

of the relevant entries during this review period. Failure to comply with this requirement could result in Commerce's presumption that reimbursement of antidumping duties occurred and the subsequent assessment of double antidumping duties.

Notification Regarding Administrative Protective Order

This notice also serves as a reminder to parties subject to administrative protective order (APO) of their responsibility concerning the disposition of proprietary information disclosed under APO in accordance with 19 CFR 351.305(a)(3). Timely written notification of return/destruction of APO materials or conversion to judicial protective order is hereby requested. Failure to comply with the regulations and the terms of an APO is a sanctionable violation.

Notification to Interested Parties

We are issuing and publishing this notice in accordance with sections 751(a)(1) and 777(i)(1) of the Act, and 19 CFR 351.213(h).

Dated: August 11, 2021.

Christian Marsh,

Acting Assistant Secretary for Enforcement and Compliance.

Appendix

List of Topics Discussed in the Final Decision Memorandum

- I. Summary
- II. Background
- III. Scope of the Order
- IV. Final Determination of No Shipments
- V. Margin for Companies Not Selected for Individual Examination
- VI. Changes Since the *Preliminary Results*
- VII. Discussion of Comments
 - Comment 1: Whether Commerce Should Treat Section 232 Duties as United States Import Duties and Whether Commerce Made a Clerical Error When Deducting Section 232 Duties from U.S. Price
 - Comment 2: Whether Commerce Made a Clerical Error Regarding the Treatment of Early Payment Discounts
 - Comment 3: Whether Commerce Made a Clerical Error Regarding the Selection of Customer Code
- VIII. Recommendation

[FR Doc. 2021-17650 Filed 8-17-21; 8:45 am]

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DEPARTMENT OF COMMERCE

International Trade Administration

[A-533-901]

Organic Soybean Meal From India: Postponement of Preliminary Determination in the Less-Than-Fair-Value Investigation

AGENCY: Enforcement and Compliance, International Trade Administration, Department of Commerce.

DATES: Applicable August 18, 2021.

FOR FURTHER INFORMATION CONTACT: Andrew Huston, AD/CVD Operations, Office VII, Enforcement and Compliance, International Trade Administration, U.S. Department of Commerce, 1401 Constitution Avenue NW, Washington, DC 20230; telephone: (202) 482-4261.

SUPPLEMENTARY INFORMATION:

Background

On April 20, 2021, the Department of Commerce (Commerce) initiated a less-than-fair-value (LTFV) investigation(s) of imports of organic soybean meal from India.¹ Currently, the preliminary determination is due no later than September 7, 2021.

Postponement of Preliminary Determination

Section 733(b)(1)(A) of the Tariff Act of 1930, as amended (the Act), requires Commerce to issue the preliminary determination in an LTFV investigation within 140 days after the date on which Commerce initiated the investigation. However, section 733(c)(1) of the Act permits Commerce to postpone the preliminary determination until no later than 190 days after the date on which Commerce initiated the investigation if: (A) The petitioner² makes a timely request for a postponement; or (B) Commerce concludes that the parties concerned are cooperating, that the investigation is extraordinarily complicated, and that additional time is necessary to make a preliminary determination. Under 19 CFR 351.205(e), the petitioner must submit a request for postponement 25 days or more before the scheduled date of the preliminary determination and must state the reasons for the request. Commerce will grant the request unless

¹ See *Organic Soybean Meal from India: Initiation of Less-Than-Fair Value Investigation*, 86 FR 22146 (April 27, 2021) (*Initiation Notice*).

² The petitioners are Organic Soybean Processors of America and the American Natural Processors, LLC, Organic Production Services, LLC, Professional Proteins, Ltd., Sheppard Grain Enterprises LLC, Simmons Grain Company, Super Soy, LLC, and Tri-State Crush LLC.

it finds compelling reasons to deny the request.

On August 9, 2021, the petitioners submitted a timely request that Commerce postpone the preliminary determinations in this LTFV investigation.³ The petitioners requested the postponement to permit Commerce to “fully develop the record in this investigation,” assess questionnaire responses, and issue supplemental questionnaires.⁴

For the reasons stated above and because there are no compelling reasons to deny the request, Commerce, in accordance with section 733(c)(1)(A) of the Act, is postponing the deadline for the preliminary determination by 50 days (*i.e.*, 190 days after the date on which this investigation was initiated). As a result, Commerce will issue its preliminary determination no later than October 27, 2021. In accordance with section 735(a)(1) of the Act and 19 CFR 351.210(b)(1), the deadline for the final determination of this investigation will continue to be 75 days after the date of the preliminary determination, unless postponed at a later date.

This notice is issued and published pursuant to section 733(c)(2) of the Act and 19 CFR 351.205(f)(1).

Dated: August 12, 2021.

Christian Marsh,

Acting Assistant Secretary for Enforcement and Compliance.

[FR Doc. 2021-17729 Filed 8-17-21; 8:45 am]

BILLING CODE 3510-DS-P

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

[RTID 0648-XB140]

Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to a Geophysical Survey in the Arctic Ocean

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

ACTION: Notice; issuance of an incidental harassment authorization.

SUMMARY: In accordance with the regulations implementing the Marine Mammal Protection Act (MMPA) as amended, notification is hereby given that NMFS has issued an Incidental Harassment Authorization (IHA) to the

³ See Petitioners' Letter, “Organic Soybean Meal from India: Petitioners' Request to Postpone the Preliminary Determination,” dated August 9, 2021.

⁴ *Id.*

University of Alaska Geophysics Institute (UAGI) to incidentally harass, by Level B harassment, marine mammals during geophysical surveys in the Arctic Ocean. This project is funded by the National Science Foundation (NSF).

DATES: This Authorization is effective for one year, from August 11, 2021 through August 10, 2022.

FOR FURTHER INFORMATION CONTACT: Kim Corcoran, Office of Protected Resources, NMFS, (301) 427-8401. Electronic copies of the application and supporting documents, as well as a list of the references cited in this document, may be obtained online at: <https://www.fisheries.noaa.gov/permit/incidental-take-authorizations-under-marine-mammal-protection-act>. In case of problems accessing these documents please call the contact listed above.

SUPPLEMENTARY INFORMATION:

Background

The MMPA prohibits the “take” of marine mammals, with certain exceptions. sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce (as delegated to NMFS) to allow, upon request, the incidental, but not intentional, taking of small numbers of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographical region if certain findings are made and either regulations are issued or, if the taking is limited to harassment, a notice of a proposed incidental take authorization may be provided to the public for review.

Authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s) and will not have an unmitigable adverse impact on the availability of the species or stock(s) for taking for subsistence uses (where relevant). Further, NMFS must prescribe the permissible methods of taking and other means of effecting the least practicable adverse impact on the affected species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of the species or stocks for taking for certain subsistence uses (referred to in shorthand as “mitigation”); and requirements

pertaining to the monitoring and reporting of the takings.

The definitions of all applicable MMPA statutory terms cited above are included in the relevant sections below.

Summary of Request

On February 12, 2021, NMFS received a request from UAGI for an IHA to take marine mammals incidental to a geophysical survey in the Arctic Ocean. The application was deemed adequate and complete on April 6, 2021. UAGI’s request is for take of 13 species of marine mammals, by Level B harassment only. No Level A harassment is anticipated. Neither UAGI nor NMFS expects serious injury or mortality to result from this activity. Therefore, an IHA is appropriate.

Description of Proposed Activity

Overview

Researchers at UAGI, with funding from NSF, plan to conduct a seismic survey from the Research Vessel (R/V) *Sikuliaq* in the Arctic Ocean to document the structure and stratigraphy of the Chukchi Borderland and adjacent Canada basin (see Figure 1). The proposed activity is planned to take place in late summer 2021 (August/September) with a total of 30 days of data acquisition. The survey will include both high-energy and low-energy components. High-energy ocean bottom seismometer (OBS) refraction surveys will use a 6-airgun, 3,120 cubic inch (in³) array and consist of ~12 percent of total survey effort (henceforth referred to as high-energy survey). Low-energy multi-channel seismic (MCS) reflection surveys will use a 2-airgun array with a total discharge volume of 1040 in³ and consist of ~88 percent of total survey effort (henceforth referred to as low-energy survey).

Dates and Duration

The activity will occur between August and September, 2021. The activity is planned to occur for 45 days total, with ~30 days dedicated to seismic data acquisition (with 24-hours a day operations), ~8 days devoted to transit and 7 days used for equipment deployment and recovery.

Specific Geographic Region

The surveys will occur within ~73.5–81.0° N, ~139.5–168° W (≥300 kilometer

(km) north of Utqiagvik). Representative survey track lines can be seen in Figure 1. Some deviation in track lines, including the order of survey operations, could be necessary for reasons such as science drivers, poor data quality, inclement weather, or mechanical issues with the research vessel and/or equipment. Thus, the track lines could occur anywhere within the coordinates noted above and within the study area. Four percent of the surveys will occur within the U.S. Exclusive Economic Zone (EEZ) with the remaining part of the survey occurring beyond the EEZ. The activity will take place in depths ranging from 200–4,000 meters (m). The R/V *Sikuliaq* would likely leave from and return to Nome, AK.

The low-energy survey activity will begin ~300 km from the Alaska coastline (North of Utqiagvik) and extend ~800 km north from the initial survey site (*i.e.*, the survey would occur ~300–1,100 km from the Alaska coastline). The high-energy survey activity will only occur ~530 km from the coastline and occur only in the northeastern part of the survey area (See Figure 1). Eighty percent of the total survey will occur in deep waters (>1,000 m) with the remainder of the survey occurring in intermediate depth waters (100–1,000m); no surveying will occur in waters <100 m deep. All high-energy surveys (680 km total) will occur in deep waters, while 67 percent of low-energy surveys will occur in deep waters (3,981 km). The remainder of low-energy surveys (1,189 km or 23 percent) will occur in intermediate depth waters.

A detailed description of the planned geophysical survey project is provided in the **Federal Register** notice for the proposed IHA (86 FR 28787; May 28, 2021). Since that time, no changes have been made to the planned survey activities. Therefore, a detailed description is not provided here. Please refer to that **Federal Register** notice for the description of the specified activity.

Mitigation, monitoring, and reporting measures are described in detail later in this document (please see Mitigation and Monitoring and Reporting).

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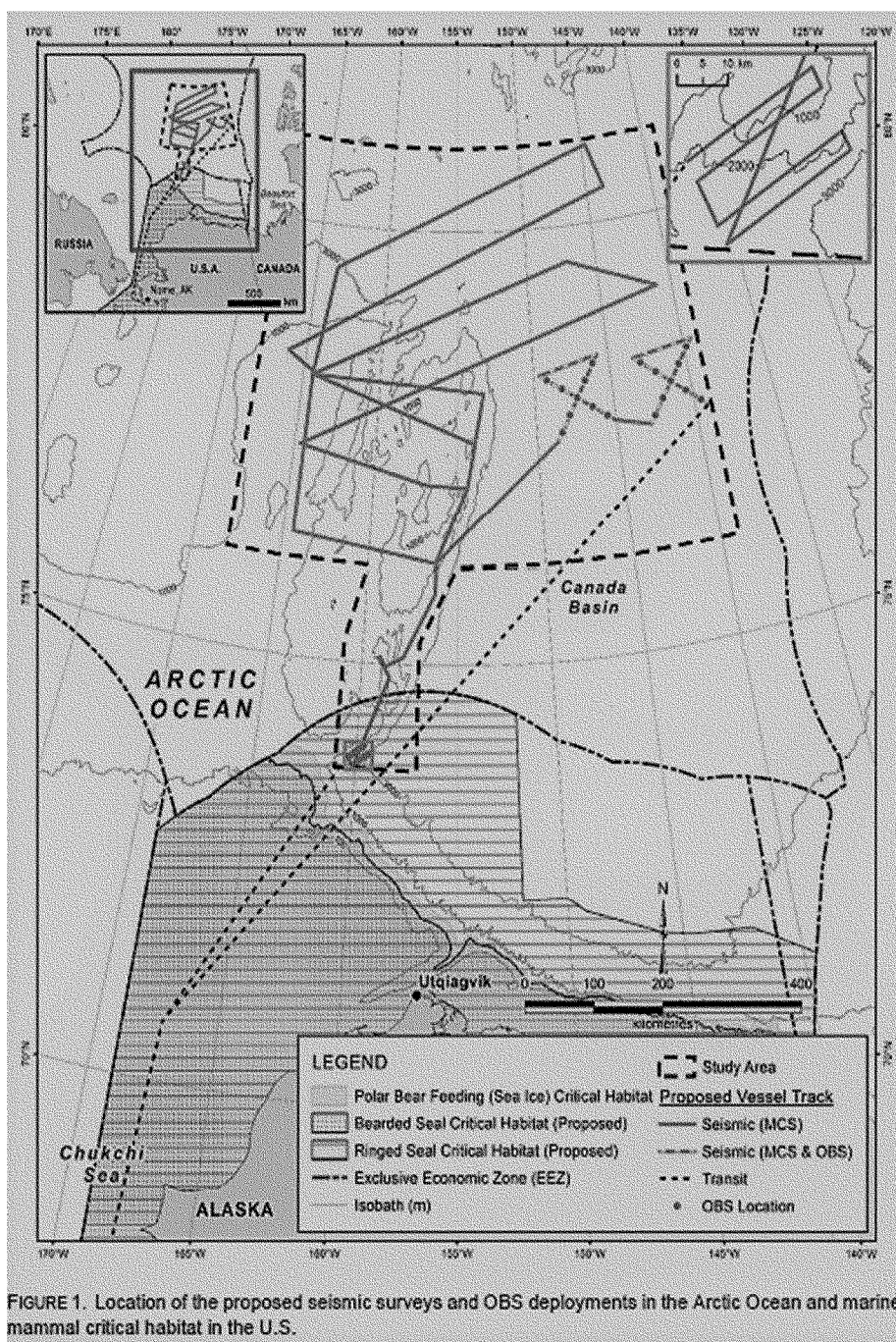


FIGURE 1. Location of the proposed seismic surveys and OBS deployments in the Arctic Ocean and marine mammal critical habitat in the U.S.

Figure 1. Location of the seismic surveys and OBS deployments in the Arctic Ocean and Endangered Species Act critical habitat in the U.S.

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Comments and Responses

A notice of NMFS' proposal to issue an IHA to UAGI was published in the **Federal Register** on May 28, 2021 (86 FR 28787). That notice described, in detail, UAGI's proposed activity, the marine mammal species that may be affected by the activity, and the anticipated effects on marine mammals. NMFS received a letter from the Alaska

Eskimo Whaling Commission (AEWC), which was the only comment received for this project. The letter noted that AEWC does not oppose UAGI's project but expressed concern regarding NMFS' decision not to subject the associated monitoring plan to independent peer review prior to making a decision regarding the requested IHA. In noting its concern, AEWC asserted that NMFS does not have discretion regarding whether to subject monitoring plans to

peer review, stating that NMFS' discretion extends only to how it engages peer review. While NMFS agrees with AEWC's statement in cases where the proposed activity may affect the availability of a species or stock of marine mammals for taking for subsistence purposes, NMFS' determined the proposed activity will not affect the availability of any species or stock of marine mammals for taking for subsistence purposes. Therefore,

peer review of the monitoring plan is not required.

NMFS' conclusion that UAGI's survey activity will not affect the availability of a species or stock of marine mammal for taking for subsistence purposes was based on the fact that the activity is a significant distance from shore and well beyond traditional hunting areas. The take UAGI requested will occur incidental to activities conducted well beyond 200 km from any hunting area or buffer. The survey will occur no closer than 300 km from the Alaska coastline, with the high-energy portion of the project occurring no closer than 530 km from the coastline. The maximum estimated harassment zone for the survey is 2.4 km and 4.65 km for the low-energy and high-energy survey portions, respectively. Therefore, any take from these activities will not directly interfere with the hunt. Furthermore, there is no information supporting a conclusion that any behavioral disturbance of bowhead whales occurring at such great distance from traditional hunting areas (300–500 km) would affect their subsequent behavior in a manner that would interfere with subsistence uses should those whales later interact with hunters. As stated above, based on the foregoing information, NMFS determined that the activity would not affect the availability of any species or stock for taking for subsistence purposes and, therefore, that peer review of the monitoring plan was not warranted. No changes have been made from the proposed IHA to the final IHA in response to comments.

Changes From the Proposed IHA to Final IHA

Following the public comment period, NMFS identified an error in the calculation of bowhead whale density. The density value for bowhead whales described in the notice of proposed IHA (86 FR 28787; May 28, 2021) (0.0124) was itself correct, but represents the number of individuals per 100 km² rather than individuals per 1 km², as was assumed for the proposed IHA. NMFS has corrected this error and, as a result, the authorized Level B harassment take number is reduced from 339 to 3.

Additionally, NMFS identified errors made when calculating the total take numbers proposed for authorization for all species due to use of incorrect estimated Level A harassment zoned areas and double counting of estimated exposures within Level A harassment zones (*i.e.*, estimated exposures were double counted as both Level B harassment takes and as

independently estimated exposures within the Level A harassment zones, which were also tallied as takes by Level B harassment). These errors have been corrected, and the revised authorized take numbers are shown in Table 7. All revised take numbers are lower than those proposed for authorization (86 FR 28787; May 28, 2021). Please refer to the Estimated Take section for further detail regarding this change.

Lastly, we note a mistake in the proposed IHA that has since been corrected. One section of the proposed IHA (4(f)(iv)) described the shutdown mitigation measure for bowhead whales to be at any distance while the proposed FR notice and the rest of the proposed IHA stated this distance to be at 1,500 m. This has since been corrected for the final IHA and the shutdown area and the exclusion zone will be at 1,500 m bowhead whales. Additionally, the requirement for bigeye binoculars has been removed as they are not available on board the R/V *Sikuliaq*.

Description of Marine Mammals in the Area of Specified Activities

Sections 3 and 4 of the application summarize available information regarding status and trends, distribution and habitat preferences, and behavior and life history of the potentially affected species. Additional information regarding population trends and threats may be found in NMFS' Stock Assessment Reports (SARs; <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments>) and more general information about these species (*e.g.*, physical and behavioral descriptions) may be found on NMFS' website (<https://www.fisheries.noaa.gov/find-species>). Additional information may be found in the Aerial Survey of Arctic Marine Mammals (ASAMM) reports, which are available online at <https://www.fisheries.noaa.gov/alaska/marine-mammal-protection/aerial-surveys-arctic-marine-mammals>.

Table 1 lists all species or stocks for which take is expected and authorized for this action, and summarizes information related to the population or stock, including regulatory status under the MMPA and Endangered Species Act (ESA) and potential biological removal (PBR), where known. For taxonomy, we follow Committee on Taxonomy from the Society for Marine Mammalogy (2021). PBR is defined by the MMPA as the maximum number of animals, not including natural mortalities, that may be removed from a marine mammal

stock while allowing that stock to reach or maintain its optimum sustainable population (as described in NMFS' SARs). While no mortality is anticipated or authorized here, PBR and annual serious injury and mortality from anthropogenic sources are included here as gross indicators of the status of the species and other threats.

Marine mammal abundance estimates presented in this document represent the total number of individuals that make up a given stock or the total number estimated within a particular study or survey area. NMFS' stock abundance estimates for most species represent the total estimate of individuals within the geographic area, if known, that comprise that stock. For most species, stock abundance estimates are based on sightings within the U.S. EEZ; however, for some species, this geographic area may extend beyond U.S. waters. Survey abundance estimates may be used for other species. Survey abundance (as compared to stock or species abundance) is the total number of individuals estimated within the survey area, which may or may not align completely with a stock's geographic range as defined in the SARs. These surveys may also extend beyond U.S. waters. In this case, the survey area outside of the U.S. EEZ does not necessarily overlap with the ranges for stocks managed by NMFS. However, we assume that individuals of these species that may be encountered during the survey would be part of those stocks. Additionally, six species listed in Table 1 indicate Unknown abundance estimates. This may be due to outdated data and population estimates or data is not representative of the entire stock.

All managed stocks in this region are assessed in NMFS' U.S. Alaska and Pacific SARs (*e.g.*, Muto *et al.*, 2021, Carretta *et al.*, 2021). All values presented in Table 1 are the most recent available at the time of publication and are available in the 2020 SARs (Muto *et al.*, 2021, Carretta *et al.*, 2021) (available online at: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/draft-marine-mammal-stock-assessment-reports>).

In addition, the Pacific walrus (*Odobenus rosmarus divergens*) and the Polar bear (*Ursus maritimus*) may be found in the Arctic. However, Pacific walruses and Polar bears are managed by the U.S. Fish and Wildlife Service and are not considered further in this document.

TABLE 1—MARINE MAMMALS EXPECTED TO OCCUR IN THE SURVEY AREA

Common name	Scientific name	Stock	ESA/ MMPA status; strategic (Y/N) ¹	Stock abundance (CV, N _{min} , most recent abundance survey) ²	PBR	Annual M/SI ³
Order Cetartiodactyla—Cetacea—Superfamily Mysticeti (baleen whales)						
Family Eschrichtiidae: Gray whale	<i>Eschrichtius robustus</i>	Eastern N Pacific	- , - , N	26,960 (0.05, 25,849, 2016) ..	801	131
Family Balaenidae: Bowhead whale	<i>Balaena mysticetus</i>	Western Arctic	E, D, Y	16,820	161	56
				(0.052,16,100, 2011)		
Family Balaenopteridae (rorquals):						
Fin whale	<i>Balaenoptera physalus</i>	Northeast Pacific ^{4*}	E, D, Y	Unknown	UND	0.6
Humpback whale	<i>Megaptera novaeangliae</i>	Western N Pacific*	E, D, Y	1,107 (0.3, 865, 2006)	3	2.8
Minke whale	<i>Balaenoptera acutorostrata</i>	Alaska ^{4*}	- , - , N	Unknown	UND	0
Superfamily Odontoceti (toothed whales, dolphins, and porpoises)						
Family Delphinidae:						
Beluga whale	<i>Delphinapterus leucas</i>	Beaufort Sea ⁴	- , - , N	39,258 (0.229, N/A, 1992)	UND	104
		Eastern Chukchi	- , - , N	13,305 (0.51, 8,875, 2017)	178	55
Killer whale	<i>Orcinus orca</i>	Alaska resident	- , - , N	2,347 c (N/A, 2347, 2012)	24	1
Narwhal	<i>Monodon Monoceros</i>	Unidentified ^{4*}	- , - , N	Unknown	UND	0
Family Phocoenidae (porpoises):						
Harbor Porpoise	<i>Phocoena phocoena</i>	Bering Sea ^{4*}	- , - , Y	Unknown	UND	0.4
Order Carnivora—Superfamily Pinnipedia						
Family Phocidae (earless seals):						
Bearded Seal	<i>Erignathus barbatus</i>	Beringia ^{4*}	T, D, Y	Unknown	UND	6,709
Ribbon Seal	<i>Histriophoca fasciata</i>	Unidentified*	- , - , N	184,687 (see SAR, 163,086, 2013).	9,785	163
				Unknown	5,100	6,459
Ringed Seal	<i>Pusa hispida</i>	Arctic	T, D, Y	461,625 (see SAR, 423,237, 2013).	25,394	5,254
Spotted Seal	<i>Phoca largha</i>	Bering	- , - , N			

* Stocks marked with an asterisk are addressed in further detail in the text below.

¹ Endangered Species Act (ESA) status: Endangered (E), Threatened (T)/MMPA status: Depleted (D). A dash (-) indicates that the species is not listed under the ESA or designated as depleted under the MMPA. Under the MMPA, a strategic stock is one for which the level of direct human-caused mortality exceeds PBR or which is determined to be declining and likely to be listed under the ESA within the foreseeable future. Any species or stock listed under the ESA is automatically designated under the MMPA as depleted and as a strategic stock.

² NMFS marine mammal stock assessment reports online at: www.nmfs.noaa.gov/pr/sars/. CV is coefficient of variation; N_{min} is the minimum estimate of stock abundance. In some cases, CV is not applicable. For most stocks of killer whales, the abundance values represent direct counts of individually identifiable animals; therefore there is only a single abundance estimate with no associated CV. For certain stocks of pinnipeds, abundance estimates are based upon observations of animals (often pups) ashore multiplied by some correction factor derived from knowledge of the species' (or similar species') life history to arrive at a best abundance estimate; therefore, there is no associated CV. In these cases, the minimum abundance may represent actual counts of all animals ashore.

³ These values, found in NMFS' 2020 SARs (Muto *et al.*, 2021, Carretta *et al.*, 2021), represent annual levels of human-caused mortality plus serious injury from all sources combined (*e.g.*, commercial fisheries, ship strike).

⁴ Abundance estimates for these stocks are not considered current. PBR is therefore considered undetermined for these stocks, as there is no current minimum abundance estimate for use in calculation. We nevertheless present the most recent abundance estimates, as these present the best available information for use in this document.

As indicated above, all 13 species (with 14 managed stocks) in Table 1 could temporally and spatially co-occur with the activity to the degree that take is reasonably likely to occur, and we have authorized it. All species that could potentially occur in the survey areas are included in Table 4 of the IHA application.

A detailed description of the species likely to be affected by the geophysical survey, including brief introductions to the species and relevant stocks as well as available information regarding population trends and threats, and information regarding local occurrence, were provided in the **Federal Register** notice for the proposed IHA (86 FR 28787; May 28, 2021); since that time, we are not aware of any changes in the status of these species or stocks; therefore, detailed descriptions are not

provided here. Please refer to that **Federal Register** notice for these descriptions. Please also refer to NMFS' website (www.nmfs.noaa.gov/pr/species/mammals/) for generalized species accounts.

Unusual Mortality Events (UME)

A UME is defined under the MMPA as "a stranding that is unexpected; involves a significant die-off of any marine mammal population; and demands immediate response." For more information on UMEs, please visit: www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-unusual-mortality-events. Currently recognized UMEs in Alaska involving species under NMFS' jurisdiction include those affecting ice seals in the Bering and Chukchi Seas, and gray whales. Since June 1, 2018,

elevated strandings for bearded, ringed and spotted seals have occurred in the Bering and Chukchi seas in Alaska, with causes undetermined. As of August 5, 2021, there have been 357 recorded seal strandings. For more information, please visit: www.fisheries.noaa.gov/alaska/marine-life-distress/2018-2020-ice-seal-unusual-mortality-event-alaska.

Since January 1, 2019, elevated gray whale strandings have occurred along the west coast of North America from Mexico through Alaska. As of August 5, 2021, there have been a total of 487 whales reported in the event, with approximately 225 dead whales in Mexico, 244 whales in the United States (including 108 in Alaska), and 18 whales in British Columbia, Canada. For the United States, the historical 18-year 5-month average (Jan–May) is 14.8 whales for this same time-period.

Several dead whales have been emaciated with moderate to heavy whale lice (cyamid) loads. Necropsies have been conducted on a subset of whales with additional findings of vessel strike in three whales and entanglement in one whale. In Mexico, 50–55 percent of the free-ranging whales observed in the lagoons in winter have been reported as “skinny” compared to the annual average of 10–12 percent “skinny” whales normally seen. The cause of the UME is as yet undetermined. For more information, please visit: www.fisheries.noaa.gov/national/marine-life-distress/2019-2020-gray-whale-unusual-mortality-event-along-west-coast-and.

Marine Mammal Hearing

Hearing is the most important sensory modality for marine mammals

underwater, and exposure to anthropogenic sound can have deleterious effects. To appropriately assess the potential effects of exposure to sound, it is necessary to understand the frequency ranges marine mammals are able to hear. Current data indicate that not all marine mammal species have equal hearing capabilities (e.g., Richardson *et al.*, 1995; Wartzok and Ketten, 1999; Au and Hastings, 2008). To reflect this, Southall *et al.*, (2007) recommended that marine mammals be divided into functional hearing groups based on directly measured or estimated hearing ranges on the basis of available behavioral response data, audiograms derived using auditory evoked potential techniques, anatomical modeling, and other data. Note that no direct measurements of hearing ability have

been successfully completed for mysticetes (i.e., low-frequency cetaceans). Subsequently, NMFS’ 2018 Revision to its *Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing* (Technical Guidance) (NMFS, 2018) described generalized hearing ranges for these marine mammal hearing groups. Generalized hearing ranges were chosen based on the approximately 65 decibel (dB) threshold from the normalized composite audiograms, with the exception for lower limits for low-frequency cetaceans where the lower bound was deemed to be biologically implausible and the lower bound from Southall *et al.*, (2007) retained. Marine mammal hearing groups and their associated hearing ranges are provided in Table 2.

TABLE 2—MARINE MAMMAL HEARING GROUPS [NMFS, 2018]

Hearing group	Generalized hearing range *
Low-frequency (LF) cetaceans (baleen whales)	7 Hz to 35 kHz.
Mid-frequency (MF) cetaceans (dolphins, toothed whales, beaked whales, bottlenose whales)	150 Hz to 160 kHz.
High-frequency (HF) cetaceans (true porpoises, <i>Kogia</i> , river dolphins, cephalorhynchid, <i>Lagenorhynchus cruciger</i> & <i>L. australis</i>).	275 Hz to 160 kHz.
Phocid pinnipeds (PW) (underwater) (true seals)	50 Hz to 86 kHz.
Otariid pinnipeds (OW) (underwater) (sea lions and fur seals)	60 Hz to 39 kHz.

* Represents the generalized hearing range for the entire group as a composite (i.e., all species within the group), where individual species’ hearing ranges are typically not as broad. Generalized hearing range chosen based on ~65 dB threshold from normalized composite audiogram, with the exception for lower limits for LF cetaceans (Southall *et al.*, 2007) and PW pinniped (approximation).

The pinniped functional hearing group was modified from Southall *et al.* (2007) on the basis of data indicating that phocid species have consistently demonstrated an extended frequency range of hearing compared to otariids, especially in the higher frequency range (Hemilä *et al.*, 2006; Kastelein *et al.*, 2009; Reichmuth and Holt, 2013).

For more detail concerning these groups and associated frequency ranges, please see NMFS (2018) for a review of available information. Thirteen marine mammal species (nine cetacean and four pinniped (all phocid) species) have the reasonable potential to co-occur with the survey activities. Please refer to Table 1. Of the cetacean species that may be present, five are classified as low-frequency cetaceans (i.e., all mysticete species), three are classified as mid-frequency cetaceans (i.e., all delphinid species), and one is classified as high-frequency cetacean (i.e., harbor porpoise).

Potential Effects of Specified Activities on Marine Mammals and Their Habitat

Detailed descriptions of the potential effects of similar specified activities

have been provided in other recent **Federal Register** notices, including for survey activities using the same methodology and over a similar amount of time, and affecting similar species (e.g., 83 FR 29212, June 22, 2018; 84 FR 14200, April 9, 2019; 85 FR 19580, April 7, 2020). Section VII of UAGI’s application provides a comprehensive discussion of the potential effects of the survey. We have reviewed UAGI’s application and believe it is accurate and complete. No significant new information is available. The effects of underwater noise from UAGI’s geophysical survey have the potential to result in behavioral harassment of marine mammals in the vicinity of the action area. The **Federal Register** notice for the proposed IHA (86 FR 28787; May 28, 2021) included a discussion of the effects of anthropogenic noise on marine mammals, therefore that information is not repeated here; please to the aforementioned notice for that information.

The Estimated Take section includes a quantitative analysis of the number of individuals that are expected to be taken by this activity. The Negligible Impact

Analysis and Determination section considers the potential effects of the specified activity, the Estimated Take section, and the Mitigation section, to draw conclusions regarding the likely impacts of these activities on the reproductive success or survivorship of individuals and how those impacts on individuals are likely to impact marine mammal species or stocks.

Description of Active Acoustic Sound Sources

The notice of proposed IHA provided a brief technical background on sound, on the characteristics of certain sound types, and on metrics used in this proposal inasmuch as the information is relevant to the specified activity and to a discussion of the potential effects of the specified activity on marine mammals found later in this document. Please see that document (86 FR 28787; May 28, 2021) for additional information. For general information on sound and its interaction with the marine environment, please see, e.g., Au and Hastings (2008); Richardson *et al.* (1995); Urick (1983).

Estimated Take

This section provides an estimate of the number of incidental takes for authorization through this IHA, which informed both NMFS' consideration of "small numbers" and the negligible impact determination.

Harassment is the only type of take expected to result from these activities. Except with respect to certain activities not pertinent here, section 3(18) of the MMPA defines "harassment" as any act of pursuit, torment, or annoyance, which (i) has the potential to injure a marine mammal or marine mammal stock in the wild (Level A harassment); or (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering (Level B harassment).

Authorized takes will be by Level B harassment, as use of seismic airguns may result, either directly or as a result of TTS, in disruption of behavioral patterns of marine mammals. The mitigation and related monitoring measures are expected to minimize the severity of such taking to the extent practicable. Moreover, based on the nature of the activity and the anticipated effectiveness of the mitigation measures (*i.e.*, implementation of extended shutdown distances for certain species)—discussed in detail below in the Mitigation section—Level A harassment is neither anticipated nor authorized.

As described previously, no mortality is anticipated or authorized for this

activity. Below we describe how the take is estimated.

Generally speaking, we estimate take by considering: (1) Acoustic thresholds above which NMFS believes the best available science indicates marine mammals will be behaviorally harassed or incur some degree of permanent hearing impairment; (2) the area or volume of water that will be ensonified above these levels in a day; (3) the density or occurrence of marine mammals within these ensonified areas; and, (4) and the number of days of activities. We note that while these basic factors can contribute to a basic calculation to provide an initial prediction of takes, additional information that can qualitatively inform take estimates is also sometimes available (*e.g.*, previous monitoring results or average group size). Below, we describe the factors considered here in more detail and present the take estimate.

Acoustic Thresholds

NMFS recommends the use of acoustic thresholds that identify the received level of underwater sound above which exposed marine mammals would be reasonably expected to be behaviorally harassed (equated to Level B harassment) or to incur Permanent Threshold Shift (PTS) of some degree (equated to Level A harassment).

Level B Harassment for non-explosive sources—Though significantly driven by received level, the onset of behavioral disturbance from anthropogenic noise exposure is also informed to varying degrees by other factors related to the source (*e.g.*, frequency, predictability,

duty cycle), the environment (*e.g.*, bathymetry), the receiving animals (hearing, motivation, experience, demography, behavioral context), and the distance between the sound source and the animal, and can be difficult to predict (Southall *et al.*, 2007, Ellison *et al.*, 2012). NMFS uses a generalized acoustic threshold based on received level to estimate the onset of behavioral harassment. NMFS predicts that marine mammals may be behaviorally harassed (*i.e.*, Level B harassment) when exposed to underwater anthropogenic noise above received levels 160 dB re 1 µPa (rms) for the impulsive sources (*i.e.*, seismic airguns) evaluated here.

Level A harassment for non-explosive sources—NMFS' Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (Version 2.0) (Technical Guidance, 2018) identifies dual criteria to assess auditory injury (Level A harassment) to five different marine mammal groups (based on hearing sensitivity) as a result of exposure to noise from two different types of sources (impulsive or non-impulsive). UAGI's seismic survey includes the use of impulsive sources (seismic airgun).

These thresholds are provided in Table 3 below. The references, analysis, and methodology used in the development of the thresholds are described in NMFS 2018 Technical Guidance, which may be accessed at <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-acoustic-technical-guidance>.

TABLE 3—THRESHOLDS IDENTIFYING THE ONSET OF PERMANENT THRESHOLD SHIFT

Hearing group	PTS onset acoustic thresholds* (received level)	
	Impulsive	Non-impulsive
Low-Frequency (LF) Cetaceans	Cell 1: $L_{pk,flat}$: 219; dB; $L_{E,LF,24h}$: 183 dB	Cell 2: $L_{E,LF,24h}$: 199 dB.
Mid-Frequency (MF) Cetaceans	Cell 3: $L_{pk,flat}$: 230 dB; $L_{E,MF,24h}$: 185 dB	Cell 4: $L_{E,MF,24h}$: 198 dB.
High-Frequency (HF) Cetaceans	Cell 5 $L_{pk,flat}$: 202 dB; $L_{E,HF,24h}$: 155 dB	Cell 6: $L_{E,HF,24h}$: 173 dB.
Phocid Pinnipeds (PW) (Underwater)	Cell 7: $L_{pk,flat}$: 218 dB; $L_{E,PW,24h}$: 185 dB	Cell 8: $L_{E,PW,24h}$: 201 dB.
Otariid Pinnipeds (OW) (Underwater)	Cell 9: $L_{pk,flat}$: 232 dB; $L_{E,OW,24h}$: 203 dB	Cell 10: $L_{E,OW,24h}$: 219 dB.

* Dual metric acoustic thresholds for impulsive sounds: Use whichever results in the largest isopleth for calculating PTS onset. If a non-impulsive sound has the potential of exceeding the peak sound pressure level thresholds associated with impulsive sounds, these thresholds should also be considered.

Note: Peak sound pressure (L_{pk}) has a reference value of 1 µPa, and cumulative sound exposure level (L_E) has a reference value of 1µPa²s. In this Table, thresholds are abbreviated to reflect American National Standards Institute standards (ANSI 2013). However, peak sound pressure is defined by ANSI as incorporating frequency weighting, which is not the intent for this Technical Guidance. Hence, the subscript "flat" is being included to indicate peak sound pressure should be flat weighted or unweighted within the generalized hearing range. The subscript associated with cumulative sound exposure level thresholds indicates the designated marine mammal auditory weighting function (LF, MF, and HF cetaceans, and PW and OW pinnipeds) and that the recommended accumulation period is 24 hours. The cumulative sound exposure level thresholds could be exceeded in a multitude of ways (*i.e.*, varying exposure levels and durations, duty cycle). When possible, it is valuable for action proponents to indicate the conditions under which these acoustic thresholds will be exceeded.

Ensonified Area

Here, we describe operational and environmental parameters of the activity that will feed into identifying the area ensonified above the acoustic thresholds, which include source levels and acoustic propagation modeling.

The acoustic propagation modeling methodologies are described in greater detail in Appendix A of UAGI’s IHA application. The survey will primarily acquire data using the 2-airgun array with a total discharge volume of 1,040 in³ and an approximately 15-second shot interval. During approximately 12 percent of the planned survey tracklines, the 6-airgun, 3,120 in³ array will be used with a 60-second shot interval. All tracklines will be surveyed with a maximum tow depth of 9 m. The modeling assumed an airgun firing pressure of 2,540 psi. Propagation modeling for UAGI’s application follows the approach used by the Lamont-Doherty Earth Observatory (L-DEO) for other, similar IHA applications. L-DEO uses ray tracing for the direct wave traveling from the array to the receiver and its associated source ghost (reflection at the air-water interface in the vicinity of the array), in a constant-velocity half-space (infinite

homogeneous ocean layer, unbounded by a seafloor). To validate the model results, L-DEO measured propagation of pulses from a 36-airgun array at a tow depth of 6 m in the Gulf of Mexico, for deep water (~1,600 m), intermediate water depth on the slope (~600–1,100 m), and shallow water (~50 m) (Tolstoy *et al.*, 2009; Diebold *et al.*, 2010).

L-DEO collected a MCS data set from R/V *Marcus G. Langseth* (with the same 36-airgun array referenced above) on an 8 km streamer in 2012 on the shelf of the Cascadia Margin off of Washington in water up to 200 m deep that allowed Crone *et al.* (2014) to analyze the hydrophone streamer (>1,100 individual shots). These empirical data were then analyzed to determine in situ sound levels for shallow and upper intermediate water depths. These data suggest that modeled radii were 2–3 times larger than the measured radii in shallow water. Similarly, data collected by Crone *et al.* (2017) during a survey off New Jersey in 2014 and 2015 confirmed that in situ measurements collected by R/V *Langseth* hydrophone streamer were 2–3 times smaller than the predicted radii.

L-DEO model results are used to determine the assumed radial distance

to the 160-dB rms threshold for these arrays in deep water (>1,000 m) (down to a maximum water depth of 2,000 m) (see Table 4). Water depths in the project area may be up to 4,000 m, but marine mammals in the region are generally not anticipated to dive below 2,000 m (Costa and Williams, 1999). The radii for intermediate water depths (100–1,000 m) are derived from the deep-water ones by applying a correction factor (multiplication) of 1.5. No survey effort will occur in water depths <100 m.

The area expected to be ensonified was determined by entering the planned survey lines into a GIS and then “buffering” the lines by the applicable 160-dB distance (see Appendix B in IHA application). The resulting ensonified areas were then increased by 25 percent to allow for any necessary additional operations, such as re-surveying segments where data quality was insufficient. This approach assumes that no marine mammals would move away or toward the trackline in response to increasing sound levels before the levels reach the threshold as R/V *Sikuliaq* approaches.

TABLE 4—PREDICTED RADIAL DISTANCES TO ISOPLETHS CORRESPONDING TO LEVEL B HARASSMENT THRESHOLD

Source and volume	Tow depth (m)	Water depth (m)	Level B harassment zone (m)
6 airgun array; 3,120 in ³	9	>1,000 100–1,000	¹ 4,640 ³ 6,960
2 airgun array; 1,040 in ³	9	>1,000 100–1,000	¹ 1,604 ² 2,406

¹ Distance based on L-DEO model results.

² Based on L-DEO model results with 1.5x correction factor applied.

Predicted distances to Level A harassment isopleths, which vary based on marine mammal hearing groups, were calculated based on L-DEO modeling performed using the NUCLEUS source modeling software program and the NMFS User Spreadsheet, described below. The acoustic thresholds for impulsive sounds (*e.g.*, airguns) contained in the Technical Guidance were presented as dual metric acoustic thresholds using both the cumulative sound exposure level) SEL_{cum} and peak sound pressure metrics (NMFS 2018). As dual metrics, NMFS considers onset of PTS (Level A harassment) to have occurred when either one of the two metrics is exceeded (*i.e.*, metric resulting in the largest isopleth). The SEL_{cum} metric considers both level and duration of exposure, as well as auditory weighting

functions by marine mammal hearing group. In recognition of the fact that the requirement to calculate Level A harassment ensonified areas could be more technically challenging to predict due to the duration component and the use of weighting functions in the new SEL_{cum} thresholds, NMFS developed an optional User Spreadsheet that includes tools to help predict a simple isopleth that can be used in conjunction with marine mammal density or occurrence to facilitate the estimation of take numbers.

The values for SEL_{cum} and peak Sound Pressure Level (SPL) were derived from calculating the modified far-field signature. The farfield signature is often used as a theoretical representation of the source level. To compute the farfield signature, the source level is estimated at a large

distance below the array (*e.g.*, 9 km), and this level is back projected mathematically to a notional distance of 1 m from the array’s geometrical center. However, when the source is an array of multiple airguns separated in space, the source level from the theoretical farfield signature is not necessarily the best measurement of the source level that is physically achieved at the source (Tolstoy *et al.*, 2009). Near the source (at short ranges, distances <1 km), the pulses of sound pressure from each individual airgun in the source array do not stack constructively, as they do for the theoretical farfield signature. The pulses from the different airguns spread out in time such that the source levels observed or modeled are the result of the summation of pulses from a few airguns, not the full array (Tolstoy *et al.*, 2009). At larger distances, away from

the source array center, sound pressure of all the airguns in the array stack coherently, but not within one time sample, resulting in smaller source levels (a few dB) than the source level derived from the farfield signature. Because the farfield signature does not take into account the large array effect near the source and is calculated as a point source, the modified farfield signature is a more appropriate measure of the sound source level for distributed sound sources, such as airgun arrays. The acoustic modeling methodology as used for estimating Level B harassment distances with a small grid step of 1 m in both the inline and depth directions. The propagation modeling takes into account all airgun interactions at short distances from the source, including interactions between subarrays, which are modeled using the NUCLEUS software to estimate the notional signature and MATLAB software to calculate the pressure signal at each mesh point of a grid.

In order to more realistically incorporate the Technical Guidance’s weighting functions over the seismic array’s full acoustic band, unweighted spectrum data (modeled in 1 Hz bands) were used to make adjustments (dB) to the unweighted spectrum levels, by frequency, according to the weighting functions for each relevant marine mammal hearing group. These adjusted/weighted spectrum levels were then converted to pressures (μPa) in order to integrate them over the entire broadband spectrum, resulting in broadband weighted source levels by hearing group that could be directly incorporated within the User Spreadsheet (*i.e.*, to override the Spreadsheet’s more simple weighting factor adjustment). Using the User Spreadsheet’s “safe distance” methodology for mobile sources (described by Sivle *et al.*, 2014) with the hearing group-specific weighted source levels, and inputs assuming spherical spreading propagation and source velocities and shot intervals specific to

the planned survey, potential radial distances to auditory injury zones were then calculated for SEL_{cum} thresholds. For full detail of the modeling methodology used for estimating distance to Level A harassment peak pressure and cumulative SEL criteria, please see Appendix A of UAGI’s application.

Inputs to the User Spreadsheets in the form of estimated source levels are shown in Appendix A of UAGI’s application. User Spreadsheets used by UAGI to estimate distances to Level A harassment isopleths for the airgun arrays are also provided in Appendix A of the application. Outputs from the User Spreadsheets in the form of estimated distances to Level A harassment isopleths for the survey are shown in Table 5. As described above, NMFS considers onset of PTS (Level A harassment) to have occurred when either one of the dual metrics (SEL_{cum} and Peak SPL_{flat}) is exceeded (*i.e.*, metric resulting in the largest isopleth).

TABLE 5—MODELED RADIAL DISTANCES (m) TO ISOPLETHS CORRESPONDING TO LEVEL A HARASSMENT THRESHOLDS

Source (volume)	Threshold	Level A harassment zone (m)			
		LF cetaceans	MF cetaceans	HF cetaceans	Phocids
6-airgun array (3,120 in ³)	SEL _{cum}	51	0	0	0
	Peak	30	7	212	34
2-airgun array (1,040 in ³)	SEL _{cum}	17	0	0	0
	Peak	10	3	73	12

Note that because of some of the assumptions included in the methods used (*e.g.*, stationary receiver with no vertical or horizontal movement in response to the acoustic source), isopleths produced may be overestimates to some degree, which will ultimately result in some degree of overestimation of Level A harassment. However, these tools offer the best way to predict appropriate isopleths when more sophisticated modeling methods are not available. NMFS continues to develop ways to quantitatively refine these tools and will qualitatively address the output where appropriate. For mobile sources, such as this seismic survey, the User Spreadsheet predicts the closest distance at which a stationary animal would not incur PTS if the sound source traveled by the animal in a straight line at a constant speed.

Auditory injury is unlikely to occur for mid-frequency and low-frequency cetaceans given very small modeled zones of injury for those species (all estimated zones less than 10 m for mid-

frequency cetaceans, up to a maximum of 51 m for low-frequency cetaceans and 34 m for phocid pinnipeds), in context of distributed source dynamics. Similarly, for high-frequency cetaceans, the maximum modeled injury zone for the low-energy array (88 percent of survey effort) is 73 m and auditory injury would be unlikely to occur during use of that array. The source level of the array is a theoretical definition assuming a point source and measurement in the far-field of the source (MacGillivray, 2006). As described by Caldwell and Dragoset (2000), an array is not a point source, but one that spans a small area. In the far-field, individual elements in arrays will effectively work as one source because individual pressure peaks will have coalesced into one relatively broad pulse. The array can then be considered a “point source.” For distances within the near-field, *i.e.*, approximately 2–3 times the array dimensions, pressure peaks from individual elements do not arrive simultaneously because the observation point is not equidistant

from each element. The effect is destructive interference of the outputs of each element, so that peak pressures in the near-field will be significantly lower than the output of the largest individual element. Here, the estimated Level A harassment isopleth distances would in all cases (other than for high-frequency cetaceans) be expected to be within the near-field of the array where the definition of source level breaks down. Therefore, actual locations within this distance of the array center where the sound level exceeds relevant harassment criteria would not necessarily exist.

In consideration of the received sound levels in the near-field as described above, we expect the potential for Level A harassment of low- and mid-frequency cetaceans and phocid pinnipeds to be de minimis, even before the likely moderating effects of aversion and/or other compensatory behaviors (*e.g.*, Nachtigall *et al.*, 2018) are considered. A similar conclusion may be drawn for high-frequency cetaceans relative to use of the low-energy airgun

array. We do not believe that Level A harassment is a likely outcome for any low- or mid-frequency cetacean or phocid pinniped and are not authorizing any Level A harassment for these species. For high-frequency cetaceans, the larger estimated Level A harassment zone associated with the high-energy array will be present for only 12 percent of total survey effort, and given the expected rarity of occurrence for harbor porpoise, no incidents of Level A harassment are expected.

Marine Mammal Occurrence

Information about the presence, density, and group dynamics of marine mammals that informs the take calculations was provided in our notice of proposed IHA (86 FR 28787; May 28, 2021). Information that has remained unchanged is not reprinted here. Density values are shown in Table 6.

The bowhead whale density value described in the notice of proposed IHA (86 FR 28787; May 28, 2021) was correct; however, the incorrect units were used. The value reported in the notice of proposed IHA (0.0124 whales/km²) would correctly be stated as 0.0124 whales/100 km², and the corrected density is used here.

TABLE 6—DENSITY VALUES USED FOR TAKE ANALYSIS, CALCULATED BY UAGI

Species	Density (individuals/km ²)
Bowhead whale	0.000124
Gray whale	0
Fin whale	0
Humpback whale	0
Minke whale	0
Beluga whale	0.0255
Killer whale	Unknown
Narwhal	Unknown
Harbor porpoise	Unknown
Bearded seal	0.0332
Ribbon seal	0.0677
Ringed seal	0.376
Spotted seal	0.0007

Take Calculation and Estimation

Here we describe how the information provided above is brought together to produce a quantitative take estimate. In order to estimate the number of marine mammals predicted to be exposed to sound levels that would result in Level A or Level B harassment, radial distances from the airgun array to predicted isopleths corresponding to the Level A harassment and Level B harassment thresholds are calculated, as described above. Those radial distances are then used to calculate the area(s) around the airgun array predicted to be ensonified to sound levels that exceed the Level A and Level B harassment thresholds. The distance for the 160-dB threshold (based on L-DEO model results) was used to draw a buffer around every transect line in GIS to

determine the total ensonified area in each depth category. Estimated incidents of exposure above Level A and Level B harassment criteria are presented in Table 7. As noted previously, UAGI has added 25 percent in the form of operational days, which is equivalent to adding 25 percent to the line-kilometers to be surveyed. This accounts for the possibility that additional operational days are required, and is included in the estimates of actual exposures.

The number of individual marine mammals potentially exposed to airgun sounds with received levels ≥160 dB re 1 μPa_{rms} (Level B) was estimated following NSF's take calculation method by multiplying the estimated densities by the total area expected to be ensonified above the Level threshold. The total ensonified area was multiplied by 25 percent to account for any necessary additional operations, such as re-surveying segments where data quality was insufficient. This approach assumes that no marine mammals would move away or toward the trackline in response to increasing sound levels before the levels reach the threshold as R/V *Sikuliq* approaches. This value was then multiplied by the estimated densities for each species to produce estimated Level B takes. Given the location of the survey being far north in the Arctic, we expect that the density values, and thus estimated take numbers, are conservative estimates of what is likely to be encountered during the survey.

TABLE 7—ESTIMATED TAKING BY LEVEL A AND LEVEL B HARASSMENT, AND PERCENTAGE OF POPULATION

Species	Stock ¹	Estimated Level B harassment	Estimated Level A harassment	Authorized Level B harassment	Authorized Level A harassment	Total take	Percent of stock ¹
Bowhead whale	Western Arctic	3	0	3	0	3	0.02
Humpback whale ²	WN Pacific	0	0	2	0	2	0.01
Fin whale ^{2,4}	NE Pacific	0	0	2	0	2	0.18
Gray whale ²	EN Pacific	0	0	2	0	2	0.01
Minke whale ^{2,4}	Alaska	0	0	2	0	2	0.01
Beluga whale	Beaufort Sea	696	1	697	0	697	1.33
	Eastern Chukchi						
Killer whale ²	Alaska Resident	0	0	6	0	6	0.20
Narwhal ^{3,4}	Unidentified	0	0	2	0	2	n/a
Harbor porpoise ^{2,4}	Bering Sea	0	0	2	0	2	0.04
Bearded seal ⁵	Beringia	900	6	907	0	907	0.73
Ringed seal ⁵	Arctic	10,198	70	10,269	0	10,269	5.99
Spotted seal	Bering	19	0	19	0	19	0.00
Ribbon seal	Unidentified	1,836	13	1,849	0	1,849	1.00

¹ In most cases, where multiple stocks are being affected, for the purposes of calculating the percentage of the stock impacted, the take is being analyzed as if all authorized takes occurred within each stock. Where necessary, additional discussion is provided in the "Small Numbers Analysis" section.

² UAGI requests authorization of gray whale, humpback whale, fin whale, minke whale, killer whale, and harbor porpoise take equivalent to exposure of one group (Clarke *et al.*, 2016; Clarke *et al.*, 2017; Clarke *et al.*, 2018; Clarke *et al.*, 2019).

³ UAGI requests authorization of two takes of narwhals.

⁴ As noted in Table 1, there is no estimate of abundance available for these species. See "Small Numbers Analysis" section for further discussion.

⁵ Due to rounding, the total estimated Level B harassment does not equal the sum of Level A harassment and Level B harassment.

Although gray whales, fin whales, humpback whales, minke whales, narwhals and harbor porpoises are not expected to occur this far north in the Arctic, we agree with NSF that there is possibility that this activity might encounter these species and thus a conservative number of takes has been authorized based on average group size from yearly Aerial Surveys of Arctic Marine Mammals (ASAMM) (Clark *et al.*, 2016, 2017, 2018, 2019). As described previously in the Changes from the Proposed IHA to Final IHA section, errors in take estimate calculations have been corrected from the notice of proposed IHA (84 FR 18787; May 28, 2021) as shown in Table 7. These changes were made after identifying that the original estimated take numbers used the incorrect Level A harassment ensoufied areas in addition to doubling the estimated exposures within the Level A harassment zone. These corrected, authorized take numbers presented here are either equal to or smaller than those proposed for authorization.

Mitigation

In order to issue an IHA under section 101(a)(5)(D) of the MMPA, NMFS must set forth the permissible methods of taking pursuant to the activity, and other means of effecting the least practicable impact on the species or stock and its habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of the species or stock for taking for certain subsistence uses. NMFS regulations require applicants for incidental take authorizations to include information about the availability and feasibility (economic and technological) of equipment, methods, and manner of conducting the activity or other means of effecting the least practicable adverse impact upon the affected species or stocks and their habitat (50 CFR 216.104(a)(11)).

In evaluating how mitigation may or may not be appropriate to ensure the least practicable adverse impact on species or stocks and their habitat, as well as subsistence uses where applicable, we carefully consider two primary factors:

(1) The manner in which, and the degree to which, the successful implementation of the measure(s) is expected to reduce impacts to marine mammals, marine mammal species or stocks, and their habitat, as well as subsistence uses. This considers the nature of the potential adverse impact being mitigated (likelihood, scope, range). It further considers the likelihood that the measure will be

effective if implemented (probability of accomplishing the mitigating result if implemented as planned), the likelihood of effective implementation (probability implemented as planned), and;

(2) The practicability of the measures for applicant implementation, which may consider such things as cost and impact on operations.

In order to satisfy the MMPA's least practicable adverse impact standard, NMFS has evaluated a suite of basic mitigation protocols for seismic surveys that are required regardless of the status of a stock. Additional or enhanced protections may be required for species whose stocks are in particularly poor health and/or are subject to some significant additional stressor that lessens that stock's ability to weather the effects of the specified activities without worsening its status. We reviewed seismic mitigation protocols required or recommended elsewhere (*e.g.*, HESS, 1999; DOC, 2013; IBAMA, 2018; Kyhn *et al.*, 2011; JNCC, 2017; DEWHA, 2008; BOEM, 2016; DFO, 2008; GHFS, 2015; MMOA, 2016; Nowacek *et al.*, 2013; Nowacek and Southall, 2016), recommendations received during public comment periods for previous actions, and the available scientific literature. We also considered recommendations given in a number of review articles (*e.g.*, Weir and Dolman, 2007; Compton *et al.*, 2008; Parsons *et al.*, 2009; Wright and Cosentino, 2015; Stone, 2015b). This exhaustive review and consideration of public comments regarding previous, similar activities has led to development of the protocols included here.

Due to the use of high- and low-energy airgun arrays used within this survey, two separate mitigation protocols are required for use throughout the activity depending on which array is in use (Table 8).

Vessel-Based Visual Mitigation Monitoring

Visual monitoring requires the use of trained observers (herein referred to as visual Protected Species Observers (PSOs)) to scan the ocean surface for the presence of marine mammals. The area to be scanned visually includes primarily the exclusion zone (EZ), within which observation of certain marine mammals requires shutdown of the acoustic source, but also a buffer zone. The buffer zone means an area beyond the EZ to be monitored for the presence of marine mammals that may enter the EZ. During pre-clearance monitoring (*i.e.*, before ramp-up begins), the buffer zone also acts as an extension of the EZ in that observations of marine

mammals within the buffer zone would also prevent airgun operations from beginning (*i.e.*, ramp-up). The standard EZ is 500 m from the edges of the airgun array for high-energy surveys and 100 m for low-energy surveys. For high-energy surveys, the buffer zone encompasses the area at and below the sea surface from the edge of the 0–500 m EZ, out to a radius of 1,000 m from the edges of the airgun array (500–1,000 m). For low-energy surveys, the buffer zone encompasses the area at and below the sea surface from the edge of the 0–100 m EZ, out to a radius of 200 m from the edges of the airgun array (100–200 m).

Visual monitoring of the EZ and buffer zones is intended to establish and, when visual conditions allow, maintain zones around the sound source that are clear of marine mammals, thereby reducing or eliminating the potential for injury and minimizing the potential for more severe behavioral reactions for animals occurring closer to the vessel. Visual monitoring of the buffer zone is intended to (1) provide additional protection to naïve marine mammals that may be in the area during pre-clearance, and (2) during airgun use, aid in establishing and maintaining the EZ by alerting the visual observer and crew of marine mammals that are outside of, but may approach and enter, the EZ.

UAGI must use dedicated, trained, NMFS-approved PSOs. The PSOs must have no tasks other than to conduct observational effort, record observational data, and communicate with and instruct relevant vessel crew with regard to the presence of marine mammals and mitigation requirements. PSO resumes shall be provided to NMFS for approval.

At least one of the visual PSOs aboard the vessel must have a minimum of 90 days at-sea experience working in the roles, with no more than 18 months elapsed since the conclusion of the at-sea experience. One visual PSO with such experience shall be designated as the lead for the entire protected species observation team. The lead PSO shall serve as primary point of contact for the vessel operator and ensure all PSO requirements per the IHA are met. To the maximum extent practicable, the experienced PSOs should be scheduled to be on duty with those PSOs with appropriate training but who have not yet gained relevant experience.

During survey operations (*e.g.*, any day on which use of the acoustic source is planned to occur, and whenever the acoustic source is in the water, whether activated or not), a minimum of two visual PSOs must be on duty and conducting visual observations at all

times during daylight hours (*i.e.*, from 30 minutes prior to sunrise through 30 minutes following sunset). Visual monitoring of the EZ and buffer zone must begin no less than 30 minutes prior to ramp-up and must continue until one hour after use of the acoustic source ceases or until 30 minutes past sunset. Visual PSOs shall coordinate to ensure 360° visual coverage around the vessel from the most appropriate observation posts, and shall conduct visual observations using binoculars and the naked eye while free from distractions and in a consistent, systematic, and diligent manner.

PSOs shall establish and monitor the EZ and buffer zone. These zones shall be based upon the radial distance from the edges of the acoustic source (rather than being based on the center of the array or around the vessel itself). During use of the acoustic source (*i.e.*, anytime airguns are active, including ramp-up), detections of marine mammals within the buffer zone (but outside the EZ) shall be communicated to the operator to prepare for the potential shutdown of the acoustic source.

During use of the airgun (*i.e.*, anytime the acoustic source is active, including ramp-up), detections of marine mammals within the buffer zone (but outside the EZ) should be communicated to the operator to prepare for the potential shutdown of the acoustic source. Visual PSOs will immediately communicate all observations to the on-duty acoustic PSO(s), including any determination by the PSO regarding species identification, distance, and bearing and the degree of confidence in the determination. Any observations of marine mammals by crew members shall be relayed to the PSO team. During good conditions (*e.g.*, daylight hours; Beaufort sea state (BSS) 3 or less), visual PSOs shall conduct observations when the acoustic source is not operating for comparison of sighting rates and behavior with and without use of the acoustic source and between acquisition periods, to the maximum extent practicable.

Visual PSOs may be on watch for a maximum of four consecutive hours followed by a break of at least one hour between watches and may conduct a maximum of 12 hours of observation per 24-hour period. Combined observational duties (visual and acoustic but not at same time) may not exceed 12 hours per 24-hour period for any individual PSO.

Establishment of Exclusion and Buffer Zones

An EZ is a defined area within which occurrence of a marine mammal triggers

mitigation action intended to reduce the potential for certain outcomes, *e.g.*, auditory injury, disruption of behavioral patterns. The PSOs would establish a minimum EZ with a 500- or 100-m radius, during use of the high-energy and low-energy arrays, respectively, for all species except bowhead whales. The EZ would be based on radial distance from the edge of the airgun array (rather than being based on the center of the array or around the vessel itself).

The EZs are intended to be precautionary in the sense that they would be expected to contain sound exceeding the injury criteria for all cetacean hearing groups, (based on the dual criteria of SEL_{cum} and peak SPL), while also providing a consistent, reasonably observable zone within which PSOs would typically be able to conduct effective observational effort. Additionally, the EZs are expected to minimize the likelihood that marine mammals will be exposed to levels likely to result in more severe behavioral responses. Although significantly greater distances may be observed from an elevated platform under good conditions, we believe that these distances are likely regularly attainable for PSOs using the naked eye during typical conditions.

An extended EZ of 1,500/500 m must be implemented for all bowhead whales during high-energy and low-energy survey effort, respectively, because of their importance to subsistence hunters and protected status. No buffer of this extended EZ is required.

Pre-Clearance and Ramp-Up

Ramp-up (sometimes referred to as “soft start”) means the gradual and systematic increase of emitted sound levels from an airgun array. Ramp-up begins by first activating a single airgun of the smallest volume, followed by doubling the number of active elements in stages until the full complement of an array’s airguns are active. Each stage should be approximately the same duration, and the total duration should not be less than approximately 20 minutes for high-energy airgun arrays. Ramp-up for the low-energy array, which includes only two elements, may be shorter. The intent of pre-clearance observation (30 minutes) is to ensure no protected species are observed within the buffer zone prior to the beginning of ramp-up. During pre-clearance is the only time observations of protected species in the buffer zone would prevent operations (*i.e.*, the beginning of ramp-up). The intent of ramp-up is to warn protected species of pending seismic operations and to allow sufficient time for those animals to leave

the immediate vicinity. A ramp-up procedure, involving a step-wise increase in the number of airguns firing and total array volume until all operational airguns are activated and the full volume is achieved, is required at all times as part of the activation of the acoustic source. All operators must adhere to the following pre-clearance and ramp-up requirements:

- The operator must notify a designated PSO of the planned start of ramp-up as agreed upon with the lead PSO; the notification time should not be less than 60 minutes prior to the planned ramp-up in order to allow the PSOs time to monitor the EZ and buffer zone for 30 minutes prior to the initiation of ramp-up (pre-clearance);
- Ramp-ups shall be scheduled so as to minimize the time spent with the source activated prior to reaching the designated run-in;
 - One of the PSOs conducting pre-clearance observations must be notified again immediately prior to initiating ramp-up procedures and the operator must receive confirmation from the PSO to proceed;
 - Ramp-up may not be initiated if any marine mammal is within the applicable EZ or buffer zone. If a marine mammal is observed within the applicable EZ or the buffer zone during the 30 minute pre-clearance period, ramp-up may not begin until the animal(s) has been observed exiting the zones or until an additional time period has elapsed with no further sightings (15 minutes for small odontocetes and pinnipeds, and 30 minutes for all mysticetes and all other odontocetes, including large delphinids, such as beluga whales and killer whales);
 - Ramp-up shall begin by activating a single airgun of the smallest volume in the array and shall continue in stages by doubling the number of active elements at the commencement of each stage, with each stage of approximately the same duration. Duration shall not be less than 20 minutes for high-energy arrays. The operator must provide information to the PSO documenting that appropriate procedures were followed;
 - PSOs must monitor the relevant EZ and buffer zone during ramp-up, and ramp-up must cease and the source must be shut down upon detection of a marine mammal within the applicable EZ. Once ramp-up has begun, detections of marine mammals within the buffer zone do not require shutdown, but such observation shall be communicated to the operator to prepare for the potential shutdown;
 - Ramp-up may occur at times of poor visibility, including nighttime, if

appropriate acoustic monitoring has occurred with no detections in the 30 minutes prior to beginning ramp-up. Acoustic source activation may only occur at times of poor visibility where operational planning cannot reasonably avoid such circumstances;

- If the acoustic source is shut down for brief periods (*i.e.*, less than 30 minutes) for reasons other than that described for shutdown (*e.g.*, mechanical difficulty), it may be activated again without ramp-up if PSOs have maintained constant visual and/or acoustic observation and no visual or acoustic detections of marine mammals have occurred within the applicable EZ. For any longer shutdown, pre-clearance observation and ramp-up are required. For any shutdown at night or in periods of poor visibility (*e.g.*, BSS 4 or greater), ramp-up is required, but if the shutdown period was brief and constant observation was maintained, pre-clearance watch of 30 minutes is not required; and

- Testing of the acoustic source involving all elements requires ramp-up. Testing limited to individual source elements or strings does not require ramp-up but does require pre-clearance of 30 min.

Shutdown

The shutdown of an airgun array requires the immediate de-activation of all individual airgun elements of the array. Any PSO on duty will have the authority to delay the start of survey

operations or to call for shutdown of the acoustic source if a marine mammal is detected within the applicable EZ. The operator must also establish and maintain clear lines of communication directly between PSOs on duty and crew controlling the acoustic source to ensure that shutdown commands are conveyed swiftly while allowing PSOs to maintain watch. When the airgun array is active (*i.e.*, anytime one or more airguns is active, including during ramp-up) and a marine mammal appears within or enters the applicable EZ, the acoustic source will be shut down. When shutdown is called for by a PSO, the acoustic source will be immediately deactivated and any dispute resolved only following deactivation.

Following a shutdown, airgun activity would not resume until the marine mammal has cleared the EZ. The animal would be considered to have cleared the EZ if it is visually observed to have departed the EZ, or it has not been seen within the EZ for 15 min in the case of small odontocetes and pinnipeds, or 30 min in the case of mysticetes and large odontocetes, including beluga whales and killer whales.

Upon implementation of shutdown, the source may be reactivated after the marine mammal(s) has been observed exiting the applicable EZ (*i.e.*, animal is not required to fully exit the buffer zone where applicable) or following 15 minutes for small odontocetes and pinnipeds, and 30 minutes for

mysticetes and all other odontocetes, including beluga whales and killer whales, with no further observation of the marine mammal(s).

UAGI must implement shutdown if a marine mammal species for which take was not authorized, or a species for which authorization was granted but the takes have been met, approaches the Level A or Level B harassment zones. UAGI must also implement shutdown if any of the following are observed at any distance:

- Any large whale (defined as any mysticete species) with a calf (defined as an animal less than two-thirds the body size of an adult observed to be in close association with an adult); and/or
- An aggregation of six or more large whales.

Passive Acoustic Monitoring (PAM)

NMFS will not require the use of PAM for this activity. PAM would only be applicable to the small portion of the survey (12 percent) using the high-energy array and UAGI has indicated that it would not be practicable to carry the additional monitoring personnel required for implementation of towed PAM. Additionally, species of greatest interest in prescribing use of towed PAM (*e.g.*, sperm whales, beaked whales) are not present in the planned survey area. Further details of this decision are described in the notice of proposed IHA (86 FR 28787; May 28, 2021).

TABLE 8—MITIGATION PROTOCOLS FOR HIGH- AND LOW-ENERGY ARRAYS

Mitigation protocols		
Sources	High-energy (6-airgun array with 3120 in ³ total discharge volume).	Low-energy (2-airgun array with 1040 in ³ total discharge volume).
Visual PSOs	Minimum of 2 NMFS-approved PSOs on duty during daylight hours (30 minutes before sunrise through 30 minutes after sunset); Limit of 2 consecutive hours on watch followed by a break of at least 1 hour; Maximum of 12 hours on watch per 24-hour period.	Minimum of 2 NMFS-approved PSOs on duty during daylight hours (30 minutes before sunrise through 30 minutes after sunset); Limit of 2 consecutive hours on watch followed by a break of at least 1 hour; Maximum of 12 hours on watch per 24-hour period.
Passive acoustic monitoring.	Not Required	Not required.
Exclusion zones	<ul style="list-style-type: none"> • 500 m (all marine mammals) • 1,500 m (Bowhead whales) 	<ul style="list-style-type: none"> • 100 m (all marine mammals). • 500 m (Bowhead whales).
Pre-start clearance	Required; 30-minute clearance period of the following zones: <ul style="list-style-type: none"> • 1,000 m (all marine mammals) • 1,500 m (Bowhead whales) Following detection within zone, animal must be observed exiting or additional period of 15 or 30 minutes.	Required; 30-minute clearance period of the following zones: <ul style="list-style-type: none"> • 200 m (all marine mammals). • 500 m (Bowhead whales). Following detection within zone, animal must be observed exiting or additional period of 15 or 30 minutes.
Ramp-up	Required; duration ≥20 minutes	Required; duration not more than 20 minutes.
Shutdown	Shutdown required for marine mammal detected within defined EZs; Re-start allowed following clearance period of 15 or 30 minutes.	Shutdown required for marine mammal detected within defined EZs; Re-start allowed following clearance period of 15 or 30 minutes.

Vessel Strike Avoidance

1. Vessel operators and crews must maintain a vigilant watch for all protected species and slow down, stop

their vessel, or alter course, as appropriate and regardless of vessel size, to avoid striking any protected species. A visual observer aboard the

vessel must monitor a vessel strike avoidance zone around the vessel (distances stated below). Visual observers monitoring the vessel strike

avoidance zone may be third-party observers (*i.e.*, PSOs) or crew members, but crew members responsible for these duties must be provided sufficient training to (1) distinguish marine mammals from other phenomena, and (2) broadly identify a marine mammal as a bowhead whale, other whale (defined in this context as baleen whales other than bowhead whales), or other marine mammal.

2. Vessel speeds must also be reduced to 10 knots or less when mother/calf pairs, pods, or large assemblages of cetaceans are observed near a vessel.

3. All vessels must maintain a minimum separation distance of 500 m from bowhead whales. If a whale is observed but cannot be confirmed as a species other than a bowhead whale, the vessel operator must assume that it is a bowhead whale and take appropriate action.

4. All vessels must maintain a minimum separation distance of 100 m from all other baleen whales.

5. All vessels must, to the maximum extent practicable, attempt to maintain a minimum separation distance of 50 m from all other marine mammals, with an understanding that at times this may not be possible (*e.g.*, for animals that approach the vessel).

6. When marine mammals are sighted while a vessel is underway, the vessel shall take action as necessary to avoid violating the relevant separation distance (*e.g.*, attempt to remain parallel to the animal's course, avoid excessive speed or abrupt changes in direction until the animal has left the area). If protected species are sighted within the relevant separation distance, the vessel must reduce speed and shift the engine to neutral, not engaging the engines until animals are clear of the area. This does not apply to any vessel towing gear or any vessel that is navigationally constrained.

7. These requirements do not apply in any case where compliance would create an imminent and serious threat to a person or vessel or to the extent that a vessel is restricted in its ability to maneuver and, because of the restriction, cannot comply.

We did not identify any mitigation specifically appropriate for habitat. Marine mammal habitat may be impacted by elevated sound levels, but these impacts would be temporary. Prey species are mobile and are broadly distributed throughout the project area; therefore, marine mammals that may be temporarily displaced during survey activities are expected to be able to resume foraging once they have moved away from areas with disturbing levels of underwater noise. The specified

activity is of relatively short duration (30 days) and the disturbance will be temporary in nature, similar habitat and resources are available in the surrounding area, the impacts to marine mammals and the food sources that they utilize are not expected to cause significant or long-term consequences for individual marine mammals or their populations. No Biologically Important Areas (BIAs), designated critical habitat, or other habitat of known significance would be impacted by the planned activities.

We have carefully evaluated the suite of mitigation measures described here and considered a range of other measures in the context of ensuring that we prescribe the means of effecting the least practicable adverse impact on the affected marine mammal species and stocks and their habitat. Based on our evaluation of the measures, as well as other measures considered by NMFS described above, NMFS has determined that the mitigation measures provide the means of effecting the least practicable impact on the affected species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of such species or stock for subsistence uses (see Unmitigable Adverse Impact Analysis and Determination).

Monitoring and Reporting

In order to issue an IHA for an activity, section 101(a)(5)(D) of the MMPA states that NMFS must set forth requirements pertaining to the monitoring and reporting of such taking. The MMPA implementing regulations at 50 CFR 216.104 (a)(13) indicate that requests for authorizations must include the suggested means of accomplishing the necessary monitoring and reporting that will result in increased knowledge of the species and of the level of taking or impacts on populations of marine mammals that are expected to be present in the action area. Effective reporting is critical both to compliance as well as ensuring that the most value is obtained from the required monitoring.

Monitoring and reporting requirements prescribed by NMFS should contribute to improved understanding of one or more of the following:

- Occurrence of marine mammal species or stocks in the area in which take is anticipated (*e.g.*, presence, abundance, distribution, density).
- Nature, scope, or context of likely marine mammal exposure to potential stressors/impacts (individual or cumulative, acute or chronic), through

better understanding of: (1) Action or environment (*e.g.*, source characterization, propagation, ambient noise); (2) affected species (*e.g.*, life history, dive patterns); (3) co-occurrence of marine mammal species with the action; or (4) biological or behavioral context of exposure (*e.g.*, age, calving or feeding areas).

- Individual marine mammal responses (behavioral or physiological) to acoustic stressors (acute, chronic, or cumulative), other stressors, or cumulative impacts from multiple stressors.

- How anticipated responses to stressors impact either: (1) Long-term fitness and survival of individual marine mammals; or (2) populations, species, or stocks.

- Effects on marine mammal habitat (*e.g.*, marine mammal prey species, acoustic habitat, or other important physical components of marine mammal habitat).

- Mitigation and monitoring effectiveness.

Vessel-Based Visual Monitoring

As described above, PSO observations would take place during daytime airgun operations. During seismic operations, at least five visual PSOs would be based aboard the R/V *Sikuliaq*. Two visual PSOs would be on duty at all time during daytime hours. Monitoring shall be conducted in accordance with the following requirements:

- The operator will work with the selected third-party observer provider to ensure PSOs have all equipment (including backup equipment) needed to adequately perform necessary tasks, including accurate determination of distance and bearing to observed marine mammals.

PSOs must have the following requirements and qualifications:

- PSOs shall be independent, dedicated, trained visual and acoustic PSOs and must be employed by a third-party observer provider;

- PSOs shall have no tasks other than to conduct observational effort, collect data, and communicate with and instruct relevant vessel crew with regard to the presence of protected species and mitigation requirements (including brief alerts regarding maritime hazards);

- PSOs shall have successfully completed an approved PSO training course;

- NMFS must review and approve PSO resumes accompanied by a relevant training course information packet that includes the name and qualifications (*i.e.*, experience, training completed, or educational background) of the instructor(s), the course outline or

syllabus, and course reference material as well as a document stating successful completion of the course;

- NMFS shall have one week to approve PSOs from the time that the necessary information is submitted, after which PSOs meeting the minimum requirements shall automatically be considered approved;

- PSOs must successfully complete relevant training, including completion of all required coursework and passing (80 percent or greater) a written and/or oral examination developed for the training program;

- PSOs must have successfully attained a bachelor's degree from an accredited college or university with a major in one of the natural sciences, a minimum of 30 semester hours or equivalent in the biological sciences, and at least one undergraduate course in math or statistics; and

- The educational requirements may be waived if the PSO has acquired the relevant skills through alternate experience. Requests for such a waiver shall be submitted to NMFS and must include written justification. Requests shall be granted or denied (with justification) by NMFS within one week of receipt of submitted information.

Alternate experience that may be considered includes, but is not limited to (1) secondary education and/or experience comparable to PSO duties; (2) previous work experience conducting academic, commercial, or government-sponsored protected species surveys; or (3) previous work experience as a PSO; the PSO should demonstrate good standing and consistently good performance of PSO duties. Traditional ecological knowledge is also a relevant consideration.

For data collection purposes, PSOs shall use standardized data collection forms, whether hard copy or electronic. PSOs shall record detailed information about any implementation of mitigation requirements, including the distance of animals to the acoustic source and description of specific actions that ensued, the behavior of the animal(s), any observed changes in behavior before and after implementation of mitigation, and if shutdown was implemented, the length of time before any subsequent ramp-up of the acoustic source. If required mitigation was not implemented, PSOs should record a description of the circumstances. At a minimum, the following information must be recorded:

- Vessel names (source vessel and other vessels associated with survey) and call signs;
- PSO names and affiliations;

- Dates of departures and returns to port with port name;

- Date and participants of PSO briefings;

- Dates and times (Greenwich Mean Time) of survey effort and times corresponding with PSO effort;

- Vessel location (latitude/longitude) when survey effort began and ended and vessel location at beginning and end of visual PSO duty shifts;

- Vessel heading and speed at beginning and end of visual PSO duty shifts and upon any line change;

- Environmental conditions while on visual survey (at beginning and end of PSO shift and whenever conditions changed significantly), including BSS and any other relevant weather conditions including cloud cover, fog, sun glare, and overall visibility to the horizon;

- Factors that may have contributed to impaired observations during each PSO shift change or as needed as environmental conditions changed (*e.g.*, vessel traffic, equipment malfunctions); and

- Survey activity information, such as acoustic source power output while in operation, number and volume of airguns operating in the array, tow depth of the array, and any other notes of significance (*i.e.*, pre-clearance, ramp-up, shutdown, testing, shooting, ramp-up completion, end of operations, streamers, etc.).

The following information should be recorded upon visual observation of any protected species:

- Watch status (sighting made by PSO on/off effort, opportunistic, crew, alternate vessel/platform);

- PSO who sighted the animal;

- Time of sighting;

- Vessel location at time of sighting;

- Water depth;

- Direction of vessel's travel (compass direction);

- Direction of animal's travel relative to the vessel;

- Pace of the animal;

- Estimated distance to the animal and its heading relative to vessel at initial sighting;

- Identification of the animal (*e.g.*, genus/species, lowest possible taxonomic level, or unidentified) and the composition of the group if there is a mix of species;

- Estimated number of animals (high/low/best);

- Estimated number of animals by cohort (adults, yearlings, juveniles, calves, group composition, etc.);

- Description (as many distinguishing features as possible of each individual seen, including length, shape, color, pattern, scars or markings, shape and

size of dorsal fin, shape of head, and blow characteristics);

- Detailed behavior observations (*e.g.*, number of blows/breaths, number of surfaces, breaching, spyhopping, diving, feeding, traveling; as explicit and detailed as possible; note any observed changes in behavior);

- Animal's closest point of approach (CPA) and/or closest distance from any element of the acoustic source;

- Platform activity at time of sighting (*e.g.*, deploying, recovering, testing, shooting, data acquisition, other); and

- Description of any actions implemented in response to the sighting (*e.g.*, delays, shutdown, ramp-up) and time and location of the action.

Reporting

A report will be submitted to NMFS within 90 days after the end of the cruise. The report will describe the operations that were conducted and sightings of marine mammals near the operations. The report will provide full documentation of methods, results, and interpretation pertaining to all monitoring. The 90-day report will summarize the dates and locations of seismic operations, and all marine mammal sightings (dates, times, locations, activities, associated seismic survey activities).

The draft report shall also include geo-referenced time-stamped vessel tracklines for all time periods during which airguns were operating. Tracklines should include points recording any change in airgun status (*e.g.*, when the airguns began operating, when they were turned off, or when they changed from full array to single gun or vice versa). GIS files shall be provided in ESRI shapefile format and include the UTC date and time, latitude in decimal degrees, and longitude in decimal degrees. All coordinates shall be referenced to the WGS84 geographic coordinate system. In addition to the report, all raw observational data shall be made available to NMFS. The report must summarize the data collected as described above and in the IHA. A final report must be submitted within 30 days following resolution of any comments on the draft report.

Reporting Injured or Dead Marine Mammals

Discovery of injured or dead marine mammals—In the event that personnel involved in survey activities covered by the authorization discover an injured or dead marine mammal, the UAGI shall report the incident to the Office of Protected Resources (OPR), NMFS, and the NMFS Alaska Regional Stranding Coordinator as soon as feasible. The

report must include the following information:

- Time, date, and location (latitude/longitude) of the first discovery (and updated location information if known and applicable);
- Species identification (if known) or description of the animal(s) involved;
- Condition of the animal(s) (including carcass condition if the animal is dead);
- Observed behaviors of the animal(s), if alive;
- If available, photographs or video footage of the animal(s); and
- General circumstances under which the animal was discovered.

Vessel strike—In the event of a ship strike of a marine mammal by any vessel involved in the activities covered by the authorization, UAGI shall report the incident to OPR, NMFS and to the NMFS Alaska Regional Stranding Coordinator as soon as feasible. The report must include the following information:

- Time, date, and location (latitude/longitude) of the incident;
- Vessel's speed during and leading up to the incident;
- Vessel's course/heading and what operations were being conducted (if applicable);
- Status of all sound sources in use;
- Description of avoidance measures/requirements that were in place at the time of the strike and what additional measure were taken, if any, to avoid strike;
- Environmental conditions (*e.g.*, wind speed and direction, Beaufort sea state, cloud cover, visibility) immediately preceding the strike;
- Species identification (if known) or description of the animal(s) involved;
- Estimated size and length of the animal that was struck;
- Description of the behavior of the animal immediately preceding and following the strike;
- If available, description of the presence and behavior of any other marine mammals present immediately preceding the strike;
- Estimated fate of the animal (*e.g.*, dead, injured but alive, injured and moving, blood or tissue observed in the water, status unknown, disappeared); and
- To the extent practicable, photographs or video footage of the animal(s).

Negligible Impact Analysis and Determination

NMFS has defined negligible impact as an impact resulting from the specified activity that cannot be reasonably expected to, and is not

reasonably likely to, adversely affect the species or stock through effects on annual rates of recruitment or survival (50 CFR 216.103). A negligible impact finding is based on the lack of likely adverse effects on annual rates of recruitment or survival (*i.e.*, population-level effects). An estimate of the number of takes alone is not enough information on which to base an impact determination. In addition to considering estimates of the number of marine mammals that might be "taken" through harassment, NMFS considers other factors, such as the likely nature of any responses (*e.g.*, intensity, duration), the context of any responses (*e.g.*, critical reproductive time or location, migration), as well as effects on habitat, and the likely effectiveness of the mitigation. We also assess the number, intensity, and context of estimated takes by evaluating this information relative to population status. Consistent with the 1989 preamble for NMFS' implementing regulations (54 FR 40338; September 29, 1989), the impacts from other past and ongoing anthropogenic activities are incorporated into this analysis via their impacts on the environmental baseline (*e.g.*, as reflected in the regulatory status of the species, population size and growth rate where known, ongoing sources of human-caused mortality, or ambient noise levels).

To avoid repetition, our analysis applies to all species listed in Table 1, given that NMFS expects the anticipated effects of the planned geophysical survey to be similar in nature. Where there are meaningful differences between species or stocks, or groups of species, in anticipated individual responses to activities, impact of expected take on the population due to differences in population status, or impacts on habitat, NMFS has identified species-specific factors to inform the analysis.

NMFS does not anticipate that injury, serious injury or mortality will occur as a result of UAGI's planned survey, even in the absence of mitigation, and none will be authorized. Similarly, non-auditory physical effects, stranding, and vessel strike are not expected to occur. Although a few incidents of Level A harassment were predicted through the quantitative exposure estimation process (see Estimated Take), NMFS has determined that this is not a realistic result due to the small estimated Level A harassment zones for the species (no greater than approximately 50 m) and the mitigation requirements, and no Level A harassment is authorized. These estimated zones are larger than what would realistically occur, as discussed

in the Estimated Take section. Although no Level A harassment would be expected to occur even absent mitigation, the extended distance exclusion zones for bowhead whales further strengthen this conclusion.

We expect that takes would be in the form of short-term Level B behavioral harassment in the form of temporary avoidance of the area or decreased foraging (if such activity were occurring), reactions that are considered to be of low severity and with no lasting biological consequences (*e.g.*, Southall *et al.*, 2007, Ellison *et al.*, 2012). The number of takes for bowhead whales is 0.02 percent of the population.

Marine mammal habitat may be impacted by elevated sound levels, but these impacts would be temporary. Prey species are mobile and are broadly distributed throughout the project area; therefore, marine mammals that may be temporarily displaced during survey activities are expected to be able to resume foraging once they have moved away from areas with disturbing levels of underwater noise. Because of the relatively short duration (30 days) and temporary nature of the disturbance, the availability of similar habitat and resources in the surrounding area, the impacts to marine mammals and the food sources that they utilize are not expected to cause significant or long-term consequences for individual marine mammals or their populations. No BIAs, designated critical habitat, or other habitat of known significance would be impacted by the planned activities.

Negligible Impact Conclusions

The survey would be of short duration (30 days of seismic operations), and the acoustic "footprint" of the survey would be small relative to the ranges of the marine mammals that would potentially be affected. Sound levels would increase in the marine environment in a relatively small area surrounding the vessel compared to the range of the marine mammals within the survey area. Short term exposures to survey operations are expected to only temporarily affect marine mammal behavior in the form of avoidance, and the potential for longer-term avoidance of important areas is limited. Short term exposures to survey operations are not likely to impact marine mammal behavior, and the potential for longer-term avoidance of important areas is limited.

The mitigation measures are expected to reduce the number and/or severity of takes by allowing for detection of marine mammals in the vicinity of the vessel by visual observers, and by

minimizing the severity of any potential exposures via shutdowns of the airgun array.

NMFS concludes that exposures to marine mammal species and stocks due to UAGI's survey would result in only short-term (temporary and short in duration) effects to individuals exposed, over relatively small areas of the affected animals' ranges. Animals may temporarily avoid the immediate area, but are not expected to permanently abandon the area. Major shifts in habitat use, distribution, or foraging success are not expected. NMFS does not anticipate the authorized take estimates to impact annual rates of recruitment or survival.

In summary and as described above, the following factors primarily support our determination that the impacts resulting from this activity are not expected to adversely affect the species or stock through effects on annual rates of recruitment or survival:

- No Level A harassment, serious injury or mortality is anticipated or authorized;
- The activity is temporary and of relatively short duration (30 days);
- The anticipated impacts of the activity on marine mammals would primarily be temporary behavioral changes in the form of avoidance of the area around the survey vessel;
- Location of the survey is further north in the Arctic Ocean and away from areas where most of the species listed in Table 1 have been observed and is north of summer feeding areas and migratory routes.
- The availability of alternate areas of similar habitat value for marine mammals to temporarily vacate the survey area during the survey to avoid exposure to sounds from the activity;
- The potential adverse effects on fish or invertebrate species that serve as prey species for marine mammals from the survey would be temporary and spatially limited, and impacts to marine mammal foraging would be minimal; and
- The mitigation measures, including visual monitoring, shutdowns, ramp-up, and prescribed measures based on energy size are expected to minimize potential impacts to marine mammals (both amount and severity).

Based on the analysis contained herein of the likely effects of the specified activity on marine mammals and their habitat, and taking into consideration the implementation of the monitoring and mitigation measures, NMFS finds that the total marine mammal take from the activity will have a negligible impact on all affected marine mammal species or stocks.

Small Numbers

As noted above, only small numbers of incidental take may be authorized under sections 101(a)(5)(A) and (D) of the MMPA for specified activities other than military readiness activities. The MMPA does not define small numbers and so, in practice, where estimated numbers are available, NMFS compares the number of individuals taken to the most appropriate estimation of abundance of the relevant species or stock in our determination of whether the take is limited to small numbers of marine mammals. When the predicted number of individuals to be taken is fewer than one third of the species or stock abundance, the take is considered to be of small numbers (see 86 FR 5322, January 19, 2021). Additionally, other qualitative factors may be considered in the analysis, such as the temporal or spatial scale of the activities.

There are several stocks for which there is no currently accepted stock abundance estimate. These include the fin whale Northeast Pacific stock, the minke whale Alaska stock, the narwhal Unidentified stock, the bearded seal Beringia stock, and the ringed seal Arctic stock. In those cases, qualitative factors are used to inform an assessment of whether the likely number of individual marine mammals taken is appropriately considered small. We discuss these in further detail below.

For all other stocks (aside from those without accepted abundance estimates), the authorized take is less than 7 percent of the best available stock abundance, well less than the one-third threshold for exceeding small numbers (and some of those takes may be repeats of the same individual, thus rendering the actual percentage even lower). We also acknowledge that, given the location of the planned survey activity high in the Arctic Ocean, the stock ranges referenced in the SARs do not always fully overlap the area of the planned survey activity. However, given the very small percentage of the best available stock abundance estimates for these species and the likelihood that the numbers of take authorized would be very small relative to any reasonable population abundance estimate, we conclude these numbers are small.

The stock abundance estimates for fin whale, minke whale, narwhal, bearded seal and ringed seal stocks that occur in the surveys area are unknown, according to the latest 2020 SARs (Muto *et al.*, 2021, Carretta *et al.*, 2021). Therefore, we reviewed other scientific information in making our small numbers determinations for these animals. The abundance estimate of

20,000 minke whales was taken from the Northwest Pacific and Okhotsk Sea (IWC 2021). In addition, as noted previously, partial abundance estimates of 1,233 and 2,020 minke whales are available for shelf and nearshore waters between the Kenai Peninsula and Amchitka Pass and for the eastern Bering Sea shelf, respectively. For the minke whale, these partial abundance estimates alone are sufficient to demonstrate that the authorized take number of 2 is of small numbers. The same surveys produced partial abundance estimates of 1,652 and 1,061 fin whales, for the same areas, respectively, which are similarly sufficient to demonstrate that the authorized take number of 2 is small numbers. The bearded seal estimate of 125,000 was estimated for the U.S. portion of the Bering Sea (Boveng *et al.*, 2017) and 155,000 bearded seals for the entire Alaska stock (Cameron *et al.*, 2010). These partial abundance estimates near the survey are sufficient to demonstrate that the authorized take number of 916 seals is small numbers. Similarly, the ringed seal abundance estimate of 171,418 ringed seals was based on a limited sub-sample from the Bering Sea (Conn *et al.*, 2014 in Muto *et al.*, 2020). This minimal abundance estimate for the Alaska region is enough to demonstrate that a take of 10,373 will be small numbers at 6.05 percent of the Bering Sea population. There is no abundance information available for narwhals. However, the take number is sufficiently small (2) that we assume that it is small relative to any reasonable assumption of likely population abundance for the narwhal. Additionally, the survey area encompasses a very small portion of the hypothesized range of the species.

Based on the analysis contained herein of the activity (including the mitigation and monitoring measures) and the anticipated take of marine mammals, NMFS finds that small numbers of marine mammals will be taken relative to the population size of the affected species or stocks.

Unmitigable Adverse Impact Analysis and Determination

In order to issue an IHA, NMFS must find that the specified activity will not have an "unmitigable adverse impact" on the subsistence uses of the affected marine mammal species or stocks by Alaskan Natives. NMFS has defined "unmitigable adverse impact" in 50 CFR 216.103 as an impact resulting from the specified activity: (1) That is likely to reduce the availability of the species to a level insufficient for a harvest to meet subsistence needs by: (i) Causing the

marine mammals to abandon or avoid hunting areas; (ii) Directly displacing subsistence users; or (iii) Placing physical barriers between the marine mammals and the subsistence hunters; and (2) That cannot be sufficiently mitigated by other measures to increase the availability of marine mammals to allow subsistence needs to be met.

The coast and nearshore waters of Alaska are of cultural importance to indigenous peoples for fishing, hunting, gathering, and ceremonial purposes. Marine mammals are legally hunted in Alaskan waters by coastal Alaska Natives. There are seven communities in the North Slope Borough region of Alaska (northwestern and northern Alaska) that harvest seals, including from west to east Point Hope, Point Lay, Wainwright, Utqiagvik, Atkasak, Nuiqsut, and Kaktovik (Ice Seal Committee 2019). Bearded seals are the preferred species to harvest as food and for skin boat coverings, but ringed seals are also commonly taken for food and their blubber (Ice Seal Committee 2019). Ringed seals are typically harvested during the summer and can extend up to 64 km from shore (Stephen R. Braund & Associates 2010). No ribbon seals have been harvested in any of the North Slope Borough communities since the 1960s (Ice Seal Committee 2019). However, the number of seals harvested each year varies considerably.

A subsistence harvest of bowheads and belugas is also practiced by Alaskan Natives, providing nutritional and cultural needs. In 2019, 36 bowhead whales were taken during the Alaskan subsistence hunt (Suydam *et al.*, 2020). Whaling near Utqiagvik occurs during spring (April and May) and autumn, and can continue into November, depending on the quota and conditions. Communities that harvested bowheads during 2019 include Utqiagvik, Gamgell, Kaktovik, Nuiqsut, Point Hope, Point Lay, and Wainwright. Bowhead whales and gray whales are also taken in the aboriginal subsistence hunt in the Russian Federation (Zharikov *et al.*, 2020). During 2019, 135 gray whales and one bowhead whale were harvested at Chukotka.

Beluga whales from the eastern Chukchi Sea stock are an important subsistence resource for residents of the village of Point Lay, adjacent to Kasegaluk Lagoon, and other villages in northwest Alaska. Each year, hunters from Point Lay drive belugas into the lagoon to a traditional hunting location. The beluga whales have been predictably sighted near the lagoon from late June through mid to late July (Suydam *et al.*, 2001). The mean annual number of Beaufort Sea belugas landed

by Alaska Native subsistence hunters in 2011–2015 was 47, and an average of 92 were taken in Canadian waters; the mean annual number of Eastern Chukchi Sea belugas landed by Alaska Native subsistence hunters in 2011–2015 was 67 (Muto *et al.*, 2020).

The survey by UAGI will occur within ~73.5–81.0° N, ~139.5–168° W and over 300 km from the Alaska coastline. Due to the location of the survey being far north in the Arctic and over 200 kilometers from any hunting area or buffer (<http://www.north-slope.org/assets/images/uploads/bowhead%20migration%20map%2021mar03%20distribution.pdf>), no impacts on the availability of marine mammals for subsistence uses are expected to occur. Specifically, based on the survey methods and location planned, there is no reason to believe that there will be any behavioral disturbance of bowhead whales that would also impact their behavior in a manner that would interfere with subsistence use later. Although fishing/hunting would not be precluded in the survey area, a safe distance would need to be kept from R/V *Sikuliaq* and the towed seismic equipment. The principal investigator for the survey presented the action to the Alaska Eskimo Whaling Commission (AEWC) at the July 2020, October 2020, and February 2021 Triannual Meetings. As specifically noted, during the meetings, daily email communications with interested community members would be made from the vessel. Communication may include notice of any unusual marine mammal observations during the survey. Any potential space use conflicts would be further avoided through direct communication with subsistence fishers/hunters during the surveys. Considering the limited time that the planned seismic surveys would take place and the far offshore location of the surveys, no direct interaction with subsistence fishers/hunters would be anticipated. However, UAGI will still be required to remain in constant communication with subsistence fishers/hunters during the surveys.

Based on the description of the specified activity, the measures described to minimize adverse effects on the availability of marine mammals for subsistence purposes, and the mitigation and monitoring measures, NMFS has determined that there will not be an unmitigable adverse impact on subsistence uses from UAGI's activities.

National Environmental Policy Act

In compliance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321 *et seq.*), as implemented by

the regulations published by the Council on Environmental Quality (40 CFR parts 1500–1508), NSF prepared an Environmental Assessment (EA) to consider the direct, indirect and cumulative effects to the human environment resulting from this marine geophysical survey in the Arctic. NSF's EA was made available to the public for review and comment in relation to its suitability for adoption by NMFS in order to assess the impacts to the human environment of issuance of an IHA to UAGI. In compliance with NEPA and CEQ regulations, as well as NOAA Administrative Order 216–2, NMFS has reviewed the NSF's EA, determined it to be sufficient, and adopted that EA and signed a Finding of No Significant Impact (FONSI). NSF's EA is available at www.nsf.gov/geo/oce/envcomp/, and NMFS' FONSI is available at www.fisheries.noaa.gov/action/incidental-take-authorization-lamont-doherty-earth-observatory-marine-geophysical-survey-2.

Endangered Species Act

Section 7(a)(2) of the Endangered Species Act of 1973 (ESA: 16 U.S.C. 1531 *et seq.*) requires that each Federal agency insure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of designated critical habitat. To ensure ESA compliance for the issuance of IHAs, NMFS consults internally whenever we propose to authorize take for endangered or threatened species.

The NMFS OPR ESA Interagency Cooperation Division issued a Biological Opinion under section 7 of the ESA, on the issuance of an IHA to UAGI under section 101(a)(5)(D) of the MMPA by the NMFS OPR Permits and Conservation Division and NSF's funding of the survey. The Biological Opinion concluded that the action is not likely to jeopardize the continued existence of ESA-listed bowhead whales, fin whales, the Western North Pacific population of gray whales, the Mexico DPS and Western North Pacific DPS of humpback whales, bearded seals and ribbon seals, and is not likely to destroy or adversely modify the proposed critical habitat for bearded seals and ringed seals. There is no designated critical habitat in the action area for the other ESA-listed species.

Authorization

As a result of these determinations, NMFS has issued an IHA to UAGI for conducting marine geophysical surveys in the Arctic in August and September,

2021, provided the previously mentioned mitigation, monitoring, and reporting requirements are incorporated.

Dated: August 11, 2021.

Catherine Marzin,

Acting Director, Office of Protected Resources, National Marine Fisheries Service.

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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

Reopening of Solicitation of Nominations for the Marine Debris Foundation Board of Directors

AGENCY: National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (DOC).

ACTION: Reopening of solicitation of nominations.

SUMMARY: The National Oceanic and Atmospheric Administration published a notice in the **Federal Register** on May 19, 2021 seeking nominations of qualified candidates to be considered for appointment as a member of the Marine Debris Foundation Board of Directors (Board). This solicitation of nominations of qualified persons to the Board is hereby reopened.

DATES: Nominations to the Board of Directors for the Marine Debris Foundation must be received in entirety no later than 11:59 p.m. EDT on August 27, 2021. Nomination packages received after this time will not be considered.

ADDRESSES: All nominations should be emailed (recommended) to marinedebris.foundation@noaa.gov with the subject line "Marine Debris Foundation Nomination," or mailed to Caitlin Wessel, Marine Debris Foundation Nomination, c/o NOAA Disaster Response Center, 7344 Ziegler Blvd., Mobile, AL 36608.

FOR FURTHER INFORMATION CONTACT: Caitlin Wessel, Ph.D., Phone 251-222-0276; Email caitlin.wessel@noaa.gov or visit the NOAA Marine Debris Program website at <https://marinedebris.noaa.gov/who-we-are/marine-debris-foundation>.

SUPPLEMENTARY INFORMATION: Refer to the **Federal Register** Notice of May 19, 2021 (86 FR 27070) and the NOAA Marine Debris Program website at <https://marinedebris.noaa.gov/who-we-are/marine-debris-foundation> for the items that are required parts of the nomination package and additional information.

(Authority: Pub. L. 116-224, 112, Dec. 18, 2020, 134 Stat. 1072)

Scott Lundgren,

Director, Office of Response and Restoration, National Ocean Service.

[FR Doc. 2021-17738 Filed 8-17-21; 8:45 am]

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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

[RTID 0648-XB163]

Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to the Palmer Station Pier Replacement Project, Antarctica

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

ACTION: Notice; proposed incidental harassment authorization; request for comments on proposed authorization and possible renewal.

SUMMARY: NMFS has received a request from the National Science Foundation (NSF) for authorization to take marine mammals incidental to the Palmer Station Pier Replacement Project in Anvers Island, Antarctica. Pursuant to the Marine Mammal Protection Act (MMPA), NMFS is requesting comments on its proposal to issue an incidental harassment authorization (IHA) to incidentally take marine mammals during the specified activities. NMFS is also requesting comments on a possible one-time, one-year renewal that could be issued under certain circumstances and if all requirements are met, as described in Request for Public Comments at the end of this notice. NMFS will consider public comments prior to making any final decision on the issuance of the requested MMPA authorizations and agency responses will be summarized in the final notice of our decision.

DATES: Comments and information must be received no later than September 17, 2021.

ADDRESSES: Comments should be addressed to Jolie Harrison, Chief, Permits and Conservation Division, Office of Protected Resources, National Marine Fisheries Service. Written comments should be submitted via email to ITP.Pauline@noaa.gov.

Instructions: NMFS is not responsible for comments sent by any other method, to any other address or individual, or received after the end of the comment

period. Comments, including all attachments, must not exceed a 25-megabyte file size. All comments received are a part of the public record and will generally be posted online at www.fisheries.noaa.gov/permit/incidental-take-authorizations-under-marine-mammal-protection-act without change. All personal identifying information (e.g., name, address) voluntarily submitted by the commenter may be publicly accessible. Do not submit confidential business information or otherwise sensitive or protected information.

FOR FURTHER INFORMATION CONTACT:

Robert Pauline, Office of Protected Resources, NMFS, (301) 427-8401. Electronic copies of the application and supporting documents, as well as a list of the references cited in this document, may be obtained online at: <https://www.fisheries.noaa.gov/permit/incidental-take-authorizations-under-marine-mammal-protection-act>. In case of problems accessing these documents, please call the contact listed above.

SUPPLEMENTARY INFORMATION:

Background

The MMPA prohibits the "take" of marine mammals, with certain exceptions. sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce (as delegated to NMFS) to allow, upon request, the incidental, but not intentional, taking of small numbers of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographical region if certain findings are made and either regulations are issued or, if the taking is limited to harassment, a notice of a proposed incidental take authorization may be provided to the public for review.

Authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s) and will not have an unmitigable adverse impact on the availability of the species or stock(s) for taking for subsistence uses (where relevant). Further, NMFS must prescribe the permissible methods of taking and other "means of effecting the least practicable adverse impact" on the affected species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of the species or stocks for taking for certain subsistence uses (referred to in shorthand as "mitigation"); and requirements pertaining to the mitigation, monitoring and reporting of the takings are set forth.