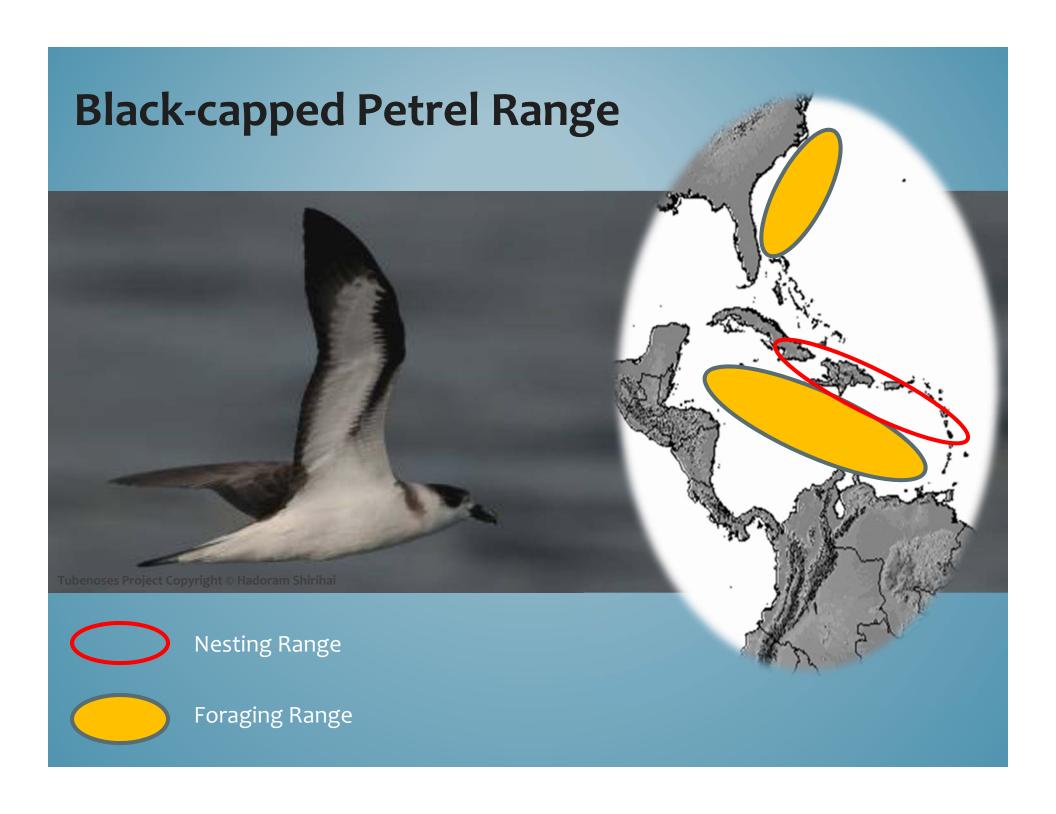
Tracking the Devil:

Conserving Black-capped Petrels on Dominica

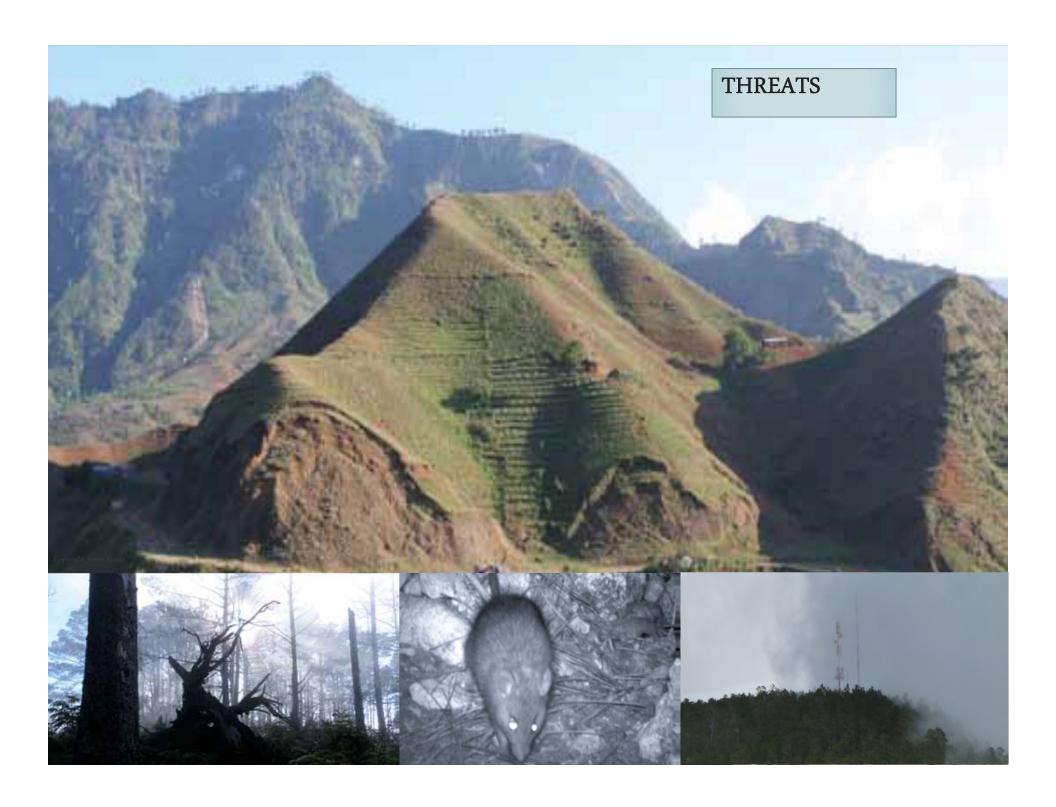




Adam C Brown and Machel Sulton
Environmental Protection in the Caribbean





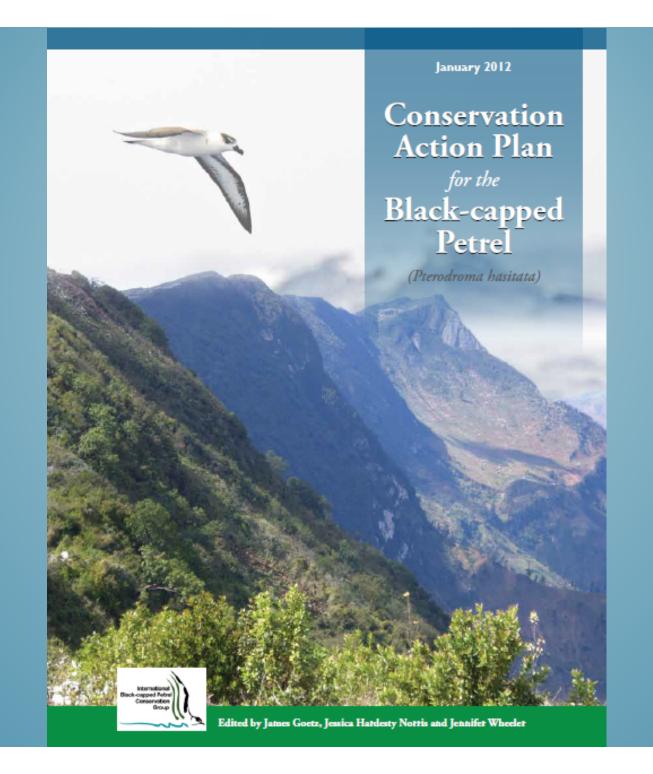


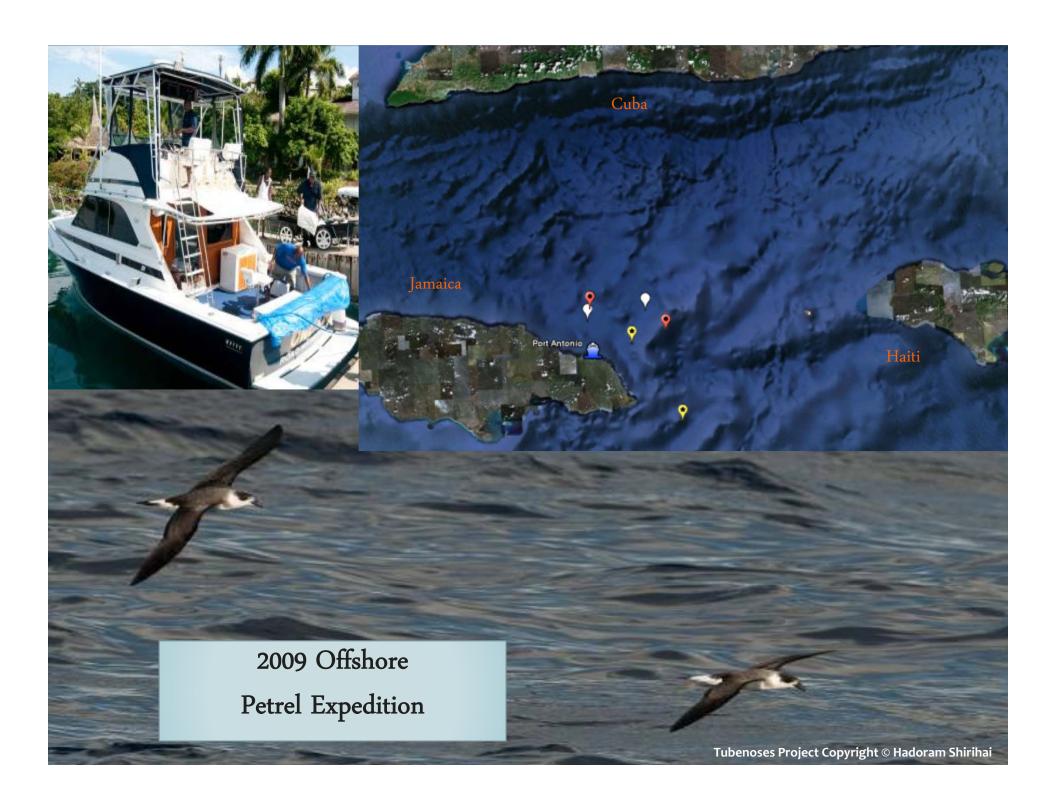


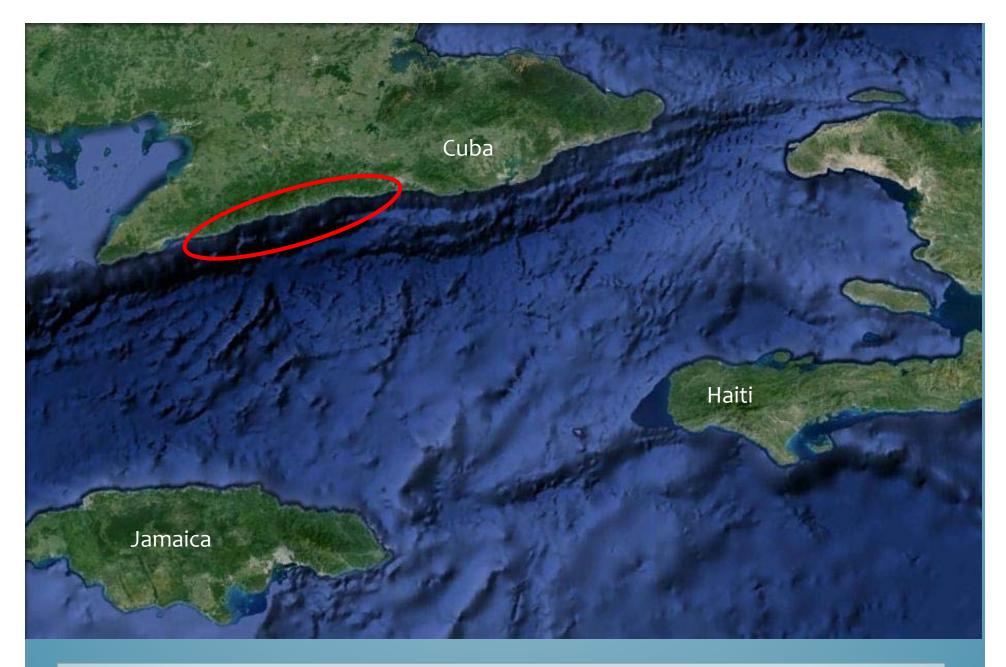


David Wingate's Expeditions



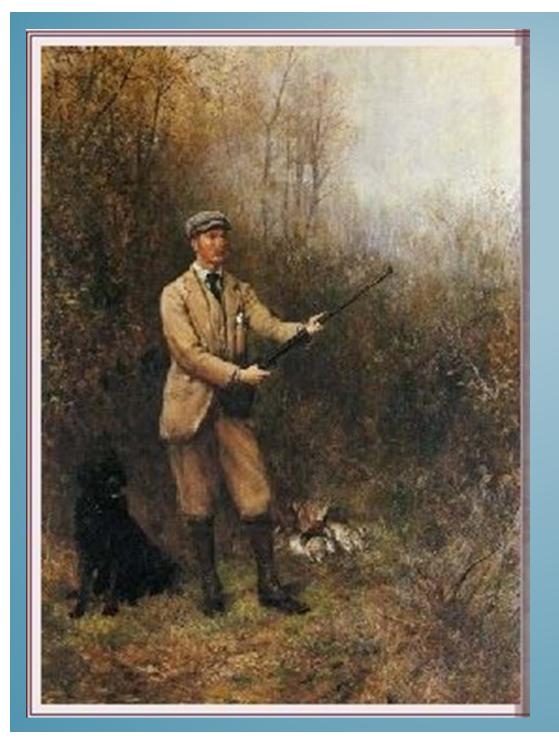






Expeditions to Pico Torquino and Offshore Cuba





History of Diablotin Observations on Dominica

<u>1820:</u> Holotype collected on

Dominica

1858: Diablotin noted as

"widespread" on Dominica

1862: Last confirmed Diablotin nest

found on Dominica

1887: Expedition to Morne Diablotin

and Morne Trois Piton found no

Diablotin.

1932: Adult female found grounded

in Roseau

1982: Small numbers seen flying

offshore along the southeast coast

1990: Adult female found grounded

in Roseau

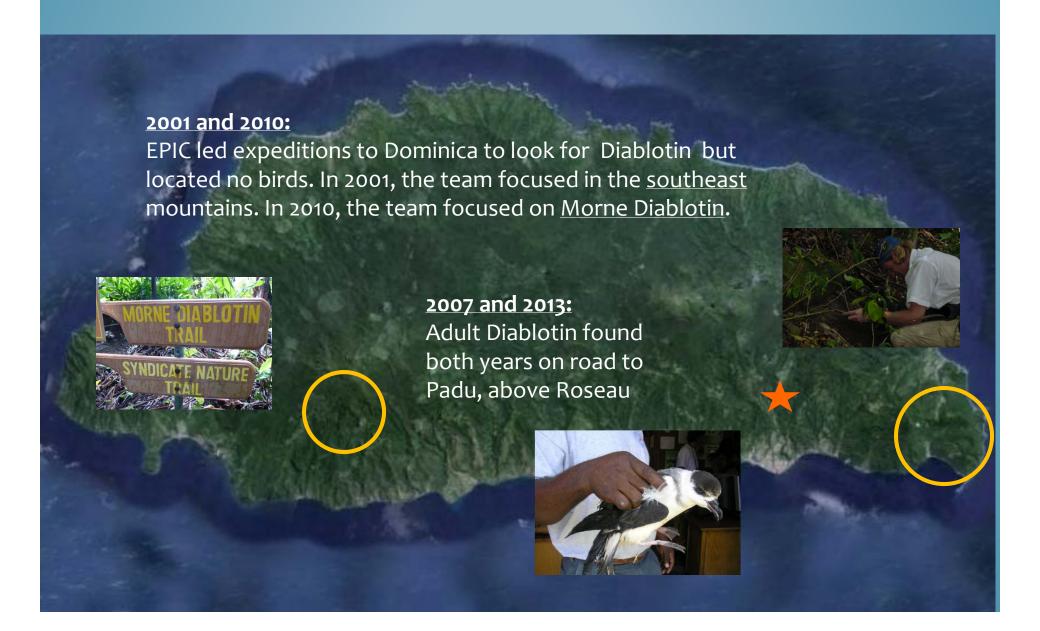
2007: Adult female found grounded

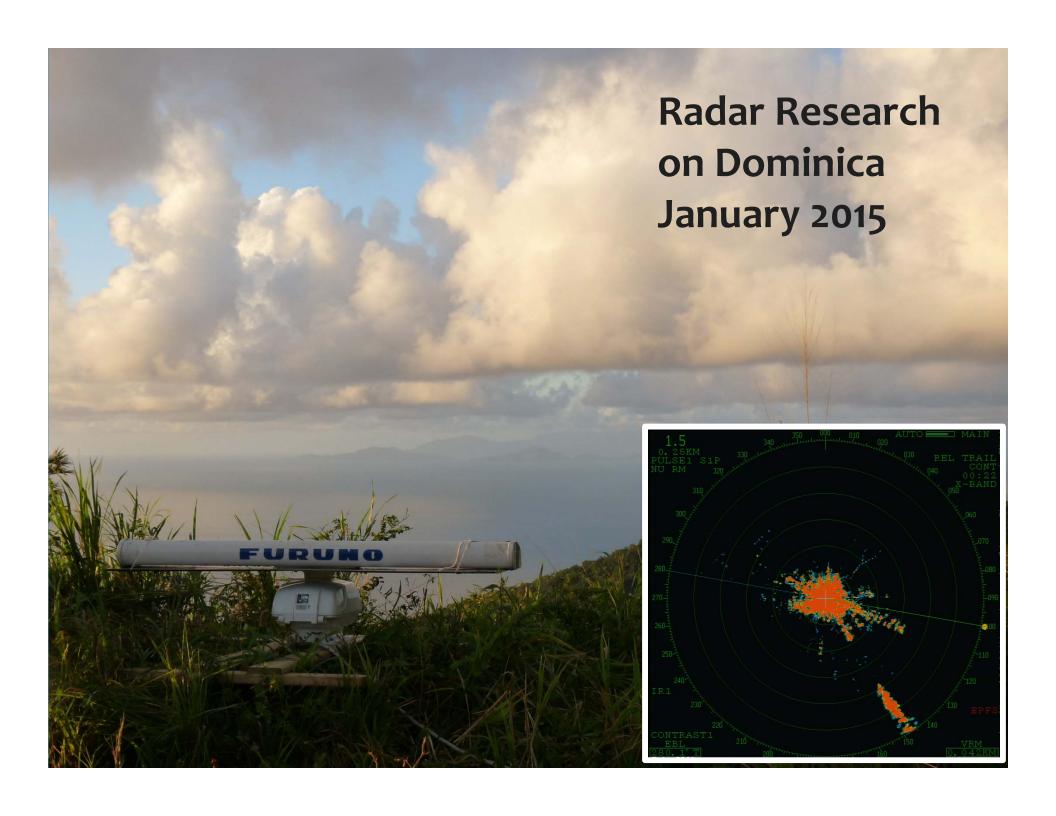
in valley above Roseau

2013: Adult found grounded in

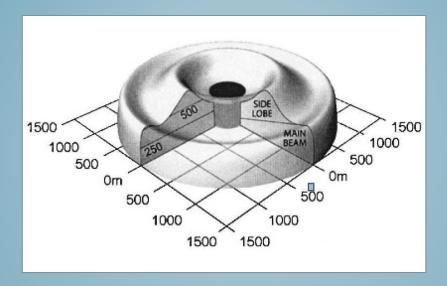
valley above Roseau

Recent Diablotin Research and Observations on Dominica





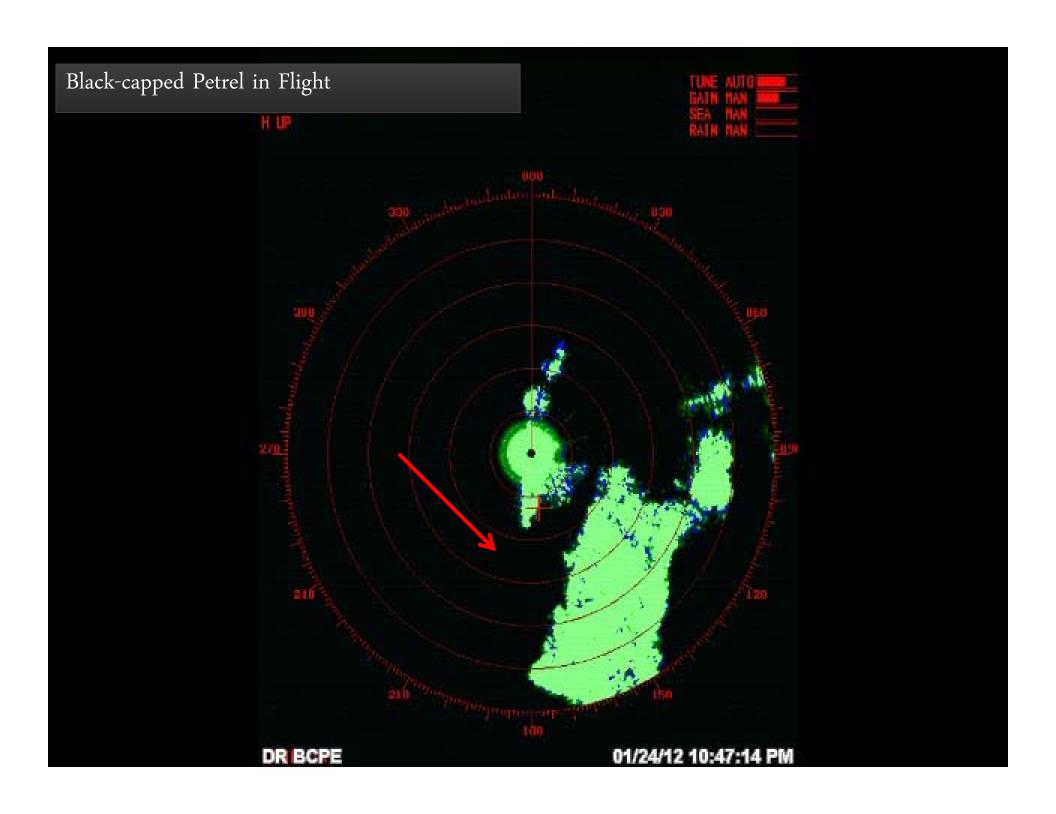
How Does Radar Work?



- Radar is set to detect any movement out to 1.5 km
- A radar wave is sent out from unit, bounces off object and a target signal is returned.
- Speed of moving object is determined by measuring space between targets

Petrels are identified on radar by:

- Flight Speed
- Flight Direction
- Flight Behavior





Infrared Night Vision

 Use this to simultaneously visually observe petrels that the researchers observe on the radar unit



Radar Stations on Dominica





- 20 total stations
- 13 Stations along WestCoast
- 7 Stations along East
 Coast
- monitored potential flight corridors
- monitored potential nest areas

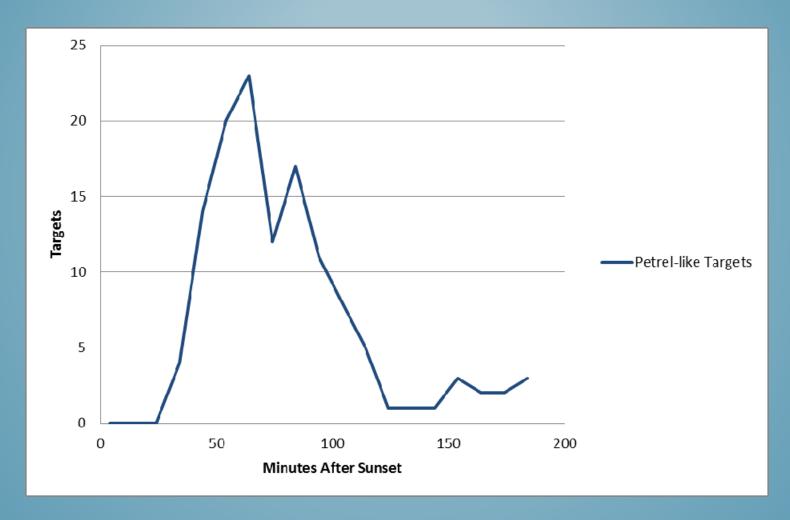


- 968 petrel-like targets islandwide
- 17 of the 20
 stations had
 petrel-like targets
 detected on radar
- 8 visuals with night-vision of flying petrels
- 5 stations had visuals of flying petrels



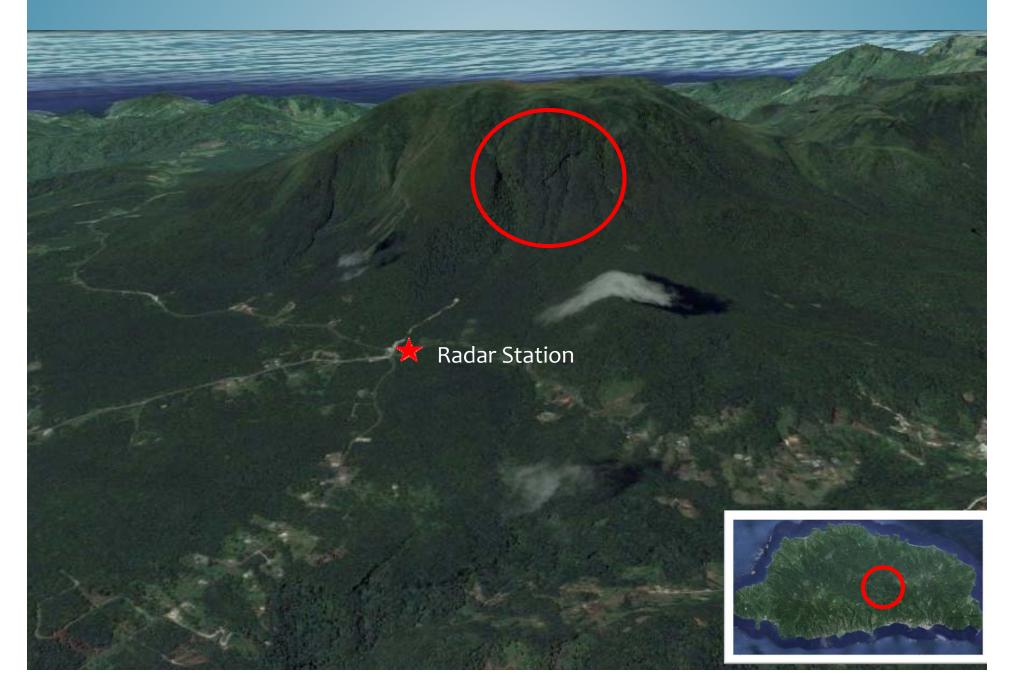
63% of petrel-like targets were detected among four locations:

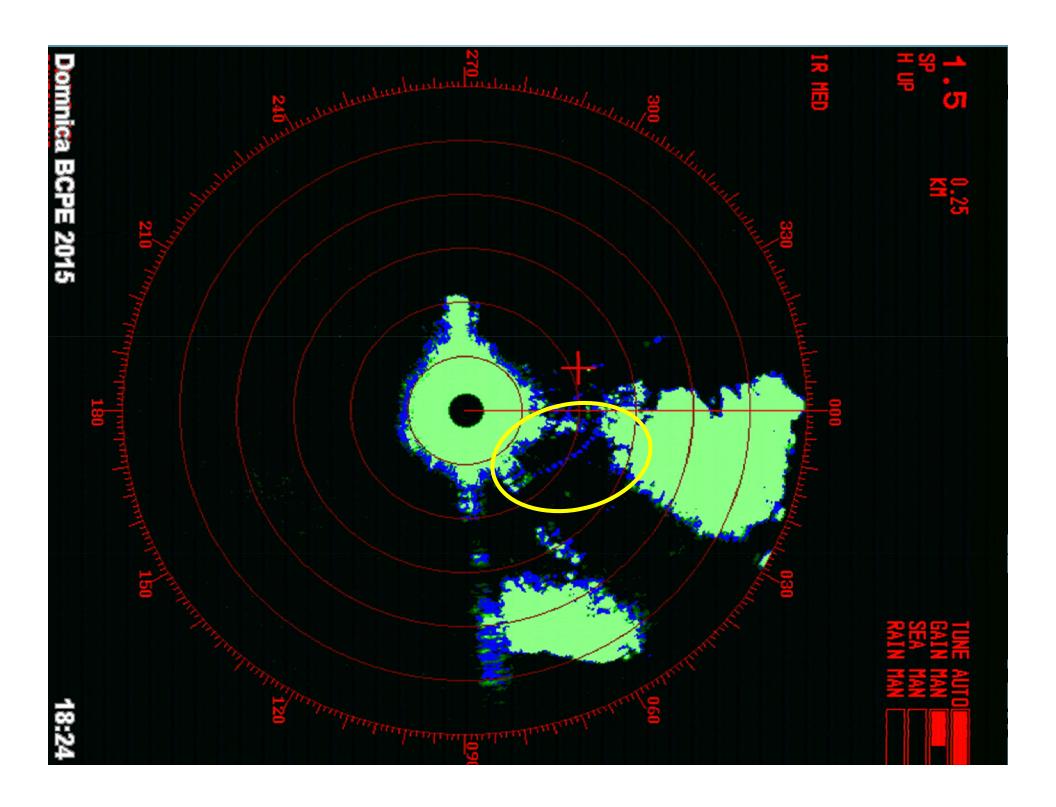
- Morne Diablotin (n=205 targets)
- Morne Trois Piton (n=106 targets),
- Morne Micotrin (n=127 targets)
- Morne Anglais (n=168 targets)



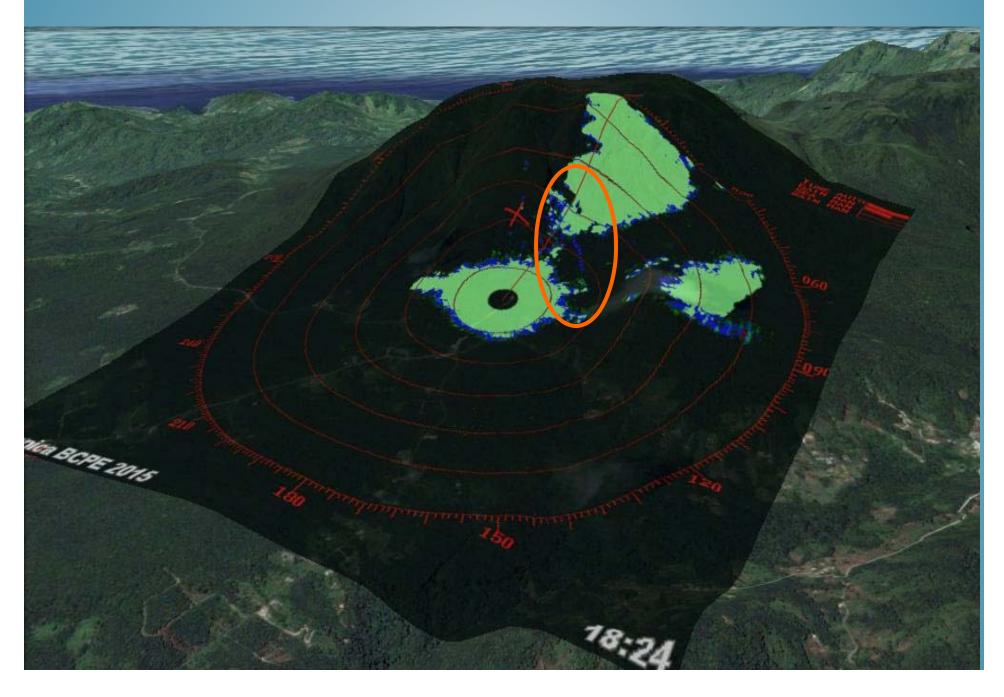
The peak period of petrel activity was between 50 minutes and 80 minutes after sunset

Morne Trois Piton Nest Habitat

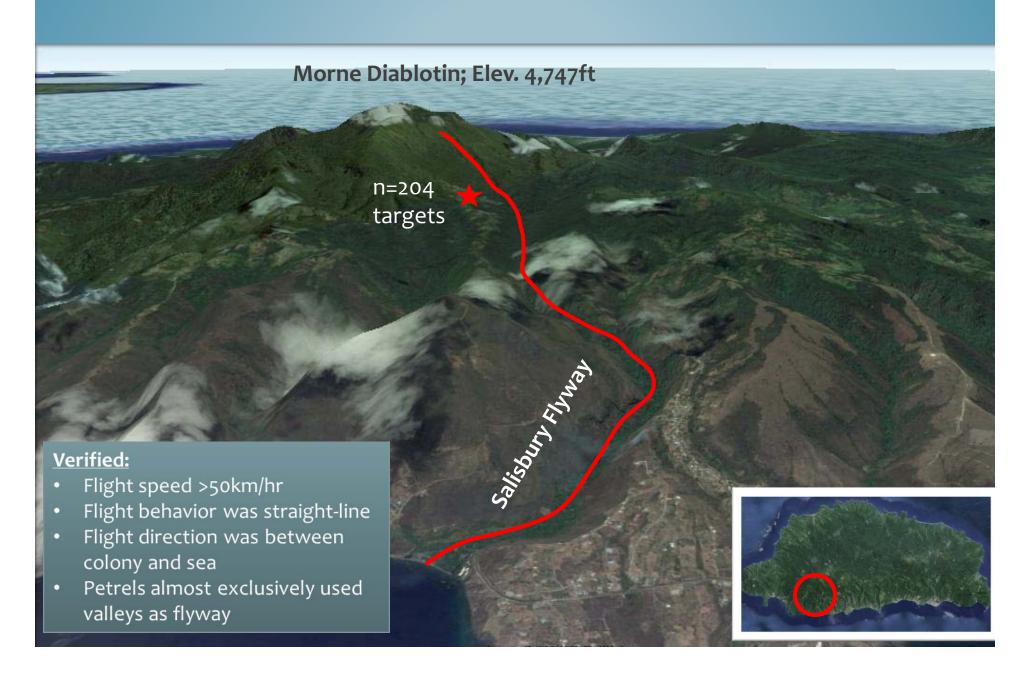




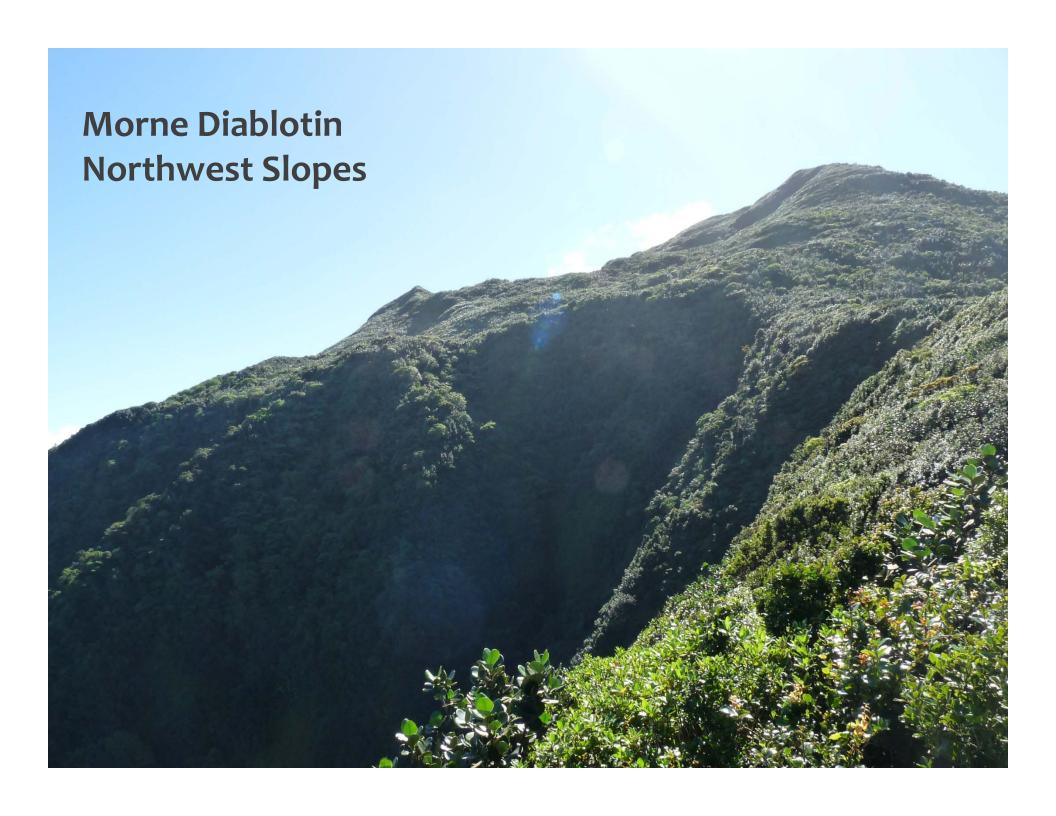
Morne Trois Piton Nest Habitat



Morne Diablotin



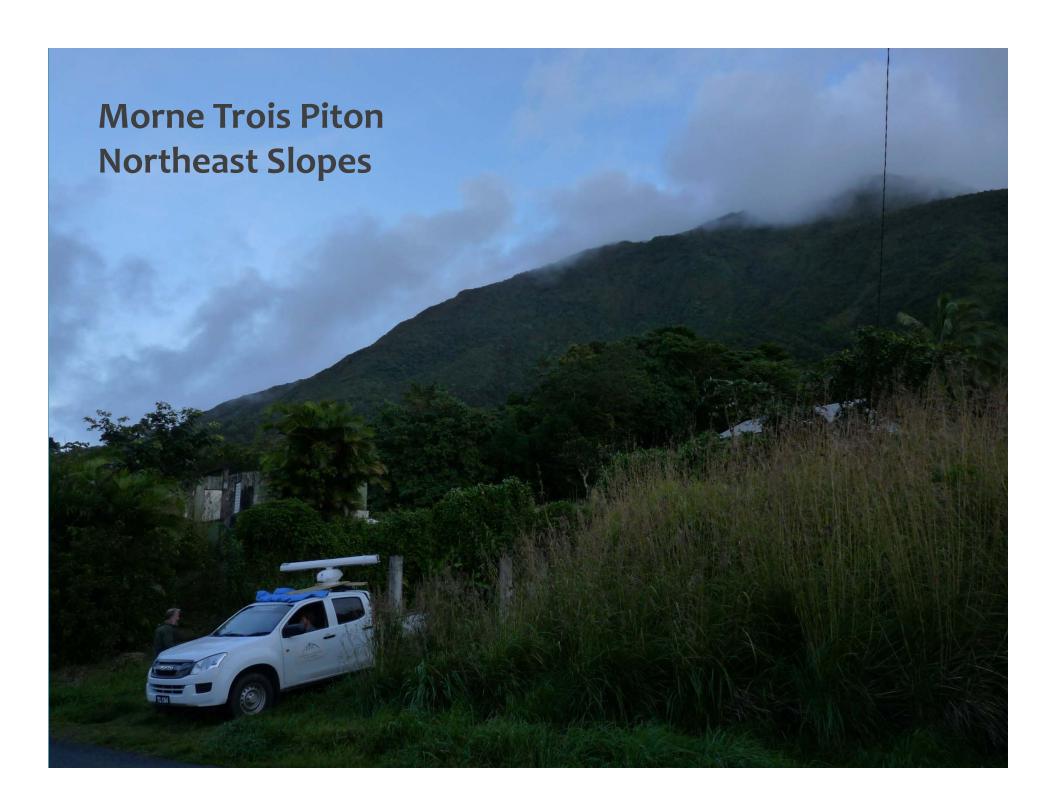


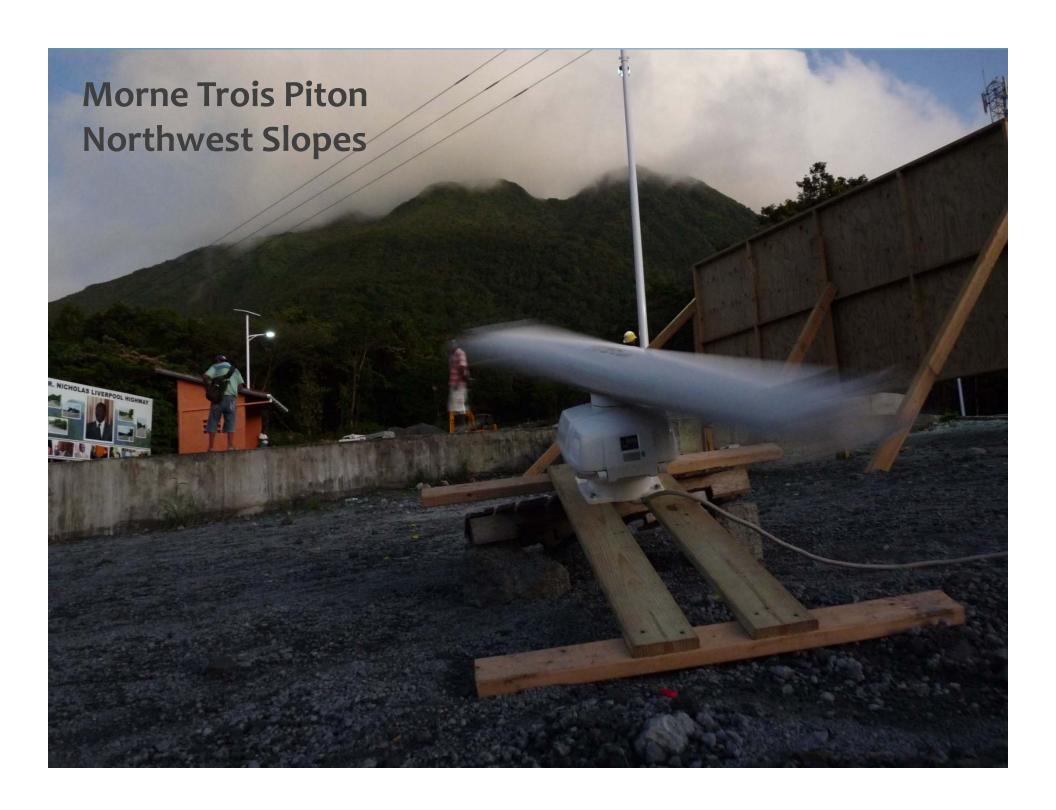




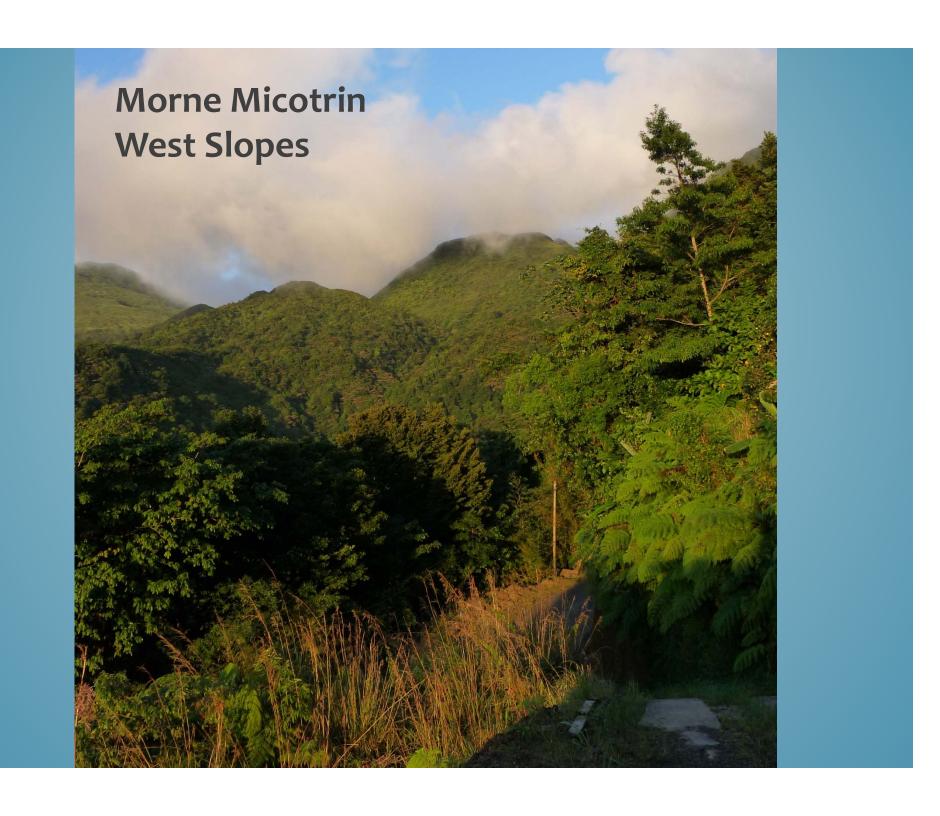


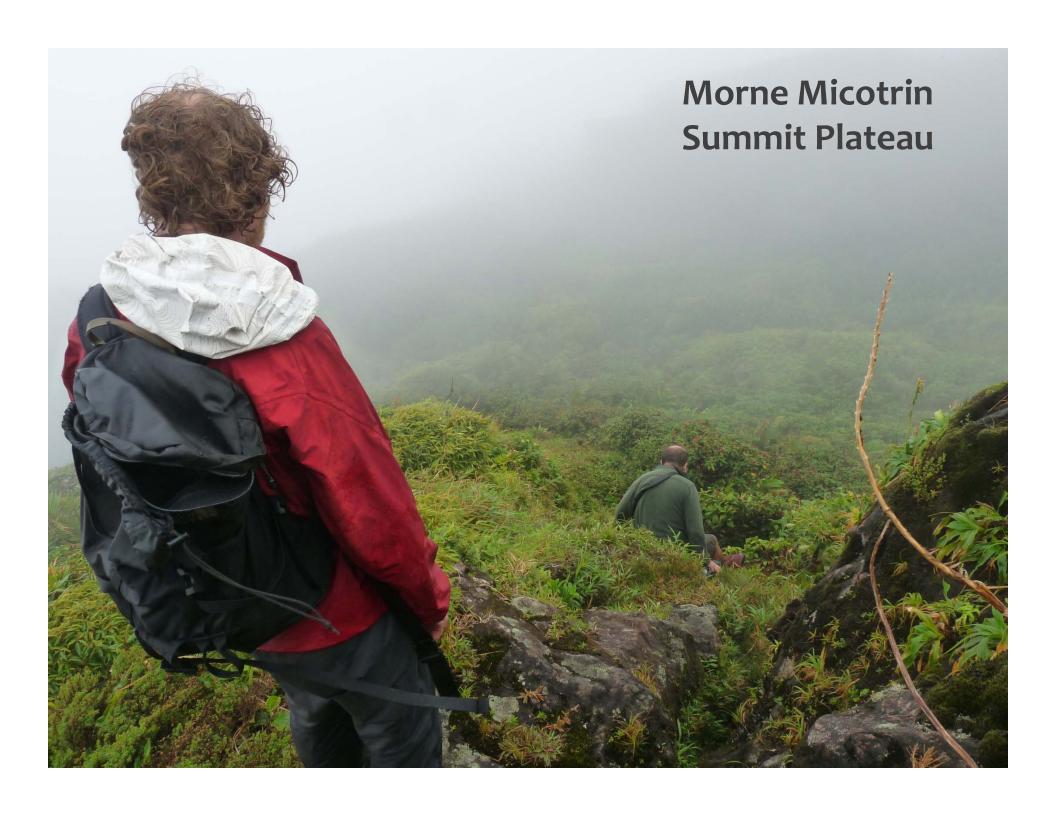


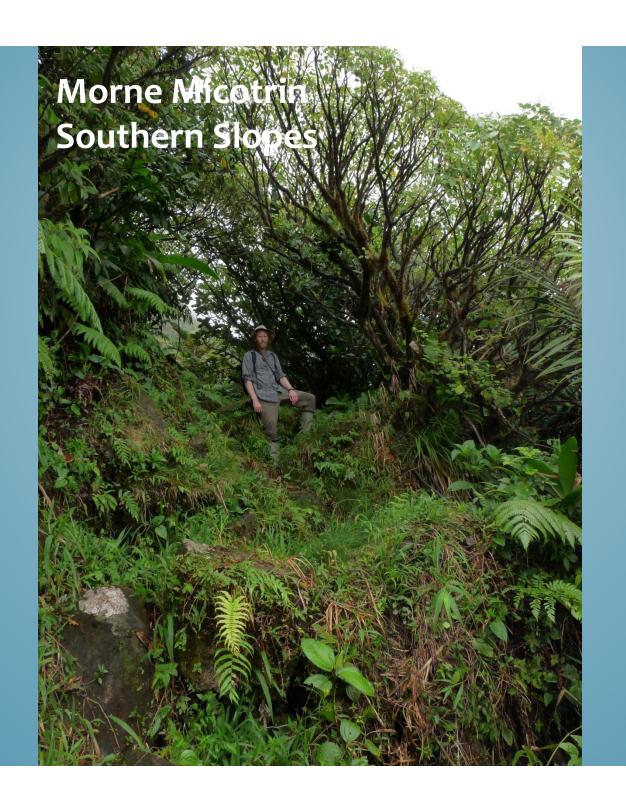




Morne Micotrin Morne Micotrin; Elev. 4,006 ft n= 127 targets Roseau River Flyway



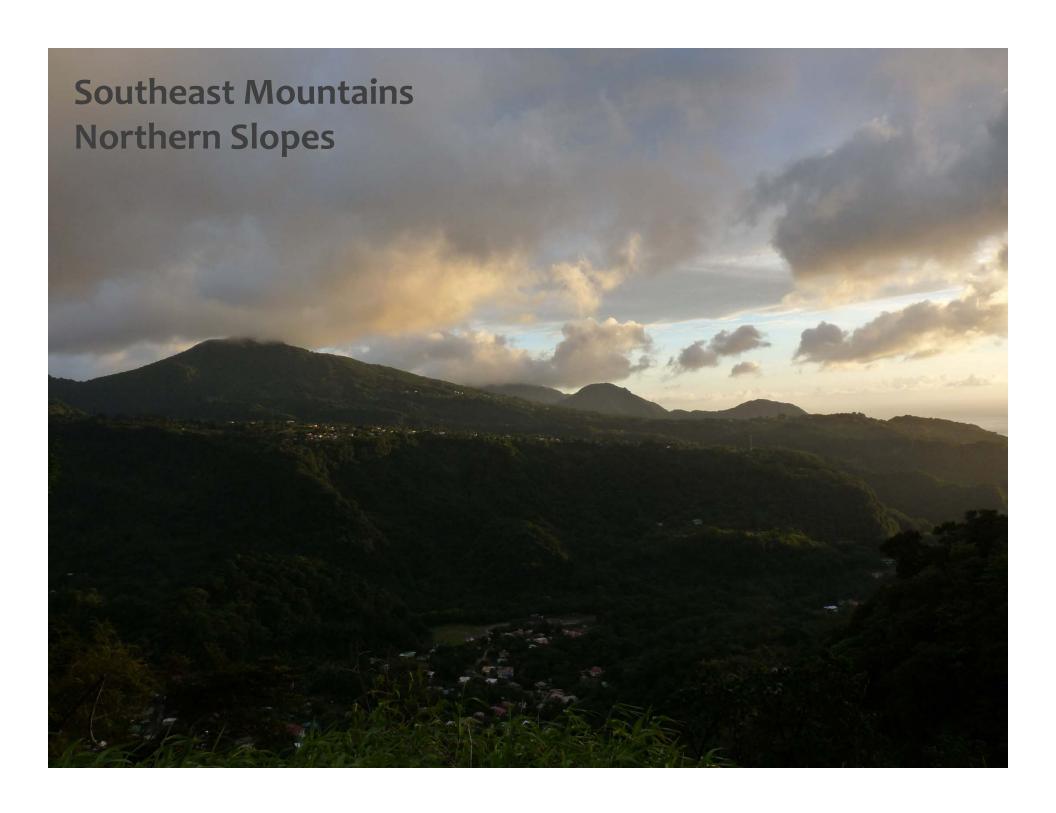




Southeast Mountains









What's Next?





- Find petrel nests on Dominica
- Partnership between Dominica Division of Parks and Wildlife and Grupo Jaragua of Dominican Republic to learn petrel nest search and monitoring techniques.

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Environmental Protection in the Caribbean

www.epicislands.org or www.facebook.com/epicislands

Thank You

Disney Worldwide Conservation Fund

International Black-capped Petrel Working Group

Dominica Forestry, Wildlife & Parks Division

American Bird Conservancy

US Fish and Wildlife Service

Birdlife International

Conservation Metrics

Pelican Inc.

James Goetz

James Tietz

Elias Elias

Jennifer Wheeler

Stephen Durand

Jacqueline Andre

Leslie Rawle

Josh Barron

