

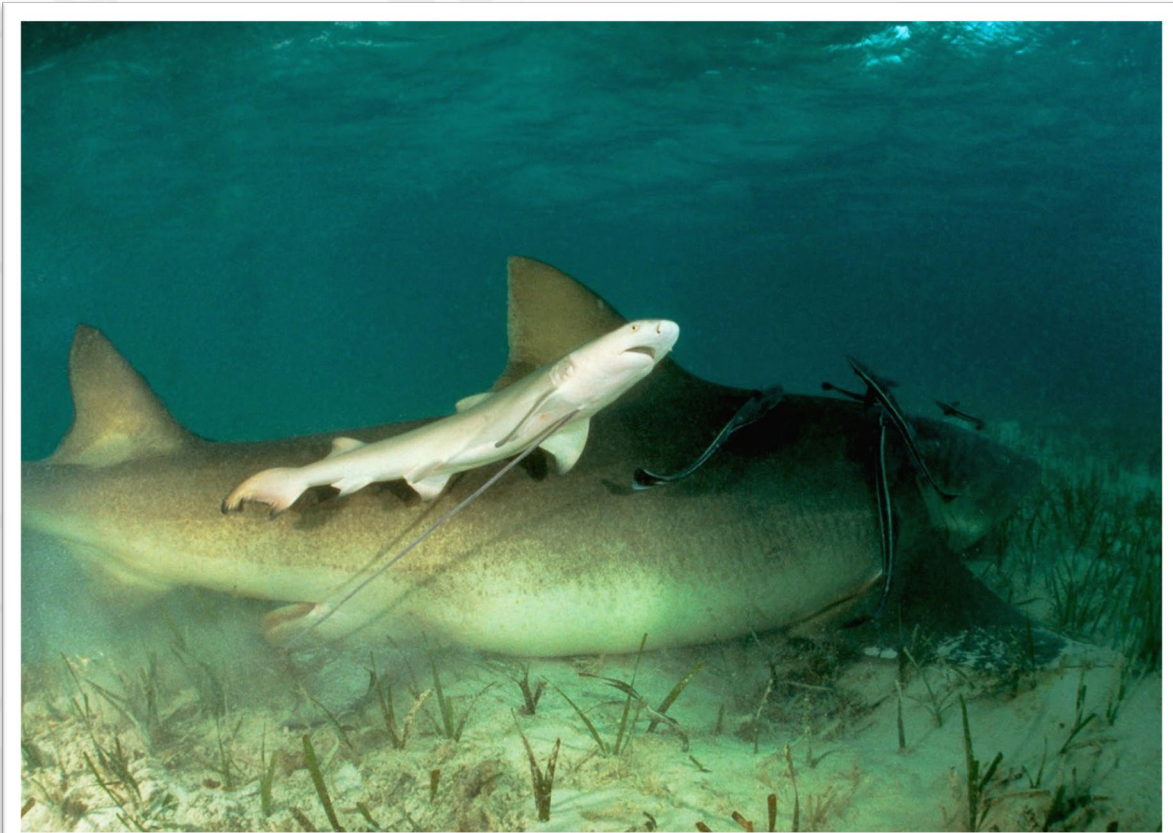
INTRODUCTION TO THE BIMINI SHARK LAB



RESEARCH | EDUCATION | CONSERVATION

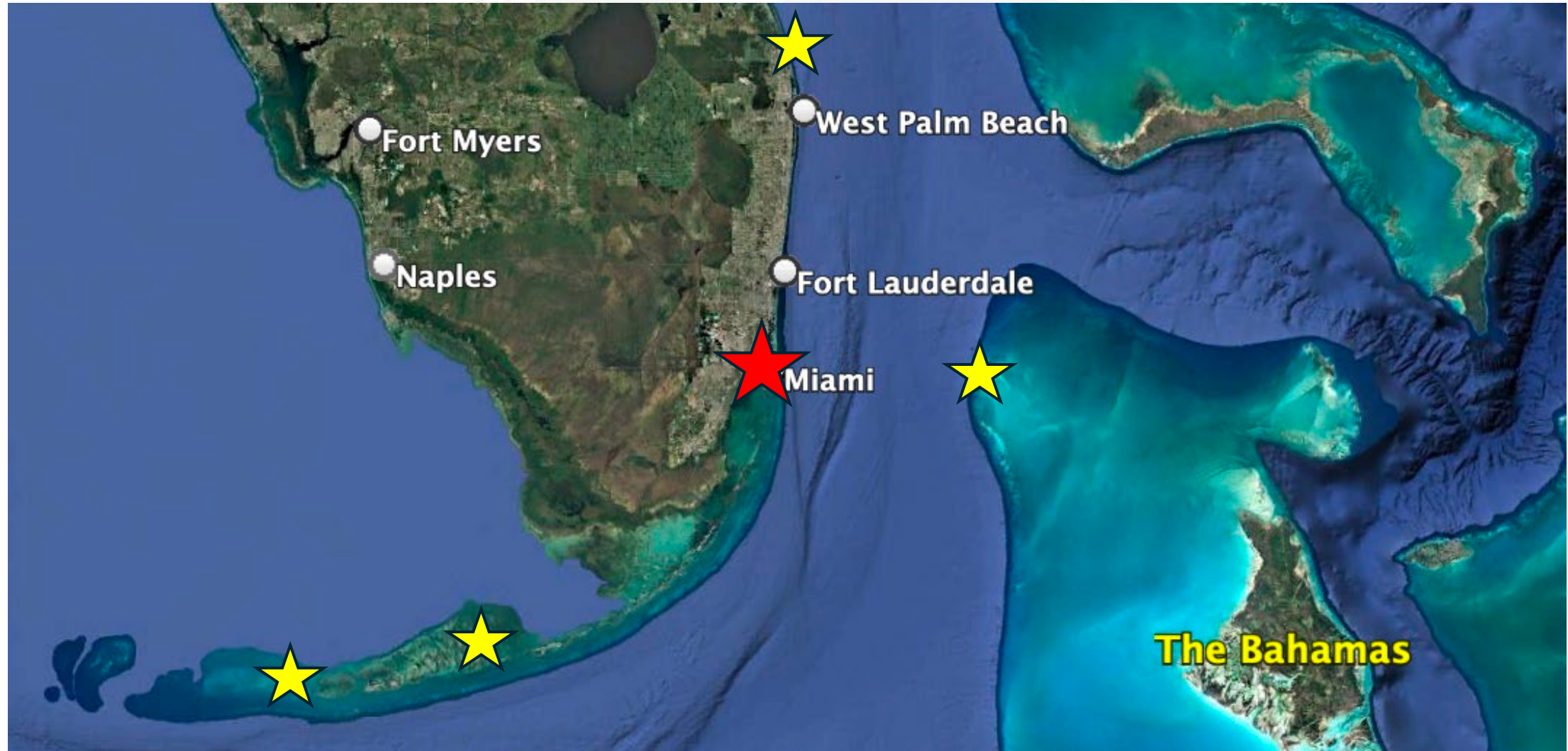
BIMINI SHARK LAB

BACKGROUND – DR SAMUEL GRUBER



BIMINI SHARK LAB

BACKGROUND – STUDY SITES



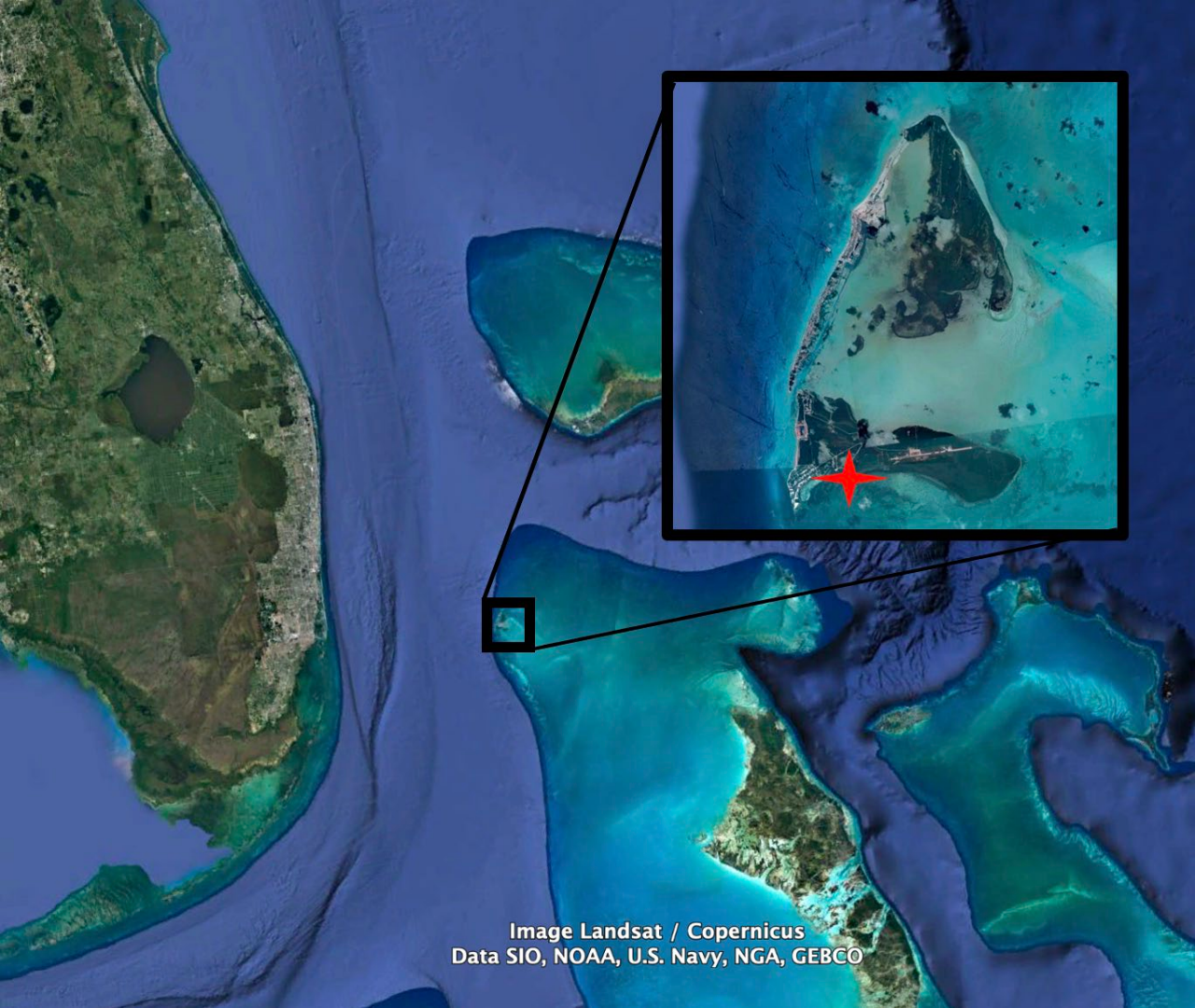


Image Landsat / Copernicus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO



BIMINI SHARK LAB

BIMINI SHARK LAB

BACKGROUND

- Founded by Dr. Samuel Gruber in 1990
- Supported 24 PhD and 38 MSc Students
- Over 1,000 international volunteers
- 150 peer reviewed publications
- 200 documentary productions
- Exploring new depths with new tech



BIMINI SHARK LAB

RESEARCH - BIMINI



THE BAHAMAS

Low historical shark harvest

Commercial longlines banned in 1993

Shark Sanctuary in 2011

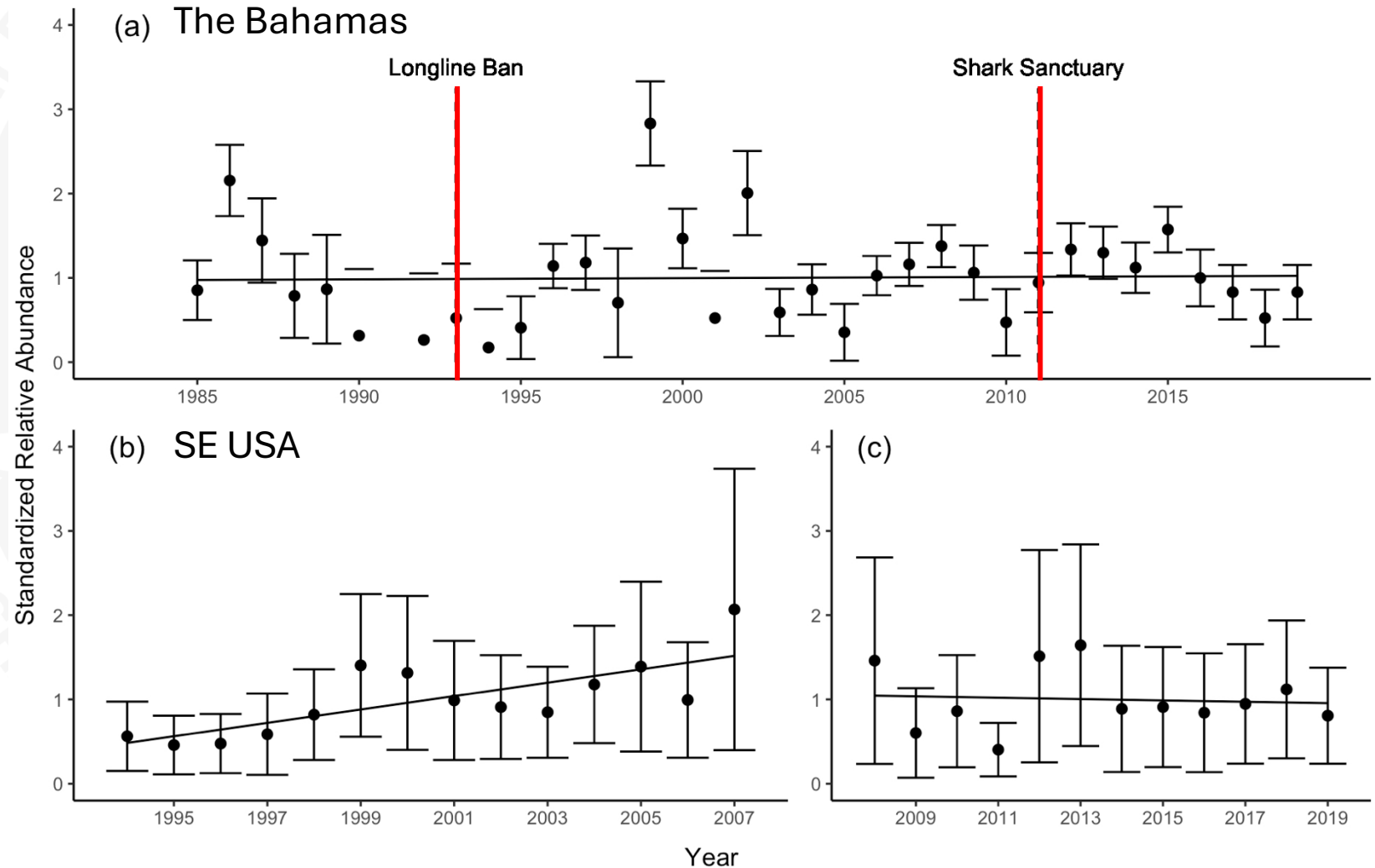
BIMINI SHARK LAB

RESEARCH - BIMINI

Tiger Shark Relative Abundance

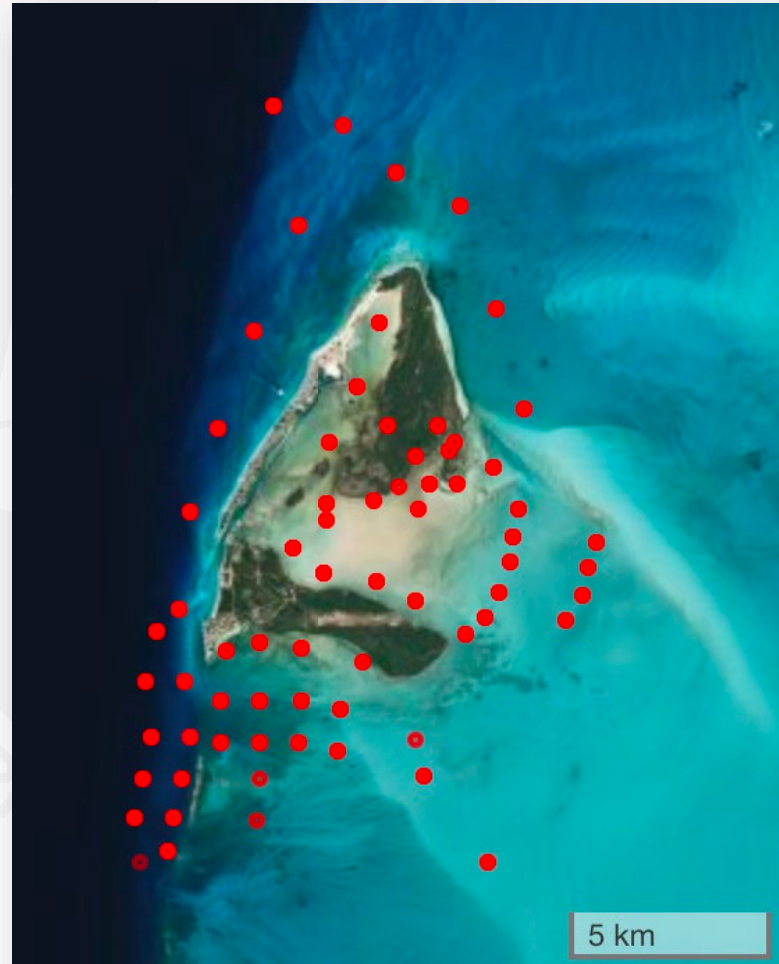


NOAA
FISHERIES



BIMINI SHARK LAB

RESEARCH - BIMINI

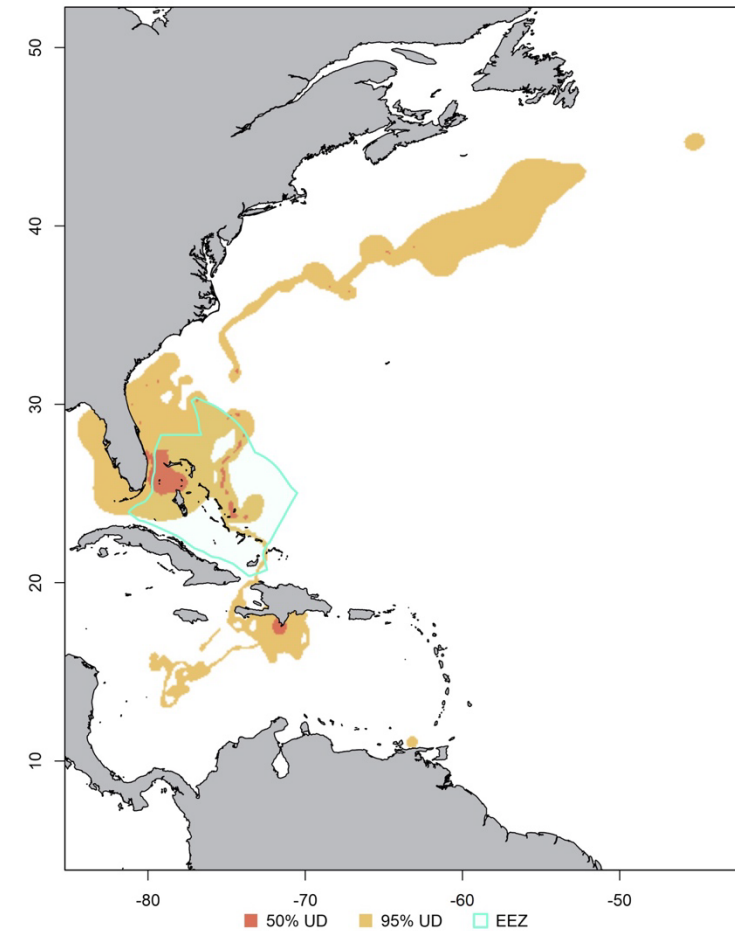
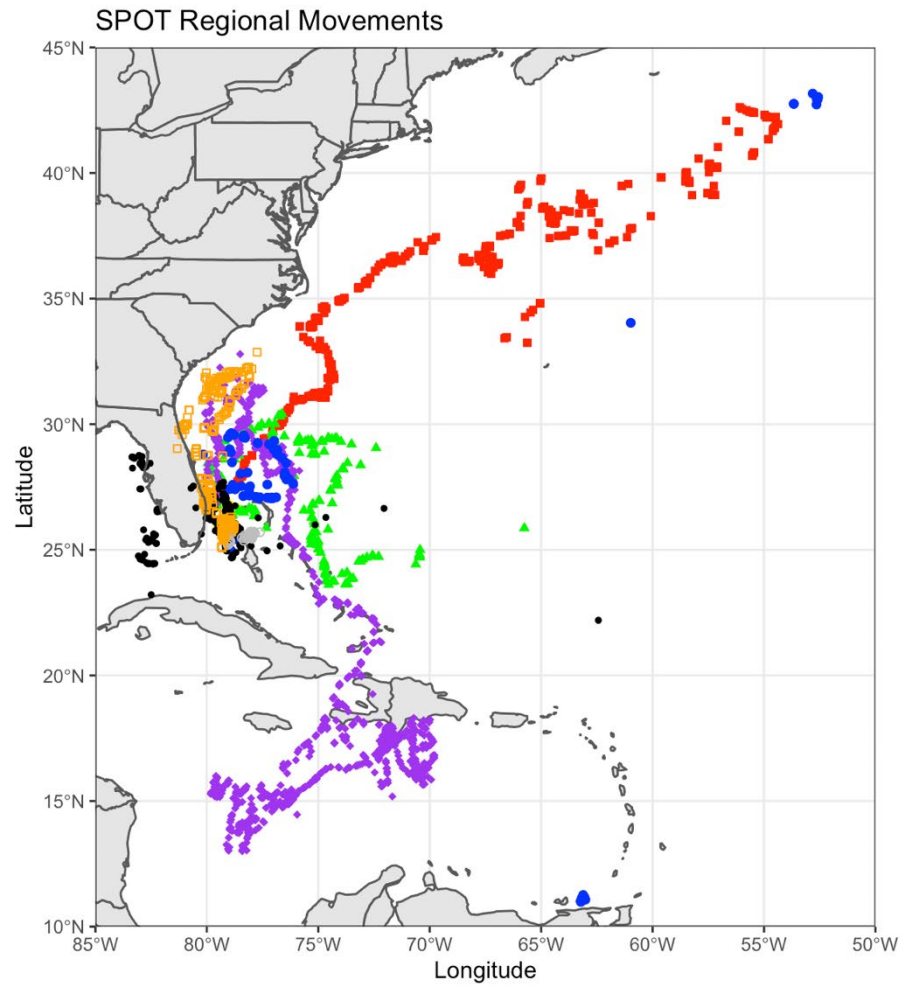


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RESEARCH - BIMINI



Tiger Shark Regional Movements

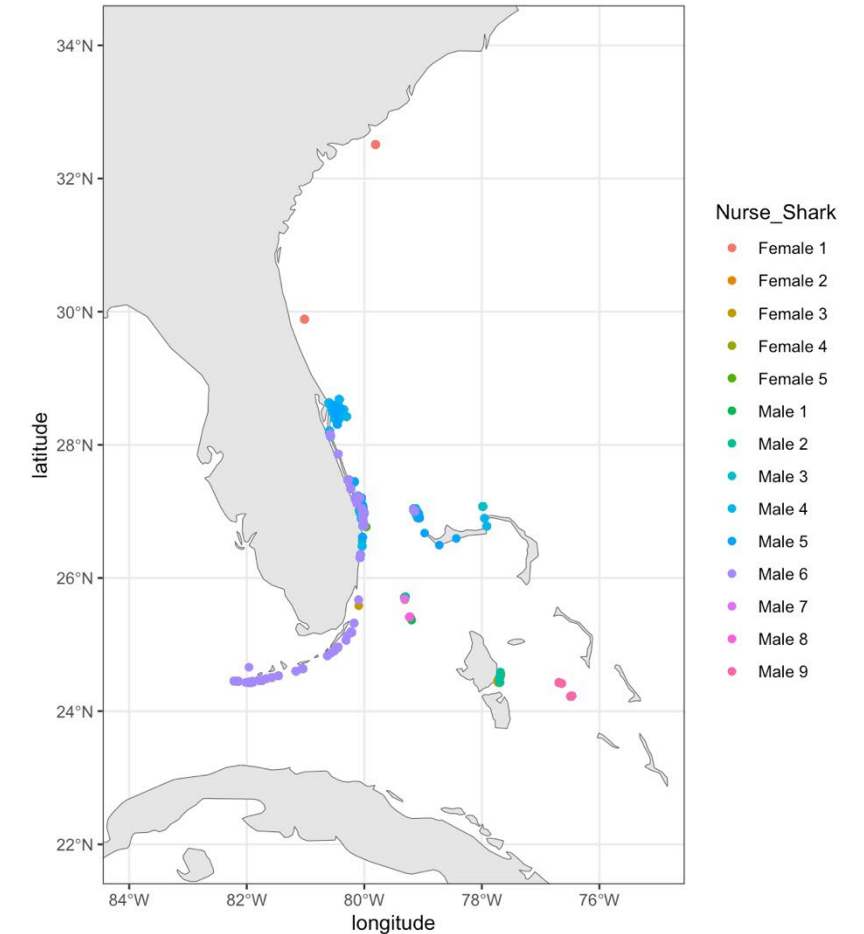


BIMINI SHARK LAB

RESEARCH - BIMINI



Nurse Shark Regional Movements

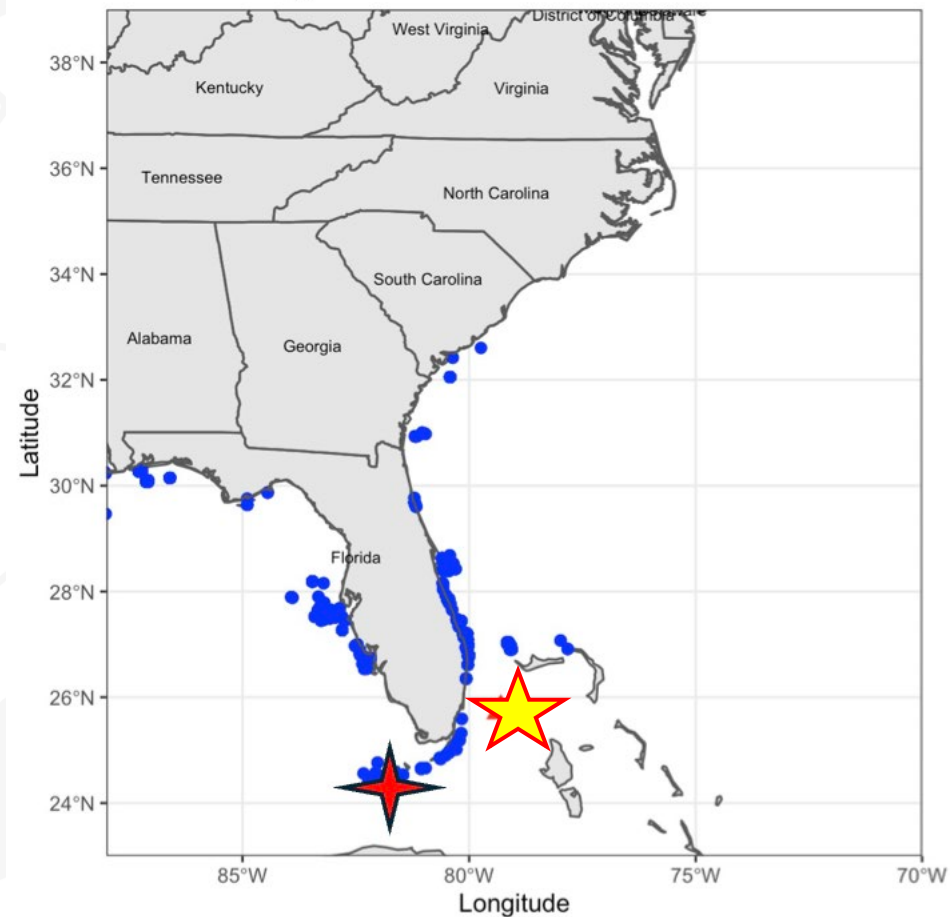


BIMINI SHARK LAB

RESEARCH – BIMINI

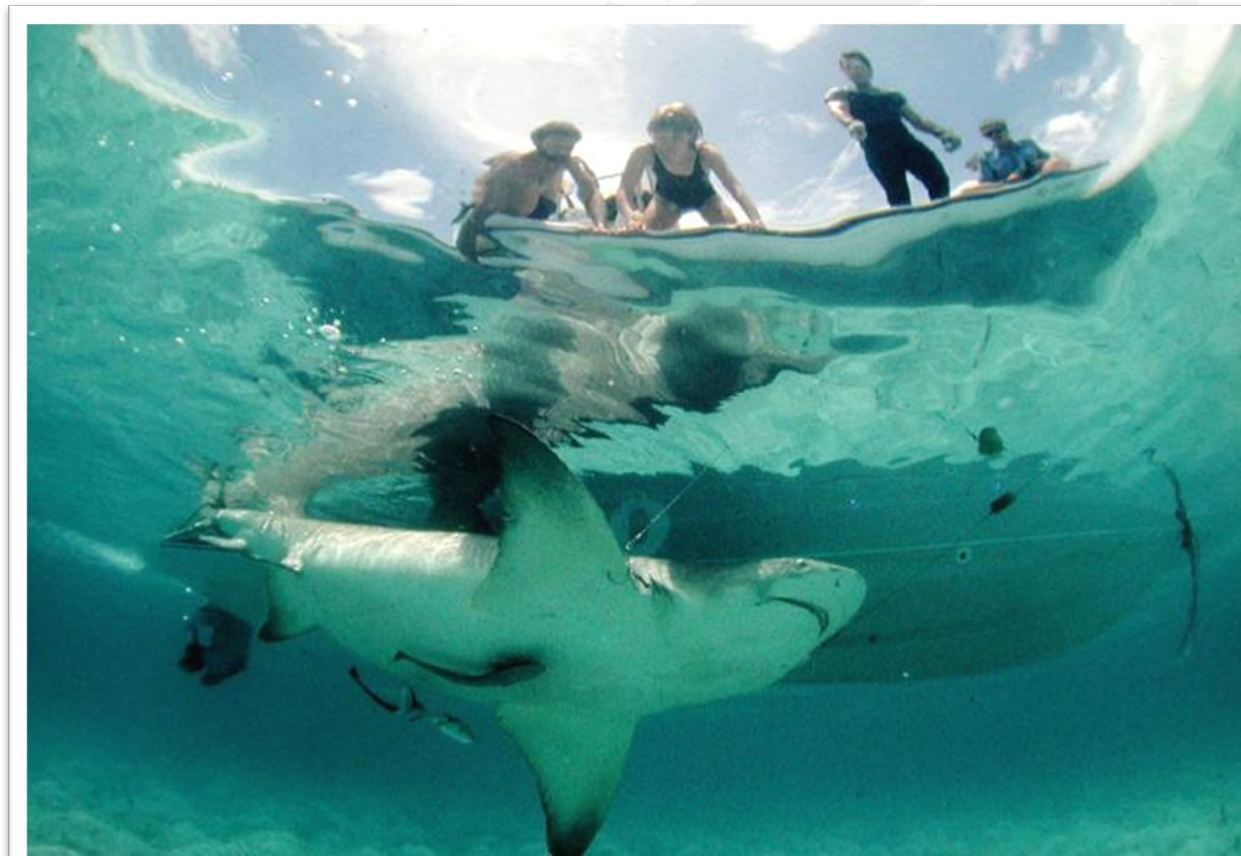


Bull Shark Regional Movements

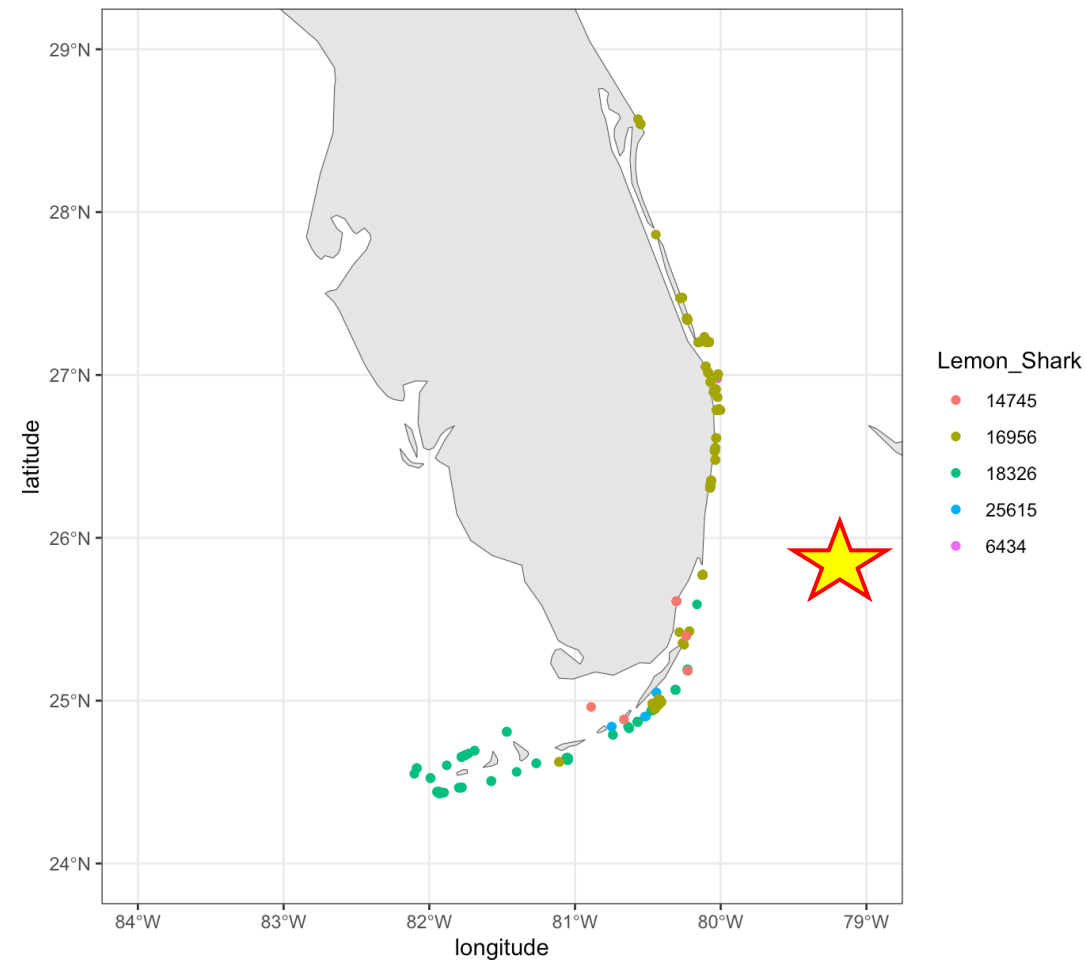


BIMINI SHARK LAB

RESEARCH – BIMINI



Lemon Shark Regional Movements



BIMINI SHARK LAB

RESEARCH – GREAT HAMMERHEAD



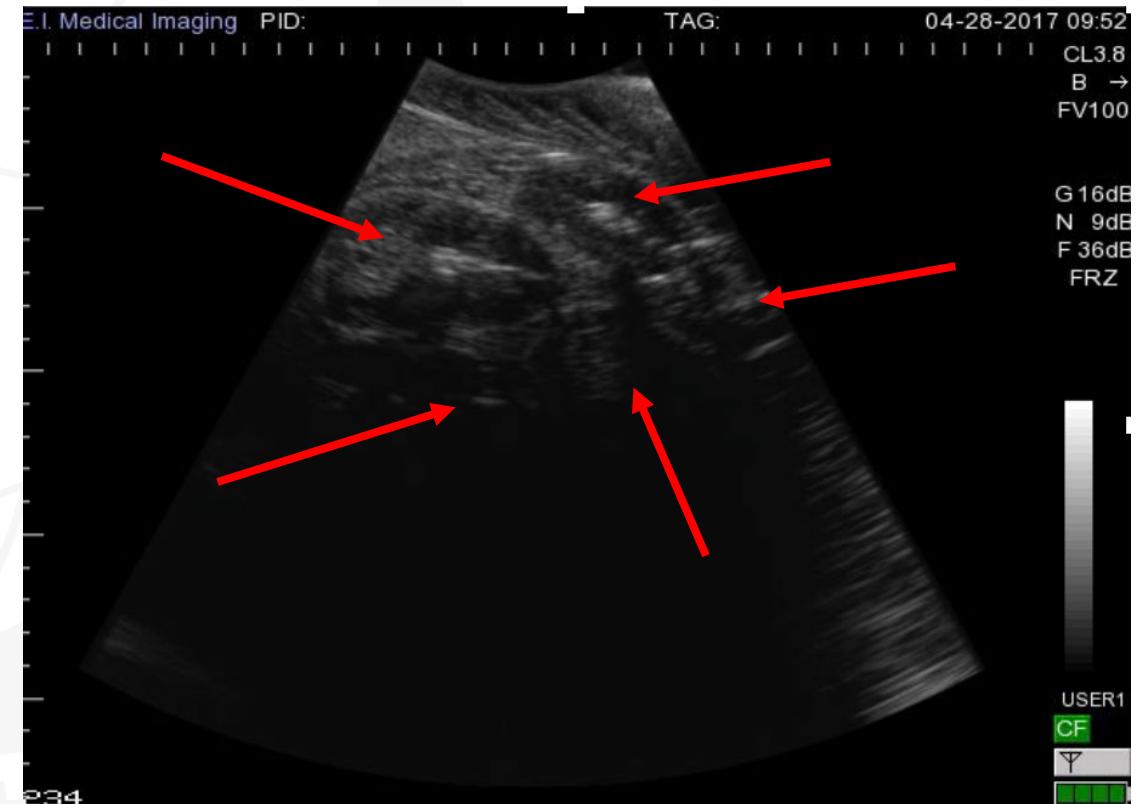
Wyatt Albert | Bimini Biological Field Station



Baylie Laddool | Bimini Biological Field Station

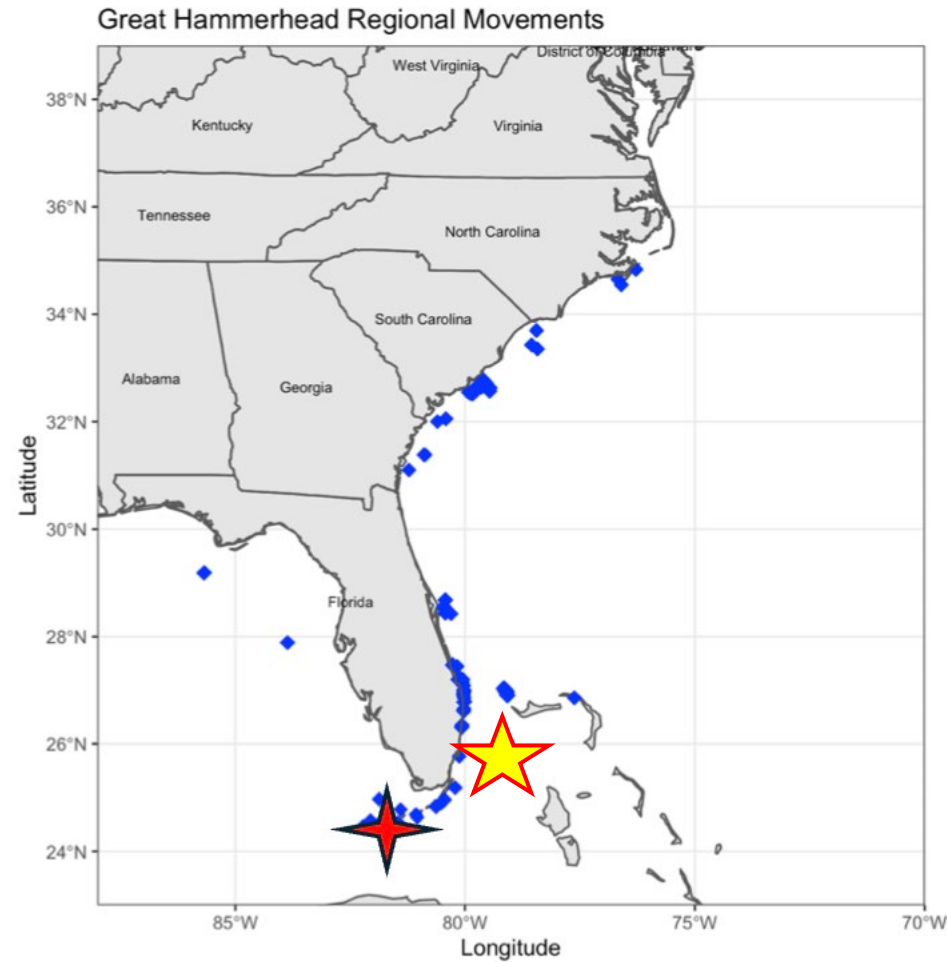
BIMINI SHARK LAB

RESEARCH – GREAT HAMMERHEAD



BIMINI SHARK LAB

RESEARCH – GREAT HAMMERHEAD



BIMINI SHARK LAB

RESEARCH – FLORIDA KEYS



ARTICLE

ECOLOGICAL
APPLICATIONS
ECOLOGICAL SOCIETY OF AMERICA

Predator–prey landscapes of large sharks and game fishes in the Florida Keys

Lucas P. Griffin¹ | Grace A. Casselberry¹ | Susan K. Lowerre-Barbieri² |
Alejandro Acosta³ | Aaron J. Adams^{4,5} | Steven J. Cooke⁶ | Alex Filous¹ |
Claudia Friess² | Tristan L. Guttridge⁷ | Neil Hammerschlag⁸ | Vital Heim^{9,10} |
Danielle Morley^{1,3} | Mitchell J. Rider⁸ | Gregory B. Skomal¹¹ |
Matthew J. Smukall⁹ | Andy J. Danylchuk¹ | Jacob W. Brownscombe⁶

ORIGINAL ARTICLE



WILEY

Movescapes and eco-evolutionary movement strategies in marine fish: Assessing a connectivity hotspot

Susan K. Lowerre-Barbieri^{1,2} | Claudia Friess² | Lucas P. Griffin³ |
Danielle Morley^{3,4} | Gregory B. Skomal⁵ | Joel W. Bickford² | Neil Hammerschlag⁶ |
Mitchell J. Rider⁶ | Matthew J. Smukall⁷ | Maurits P. M. van Zinnicq Bergmann^{7,8} |
Tristan L. Guttridge⁹ | Andrea M. Kroetz¹⁰ | R. Dean Grubbs¹¹ |
Carissa L. Gervasi¹² | Jennifer S. Rehage¹² | Gregg R. Poulakis¹³ |
Kim Bassos-Hull¹⁴ | Jayne M. Gardiner¹⁵ | Grace A. Casselberry³ | Joy Young¹⁶ |
Matt Perkinson¹⁷ | Debra L. Abercrombie¹⁸ | Dustin T. Addis² |
Barbara A. Block¹⁹ | Alejandro Acosta⁴ | Aaron J. Adams^{20,21} | Andy J. Danylchuk³ |
Steven J. Cooke²² | Frederick G. Whoriskey²³ | Jacob W. Brownscombe²⁴

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MARINE ECOLOGY PROGRESS SERIES
Mar Ecol Prog Ser

Published March 31



Regional-scale variability in the movement ecology of marine fishes revealed by an integrative acoustic tracking network

Claudia Friess^{1,*,#}, Susan K. Lowerre-Barbieri^{1,2,#}, Gregg R. Poulakis³, Neil Hammerschlag⁴,
Jayne M. Gardiner⁵, Andrea M. Kroetz⁶, Kim Bassos-Hull⁷, Joel Bickford¹, Erin C. Bohaboy⁸,
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Krystan A. Wilkinson^{7,12}, Joy Young¹³, Angela B. Collins^{1,14}, Breanna C. DeGroot¹⁵,
Cheston T. Peterson¹⁶, Caleb Purtlebaugh¹⁷, Michael Randall⁹, Rachel M. Scharer³,
Ryan W. Schloesser⁷, Tonya R. Wiley¹⁸, Gina A. Alvarez¹⁹, Andy J. Danylchuk²⁰,
Adam G. Fox¹⁹, R. Dean Grubbs²¹, Ashley Hill²², James V. Locascio⁷, Patrick M. O'Donnell²³,
Gregory B. Skomal²⁴, Fred G. Whoriskey²⁵, Lucas P. Griffin²⁰

¹Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission, St. Petersburg, FL 33701, USA

Full author addresses are given in the Appendix

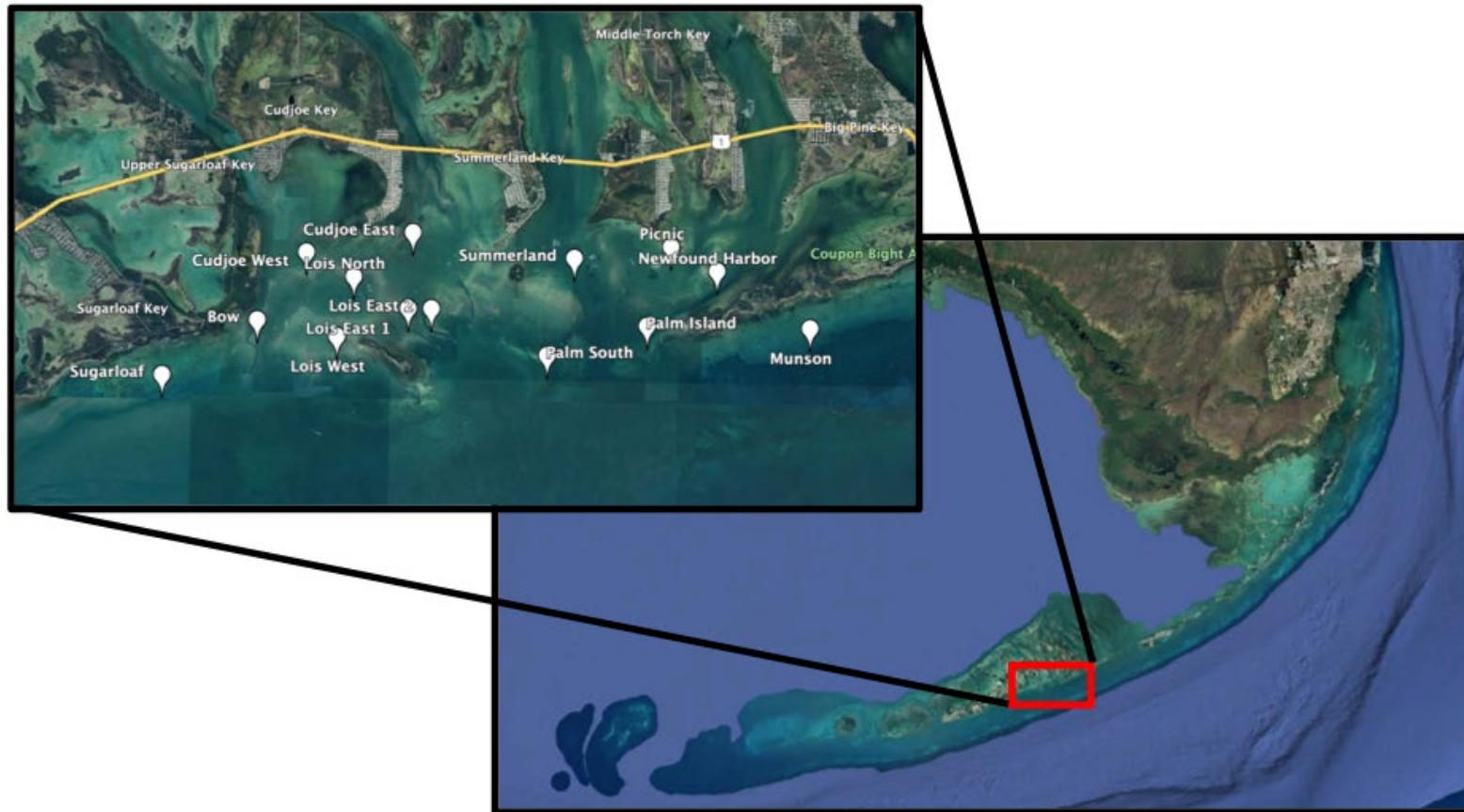
BIMINI SHARK LAB

RESEARCH – FLORIDA KEYS



BIMINI SHARK LAB

RESEARCH – FLORIDA KEYS



BIMINI SHARK LAB

RESEARCH – SHARK HEALTH



The Dance of Death Returns: Keys Spinning Fish Event, Historical Context and Overview from FWC

Micah Bakenhaster

Florida Fish & Wildlife Conservation Commission, St. Petersburg, Florida

Benthic Dinoflagellates, Spinning Fish, and Sawfish Mortalities: Is There a Connection?

Dr. Michael Parsons

Florida Gulf Coast University, Fort Myers, Florida

Pioneering a First-in-Kind, Fishing Guide-Led Model for Rapid Scientific and Ecological Response

Allison Delashmit

Key West and Lower Keys Fishing Guides Association, Summerland Key, Florida

Spinning Sawfish in the Florida Keys: Weather Conditions, Movements, and Mortality

Dr. Gregg Poulakis

Florida Fish and Wildlife Conservation Commission, Port Charlotte, Florida

Seascape and Food Web Impacts of the Fish Spinning Phenomenon in the Florida Keys

Dr. W. Ryan James

Florida International University, Miami, Florida

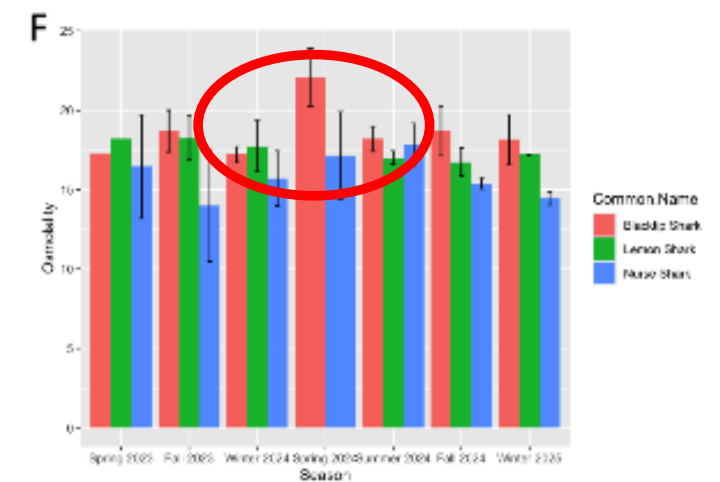
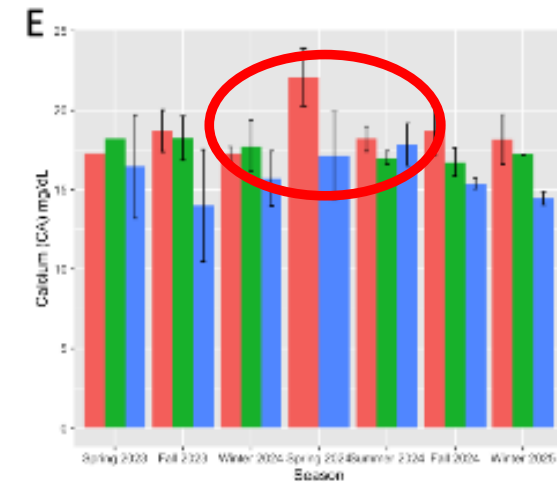
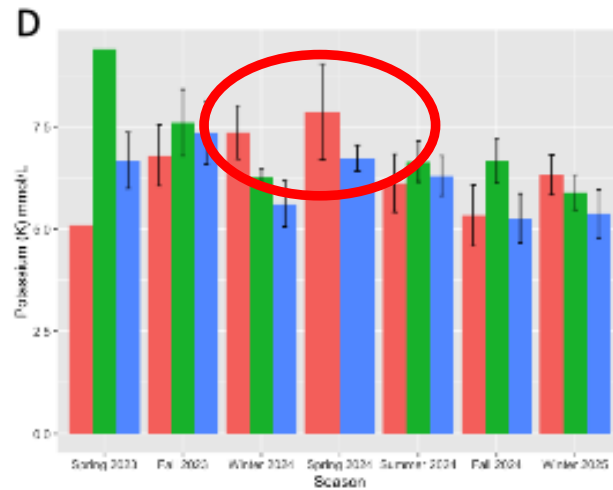
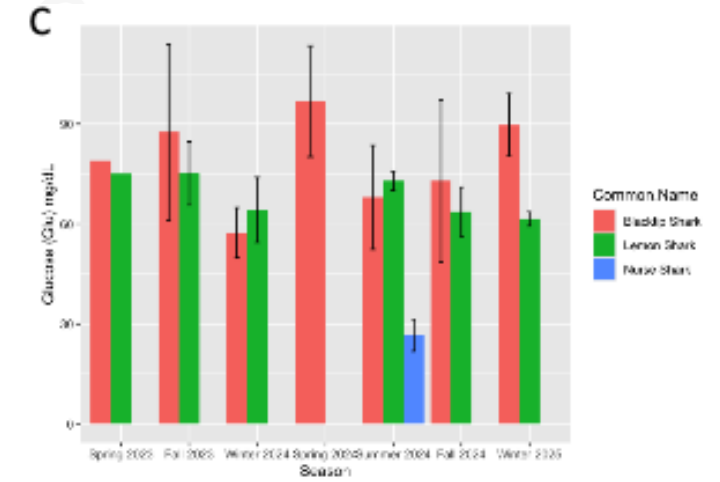
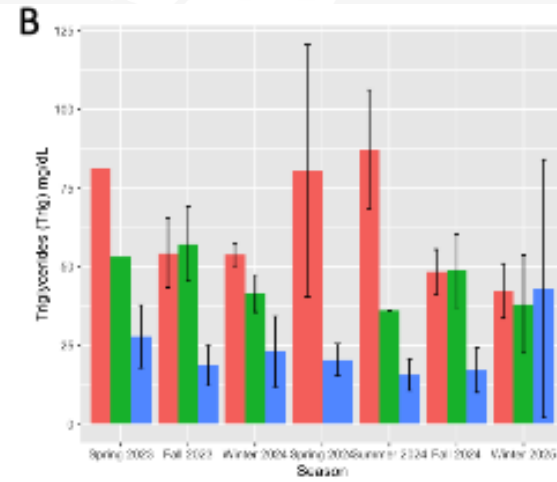
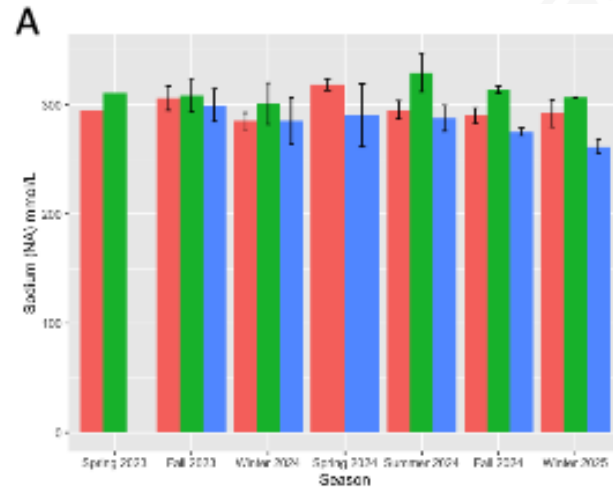
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RESEARCH – SHARK HEALTH



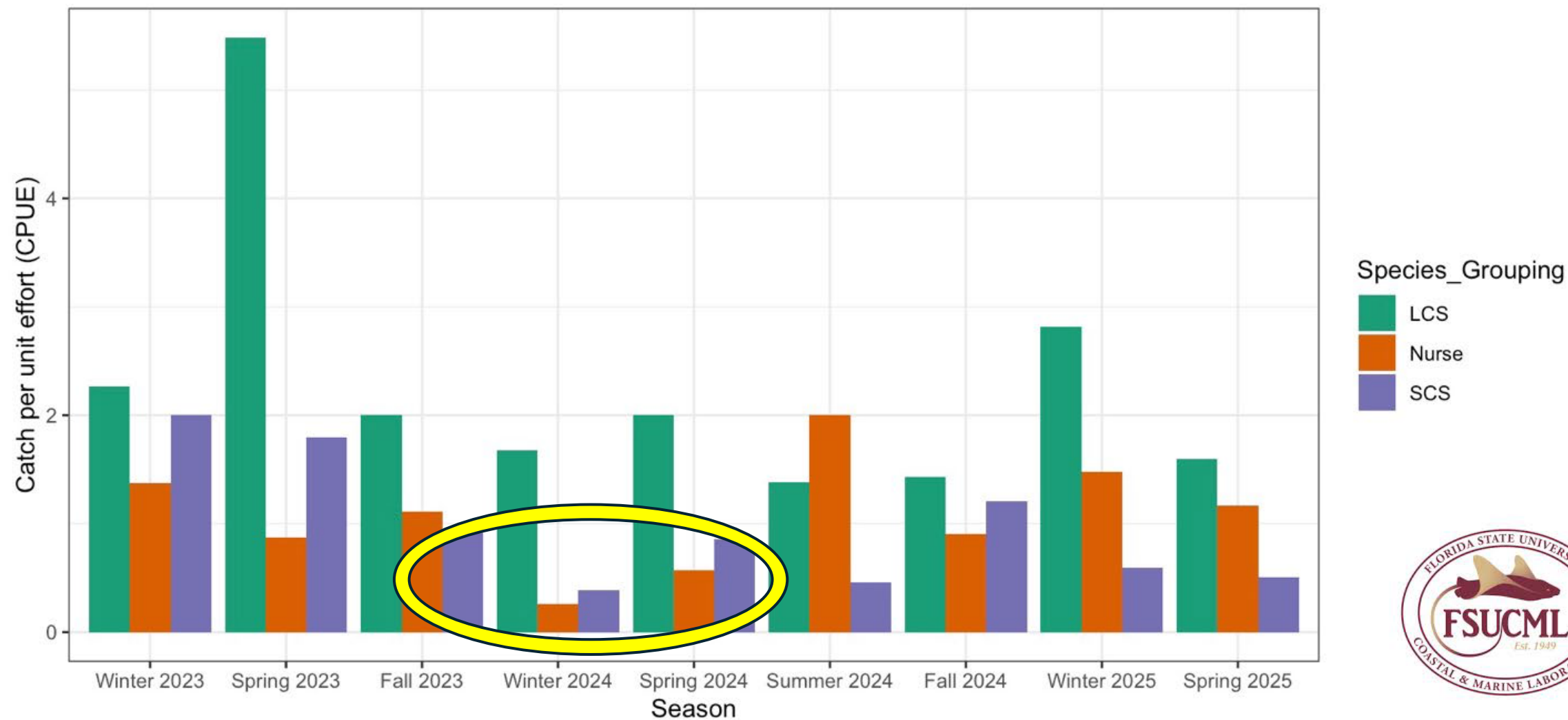
BIMINI SHARK LAB

RESEARCH – SHARK HEALTH



BIMINI SHARK LAB

RESEARCH – RELATIVE ABUNDANCE ON LONGLINES



BIMINI SHARK LAB

RESEARCH – NEXT STEPS

Currently Tracking

Lemons
Great Hammerheads
Bulls
Blacktips
Tigers
*Nurses



LOWER KEYS ACOUSTIC ARRAY



EDUCATION

INTERNSHIPS AND STUDENT SUPPORT



ACKNOWLEDGEMENTS

SPONSORS & SUPPORT



Thanks to the thousands of Shark Lab volunteers and crew over 35 years.



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