



FROST SCIENCE

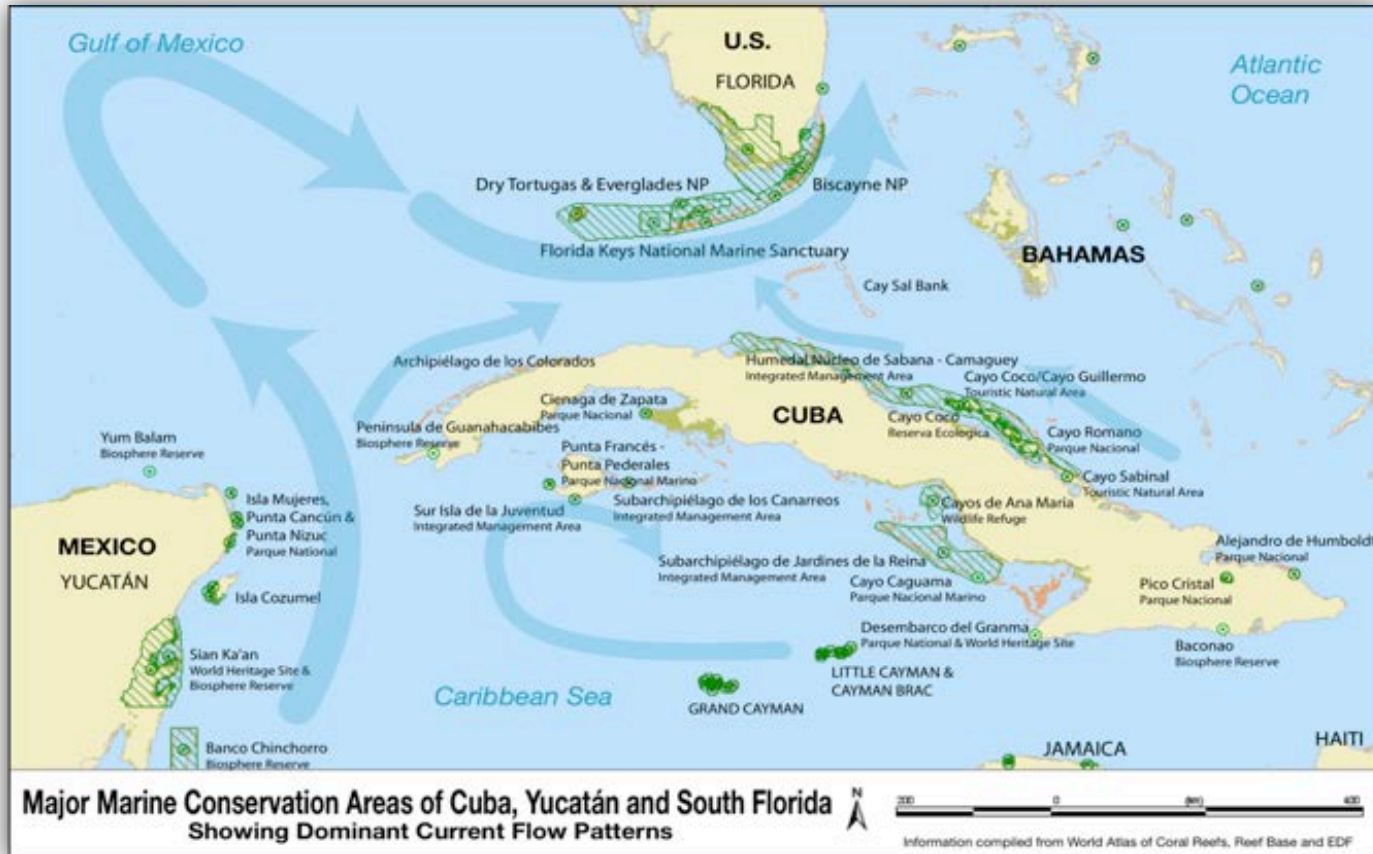


Two Decades of Friendship and
Collaboration with Cuba
Fernando Bretos, Curator of Ecology

Cuba: The Accidental Eden



Islands in the Stream



Advantages to Working in Cuba

Centrally owned lands/waters

Science drives policy decisions

Cuba committed to protecting 25% of country by 2020; over 18% achieved

Low population density/low tourism

Long coastlines and diverse biomes

Minimal anthropogenic impacts (so far!)



18 Years of Collaboration with University of Havana

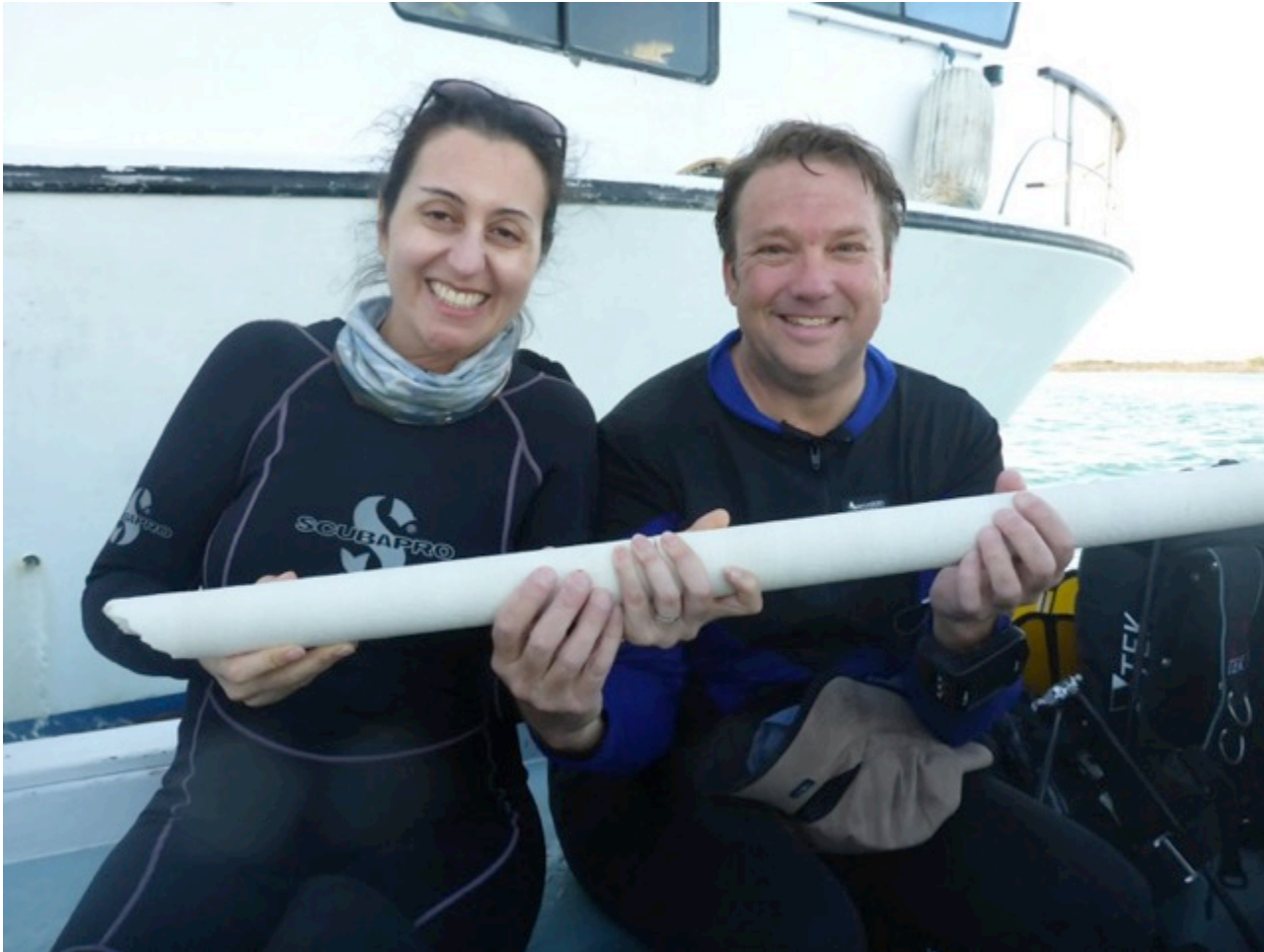


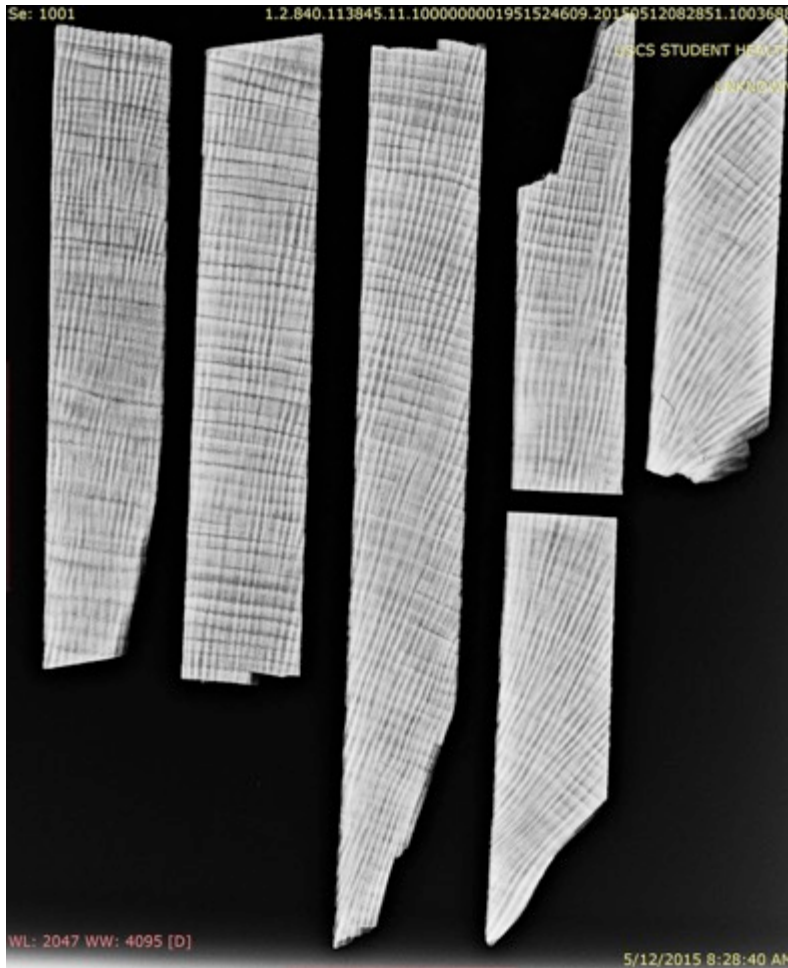
Proyecto Tres Golfos





227 Years of Ocean History





Using elemental ratio analysis we derive salinity and temperature over time to reconstruct climate records centuries

April 2016 Cruise to Gulf of Guanahacabibes



Sea Turtle Research



Major Sea Turtle Nesting Areas

Guanahacabibes



San Felipe



Isle of Youth



Cayo Largo



Arch. Sabana Camagüey



Cayería Doce Leguas



Costa Sur Oriental



Less than 50



50-200



200-500



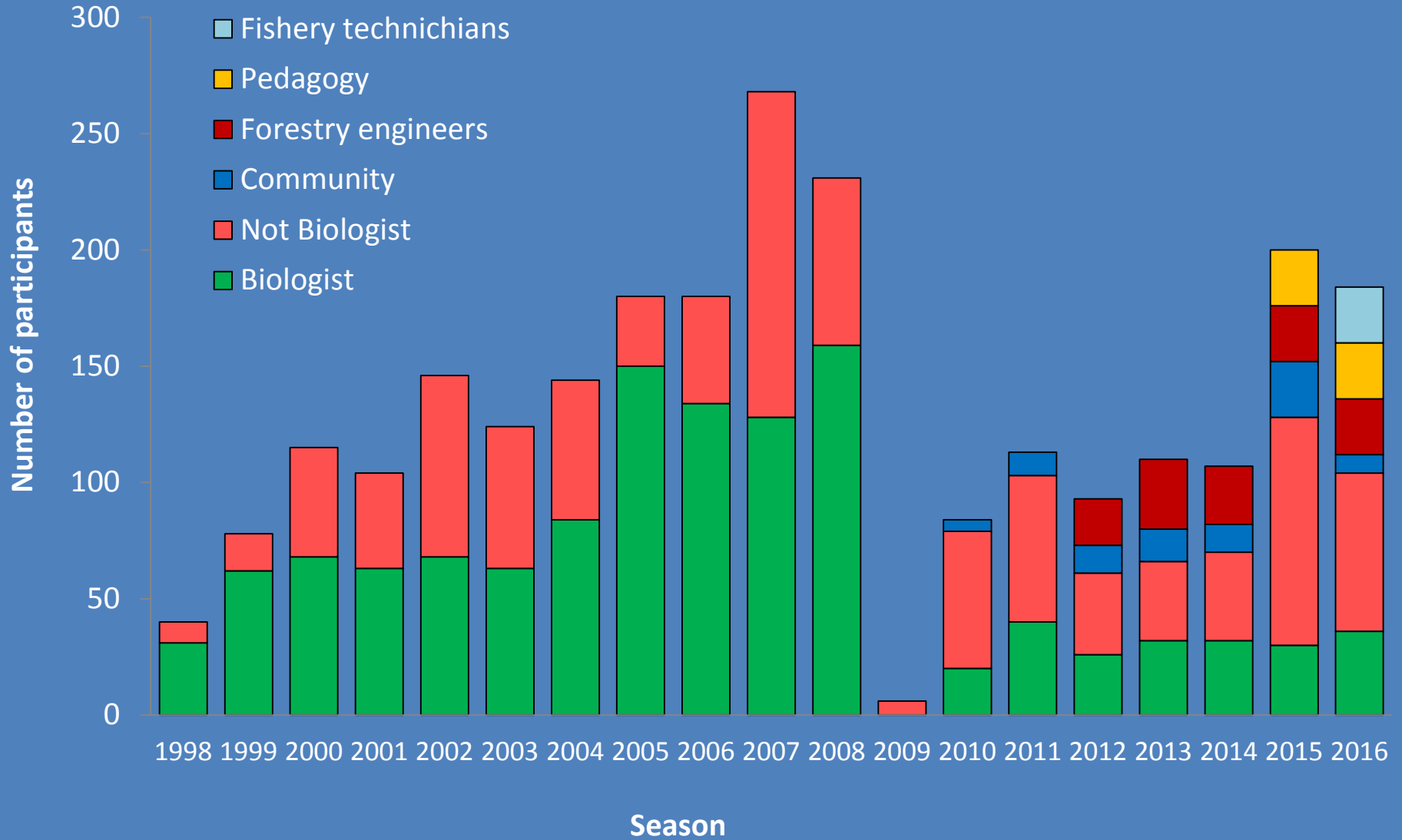
More than 500



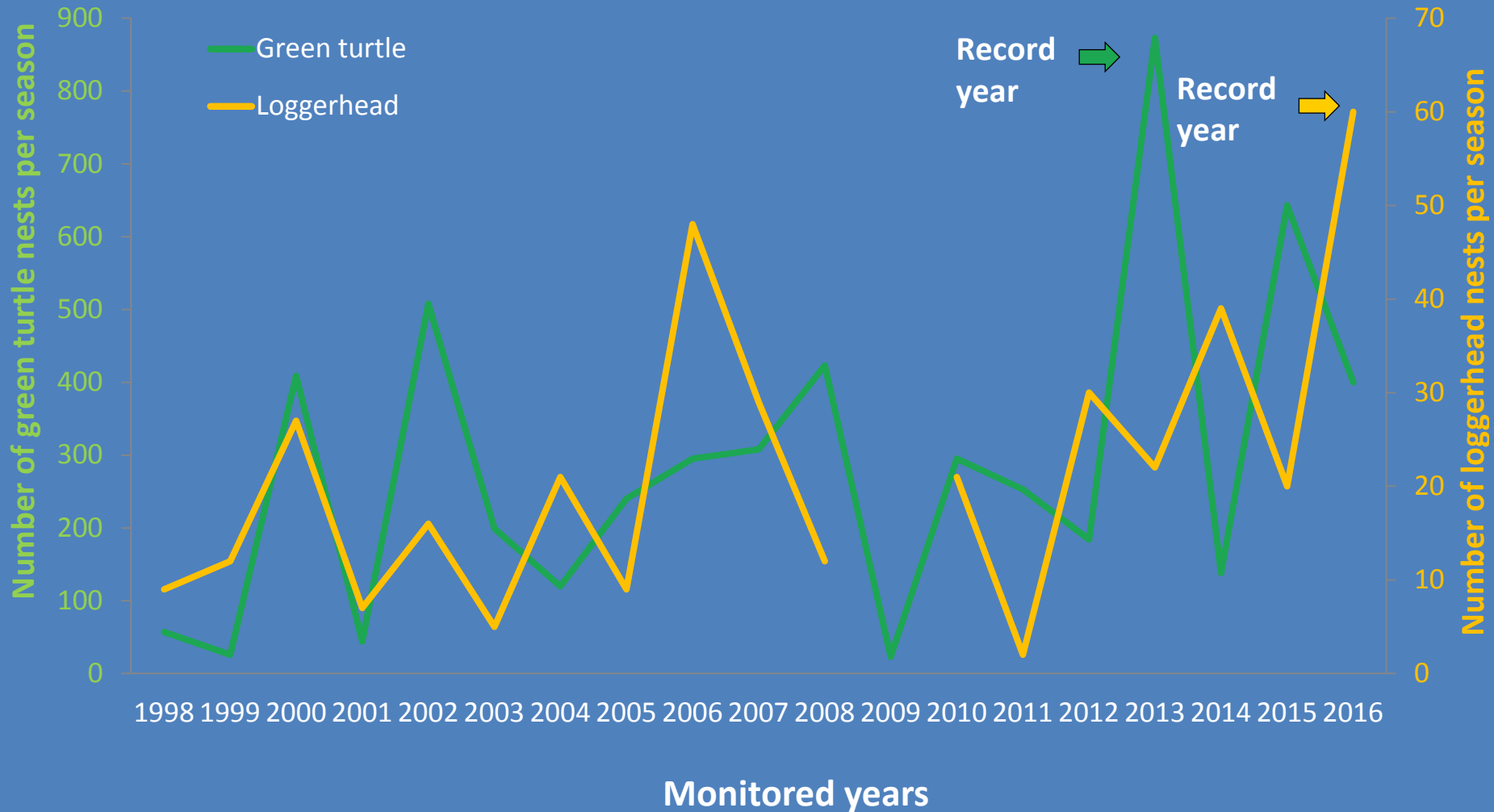
Guanahacabibes National Park



Volunteers (approximately 2,500)



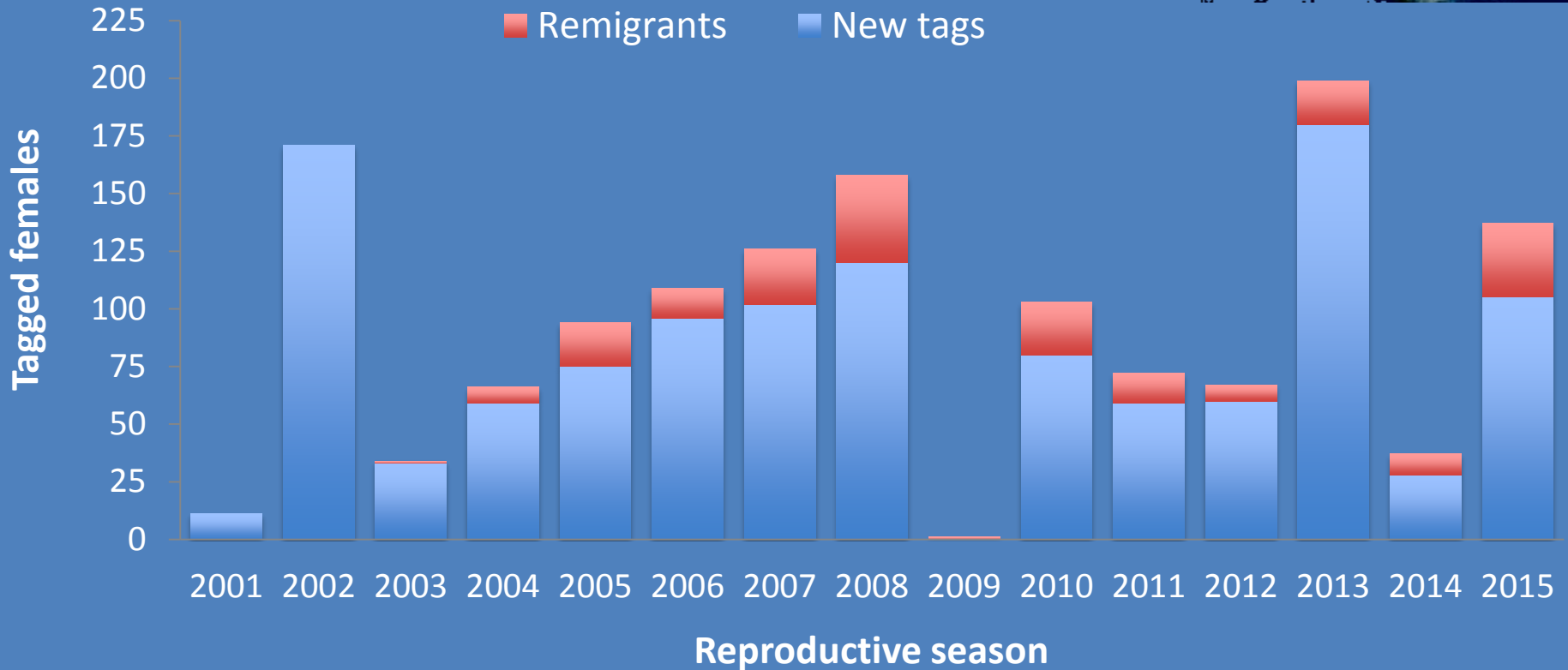
Nesting: 200 loggerhead 2,800 green



Tags:

47 loggerhead

1016 greens



Work with Local Communities



26/08/2010 15:14

Workshops to Promote Alternative Livelihoods

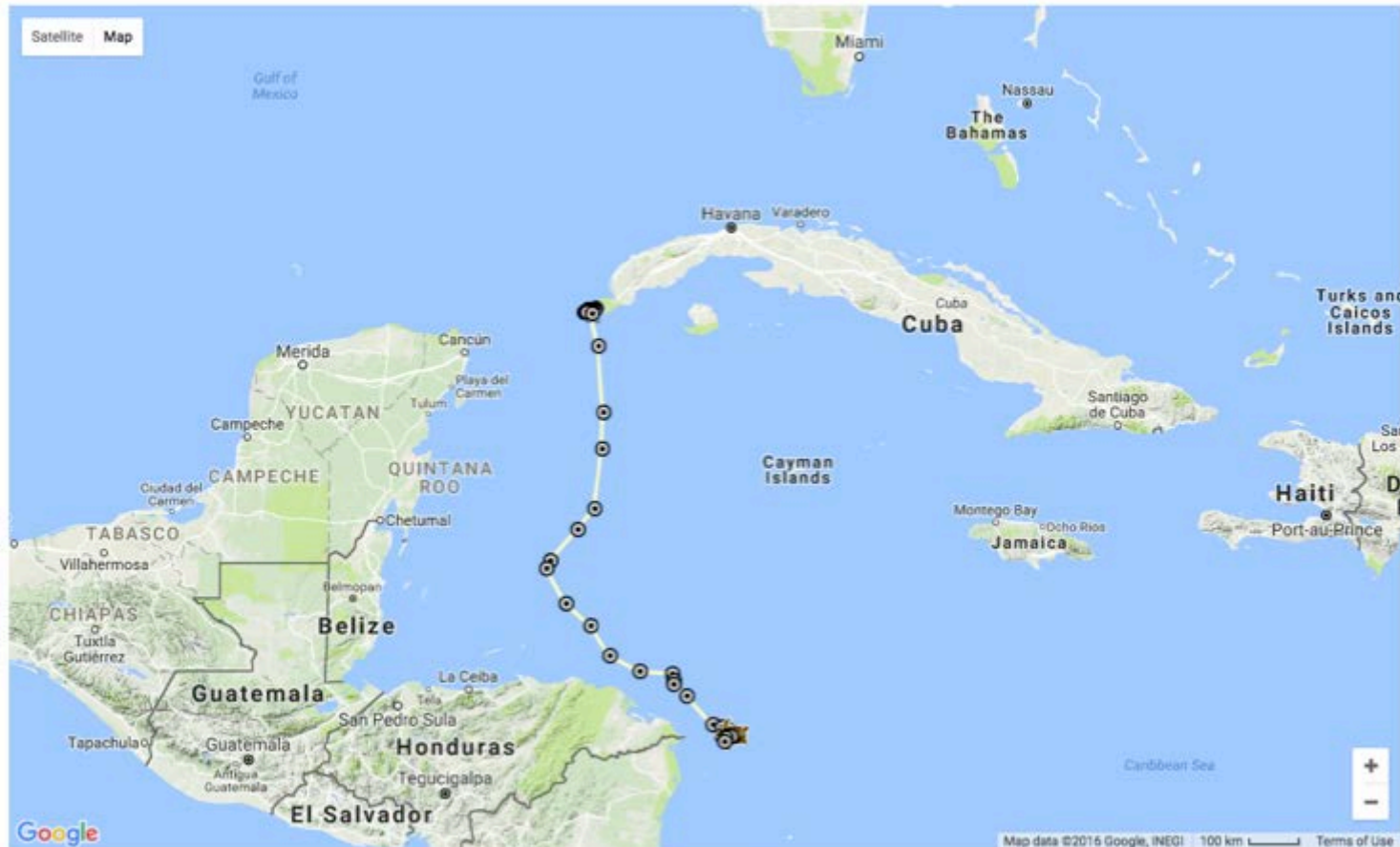


2012 Satellite Tracks



2016 Tracks: Julia

Satellite Tracking | Julia



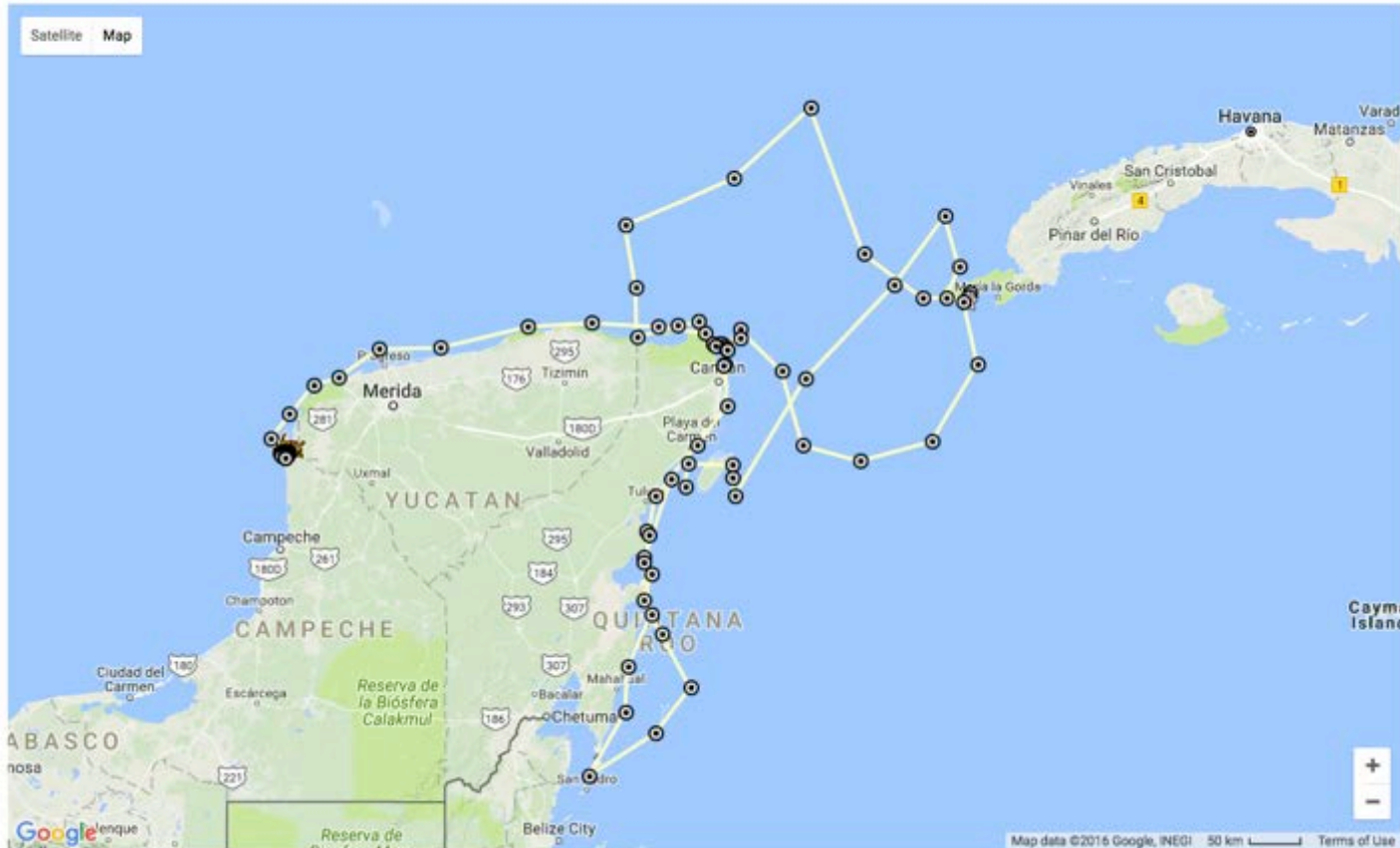
Click on the turtle or circle location icon for date and any notes.

Cumulative distance traveled: 1,325 km (823 miles)

Sponsors & Partners:

2016 Tracks: Esperanza

Satellite Tracking | Esperanza



Click on the turtle or circle location icon for date and any notes.

Cumulative distance traveled: 2,937 km (1,825 miles)

Sponsors & Partners:

Fishers' Exchanges



Trinational Initiative

CUBA - MEXICO - USA

TRINATIONAL INITIATIVE
FOR MARINE SCIENCE AND
CONSERVATION IN THE
GULF OF MEXICO
& WESTERN CARIBBEAN



INICIATIVA TRINACIONAL
EN CIENCIAS MARINAS Y
CONSERVACIÓN DEL
GOLFO DE MÉXICO Y EL
CARIBE OCCIDENTAL

CUBA - MÉXICO - EE.UU.



7th 3NI Workshop

Havana, November 14-15, 2015

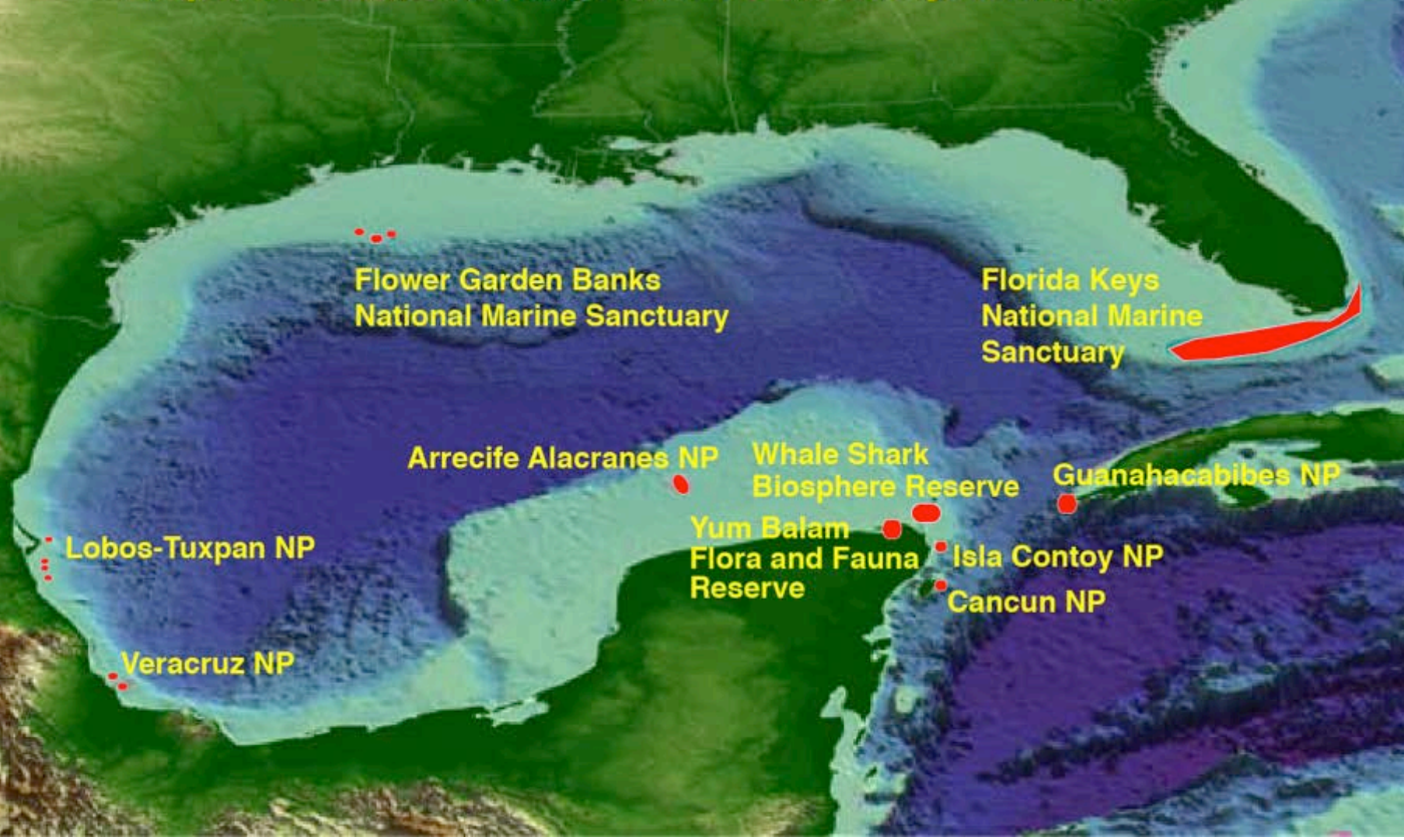


Our Oceans Conference, October 2015, Valparaíso, Chile
US Secretary of State John Kerry
Announces US – Cuba Sister Sanctuary Cooperation

JOHN F. KERRY
Secretario de Estado
Estados Unidos de América
United States of America,
Secretary of State



Proposed Gulf of Mexico Sister Sanctuary Network



It's Here!



Thanks

Web: www.cubamar.org;

www.trinationalinitiative.org

Email: fbretos@frostscience.org;

Twitter: twitter.com/fbretos

Facebook: www.facebook.com/cubamar.org

Instagram: www.instagram.com/cubamarine/