



## May 10, 2018 Payload 2 Daily Flight Report



**Date:** 2018-05-10

**Flight Campaign ID:** 2018\_P2C1

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

**Domain:** 04

**Sites Flown:** GUAN (Guanica Forest)

**Days left in Domain:** 15

**Report Author:** Michael Wussow

**Flight Crew:** Michael Wussow, Heather Rogers, Mitch Haynes

**Flight Hours:** 03:45

**Ground/GPS:** Mitch Haynes

**Hours until maintenance:** 90.55

**Pilots:** Stephen Brawders, Wesley Wyatt

**Additional Personnel:**

**GPS Instruments:** 01 - FBO\_TJIG, 02 - GUAN, C-PRGY

### Summary

The first flight in D04 was completed over the Guanica Forest site today with mostly cloudy conditions. We were able to complete the western half under red conditions.

### Concerns

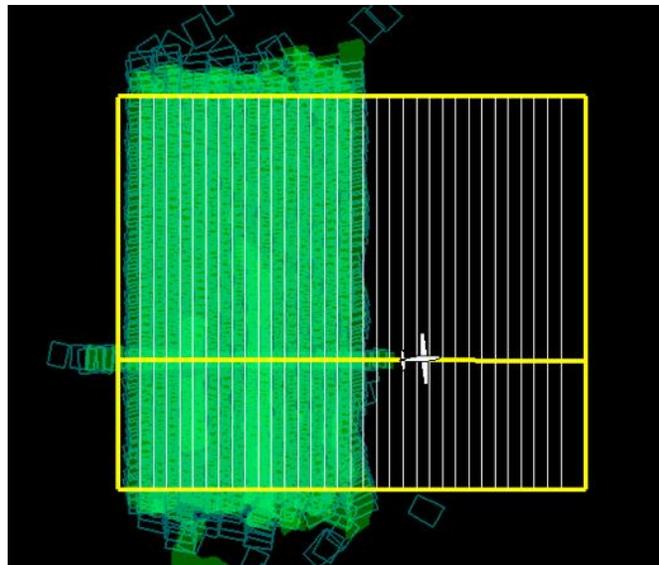
Issues with the pilot display and spectrometer resulted in approximately 20 minutes of loitering to troubleshoot. These were resolved in-air, but have been left as open issues as the definite causes are unknown. See below.

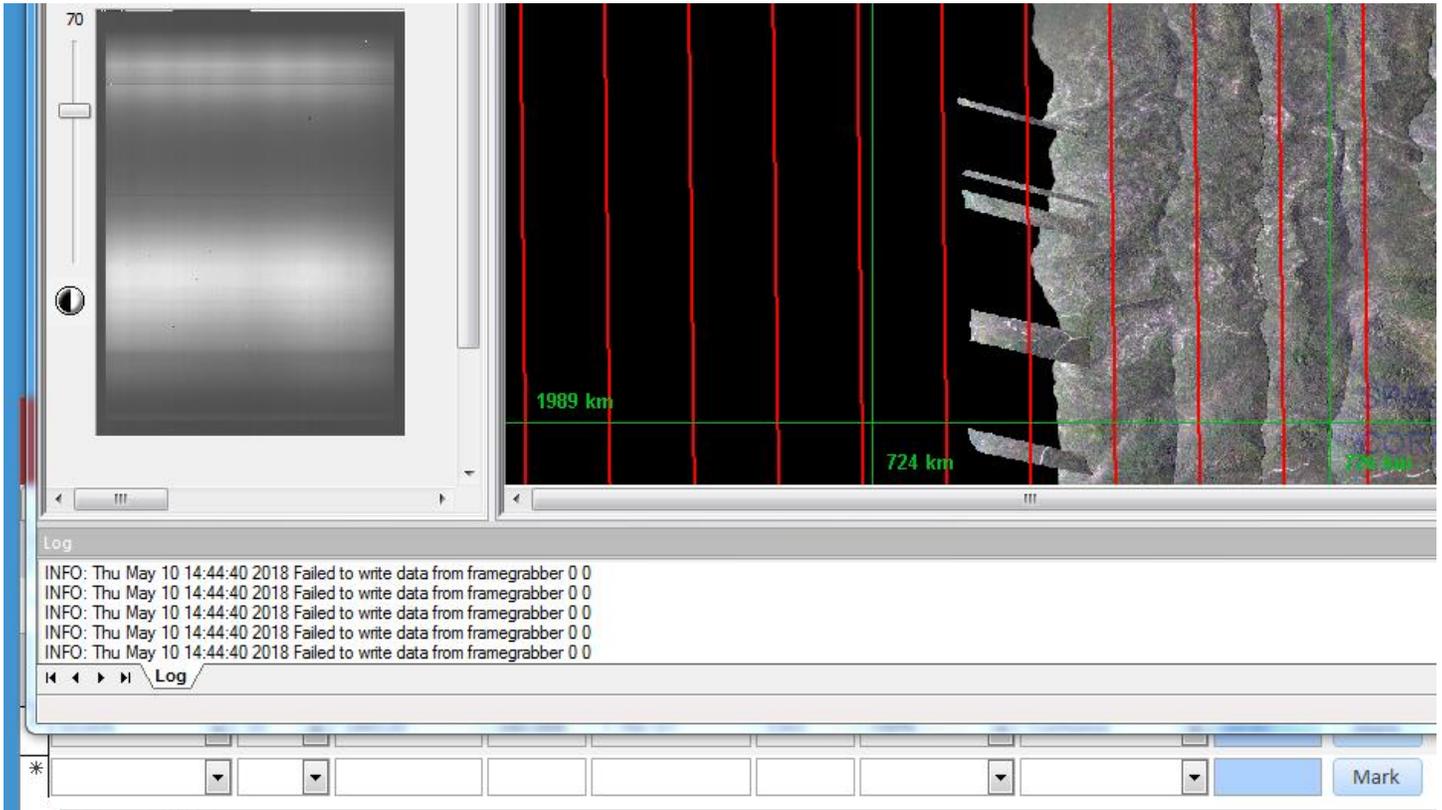
### Comments

Mike completed his Optech Lidar re-certification with today's flight.

Dr. Carla Restrepo of the University of Puerto Rico – Rio Piedras Department of Biology brought a group of students by the hangar today for a plane tour. Thanks for the visit!

### Flight Screenshots





NIS error during today's flight. Required full DCC restart to resolve.

## Pictures



Isla de Gilligan, south of the Guanica Forest (Photo: Mitch Haynes)



Dr. Carla Restrepo and company of the University of Puerto Rico – Rio Piedras Department of Biology touring the Otter today

**Daily Coverage**

D04 GUAN	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
	20				✓	✓	✓	NLC
	21				✓	✓	✓	NLC
	22				✓	✓	✓	NLC
	23				✓	✓	✓	NLC
	24				✓	✗	✗	N
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC
	27				✓	✓	✓	NLC
	28				✓	✓	✓	NLC
	29				✓	✓	✓	NLC
	30				✓	✓	✓	NLC
	31				✓	✓	✓	NLC
	32				✓	✓	✓	NLC
	33				✓	✓	✓	NLC
	34				✓	✓	✓	NLC
Flown:	18							

## 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: 53% (18/34)

Green: 0% (0/34)

Yellow: 0% (0/34)

Red: 53% (18/34)

### CUPE

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

Green: 0% (0/10)

Yellow: 0% (0/10)

Red: 0% (0/10)

### GUIL

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)

### LAJA

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										

Flown: 0% (0/30)

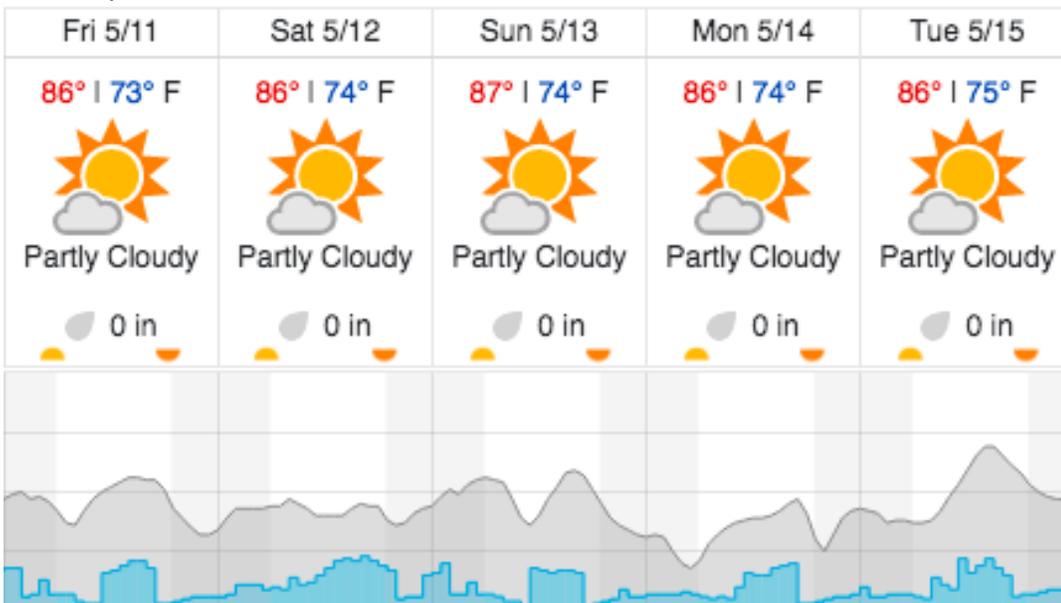
Green: 0% (0/30)

Yellow: 0% (0/30)

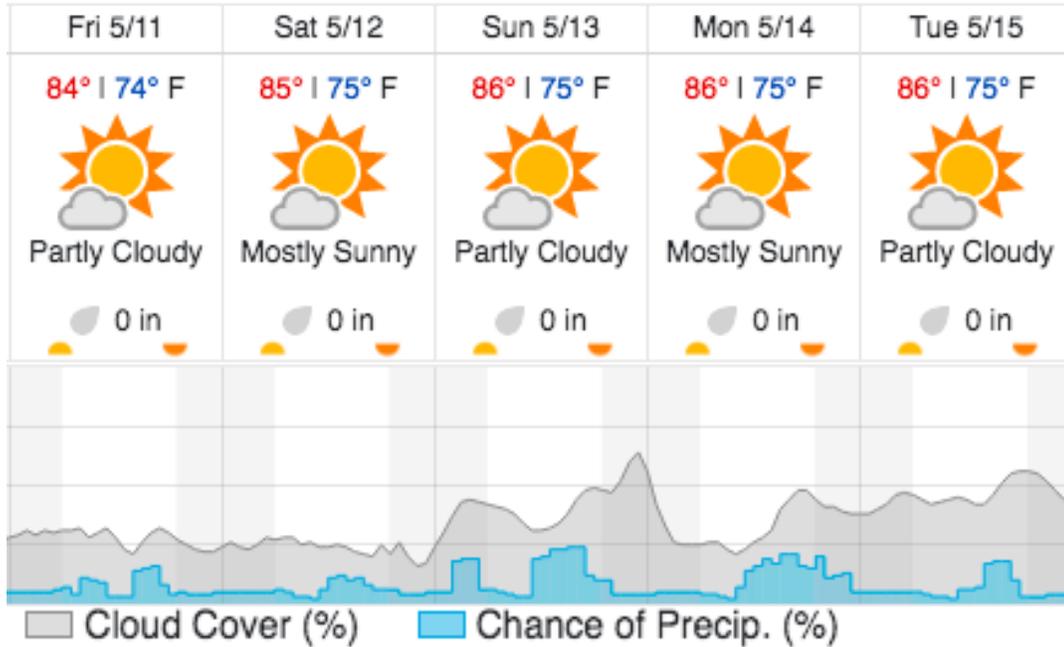
Red: 0% (0/30)

## Weather Forecast

### San Juan, PR



## Guanica, PR



### Flight Collection Plan for 11 May 2018

#### Flyority 1:

Collection Area: Guanica Forest (GUAN)  
Flight Plan Name: D04\_GUAN\_C1\_P1\_v1.pln  
On-station Time: 1300 UTC / 0900 L  
Lines 18-34 complete under red

#### Flyority 2:

Collection Area: Lajas Experimental Station (LAJA)  
Flight Plan Name: D04\_LAJA\_R1\_P1\_v3.pln  
On-station Time: 1300 UTC / 0900 L

#### Flyority 3:

Collection Area: Rio Cupeyes (CUPE)  
Flight Plan Name: D04\_CUPE\_A1\_P1\_v1.pln  
On-station Time: 1300 UTC / 0900 L

#### Flyority 4:

Collection Area: Rio Guilarte (GUIL)  
Flight Plan Name: D04\_GUIL\_A2\_P1\_v1.pln  
On-station Time: 1300 UTC / 0900 L

**Crew:** Mitch Haynes (Lidar), Michael Wussow (NIS), Heather Rogers (Ground)

**New Issues**

<b>Fault:</b> Displays	<b>Open Date:</b> 5/10/2018
2018051012 - Pilot Display was flickering and losing signal for first line of flight. Loitered in air to try to resolve issue. Seems to be a cable issue. Pilot display working after adding more electrical tape to ALTM end, and unkinking cable on pilot display end. Pilot display end looking weak at kink. Will continue to monitor	
<b>Fault:</b> Spectrometer	<b>Open Date:</b> 5/10/2018
2018051012 - After collecting 7 lines of data, the error, " failed to write data from frame grabber" appeared in the Mars Rover log and the imagery in GeoPaint showed large gaps. A screenshot was taken for this error and is included in the screenshots folder. Multiple air tests showed that this error was persistent. The error resolved by power cycling the DCC.	