



Payload 2 Daily Flight Report



Date: 2020-07-30

Flight Campaign ID: P2C1

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

Domain: 00 (Training & Calibration), 13 (Southern Rockies & Colorado Plateau)

Sites Flown: N10E (Nominal Runway at KBDU - Reverse)

Days left in Domain: 12

Report Author: Michael Wussow

Lidar Operators: Michael Wussow

Flight Hours: 01:10

Spectrometer Operators: Ivana Vu

Hours until maintenance: 35.67

Pilots: Stephen Brawders, Chad Evans

GPS Instruments: AOP_KBDU

Ground Crew: John Adler

Summary

With cumulus present all over, attention was turned to the N10E Reverse Nominal Runway engineering test flight. The full plan was collected over the Boulder Airport without any issues.

Concerns

None

Comments

Other engineering and calibration test flights are being developed and added to the to-do list including BRDF and coincident satellite pass-over flights.

Daily Coverage

Estimated Cloud Cover Key

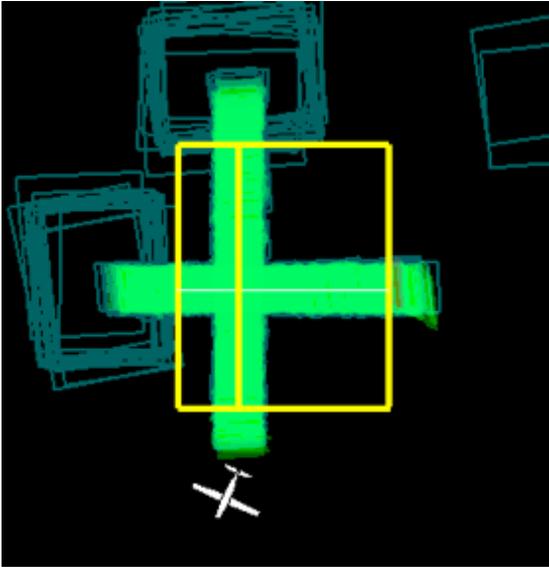
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D00|N10E

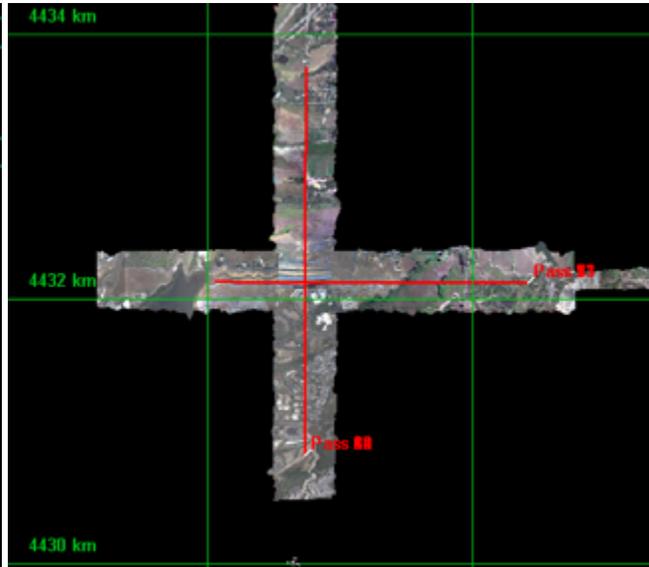
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover														

Total number of lines flown: 14

Flight Screenshots



Lidar N10E



NIS N10E

Pictures



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)

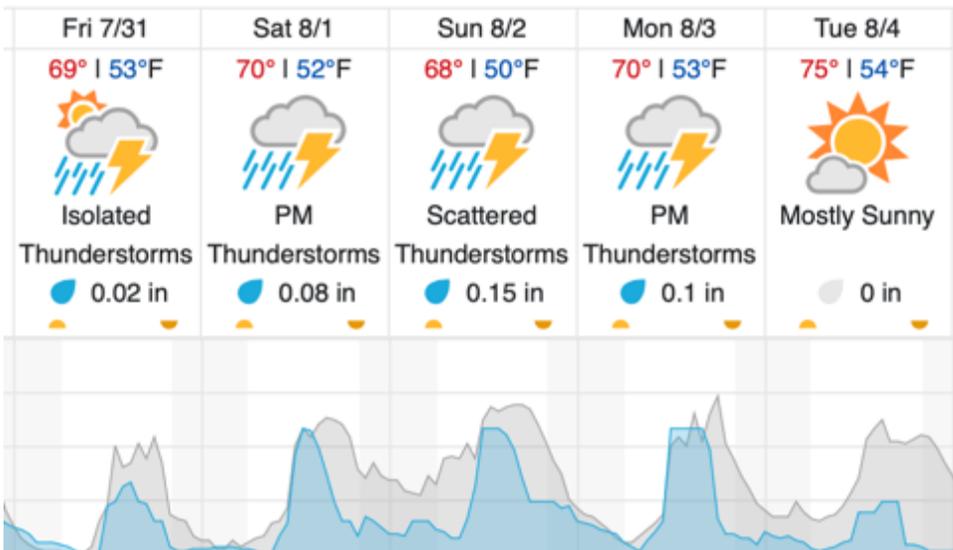
D00 | N10E (Nominal Runway at KBDU - Reverse)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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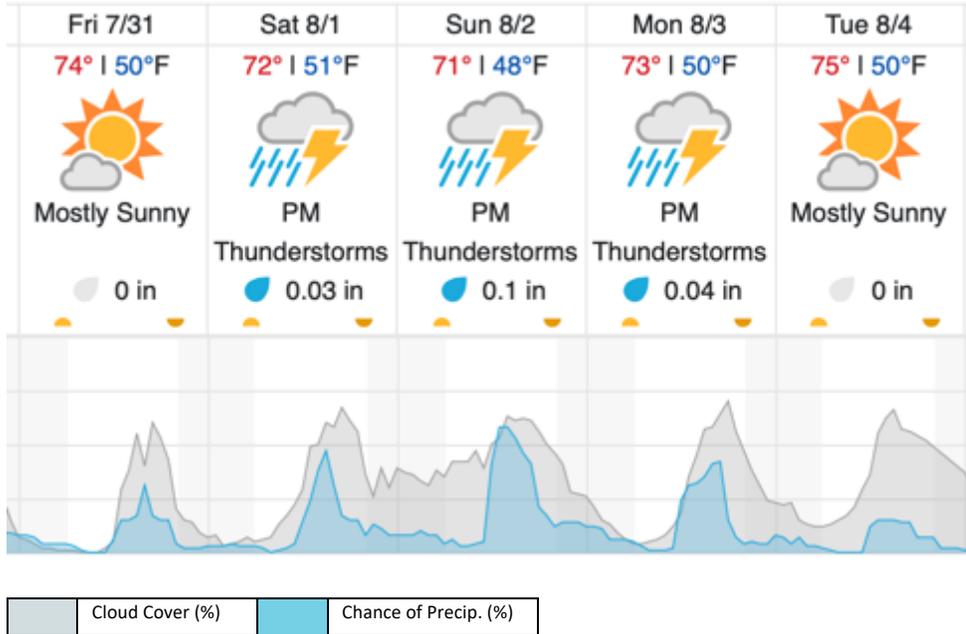
Flown: 100% (14/14)
 Green: 0% (0/14)
 Yellow: 100% (14/14)
 Red: 0% (0/14)

Weather Forecast

Nederland, CO



Fraser, CO



Flight Collection Plan for 31 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: Robb (Lidar), Ivana (NIS), John (Ground)

Flight Collection Plan for 01 August 2020

Flyority: Same as Previous Day

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