

specified performance requirements outlined in § 648.87(b)(4), including required coverage levels, in order to maintain eligibility. We must notify service providers, in writing, if NMFS withdraws approval for any reason.

#### Approved Monitoring Service Providers

On February 4, 2021, NMFS approved 6 companies to provide monitoring services to the Northeast multispecies sectors in fishing years 2021 and 2022. Four of the six companies are approved to provide both at-sea and electronic monitoring services: A.I.S., Inc.; East West Technical Services, LLC; Fathom Research, LLC; and Saltwater, Inc. NMFS approved the other two

companies to provide electronic monitoring services: Flywire Cameras and Teem Fish.

Two additional companies also applied to provide electronic monitoring services, but we required additional information to complete their applications prior to making a determination. One company, New England Marine Monitoring, has since submitted a revised and complete application for our consideration. We approved New England Marine Monitoring to provide electronic monitoring services in fishing years 2021 and 2022 because the applicant has met the application requirements

and documented its ability to comply with service provider standards. The revised list of approved monitoring providers for fishing years 2021 and 2022 is provided in Table 1.

There will be an opportunity in the fall of 2021 for additional monitoring companies to apply for approval to provide at-sea and electronic monitoring services in fishing year 2022. We will closely monitor the performance of approved providers, and we will withdraw approval during the current approval term, or disapprove a provider in future fishing years, if we determine performance standards are not being met.

TABLE 1—APPROVED PROVIDERS FOR FISHING YEARS 2021 AND 2022

Provider	Services *	Address	Phone	Fax	Website
A.I.S., Inc .....	ASM/EM	540 Hawthorn St, Dartmouth, MA 02747.	508-990-9054	508-990-9055	<a href="https://aisobservers.com/">https://aisobservers.com/</a> .
East West Technical Services, LLC.	ASM/EM	91 Point Judith Rd., Suite 26 Unit 347, Narragansett, RI 02882.	860-910-4957	860-223-6005	<a href="https://www.ewts.com/">https://www.ewts.com/</a> .
Fathom Resources, LLC.	ASM/EM	855 Aquidneck Ave., Unit 9, Middletown, RI 02842.	508-990-0997	508-991-7372	<a href="https://fathomresources.com/">https://fathomresources.com/</a> .
Flywire Cameras ..	EM	P.O. BOX 55048, Lexington, KY 40511.	888-315-7796	502-861-6568	<a href="https://www.flywirecameras.com/">https://www.flywirecameras.com/</a> .
Saltwater, Inc .....	ASM/EM	733 N St., Anchorage, AK 99501.	907-276-3241	907-258-5999	<a href="https://www.saltwaterinc.com/">https://www.saltwaterinc.com/</a> .
Teem Fish .....	EM	90-425 Carrall St., Vancouver, BC V6B 6E3, Canada.	778-884-2598	.....	<a href="https://teem.fish/">https://teem.fish/</a> .
New England Marine Monitoring.	EM	350 Commercial St., Portland, ME 04101.	508-269-8138	.....	<a href="https://www.nemarinemonitoring.com/">https://www.nemarinemonitoring.com/</a> .

\* ASM/EM = At-sea and electronic monitoring; EM = Electronic monitoring only.

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

Dated: September 16, 2021.

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

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## DEPARTMENT OF COMMERCE

### National Oceanic and Atmospheric Administration

[RTID 0648-XB406]

#### 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 Anadarko Petroleum Corporation (Anadarko) for the take of marine mammals incidental to geophysical survey activity in the Gulf of Mexico.

**DATES:** The LOA is effective from September 18, 2021 through March 17, 2022.

**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:** Kim Corcoran, 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

Anadarko plans to conduct a zero offset vertical seismic profile (VSP) survey after reaching total depth at Lease Block 129 in the Mississippi Canyon. (See map in Section F of

Anadarko’s application.) Anadarko plans to use one of four possible airgun arrays for this survey: A 12-element array, with a total volume of 2,400 cubic inches (in<sup>3</sup>); an array consisting of 6 elements with total volume of 1,500 in<sup>3</sup>; an array consisting of 6 elements, with a total volume of 1,200 in<sup>3</sup>; or an array consisting of 8 elements with a total volume of 1,170 in<sup>3</sup>. Please see Anadarko’s application for additional detail.

Consistent with the preamble to the final rule, the survey effort proposed by Anadarko 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 5322, 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 VSP 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 VSP survey effort. Summary descriptions of these modeled survey geometries are available in the preamble to the proposed rule (83 FR 29212, 29220; June 22, 2018). Zero offset VSP surveys are significantly different from modeled survey geometries in that they are conducted from a stationary or near-stationary deployment very close to an active drilling platform. For this survey, the seismic source array will be deployed from a drillship at or near the borehole, with the seismic receivers (*i.e.*, geophones) deployed in the borehole on wireline at specified depth intervals. Use of the 2D proxy for zero offset VSP surveys is expected to be significantly conservative. In addition, all available acoustic exposure modeling results assume use of a 72 element, 8,000 in<sup>3</sup> array. In this case, take numbers authorized through the LOA are considered very conservative (*i.e.*, they likely overestimate take) due to differences in both the airgun array and the survey geometry planned by Anadarko, as compared to those modeled for the rule. The survey is planned to occur for 5 days in Zone 5.

<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).

Although the survey is planned to occur in September 2021, the LOA is effective from September 18, 2021–March 17, 2022 to account for potential delay. 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. Thus, although the modeling conducted for the rule is a natural starting point for estimating take, our rule acknowledged that other information could be considered (see, *e.g.*, 86 FR 5322, 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 killer whales produces results inconsistent with what is known regarding their occurrence in the GOM. Accordingly, we have adjusted the calculated take estimates for that 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 three 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 5322, 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 meters (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 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 5322, 5403; January 19, 2021). In this case, use of the acoustic exposure modeling produces an estimate of three killer whale exposures. Given the foregoing, it is unlikely that even one killer whale would be encountered during this 5-day survey, and accordingly no take of killer whales is authorized through this LOA.

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 final 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 5322, 5438; January 19, 2021).

The take numbers for authorization, which are determined as described above, are used by NMFS in making the necessary small numbers determinations, through comparison with the best available abundance estimates (see discussion at 86 FR 5322, 5391; January 19, 2021). For this comparison, NMFS' approach is to use the maximum theoretical population, determined through review of current stock abundance 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 <sup>1</sup>	Abundance <sup>2</sup>	Percent abundance
Bryde's whale <sup>3</sup> .....	0	51	n/a
Kogia sp .....	466	4,373	1.5
Beaked whales .....	944	3,768	25.1
Bottlenose dolphin .....	648	176,108	0.4
Short-finned pilot whale .....	70	1,981	3.5
Sperm whale .....	178	2,207	8.1
Atlantic spotted dolphin .....	245	74,785	0.3

<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.

TABLE 1—TAKE ANALYSIS—Continued

Species	Authorized take <sup>1</sup>	Abundance <sup>2</sup>	Percent abundance
Clymene dolphin .....	379	11,895	3.2
False killer whale .....	78	3,204	2.4
Fraser's dolphin .....	<sup>5</sup> 65	1,665	2.5
Killer whale .....	0	267	n/a
Melon-headed whale .....	243	7,003	3.5
Pantropical spotted dolphin .....	1,719	102,361	1.7
Pygmy killer whale .....	49	2,126	2.3
Risso's dolphin .....	114	3,764	3.0
Rough-toothed dolphin .....	113	4,853	2.3
Spinner dolphin .....	461	25,114	1.8
Striped dolphin .....	148	5,229	2.8

<sup>1</sup> Scalar ratios were not applied in this case due to brief survey duration.

<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 1 take by Level A harassment and 65 takes by Level B harassment.

<sup>5</sup> Modeled take of 41 increased to account for potential encounter with group of average size (Maze-Foley and Mullin, 2006).

Based on the analysis contained herein of Anadarko'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 Anadarko authorizing the take of marine mammals incidental to its geophysical survey activity, as described above.

Dated: September 16, 2021.

**Kimberly Damon-Randall,**

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

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#### DEPARTMENT OF COMMERCE

##### National Oceanic and Atmospheric Administration

[RTID 0648-XB437]

##### Fisheries of the South Atlantic; South Atlantic Fishery Management Council; Public Meetings

**AGENCY:** National Marine Fisheries Service (NMFS), National Oceanic and

Atmospheric Administration (NOAA), Commerce.

**ACTION:** Notice of Seminar Series presentation.

**SUMMARY:** The South Atlantic Fishery Management Council (Council) will host a presentation on Tuna Management Strategy Evaluation via webinar October 12, 2021.

**DATES:** The webinar presentation will be held on Tuesday, October 12, 2021, from 1 p.m. until 2:30 p.m.

#### ADDRESSES:

*Meeting address:* The presentation will be provided via webinar. The webinar is open to members of the public. Information, including a link to webinar registration will be posted on the Council's website at: <https://safmc.net/safmc-meetings/other-meetings/> as it becomes available.

*Council address:* South Atlantic Fishery Management Council, 4055 Faber Place Drive, Suite 201, N. Charleston, SC 29405.

**FOR FURTHER INFORMATION CONTACT:** Kim Iverson, Public Information Officer, SAFMC; phone: (843) 302-8439 or toll free: (866) SAFMC-10; fax: (843) 769-4520; email: [kim.iverson@safmc.net](mailto:kim.iverson@safmc.net).

**SUPPLEMENTARY INFORMATION:** The Council will host a presentation from National Marine Fisheries Service on Tuna Management Strategy Evaluation (MSE). The Council is considering using MSEs in future management and this will provide a background on how MSEs have been used in other fisheries. A question and answer session will follow the presentation. Members of the public will have the opportunity to participate in the discussion. The presentation is for informational

purposes only and no management actions will be taken.

#### Special Accommodations

The meeting is physically accessible to people with disabilities. Requests for auxiliary aids should be directed to the Council office (see **ADDRESSES**) 3 days prior to the meeting.

*Note:* The times and sequence specified in this agenda are subject to change.

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

Dated: September 17, 2021.

**Tracey L. Thompson,**

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

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#### DEPARTMENT OF COMMERCE

##### National Oceanic and Atmospheric Administration

[RTID 0648-XB436]

##### Pacific Fishery Management Council; Public Meeting

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

**ACTION:** Notice of public meeting.

**SUMMARY:** The Pacific Fishery Management Council's (Pacific Council) Highly Migratory Species Management Team (HMSMT) is holding a meeting, which is open to the public.

**DATES:** The online meeting will be held on Tuesday, October 12, 2021, beginning at 1 p.m. (Pacific Daylight