



Payload 1 Daily Flight Report



Date: 2022-10-20

Flight Campaign ID: P1C1

Airport, FBO ID, City: Rafeal Hernandez International Airport (TJBQ) - Aguadilla, Puerto Rico

Aircraft: N331AR

Domain: 04 (Atlantic Neotropical)

Sites Flown: R04A (Radiometric Calibration), CUPE (Rio Cupeyes)

Days left in Domain: 23

Report Author: Abe

Lidar Operators: Abe

Spectrometer Operators: Cameron

Pilots: Justin , Brent

Flight Hours: 01:11

Hours until maintenance: 74.02

GPS Instruments: 04 - FBO_TBJQ, C-PRMI

Summary

In conjunction with the AOP science staff that is on the ground here in D04, it was decided that we could proceed with a 35deg solar angle for the radiometric calibration flight. The crew took to the air and arrived on site just at the early solar angle. The 5 lines of that flight plan were completed in "green" sky conditions. After that short flight plan and with low cumulus clouds starting to form, the only site that was flyable was the CUPE site. We completed 3 lines and a cross strip in "yellow" sky conditions, before the clouds forming below us halted the collection.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D04|CUPE

Line #	1	5	6	7
Lidar	✓	✓	✓	✓
Spectrometer		✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 4

D04 | R04A

Line #	1	2	3	4	5
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

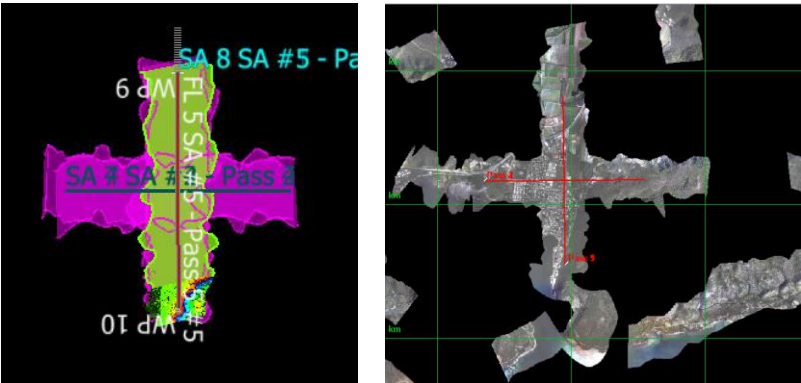
Total number of lines flown: 5

Flight Screenshots

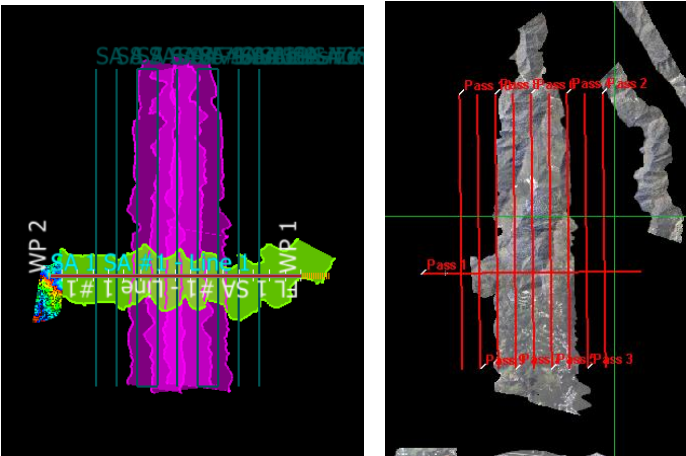
Lidar

NIS

R04A



CUPE



Cumulative Domain Coverage

D04 | CUPE (Rio Cupeyes)

1	2	3	4	5	6	7	8	9	10
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Flown: 40% (4/10)
Green: 0% (0/10)
Yellow: 40% (4/10)
Red: 0% (0/10)

D04|GUAN (Guanica Forest)

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						

Flown: 0% (0/34)
Green: 0% (0/34)
Yellow: 0% (0/34)
Red: 0% (0/34)

D04|GUIL (Rio Guilarte)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Flown: 0% (0/15)
Green: 0% (0/15)
Yellow: 0% (0/15)
Red: 0% (0/15)

D04|LAJA (Lajas Experimental Station)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22																		

Flown: 0% (0/22)
Green: 0% (0/22)
Yellow: 0% (0/22)
Red: 0% (0/22)

D04|N04C (D04 Nominal Runway)

1	2
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Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)

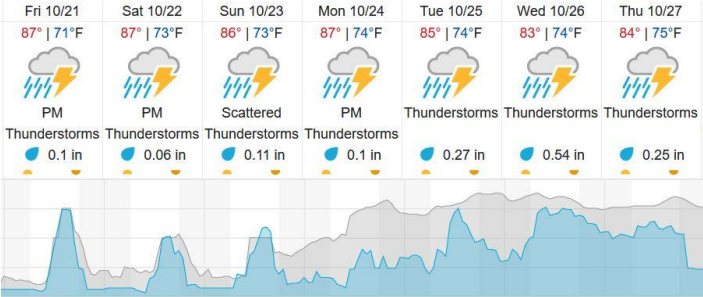
D04|R04A ()

1	2	3	4	5
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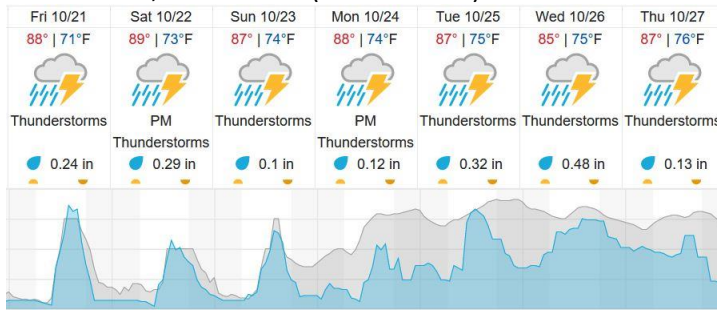
Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

Weather Forecast

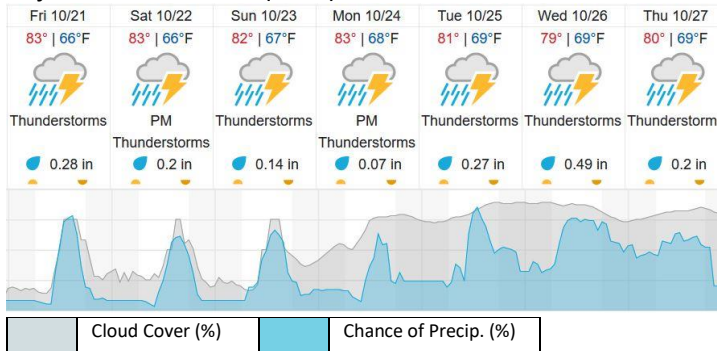
Guayanilla, Puerto Rico (GUAN)



San German, Puerto Rico (LAJA & CUPE)



Adjuntas Puerto Rico (GUIL)



source: wunderground.com

Flight Collection Plan for 21 October 2022

Flyority 1

Collection Area: Guanica Forest (GUAN)

Flight Plan Name: D04_GUAN_C1_P1_v1_PRM.xml

On-station Time: 1330 UTC / 0930 L

Flyority 2

Collection Area: Lajas Experimental Station (LAJA)

Flight Plan Name: D04_LAJA_R1_P1_v6_PRM.xml

On-station Time: 1330 UTC / 0930 L

Flyority 3

Collection Area: Rio Cupeyes (CUPE)

Flight Plan Name: D04_CUPE_A1_P1_v1_PRM.xml

On-station Time: 1330 UTC / 0930 L

Flyority 4

Collection Area: Rio Guilarte (GUIL)

Flight Plan Name: D04_GUIL_A2_P1_v2_PRM.xml

On-station Time: 1330 UTC / 0930 L

Flyority 5

Collection Area: D04 Nominal Runway

Flight Plan Name: D04_N04C_Nominal_Runway_Test_v1_PRM.xml

On-station Time: NA

CREW:

NIS: Abraham

Lidar: Cam