BREEDING SUCCESS OF RED-BILLED TROPICBIRDS (PHAETHON AETHEREUS) ON ST. EUSTATIUS AND SABA



Presented by Josh Robertson



IMPORTANCE

Birds globally decreasing

80% of 346 seabirds in decline Ocean Health Indicators



Several threats:
Habitat loss
Oil spills
Predation
Climate change



RED-BILLED TROPICBIRD

Rarest & most vulnerable Tropicbird

Iconic seabird

Most of life spent at sea

Lay 1 egg – vulnerable

Shared parental care





GLOBAL CONTEXT



5,000 - 20,000 Individuals

Del Hoyo et al. (1992)



CARIBBEAN POPULATION?

Lesser Antilles				
Sombrero		b?	van Halewyn and Norton, 1984	
Redondo	b?	c. 100 (5%)	van Halewyn and Norton, 1984	
Antigua	f	c. 50 (2%)	K. Lindsay, pers. comm.	
Barbuda	c. 10 (0.2%)	50-100 (5%)	K. Lindsay, pers. comm.	
St. Maarten	15 (0.3%)	15 (7%)	van Halewyn and Norton, 1984	
Saba	50-100 (2%)	750-1000 (35%)	M. Walsh-McGehee, pers. comm.	
St. Bartholomew		е	Van Halewyn and Norton, 1984	
St. Eustatius	>10 (0.2%)	30	Voous, 1983	
Montserrat	—?	c. 100 (5%)	J. Daley, pers. comm.	
Guadeloupe	68 (1.2%)	69 (3%)	Guadeloupe WIldlife Dept., pers. comm.	
Dominica	10+ (0.2%)	e	R. Winston, pers. comm.	
Martinique	c. 10 (0.2%)	c. 50 (2%)	van Halewyn and Norton, 1984	
St. Lucia	?	?	Evans, 1990	
St. Vincent	b?	e?	Evans, 1990	
Barbados	20 8	e	P. A. Buckley, pers. comm.	
Grenadines	e	b	Evans, 1990	
Frinidad & Tobago	<u>9</u> 5	c. 400 (20%)	Van Halewyn and Norton, 1984	
Caribbean Basin	5 8	c. <100 (5%)	van Halewyn and Norton, 1984	

Lee (2000)

CARIBBEAN POPULATION?

Lowrie et al. (2012)

Country/Territory	Breeding Pairs	% Global Population
Anguilla	86	0.4
Antigua & Barbuda	402	2
Barbados	5	0.00
Dominica	23	0.1
Grenada	361	1.8
Guadeloupe	999	5
Martinique	101	0.5
Montserrat	213	1.1
Saba	360	1.8
St. Barthelemy	291	1.5
St. Eustatius	340	1.7
St. Kitts	NA	NA
St. Lucia	66	0.3
St. Maarten	5	0.0
St. Martin	144	0.7
St. Vincent	554	2.8











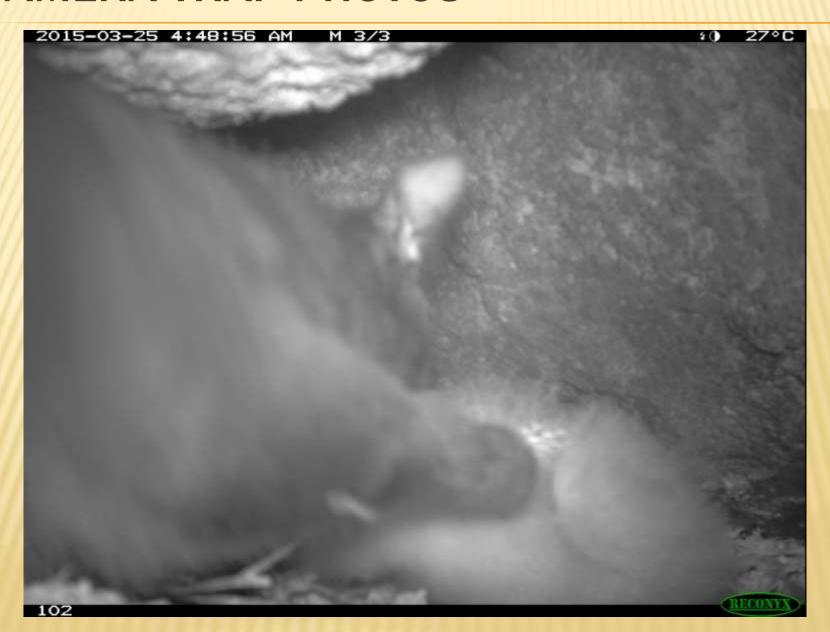






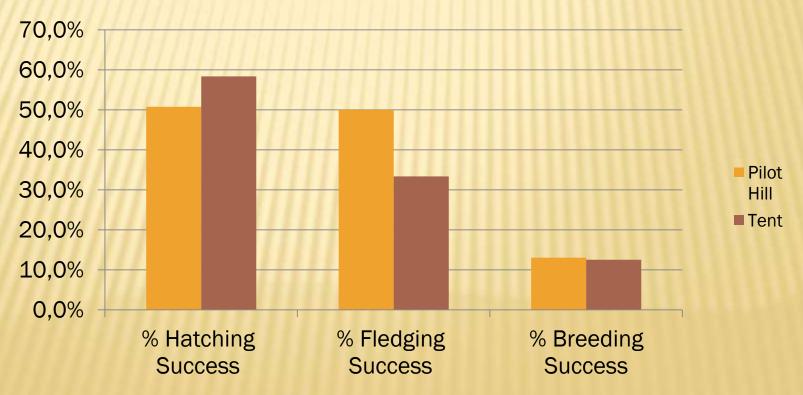






PRELIMINARY RESULTS

ilot Hill	Tent
70	9
72	12
7	4
31	7
19	4
6	1
	70 72 7 31



THREATS & CONTROL

Saba = Rats and Cats
Simultaneous eradication

Statia = Rats
Rat eradication

Successful on Great Bird Island: Nests increased by >500% (Bright et al. 2014)





OTHER THREATS

Goats/Erosion

Frigatebirds

Climate change

Avian Malaria?

Coastal Developments





CONCLUSION

Under-researched iconic seabird

Regionally and globally significant populations

Significant threat from invasive mammals

Their fate in our hands



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QUESTIONS?

