



Northeast Fisheries Science Center Reference Document 23-07

North Atlantic Right Whale Passive Acoustic Detections Report: January 2020 - June 2022

March 2023



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North Atlantic Right Whale Passive Acoustic Detections Report: January 2020 - June 2022

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US DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Northeast Fisheries Science Center
Woods Hole, Massachusetts

March 2023

Northeast Fisheries Science Center Reference Documents

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This document may be cited as:

Davis G, Van Parijs S. 2023. North Atlantic right whale passive acoustic detections report: January 2020 - June 2022. US Dept Commer, Northeast Fish Sci Cent Ref Doc. 23-07; 10 pp.

NOAA Northeast Fisheries Science Center

NARW Passive Acoustic Detections Report: January - June 2020

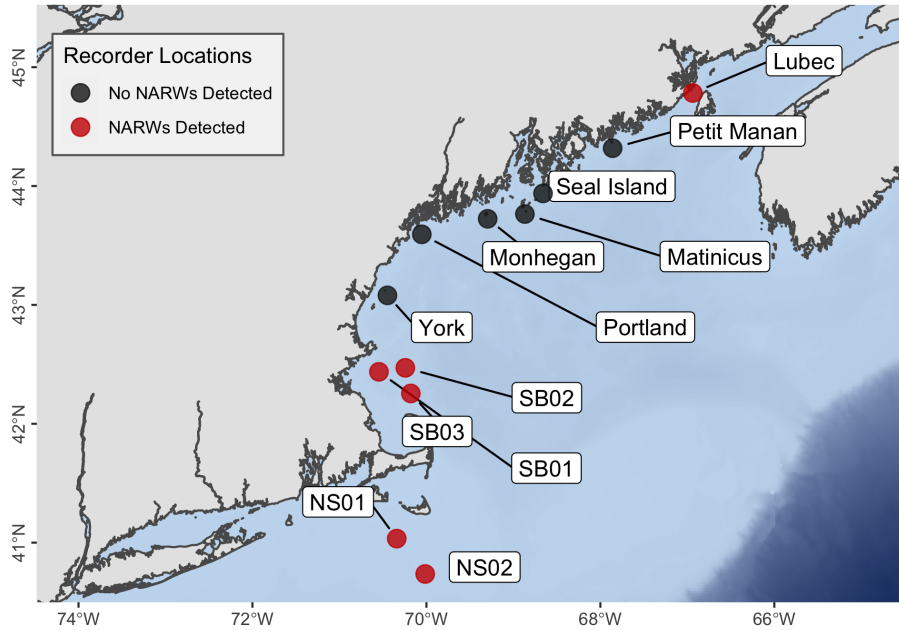


Figure 1: Map of acoustic recorder locations

Data from all recorders were processed with an automated detector, the LFDCS ¹. Potential detections of North Atlantic right whale (NARW) upcalls were manually verified. Right whales are considered present at a site if three true upcall detections are found in one day. These results indicate minimum right whale presence. A specific date range may contain few or no detections, this does not mean right whales were not present. Passive acoustic monitoring can only determine presence of vocally-active individuals calling within detection range of a recorder. Silent animals, or those calling beyond the range of the recorders, are not represented.

Table 1: Table summarizing number of days with NARW presence/number of total recording days for the given month. Recording dates represent the full deployment; the following analysis months are a subset of the full deployment.

Site	Recording Dates	01-2020	02-2020	03-2020	04-2020	05-2020	06-2020
Lubec	05/14/20 - 07/21/20	-/-	-/-	-/-	-/-	0/18	1/30
Matinicus	03/09/20 - 06/28/20	-/-	-/-	0/23	0/30	0/31	0/28

¹Baumgartner & Mussoline. 2011. "A generalized baleen whale call detection and classification system." *The Journal of the Acoustical Society of America* 129 (5): 2889–2902. <https://doi.org/10.1121/1.3562166>.

Site	Recording Dates	01-2020	02-2020	03-2020	04-2020	05-2020	06-2020
Monhegan	03/09/20 - 06/17/20	-/-	-/-	0/23	0/30	0/31	0/17
NS01	01/23/20 - 07/17/20	9/9	26/29	15/31	7/30	1/31	1/30
NS02	01/23/20 - 07/17/20	9/9	28/29	29/31	7/30	0/31	8/30
Petit Manan	03/12/20 - 06/29/20	-/-	-/-	0/20	0/30	0/31	0/29
Portland	06/18/20 - 08/05/20	-/-	-/-	-/-	-/-	-/-	0/13
SB01	12/06/19 - 08/14/20	2/31	5/29	17/31	16/30	0/31	0/30
SB02	12/06/19 - 08/14/20	15/31	5/29	11/31	12/30	0/31	0/30
SB03	12/06/19 - 08/14/20	2/4	21/29	29/31	19/30	0/31	0/30
Seal Island	03/09/20 - 06/27/20	-/-	-/-	0/23	0/8	-/-	-/-
York	06/18/20 - 06/19/20	-/-	-/-	-/-	-/-	-/-	0/2

For additional visual sightings and acoustic detection information, see the [Right Whale Sighting Advisory System](#) and the [Passive Acoustic Cetacean Map](#).

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Report last compiled on September 26, 2022

NOAA Northeast Fisheries Science Center

NARW Passive Acoustic Detections Report: July - December 2020

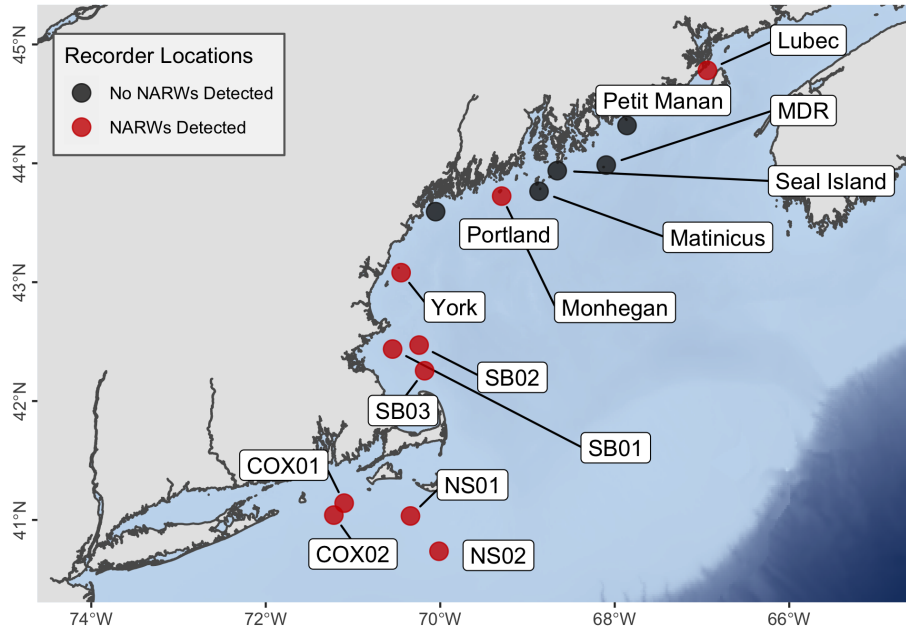


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Data from all recorders were processed with an automated detector, the LFDSCS ¹. Potential detections of North Atlantic right whale (NARW) upcalls were manually verified. Right whales are considered present at a site if three true upcall detections are found in one day. These results indicate minimum right whale presence. A specific date range may contain few or no detections, this does not mean right whales were not present. Passive acoustic monitoring can only determine presence of vocally-active individuals calling within detection range of a recorder. Silent animals, or those calling beyond the range of the recorders, are not represented.

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Site	Recording Dates	07-2020	08-2020	09-2020	10-2020	11-2020	12-2020
COX01	11/15/20 - 02/26/21	-/-	-/-	-/-	-/-	2/16	7/31
COX02	11/15/20 - 02/26/21	-/-	-/-	-/-	-/-	2/16	9/31

¹Baumgartner & Mussoline. 2011. "A generalized baleen whale call detection and classification system." *The Journal of the Acoustical Society of America* 129 (5): 2889–2902. <https://doi.org/10.1121/1.3562166>.

Site	Recording Dates	07-2020	08-2020	09-2020	10-2020	11-2020	12-2020
Lubec	05/14/20 - 03/17/21	0/21	0/18	0/30	1/31	0/30	0/31
Matinicus	07/07/20 - 02/05/21	0/25	0/31	0/30	0/31	0/30	0/31
MDR	10/28/20 - 02/09/21	-/-	-/-	-/-	0/4	0/30	0/31
Monhegan	07/07/20 - 02/01/21	0/25	0/31	0/30	0/31	0/30	1/31
NS01	03/28/20 - 03/04/21	1/31	2/31	0/30	2/31	13/30	23/31
NS02	03/28/20 - 03/01/21	1/31	0/31	5/30	4/31	13/30	30/31
Petit Manan	07/24/20 - 10/28/20	0/8	0/31	0/30	0/28	-/-	-/-
Portland	06/18/20 - 12/25/20	0/31	0/5	0/19	0/31	0/30	0/25
SB01	06/12/20 - 11/22/20	1/31	0/31	0/30	0/31	0/22	-/-
SB02	06/12/20 - 11/22/20	0/31	0/31	0/30	1/31	0/22	-/-
SB03	06/12/20 - 11/22/20	1/31	1/31	0/30	0/31	0/22	-/-
Seal Island	07/07/20 - 02/03/21	0/25	0/31	0/1	0/12	0/30	0/31
York	09/12/20 - 04/07/21	-/-	-/-	0/19	0/31	1/30	0/31

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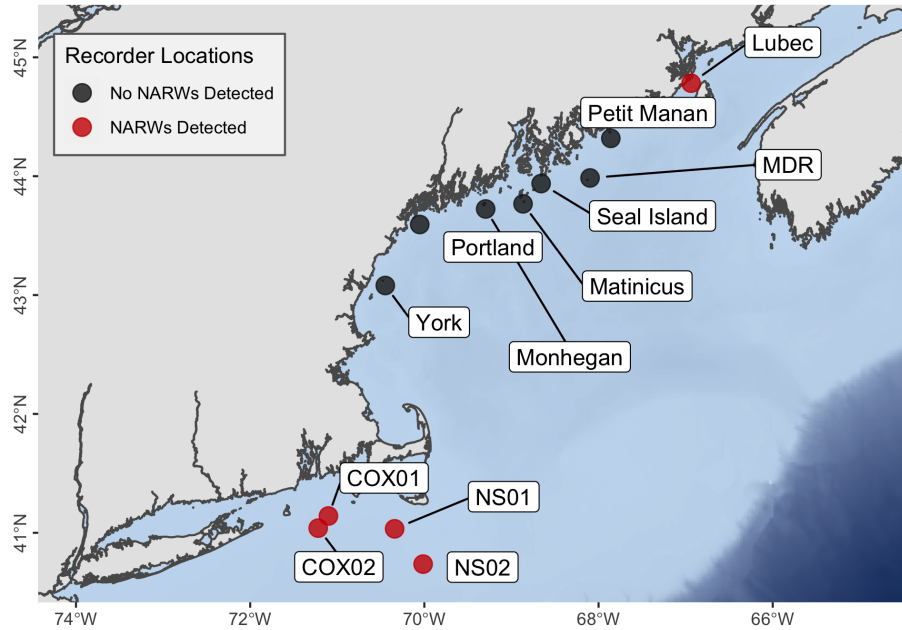


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COX01	11/15/20 - 07/16/21	7/31	16/28	7/31	2/30	0/31	1/30
COX02	11/15/20 - 06/27/21	7/31	16/28	5/31	0/30	0/31	0/26

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Site	Recording Dates	01-2021	02-2021	03-2021	04-2021	05-2021	06-2021
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Matinicus	10/20/20 - 08/27/21	0/31	0/28	0/31	0/30	0/31	0/30
MDR	10/28/20 - 08/26/21	0/31	0/28	0/31	0/30	0/31	0/30
Monhegan	10/20/20 - 08/27/21	0/31	0/25	0/31	0/30	0/31	0/30
NS01	11/07/20 - 07/21/21	28/31	28/28	12/19	6/30	0/31	0/30
NS02	11/07/20 - 07/21/21	18/31	12/26	3/23	14/30	1/30	2/30
Petit Manan	03/23/21 - 07/23/21	-/-	-/-	0/9	0/30	0/31	0/30
Portland	01/27/21 - 08/27/21	0/5	0/28	0/31	0/30	0/31	0/30
Seal Island	10/20/20 - 08/11/21	0/31	0/27	0/28	-/-	0/19	0/30
York	12/21/20 - 07/26/21	0/31	0/28	0/31	0/29	0/31	0/30

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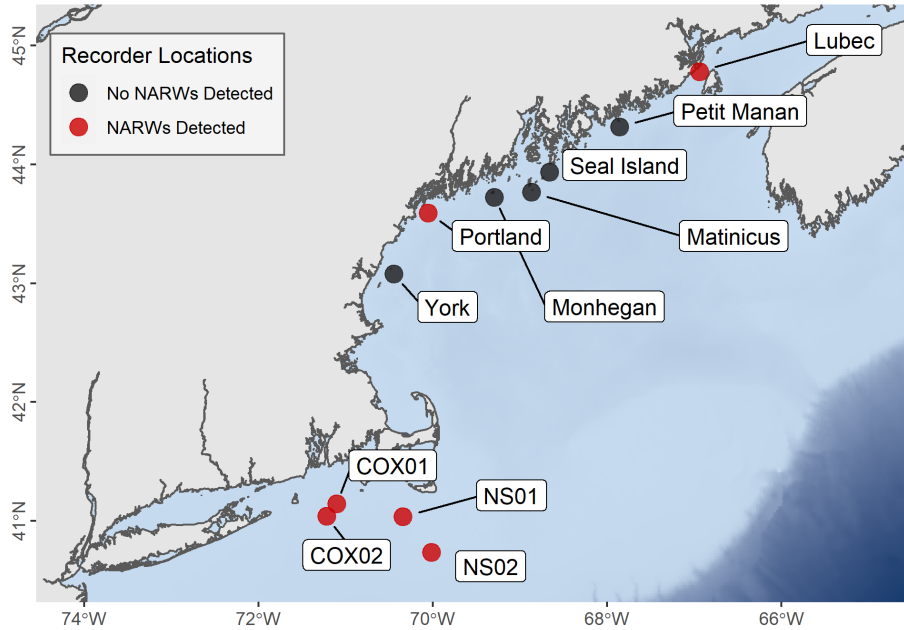


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COX01	02/26/21 - 02/22/22	1/31	0/31	0/30	0/31	0/30	2/31
COX02	07/16/21 - 02/22/22	0/16	0/31	0/30	0/31	1/30	3/31

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Matinicus	05/13/21 - 03/27/22	0/31	0/31	0/30	0/31	0/30	0/31
Monhegan	05/13/21 - 03/27/22	0/31	0/31	0/30	0/31	0/30	0/24
NS01	03/17/21 - 02/10/22	1/31	1/31	0/30	2/31	1/30	2/31
NS02	03/10/21 - 02/07/22	6/31	6/31	0/30	9/31	12/30	29/31
Petit Manan	05/20/21 - 04/13/22	0/31	0/31	0/30	0/31	0/30	0/10
Portland	05/07/21 - 12/20/21	0/31	0/25	0/30	0/31	0/30	4/20
Seal Island	05/13/21 - 08/11/21	0/31	0/11	-/-	-/-	-/-	-/-
York	04/08/21 - 07/26/21	0/26	-/-	-/-	-/-	-/-	-/-

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Report last compiled on December 19, 2022

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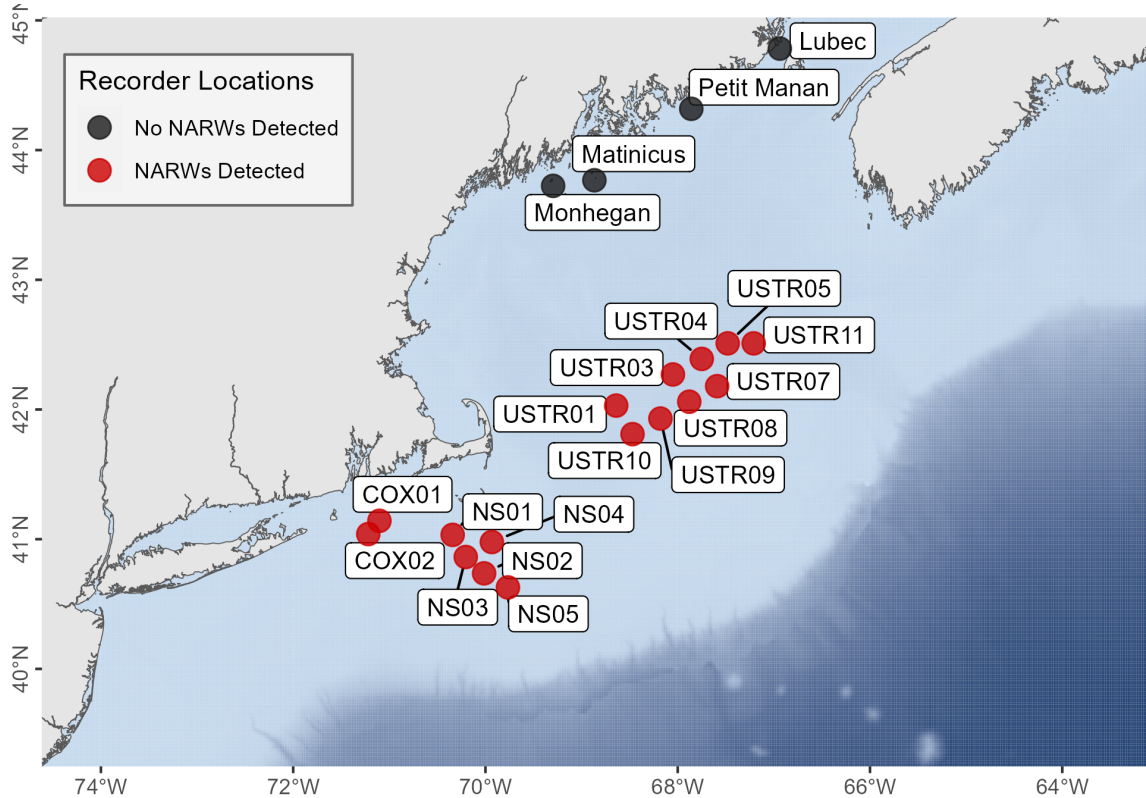


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COX02	11/05/21 - 11/03/22	18/31	18/28	17/31	3/30	0/31	2/30
Lubec	11/04/21 - 07/07/22	0/31	0/28	0/31	0/30	0/31	0/30
Matinicus	12/15/21 - 04/25/22	0/31	0/28	0/31	0/25	-/-	-/-
Monhegan	12/18/21 - 08/03/22	0/31	0/28	0/31	0/30	0/31	0/30
NS01	10/13/21 - 05/29/22	10/31	19/28	27/31	10/30	0/29	-/-
NS02	10/14/21 - 11/09/22	30/31	16/28	21/31	6/30	0/31	1/30
NS03	02/07/22 - 05/29/22	-/-	17/22	27/31	6/30	0/29	-/-
NS04	02/07/22 - 11/09/22	-/-	20/22	21/31	8/30	0/31	1/30
NS05	02/07/22 - 11/09/22	-/-	4/22	12/31	4/30	2/31	0/30
Petit Manan	12/31/21 - 09/07/22	0/31	0/28	0/31	0/30	0/31	0/30
USTR01	05/20/22 - 11/11/22	-/-	-/-	-/-	-/-	12/12	8/30
USTR03	05/19/22 - 11/16/22	-/-	-/-	-/-	-/-	8/13	6/30
USTR04	05/19/22 - 10/29/22	-/-	-/-	-/-	-/-	9/13	5/30
USTR05	05/19/22 - 11/11/22	-/-	-/-	-/-	-/-	2/13	8/30
USTR07	05/20/22 - 11/10/22	-/-	-/-	-/-	-/-	11/12	6/30
USTR08	05/20/22 - 11/09/22	-/-	-/-	-/-	-/-	9/12	5/30
USTR09	05/20/22 - 11/15/22	-/-	-/-	-/-	-/-	8/12	5/27
USTR10	05/20/22 - 11/11/22	-/-	-/-	-/-	-/-	7/12	4/30
USTR11	05/19/22 - 11/26/22	-/-	-/-	-/-	-/-	2/13	4/30

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