



**BILLING CODE 3510-22-P**

**DEPARTMENT OF COMMERCE**

**National Oceanic and Atmospheric Administration**

**RIN 0648-XC969**

**Draft Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing – Acoustic Threshold Levels for Onset of Permanent and Temporary Threshold Shifts**

**AGENCY:** National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

**ACTION:** Notice; request for comments.

**SUMMARY:** The National Marine Fisheries Service (NMFS), on behalf of NMFS and the National Ocean Service (referred collectively here as the National Oceanic and Atmospheric Administration (NOAA)), announces the availability of a revised version of draft guidance for assessing the effects of anthropogenic sound on marine mammal species under NOAA's jurisdiction. The guidance provides updated received levels, or thresholds, above which individual marine mammals are predicted to experience changes in their hearing sensitivity (either temporary or permanent) for all underwater anthropogenic sound sources. NOAA solicits public comment on the revised draft guidance based on updated scientific information and comments received during the first public comment period.

**DATES:** Comments must be received by [INSERT DATE 45 DAYS AFTER DATE OF

**PUBLICATION IN THE FEDERAL REGISTER].**

**ADDRESSES:** The revised draft guidance is available in electronic form via the Internet at <http://www.nmfs.noaa.gov/pr/acoustics/>.

You may submit comments, which should be identified with NOAA-NMFS-2013-0177, by any of the following methods:

*Electronic Submissions:* Submit all electronic public comments via the Federal eRulemaking Portal <http://www.regulations.gov>.

*Mail:* Send comments to: Chief, Marine Mammal and Sea Turtle Conservation Division, Office of Protected Resources, National Marine Fisheries Service, 1315 East-West Highway, Silver Spring, MD 20910-3226, Attn: Acoustic Guidance.

**Instructions:** All comments received are a part of the public record and will generally be posted to <http://www.regulations.gov> without change. All Personal Identifying Information (e.g., name, address, etc.) voluntarily submitted by the commenter may be publicly accessible. Do not submit Confidential Business Information or otherwise sensitive or protected information.

NMFS will accept anonymous comments (enter N/A in the required fields, if you wish to remain anonymous). You may submit attachments to electronic comments in Microsoft Word, Excel, WordPerfect, or Adobe PDF file formats only.

**FOR FURTHER INFORMATION CONTACT:** Amy Scholik-Schlomer, Office of Protected Resources, 301-427-8449, [Amy.Scholik@noaa.gov](mailto:Amy.Scholik@noaa.gov).

**SUPPLEMENTARY INFORMATION:**

NOAA has developed draft guidance for assessing the effects of anthropogenic sound on the hearing of marine mammal species under NOAA's jurisdiction (i.e., whales, dolphins,

porpoises, seals and sea lions). Specifically, the guidance identifies the received levels, or thresholds, above which individual marine mammals are predicted to experience changes in their hearing sensitivity (either temporary or permanent) for all underwater anthropogenic sound sources. This guidance is intended to be used by NOAA analysts and managers and other relevant user groups and stakeholders, including other federal agencies, when seeking to determine whether and how their activities are expected to result in particular types of impacts to marine mammals via acoustic exposure. The document outlines NOAA's updated acoustic threshold level, describes in detail how the thresholds were developed, and explains how they will be updated in the future. NOAA published a **Federal Register** Notice on December 27, 2013, announcing the availability of the draft guidance and a 30-day public comment period (78 FR 78822), which was extended another 45 days based upon public request on January 29, 2014 (79 FR 4672). Please refer to these **Federal Register** Notices for additional background about the draft guidance.

While NOAA was in the process of evaluating and addressing public comments, the U.S. Navy updated its methodology for the development of marine mammal auditory weighting functions and acoustic threshold levels. NOAA evaluated the proposed methodology and preliminarily determined that it reflects the best available science. Accordingly, we have incorporated it into our draft guidance. NOAA also re-evaluated its methods for defining threshold usage for sources characterized as "impulsive" or "non-impulsive" based on comments received during the initial public comment period. As a result, NOAA is now soliciting public comment, via this second public comment period, on this revised version of the draft guidance that incorporates these changes.

Updated sections can be found in the following locations: (1) a summary of the updated draft acoustic threshold levels and marine mammal auditory weighting functions is in the main body of the document, with additional details provided in Appendix A (Navy Technical Report); (2) NOAA’s proposed methodology for defining threshold usage for sources characterized as “impulsive” or “non-impulsive” is in Section 2.3.1 of the main document, with additional details in Appendix C; (3) a new appendix identifying research recommendations and data gaps in response to comments submitted during the initial public comment period is Appendix D; and a new appendix providing optional alternative methodology for user groups unable to apply the guidance’s more complex acoustic threshold levels and auditory weighting functions is Appendix E.

Before the guidance is finalized, NOAA will address substantive public comments received from the initial public comment period, as well as from this second public comment period. Therefore, NOAA encourages the public to currently focus comments on the revised and new sections of the document. We are particularly interested in identification of any additional datasets for inclusion in the assessment, comments on our proposed methodology for transitioning from “impulsive” to “non-impulsive” acoustic threshold levels, and evaluation of the methodology associated with updated marine mammal auditory weighting functions and acoustic thresholds.

The guidance is classified as a Highly Influential Scientific Assessment by the Office of Management and Budget. As such, independent peer review is required prior to broad public dissemination by the Federal Government. NOAA recently conducted two independent peer reviews in association with the revised draft guidance (in addition to the peer review on the first



draft of the guidance). Details of both peer reviews can be found within the draft guidance and at the following website: <http://www.nmfs.noaa.gov/pr/acoustics/>.

Dated: July 27, 2015.

Perry F. Gayaldo,

Deputy Director,

Office of Protected Resources, National Marine Fisheries Service.

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