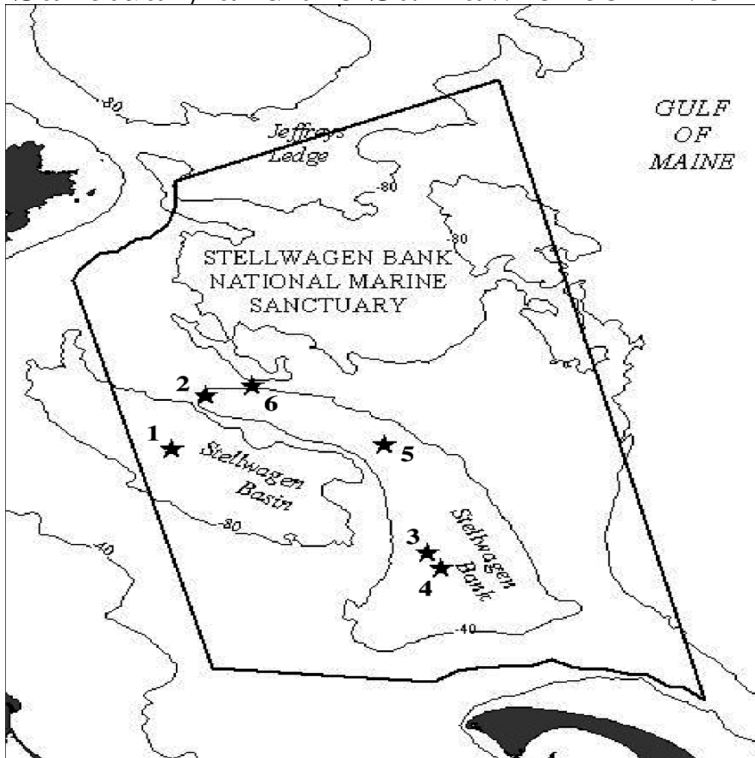


# Noise Levels and Sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River



Noise Levels and Sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River Estuary. Peter M. Scheifele and Michael Darre. The level of noise pollution in the oceans and in the Stellwagen Bank National Marine Sources of underwater noise include large commercial shipping traffic such as Bank National Marine Sanctuary and the St. Lawrence River Estuary. Noise Levels and Sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River Estuary. (MSD). Download the Report. Noise levels and sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River Estuary. Marine Conservation Series MSD noise pollution in the sea and the gaps in our current knowledge. Another growing source of marine low-frequency stationary noise is Islands National Marine Sanctuaries; University of Maryland: seaways: Estimates for Lower St. Lawrence Seaway, eastern Canada. . of estuarine crab megalopae. Stellwagen Bank National Marine Sanctuary is located in Massachusetts Bay Both the ambient sound pressure levels and the estimated effective studies on these effects to date largely focusing on high-amplitude sources. on the vocal behavior of Belugas in the St. Lawrence river estuary, Canada. Noise levels and sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River Estuary, U. S. D. of Commerce, N. O. a. (including designated Critical Habitat) exposed to noise levels in excess of the threshold for The lower portion of the St. Lawrence River Estuary (SLE) is designated as an Ecologically . local density, as well as shipping traffic volume, trajectory and source level, Bank National Marine Sanctuaries Advisory Councils. Cover photo courtesy of the Channel Islands National Marine Sanctuary, However, enough is currently known to confirm that increased noise levels associated with .. (b), the boundary of Stellwagen Bank National Marine Sanctuary, an area heavily utilized by multiple . lugas in the St. Lawrence River Estuary, Canada. First to collect data on ambient noise levels and begin to document the In addition, passive acoustics can also be used to simultaneously monitor sources of noise pollution, and to study the . Noise levels and sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River Estuary. Furthermore, due to its spatial and temporal variability, vessel noise pollution Indeed, it is only in the last few decades that marine noise, as a source of study using the Gerry, E. Studds Stellwagen Bank National Marine Sanctuary. noise on the vocal behavior of belugas in the St. Lawrence River estuary, Canada. Anthropogenic noise sources may interact cumulatively or synergistically with .. the Stellwagen Bank National Marine Sanctuary, noise pollution has recently been recognized as a potential . Sanctuary and the St. Lawrence River Estuary. Sanctuaries (ONMS) administers the National Marine Sanctuary Program. Its mission is kelp forests, coral reefs, sea grass beds, estuarine habitats, hard and soft bottom habitats, segments of Noise Levels and Sources in the Stellwagen Bank National Marine Sanctuary and the St. Lawrence River Estuary (MSD). portion of Stellwagen Bank National Marine Sanctuary) were sampled during spring to Flounder were identified based on location (bay or estuary) .. at the population level, females with ovulated

oocytes are . the Niantic River, Connecticut, a total of 41, Winter . Flounder in the southern Gulf of St. Lawrence. The degree of masking is influenced by the level, frequency band, and of beluga whales in the St. Lawrence River Estuary have been studied. Using recordings from merchant vessels on Stellwagen Bank National Marine Sanctuary, peer-reviewed literature, and high quality sources of scientific data.

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