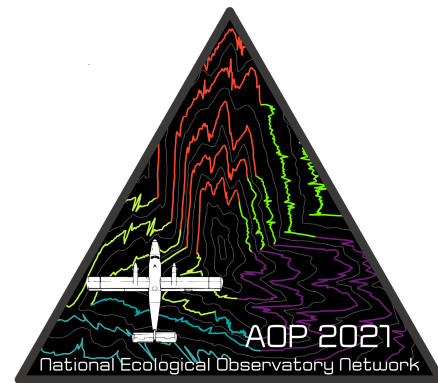




Payload 3 Daily Flight Report



Date: 2021-05-24

Flight Campaign ID: P3C1

Airport, FBO ID, City: Salt Lake City International Airport (KSLC) - Salt Lake City, UT, Southwest Wyoming Regional Airport (KRKS) - Rock Springs, WY, Boulder Municipal Airport (KBDU) – Boulder, CO

Aircraft: N615AR

Domain: 00 (Training & Calibration), 10 (Central Plains)

Sites Flown: Transit (KSLC -> KRKS -> KBDU)

Days left in Domain: 15

Report Author: Mitch Haynes

Lidar Operators: Mitch Haynes

Flight Hours: 01:13, 01:34

Spectrometer Operators: John Adler

Hours until maintenance: 22.98

Pilots: Stephen Brawders, Mark Solper

Ground Crew: Cameron Chapman, Matt Devoe

Summary

After completing D15 collections over the weekend, the crew successfully transit the aircraft back to Boulder in anticipation of D10 flights. Accommodations were made to be prepared for a potential coincident foliar sampling collect and AOP survey flight over CPER had conditions been adequate today; however by the time the Otter landed in Boulder, cumulus clouds had already formed over the site.

Concerns

None

Comments

- In addition to completing D10 flights over CPER, STER, and ARIK, crew will to complete two remaining calibration flights (Radiometric and NIS Offset) that were unable to be completed earlier in the season due to poor weather. Based off the current forecast, a clear sky window is anticipated over Table Mountain tomorrow morning.
- Aircraft maintenance will be conducted following tomorrow morning's flight.
- NIS warming to reset the blue quantum shift to be delayed till later this week to align with a forecasted stretch of poor weather.

Cumulative Domain Coverage

D00|O10B (NIS Offset - Riegl)

1	2
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Flown: 0% (0/2)

Green: 0% (0/2)

Yellow: 0% (0/2)

Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

1	2	3	4	5
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Flown: 0% (0/5)

Green: 0% (0/5)

Yellow: 0% (0/5)
 Red: 0% (0/5)

D10|ARIK (Arikaree River)

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						

Flown: 0% (0/35)
 Green: 0% (0/35)
 Yellow: 0% (0/35)
 Red: 0% (0/35)

D10|CPER (Central Plains Ecological Range)

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													

Flown: 0% (0/28)
 Green: 0% (0/28)
 Yellow: 0% (0/28)
 Red: 0% (0/28)

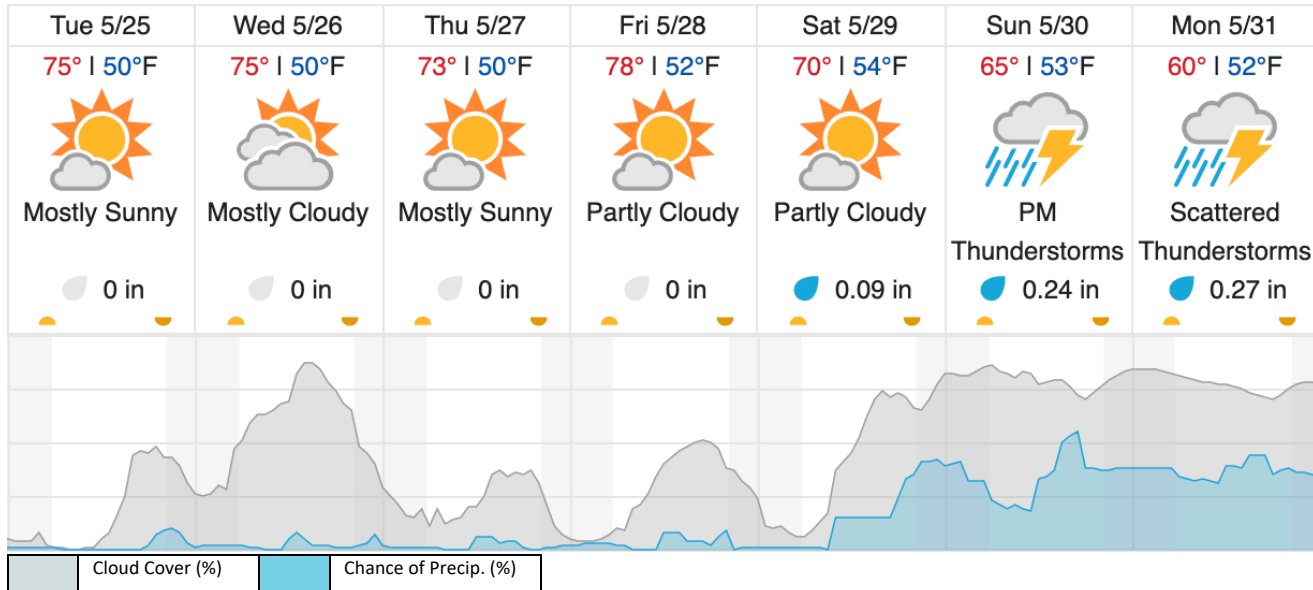
D10|STER (Sterling Agricultural Site)

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																

Flown: 0% (0/25)
 Green: 0% (0/25)
 Yellow: 0% (0/25)
 Red: 0% (0/25)

Weather Forecast

Boulder, CO



source: wunderground.com

Flight Collection Plan for 25 May 2021

Calibration Flyority 1
 Collection Area: Table Mountain Radiometric Calibration
 Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
 On-station Time: 1545 UTC / 0945 L

Calibration Flyority 2

Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
On-station Time: 1510 UTC / 0910 L

Science Flyority 1
Collection Area: Central Plains Ecological Range (CPEP)
Flight Plan Name: D10_CPER_C1_P1_v6_Q780
On-station Time: 1500 UTC / 0900 L

Science Flyority 2
Collection Area: Sterling Agricultural Site (STER)
Flight Plan Name: D10_STER_R1_P1_v3_Q780
On-station Time: 1450 UTC / 0850 L

Science Flyority 3
Collection Area: Arikaree River (ARIK)
Flight Plan Name: D10_ARIK_A1_P2_v3_Q780
On-station Time: 1510 UTC / 0910 L

Flight Crew: Cam (Lidar), Mitch (NIS), Matt (Ground)
Tarp Crew: Bridget, John