



Payload 2 Daily Flight Report



Date: 2020-07-29

Flight Campaign ID: P2C1

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

Domain: 13 (Southern Rockies & Colorado Plateau)

Sites Flown: WLOU (West St. Louis Creek)

Days left in Domain: 13

Report Author: Ivana Vu

Lidar Operators: Ivana Vu

Spectrometer Operators: Michael Wussow

Pilots: Stephen Brawders, Chad Evans

Ground Crew: John Adler

Flight Hours: 02:02

Hours until maintenance: 36.83

GPS Instruments: 01 - WLOU, AOP_KBDU

Summary

Clouds developed early at NIWO this morning so we diverted to the WLOU aquatic site where it was still clear. The flight box was completed in mixed sky conditions and moderate turbulence.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

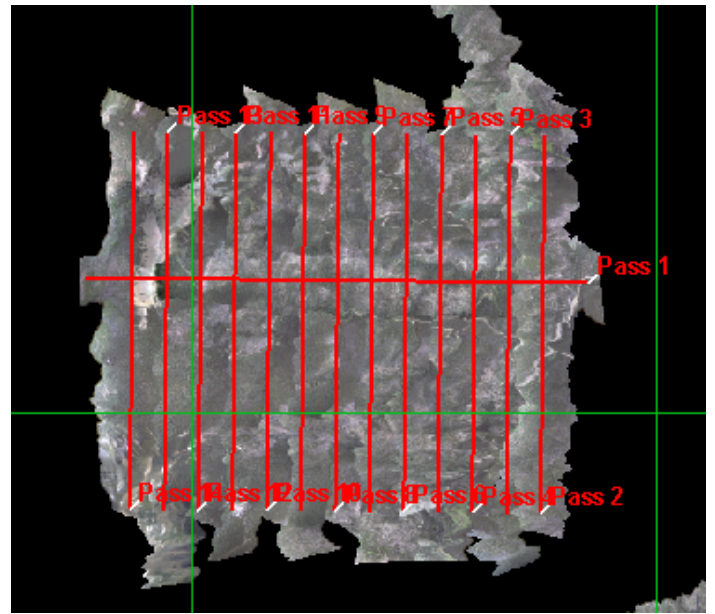
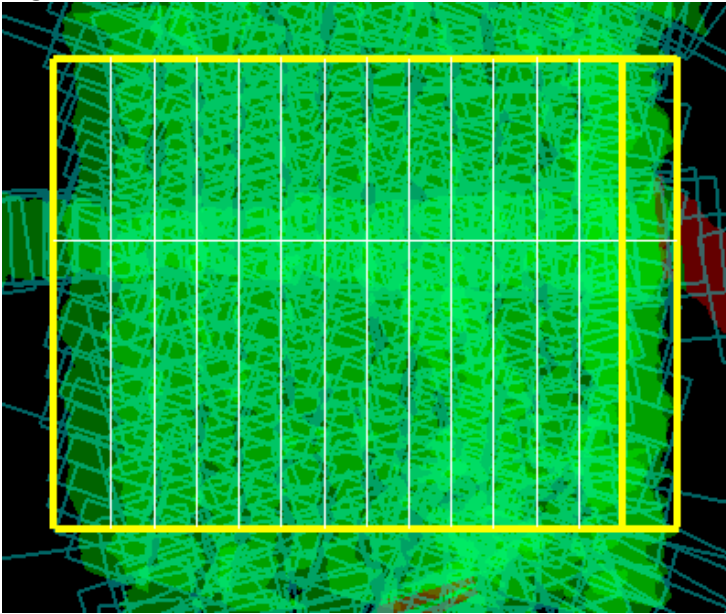
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D13|WLOU

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	1	2
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover															

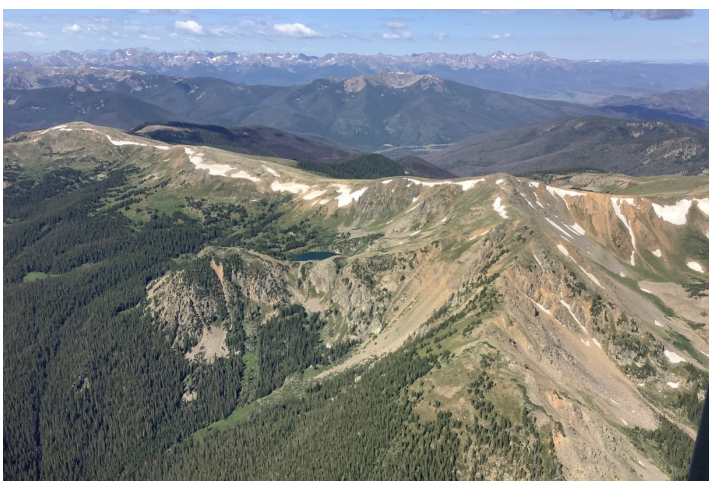
Total number of lines flown: 15

Flight Screenshots



Pictures

Views of Arapaho National Forest from WLOU site, including a herd of elk that Mike Wussow was able to spot



Cumulative Domain Coverage

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	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52								

Flown: 48% (25/52)

Green: 48% (25/52)

Yellow: 0% (0/52)

Red: 0% (0/52)

D13|WLOU (West St. Louis Creek)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 100% (14/14)

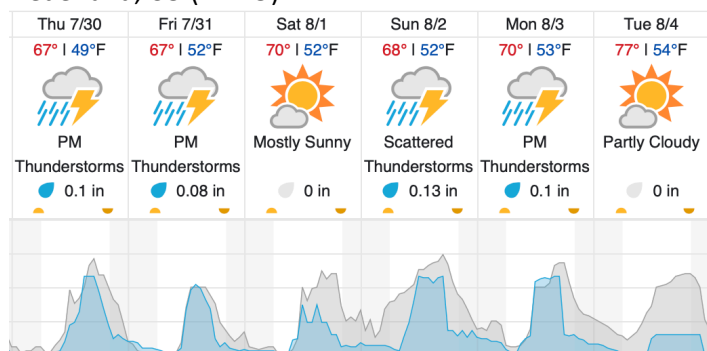
Green: 57% (8/14)

Yellow: 43% (6/14)

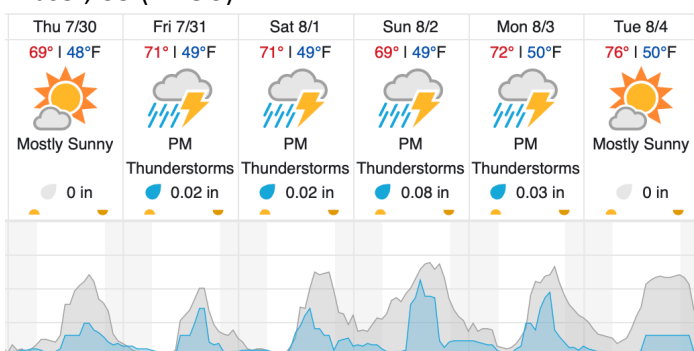
Red: 0% (0/14)

Weather Forecast

Nederland, CO (NIWO)



Fraser, CO (WLOU)



Cloud Cover (%)	Chance of Precip. (%)
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Flight Collection Plan for 30 July 2020

Flyority 1

Collection Area: Niwot Ridge Mountain Research Station (NIWO), Lines 2-28

Flight Plan Name: D13_NIWO_C1_P1_v4.pln

On-station Time: 0940 – 1640 Local / 1540 – 2240 UTC

Flyority 2

Collection Area: West St Louis Creek (WLOU), Lines 10-14 if conditions are “green”

Flight Plan Name: D13_WLOU_A1_P1_v1.pln

On-station Time: 0940 – 1640 Local / 1540 – 2240 UTC

Crew Members: Mike (Lidar), Ivana (NIS), John (Ground)

Flight Collection Plan for 31 July 2020

Flyority: Same as Previous Day

Crew Members: Robb (Lidar), Ivana (NIS), John (Ground)