

**NORTH ATLANTIC RIGHT WHALE CONSORTIUM
2016 ANNUAL MEETING**

2-3 November 2016
New Bedford Whaling Museum, New Bedford, MA USA

02 NOVEMBER 2016

- 0800 Breakfast Available
0800-0830 Registration / Check-In
0830 Welcome
- 0840 Unexpected Consequences of Shifting Distributions and Conflicts with Human Activities: Implications for Right Whale Recovery. **Scott Kraus**; Brown, M.; Hagbloom, M.; Hamilton, P.; Knowlton, A.; Marx, M.; Pendleton, D.; Pettis, H.; Rolland, R.; Werner, T.; Zani, M.
- 0855 North Atlantic Right Whale Catalog Update and Whale Naming Results. **Philip K. Hamilton**; Hagbloom, M.; Knowlton, A.; Marx, M.; Pettis, H.; Zani, M.
- 0915 North Atlantic Right Whale Mortalities: Nov 2015 – Sep 2016. McLellan, W.; Costidis A.M.; Doughty, L.A.; Durham, K.F.; Niemeyer, M.; **Tonya Wimmer**; **Michael Moore**
- 0930 North Atlantic Right Whale Entanglements: November 2015 – October 2016. **Scott Landry**
- 0945 NMFS Update on North Atlantic Right Whale Recovery Actions. **Kate Swails**; Gouveia, D.
- 1000 SEUS Management Update. **Barb Zoodsma**, Ward, L.
- 1015 Fisheries and Oceans Canada (DFO) Update on North Atlantic Right Whale Management Activities. **Cathy Merriman**; Reeves, A.
- 1030 **SESSION DISCUSSION**
- 1045 **BREAK**
- 1115 A Hierarchical Bayesian, State-Space Model to Estimate North Atlantic Right Whale Abundance. **Richard M. Pace, III**
- 1130 Female North Atlantic Right Whales Have Shorter Lives than Males: So What, and Why? **Peter Corkeron**; Pace, R.M.
- 1145 The Effect of Entanglement Severity on Health, Reproduction and Survival in North Atlantic Right Whales (*Eubalaena glacialis*). **Amy Knowlton**; Clark, J.S.; Hamilton, P.K.; Kraus, S.D.; Pettis, H.M.; Rolland, R.M.; Schick, R.S.

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2016 Annual Meeting Agenda

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- 1200 Predicting Lethal Entanglements as a Consequence of Drag from Fishing Gear. **Julie van der Hoop**; Corkeron, P.; Henry, A.G.; Knowlton, A.R.; Moore, M.J.
- 1215 Co- Existing: Working with Present Science within the Commercial Lobster Fishery to Implement Thoughtful Solutions to Minimize the Frequency and Severity of Right Whale Entanglements. **John Haviland**
- 1230 Is the Vessel-Strike Problem Solved? **Julie van der Hoop**
- 1245 **SESSION DISCUSSION**
- 1300 **LUNCH**
- 1415 Where the Whales Are: Using Long-Term Passive Acoustic Monitoring to Understand the Movements of North Atlantic Right Whales. **Genevieve Davis**; Baumgartner, M.; Gurnee, J.; Van Parijs, S.
- 1430 Comparison of Real Time vs. Archival Acoustic Detection of North Atlantic Right Whales for a Moored Buoy System. **Julianne Gurnee**; Baumgartner, M.; Cole, T.; Corkeron, P.; Van Parijs, S.
- 1445 *Seasonal Variation in Right Whale Presence in Emerald and Roseway Basins Using Passive Acoustic Monitoring from Fixed and Mobile Platforms.* **Danielle Moore**; Davies, K.; Moors-Murphy, H.
- 1500 *Monitoring Changes in Right Whale Acoustic Presence and Habitat in Atlantic Canada Using Ocean Gliders.* **Hansen Johnson**; Davies, K.; Baumgartner, M.; Taggart, C.
- 1515 *Temporal Variation in Right Whale (*Eubalaena glacialis*) Population Indices and Vocalizations Measured Concurrently in Roseway Basin.* **Delphine Durette-Morin**; Davies, K.; Johnson, H.; Brown, M.; Moors-Murphy H.; Taggart, C.
- 1530 **SESSION DISCUSSION**
SPECIAL PRESENTATION
- 1545 **BREAK**
- 1615 The Evolution of NOAA Right Whale Aerial Surveys in Northeast US, 1997-2016. **Tim Cole**; Duley, P.; Henry, A.; Khan, C.; Miller, D.; Pace, R.
- 1630 Quantifying Right Whale Migration to the Southeastern U.S.: Application of a Mark-Recapture Model with Unobservable Whales. **Timothy Gowan**; Ortega-Ortiz, J.; Hamilton, P.; Knowlton, A.; Jackson, K.; George, R.C.; Taylor, C.; Naessig, P.; Schulte, D.

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2016 Annual Meeting Agenda

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- 1645 Predicted Distribution of Right Whales in Eastern Canadian Waters: Identifying Priority Areas to Enhance Monitoring. Gomez, C.; Lawson, J.; Kouwenberg, A; Moors-Murphy, H.; Buren, A.; Fuentes-Yaco, C.; Marotte, E.; **Angelia S.M. Vanderlaan**
- 1700 A Spatial Climatology of *Calanus* Species Biomass and New Potential Feeding Habitats on the Eastern Scotian Shelf and in the Gulf of St. Lawrence. **Stéphane Plourde**; Lesage, V.; Gosselin, J.F.; Johnson, C.; Brown, M.; Goldbogen, J.
- 1715 **SESSION DISCUSSION - Where Do We Go From Here?**

RECEPTION

03 NOVEMBER 2016

- 0800 **Breakfast available**
0800-0830 **Registration / Check-In**
- 0830 NARWC Business Meeting
Annual Report Card
The business meeting is open to **ALL attendees. Please join us!**
- 0915 BREAK
- 0930 The Marine Mammal Commission and North Atlantic Right Whales: Where Policy and Science Meet. **Jennafer Malek**
- 0945 Kaggle Competition: Computer Vision for Conservation. **Christin Khan**
- 1000 Sharing the Seas: Safe Boating for Sailors and Whales. **Robert Rocha**; DiMonti, A.; Pepe, M.
- 1015 Up-Call, Getting the Word Out. **Amelia Griffith; Hope Bowden**
- 1030 Session Discussion
- 1045 **BREAK**
STUDENT ROUNDTABLES
BREAK OUT MEETING TIME
- 1200 *Gamete Compatibility and Reproductive Success in the North Atlantic Right Whale. Leah Springate; Frasier, T.; Hamilton, P.; White, B.*
- 1215 Integrating Photogrammetry from Manned and Unmanned Aircraft to Monitor the Growth of North Atlantic Right Whales. Durban, J.; Fearnbach, H.; **Michael Moore**; Lynn, M.; Pettis, H.; Perryman, W.

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- 1230 Quantification of Hormones in Whale Blow: Groundtruthing This Novel Technique Using Well-Studied North Atlantic Right Whales. **Elizabeth Burgess**; Hunt, K.E.; Kraus, S.D.; Rolland, R.M.
- 1245 Untangling the Life of an Entangled North Atlantic Right Whale with Chemical Profiles of Baleen. **Nadine Lysiak**; Trumble, S.; Knowlton, A.; Moore, M.
- 1300 The Roles of Melanopsin and Melatonin in Right Whales: Photoreceptor Protection from Bright Light and the Possible Loss of Circadian Rhythms. **Jeffrey Fasick**; Samuels, C.; Algrain, H.; Robinson, P.
- 1315 **SESSION DISCUSSION**
- 1330 **LUNCH**
- 1430 The Early-Spring Occurrence of Mother/Calf Pairs in Cape Cod Bay: 1998 – 2016. **Christine Hudak**; Asmutis-Silvia, R.J.; Mayo, C.A.
- 1445 Adding Another Dimension to Right Whale Research: How 3D Data Can Enhance the Information Gathered from Necropsy Specimens. **Christin Murphy**; Daily, D.J.; Guarendi, A.N.; Marx, M.; Werth, A.J.; Lapsertitis, J.M.
- 1500 Are You My Mama? Evidence of A Calf Exchange Between Three North Atlantic Right Whale Mothers in the Southeast U.S. Calving Area. **Katharine Jackson**; Jakush, J.L.; Hamilton, P.K.; George, R.C.; Howe, K.R.; White, M.L.; Accardo, C.M.; Conger, L.A.
- 1515 Interannual Variations in *Calanus* Population Biomass Indices from the Gulf Of Maine to the Newfoundland Shelf. **Stéphane Plourde**; Johnson, C.; Pepin, P.; Hare, J.; Morse, R.; Runge, J.; Thompson, C.
- 1530 Right Whales and Flamingos: Foraging from a Different Angle. **David Laist**
- 1545 **SESSION DISCUSSION**
- 1600 **CONCLUDING REMARKS**

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