

Sounds in the Ocean

How to Cite a Sound or Image

Copy the citation information for the appropriate sound, photo, or spectrogram image from this document. The citation should have the following format.

Sound/Image/Spectrogram Citation:

1. (Government Agency)
2. (Group/Organization)
3. (Lower Levels of Credit, if known)
4. (Collection/Publication Date)
5. (Title of Sound Category)
6. (Website URL)

Example:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Blue Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Mysticetes (Baleen Whales)

Blue Whale *Balaenoptera musculus*

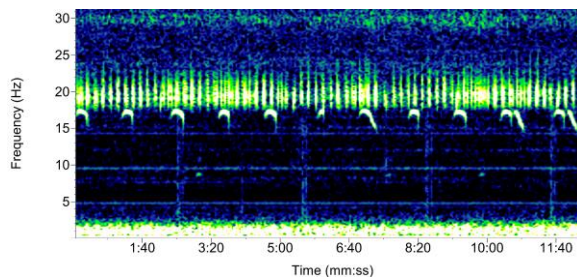
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Cornell University, Cornell Lab of Ornithology, K. Lisa Yang Center for Conservation Bioacoustics. 2023. Blue Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Blue Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Blue Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Fin Whale *Balaenoptera physalus*

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Fin

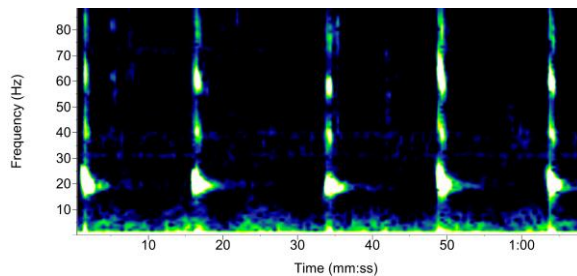
Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Fin

Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Fin

Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Humpback Whale *Megaptera novaeangliae*

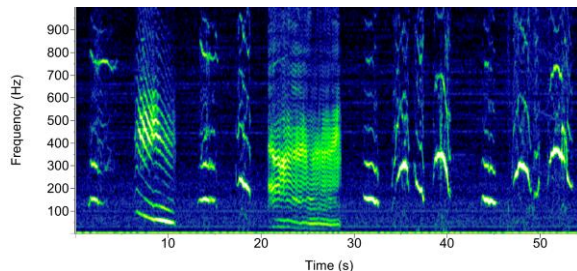
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Humpback Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Danielle Cholewiak. 2023. Humpback Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Humpback Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Minke Whale *Balaenoptera acutorostrata*

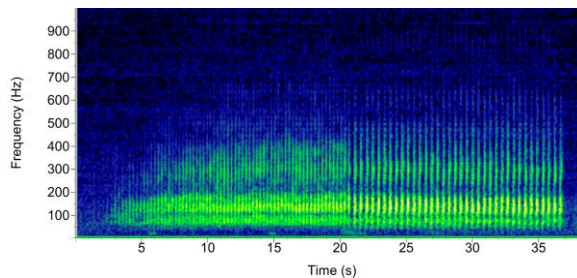
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Minke Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Leah Crowe. 2023. Minke Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Minke Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

North Atlantic Right Whale 1 *Eubalaena glacialis*

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. North Atlantic Right Whale

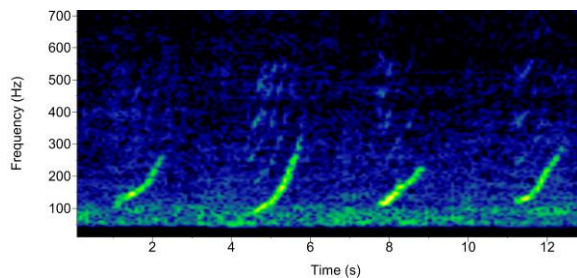
1. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. North Atlantic Right Whale

1. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. North Atlantic Right Whale

1. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

North Atlantic Right Whale 2 *Eubalaena glacialis*

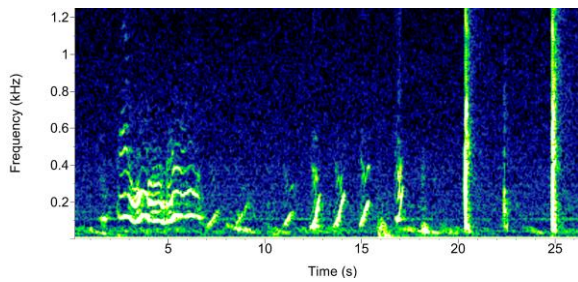
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. North Atlantic Right Whale
2. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center]. 2023. North Atlantic Right Whale
2. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. North Atlantic Right Whale
2. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Sei Whale *Balaenoptera borealis*

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Sei

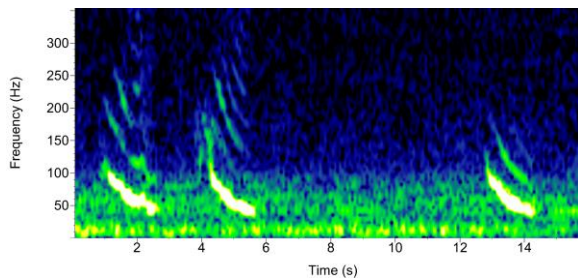
Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Sei

Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Sei

Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Odontocetes (Toothed Whales)

Atlantic Spotted Dolphin *Stenella frontalis*

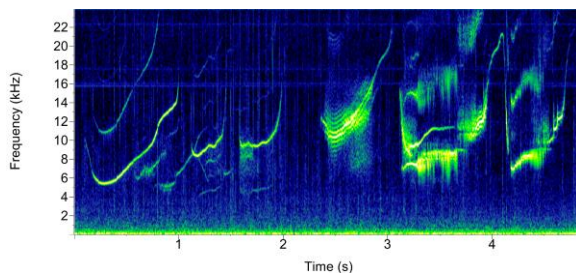
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Atlantic Spotted Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Allison Henry. 2023. Atlantic Spotted Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Atlantic Spotted Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Atlantic White-sided Dolphin *Lagenorhynchus acutus*

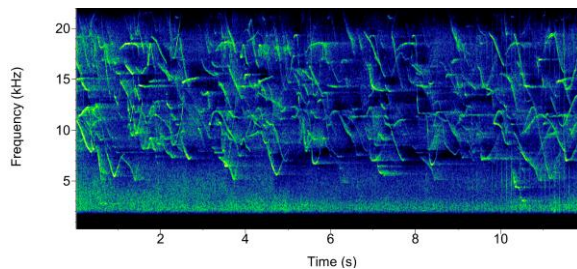
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Atlantic White-sided Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center]. 2023. Atlantic White-sided Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Atlantic White-sided Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Beluga Whale *Delphinapterus leucas*

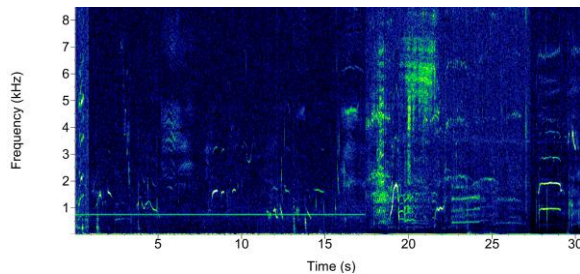
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Manuel Castellote. 2023. Beluga Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. AFSC [Alaska Fisheries Science Center], Manuel Castellote. 2023. Beluga Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Beluga Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Bottlenose Dolphin *Tursiops truncatus*

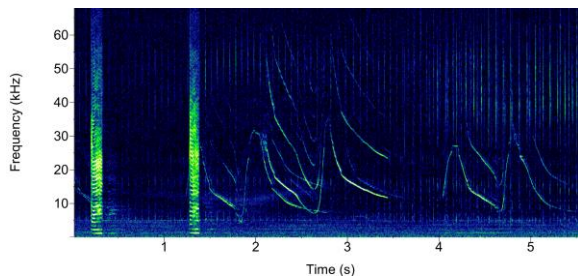
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Bottlenose Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Rich Holt. 2023. Bottlenose Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Bottlenose Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Cuvier's Beaked Whale *Ziphius cavirostris*

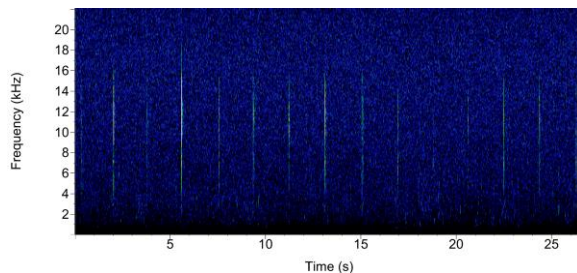
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Cuvier's Beaked Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Ari Friedlander. 2023. Cuvier's Beaked Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Cuvier's Beaked Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Harbor Porpoise *Phocoena phocoena*

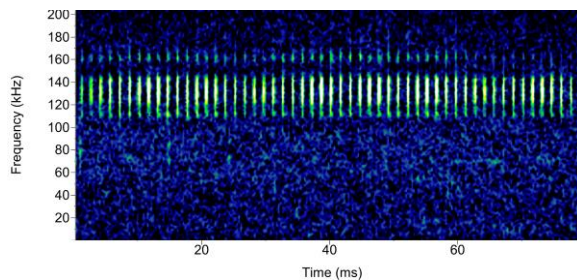
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Scottish Association for Marine Science, Denise Risch. 2023. Harbor Porpoise. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Mingan Island Cetacean Study. 2023. Harbor Porpoise. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Harbor Porpoise. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Humpback Dolphin *Sousa spp.*

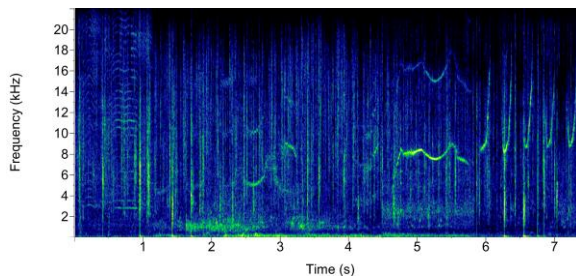
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Humpback Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Flinders University, Guido Parra. 2023. Humpback Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Humpback Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Killer Whale *Orcinus orca*

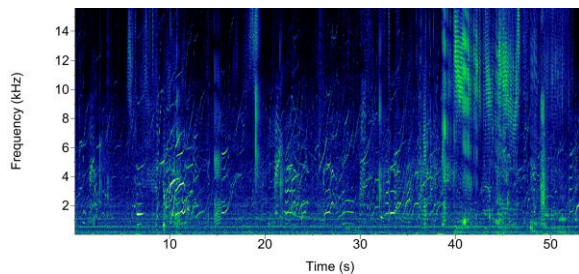
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Killer Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Marine Education and Research Society, Christie McMillan. 2023. Killer Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Killer Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Northern Bottlenose Whale *Hyperoodon ampullatus*

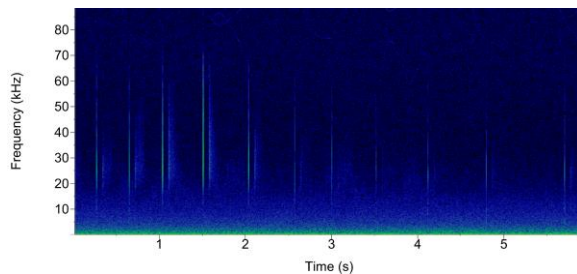
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Fisheries and Oceans Canada, Team Whale. 2023. Northern Bottlenose Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Northern Bottlenose Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Northern Bottlenose Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Pilot Whale *Globicephala spp.*

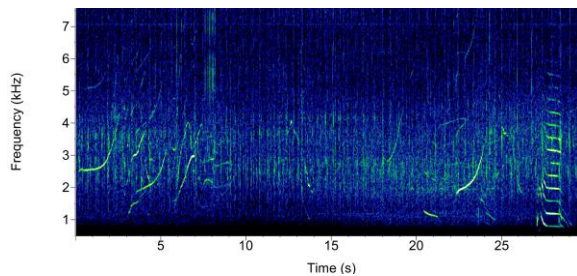
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Pilot Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Pilot Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Pilot Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Risso's Dolphin *Grampus griseus*

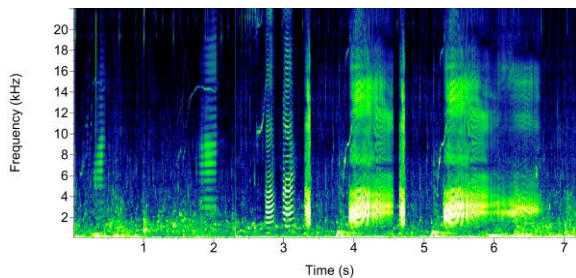
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Risso's Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Risso's Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Risso's Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Short-beaked Common Dolphin *Delphinus delphis*

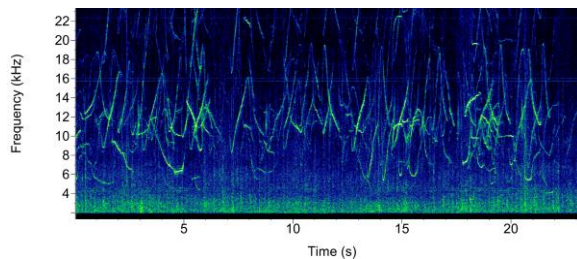
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Short-beaked Common Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Danielle Cholewiak. 2023. Short-beaked Common Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Short-beaked Common Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Sperm Whale *Physeter macrocephalus*

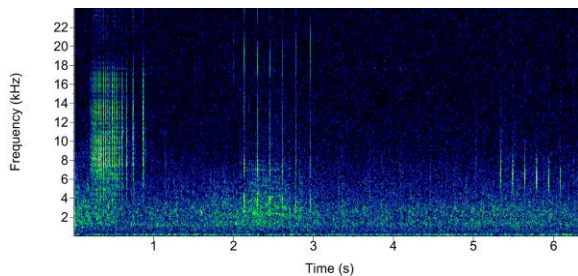
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Sperm Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center]. 2023. Sperm Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Sperm Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Striped Dolphin *Stenella coeruleoalba*

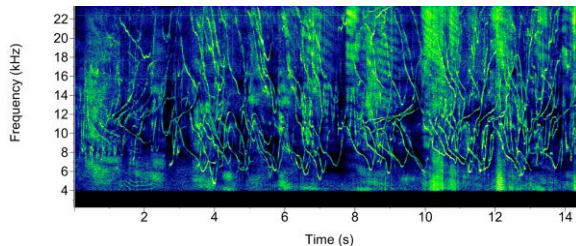
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Striped Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Danielle Cholewiak. 2023. Striped Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Striped Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

True's Beaked Whale *Mesoplodon mirus*

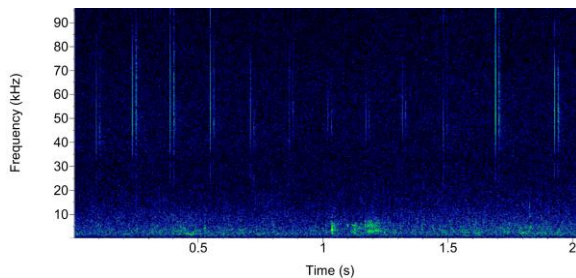
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. True's Beaked Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Salvatore Cerchio. 2023. True's Beaked Whale. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

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White-beaked Dolphin *Lagenorhynchus albirostris*

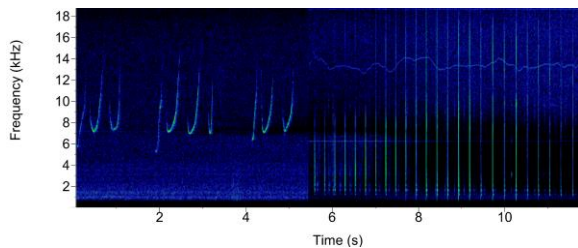
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. White-beaked Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Mingan Island Cetacean Study, Christian Ramp. 2023. White-beaked Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. White-beaked Dolphin. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Pinnipeds (Seals, Sea Lions & Walruses)

Bearded Seal *Erignathus barbatus*

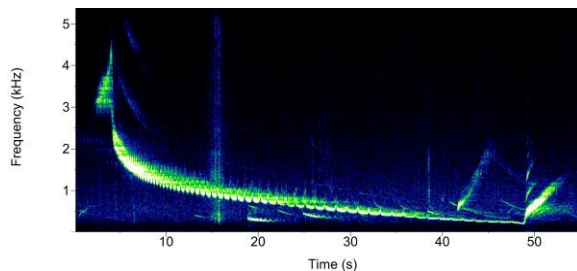
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Cornell University, Cornell Lab of Ornithology, K. Lisa Yang Center for Conservation Bioacoustics. 2023. Bearded Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Norwegian Polar Institute, Hans Wolkers. 2023. Bearded Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Bearded Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Crabeater Seal *Lobodon carcinophaga*

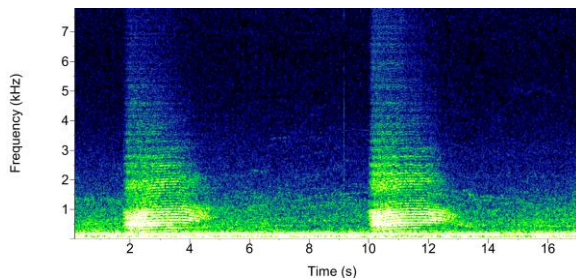
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Crabeater Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Crabeater Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Crabeater Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Gray Seal *Halichoerus grypus atlantica*

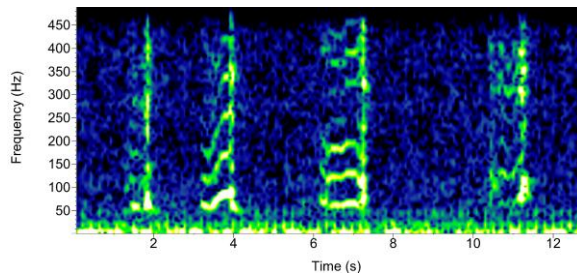
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center]. 2023. Gray Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Gordon Waring. 2023. Gray Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Gray Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Harbor Seal *Phoca vitulina*

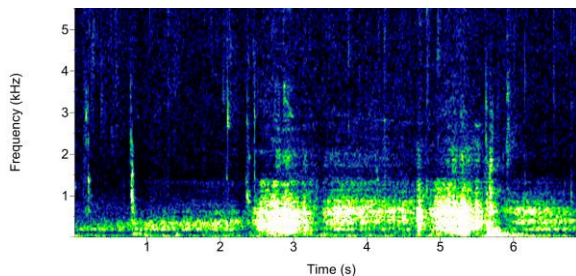
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Harbor Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. GARFO [Greater Atlantic Regional Fisheries Office]. 2023. Harbor Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Harbor Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Harp Seal *Pagophilus groenlandicus*

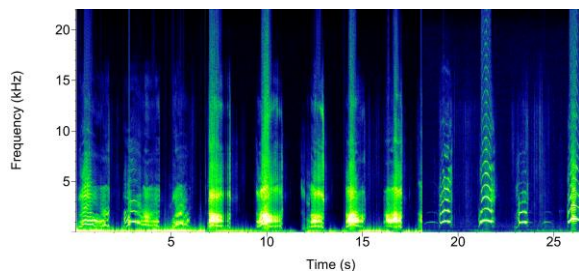
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Norwegian Polar Institute, Sofie Van Parijs. 2023. Harp Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Norwegian Polar Institute, Hans Wolkers. 2023. Harp Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Harp Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Leopard Seal *Hydrurga leptonyx*

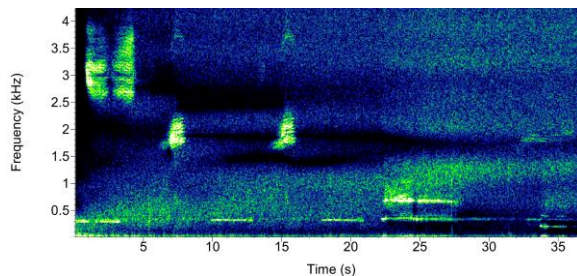
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Leopard Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Leopard Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Leopard Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Northern Fur Seal *Callorhinus ursinus*

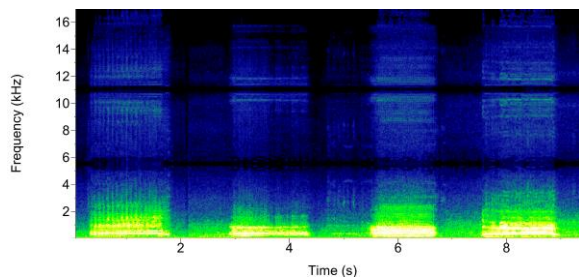
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Wildlife Conservation Society Canada, Stephen Insley. 2023. Northern Fur Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Kristin Wilkinson. 2023. Northern Fur Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Northern Fur Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Ross Seal *Ommatophoca rossii*

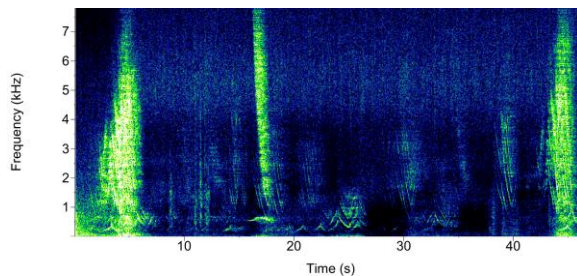
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Ross Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Ross Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Ross Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Walrus *Odobenus rosmarus*

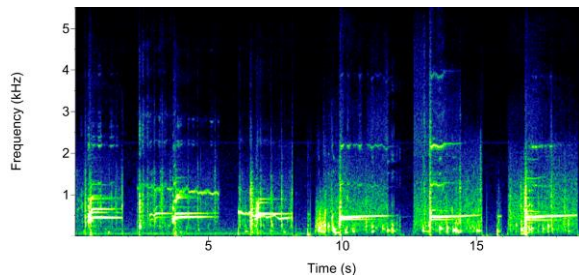
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Fisheries and Oceans Canada, Becky Sjare. 2023. Walrus. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. University of Alberta, Ian Stirling. 2023. Walrus. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Walrus. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Weddell Seal *Leptonychotes weddellii*

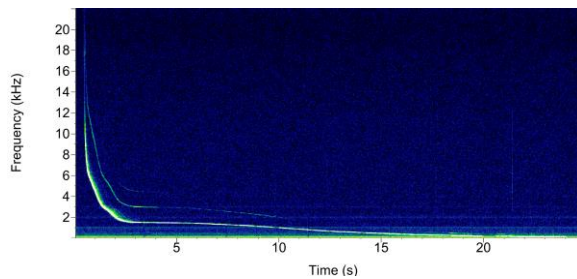
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. University of New Brunswick, Jack Terhune. 2023. Weddell Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Joachim Ploetz. 2023. Weddell Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Weddell Seal. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-mammals>

Teleosts (Bony Fishes)

Atlantic Cod *Gadus morhua*

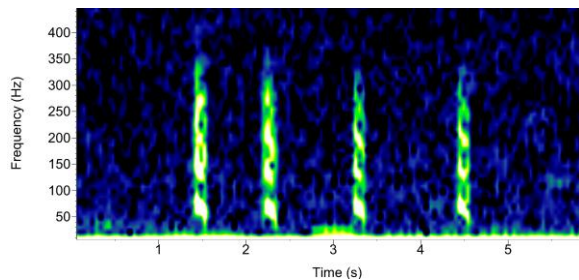
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Atlantic Cod. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, SBNMS [Stellwagen Bank National Marine Sanctuary], Doug Costa. 2023. Atlantic Cod. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Atlantic Cod. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Black Drum *Pogonias cromis*

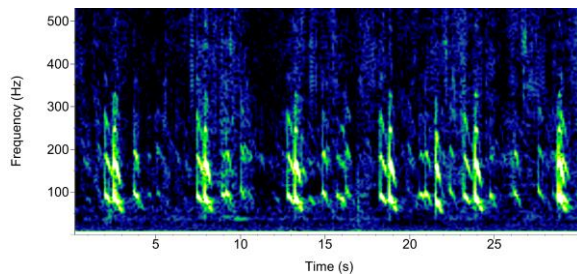
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. LGL Ecological Research Associates, LLC, William Heyman. 2023. Black Drum. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Smithsonian Environmental Research Center, Robert Aguilar. 2023. Black Drum. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Black Drum. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Black Grouper *Mycteroperca bonaci*

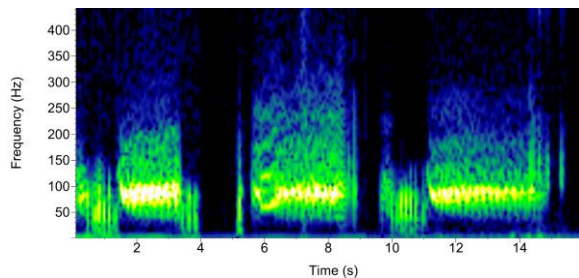
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. University of Puerto Rico, Timothy Rowell. 2023. Black Grouper. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. United States Fish and Wildlife Service, Jan Zegarra. 2023. Black Grouper. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Black Grouper. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Haddock *Melanogrammus aeglefinus*

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023.

Haddock. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

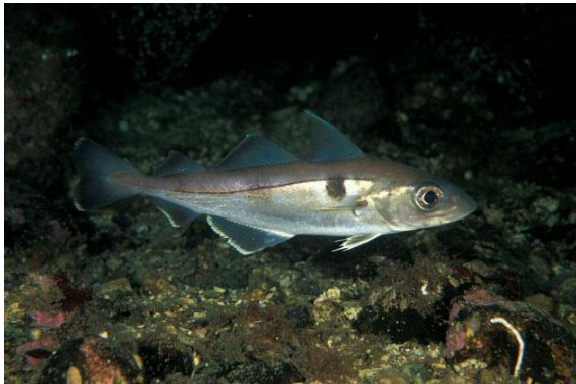
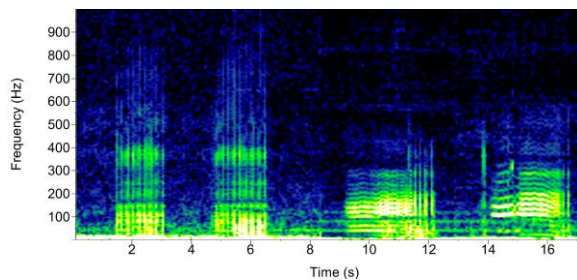


Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. 2023.

Haddock. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023.

Haddock. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Red Grouper *Epinephelus morio*

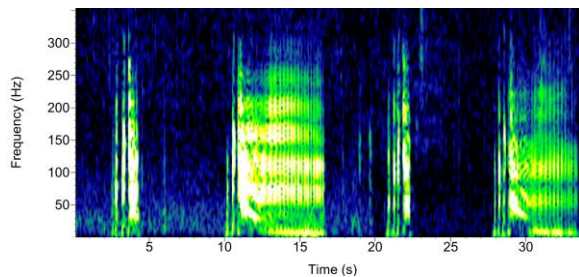
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Red Grouper. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. 2023. Red Grouper. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Red Grouper. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Silver Perch *Bairdiella chrysoura*

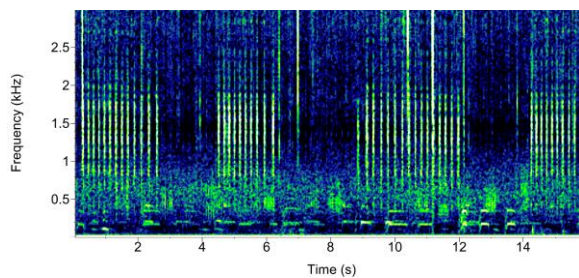
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. LGL Ecological Research Associates, LLC, William Heyman. 2023. Silver Perch. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, SEFSC [Southeast Fisheries Science Center], Brandi Noble. 2023. Silver Perch. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Silver Perch. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Toadfish *Opsanus spp.*

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023.

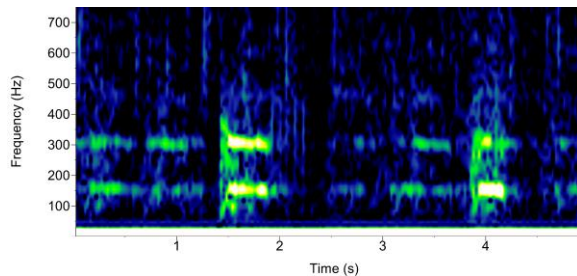
Toadfish. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, SEFSC [Southeast Fisheries Science Center], Zeb Schobernd. 2023.

Toadfish. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023.

Toadfish. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Invertebrates

Snapping Shrimp *Alpheus spp.*

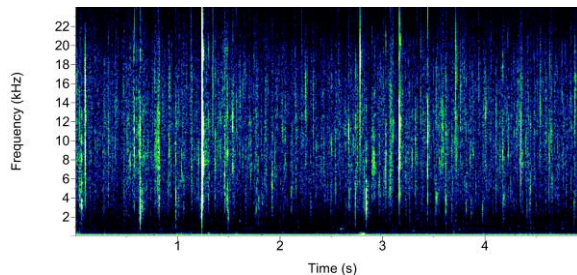
Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Snapping Shrimp. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. Woods Hole Oceanographic Institution, Ashlee Lillis. 2023. Snapping Shrimp. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Snapping Shrimp. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-fish-and-invertebrates>

Environmental

Earthquake

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Earthquake.
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

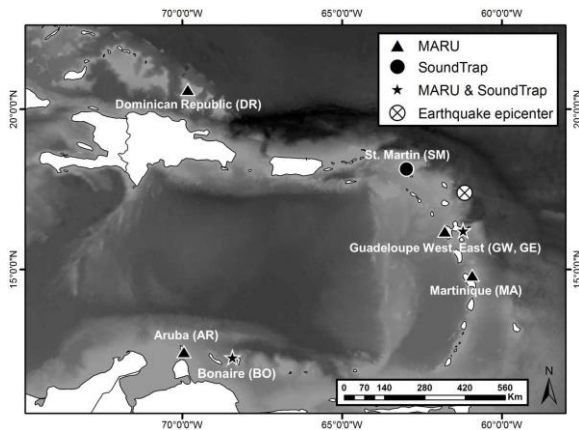
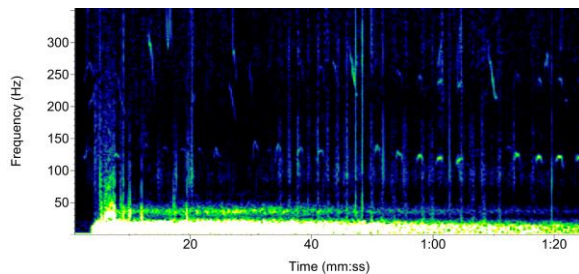


Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Heenehan et al. 2019 (Fig. 1). 2023. Earthquake.
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Earthquake.
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Ice Calving

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Ice Calving.

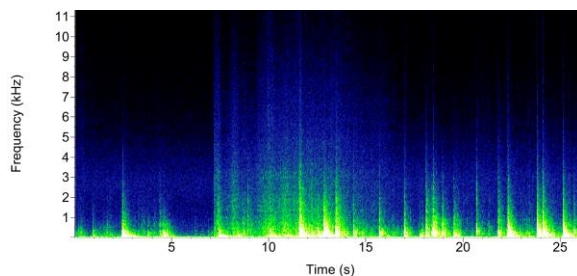
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Corps, John Bortniak. 2023.

Ice Calving. <https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Ice Calving.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Ice Singing

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Ice Singing.

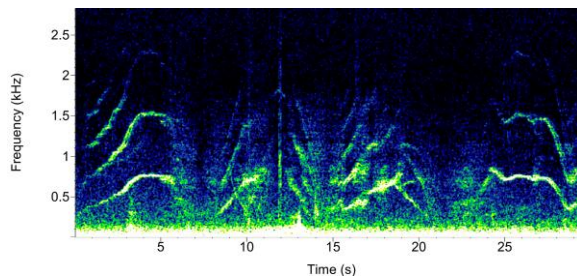
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. 2023. Ice Singing.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Ice Singing.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Quiet Ocean

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. Alfred Wegener Institute, Ilse Van Opzeeland. 2023. Quiet Ocean.

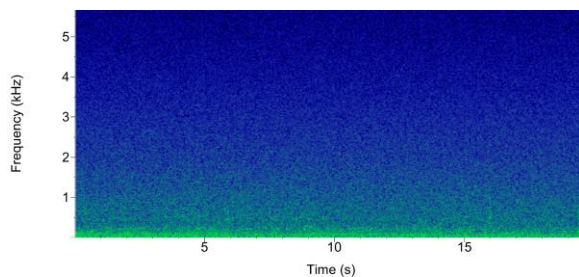
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Jennifer Wallace. 2023. Quiet Ocean.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Quiet Ocean.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Rain

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Rain.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

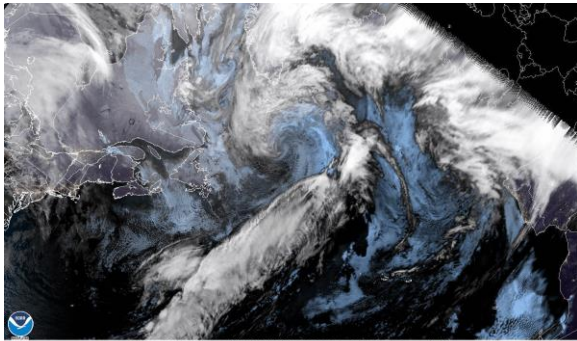
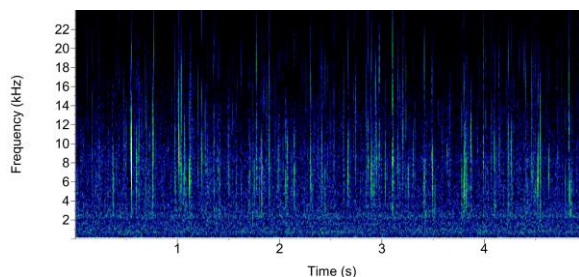


Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NESDIS [National Environmental Satellite, Data, and Information Service], STAR [Center for Satellite Applications and Research]. 2023. Rain.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Rain.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Soundscape

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Soundscape.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

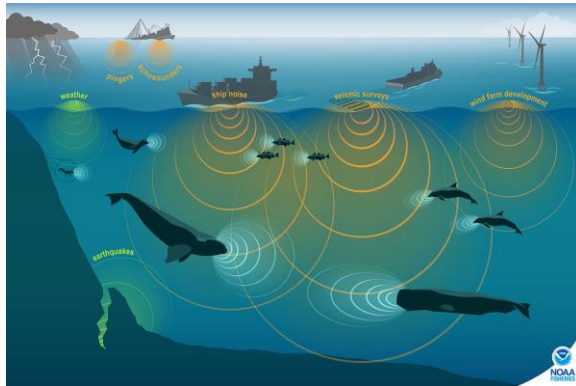
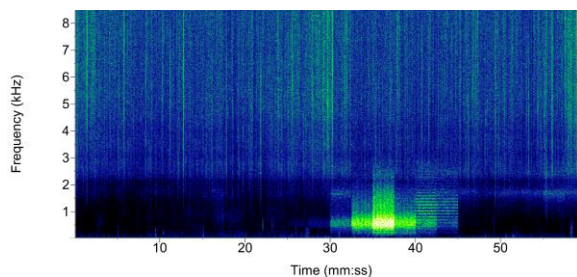


Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries. 2023. Soundscape.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Soundscape.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Thunderstorm

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Thunderstorm.

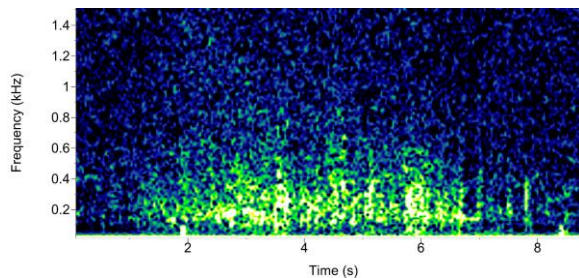
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. 2023. Thunderstorm.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Thunderstorm.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Anthropogenic (Human-made)

Echosounder

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Echosounder.
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

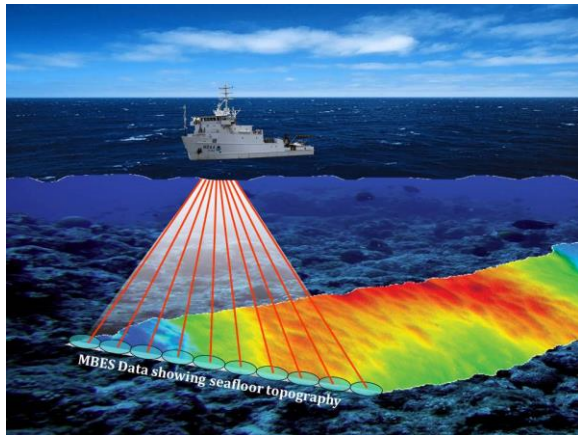
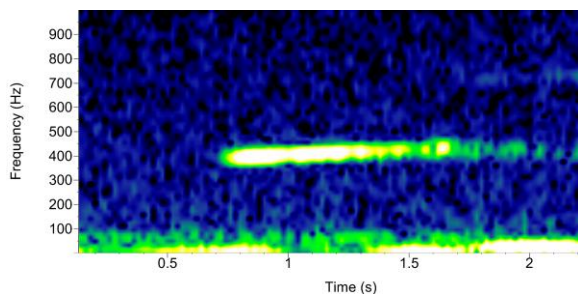


Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOS [National Ocean Service], NCCOS [National Centers for Coastal Ocean Science], CCMA [Center for Coastal Monitoring and Assessment]. 2023. Echosounder.
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Echosounder.
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Pile Driving (Offshore Wind Energy Construction)

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Pile Driving (Offshore Wind Energy Construction).

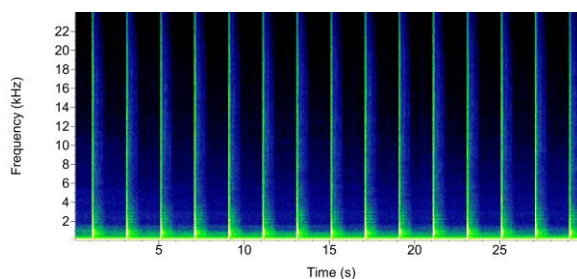
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center]. 2023. Pile Driving (Offshore Wind Energy Construction).

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Pile Driving (Offshore Wind Energy Construction).

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Seismic (Oil & Gas)

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Seismic (Oil & Gas).

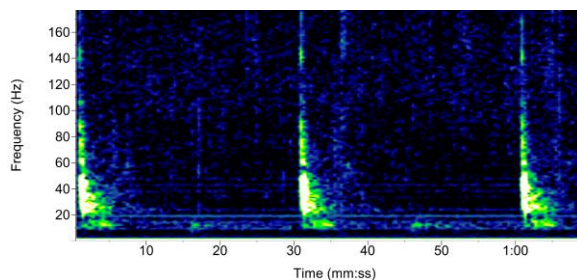
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Seismic (Oil & Gas).

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Seismic (Oil & Gas).

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Small Vessel

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Small Vessel.

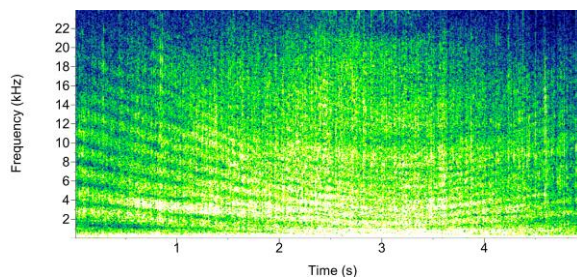
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Small Vessel.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Small Vessel.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>

Large Vessel

Recording citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center]. 2023. Large Vessel.

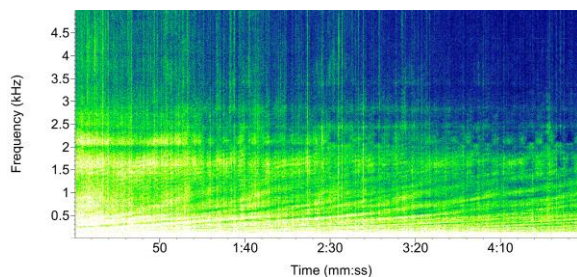
<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Photo citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Pete Duley. 2023. Large Vessel.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>



Spectrogram citation:

NOAA [National Oceanic and Atmospheric Administration]. NOAA Fisheries, NEFSC [Northeast Fisheries Science Center], Passive Acoustics Branch. 2023. Large Vessel.

<https://www.fisheries.noaa.gov/national/science-data/sounds-ocean-environmental-and-anthropogenic>