



North Atlantic Right Whale Consortium Annual Meeting 27-28 October 2020

27 OCTOBER 2020

1000AM **Keynote/Opening:** *Scott Kraus, NARWC Chair*

1015AM **Session 1: Species status and management update**

- **01.01.01:** **North Atlantic Right Whale Catalog Update, Recent Genetic Findings, and Whale Naming Results:** *Philip Hamilton*
- **01.01.02:** **Mortality update:** *Sarah Sharp*
- **01.01.03:** **Entanglement/injury update:** *Scott Landry, Heather Pettis, Allison Henry*
- **01.01.04:** **Fisheries and Oceans Canada: an update on research and monitoring GFDS activities for North Atlantic right whales:** *Angelia Vanderlaan*
- **01.01.05:** **Fisheries and Oceans Canada (DFO) update on North Atlantic right whale management measures:** *Adam Burns and Melissa Landry*
- **01.01.06:** **Transport Canada management update:** *Michelle Sanders*
- **01.01.07:** **US management update:** *Colleen Coogan*
- **01.01.08:** **Unusual Mortality Event:** *Deborah Fauquier*

1115AM **Break**

1130AM **Session 2: Anthropogenic Events and Mitigation**

- **01.02.01:** **Ropeless Consortium Meeting Summary:** *Sean Brilliant*
- **01.02.02:** **Simulated performance of lobster fishing gear under different gear configurations:** *Amy Knowlton*
- **01.02.03:** **Co-existing in the Gulf of St. Lawrence: an integrated approach with crabbers, for whales:** *Lyne Morissette*
- **01.02.04:** **In the path of North Atlantic right whales: Perspectives of an offshore wind developer:** *Laura Morse*
- **01.02.05:** **Automatic whale detection from vessels for real-time ship-strike mitigation – current developments and applicability:** *Daniel Zitterbart*
- **01.02.06:** **Protected species observer (PSO) detections of NARW; significant events for the greater good:** *Craig Reiser*
- **01.02.07:** **Multi-agency emergency intervention to an injured North Atlantic right whale (*Eubalaena glacialis*) calf:** *Hendrik Nollens*

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*Time listed are EDT

- **01.02.08:** Effectiveness of speed restrictions to protect North Atlantic right whales from ship strikes within Charleston South Carolina and Savannah Georgia Seasonal Management Areas: *Jon Lang*

1230PM Lunch

100PM Session 3: Demographics

- **01.03.01:** Incorporating recovery into mark-recapture: another approach to the estimation of abundance and demographic parameters: *Joshua Reed*
- **01.03.02:** Estimation of North Atlantic right whale reproductive dynamics while accounting for uncertainty in female reproductive states: *Nathan Crum*
- **01.03.03:** Estimating the population size of the North Atlantic right whale: *Vitor Dos Anjos*
- **01.03.04:** North Atlantic right whale monitoring and surveillance: report and recommendations of the National Marine Fisheries Service's Expert Working Group: *Paul Wade*

145PM Break

200PM Session 4: Distribution

- **01.04.01:** Stable isotope analysis of baleen from North Atlantic right whale (*Eubalaena glacialis*) reflects distribution shift to the Gulf of St. Lawrence: *Rachel Forbes*
- **01.04.02:** Oceanographic processes impact Gulf of Maine foraging ecology and trigger abrupt right whale distribution shift: *Erin Meyer-Gutbrod*
- **01.04.03:** Large changes in right whale density in U.S. waters between 2003-2009 and 2010-2018: *Jason Roberts*
- **01.04.04:** In plane sight: a mark-recapture analysis of North Atlantic right whales in the Gulf of St. Lawrence: *Leah Crowe*
- **01.04.05:** North Atlantic right whales in the New York Bight update: comprehensive findings from monthly aerial surveys Over three years: *Ann Zoidis*
- **01.04.06:** Projecting regions of North Atlantic right whale (*Eubalaena glacialis*) habitat suitability in the Gulf of Maine in 2050: *Camille Ross*

300PM Break

315PM Breakout Sessions (TBD)

400PM Breakout Sessions (TBD)

445PM Day 1 End activities

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1000AM Session 1: Acoustics and Acoustic Detections

- **02.01.01:** Listening for North Atlantic right whales in Nantucket Shoals from 2018 – 2020: *Nicole Pegg*

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- **02.01.02:** Characterizing North Atlantic right whale upcalls and ambient noise levels in eastern Canadian waters: *Clair Evers*
- **02.01.03:** Optimizing real-time passive acoustic monitoring from gliders to trigger fishery and shipping dynamic management restrictions that protect North Atlantic right whales: *Delphine Durette-Morin*
- **02.01.04:** Evidence of song production by North Atlantic right whales: *Hansen Johnson*
- **02.01.05:** Near real-time passive acoustic monitoring for right whales on the U.S. east coast – an update: *Mark Baumgartner*
- **02.01.06:** Quantitative comparison of visual and acoustic surveys for the detection and dynamic management of North Atlantic right whales: *Valentina Ceballos*

1100AM Break

1115AM Session 2: Physiology and Feeding Ecology

- **02.02.01:** North Atlantic right whale melanopsin pigment and pupil light response: *Jeffry Fasick*
- **02.02.02:** North Atlantic right whale bioenergetics reviewed and modelled in the context of changing nutrition and entanglement stress: *Jasmin Hütt*
- **02.02.03:** Understanding the cumulative impacts of multiple stressors on North Atlantic right whales: Introducing the PCOMS Working Group: *Robert Schick*
- **02.02.04:** Variations in North Atlantic right whale food (*Calanus* spp.) in the southern Gulf of St. Lawrence: *Kevin Sorochan*
- **02.02.05:** Variation in the late summer abundance and nutritional value of stage V *Calanus finmarchicus* in the Bay of Fundy from 2006-2019: implications for North Atlantic right whales and other copepod predators: *Kristina Guarino*
- **02.02.06:** Ocean circulation shapes early summer North Atlantic right whale preyscape in the southern Gulf of St. Lawrence: a biophysical *Calanus* model comparison of Cool vs Warm years: *Catherine Brennan*

1215PM Lunch

1245PM Session 3: Education/Outreach and New technologies

- **02.03.01:** *Entangled*: *David Abel*
 - *A special link to this film will be made available to registered participants on 10/27 from 6-10pm EDT.*
- **02.03.02:** *The Urban Whale - a documentary impact campaign*: *Nadine Pequenezza and Joanne Jackson*
- **02.03.03:** New methodology for using a remotely piloted aircraft system to measure body temperature of large whales, especially North Atlantic right whales: *Gina Lonati*
- **02.03.04:** Ship Speed Watch: a new tool to monitor and analyze vessel traffic: *Gilbert Brogan*
- **02.03.05:** Right Whale AI: *Christin Khan*
- **02.03.06:** Automated detection and identification of right whales in the Gulf of St. Lawrence: *Olivia Pisano*

145PM Break

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200PM **Breakout Sessions (TBD)**
 Film Discussion

245PM **Breakout Sessions (TBD)**
 Student/Researcher roundtable

330PM **Meeting wrap up/End**

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