

2023, and may also provide oral comments during the virtual meeting.

**ADDRESSES:** If you plan to attend the meeting, which will be held by webinar, please register at <https://forms.gle/rVj5WNY4w4Kadqcq6>. Instructions for attending the meeting will be emailed to meeting participants before the meeting occurs. This meeting may be audio recorded for the purposes of generating notes of the meeting. As public comments will be made publicly available, participants and public commenters are urged not to provide personally identifiable information (PII) at this meeting. Participation in the meeting, in person, by web conference, or by telephone constitutes consent to the audio recording.

**FOR FURTHER INFORMATION CONTACT:**

Celia Barroso, NMFS West Coast Region, 562-432-1850, [celia.barroso@noaa.gov](mailto:celia.barroso@noaa.gov).

**SUPPLEMENTARY INFORMATION:** The 7th Meeting of the Joint IATTC-WCPFC NC Working Group (JWG) met July 12-14, 2022, and was unable to reach consensus on management objectives for PBF and metrics to measure whether a proposed harvest strategy would meet those management objectives. Additionally, the International Scientific Committee on Tuna and Tuna-like Species in the North Pacific Ocean (ISC) recommended that, to proceed with the development of a management strategy evaluation (MSE) for PBF, the JWG consider refining the set of candidate reference points and harvest control rules recommended in 2019. This April 19 meeting is being held to prepare for anticipated discussions at the 2023 meeting of the JWG regarding scenarios for evaluation in the MSE to support development of potential harvest strategies for PBF. This is expected to include the objectives and metrics to evaluate the effectiveness of those scenarios.

**PBF U.S. Stakeholder Meeting Topic**

The agenda for this meeting will be distributed to participants in advance of the meeting. The meeting agenda will include a discussion on preferences for management objectives for PBF, metrics to measure how potential future harvest strategies for PBF meet those objectives, candidate reference points, and candidate harvest control rules.

**Special Accommodations**

Requests for sign language interpretation or other auxiliary aids should be indicated when registering for the meeting (see **ADDRESSES**) by April 12, 2023.

*Authority:* 16 U.S.C. 951 *et seq.*; 16 U.S.C. 1801 *et seq.*; and 16 U.S.C. 6901 *et seq.*

Dated: March 7, 2023.

**Jennifer M. Wallace,**  
*Acting Director, Office of Sustainable Fisheries, National Marine Fisheries Service.*

[FR Doc. 2023-04925 Filed 3-9-23; 8:45 am]

**BILLING CODE 3510-22-P**

**DEPARTMENT OF COMMERCE**

**National Oceanic and Atmospheric Administration**

[RTID 0648-XC833]

**North Pacific Fishery Management Council; Public Meeting**

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

**ACTION:** Notice of web conference.

**SUMMARY:** The North Pacific Fishery Management Council (Council) Pacific Northwest Crab Industry Advisory Committee (PNCIAC) will meet March 29, 2023.

**DATES:** The meeting will be held on Wednesday, March 29, 2023, from 1 p.m. to 2 p.m., Alaska Time.

**ADDRESSES:** The meeting will be a web conference. Join online through the link at <https://meetings.npfmc.org/Meeting/Details/2987>.

*Council address:* North Pacific Fishery Management Council, 1007 W 3rd Ave, Anchorage, AK 99501-2252; telephone: (907) 271-2809. Instructions for attending the meeting via video conference are given under **SUPPLEMENTARY INFORMATION**, below.

**FOR FURTHER INFORMATION CONTACT:** Sarah Marrinan, Council staff; phone; (907) 271-2809; email: [sarah.marrinan@noaa.gov](mailto:sarah.marrinan@noaa.gov). For technical support, please contact our admin Council staff, email: [npfmc.admin@noaa.gov](mailto:npfmc.admin@noaa.gov).

**SUPPLEMENTARY INFORMATION:**

**Agenda**

*Wednesday, March 29, 2023*

The Committee will (a) conduct election of officers (b) discuss pending Council crab actions for June; (c) discuss upcoming Crab Rationalization Program Review; and (d) other business. The agenda is subject to change, and the latest version will be posted <https://meetings.npfmc.org/Meeting/Details/2987> prior to the meeting, along with meeting materials.

**Connection Information**

You can attend the meeting online using a computer, tablet, or smart phone, or by phone only. Connection information will be posted online at: <https://meetings.npfmc.org/Meeting/Details/2987>.

**Public Comment**

Public comment letters will be accepted and should be submitted electronically to <https://meetings.npfmc.org/Meeting/Details/2987>.

*Authority:* 16 U.S.C. 1801 *et seq.*

Dated: March 7, 2023.

**Rey Israel Marquez,**

*Acting Deputy Director, Office of Sustainable Fisheries, National Marine Fisheries Service.*

[FR Doc. 2023-04945 Filed 3-9-23; 8:45 am]

**BILLING CODE 3510-22-P**

**DEPARTMENT OF COMMERCE**

**National Oceanic and Atmospheric Administration**

[RTID 0648-XC826]

**Taking and Importing Marine Mammals; Taking Marine Mammals Incidental to Geophysical Surveys Related to Oil and Gas Activities in the Gulf of Mexico**

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

**ACTION:** Notice of issuance of Letter of Authorization.

**SUMMARY:** In accordance with the Marine Mammal Protection Act (MMPA), as amended, its implementing regulations, and NMFS' MMPA Regulations for Taking Marine Mammals Incidental to Geophysical Surveys Related to Oil and Gas Activities in the Gulf of Mexico, notification is hereby given that a Letter of Authorization (LOA) has been issued to Shell Offshore Inc. (Shell) for the take of marine mammals incidental to geophysical survey activity in the Gulf of Mexico.

**DATES:** The LOA is effective from March 7, 2023, through March 31, 2024.

**ADDRESSES:** The LOA, LOA request, and supporting documentation are available online at: [www.fisheries.noaa.gov/action/incidental-take-authorization-oil-and-gas-industry-geophysical-survey-activity-gulf-mexico](http://www.fisheries.noaa.gov/action/incidental-take-authorization-oil-and-gas-industry-geophysical-survey-activity-gulf-mexico). In case of problems accessing these documents, please call the contact listed below (see **FOR FURTHER INFORMATION CONTACT**).

**FOR FURTHER INFORMATION CONTACT:** Ben Laws, Office of Protected Resources, NMFS, (301) 427-8401.

**SUPPLEMENTARY INFORMATION:**

**Background**

Sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce 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 authorization is provided to the public for review.

An authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s), will not have an unmitigable adverse impact on the availability of the species or stock(s) for subsistence uses (where relevant), and if the permissible methods of taking and requirements pertaining to the mitigation, monitoring and reporting of such takings are set forth. NMFS has defined “negligible impact” in 50 CFR 216.103 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.

Except with respect to certain activities not pertinent here, 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).

On January 19, 2021, we issued a final rule with regulations to govern the unintentional taking of marine mammals incidental to geophysical survey activities conducted by oil and gas industry operators, and those persons authorized to conduct activities on their behalf (collectively “industry operators”), in Federal waters of the U.S. Gulf of Mexico (GOM) over the course of 5 years (86 FR 5322, January 19, 2021). The rule was based on our findings that the total taking from the specified activities over the 5-year period will have a negligible impact on the affected species or stock(s) of marine mammals and will not have an

unmitigable adverse impact on the availability of those species or stocks for subsistence uses. The rule became effective on April 19, 2021.

Our regulations at 50 CFR 217.180 *et seq.* allow for the issuance of LOAs to industry operators for the incidental take of marine mammals during geophysical survey activities and prescribe the permissible methods of taking and other means of effecting the least practicable adverse impact on marine mammal species or stocks and their habitat (often referred to as mitigation), as well as requirements pertaining to the monitoring and reporting of such taking. Under 50 CFR 217.186(e), issuance of an LOA shall be based on a determination that the level of taking will be consistent with the findings made for the total taking allowable under these regulations and a determination that the amount of take authorized under the LOA is of no more than small numbers.

**Summary of Request and Analysis**

Shell plans to conduct a 3D ocean bottom node (OBN) survey in Stones Lease Block WR 508 and the surrounding approximately 100 lease blocks, with approximate water depths ranging from 1,825 to 3,050 meters (m). See Section F of the LOA application for a map of the area. Shell anticipates using a single source vessel, towing a conventional airgun array source consisting of 32 elements, with a total volume of 5,110 cubic inches (in<sup>3</sup>). Please see Shell’s application for additional detail.

Consistent with the preamble to the final rule, the survey effort proposed by Shell in its LOA request was used to develop LOA-specific take estimates based on the acoustic exposure modeling results described in the preamble (86 FR 5398, January 19, 2021). In order to generate the appropriate take number for authorization, the following information was considered: (1) survey type; (2) location (by modeling zone<sup>1</sup>); (3) number of days; and (4) season.<sup>2</sup> The acoustic exposure modeling performed in support of the rule provides 24-hour exposure estimates for each species, specific to each modeled survey type in each zone and season.

No 3D OBN surveys were included in the modeled survey types, and use of existing proxies (*i.e.*, 2D, 3D NAZ, 3D WAZ, Coil) is generally conservative for

use in evaluation of 3D OBN survey effort, largely due to the greater area covered by the modeled proxies. Summary descriptions of these modeled survey geometries are available in the preamble to the proposed rule (83 FR 29212, 29220, June 22, 2018). Coil was selected as the best available proxy survey type because the spatial coverage of the planned survey is most similar to that associated with the coil survey pattern. The planned 3D OBN survey will involve one source vessel sailing along closely spaced survey lines approximately 30 km in length. The coil survey pattern in the model was assumed to cover approximately 144 kilometers squared (km<sup>2</sup>) per day (compared with approximately 795 km<sup>2</sup>, 199 km<sup>2</sup>, and 845 km<sup>2</sup> per day for the 2D, 3D NAZ, and 3D WAZ survey patterns, respectively). Among the different parameters of the modeled survey patterns (*e.g.*, area covered, line spacing, number of sources, shot interval, total simulated pulses), NMFS considers area covered per day to be most influential on daily modeled exposures exceeding Level B harassment criteria. Although Shell is not proposing to perform a survey using the coil geometry, its planned 3D OBN survey is expected to cover approximately 15 km<sup>2</sup> per day, meaning that the coil proxy is most representative of the effort planned by Shell in terms of predicted Level B harassment exposures.

In addition, all available acoustic exposure modeling results assume use of a 72-element, 8,000 in<sup>3</sup> array. Thus, take numbers authorized through the LOA are considered conservative due to differences in both the airgun array (32 elements, 5,110 in<sup>3</sup>) and the daily survey area planned by Shell (15 km<sup>2</sup>), as compared to those modeled for the rule.

The survey is planned to occur for approximately 70 days in Zone 7, with airguns being used on 55 of the days. The seasonal distribution of survey days is not known in advance. Therefore, the take estimates for each species are based on the season that has the greater value for the species (*i.e.*, winter or summer).

For some species, take estimates based solely on the modeling yielded results that are not realistically likely to occur when considered in light of other relevant information available during the rulemaking process regarding marine mammal occurrence in the GOM. The approach used in the acoustic exposure modeling, in which seven modeling zones were defined over the U.S. GOM, necessarily averages fine-scale information about marine mammal distribution over the large area of each

<sup>1</sup> For purposes of acoustic exposure modeling, the GOM was divided into seven zones. Zone 1 is not included in the geographic scope of the rule.

<sup>2</sup> For purposes of acoustic exposure modeling, seasons include Winter (December–March) and Summer (April–November).

modeling zone. Thus, although the modeling conducted for the rule is a natural starting point for estimating take, the rule acknowledged that other information could be considered (see, e.g., 86 FR 5442 (January 19, 2021), discussing the need to provide flexibility and make efficient use of previous public and agency review of other information and identifying that additional public review is not necessary unless the model or inputs used differ substantively from those that were previously reviewed by NMFS and the public). For this survey, NMFS has other relevant information reviewed during the rulemaking that indicates use of the acoustic exposure modeling to generate a take estimate for certain marine mammal species produces results inconsistent with what is known regarding their occurrence in the GOM. Accordingly, we have adjusted the calculated take estimates for the species as described below.

Killer whales are the most rarely encountered species in the GOM, typically in deep waters of the central GOM (Roberts *et al.*, 2015; Maze-Foley and Mullin, 2006). The approach used in the acoustic exposure modeling, in which seven modeling zones were defined over the U.S. GOM, necessarily averages fine-scale information about marine mammal distribution over the large area of each modeling zone. NMFS has determined that the approach results in unrealistic projections regarding the likelihood of encountering killer whales.

As discussed in the final rule, the density models produced by Roberts *et al.* (2016) provide the best available scientific information regarding predicted density patterns of cetaceans in the U.S. GOM. The predictions represent the output of models derived from multi-year observations and associated environmental parameters that incorporate corrections for detection bias. However, in the case of killer whales, the model is informed by few data, as indicated by the coefficient of variation associated with the abundance predicted by the model (0.41, the second-highest of any GOM species model; Roberts *et al.*, 2016). The model's authors noted the expected non-uniform distribution of this rarely-encountered species (as discussed above) and expressed that, due to the limited data available to inform the model, it "should be viewed cautiously" (Roberts *et al.*, 2015).

NOAA surveys in the GOM from 1992–2009 reported only 16 sightings of killer whales, with an additional 3 encounters during more recent survey effort from 2017–18 (Waring *et al.*, 2013;

[www.boem.gov/gommapps](http://www.boem.gov/gommapps)). Two other species were also observed on fewer than 20 occasions during the 1992–2009 NOAA surveys (Fraser's dolphin and false killer whale<sup>3</sup>). However, observational data collected by protected species observers (PSOs) on industry geophysical survey vessels from 2002–2015 distinguish the killer whale in terms of rarity. During this period, killer whales were encountered on only 10 occasions, whereas the next most rarely encountered species (Fraser's dolphin) was recorded on 69 occasions (Barkaszi and Kelly, 2019). The false killer whale and pygmy killer whale were the next most rarely encountered species, with 110 records each. The killer whale was the species with the lowest detection frequency during each period over which PSO data were synthesized (2002–2008 and 2009–2015). This information qualitatively informed our rulemaking process, as discussed at 86 FR 5334 (January 19, 2021), and similarly informs our analysis here.

The rarity of encounter during seismic surveys is not likely to be the product of high bias on the probability of detection. Unlike certain cryptic species with high detection bias, such as *Kogia* spp. or beaked whales, or deep-diving species with high availability bias, such as beaked whales or sperm whales, killer whales are typically available for detection when present and are easily observed. Roberts *et al.* (2015) stated that availability is not a major factor affecting detectability of killer whales from shipboard surveys, as they are not a particularly long-diving species. Baird *et al.* (2005) reported that mean dive durations for 41 fish-eating killer whales for dives greater than or equal to 1 minute in duration was 2.3–2.4 minutes, and Hooker *et al.* (2012) reported that killer whales spent 78 percent of their time at depths between 0–10 m. Similarly, Kvadsheim *et al.* (2012) reported data from a study of four killer whales, noting that the whales performed 20 times as many dives 1–30 m in depth than to deeper waters, with an average depth during those most common dives of approximately 3 m.

In summary, killer whales are the most rarely encountered species in the GOM and typically occur only in particularly deep water. While this information is reflected through the density model informing the acoustic exposure modeling results, there is relatively high uncertainty associated with the model for this species, and the

<sup>3</sup> However, note that these species have been observed over a greater range of water depths in the GOM than have killer whales.

acoustic exposure modeling applies mean distribution data over areas where the species is in fact less likely to occur. NMFS' determination in reflection of the data discussed above, which informed the final rule, is that use of the generic acoustic exposure modeling results for killer whales will generally result in estimated take numbers that are inconsistent with the assumptions made in the rule regarding expected killer whale take (86 FR 5403, January 19, 2021).

In past authorizations, NMFS has often addressed situations involving the low likelihood of encountering a rare species such as killer whales in the GOM through authorization of take of a single group of average size (*i.e.*, representing a single potential encounter). See 83 FR 63268, December 7, 2018. See also 86 FR 29090, May 28, 2021 and 85 FR 55645, September 9, 2020. For the reasons expressed above, NMFS determined that a single encounter of killer whales is more likely than the model-generated estimates and has authorized take associated with a single group encounter (*i.e.*, up to 7 animals).

Based on the results of our analysis, NMFS has determined that the level of taking expected for this survey and authorized through the LOA is consistent with the findings made for the total taking allowable under the regulations. See table 1 in this notice and table 9 of the rule (86 FR 5322, January 19, 2021).

#### Small Numbers Determination

Under the GOM rule, NMFS may not authorize incidental take of marine mammals in an LOA if it will exceed "small numbers." In short, when an acceptable estimate of the individual marine mammals taken is available, if the estimated number of individual animals taken is up to, but not greater than, one-third of the best available abundance estimate, NMFS will determine that the numbers of marine mammals taken of a species or stock are small. For more information please see NMFS' discussion of the MMPA's small numbers requirement provided in the final rule (86 FR 5438, January 19, 2021).

The take numbers for authorization are determined as described above in the Summary of Request and Analysis section. Subsequently, the total incidents of harassment for each species are multiplied by scalar ratios to produce a derived product that better reflects the number of individuals likely to be taken within a survey (as compared to the total number of instances of take), accounting for the

likelihood that some individual marine mammals may be taken on more than one day (see 86 FR 5404, January 19, 2021). The output of this scaling, where appropriate, is incorporated into adjusted total take estimates that are the basis for NMFS' small numbers determinations, as depicted in table 1.

This product is used by NMFS in making the necessary small numbers determinations through comparison with the best available abundance

estimates (see discussion at 86 FR 5391, January 19, 2021). For this comparison, NMFS' approach is to use the maximum theoretical population, determined through review of current stock assessment reports (SAR; [www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments](http://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessments)) and model-predicted abundance information (<https://seamap.env.duke.edu/models/Duke/GOM/>). For the latter, for taxa

where a density surface model could be produced, we use the maximum mean seasonal (*i.e.*, 3-month) abundance prediction for purposes of comparison as a precautionary smoothing of month-to-month fluctuations and in consideration of a corresponding lack of data in the literature regarding seasonal distribution of marine mammals in the GOM. Information supporting the small numbers determinations is provided in table 1.

TABLE 1—TAKE ANALYSIS

Species	Authorized take	Scaled take <sup>1</sup>	Abundance <sup>2</sup>	Percent abundance
Rice's whale <sup>3</sup>	0	n/a	51	n/a
Sperm whale	291	123.2	2,207	5.6
<i>Kogia</i> spp.	<sup>4</sup> 164	48.2	4,373	1.4
Beaked whales	2,572	259.8	3,768	6.9
Rough-toothed dolphin	478	137.2	4,853	2.8
Bottlenose dolphin	<sup>5</sup> 21	6.0	176,108	0.0
Clymene dolphin	1,262	362.1	11,895	3.0
Atlantic spotted dolphin	0	n/a	74,785	n/a
Pantropical spotted dolphin	12,526	3,595.0	102,361	3.5
Spinner dolphin	294	84.4	25,114	0.3
Striped dolphin	655	188.1	5,229	3.6
Fraser's dolphin	206	59.2	1,665	3.6
Risso's dolphin	203	60.0	3,764	1.6
Melon-headed whale	813	239.9	7,003	3.4
Pygmy killer whale	396	116.7	2,126	5.5
False killer whale	448	132.1	3,204	4.1
Killer whale	7	n/a	267	2.6
Short-finned pilot whale	64	19.0	1,981	1.0

<sup>1</sup> Scalar ratios were applied to "Authorized Take" values as described at 86 FR 5322, 5404 (January 19, 2021) to derive scaled take numbers shown here.

<sup>2</sup> Best abundance estimate. For most taxa, the best abundance estimate for purposes of comparison with take estimates is considered here to be the model-predicted abundance (Roberts *et al.*, 2016). For those taxa where a density surface model predicting abundance by month was produced, the maximum mean seasonal abundance was used. For those taxa where abundance is not predicted by month, only mean annual abundance is available. For Rice's whale and killer whale, the larger estimated SAR abundance estimate is used.

<sup>3</sup> The final rule refers to the GOM Bryde's whale (*Balaenoptera edeni*). These whales were subsequently described as a new species, Rice's whale (*Balaenoptera ricei*) (Rosel *et al.*, 2021).

<sup>4</sup> Includes 14 takes by Level A harassment and 150 takes by Level B harassment. Scalar ratio is applied to takes by Level B harassment only; small numbers determination made on basis of scaled Level B harassment take plus authorized Level A harassment take.

<sup>5</sup> Modeled take of 13 increased to account for potential encounter with group of average size (Maze-Foley and Mullin, 2006).

Based on the analysis contained herein of Shell's proposed survey activity described in its LOA application and the anticipated take of marine mammals, NMFS finds that small numbers of marine mammals will be taken relative to the affected species or stock sizes (*i.e.*, less than one-third of the best available abundance estimate) and therefore the taking is of no more than small numbers.

**Authorization**

NMFS has determined that the level of taking for this LOA request is consistent with the findings made for the total taking allowable under the incidental take regulations and that the amount of take authorized under the LOA is of no more than small numbers. Accordingly, we have issued an LOA to Shell authorizing the take of marine

mammals incidental to its geophysical survey activity, as described above.

Dated: March 7, 2023.

**Kimberly Damon-Randall,**

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

[FR Doc. 2023-04949 Filed 3-9-23; 8:45 am]

**BILLING CODE 3510-22-P**

**DEPARTMENT OF COMMERCE**

**National Oceanic and Atmospheric Administration**

**Notice of Availability of a Final Management Plan and Final Environmental Assessment for the Channel Islands National Marine Sanctuary**

**AGENCY:** Office of National Marine Sanctuaries, National Ocean Service, National Oceanic and Atmospheric

Administration, Department of Commerce.

**ACTION:** Notice of availability.

**SUMMARY:** The National Oceanic and Atmospheric Administration (NOAA) has prepared a final management plan (FMP) as part of the Channel Islands National Marine Sanctuary (CINMS or sanctuary) management plan review. The FMP, which replaces a 2009 sanctuary management plan, addresses current and emerging threats in CINMS and reflects changes in new science and technologies, how the public uses the sanctuary, and community needs. The FMP supports continued protection of sanctuary resources through enforcement of existing sanctuary regulations, education and outreach strategies that promote ocean stewardship, and community-inclusive involvement. Consistent with the