



May 21, 2018 Payload 2 Daily Flight Report



Date: 2018-05-21

Flight Campaign ID: 2018_P2C1

Airport, FBO ID, City: Fernando Luis Ribas Dominicci Airport (TJIG) - San Juan, Puerto Rico

Domain: 04

Sites Flown: GUIL (Rio Guilarte)

Days left in Domain: 3

Report Author: Michael Wussow

Flight Crew: Michael Wussow, John Adler

Ground/GPS: Mitch Haynes

Pilots: Stephen Brawders, Wesley Wyatt

Additional Personnel: None

GPS Instruments: 01 - FBO_TJIG, C-PRGY

Flight Hours: 02:14

Hours until maintenance: 75.18

Summary

With the consistency of clouds developing by 0900L near GUIL, and early morning flight was conducted to attempt a collect before their development. The entire GUIL box was flown under yellow conditions, although before the 40 degree solar angle time 0900L. We loitered in air for 15 minutes to see if we could get some lines within the solar angle, but clouds had developed as if a switch was flipped at our solar angle start.

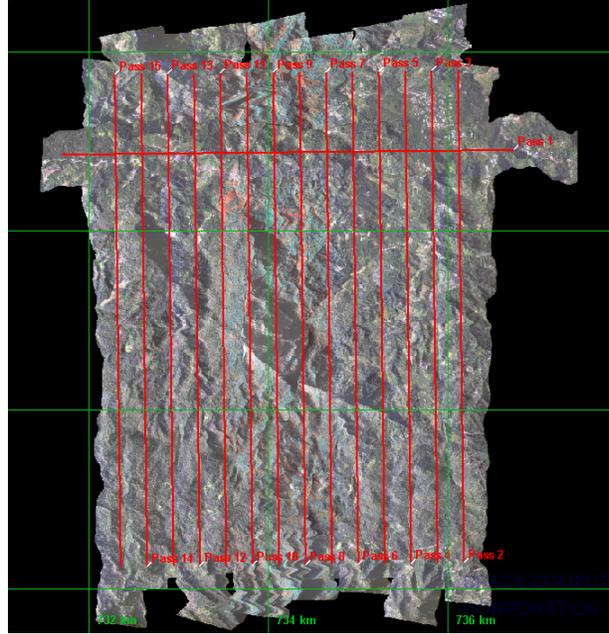
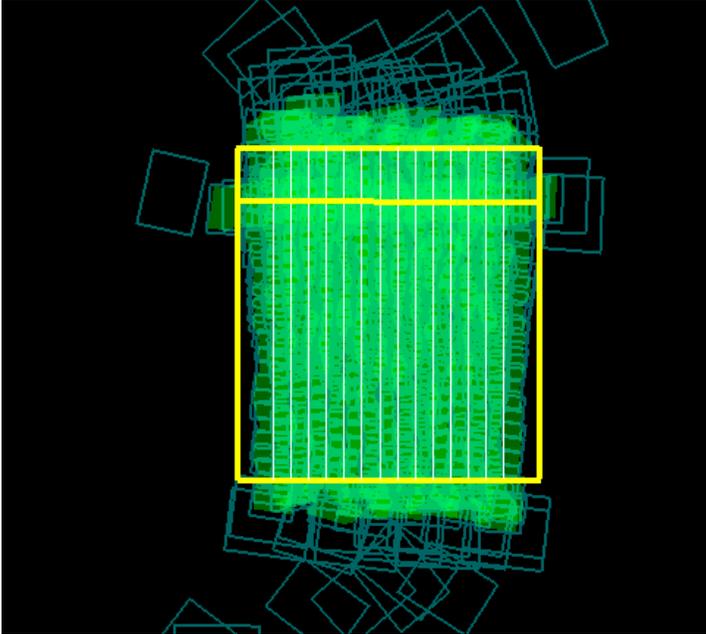
Concerns

Lidar waveform extraction is still continuing to give us trouble. Fernando has been instrumental in keeping the processing pipeline going.

Comments

All survey boxes have been flown under a combination of red and yellow conditions, except for the LAJA box that is within the restricted area. We will continue to hope for a clear day and check in to see if the aerostat balloon is grounded and permission to enter is granted.

Flight Screenshots



Pictures



Another look at the Arecibo Radio Telescope in built into the karst hills.



Clouds developing at survey altitude over aquatic site Rio Guilarte at 0900L.

Daily Coverage

D04 GUIL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	2				✓	✓	✓	NLC
	3				✓	✓	✓	NLC
	4				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
Flown:	15							

Cumulative Domain Coverage

GUAN

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: 100% (34/34)

Green: 0% (0/34)

Yellow: 12% (4/34)

Red: 109% (37/34)

CUPE

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

Green: 0% (0/10)

Yellow: 90% (9/10)

Red: 50% (5/10)

GUIL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Flown: 100% (15/15)

Green: 0% (0/15)

Yellow: 100% (15/15)

Red: 0% (0/15)

LAJA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23																		

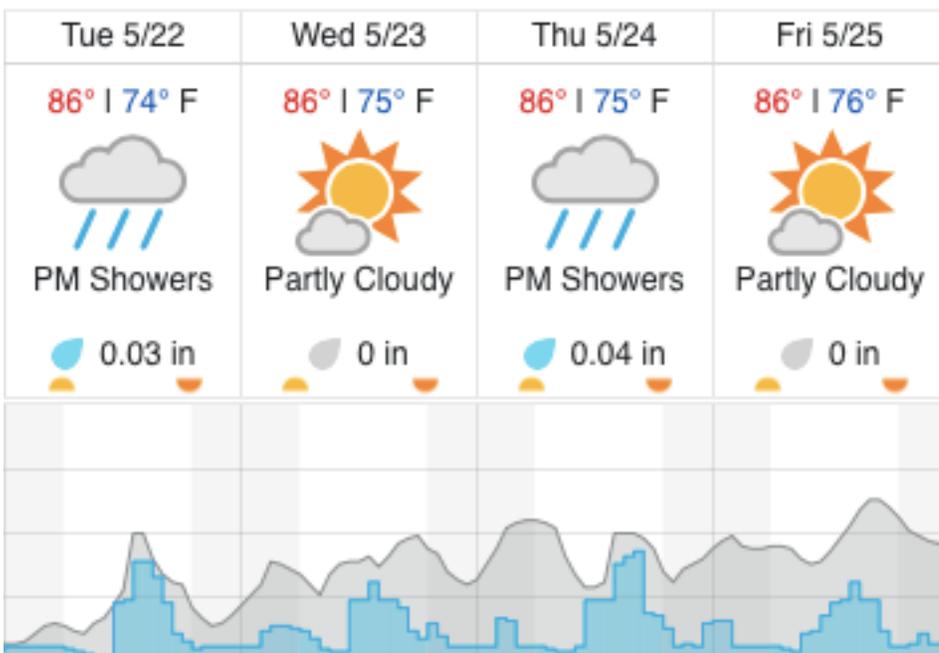
Flown: 96% (22/23)

Green: 0% (0/23)

Yellow: 48% (11/23)

Red: 61% (14/23)

Weather Forecast Gaunica, PR



Flight Collection Plan for 22 May 2018

Flight Priority (Flyority) 1:

Collection Area: Guanica Forest (GUAN)
Flight Plan Name: D04_GUAN_C1_P1_v1.pln
On-station Time: 1300 UTC / 0900 L
Lines 1-34 if green conditions exist.

Flyority 2:

Collection Area: Lajas Experimental Station (LAJA)
Flight Plan Name: D04_LAJA_R1_P1_v3.pln
On-station Time: 1300 UTC / 0900 L
Lines 1-23 if green conditions exist.

Flyority 3:

Collection Area: Rio Cupeyes (CUPE)
Flight Plan Name: D04_CUPE_A1_P1_v1.pln
On-station Time: 1300 UTC / 0900 L
Lines 1-10 if green conditions exist.

Flyority 4:

Collection Area: Rio Guilarte (GUIL)
Flight Plan Name: D04_GUIL_A2_P1_v1.pln
On-station Time: 1300 UTC / 0900 L
Lines 1-15 if green conditions exist.

Crew: Mitch Haynes (Lidar), Michael Wussow (NIS), John Adler (Ground)