



Payload 3 Daily Flight Report

Date: 2025-09-17

Flight Campaign ID: P3C1

Airport, FBO ID, City: Tucson International Airport (KTUS) - Tucson, AZ; Four Corners Regional Airport (KFMN) - Farmington, NM; Central Colorado Regional Airport (KAEJ) - Buena Vista, CO

Aircraft: N821AR

Domain: 00 (Training & Calibration)

Sites Flown: Transit (KTUS -> KFMN -> KAEJ)

Days left in Domain: 6

Report Author: Mitch

Lidar Operators: Mitch **Flight Hours:** 02:11, 01:08

Spectrometer Operators: **Hours until maintenance:** 45.32

Pilots: Vince, Greg

Ground Crew: Matt

Summary

With an improved forecast for Boulder tomorrow, plans for tomorrow were revised to include both the Upper Taylor Watershed (UPTA) Camera Gap Fill flight plan but also a coincident radiometric calibration flight with Payload 2. To ensure the spectrometer remains within specification, the crew adjusted the original itinerary, foregoing an overnight in Farmington, where only 110V power was available, in favor of continuing to Buena Vista where 220V ground power was confirmed.

Concerns

None

Comments

None

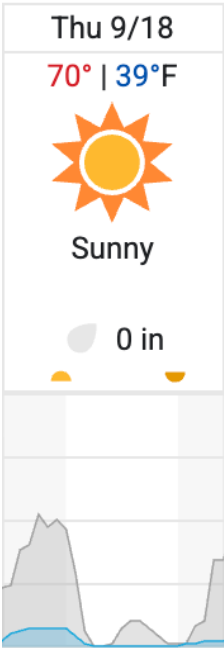
Pictures: Gorgeous views over the San Juan Mountains during the second leg of the transit.



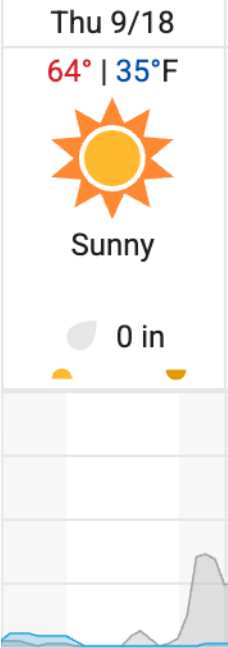


Weather Forecast

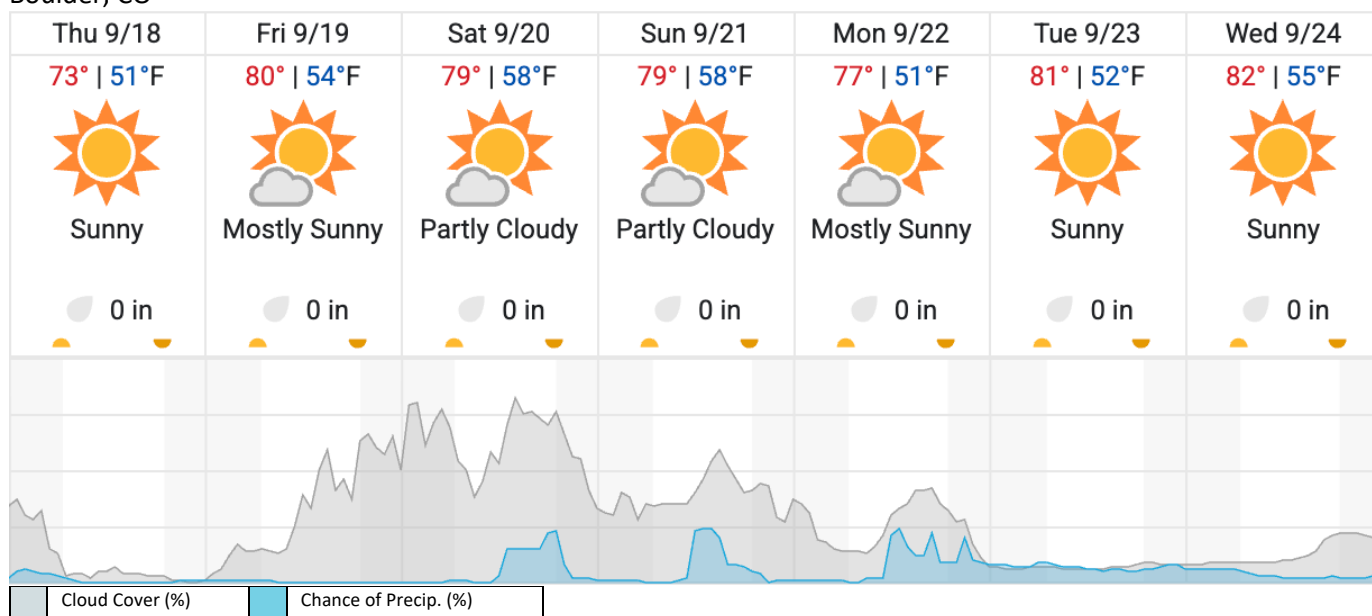
Buena Vista, CO (FBO)



Crested Butte, CO (UPTA)



Boulder, CO



source: wunderground.com

Flight Collection Plan for 18 September 2025

Flyority 1

Collection Area: Upper Taylor Watershed (UPTA) Camera Gap-fill flight plan

Flight Plan Name: D13_UPTA_S2_P3_v8_GF_flightlines

35° On-station Time: 1600 UTC / 1000 L

Flyority 2

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780

40° On-station Time: 1640 UTC / 1040 L

45° On-station Time: 1720 UTC / 1120 L

Additional Considerations: Ground should be dry.

Flyority 3

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10_B10E_Boresight_1600m_Q780

30° On-station Time: 1530 UTC / 0930 L

Additional Considerations: No recent snowfall, clear roofs required.

Flyority 4

Collection Area: Nominal Runway Survey Flight Plan

Name: D10_N10D_Nominal_Rnwy_v8_Q780

On-Station Time: Daylight – No solar angle restrictions.

Additional Considerations: Runway should not be wet or snow covered.

Flyority 5

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10_H10C_HQ_val_v1_Q780

On-Station Time: Daylight – No solar angle restrictions.

Flyority 6

Collection Area: Wiggle Timing Test

Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780

40° On-station Time: 1640 UTC / 1040 L

Additional Considerations: Runway should not be wet, or snow covered.

Flyority 7

Collection Area: NIS Offset Flight

Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780

35° On-station Time: 1600 UTC / 1000 L

Crew: Mitch (Lidar), TBD (NIS), TBD (Ground)