Atlantic Marine Assessment Program for Protected Species: 2015-2019

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Atlantic Marine Assessment Program for Protected Species: 2015 - 2019

[month / year]

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Palka, Chavez-Rosales, Josephson, Cholewiak, Haas, Garrison, Sigourney, Jech, Broughton, Soldevilla, Davis, DeAngelis, Sasso, Winton, Smolowitz, Fay, LaBrecque, Leiness, Dettloff, Orphanides

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DISCLAIMER

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# List of Abbreviations and Acronyms

|  |  |
| --- | --- |
| BOEM | Bureau of Ocean Energy Management |
| CSE | Council of Science Editors |
| DOI | US Department of the Interior |
| ESP | Environmental Studies Program |
| ESPIS | Environmental Studies Program Information System |

# Heading 1 Style

Do not modify the style definitions in this template. Add a new style only if absolutely necessary.

## Heading 2 Style

This is the Normal style. Heading styles in this template are all followed by the Normal style in the next paragraph. Spacing between headings and paragraphs is already set. Heading styles are kept together with the following paragraphs to prevent awkward page breaks.

### Heading 3 Style

See a sample table in **Table 1**. Use the Table Title style to automatically include the table title in the List of Tables. Table Column Head style is formatted for the column headers, and table text styles come in two sizes: Table Text (10 pt) and Table Text Smaller (9 pt).

Table 1. Sample table

| Column header 1 | Column header 2 | Column header 3 | Column header 4 |
| --- | --- | --- | --- |
| Row 1 |  |  |  |
| Row 2 |  |  |  |
| Row 3 |  |  |  |

#### Heading 4 Style

Use Headings 1–6 for the main body of the report. Headings 1–3 are listed in the Contents.

Use Headings 7–9 for the appendix or appendices. Heading 7 is listed in the Contents. Headings 8 and 9 may be used if needed.

##### Heading 5 Style

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* List paragraph style automatically selected for bullets and ordered lists
* List paragraph style automatically selected for bullets and ordered lists

###### Heading 6 Style

**Figure 1** included below. Figure Caption style is automatically included in the List of Figures. Figure Notes style is provided for additional information.

Figure 1. Katrina iris

A hybrid of bog-tolerant African irises Dietes vegeta and Dietes bicolor, the Katrina Iris was developed in New Orleans just after Hurricane Katrina. Sale proceeds benefit wetland restoration.

# Synthesis and Summary

Ddd

# Introduction

Dd

# Organization of Report

Dd

# Density and Abundance Research using Line Transect Data

## Introduction

## Methods

## Results

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# Passive Acoustic Research

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# Marine Turtle Research

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# Seabird Research

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## Introduction

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## Results

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# Data Databases and Outreach

Dd

# References

[Note: Use an author-date system for references. The examples below are in the recommended *Scientific Style and Format: The CSE Manual for Authors, Editors, and Publishers 8th Edition* (CSE 2014) format. For an online list of citation format examples in this format, see the Scientific Style and Format Citation Quick Guide (CSE c2014).]

[CSE] Council of Science Editors. 2014. Scientific style and format: the CSE manual for authors, editors, and publishers. 8th ed. Chicago (IL): University of Chicago Press. 722 p.

CSE. c2014. Scientific style and format citation quick guide. Chicago (IL): University of Chicago Press. [accessed 2017 May 15]. <http://www.scientificstyleandformat.org/Tools/SSF-Citation-Quick-Guide.html>.

Appendix A: Heading 7 Style

* 1. Heading 8 Style

Normal style

* + 1. Heading 9 Style

Normal style

Appendix B: Sample Table in Landscape Orientation

Table B-1. Sample table in landscape orientation with data in columns aligned on the decimal.

| Station | chl c2 | Pheo-phorbide | peridinin+isomer | Pyropheo-phorbide | 19-but fuxocantin | fuxocanthin | prasinoxanthin | 19-hex fuxocanthin | zeaxanthin | chl b | chl a | Pheo-phytin |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 | mg/m2 |
| 23 | 0.16 | 2.36 | 0.45 | 11.77 | 0.07 | 3.80 | 0.13 | 0.00 | 0.05 | 0.23 | 4.44 | 0.19 |
| 24 | 0.11 | 1.30 | 0.23 | 1.38 | 0.01 | 2.39 | 0.00 | 0.00 | 0.01 | 0.13 | 2.37 | 0.00 |
| 25 | 0.23 | 14.77 | 1.27 | 33.18 | 0.72 | 3.53 | 0.10 | 0.02 | 0.05 | 0.89 | 5.63 | 0.00 |

1. Appendix X. List of papers and talks resulting from work during 2015 – 2019.
   1. REFEREED/TECHNICAL PAPERS (AMAPPS authors in bold):
2. Batta-Lona PG, Maas A, O'Neill R, Wiebe PH, Bucklin A. 2016. Transcriptomic profiles of spring and summer populations of the Southern Ocean salp, *Salpa thompsoni*, in the Western Antarctic Peninsula region. [Polar Biol. 40: 1261-1276](about:blank).
3. **Cholewiak D**, **DeAngelis AI**, **Palka D**, Corkeron P, **Van Parijs SM** 2017.Beaked whales demonstrate a marked acoustic response to the use of shipboard echosounders. [Royal Society Open Science: 170940](http://dx.doi.org/10.1098/rsos.170940).
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6. **Garrison LP**. 2016. Abundance of marine mammals in waters of the U.S. East Coast during summer 2011. Southeast Fisheries Science Center, Protected Resources and Biodiversity Division, 75 Virginia Beach Dr., Miami, FL 33140. PRBD Contribution # PRBD-2016-08, 21 pp.
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8. **Garrison LP**, Rosel PE. 2017. Partitioning short-finned and long-finned pilot whale bycatch estimates using habitat and genetic information. Southeast Fisheries Science Center, Protected Resources and Biodiversity Division, 75 Virginia Beach Dr., Miami, FL 33140. PRBD Contribution # PRBD-2016-17, 24 pp.
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10. Jue N, Batta-Lona PG, Trusiak S, Obergfell C, Bucklin A, O’Neill MJ, O’Neill RJ. 2016. Rapid evolutionary rates and unique genomic signatures discovered in the first reference genome for the Southern Ocean salp, *Salpa thompsoni* (Urochordata, Thaliacea). [Genome Biol. Evol. 8: 3171-3186](https://academic.oup.com/gbe/article/8/10/3171/2939547).
11. **LaBrecque E**. 2016. Spatial Relationships among Hydroacoustic, Hydrographic and Top Predator Patterns: Cetacean Distributions in the Mid-Atlantic Bight. PhD thesis. Duke University, Durham, NC.
12. **NEFSC and SEFSC (Northeast Fisheries Science Center and Southeast Fisheries Science Center)**. 2011-2017. Annual reports of work conducted under AMAPPS for each year 2010 - 2017. [Available online](https://www.nefsc.noaa.gov/psb/AMAPPS/).
13. **NEFSC (Northeast Fisheries Science Center)**. 2010 – 2017. Hydrographic conditions of the Northeast continental shelf summaries for each year 2010 - 2017. [Available online](https://www.nefsc.noaa.gov/HydroAtlas/).
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17. Richardson DE, Marancik KE, Guyon JR, Lutcavage ME, Galuardi B, Lam CH, **Walsh HJ**, Wildes S, Yates DA, and Hare JA. 2016a. Discovery of a spawning ground reveals diverse migration strategies in Atlantic bluefin tuna (*Thunnus thynnus*). [PNAS 113(12): 3299-3304](http://www.pnas.org/content/113/12/3299.short).
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23. Winship AJ, Kinlan BP, White TP, Leirness JB, Christensen J. 2018. Modeling at-sea density of marine birds to support Atlantic marine renewable energy planning: Final report. U.S. Department of the Interior, Bureau of Ocean Energy Management, Office of Renewable Energy Programs, Sterling, VA. [OCS Study BOEM 2018-010](https://coastalscience.noaa.gov/data_reports/modeling-at-sea-density-of-marine-birds-to-support-atlantic-marine-renewable-energy-planning-final-report/). x+67 pp.
24. **Winton MV**, Fay G, **Haas HL**, Arendt M, Barco S, James M, **Sasso C**, Smolowitz R. 2018. Estimating the distribution and relative density of tagged loggerhead sea turtles in the western North Atlantic from satellite telemetry data using geostatistical mixed effects models. [Mar Ecol Prog Ser 586: 217-232](https://doi.org/10.3354/meps12396).
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28. Virgili A, Authier M, Boisseau O, Canadas A, Claridge D, Cole T, Corkeron P, Doremus G, David L, DiMeglio N, Dunn C, Dunn TE, Garcia Baron I, Laran S, Lewis M, Louzao M, Mannocci L, Martinez-Dedeira J, **Palka D**, Panigada S, Pettex E, Roberts J, Ruiz Sancho L, Santos MB, VanCannery O, Vazquez Bonales JA, Monestiez P, Ridoux V. *Accepted.* Combining datasets into a basin wide approach to model habitats of deep divers. Submitted to Journal Global Ecology and Biogeography.
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32. **Cholewiak D**, Cerchio S, Steele D, Baker S. Visual and acoustic identification of True’s beaked whales (*Mesoplodon mirus*) confirmed by eDNA barcoding.
33. **Garrison L** et al. Abundance of cetaceans along the northeastern U.S. coast from 2016 aerial and vessel based visual line transect surveys.
34. **LaBrecque E**, Hench J, **Jech JM**, Lawson G, Halpin P. Patterns and spatial scales of biological scattering in the Mid-Atlantic Bight shelf break region.
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41. **Sigourney D, Cholewiak D, Palka D**. Integrating passive acoustic data with visual line transect surveys to refine population estimates and estimate availability bias for sperm whales (*Physeter macrocephalus*).
42. Yack T, **Cholewiak D**, and others. Geographic variation in echolocation clicks of six odontocete species.
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45. **Chavez-Rosales S**. 2017. Atlantic Marine Assessment Program for Protected Species. Presentation at “Oceanos :WHOI en Español e Português"; Woods Hole, MA; September 2017.
46. **Chavez-Rosales S,** **Sigourney D.** 2017. Habitat Density Models for Cetaceans in the Atlantic: A Brief Overview of the AMAPPS Modeling Efforts. Presentation at the Density Modeling (DenMod) workshop; Halifax, Nova Scotia; October 2017.
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60. Richardson D, Marancik K, Hernandez C, **Broughton E**, Walsh H. 2018. Atlantic Tuna spawning off the Northeast US. 2018. Presentation at the summer meeting of the Southern NE Chapter of the American Fisheries Society; 28 June 2018.
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66. **Winton M**, Fay G, **Haas H**, Arendt M, Barco S, James M, **Sasso C**, Smolowitz R. 2017. Estimating loggerhead sea turtle densities from satellite telemetry data using geostatistical mixed models. Presentation at the Southern New England Chapter of the American Fisheries Society.
67. Yang T, **Haas HL**, Smolowitz R, Patel S, James M, Williard A. 2016. Baseline blood biochemical values for the Northwest Atlantic population of loggerhead sea turtles. Poster at the International Sea Turtle Symposium.
68. Yang T, **Haas HL**, Smolowitz RJ, Patel SH, James MC, Williard A. 2018. Blood biochemistry and hematological reference intervals for migrating loggerhead turtles (*Caretta caretta*) in the Northwest Atlantic. Presentation at the Southeast Regional Sea Turtle Meeting; Myrtle Beach, South Carolina.
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