Appendix A

Description of individual survey datasets analyzed
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Dataset
AMAPPS_FWS_Aerial_Fall2012

Dates
September – October 2012

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
2986

Total survey area analyzed
4765 km²

Description
U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Tim Jones, USFWS Nelson Lab
**Dataset**

AMAPPS_FWS_Aerial_Fall2013

**Dates**

September 2013

**Platform**

Aerial

**Survey protocol**

400-m strip transect (200 m on either side of the trackline), continuous data recording

**Number of transect segments analyzed**

4629

**Total survey area analyzed**

7395 km²

**Description**

U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

**Contact**

Tim Jones, USFWS Nelson Lab
Dataset

AMAPPS_FWS_Aerial_Fall2014

Dates

October 2014

Platform

Aerial

Survey protocol

400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed

2876

Total survey area analyzed

4608 km²

Description

U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact

Tim Jones, USFWS Nelson Lab
Dataset
AMAPPS_FWS_Aerial_Preliminary_Summer2010

Dates
August 2010

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
1131

Total survey area analyzed
1802 km²

Description
U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Tim Jones, USFWS Nelson Lab
**Dataset**

AMAPPS_FWS_Aerial_Spring2012

**Dates**

March 2012

**Platform**

Aerial

**Survey protocol**

400-m strip transect (200 m on either side of the trackline), continuous data recording

**Number of transect segments analyzed**

2962

**Total survey area analyzed**

4739 km²

**Description**

U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

**Contact**

Tim Jones, USFWS Nelson Lab
Dataset
AMAPPS_FWS_Summer2011

Dates
July – August 2011

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
3442

Total survey area analyzed
5502 km²

Description
U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Tim Jones, USFWS Nelson Lab
Dataset
AMAPPS_FWS_Aerial_Winter2010-2011

Dates
December 2010 – January 2011

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
513

Total survey area analyzed
823 km$^2$

Description
U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Tim Jones, USFWS Nelson Lab
Dataset
AMAPPS_FWS_Aerial_Winter2014

Dates
January – February 2014

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
3073

Total survey area analyzed
4914 km²

Description
U.S. Fish and Wildlife Service (USFWS) aerial survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Tim Jones, USFWS Nelson Lab
Dataset

AMAPPS_NOAA/NMFS_NEFSCBoat2011

Dates

June – July 2011

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1537

Total survey area analyzed

1794 km²

Description

NOAA Northeast Fisheries Science Center (NEFSC) shipboard survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact

Mike Simpkins, NOAA NEFSC
Dataset

AMAPPS_NOAA/NMFS_NEFSCBoat2013

Dates

July – August 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1577

Total survey area analyzed

1853 km²

Description

NOAA Northeast Fisheries Science Center (NEFSC) shipboard survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact

Mike Simpkins, NOAA NEFSC
Dataset

AMAPPS_NOAA/NMFS_NEFSCBoat2014

Dates

March – April 2014

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1023

Total survey area analyzed

1219 km²

Description

NOAA Northeast Fisheries Science Center (NEFSC) shipboard survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact

Elizabeth Josephson, NOAA NEFSC
Dataset
AMAPPS_NOAA/NMFS_NEFSCBoat2015

Dates
June 2015

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
261

Total survey area analyzed
308 km²

Description
NOAA Northeast Fisheries Science Center (NEFSC) shipboard survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Elizabeth Josephson, NOAA NEFSC
Dataset

AMAPPS_NOAA/NMFS_SEFSCBoat2011

Dates

June – July 2011

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

982

Total survey area analyzed

1155 km²

Description

NOAA Southeast Fisheries Science Center (SEFSC) shipboard survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact

Mike Simpkins, NOAA NEFSC
Dataset
AMAPPS_NOAA/NMFS_SEFSCBoat2013

Dates
July – September 2013

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
978

Total survey area analyzed
1149 km²

Description
NOAA Southeast Fisheries Science Center (SEFSC) shipboard survey component of the multi-agency Atlantic Marine Assessment Program for Marine Species (AMAPPS)

Contact
Mike Simpkins, NOAA NEFSC
Dataset

BarHarborWW05

Dates

June – October 2005

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1057

Total survey area analyzed

1265 km²

Description

Surveys conducted aboard the Bar Harbor Whale Watch vessel Friendship during transit around Mount Desert Island, Maine. Seabirds were surveyed using standardized techniques. Marine mammal surveys were also conducted. Distribution of survey effort possibly biased toward locations of whales.

Contact

Linda Welch, U.S. Fish and Wildlife Service Maine Coastal Islands National Wildlife Refuge
Dataset

BarHarborWW06

Dates

June – October 2006

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1152

Total survey area analyzed

1393 km²

Description

Surveys conducted aboard the Bar Harbor Whale Watch vessel Friendship during transit around Mount Desert Island, Maine; seabirds were surveyed using standardized techniques; marine mammal surveys were also conducted; distribution of survey effort possibly biased toward locations of whales

Contact

Linda Welch, U. S. Fish and Wildlife Service Maine Coastal Islands National Wildlife Refuge
Dataset
CapeHatteras0405

Dates
August 2004 – February 2005

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
363

Total survey area analyzed
374 km²

Description
Surveys of mammals, seabirds, and turtles off of Cape Hatteras, North Carolina

Contact
Erin LaBrecque, Duke University Nicholas School of the Environment and Earth Sciences
Dataset
CapeWindAerial*

Dates
March 2002 – February 2004

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
4676

Total survey area analyzed
7492 km²

Description
Aerial seabird surveys conducted to provide data for an environmental assessment of the proposed Cape Wind Project (offshore wind energy project on Horseshoe Shoal in Nantucket Sound, Massachusetts); high flight altitude may have limited the ability to detect smaller species

Contact
Terry Orr, ESS Group Inc.

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

CapeWindBoat*

Dates

April 2002 – September 2003

Platform

Boat

Survey protocol

1609-m strip transect (0.5 miles on either side of the trackline), continuous data recording

Number of transect segments analyzed

255

Total survey area analyzed

1644 km²

Description

Boat-based seabird surveys conducted to provide data for an environmental assessment of the proposed Cape Wind Project (offshore wind energy project on Horseshoe Shoal in Nantucket Sound, Massachusetts)

Contact

Terry Orr, ESS Group Inc.

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset
CDASMidAtlantic

Dates
December 2001 – March 2003

Platform
Aerial

Survey protocol
120-m strip transect (60 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
1604

Total survey area analyzed
766 km²

Description
Seabird surveys conducted by the U. S. Fish and Wildlife Service (USFWS) for the former Minerals Management Service in the mouth of the Chesapeake Bay, in Delaware Bay, and in waters to at least 12 nautical miles offshore between northern New Jersey and the Virginia/North Carolina border

Contact
Doug Forsell, USFWS Chesapeake Bay Field Office
Dataset
CSAP

Dates
April 1980 – October 1988

Platform
Boat

Survey protocol
300-m strip transect, binned data recording (discrete)

Number of transect segments analyzed
26125

Total survey area analyzed
33545 km²

Description
Cetacean and Seabird Assessment Program (CSAP) surveys of seabirds, marine mammals, and sea turtles conducted by the Manomet Bird Observatory for the NOAA Northeast Fisheries Science Center

Contact
Stephanie Schmidt, Manomet Center for Conservation Sciences
Dataset

DOEBRIAerial2012*

Dates

March – December 2012

Platform

Aerial hi-resolution digital video

Survey protocol

200-m strip transect, continuous data recording

Number of transect segments analyzed

4596

Total survey area analyzed

3669 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIAerial2013*

Dates

February – December 2013

Platform

Aerial hi-resolution digital video

Survey protocol

200-m strip transect, continuous data recording

Number of transect segments analyzed

5300

Total survey area analyzed

4250 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIAerial2014*

Dates

January – May 2014

Platform

Aerial hi-resolution digital video

Survey protocol

200-m strip transect, continuous data recording

Number of transect segments analyzed

2370

Total survey area analyzed

1896 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
**Dataset**

DOEBRIBoatApr2014*

**Dates**

April 2014

**Platform**

Boat

**Survey protocol**

300-m strip transect, continuous data recording

**Number of transect segments analyzed**

164

**Total survey area analyzed**

195 km²

**Description**

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

**Contact**

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
**Dataset**

DOEBRIBoatApril2012*

**Dates**

April 2012

**Platform**

Boat

**Survey protocol**

300-m strip transect, continuous data recording

**Number of transect segments analyzed**

165

**Total survey area analyzed**

197 km²

**Description**

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

**Contact**

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
**Dataset**

DOEBRIBoatAug2012*

**Dates**

August 2012

**Platform**

Boat

**Survey protocol**

300-m strip transect, continuous data recording

**Number of transect segments analyzed**

164

**Total survey area analyzed**

197 km²

**Description**

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

**Contact**

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset
DOEBRIBoatAug2013*

Dates
July – August 2013

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
166

Total survey area analyzed
199 km²

Description
U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact
Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatDec2012*

Dates

December 2012 – January 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

162

Total survey area analyzed

194 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatDec2013*

Dates

December 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

170

Total survey area analyzed

202 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatJan2013*

Dates

January – February 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

164

Total survey area analyzed

198 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatJan2014*

Dates

January – February 2014

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

164

Total survey area analyzed

197 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatJune2012*

Dates

June 2012

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

166

Total survey area analyzed

200 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatJune2013*

Dates

June 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

168

Total survey area analyzed

200 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatMar2013*

Dates

March 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

166

Total survey area analyzed

201 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatMay2013*

Dates

May 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

168

Total survey area analyzed

201 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatNov2012*

Dates

November 2012

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

165

Total survey area analyzed

197 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatOct2013*

Dates

October 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

170

Total survey area analyzed

201 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatSep2012*

Dates

September 2012

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

168

Total survey area analyzed

201 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset

DOEBRIBoatSep2013*

Dates

September 2013

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

168

Total survey area analyzed

201 km²

Description

U.S. Department of Energy (DOE)/Biodiversity Research Institute (BRI) mid-Atlantic surveys to collect baseline data that can inform siting and permitting of future offshore wind energy development

Contact

Andrew Gilbert, BRI

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
Dataset
DominionVirginia_VOWTAP

Dates
May 2013 – April 2014

Platform
Boat

Survey protocol
600-m strip transect (300 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
78

Total survey area analyzed
250 km²

Description
Avian surveys conducted by Tetra Tech, Inc. (contracted by Dominion Resources, Inc.) in support of the Virginia Offshore Wind Technology Advancement Project (VOWTAP)

Contact
David Bigger, Bureau of Ocean Energy Management
Dataset
EcoMonAug08

Dates
August 2008

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
480

Total survey area analyzed
575 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact
Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonAug09

Dates

August 2009

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

458

Total survey area analyzed

547 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonAug10

Dates

August – September 2010

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

492

Total survey area analyzed

588 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonAug2012

Dates

August 2012

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

656

Total survey area analyzed

782 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Holly Goyert, City University of New York College of Staten Island
Dataset
EcoMonFeb10

Dates
February 2010

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
334

Total survey area analyzed
398 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact
Richard Veit, City University of New York College of Staten Island
**Dataset**

EcoMonFeb2012

**Dates**

February 2012

**Platform**

Boat

**Survey protocol**

300-m strip transect, continuous data recording

**Number of transect segments analyzed**

549

**Total survey area analyzed**

661 km²

**Description**

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

**Contact**

Holly Goyert, City University of New York College of Staten Island
Dataset
EcoMonFeb2013

Dates
February 2013

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
521

Total survey area analyzed
620 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact
Holly Goyert, City University of New York College of Staten Island
Dataset
EcoMonJan09

Dates
January – February 2009

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
391

Total survey area analyzed
474 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact
Richard Veit, City University of New York College of Staten Island
Dataset
EcoMonJun2012

Dates
May – June 2012

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
544

Total survey area analyzed
651 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact
Holly Goyert, City University of New York College of Staten Island
Dataset

EcoMonMay07

Dates

May – June 2007

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

505

Total survey area analyzed

606 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonMay09

Dates

May – June 2009

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

621

Total survey area analyzed

746 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonMay10

Dates

May – June 2010

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

644

Total survey area analyzed

770 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonNov09

Dates

November 2009

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

441

Total survey area analyzed

528 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonNov10

Dates

November 2010

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

418

Total survey area analyzed

500 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Richard Veit, City University of New York College of Staten Island
Dataset

EcoMonNov2011

Dates

October – November 2011

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

454

Total survey area analyzed

542 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Holly Goyert, City University of New York College of Staten Island
Dataset

EcoMonOct2012

Dates

October – November 2012

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

498

Total survey area analyzed

598 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research vessels on Ecosystem Monitoring (EcoMon) cruises

Contact

Holly Goyert, City University of New York College of Staten Island
Dataset

ECSAS

Dates

March 2006 – October 2016

Platform

Boat

Survey protocol

300-m strip transect, binned data recording (discrete)

Number of transect segments analyzed

13016

Total survey area analyzed

6727 km²

Description

Eastern Canada Seabirds at Sea (ECSAS) surveys conducted aboard ships of opportunity by the Canadian Wildlife Service, Environment and Climate Change Canada

Contact

Carina Gjerdrum, Canadian Wildlife Service, Environment and Climate Change Canada
**Dataset**

FLPowerLongIsland_Aerial

**Dates**

October 2004 – March 2006

**Platform**

Aerial

**Survey protocol**

400-m strip transect, continuous data recording

**Number of transect segments analyzed**

311

**Total survey area analyzed**

466 km²

**Description**

Avian surveys conducted by Western Ecosystems Technology, Inc. in the general Long Island Offshore Wind Park project area (FPL Energy)

**Contact**

David Bigger, Bureau of Ocean Energy Management
Dataset

Dataset

FLPowerLongIsland_Boat

Dates

April 2004 – June 2006

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1213

Total survey area analyzed

1374 km²

Description

Avian surveys conducted by Western Ecosystems Technology, Inc. in the general Long Island Offshore Wind Park project area (FPL Energy)

Contact

David Bigger, Bureau of Ocean Energy Management
Dataset
FWS_MidAtlanticDetection_Spring2012

Dates
March 2012

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
177

Total survey area analyzed
283 km²

Description
U.S. Fish and Wildlife Service (USFWS) aerial surveys to monitor the abundance and distribution of marine bird populations along the Atlantic and Gulf coasts with an emphasis on sea ducks

Contact
Jeffery Leirness, USFWS
Dataset

FWS_SouthernBLSC_Winter2012

Dates

February 2012

Platform

Aerial

Survey protocol

400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed

904

Total survey area analyzed

1500 km²

Description

U.S. Fish and Wildlife Service (USFWS) aerial surveys to monitor the abundance and distribution of marine bird populations along the Atlantic and Gulf coasts with an emphasis on sea ducks

Contact

Jeffery Leirness, USFWS
Dataset
FWSAtlanticWinterSeaduck2008

Dates
February 2008 – February 2011

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
8389

Total survey area analyzed
13419 km²

Description
U.S. Fish and Wildlife Service (USFWS) aerial surveys to monitor the abundance and distribution of marine bird populations along the Atlantic and Gulf coasts with an emphasis on sea ducks

Contact
Emily Silverman, USFWS Merriam Lab
Dataset

GeorgiaPelagic

Dates

November 1982 – June 1985

Platform

Boat

Survey protocol

300-m strip transect, binned data recording (discrete)

Number of transect segments analyzed

2186

Total survey area analyzed

2569 km²

Description

Pelagic seabird (and marine mammal) surveys

Contact

J. Christopher Haney, Defenders of Wildlife
Dataset
HatterasEddyCruise2004

Dates
August 2004

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
131

Total survey area analyzed
117 km²

Description
Seabird (and marine mammal) survey conducted by the Duke University-University of North Carolina Oceanographic Consortium focusing on the shelf slope and cold-core eddies forming along the inner edge of the Gulf Stream off North Carolina

Contact
K. David Hyrenbach, Duke University Nicholas School of the Environment
Dataset

HerringAcoustic06

Dates

September 2006

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

287

Total survey area analyzed

341 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact

Richard Veit, City University of New York College of Staten Island
Dataset
HerringAcoustic07

Dates
October 2007

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
334

Total survey area analyzed
395 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact
Richard Veit, City University of New York College of Staten Island
Dataset

HerringAcoustic08

Dates

September – October 2008

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

822

Total survey area analyzed

990 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact

Richard Veit, City University of New York College of Staten Island
Dataset
HerringAcoustic09Leg1

Dates
September 2009

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
127

Total survey area analyzed
151 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact
Richard Veit, City University of New York College of Staten Island
Dataset

HerringAcoustic09Leg2

Dates

September – October 2009

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

289

Total survey area analyzed

341 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact

Richard Veit, City University of New York College of Staten Island
Dataset
HerringAcoustic09Leg3

Dates
October 2009

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
263

Total survey area analyzed
315 km²

Description
Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact
Richard Veit, City University of New York College of Staten Island
Dataset

HerringAcoustic2010

Dates

September – October 2010

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

555

Total survey area analyzed

670 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact

Holly Goyert, City University of New York College of Staten Island
Dataset

HerringAcoustic2011

Dates

September – October 2011

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

808

Total survey area analyzed

950 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact

Holly Goyert, City University of New York College of Staten Island
Dataset

HerringAcoustic2012

Dates

September – October 2012

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

772

Total survey area analyzed

917 km²

Description

Seabird (and marine mammal) surveys conducted aboard NOAA research cruises that were part of NOAA Acoustic Herring surveys in the Gulf of Maine

Contact

Timothy White, Bureau of Ocean Energy Management
Dataset
MassAudNanAerial

Dates
August 2002 – March 2006

Platform
Aerial

Survey protocol
183-m strip transect (91.5 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
5226

Total survey area analyzed
3814 km²

Description
Seabird surveys by Massachusetts Audubon in Nantucket Sound to assess potential effects of offshore wind energy development; flight altitude (500 feet) might have limited the ability to identify some species

Contact
Becky Harris or Simon Perkins, Massachusetts Audubon Society
Dataset

MassCEC2011-2012

Dates

January 2011 – November 2012

Platform

Aerial

Survey protocol

400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed

2511

Total survey area analyzed

4016 km²

Description

Avian surveys conducted in Bureau of Ocean Energy Management Wind Energy Area south of Nantucket and Martha’s Vineyard, Massachusetts

Contact

Timothy White, Bureau of Ocean Energy Management
Richard Veit, City University of New York College of Staten Island
Dataset

MassCEC2013

Dates

January – December 2013

Platform

Aerial

Survey protocol

400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed

2248

Total survey area analyzed

3596 km²

Description

Avian surveys conducted in Bureau of Ocean Energy Management Wind Energy Area south of Nantucket and Martha’s Vineyard, Massachusetts

Contact

Timothy White, Bureau of Ocean Energy Management
Richard Veit, City University of New York College of Staten Island
Dataset
MassCEC2014

Dates
January 2014 – January 2015

Platform
Aerial

Survey protocol
400-m strip transect (200 m on either side of the trackline), continuous data recording

Number of transect segments analyzed
1512

Total survey area analyzed
2421 km²

Description
Avian surveys conducted in Bureau of Ocean Energy Management Wind Energy Area south of Nantucket and Martha’s Vineyard, Massachusetts

Contact
Timothy White, Bureau of Ocean Energy Management
Richard Veit, City University of New York College of Staten Island
Dataset
NewEnglandSeamount06

Dates
May – June 2007

Platform
Boat

Survey protocol
300-m strip transect, binned data recording (discrete)

Number of transect segments analyzed
65

Total survey area analyzed
36 km²

Description
Seabird (and marine mammal) survey conducted for the Canadian Wildlife Service (CWS) of Environment and Climate Change Canada (EC) in the Sargasso Sea to and from the New England seamount chain

Contact
Carina Gjerdrum, EC-CWS
Dataset
NJDEP2009

Dates
January 2008 - December 2009

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
4971

Total survey area analyzed
5967 km²

Description
Surveys conducted by Geo-Marine, Inc. for the New Jersey Department of Environmental Protection (NJDEP) to collect baseline information on birds, turtles, and mammals in offshore waters of New Jersey

Contact
GeoMarine, Inc.
Dataset

NOAA/NMFS_NEFSCBoat2004

Dates

June – August 2004

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1207

Total survey area analyzed

1422 km²

Description

Survey conducted by NOAA Northeast Fisheries Science Center (NEFSC)

Contact

Elizabeth Josephson, NOAA NEFSC
Dataset
NOAA/NMFS_NEFSCBoat2007

Dates
August 2007

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
633

Total survey area analyzed
746 km²

Description
Survey conducted by NOAA Northeast Fisheries Science Center (NEFSC)

Contact
Elizabeth Josephson, NOAA NEFSC
Dataset

NOAAMBO7880

Dates

January 1978 – November 1979

Platform

Boat

Survey protocol

300-m strip transect, binned data recording (discrete)

Number of transect segments analyzed

6965

Total survey area analyzed

6417 km²

Description

Opportunistic seabird (and marine mammal) surveys conducted by Manomet Bird Observatory aboard a range of cruises (NOAA, U. S. Coast Guard, and foreign research)

Contact

Doug Forsell, U. S. Fish and Wildlife Service Chesapeake Bay Field Office
Dataset
PlattsBankAerial

Dates
July 2005

Platform
Aerial

Survey protocol
340-m strip transect (170 m on either side of the track line), continuous data recording

Number of transect segments analyzed
869

Total survey area analyzed
1178 km²

Description
Seabird (and other upper trophic level predator) aerial survey conducted in the Platts Bank area, Gulf of Maine

Contact
Nicholas Wolff, University of Southern Maine
Dataset

RISAMPAerial

Dates

December 2009 – August 2010

Platform

Aerial

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

2466

Total survey area analyzed

2953 km²

Description

Surveys to assess bird distributions within Rhode Island Ocean Special Area Management Plan (RISAMP) study area

Contact

Kristopher Winiarski, University of Massachusetts
Dataset
RISAMPBoat

Dates
July 2009 – August 2010

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
781

Total survey area analyzed
1022 km²

Description
Surveys to assess bird distributions within Rhode Island Ocean Special Area Management Plan (RISAMP) study area

Contact
Kristopher Winiarski, University of Massachusetts
Dataset
SEFSC1992

Dates
January – February 1992

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
783

Total survey area analyzed
938 km²

Description
Marine mammal survey (with seabird observations) conducted by NOAA Southeast Fisheries Science Center (SEFSC); seabirds were not the focus of the survey effort so some birds might have been missed

Contact
Lance Garrison, NOAA SEFSC
Dataset

SEFSC1998

Dates

July – August 1998

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

1365

Total survey area analyzed

1596 km²

Description

Marine mammal survey (with seabird observations) aboard NOAA Ship Relentless Cruise RS 98-01 (3) conducted by NOAA Southeast Fisheries Science Center (SEFSC); seabirds were not the focus of the survey effort so some birds might have been missed

Contact

Lance Garrison, NOAA SEFSC
Dataset
SEFSC1999

Dates
August – September 1999

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
1254

Total survey area analyzed
1475 km²

Description
Marine mammal survey (with seabird observations) conducted by NOAA Southeast Fisheries Science Center (SEFSC); seabirds were not the focus of the survey effort so some birds might have been missed

Contact
Lance Garrison, NOAA SEFSC
Dataset
StatoilMaine

Dates
May 2012 – October 2013

Platform
Boat

Survey protocol
300-m strip transect, continuous data recording

Number of transect segments analyzed
400

Total survey area analyzed
480 km²

Description
Avian surveys conducted by Tetra Tech, Inc. and Statoil in the Hywind Demonstration Project area (Maine)

Contact
David Bigger, Bureau of Ocean Energy Management
Dataset

WHOIJuly2010*

Dates

July 2010

Platform

Boat

Survey protocol

300-m strip transect, continuous data recording

Number of transect segments analyzed

86

Total survey area analyzed

102 km²

Description

Survey conducted aboard Woods Hole Oceanographic Institute cruise

Contact

Timothy White, Bureau of Ocean Energy Management
Richard Veit, City University of New York College of Staten Island

* Note: This dataset is not publicly available but was made available under a restricted usage agreement
**Dataset**

WHOISep2010*

**Dates**

September 2010

**Platform**

Boat

**Survey protocol**

300-m strip transect, continuous data recording

**Number of transect segments analyzed**

85

**Total survey area analyzed**

99 km²

**Description**

Survey conducted aboard Woods Hole Oceanographic Institute cruise

**Contact**

Timothy White, Bureau of Ocean Energy Management
Richard Veit, City University of New York College of Staten Island

* Note: This dataset is not publicly available but was made available under a restricted usage agreement