



Coastal Carolina University
Conway, South Carolina
March 23-25, 2018

Friday, March 23

5:00-6:00 **Registration:** Science Annex II lobby

6:00-9:00 **Reception:** Science Annex II lobby/courtyard

Saturday, March 24

8:30 **Registration:** Wall Building Auditorium (room 116)

9:00 **Welcome:** Rob Young, Marine Science Department, Coastal Carolina University

9:15 **Keynote Address:** "The Evolution of Cetaceans: Phylogenomics, Morphology, and Comparative Biology"
Dr. Michael McGowen, Curator of Marine Mammals, Smithsonian Institution

10:15 **Break**

Session 1 (* indicates student presentation)

10:45 ***Taylor Cook**, Ewa Krzyszczyk, Madison Miketa, and Janet Mann
Social phenotypes in the Indo-Pacific bottlenose dolphin (*Tursiops aduncus*)

11:00 ***Caitlin Karniski**, Ewa Krzyszczyk, Janet Mann
Grandmother effects in bottlenose dolphins

11:15 ***Jordan M. Rutland**, Robin M. Perrtree, Tara M. Cox
A review of methods used to calculate life history indices of female bottlenose, *Tursiops truncatus*

- 11:30 ***Jamie L. Brusa**, Jay J. Rotella, & Robert A. Garrott
Survival of male Weddell seals in Erebus Bay, Antarctica
- 11:45 ***Roosevelt A. Mesa**
Interactions between short-finned pilot whales (*Globicephala macrorhynchus*) and Pelagic Longline Fisheries in the Cape Hatteras Special Research Area (CHSRA)
- 12:00 ***Amber O. Brown**, Quincy A. Gibson, Dale Casamatta
Komarekiella delphikhthonos sp. nov. (Cyanobacteria): an epidermal cyanobacterium implicated in an estuarine bottlenose dolphin (*Tursiops truncatus*) fatality

12:15-1:15 **Lunch** at Hicks Dining Hall

Session 2 (* indicates student presentation)

- 1:15 ***Emily Griffin**, B. Balmer, P. Rosel, R. Perrtree, and T. Cox
Examining stock structure of common bottlenose dolphins (*Tursiops truncatus*) through photo-identification and genetic analyses
- 1:30 ***Alaina Young**, S. Elbon, and J. Taylor
Determining the northern range of the NNCES stock of bottlenose dolphins (*Tursiops truncatus*) through photo-identification
- 1:45 ***Candice M. Vinson**, Robin M. Perrtree, Tara M. Cox, Emily K. Griffin
Determining seasonal home ranges and density distribution of common bottlenose dolphins *Tursiops truncatus*
- 2:00 ***Justin Daniels**, Louis Keiner, and Robert Young
Does primary production drive the migration patterns of coastal stocks of Atlantic Bottlenose Dolphins (*Tursiops truncatus*)?
- 2:15 ***Hannah G. Wareheim** and Robert F. Young
Trophic levels of oceanic and estuarine bottlenose dolphins in South Carolina from stable carbon and nitrogen isotopes
- 2:30 ***Jackie P. Kroeger**, W.A. McLellan, L.H. Arthur, B.P. Velten, D.A. Pabst
Locomotor muscle morphology of three species of pelagic delphinids
- 2:45 ***Sarah N. Powell**, Megan M. Wallen, Shweta Bansal, Janet Mann
Epidemiological investigation of tattoo-like lesions among bottlenose dolphins in Shark Bay, Australia

3:15-5:15 **Poster Session**

6:30 - 9:30 **Banquet** – Burroughs and Chapin Center for Marine and Wetland Studies Warehouse

Sunday, March 25

8:55 **Welcome and morning announcements**

Session 3 (* indicates student presentation)

- 9:00 **Hada Herring**, D. Boyd, D. Levine, M. Schubert, A. Panike, & G. Lonati
Pseudorca crassidens Mass Stranding Event in Southwest Florida: Significant Findings, Challenges, and Recommendations
- 9:15 **John J. Ososky**
A History of Antarctic Baleen Collected for the Smithsonian from Post-WWII Japan
- 9:30 **Brian Quigley**, Brian Balmer, Trent McDonald, Jaime Thompson, Jeanine Morey, Todd Speakman, Stephanie Watwood, and Lori Schwacke
Assessing stock overlap of common bottlenose dolphins (*Tursiops truncatus*) in the northern Gulf of Mexico using a novel approach: semi-automated dorsal fin matching
- 9:45 **Carrie Hubbard**
Marine Mammal Permitting: What's new, what's not, and what you need to know
- 10:00 **Rob Young**
Concluding Remarks
- 10:15 **Break**
- 10:45 **Awards and Business Meeting**

Poster Presentations

(lead presenters in bold)

Kristy Brightwell and Quincy Gibson

Preliminary examination of sexual dimorphism in Northeast Florida bottlenose dolphins (*Tursiops truncatus*)

Talia Buenrostro, Lisa Campbell, Jason Dinh, Joseph Fader, **Briana Kleiner***, Alejandro Garcia Lozano, Samantha McLendon, Roosevelt Mesa, **Lauren Pederson***, Andrew Read, Hillary Smith, Danielle Waples, Noah White

Pilot whale depredation in the Atlantic pelagic longline fishery: an interdisciplinary approach

Brandon C. Cathey, Nicole M. Thometz, Robin C. Dunkin, Dawn P. Noren, Marla Holt, Terrie M. Williams, and Jennifer L. Dearolf

Fiber-type profiles and enzyme activities of the vocal muscles of long-beaked common dolphins (*Delphinus capensis*) and killer whales (*Orcinus orca*)

Cunningham, C.H., Campbell, G.A., McAlarney, R.J., McLellan, W.A., Rotstein, D., Bialek, J.W., Conrad, C. and D.A. Pabst

Lethal Great White Shark (*Carcharodon carcharias*) Attack on a Bottlenose Dolphin (*Tursiops truncatus*) off the coast of North Carolina

Christianna S. DeWind and Dr. Heidi Harley

HOW FAR DOES A WHISTLE TRAVEL? THE ESTIMATED ACTIVE SPACE OF THE HARMONICS OF BOTTLENOSE DOLPHIN (*Tursiops truncatus*) WHISTLES IN SARASOTA BAY, FLORIDA

Jaclyn Doody, Jessica Taylor, Nan Bowles and Keith Rittmaster

Analyzing the Strength of Male Bottlenose Dolphin (*Tursiops Truncatus*) Associations at Adjacent North Carolina Study Sites

Emily M. Goldbach and Quincy A. Gibson

Analysis of Vessel Interaction Rates with Bottlenose Dolphins (*Tursiops truncatus*) in the St. Johns River, Jacksonville, FL

Deborah Kleinclaus, Robin M. Perrtree, Tara M. Cox

Seasonal presence of common bottlenose dolphins (*Tursiops truncatus*) in the waters around Savannah, Georgia

Andrea Mason, Kristy Brightwell, and **Quincy Gibson**

Reproductive success of bottlenose dolphins (*Tursiops truncatus*) in the St. Johns River, Florida

Molly McEntee, Ewa Krzyszczyk, Vivienne Foroughirad, Celine Frere, and Janet Mann

Age and sex-specific survivorship in a long-lived bisexually philopatric species

Riley Norman, Francesca Roselli, Daniela Silva, and Robert Young

Is There a Correlation Between Estuarine Habitat Complexity and Survey Density of Bottlenose Dolphins (*Tursiops truncatus*)?

Robin M. Perrtree, Amy K. Shook, and Tara M. Cox
Field group size estimates: How close are we?

S. Pinto, C. George, T. Kolkmeier, and T. Cox
Analyzing Potential Trends for the Occurrence of the Florida Manatee (*Trichechus manatus latirostris*)
along the Coast of Georgia

Keith A. Rittmaster, Nan I. Bowles, Joshua T. Summers, and Victoria G. Thayer
Stranding response and skeletal rearticulation of an Atlantic spotted dolphin (*Stenella frontalis*)

Francesca M. Roselli, Dani Silva, and Robert F. Young
Analyzing stock boundaries of the common bottlenose dolphin (*Tursiops truncatus*) in the South Carolina
estuarine system stocks

Dani Silva, Adam Fox, Jamie Brusa, and Rob F. Young
When Dolphins Break the Rules. An Estuarine Dolphin's Journey Across Two Stock Boundaries In South
Carolina

Bailey J. Slater and Quincy A. Gibson
Seasonal patterns of skin lesion prevalence and type in the St. Johns River, FL, bottlenose dolphins
(*Tursiops truncatus*)

Emily A. Szott and Quincy Gibson
Residency and site fidelity of an estuarine dolphin population

Victoria G. Thayer, Jill M. Sullivan, and Keith A. Rittmaster
Common bottlenose dolphin (*Tursiops truncatus*) strandings in Pamlico and Albemarle Sounds and
adjacent rivers and tributaries, North Carolina, 2010-2017

Rachel E. Unger, Daniela Silva, and Robert Young
Distribution of coastal bottlenose dolphins, *Tursiops truncatus*, along the northern South Carolina coast
in relation to tidal stage, season, and distance from inlets

Hannah Weinberg, Daniela Silva, and Robert Young
Skin lesion prevalence on bottlenose dolphins (*Tursiops truncatus*) from coastal waters near Murrells
Inlet, SC