



Payload 3 Daily Flight Report



Date: 2025-06-15

Flight Campaign ID: P3C1

Airport, FBO ID, City: Winchester Regional Airport (KOKV) - Winchester, VA; Eugene F. Kranz Toledo Express Airport (KTOL) - Swanton, OH; Wausau Downtown Airport (KAUW) - Wausau, WI

Aircraft: N821AR

Domain: 00 (Transit), 05 (Great Lakes)

Sites Flown: Transit ()

Days left in Domain: 26

Report Author: Cameron

Lidar Operators: Cameron **Flight Hours:** 02:14:00, 02:37:00

Spectrometer Operators: **Hours until maintenance:** 69.70

Pilots: Tim, Justin

Adt'l Flight Crew: Cameron **Ground Crew:** Mike

Summary

The crew successfully transited the payload from D02 to D05 this evening, with a single fuel stop in Toledo. The system was powered off during the transit due to power constraints associated with IFR flight plans in challenging weather. Upon arrival, the system was repowered, placed on the vacuum pump, and began its re-cooling process. Given the short downtime, the system remained close to specifications and will be ready for data collection tomorrow morning.

Concerns

- None

Comments

- Mitch departed D02 today, Thanks for the hard work!!
- Mike arrived in D05 today!
- Nick will arrive in D05 tonight!
- HKR setup and RAID 2025_P3C1_05 was formatted

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

Pictures

Cruising above the clouds in route to D05



Cumulative Domain Coverage

D05|CHEQ (Chequamegon-Nicolet National Forest)

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|

Flown: 0% (0/16)
Green: 0% (0/16)
Yellow: 0% (0/16)
Red: 0% (0/16)
* Flown within 35deg solar angle

D05|LIRO (Little Rock Lake)

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|

Flown: 0% (0/7)
Green: 0% (0/7)
Yellow: 0% (0/7)
Red: 0% (0/7)
* Flown within 35deg solar angle

D05|STEI_TREE_P1 (Steigerwaldt Land Services and Treehaven Priority 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: 0% (0/25)
Green: 0% (0/25)
Yellow: 0% (0/25)
Red: 0% (0/25)
* Flown within 35deg solar angle

D05|STEI_TREE_P2 (Steigerwaldt Land Services and Treehaven Priority 2)

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

Flown: 0% (0/18)

Green: 0% (0/18)

Yellow: 0% (0/18)

Red: 0% (0/18)

* Flown within 35deg solar angle

D05|UNDE (University of Notre Dame Environmental Research Center)

| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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: 0% (0/28)

Green: 0% (0/28)

Yellow: 0% (0/28)

Red: 0% (0/28)

* Flown within 35deg solar angle

D05|WABI (NEON Research Support Services - Wabikon Forest Dynamics Plot)

| | | | | | |
|---|---|---|---|---|---|
| 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|

Flown: 0% (0/6)

Green: 0% (0/6)

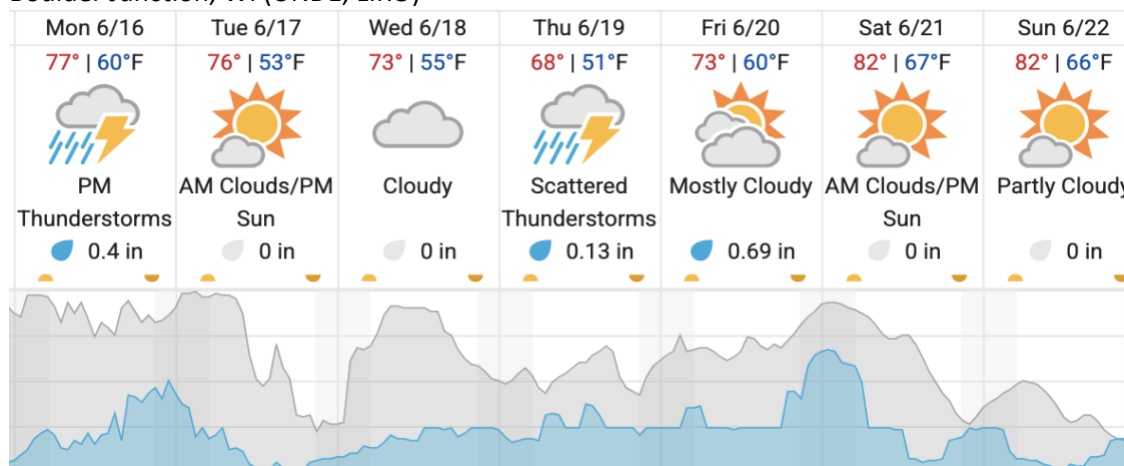
Yellow: 0% (0/6)

Red: 0% (0/6)

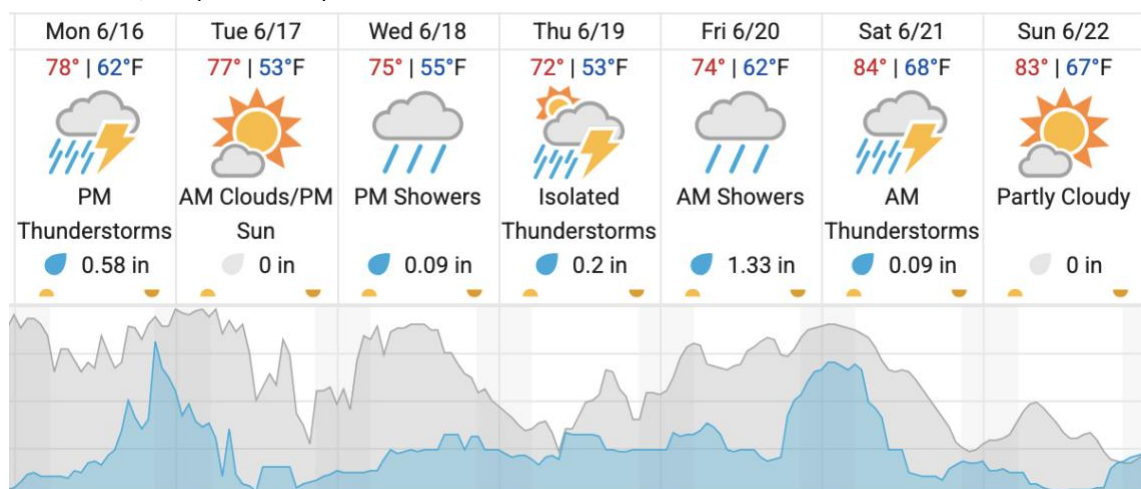
* Flown within 35deg solar angle

Weather Forecast

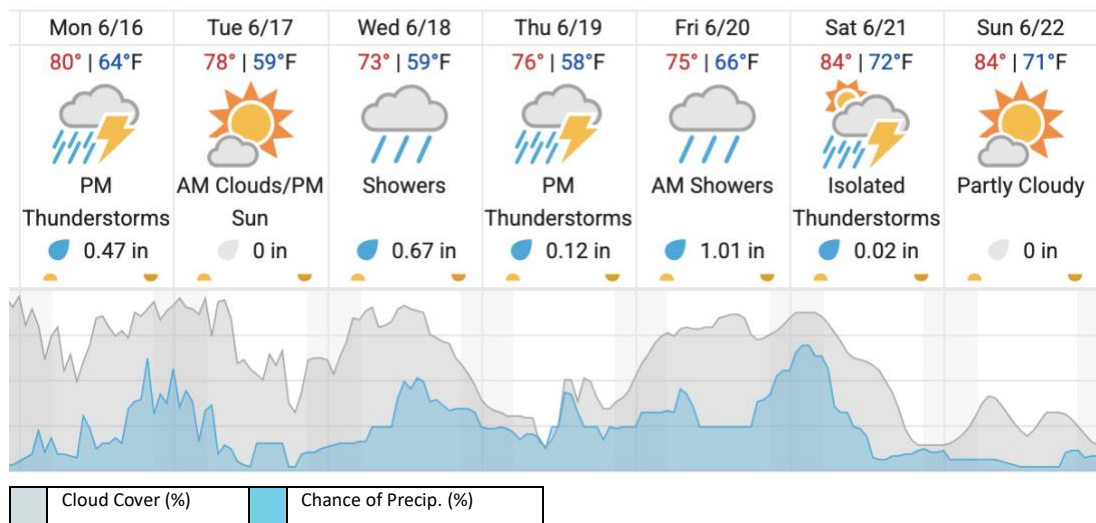
Boulder Junction, WI (UNDE, LIRO)



Tomahawk, WI (STEI-TREE)



Wausau, WI (FBO KAUW)



source: wunderground.com

Flyority 1

Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE),

Flight Plan Name: D05_STEI_TREE_R1_P1_P2_v3_Q780

On-station Time: 1420 UTC / 0920 L

Flyority 2

Collection Area: UNDERC (UNDE)

Flight Plan Name: D05_UNDE_C1_P1_v2_Q780

On-station Time: 1420 UTC / 0920 L

Flyority 3

Collection Area: Chequamegon-Nicolet National Forest (CHEQ)

Flight Plan Name: D05_CHEQ_R2_P1_v3_Q780

On-station Time: 1420 UTC / 0920 L

Flyority 4

Collection Area: Little Rock Lake (LIRO)-

Flight Plan Name: D05_LIRO_A1_P2_v2_Q780

On-station Time: 1420 UTC / 0920 L

Flyority 5

Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE)

Flight Plan Name: D05_STEI_TREE_R1_P1_P2_v3_Q780

On-station Time: 1420 UTC / 0920 L

Flight Crew: Mike (Lidar), Nick (NIS)