



## May 7, 2018 Payload 2 Daily Flight Report



**Date:** 2018-05-07

**Flight Campaign ID:** 2018\_P2C1

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

**Domain:** 04

**Sites Flown:** None

**Days left in Domain:** 18

**Report Author:** Mitch Haynes

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

**Flight Hours:** 00:00

**Ground/GPS:**

**Hours until maintenance:** 94.30

**Pilots:** Stephen Brawders, Wesley Wyatt

**Additional Personnel:**

**GPS Instruments:**

### Summary

After a lengthy delay, room was finally made for the Otter in our designated hangar at TJIG, allowing vacuum pumping and cooling of the spectrometer to begin shortly after towing inside.

### Concerns

- Strange NGIS Host communication/freezing error occurred while initiating Cooling mode which was seemingly resolved by reboot of telemetry laptop. Payload 2 flight crew will continue to monitor during the rest of the current cooling process, but also during future vacuum pumping/cooling times as well. Thanks to Lab Manager Ian Crocker for his assistance in troubleshooting.
- As shown by the lengthy wait for hangar space, TJIG is proving to be a very busy airport, with our FBO also serving other post-hurricane surveys as well as FEMA aircrafts that have been deployed in Puerto Rico since September. This will only add to the existing weather challenge that exists while collecting in the tropics.

### Comments

- AOP GPS 01 was set up at TJIG
- Michael Wussow arrived in San Juan to join the flight crew
- Depending on the rate of spectrometer cooling, we anticipate first mission flight in D04 will be either Wednesday, May 9<sup>th</sup> or Thursday, May 10<sup>th</sup>.

Pictures



Above: GPS Set up at TJIG Below: The Otter finally settled into our hangar...and surrounded by helicopters everywhere!



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

### CUPE

1	2	3	4	5	6	7	8	9	10
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### GUIL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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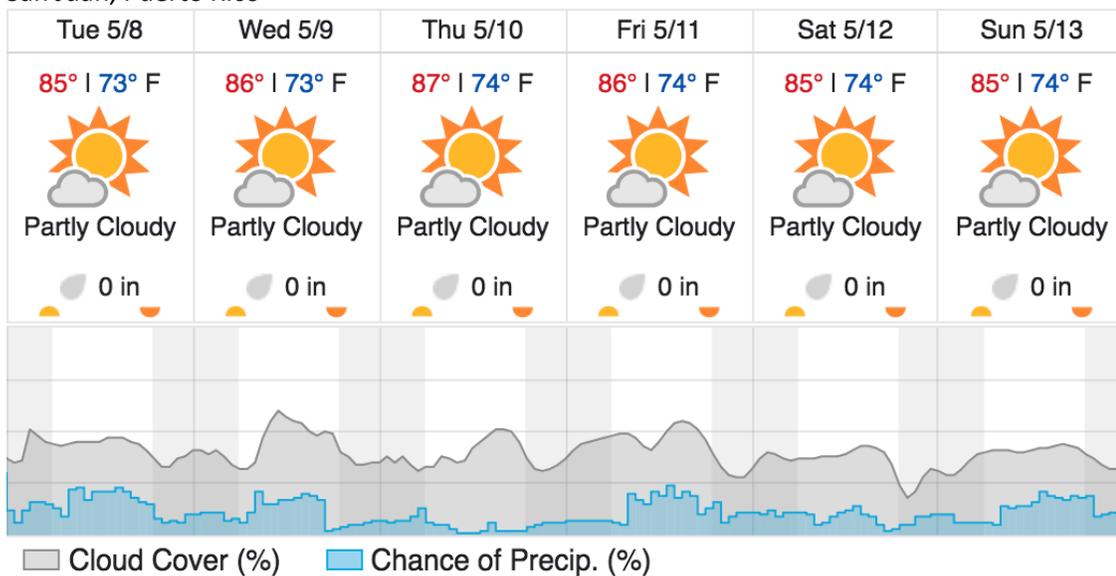
### LAJA

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											

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## Weather Forecast

San Juan, Puerto Rico



### **Flight Collection Plan for 8 May 2018**

Continue pumping and cooling of spectrometer

### **Flight Collection Plan for 9 May 2018** (If spectrometer conditions are within spec)

#### **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

#### **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:** Heather Rogers (Lidar), Michael Wussow (NIS), Mitch Haynes (Ground/GPS)

#### **New Issues**

<b>Fault:</b> Spectrometer	<b>Open Date:</b> 5/7/2018
20180507 – Once internal spectrometer pressure was within spec and it was time to begin cooling, NGIS Host failed twice to initiate cooling, freezing up and stopping the pumping process. Cooling mode was successfully initiated after full reboot of the telemetry laptop. Current suspicion is a network communication issue.	