



Northeast Fisheries Science Center Reference Document 23-05

North Atlantic Right Whale Passive Acoustic Detections Report: January - June 2021

March 2023



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Northeast Fisheries Science Center Reference Documents

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NOAA Northeast Fisheries Science Center

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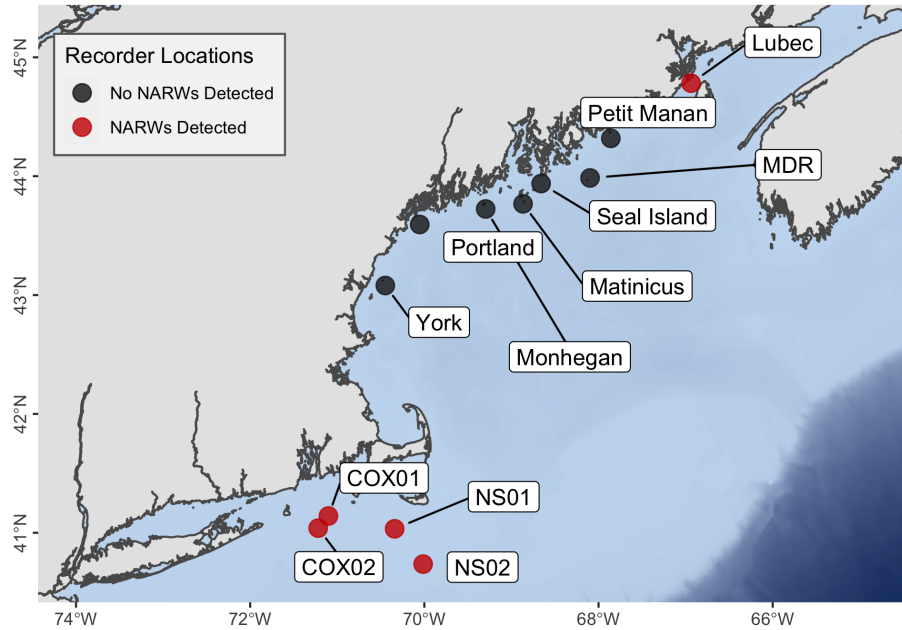


Figure 1: Map of acoustic recorder locations

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	01-2021	02-2021	03-2021	04-2021	05-2021	06-2021
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

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	01-2021	02-2021	03-2021	04-2021	05-2021	06-2021
Lubec	12/09/20 - 07/15/21	0/31	0/28	0/31	0/30	1/31	1/30
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

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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