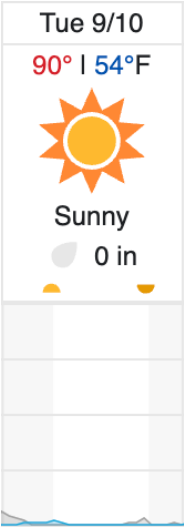
D06|KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

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

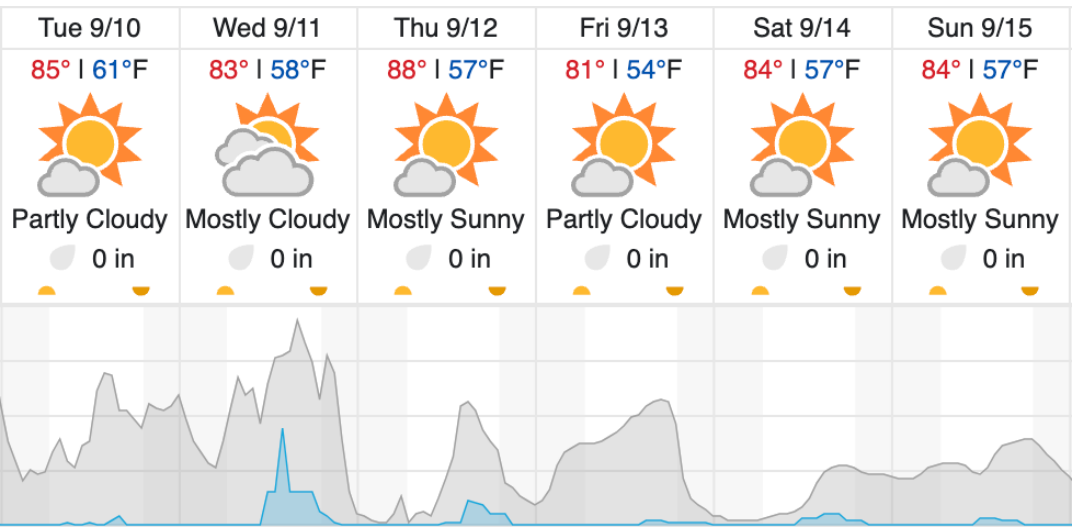
Flown: 100% (35/35)
Green: 100% (35/35)
Yellow: 0% (0/35)
Red: 0% (0/35)

Weather Forecast

Topeka, KS



Boulder, CO



source: wunderground.com

Flight Collection Plan for September 10 2024

Transit aircraft from Topeka, KS to Boulder, CO

Flight Crew: Cam

Ground Crew: Mitch (KFOE), Elissa (KBDU)