

Marine Mammal Protection Act Section 101(a)(5)(E) Fishery Evaluation Form

For Category I and II Commercial Fisheries

Purpose

Section 101(a)(5)(E) of the Marine Mammal Protection Act (MMPA) requires National Marine Fisheries Service (NMFS) to authorize the incidental take of marine mammals listed under the Endangered Species Act (ESA) in a commercial fishery for a period of up to three years if NMFS determines the following criteria have been met:

- 1. Incidental mortality and serious injury (M/SI) from commercial fisheries will have a negligible impact on the affected species/stock;
- 2. A recovery plan has been developed or is being developed for such species/stock; and
- 3. Where required under MMPA Section 118, a monitoring program has been established, vessels are registered, and a take reduction plan has been developed or is being developed for such species/stock.

This form documents NMFS' evaluation of whether a fishery can be authorized under MMPA Section 101(a)(5)(E). To determine if M/SI incidental to a specific commercial fishery will have a negligible impact on a specific stock(s), this evaluation employs the process and standards laid out in NMFS Procedure 02-204-02, *Criteria for Determining Negligible Impact under MMPA Section 101(a)(5)(E)*, and is based on the most recent final MMPA List of Fisheries (LOF) and the most recent Marine Mammal Stock Assessment Reports (SARs).

Commercial Fishery Information

Commercial Fishery: AK Bering Sea, Aleutian Islands Flatfish Trawl
Region: Alaska
Final List of Fisheries (LOF) Year: 2024 LOF Category: II Fishery Management: Federal
ESA-Listed Marine Mammal Stock(s) Seriously Injured or Killed Incidental to this Fishery:
1) Steller sea lion, Western U.S. 4) Ringed seal, Arctic
2) Humpback whale, Western North Pacific 5)
3) Bearded seal, Beringia 6)
ESA-Listed Marine Mammal Stock(s) Driving LOF Classification:
Steller sea lion, Western U.S.
Additional Fishery Information:
Available on Fishery Fact Sheet
<u>Fact Sheet Link:</u> https://www.fisheries.noaa.gov/national/marine-mammal-protection/alaska-bering-sea-aleutian-i slands-flatfish-trawl-mmpa-list
Fishery Fact Sheet Not Available (if applicable)
Information from Other Source:

Stock #1 Information	
Stock: Steller sea lion, Western U.S.	Transboundary: Yes
Not Applicable R _{max} : 0.1200	
Data Source: Draft SAR Year: 2023	
Negligible Impact Analysis	
Tier 1 analysis is not applicable because the stock is tr	ansboundary Only conduct Tier 2 analysis if this option is selected
Tier 1 analysis is applicable Continue below to Tier 1 And	
Tier 1 Analysis Average Annual Human-Caused M/SI Including SIs averted (i.e., human intervention or self-release)	
Date Range: Total Human-Caused M/SI: _	
Tier 1 Analysis (i.e., NIT Threshold #1) Formula: $NIT_t = N_{min}$	x 0.5 <i>R_{max}</i> x 0.1
$\begin{tabular}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} N_{min} \ Unavailable: \\ N_{min} \ Threshold \ for \ NIT_t: _ \\ N_{min} \ likely > Threshold \ N_{min} \ for \ NIT_t \\ N_{min} \ likely \leq Threshold \ N_{min} \ for \ NIT_t \\ \end{array}$
Result from Tier 1 Analysis:	
Tier 2 Analysis Average Annual Human-Caused M/SI Including SIs averted (i.e., human intervention or self-release)	
Date Range: 2017-2021 Individual Comm. Fisher	ery M/SI: 13
Individual M/SI unavailable or likely underestimated due t Yes	to M/SI from unidentified fishing gear:
If yes, explain below: The SAR also includes unattributed fishery-related M/SI (1 commercial fishery. This unattributed fishery-related M/SI commercial, recreational, or tribal fisheries, including, fishery. In accordance with NMFS Procedural Directive 02-to assign the unattributed fishery-related M/SI to a specific mortality in the calculations for the NID Tier 2 analysis (NN	could be from any number of the AK Bering Sea, Aleutian Islands Flatfish Trawl 204-02, because the data are not currently available c commercial fishery, we did not include unattributed
Tier 2 Analysis (i.e., NIT Threshold #2) Formula: $NIT_s = N_{min}$	x 0.5 <i>R_{max}</i> x 0.013
N _{min} Available:	N _{min} Unavailable:
NIT _s : 38.87 Individual Fishery M/SI > NIT _s Individual Fishery M/SI ≤ NIT _s ✓	N_{min} Threshold for NIT _s : N_{min} likely > Threshold N_{min} for NIT _s N_{min} likely \leq Threshold N_{min} for NIT _s
Result from Tier 2 Analysis: Negligible impact	

Stock#2 Information	
Stock: Humpback whale, Western North Pacific	Transboundary: Yes
N_{min} : 1,007.0000 Not Applicable R_{max} : 0.0670	
Data Source: Final SAR Year: 2022	
Negligible Impact Analysis	
Tier 1 analysis is not applicable because the stock is tr	ansboundary Only conduct Tier 2 analysis if this option is selected
Tier 1 analysis is applicable Continue below to Tier 1 Ana	ulysis if this option is selected
Tier 1 Analysis	
Average Annual Human-Caused M/SI Including SIs averted (i.e., human intervention or self-release)	
Date Range: Total Human-Caused M/SI:	
Tier 1 Analysis (i.e., NIT Threshold #1) Formula: $NIT_t = N_{min}$	c 0.5R _{max} x 0.1
N _{min} Available:	N _{min} Unavailable:
NITt:	N _{min} Threshold for NIT _t :
Total Human-Caused M/SI > NIT_t Total Human-Caused M/SI $\leq NIT_t$	N_{min} likely > Threshold N_{min} for NIT_t N_{min} likely \leq Threshold N_{min} for NIT_t
Result from Tier 1 Analysis:	
Tier 2 Analysis Average Annual Human-Caused M/SI Including SIs averted (i.e., human intervention or self-release)	
Date Range: 2016-2020 Individual Comm. Fishe	ry M/SI: 0.0
Individual M/SI unavailable or likely underestimated due t Yes	o M/SI from unidentified fishing gear:
If yes, explain below:	
The SAR also includes unattributed fishery-related M/SI (0 commercial fishery. This unattributed fishery-related M/SI commercial, recreational, or tribal fisheries,including, t	could be from any number of
fishery. In accordance with NMFS Procedural Directive 02- to assign the unattributed fishery-related M/SI to a specific	204-02, because the data are not currently available
mortality in the calculations for the NID Tier 2 analysis (NN	•
Tier 2 Analysis (i.e., NIT Threshold #2) Formula: $NIT_s = N_{min}$	<0.5 <i>R_{max}</i> × 0.013
N _{min} Available:	N _{min} Unavailable:
NITs: <u>0.439</u>	N _{min} Threshold for NIT _s :
Individual Fishery M/SI > NIT _s	N _{min} likely > Threshold N _{min} for NIT _s
Individual Fishery M/SI ≤ NIT _s	N_{min} likely \leq Threshold N_{min} for NIT_s
Result from Tier 2 Analysis: Negligible impact	

Stock #3 Information	
Stock: Bearded seal, Beringia	Transboundary: Yes
Not Applicable R _{max} : <u>0.1200</u>	
Data Source: Final SAR Year: 2020	
Negligible Impact Analysis	
✓ Tier 1 analysis is not applicable because the stock is tr	ansboundary Only conduct Tier 2 analysis if this option is selected
Tier 1 analysis is applicable Continue below to Tier 1 And	·
Tier 1 Analysis	
Average Annual Human-Caused M/SI	
Including SIs averted (i.e., human intervention or self-release)	
Date Range: Total Human-Caused M/SI: _	
Tier 1 Analysis (i.e., NIT Threshold #1) Formula: $NIT_t = N_{min}$	KU.5K _{max} XU.1
N _{min} Available:	N _{min} Unavailable:
NIT _t :	N_{min} Threshold for NIT _t : N_{min} likely > Threshold N_{min} for NIT _t
Total Human-Caused M/SI > NIT _t Total Human-Caused M/SI \leq NIT _t	N_{min} likely \leq Threshold N_{min} for NIT _t
Result from Tier 1 Analysis:	
Tier 2 Analysis	
Average Annual Human-Caused M/SI	
Including SIs averted (i.e., human intervention or self-release)	1.1/0: 1.2
Date Range: 2014-2018 Individual Comm. Fishe	
Individual M/SI unavailable or likely underestimated due t No, Tier 2 Analysis needed	o M/SI from unidentified fishing gear:
If yes, explain below:	
The SAR also includes unattributed fishery-related M/SI () for the stock, which is not assigned to a specific
commercial fishery. This unattributed fishery-related M/SI including,	·
fishery. In accordance with NMFS Procedural Directive 02-	204-02, because the data are not currently available
to assign the unattributed fishery-related M/SI to a specific mortality in the calculations for the NID Tier 2 analysis (NN	
	·
Tier 2 Analysis (i.e., NIT Threshold #2) Formula: $NIT_s = N_{min}$	
N _{min} Available:	N _{min} Unavailable:
NIT _s : 213.5	N _{min} Threshold for NIT _s :
Individual Fishery M/SI > NIT _s Individual Fishery M/SI ≤ NIT _s	N_{min} likely > Threshold N_{min} for NIT _s N_{min} likely \leq Threshold N_{min} for NIT _s
Result from Tier 2 Analysis: Negligible impact	

Stock #4 Information	
Stock: Ringed seal, Arctic	Transboundary: Yes
N _{min} : 158,507.0 ■ Not Applicable R _{max} : 0.1200	
Data Source: Final SAR Year: 2020	
Negligible Impact Analysis	
✓ Tier 1 analysis is not applicable because the stock is tr	ansboundary Only conduct Tier 2 analysis if this option is selected
Tier 1 analysis is applicable Continue below to Tier 1 And	
Tier 1 Analysis	
Average Annual Human-Caused M/SI	
Including SIs averted (i.e., human intervention or self-release)	
Date Range: Total Human-Caused M/SI: _	
Tier 1 Analysis (i.e., NIT Threshold #1) Formula: $NIT_t = N_{min}$	
N _{min} Available:	N _{min} Unavailable:
NIT _t :	N_{min} Threshold for NIT _t : N_{min} likely > Threshold N_{min} for NIT _t
Total Human-Caused M/SI > NIT _t Total Human-Caused M/SI \leq NIT _t	N_{min} likely \leq Threshold N_{min} for NIT _t
Result from Tier 1 Analysis:	
Tier 2 Analysis	
Average Annual Human-Caused M/SI	
Including SIs averted (i.e., human intervention or self-release)	
Date Range: 2014-2018 Individual Comm. Fisher	ery M/SI: 4.6
Individual M/SI unavailable or likely underestimated due t No, Tier 2 Analysis needed	to M/SI from unidentified fishing gear:
If yes, explain below:	
The SAR also includes unattributed fishery-related M/SI () for the stock, which is not assigned to a specific
commercial fishery. This unattributed fishery-related M/SI including,	•
fishery. In accordance with NMFS Procedural Directive 02-	204-02, because the data are not currently available
to assign the unattributed fishery-related M/SI to a specific mortality in the calculations for the NID Tier 2 analysis (NN	•
Tier 2 Analysis (i.e., NIT Threshold #2) Formula: NIT _s = N _{min} :	
N _{min} Available:	N _{min} Unavailable:
NIT _s : 123.6	N _{min} Threshold for NIT _s :
Individual Fishery M/SI > NIT _s Individual Fishery M/SI ≤ NIT _s	N_{min} likely > Threshold N_{min} for NIT _s N_{min} likely \leq Threshold N_{min} for NIT _s
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Result from Tier 2 Analysis: Negligible impact	

Summary of Negligible Impact Determination(s)

Commercial Fishery: AK Bering Sea, Aleutian Islands Flatfish Trawl

Stock:	Negligible Impact:
1) Steller sea lion, Western U.S.	Yes
2) Humpback whale, Western North Pacific	Yes
3) Bearded seal, Beringia	Yes
4) Ringed seal, Arctic	Yes
5)	
6)	

Overall Negligible Impact Determination:

Based on criteria outlined in NMFS Procedure 02-204-02, Criteria for Determining Negligible Impact under MMPA Section 101(a)(5)(E), and the best scientific information and data available, the mortality and serious injury of ESA-listed marine mammals incidental to the fishery evaluated here will have a negligible impact on all relevant ESA-listed marine mammal stocks or species.

Criterion #2: Recovery Plan Status

Stock:	Recovery Plan Status:
1) Steller sea lion, Western U.S.	Already Developed
2) Humpback whale, Western North Pacific	Already Developed
3) Bearded seal, Beringia	Being Developed
4) Ringed seal, Arctic	Being Developed
5)	
6)	

Criterion #3: MMPA Section 118 Requirements

Monitoring program: Yes
Vessel registration: Yes
Take reduction plan: Achieved long-term goal of MMPA section 118(f)

References

Muto, M.M., V.T. Helker, B.J. Delean, N.C. Young, J.C. Freed, R.P. Angliss, N.A. Friday, P.L. Boveng, J.M. Breiwick, B.M. Brost, M.F. Cameron, P.J. Clapham, J.L. Crance, S.P. Dahle, M.E. Dahlheim, B.S. Fadely, M.C. Ferguson, L.W. Fritz, K.T. Goetz, R.C. Hobbs, Y.V. Ivashchenko, A.S. Kennedy, J.M. London, S.A. Mizroch, R.R. Ream, E.L. Richmond, K.E. W. Shelden, K.L. Sweeney, R.G. Towell, P.R. Wade, J.M. Waite, and A.N. Zerbini. 2021. Alaska marine mammal stock assessments, 2020. U.S. Department of Commerce, NOAA Tech. Memo. NMFS-AFSC-421. 398 p.

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