



## Payload 1 Daily Flight Report



**Date:** 2022-10-31

**Flight Campaign ID:** P1C1

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

**Aircraft:** N331AR

**Domain:** 04 (Atlantic Neotropical)

**Sites Flown:** None

**Days left in Domain:** 12

**Report Author:** Mitch

**Lidar Operators:** Mitch

**Flight Hours:** 00:00

**Spectrometer Operators:** Elissa

**Hours until maintenance:** 67.97

**Pilots:** Justin, Magnus

### Summary

A change in the weather pattern occurred as the low pressure in the eastern Caribbean that had been plaguing the region with rain and thunderstorms over the weekend finally moved far enough westward to no longer be a factor. Skies were cleared significantly more this morning compared to the past few mornings, but unfortunately not quite clear enough to justify a flight, as low clouds were still observed in and near our flight boxes prior to solar angle. Convection increased throughout the day, eventually leading to isolated thunderstorms, however the crew is optimistic that the change in weather patterns will bring about successful collections in the days to come.

### Concerns

None

### Comments

Considerations are being made to open up the solar angle from 40° to 35° to increase the collection time window.

### Cumulative Domain Coverage

D04 | CUPE (Rio Cupeyes)

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

Green: 0% (0/10)

Yellow: 40% (4/10)

Red: 60% (6/10)

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: 53% (18/34)

Green: 0% (0/34)

Yellow: 44% (15/34)

Red: 9% (3/34)

D04 | GUIL (Rio Guilarte)

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

Green: 0% (0/15)

Yellow: 0% (0/15)  
Red: 100% (15/15)

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)

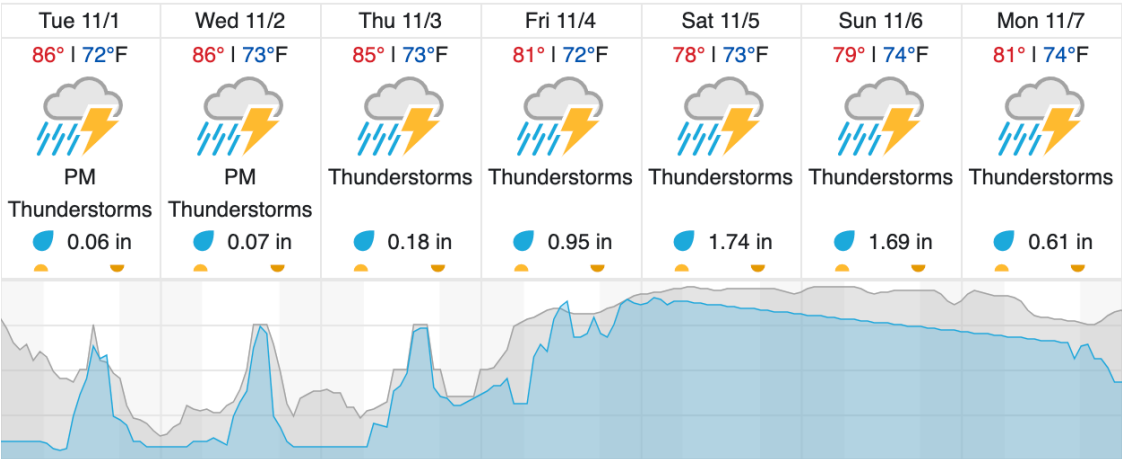
D04 | R04A ( )

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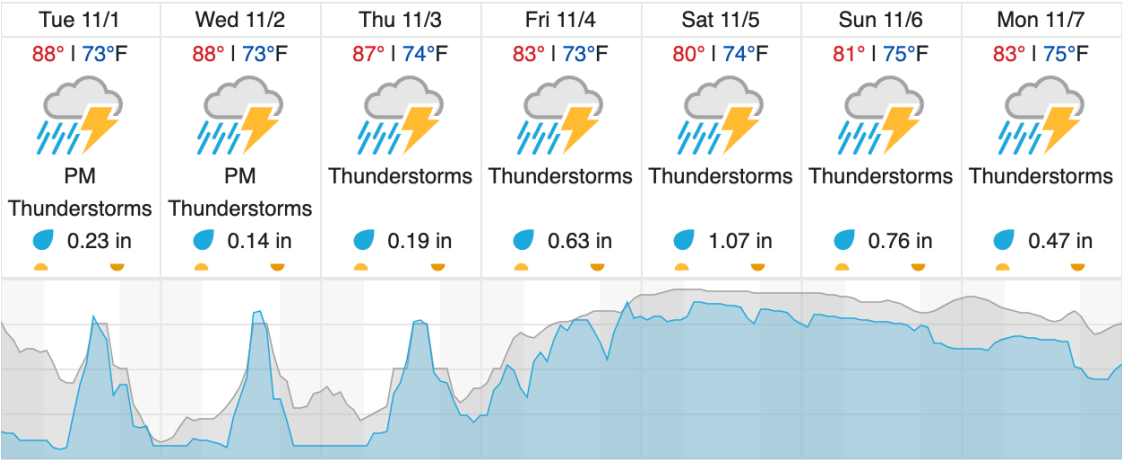
Flown: 100% (5/5)  
Green: 100% (5/5)  
Yellow: 0% (0/5)  
Red: 0% (0/5)

Weather Forecast

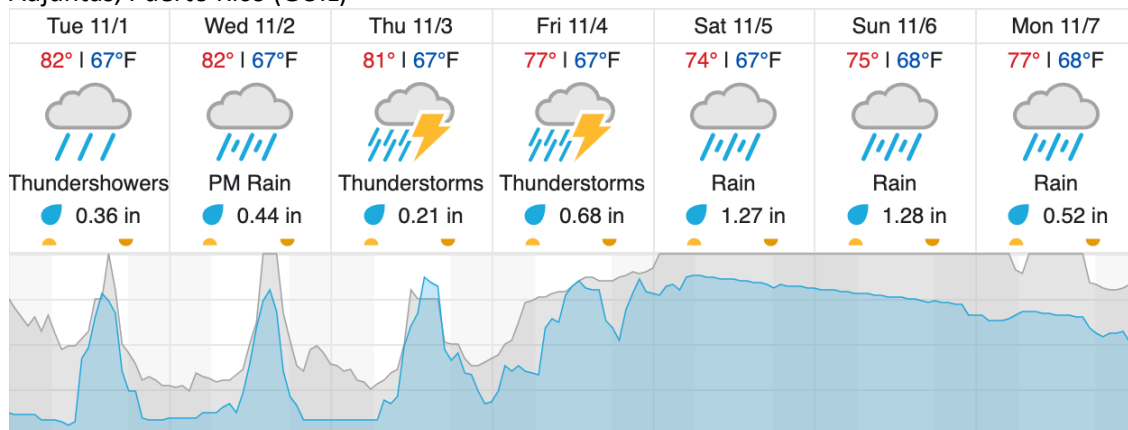
Guayanilla, Puerto Rico (GUAN)



San German, Puerto Rico (LAJA & CUPE)



## Adjuntas, Puerto Rico (GUIL)



	Cloud Cover (%)		Chance of Precip. (%)
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source: wunderground.com

## Flight Collection Plan for 1 November 2022

### Flyority 1

Collection Area: Guanica Forest (GUAN)

Flight Plan Name: D04\_GUAN\_C1\_P1\_v1\_PRM.xml

On-station Time: 1340 UTC / 0940 L

### Flyority 2

Collection Area: Lajas Experimental Station (LAJA)

Flight Plan Name: D04\_LAJA\_R1\_P1\_v6\_PRM.xml

On-station Time: 1340 UTC / 0940 L

### Flyority 3

Collection Area: Rio Cupeyes (CUPE) \*\* If "Green" sky conditions\*\*

Flight Plan Name: D04\_CUPE\_A1\_P1\_v1\_PRM.xml

On-station Time: 1340 UTC / 0940 L

### Flyority 4

Collection Area: Rio Guilarte (GUIL) \*\* If "Green" sky conditions\*\*

Flight Plan Name: D04\_GUIL\_A2\_P1\_v2\_PRM.xml

On-station Time: 1340 UTC / 0940 L

### Flyority 5

Collection Area: D04 Nominal Runway

Flight Plan Name: D04\_N04C\_Nominal\_Runway\_Test\_v1\_PRM.xml

On-station Time: NA

**Crew:** Elissa (Lidar), Mitch (NIS)