

Payload 2 Daily Flight Report



Date: 2020-08-07 Flight Campaign ID: P2C1 Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 13 (Southern Rockies & Colorado Plateau) Sites Flown: NIWO (Niwot Ridge Mountain Research Station), WLOU (West St. Louis Creek) Days left in Domain: 4

Report Author: Robb Walker Lidar Operators: Robb Walker Spectrometer Operators: Ivana Vu Ground Crew: Michael Wussow

Flight Hours: 03:06 Hours until maintenance: 28.43 Pilots: Justin Eddington, Stephen Brawders GPS Instruments: 01 - WLOU, 05 - NIWO, AOP_KBDU

Summary

Payload 2 crew woke to clear skies this morning, completing NEON science flights in D13 pending review of data. Focus will now shift to calibration and engineering test flights going forward.

Concerns

None

Comments

Digitizer was cycled several times before re-flight of WLOU lines, but unsuccessful in bringing waveform pulse visual online.

Daily Coverage

Estimated Cloud Cover Key

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

D13|NIWO

Line #	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Lidar	\checkmark													
Spectrometer	\checkmark													
Camera	\checkmark													
Cloud Cover														

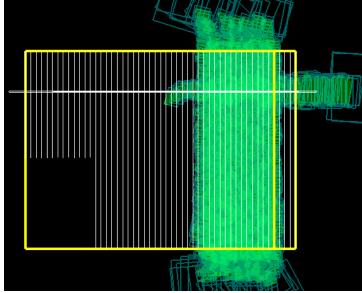
Total number of lines flown: 14

D13|WLOU

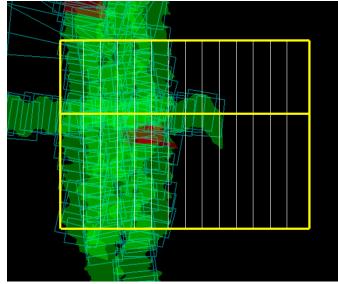
Line #	10	11	12	13	14
Lidar	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Spectrometer	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Camera	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Cloud Cover					

Total number of lines flown: 5

Flight Screenshots



Lidar (NIWO)



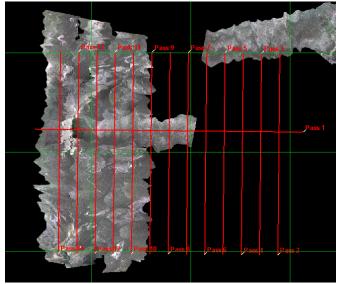
Lidar (WLOU)

Cumulative Domain Coverage

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NIS (WLOU)

D13 NIWO (Niwot Ridge Mountain Research Station)																			
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 27 28 29 30 32 33 26 31 34 41 42 43 44 45 46 47 48 49 50 51 52 Flown: 100% (52/52) Green: 100% (52/52) Yellow: 0% (0/52) Red: 0% (0/52) D13 WLOU (West St. Louis Creek) 2 3 4 5 6 7 8 9 10 11 12 13 14 1 Flown: 100% (14/14)

Green: 100% (14/14) Yellow: 0% (0/14) Red: 0% (0/14)

Weather Forecast

Boulder, CO (Calibration) Wed 8/12 Thu 8/13 Sat 8/8 Sun 8/9 Mon 8/10 Tue 8/11 Sat 8/8 94° | 64°E 94° | 61°E 87° | 60°E 89° | 61°F 89° | 60°F 90° | 60°F 96° | 57°F Mostly Sunny Mostly Sunny Mostly Sunny Mostly Sunny Partly Cloudy Mostly Sunny Mostly Sunny 0 in 0 in 0 in 0 in 0 in 0 in 0 in

Greeley, CO (Boresight)

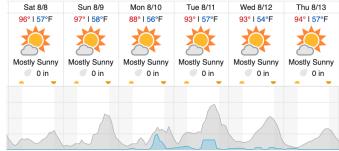
35

36 37

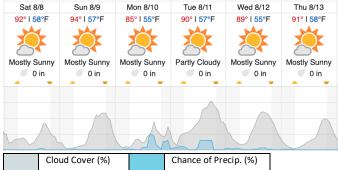
38

39

40



Nunn, CO (CPER)



Flight Collection Plan for 08 August 2020

Flyority 1

Collection Area: Radiometric Calibration at Table Mountain Flight Plan Name: D10_R10A_Radiometric_Calibration_Table_Mountain_v1.pln On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC **Flyority 2** Collection Area: Boresight Calibration – Geo-calibration at Greeley Flight Plan Name: D10_B10B_Greeley_Boresight_Geocalibration_Plan_v8.pln On-station Time: 0900 – 1710 Local / 1500 – 2310 UTC **Flyority 3** Collection Area: Nominal Runway Flight Plan Name: D10_N10C_Nominal_Runway_Test_v8.pln **Flyority 4** Collection Area: Wiggle Timing Test Flight Plan Name: D10_W10B_Wiggle_Test_v6.pln

Flyority 5

Collection Area: NEON HQ LIDAR Validation Flight Plan Name: D10_H10B_HQ_LIDAR_validation_v1.pln Flyority 6 Collection Area: NIS Offset Flight Flight Plan Name: D10_O10A_NIS_Offset_v1.pln On-station Time: 0930 – 1650 Local / 1530 – 2250 UTC Flyority 7 Collection Area: Satellite Overpass Coincident Collection Flight Plan Name: D10_CPER_C1_P1_v4.pln On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC Flyority 8 Collection Area: D10 BRDF Flight – Central Plains Ecological Range Flight Plan Name: D10_F10A_BRDF_v1.pln On-station Time: 0950 – 1620 Local / 1550 – 2220 UTC Crew members: Ivana (Lidar), Mike (NIS), John (Ground); Dave and Robb (Tarps)

Flight Collection Plan for 09 August 2020

Flyority: Same as previous day Crew members: Mike (Lidar), Ivana (NIS), John (Ground); Tristan and Alok (Tarps)