



Payload 2 Daily Flight Report

Date: 2025-09-11

Flight Campaign ID: P2C1

Airport, FBO ID, City: Boulder, CO (KBDU)

Aircraft: N615AR

Domain: 00

Sites Flown: None

Days left in Domain: 7

Report Author: Mike

Lidar Operators: Mike

Spectrometer Operators: John

Pilots: Justin, Jacob

Flight Hours: 0:00

Hours until maintenance: 123.9

GPS Instruments: none

Summary

AOP lab staff was able to resolve the erroneous temperature reading issue on NIS-2. Also, a kick-off meeting was held with ITRES engineers for the coincidental spectrometer collections planned during post-season calibration flights. It is anticipated that the payload will begin cooling this evening or tomorrow morning. The ITRES sensor is expected to arrive tomorrow with first flights potentially occurring on Saturday.

Concerns

None

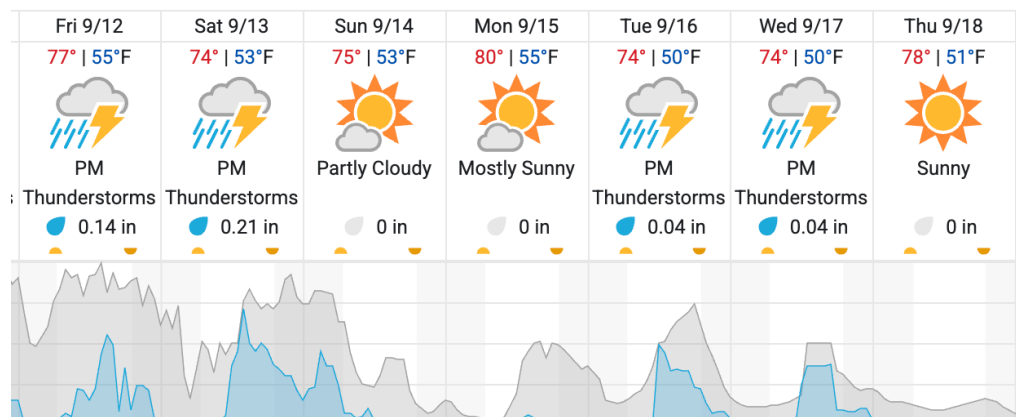
Comments

-It was discovered that a sensing wire for the internal chamber thermistor of the NIS-2 has become disconnected. This creates erroneous temperature readings for the FPA. A jumper wire on the back of the Lakeshore was installed, restoring workable connectivity. With this fix in place, operations can resume.

-The ITRES sensor appears to have cleared customs and should be delivered soon. Installation to occur upon arrival.

Weather

Boulder, CO



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

Plan for September 10-13, 2025

Flyority 1

Collection Area: Table Mountain Radiometric Calibration

Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v2_VQ780

45° On-station Time: 1653 UTC / 1053 L

Additional Considerations: Ground should be dry.

Collection Area: Boulder Airport Radiometric Calibration

Flight Plan Name: D10_R10D_Rad_Cal_KBDU_v2_VQ780

45° On-station Time: 1653 UTC / 1053 L

Additional Considerations: Ground should be dry.

Flyority 2

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10_B10E_Boresight_VQ780 (RiAcquire name: D10_B10E_Boresight_Apx_VQ780)

30° On-station Time: 1520 UTC / 0920 L

Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3

Collection Area: Nominal Runway Survey Flight Plan

Name: D10_N10D_Nominal_Rnwy_v13_VQ780

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

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

Flyority 4

Collection Area: NEON HQ Lidar Validation

Flight Plan Name: D10_H10C_HQ_val_v2_VQ780

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

Flyority 5

Collection Area: Wiggle Timing Test

Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780

40° On-station Time: 1620 UTC / 1020 L

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

Flyority 6

Collection Area: Black Forest

Flight Plan Name: D10_BLKF_Black_Forest_v6_VQ780_ftlines

40° On-station Time: 1620 UTC / 1020 L

Flyority 7

Collection Area: Boulder City Nominal Science Flight

Flight Plan Name: D10_V10C_East_v7B_Q780_ftlines

40° On-station Time: 1620 UTC / 1020 L

Crew: Lidar: John, NIS: Mike, Ground: Nick