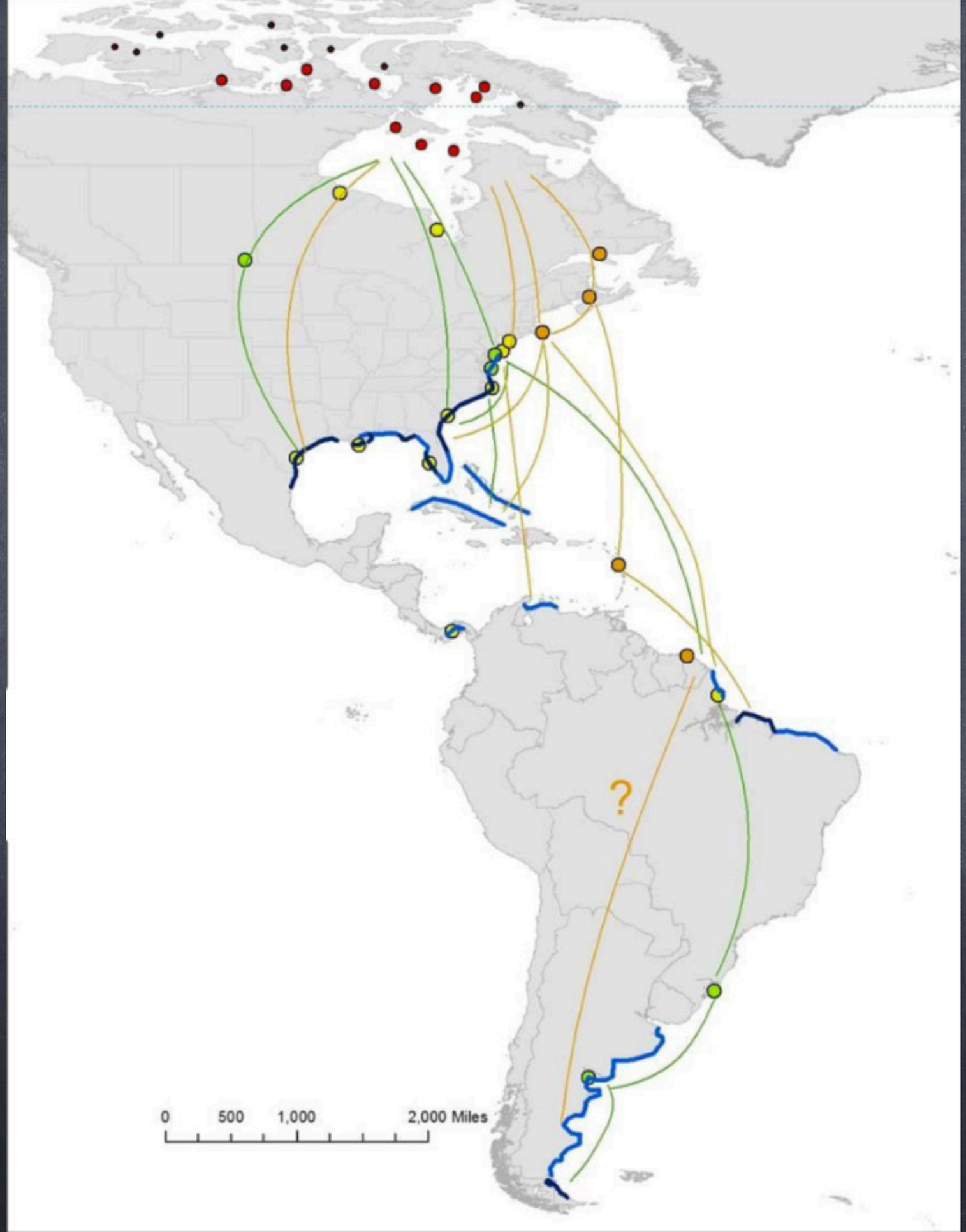
Understanding Migratory Connectivity of Red Knots (Calidris canutus) in Louisiana

Delaina LeBlanc

Migratory Birds Coordinator

BTNEP
BARATARIA-TERREBONNE
NATIONAL ESTUARY PROGRAM



https://www.fws.gov/panamacity/redknot.html

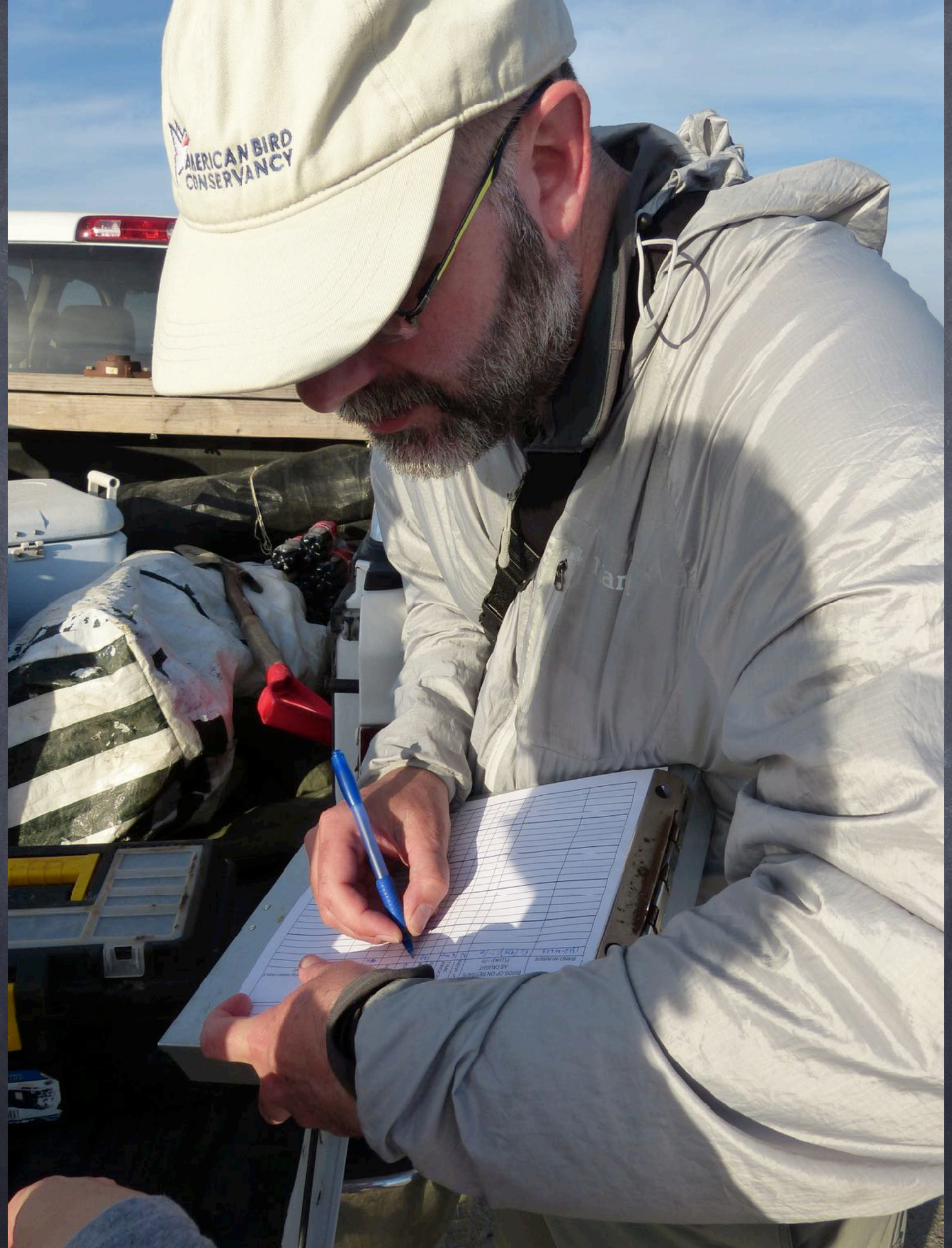
DAEN 2014

A04
Columbia
Columbia

How many Red Knots are in Louisiana?

Banding and Auxiliary Marking

Photo credit: Barbara Keeler


AMERICAN BIRD
CONSERVANCY

Columbia
15

Fowler
SYLVAC
MODE
SET

Pro
400g
PRINT
UNIT

Data collected

Band Number
Auxiliary Marker
Age
Culmen (Bill)
Head + Bill
Wing
Tarsus
Weight
Blood
Feather

SNICKERS

© Barbara Keeler

Species: Red Knot (Playero canuto)
Marker Type/Color: Engraved Flag: Dark Green - white ink
Marker Code: 172

Search

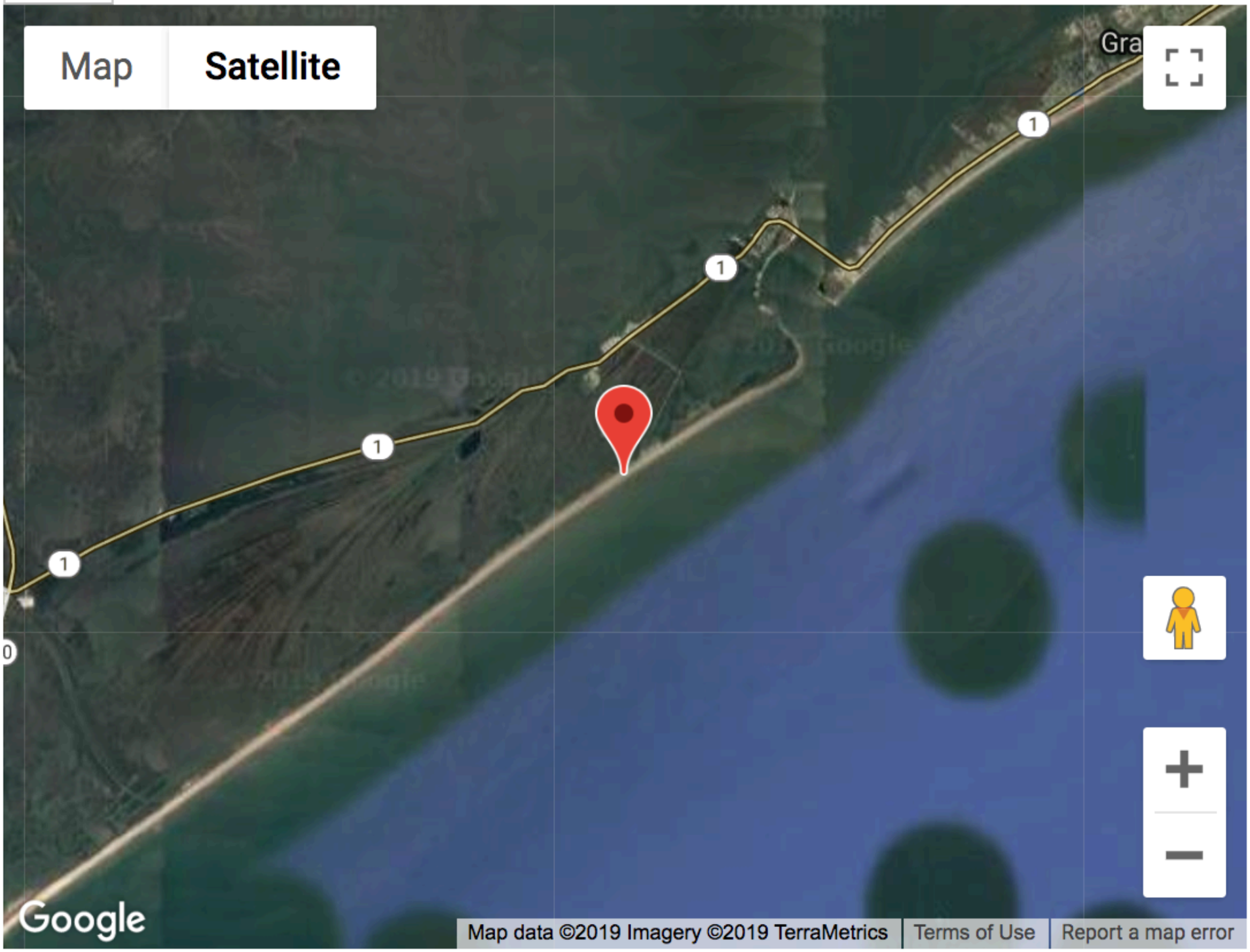
Captures:
4/23/2017 1:00:00 PM - Grande Isle - mid, Louisiana, United States - 1332-67330 FEDG172 REKN
Resightings:
4/24/2017 - Grande Isle - mid, Louisiana, United States - 1332-67330 FEDG172 REKN
2/12/2018 - Chiloe Island, Caulin, Los Lagos, Chile - 1332-67330 FEDG172 REKN Click here to see a picture
4/18/2018 - Elmers Island, Louisiana, United States - 1332-67330 FEDG172 REKN
4/22/2018 - Grande Isle - mid, Louisiana, United States - 1332-67330 FEDG172 REKN

Species: Red Knot (Playero canuto)

Marker Type/Color: Engraved Flag: Light Green (Lime) - black ink

Marker Code: 975

Search



Captures:

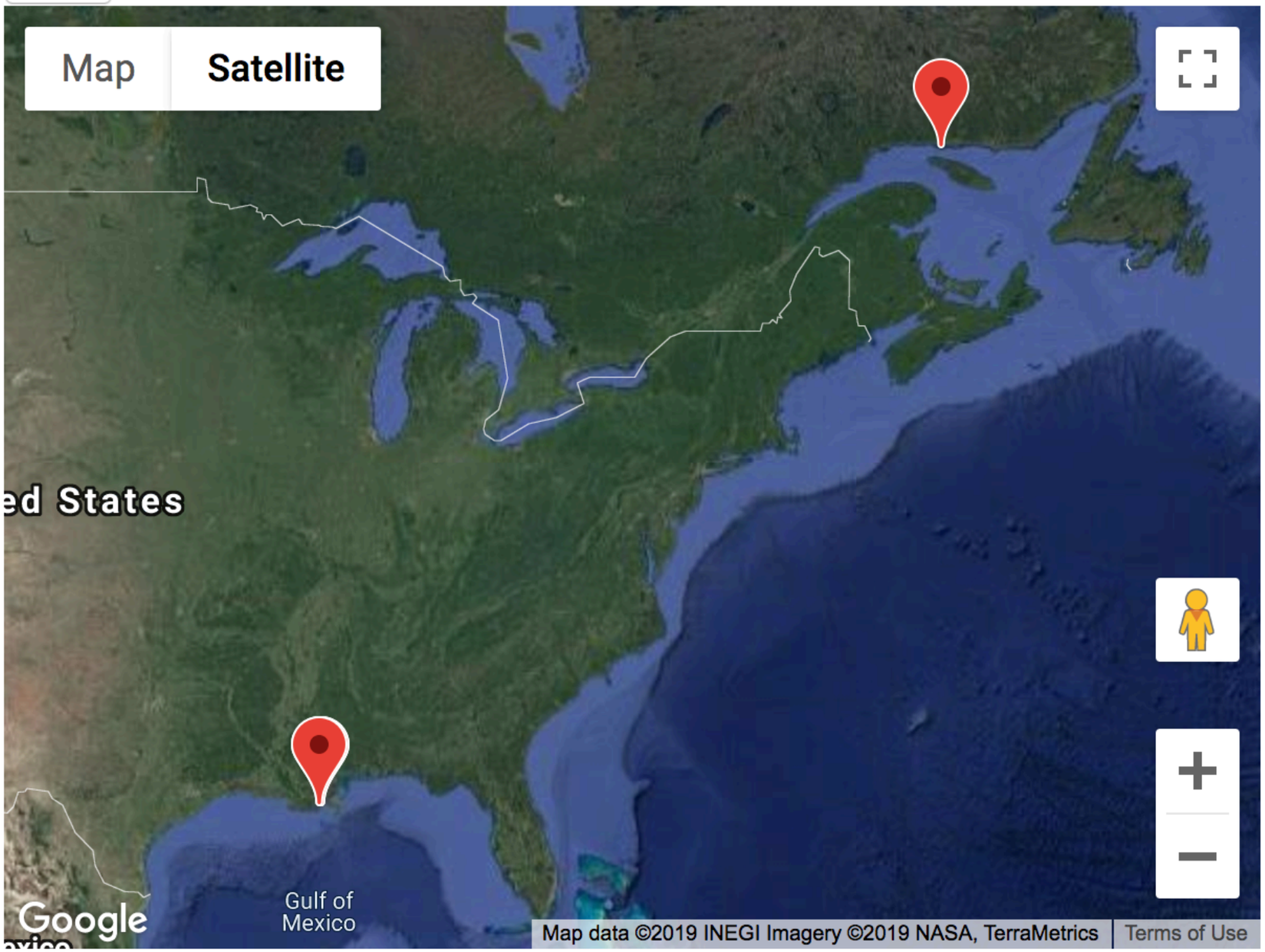
4/13/2014 - Elmers Island, Louisiana, United States - 1312-00623 FELG975 REKN

Species: Red Knot (Playero canuto)

Marker Type/Color: Engraved Flag: Light Green (Lime) - black ink

Marker Code: A12

Search



Captures:

4/17/2014 - Grande Isle State Park, Louisiana, United States - 1312-00643 FELGA12 REKN

Resightings:

7/31/2012 - Grande Ile, Mingan Archipelago National Park Reserve, Quebec, Canada - 1312-00643 FELGA12 REKN

4/28/2015 - Grande Isle - mid, Louisiana, United States - 1312-00643 FELGA12 REKN

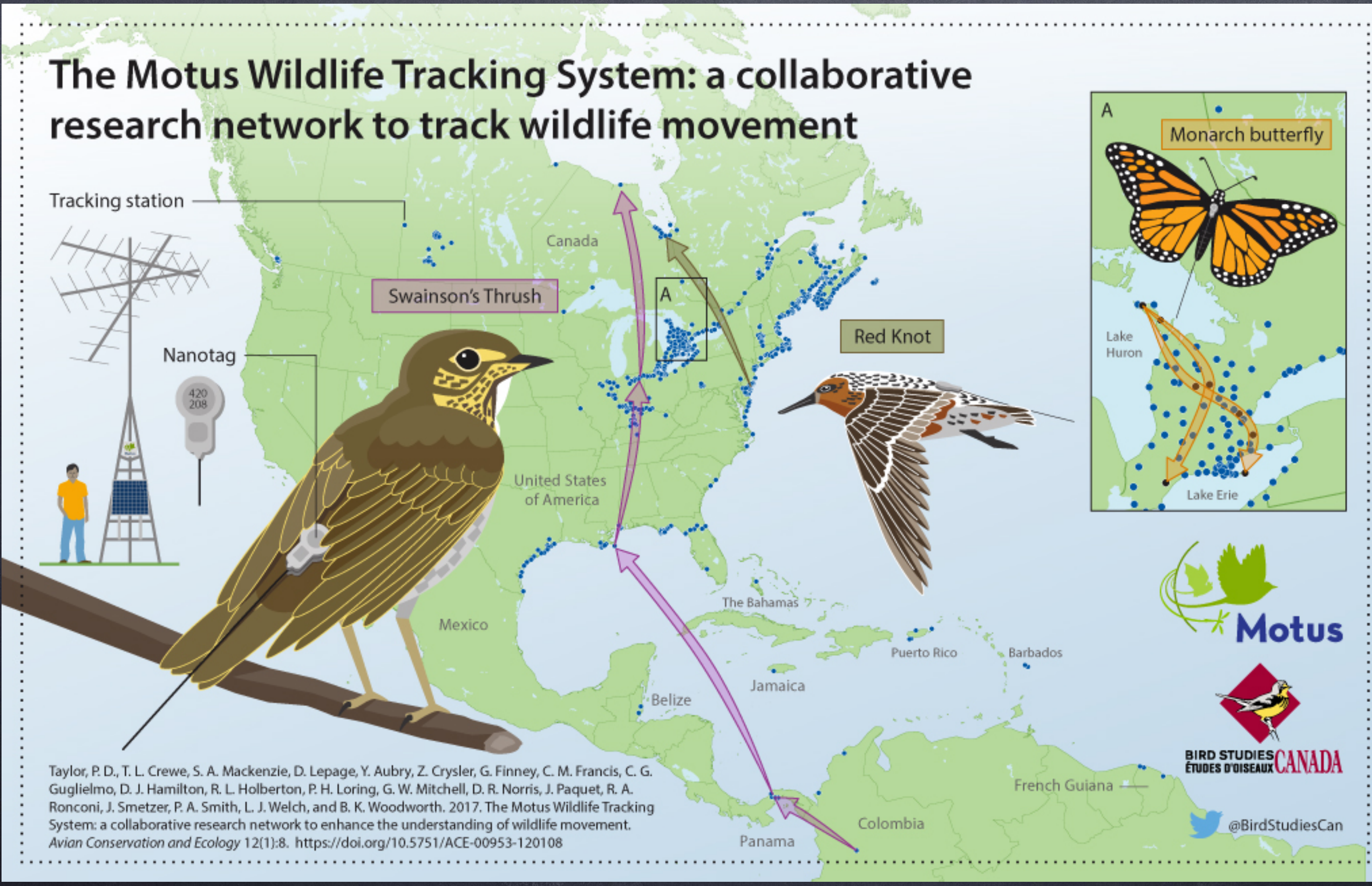
4/11/2016 - Grande Isle State Park, Louisiana, United States - 1312-00643 FELGA12 REKN

4/19/2016 - Grande Isle - mid, Louisiana, United States - 1312-00643 FELGA12 REKN

VHF Radio Telemetry

2016

The Motus Wildlife Tracking System: a collaborative research network to track wildlife movement



Taylor, P. D., T. L. Crewe, S. A. Mackenzie, D. Lepage, Y. Aubry, Z. Crysler, G. Finney, C. M. Francis, C. G. Guglielmo, D. J. Hamilton, R. L. Holberton, P. H. Loring, G. W. Mitchell, D. R. Norris, J. Paquet, R. A. Ronconi, J. Smetzer, P. A. Smith, L. J. Welch, and B. K. Woodworth. 2017. The Motus Wildlife Tracking System: a collaborative research network to enhance the understanding of wildlife movement. *Avian Conservation and Ecology* 12(1):8. https://doi.org/10.5751/ACE-00953-120108

https://motus.org/data/download/Motus-System-IG-final.pdf

https://motus.org/

Photo credits: Richard DeMay

https://motus.org/

084

Light-level Geolocation

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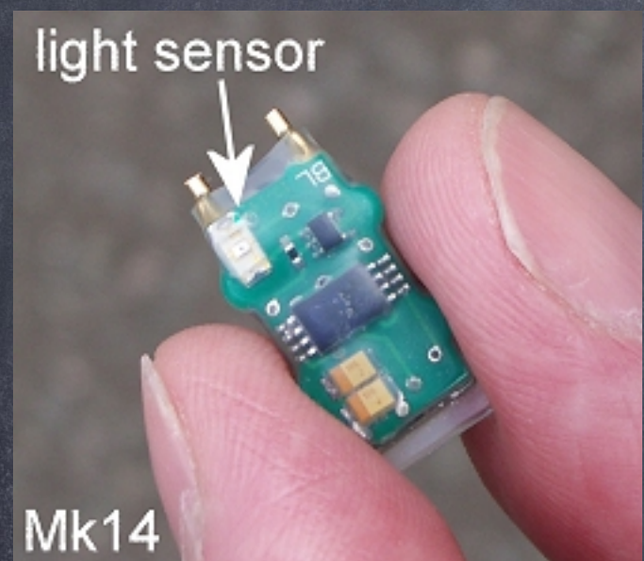
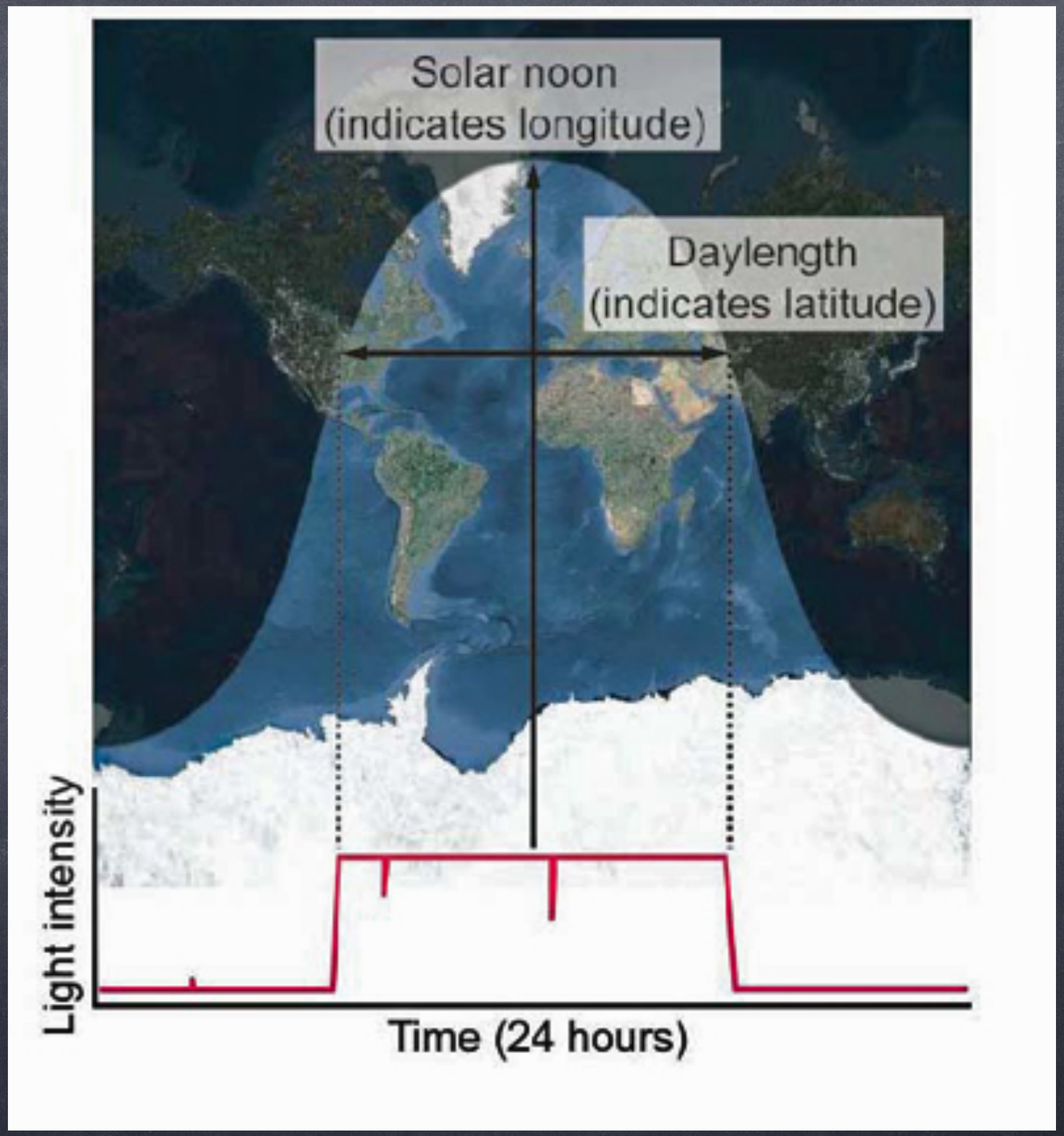
2017





http://www.animalmigration.org/geolocation/index.htm

180

Geolocator Recovery

2018

Mendicant Island
Queen Bess Island
Grand Terre Islands
Isle Grande Terre
Beauregard Island
Fifi Island
Fifi Island
1
Grand Isle
Grand Isle
© 2018 Google
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2019 TerraMetrics
Google Earth

Photo credit: Barbara Keeler

Photo credit: Barbara Keeler

Photo credit: Barbara Keeler

LA-180

LA-198

LA-172

Geolocator Recovery

Photo credit: Barbara Keeler

Photo credit: Barbara Keeler

Barbara Keeler ©

Christopher Lipps
May 2 at 10:14 PM

Red Knot re-sighted on Tyndall AFB 4/24/19 and 5/2/19.
Gf(089)//:Geolocator//S

Ruddy Turnstone re-sighted on Tyndall AFB 5/2/19.
Gf(LYK)//:S

21 2 Comments 1 Share

Photo credit: Barbara Keeler

Photo credit: Barbara Keeler

pro
natura

Photo credit: Barbara Keeler

Photo credit: Barbara Keeler

Photo credit: Barbara Keeler

Chandeleur Island Census

SUZUKI
250
SUZUKI
BLAZER BAY

CHECKLIST S56570815

Fri 17 May 2019 8:30 AM

Edit date and effort

Chandeleur Island South - Leg 1 St. Bernard Parish, Louisiana, United States

Edit location

Checklist tools

Delaina LeBlanc

Share

Robert Dobbs

Traveling Complete

2 | 2 hr, 10 min | 1.21 mi

BTNEP/CBBEP Red Knot survey of Chandeleur Island. Delaina LeBlanc and I surveyed southern end of Chandeleur Island, walking north along on gulf side and winding out onto and around bay-side flats where present. Survey effort separated into three bouts due to the land broken into three separate islands--breaches between southern and middle island ca. 270 m wide (waist-deep, wade-able), and between middle and northern island ca. 700 m wide and deep (hitched a boat ride between these islands). Mid-upper 70s, clear, S wind ca. 5 knots.

29 Species observed
+4 other taxa

3 Species with photos
+1 other taxa

Add media | Edit species

2	**American Oystercatcher** *Haematopus palliatus*	Remove
22	**Black-bellied Plover** *Pluvialis squatarola*	Remove
21	**Semipalmated Plover** *Charadrius semipalmatus*	Remove
10	**Ruddy Turnstone** *Arenaria interpres*	Remove
35	**Red Knot** *Calidris canutus*	Remove

Counted 1 x 1

AGE & SEX:

	Juvenile	Immature	Adult	Age Unknown
Male				
Female				
Sex Unknown		18	17	

~555 Red Knots

Photo credit: Barbara Keeler

Red Knot Census on the Chandeleur Islands and Grand Isle

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2020

DATE: 1/11/17

LOCATION: Grand Isle

SHOREBIRD GULF BEACH USAGE SURVEY

SURVEYOR: Delaina Le

GPS UNIT: 7

Segment column marks specific 1 km stretches. Focal Species include: REKN, WIPL, SNPL & PIPL

Location: B=Bay (includes bay flats and back shorelines), G=Gulf Shoreline (includes gulf shoreline and tidal zone), O=Open Beach (area between gulf and bay locatio

Activity: L=Loafing/Roosting, F=Foraging, A= Aggressive, FL=

	Segment	Species	Wypt ID	Lat	Long	# Band/Total	Location	Activity	# Vehicles	# People	Dog Leashed	Dog Unleashed	Wrack	Trash	HD
1	G1SP								Ø	1W	Ø	Ø	3	1	Ø
2	G1-G2	REKN	001	29.24821	-89.96189	Ø/3	G	F	1G	1G	Ø	Ø	3	1	Ø
3	G2-G3								Ø	Ø	Ø	Ø	3	1	Ø
4	G3-G4	WIPL	002	23909	97977	Ø/1	O	L	Ø	1D	Ø	1	3	2	Ø
5	G4-G5								Ø	1W	Ø	Ø	2	1	Ø
6	G5-G6								Ø	Ø	Ø	Ø	2	1	Ø
7	G6-G7	REKN	003	29.22528	-90.00471	Ø/1	G	F	Ø	Ø	Ø	Ø	2	1	Ø
8	G7-G8								Ø	Ø	Ø	Ø	3	1	Ø
9	G8-G9								Ø	Ø	Ø	Ø	2	Ø	Ø
10	G9-G10								Ø	Ø	Ø	Ø	3	1	Ø
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															

Wrack: (0=none, 1= light; scattered along tide line, 2= moderate; contiuous, but light along high tide line, 3=heavy; continuous and heavy along high tide line.)

Trash: (0=None, 1= Light; scattered mainly among wrack; 2= moderate; heavy along wrack line; 3 = heavy; throughout beach.)

Human: (0= None, 1=Scattered; not affecting bird abundance; 2=moderate; but birds have usable areas without humans; 3=heavy; strongly affecting bird abundance.)

Page 1 of 2

RED KNOT CHANDELEU

GPS#

Crew Don Norman | Evile Johnson

30.03680 -88.86570

(west in water)

RT WAYPOINT

AUX MARKERS

WYPT#	#	[C]OUNT OR [E]STIMATE?	# BANDED	# CHECKED FOR BANDS	# SY	# ASY
245	1	C			1	
246	1	C				
247	43	C				
248	29	C				
249	15	C				
250	53	C				
251	10	C				
252	10	C				
253	13	C				
254	3					
255	2					
256	8					
257	10					
258	—					
259	29	C				
260	13	C				
261	6	C				
262	1	C				
263	29	C				
264	28	C				
265	2	C				
same area	1					

Satellite Telemetry

Using Platform Transmitter Terminals

2020

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Photo credit: Barbara Keeler

Barbara Keeler
Greg Lamulle
Edward Wisner Donation
Norman Wildlife Consulting

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