



Experimental Fishing Permit No. EFPT2-001

Revision Date: 11/7/2023

MARINE FISHERIES: EXPERIMENTAL FISHING PERMIT TERMS AND CONDITIONS

Pursuant to California Fish and Game Code (FGC) Section 1022 and Section 91, Title 14, California Code of Regulations (CCR), the Experimental Fishing Permit (EFP) holder is authorized to conduct experimental fishing activities according to the requirements of the EFP approved by the Fish and Game Commission (Commission) and issued by the California Department of Fish and Wildlife (Department).

EFP Holder/Entity Administrator Name: David Bartholomew Chadwick [REDACTED] EFP Holder)

Kim Sawicki [REDACTED] Entity Administrator)

EFP Holder Address:



Entity Administrator Address:

Authorized Agent Name:

See authorized agent list on Page 3

Authorized Agent Address:

See authorized agent list on Page 3

Vessel Name and ID #:

See authorized vessel list on Page 3

Description of authorized activity:

Testing and commercial use of the Sub Sea Sonics timed and acoustic-release pop-up gear systems in conjunction with the Longsoaker Fishing System and Guardian line management systems in the California Dungeness crab fishery and in the California hagfish fishery. The experimental fishing activities may only be conducted under the following conditions:

STANDARD TERMS

These standard terms shall apply to all persons or vessels conducting activities under the EFP.

1. The permit shall be operated only on the vessels named on this form, if applicable. Either the EFP holder or the authorized agent must be aboard the vessel when activities are being conducted under this permit, and both are responsible and accountable for meeting the requirements and limits of this permit.
2. Pursuant to FGC Section 7857(d), the EFP holder or authorized agent shall have a valid copy of the Department issued EFP attached to a signed copy of this form in possession when activities are being conducted under this permit.
3. All persons conducting activities under an EFP must comply with all appropriate state and federal fishing laws and regulations, including but not limited to those relating to protected species, minimum size limits, and seasons or areas closed to fishing that are not otherwise exempted by the permit (see special conditions).



- 4. The EFP holder and authorized agent shall cooperate with the Department by allowing personnel designated by the Department to board the fishing vessel on any fishing trip (if applicable) or enter a place of business operated by the EFP holder or authorized agent under this permit, to retrieve, observe, or inspect any logbook, records, data, equipment, procedures, or catch throughout the duration of the permit.
- 5. The EFP holder or authorized agent shall provide Department staff with 24-hour notice prior to every fishing trip. The contact information for Department staff will be provided for this purpose at the time of permit issuance.

SPECIAL CONDITIONS

As set forth in subsection 91(i), Title 14, CCR, special conditions may be placed on this permit for research purposes and the conservation and management of marine resources and the environment (see following page).

As set forth in subsection 91(k), Title 14, CCR, special conditions may be amended or repealed as necessary for research purposes and the conservation and management of marine resources and the environment.

As set forth in subsection 91(j), Title 14, CCR, it is unlawful to operate under an EFP in violation of the permit standard terms and special conditions as set forth on form DFW 1103.

RECEIPT AND ACKNOWLEDGEMENT

The permit is not valid until the EFP holder has certified by their signature below that they have: 1) read and understand the standard terms and special conditions of the permit; 2) unless otherwise specified in special conditions, paid the appropriate fees specified in Section 704, Title 14, CCR; and 3) returned a signed copy of this form to the Department.

I have read, understand and agree to abide by all standard terms and special conditions of this permit.

EFP Holder Signature _____ Date: _____

Received by License and Revenue Branch (LRB)

Fee \$ _____ Experimental Fishing Permit No. EFPT2-001

Revision Date _____

LRB Signature _____ Date: _____



Experimental Fishing Permit No. EFPT2-001

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Authorization and Special Conditions

List of approved special conditions, names and addresses of any additional authorized agents, and/or names and identification number of any additional authorized vessels.

Authorized Agents and Vessels

1. This EFP is valid for only the authorized agents and vessels named below. The Department may allow up to a maximum of 20 authorized agents and 20 vessels for this EFP, as it deems necessary for research purposes.

a. Authorized Agent Name and Address

- a. Russ K. Mullins [Redacted]
[Redacted]
- b. Marc E. Alley [Redacted]
[Redacted]
- c. Edward S. Tavasieff [Redacted]
[Redacted]
- d. Stephen F. Melz [Redacted]
[Redacted]
- e. Brand D. Little [Redacted]
[Redacted]
- f. Matthew A. Juanes [Redacted]
[Redacted]
- g. Kevin R. Mellegers [Redacted]
[Redacted]
- h. Richard Axelson [Redacted]
[Redacted]
- i. Tim Obert ([Redacted])
[Redacted]
[Redacted]
- j. Cody Reed [Redacted]
[Redacted]
- k. Jim Rando [Redacted]
[Redacted]
[Redacted]
- l. Joseph Parks [Redacted]
[Redacted]
- m. Justin Monckton [Redacted]
[Redacted]



n. Robert Monckton [REDACTED]
[REDACTED]

o. Daniel Kuntsman [REDACTED]
[REDACTED]

b. Authorized Project Vessel

a. F/V Ronna Lynn ([REDACTED])

b. F/V Friendship [REDACTED]

c. F/V Sunrise [REDACTED]

d. F/V Pale Horse [REDACTED]

e. F/V Plumeria ([REDACTED])

f. F/V Areona [REDACTED]

g. F/V Ava Mae [REDACTED]

h. F/V Lady Renee [REDACTED]

i. F/V Judy Kay [REDACTED]

j. F/V Orion [REDACTED]

k. F/V Stacey Jo [REDACTED]

l. F/V LULU [REDACTED]

m. F/V Misty Dawn [REDACTED]

2. All parties (as specified in 1, above) operating under the authority of this permit must be informed of and agree to abide by all standard terms and special conditions of this permit.

General

3. The authorized agent and any person who assists the authorized agent shall possess a valid commercial fishing license issued pursuant to FGC Sections 7850, 8280.1, and Section 125, Title 14 CCR, prior to engaging in any commercial fishing operations authorized by this permit.

4. The authorized agent and any person who assists the authorized agent shall possess a valid general trap permit issued pursuant to FGC Section 9001, prior to engaging in any fishing operations authorized by this permit.

5. The authorized agent shall possess a valid commercial boat registration issued pursuant to FGC Section 7881, for the vessel named above and display the Department Boat Registration numbers in plain sight on each side of the vessel pursuant to FGC Section 7880.

6. All authorized agents shall only participate in one EFP per fishing trip when



participating in multiple EFPs.

7. No other EFP or commercial fishing activities shall take place on the same trip as this EFP, unless specifically authorized by this EFP.
8. Authorized agents shall not deploy or be in possession of hagfish and crab traps on the same vessel during the same trip. Authorized agents also shall not possess or land loads or lots of hagfish and crab together at any time.

Authorized Species, Take and Landing Requirements

Dungeness Crab

9. Authorized agents may retain, possess, and land Dungeness crab when the commercial season is open in that Fishing Zone. Pursuant to FGC Section 8278, only male Dungeness crabs may be taken. No Dungeness crab less than 6 and one-quarter inches in breadth may be taken. Except that not more than one percent in number of any load or lot of Dungeness crab may be less than six and one quarter inches in breadth but not less than five and three quarters inches in breadth. Dungeness crab shall be measured by the shortest distances through the body from the edge of shell to edge of shell directly from front of points, lateral spines.
10. All incidental catch will be returned to the waters immediately to reduce mortality.
11. Authorized agents may fish for Dungeness crab and rock crab within the same trip if the authorized agent holds valid permits for those species. Unless specifically exempted by this EFP, adherence to all other regulations regarding the take of these species is required.
12. All electronic fish tickets must have the state EFP number recorded in the “State Permit #” field, the number of individual crabs recorded under the “# of Fish” field, species of crab specified in the “Notes,” and be transmitted within 24-hours.
13. All authorized agents shall notify the Department’s Law Enforcement Division (LEDMarineNotifications@wildlife.ca.gov) of any landings of Dungeness crab made with EFP fishing gear during a fishery closure due to RAMP. The notification shall include the date, port of landing, number of pounds landed, electronic fish ticket number, and the full name of the receiver.

Hagfish

14. All electronic fish tickets must have the state EFP number recorded in the “State Permit #” field, the number of pounds landed recorded, the price specified, and be transmitted within 24-hours.
15. All authorized agents shall notify the Department’s Law Enforcement Division (LEDMarineNotifications@wildlife.ca.gov) of any landings of hagfish made with EFP fishing gear within 24 hours. The notification shall include the date and the fish ticket



number.

Allowable Fishing Area and Time of Year

Dungeness Crab

16. Fishing activities shall only occur between the California/Oregon border (42° N. latitude) and Point Conception (34° 27' N. latitude) and no traps or gear shall be placed in the water or used seaward of the 100 fathoms line as defined in the Federal regulations and published in Title 50, Code of Federal Regulations Part 660.
17. Dungeness crab may only be taken, possessed, or landed during statutory season and is subject to domoic acid and quality take restrictions pursuant to in FGC Section 5523, 8276, Section 8276.1(d) and 8276.2. This permit exempts the agent from an early season closure pursuant to Section 132.8, Title 14 CCR, however, take, possession, and landing are prohibited when a season is delayed pursuant to Section 132.8, Title 14 CCR. For any waters closed early pursuant to 132.8, all non EFP Dungeness crab traps belonging to any EFP participant or applicant that has not been converted to EFP Dungeness crab traps, shall be removed from those closed waters by the effective dates as described in the Director's Declaration.
18. Authorized agents are subject to the requirement to remove all Dungeness crab traps from state waters by 11:59 pm on the last day of the fishing season, as defined in FGC Section 8276(d).
19. Fishing operations shall abide by all applicable Essential Fish Habitat closures for bottom contact gear as described in Federal Regulations (Title 50, Part 660, Subpart F).
20. Fishing activities shall not occur in any state Marine Protected Areas pursuant to Section 632, Title 14, CCR.

Hagfish

21. The authorized agents must suspend fishing operations or move fishing gear when directed by the Department in response to circumstances including elevated entanglement risk or in the event of an entanglement report in the fishing or testing location. The Department will provide notice by contacting each authorized agent via the phone and/or email address provided on the EFP application.
22. Fishing operations shall abide by all applicable Essential Fish Habitat closures for bottom contact gear as described in Federal Regulations (Title 50, Part 660, Subpart F).
23. Fishing activities shall not occur in any state Marine Protected Areas pursuant to Section 632, Title 14, CCR.



Gear Allowances, Specifications and Marking Requirements

Dungeness Crab

24. Authorized agents shall not affix buoy tags specified in subsection 132.1(b), Title 14, CCR and FGC Section 8276.5 to gear deployed under this EFP. Deployed gear shall include a trap tag as defined in subsection 132.1(a), Title 14, CCR.
25. A maximum of 150 units of timed- and acoustic-release pop-up gear per vessel may be possessed or deployed per trip at any time when taking or attempting to take crab.
26. A maximum of 150 traps per vessel may be possessed or deployed per trip at any time when taking or attempting to take crab. This limitation shall not apply to lost or abandoned gear recovered pursuant to Sections 132.2, Title 14, CCR.
27. All authorized agents must comply with the following requirements with respect to deployment of the authorized pop-up gear fishing systems.
 - a. When fishing single traps, each trap shall be marked by a single line and buoy.
 - b. When fishing a string of traps (“trawl”), no more than ten traps shall be deployed when attached to a single string and the terminal traps shall be marked with a single line and buoy.
28. All traps must comply with the requirements specified in FGC Section 9011 for Dungeness crab or rock crab. All traps used or deployed must have at least one destruct device pursuant to FGC Section 9003.
29. The permittee shall provide the Department access to the gear marking web-based application (Trap Timer app) and the Ropeless Regulatory Web Portal, as identified in the EFP application for data sharing and enforcement purposes.
30. For the interval between gear deployment and activation of the pop-up mechanism, authorized agents shall be exempted from the requirements to mark each trap with a buoy as defined pursuant to FGC Section 9005 and Sections 132.6(a) and 180.5, Title 14, CCR. Following release of the pop-up mechanism as identified in the EFP application, the location of each trap shall be indicated by the presence of one or more buoys at the surface, as specified in conditions 32 and 33.
31. The main buoy and any trailer buoys shall be marked with the operator’s commercial fishing license identification number. All identification numbers shall be at least one and one-half (1.5) inches in height and drawn with a line no less than 1/4 (0.25) inch thick.
32. Buoy markings shall comply with requirements specified in Section 180.5, Title 14, CCR. Every buoy attached to crab gear pursuant to this EFP shall be marked exclusively with the operator's commercial fishing license identification number followed by the Identification Letters “ES.”
 - a. Buoys that are 4 inches in diameter or greater shall have Identification Letters marked on four opposing sides.



- b. Buoys that are smaller than 4 inches in diameter shall have Identification Letters marked on two opposing sides.
- c. The commercial fishing license identification number shall be at least 1.5 inches in height and drawn with a line no less than 0.25 inch thick.
- d. The Identification Letters “E” shall be at least 3 inches in height and drawn with a line no less than 0.25 inch thick.
- e. All Identification Numbers and Identification Letters on a buoy shall be clearly and distinctly marked, and in a color that contrasts with the buoy: the numbers and letters shall be applied and maintained so that they are visible and legible.

33. Buoy Line Marking Requirements. The authorized agents will test and report on the efficacy and durability of marking lines when requested by the Department.

34. Pursuant to FGC Section 9004, authorized agents shall service their traps at intervals not to exceed 96 hours, weather conditions at sea permitting, unless otherwise authorized in writing by the Department. Additionally, when using gear where a pre-programmed timer device serves as the primary release mechanism, authorized agents must service their traps within two hours of the selected release interval, weather conditions at sea permitting.

Hagfish

35. This permit exempts the agents from prohibition of pop-up gear as specified in Title 14, Section 180.6 (b) CCR.

36. For the interval between gear deployment and activation of the pop-up mechanism, authorized agents shall be exempted from the requirements to mark each trap with a buoy as defined pursuant to FGC Section 9005 and Sections 132.6(a) and 180.5, Title 14, CCR. Following release of the pop-up mechanism as identified in the EFP application, the location of each trap shall be indicated by the presence of one or more buoys at the surface, as specified in conditions 32 and 33.

37. As specified in Title 14, Section 180.6 (b) CCR no more than a total of 25-barrel traps per vessel may be possessed or deployed per trip. Each barrel trap shall be no greater than 45 inches in total length and have an outside diameter no greater than 25 inches at its widest point. Barrels may be attached to a maximum of three ground lines. If using barrel traps, no other hagfish trap type may be used or possessed aboard the vessel. When barrel traps are used or possessed aboard a vessel, no species of finfish other than hagfish shall be taken, possessed, or sold. All openings in traps used to take hagfish, excluding the entrance funnel, shall have a minimum diameter of 9/16 inch in any dimension.

38. All authorized agents must comply with the following requirements with respect to deployment of the authorized pop-up gear fishing systems.

- a. When fishing barrel traps, a maximum of up to three ground lines may be utilized.



- b. The ends of the string will be marked with:
 - a. the pop-up gear fishing system on one end and a single line and buoy on the other.
 - b. or a pop-up gear fishing system on both ends.
39. All traps used or deployed must have at least one destruct device pursuant to FGC Section 9003.
40. The permittee shall provide the Department access to the gear marking web-based application (Trap Timer app) and the Ropeless Regulatory Web Portal, as identified in the EFP application for data sharing and enforcement purposes.
41. Authorized agents shall comply with buoy marking requirements as defined in Title 14, Section 180.6 (c) CCR. In addition, every buoy attached to hagfish gear pursuant to this EFP shall be marked exclusively with the operator's commercial fishing license identification number followed by the Identification Letters "EH" followed by."
 - a. Buoys that are 4 inches in diameter or greater shall have Identification Letters marked on four opposing sides.
 - b. Buoys that are smaller than 4 inches in diameter shall have Identification Letters.
 - c. The commercial fishing license identification number shall be at least 1.5 inches in height and drawn with a line no less than 0.25 inch thick.
 - d. The Identification Letters "E" shall be at least 3 inches in height and drawn with a line no less than 0.25 inch thick.
 - e. All Identification Numbers and Identification Letters on a buoy shall be clearly and distinctly marked, in a color that contrasts with the buoy, and the numbers and letters shall be applied and maintained so that they are visible and legible.
42. Buoy Line Marking Requirements. The authorized agents will test and report on the efficacy and durability of marking lines when requested by the Department.
43. Pursuant to FGC Section 9004, authorized agents shall service their traps at intervals not to exceed 96 hours, weather conditions at sea permitting, unless otherwise authorized in writing by the Department. Additionally, when using gear where a pre-programmed timer device serves as the primary release mechanism, authorized agents must service their traps within two hours of the selected release interval, weather conditions at sea permitting.

Other Requirements

44. No testing or fishing for crab or hagfish may take place unless a functioning electronic monitoring system is installed and used as specified by the Department. The electronic monitoring system must be a satellite or cellular based system designed to monitor location and movement of vessels using global positioning system (GPS) coordinates. The electronic monitoring system must be capable of accurately tracking and recording vessel location at a frequency of no less than once a minute without interruption during



the entire fishing trip when participating in fishing operations covered under this EFP, including transiting to and from fishing area. Vessel location data shall be uploaded automatically and made available to the Department or an authorized agent within 24 hours. Authorized agents shall grant the Department access to all data upon request.

45. 24 hours prior to commencing a fishing trip during which EFP activity is expected to be conducted, notice of vessel name, targeted fishery, anticipated fishing dates, port of departure, and expected landing port shall be made via email to the Department's Law Enforcement Division (LEDMarineNotifications@wildlife.ca.gov) and Marine Region (WhaleSafeFisheries@wildlife.ca.gov). Upon request from the Department, authorized agents shall coordinate with the Department and allow for inspections of the traps and associated gear prior to deployment or when gear is being serviced at sea.
46. Authorized agents shall follow the best practices for avoiding whale entanglement described in the attached guide. This includes fishing gear and incident reporting requirements.
47. The permittee shall provide training to Department personnel on any aspect of the permitted project on request.
48. The permittee shall comply with data reporting requirements as described in Attachment A.
49. The vessel shall be capable of safely carrying an observer when requested by the Department and provide that observer with accommodations equivalent to those provided to the captain and crew for both single and multi-day trips if multi-day trips are conducted. The observer shall be permitted to collect additional opportunistic biological data.
50. The permittee shall adhere to the gear recovery plan as described in the EFP application. The permittee will further document all lost gear, including traps, buoys and other equipment and submit annually to the Department. Failure to keep or submit required information may result in revocation or suspension (including non-renewal) of the permit.
51. Unless otherwise specified by the Department, the permittee shall submit reports pursuant to subsection 91(I), Title 14, CCR to the EFP Coordinator (EFP@wildlife.ca.gov) no later than 60 days after the permit expiration date.



Attachment A: Data Reporting Requirements

Dungeness Crab

1. **Deployment Data.** Permittee or authorized agent shall provide to the Department as soon as practical, but no more than 12 hours after deployment, the following data for each crab trap deployed:
 - a. The latitude and longitude of each trap, given to the highest precision allowed by onboard instrumentation (“location”). If multiple traps are deployed on a single line (“trawl”), the number of traps in the trawl, and the location of the first and last traps of the trawl.
 - b. The name and vessel ID of the vessel the trap was deployed from.
 - c. The experimental fishing permit number the trap is deployed under.
 - d. The time and date of deployment.
 - e. The time and date of the release mechanism is programmed to allow the marker buoy to surface.
2. **Recovery Data.** Permittee or authorized agent shall provide to the Department as soon as practical, but no more than 12 hours after recovery or attempted recovery, the following data for each crab trap deployed:
 - a. The time and date of recovery.
 - b. The location the gear was recovered.
 - c. The distance between the location where the gear was deployed and recovered.
 - d. The time elapsed between the programmed release time and recovery.
 - e. The location of any unrecovered traps.
3. **Gear Location Marking.** The permittee or authorized agent shall make fishing locations publicly available to other fishers and the public subject to direction of the Department. Communication of fishing location may include notification to local harbor districts and to the Department’s web pages, and/or other publicly accessible web pages. Via the Trap Timer gear marking app the permittee or authorized agent shall make available the following information for the purpose of avoiding gear conflict:
 - a. The location of deployed traps.
 - b. The location of the first and last traps in a trawl, as well as an indication that they are part of a trawl.
4. In addition to the requirements of subsection 91(l), Title 14, CCR, annual and final reports shall include:
 - a. A table or other database containing deployment and recovery data (requirements 1 and 2 of this attachment) for each trip conducted under the authority of this permit.
 - b. A summary of landing data including the number of each crab species landed at each port by each vessel.
 - c. The number of trips conducted by each vessel participating in the EFP, the total number of trap deployments, and the number of unsuccessful recoveries.



- d. A summary of the efforts taken to recover lost gear, and the outcome of those efforts.

Hagfish

1. Deployment Data. Permittee or authorized agent shall provide to the Department as soon as practical, but no more than 12 hours after deployment, the following data for each fish trap deployed:
 - a. The latitude and longitude of the first and last traps, the number of barrel traps in each string, given to the highest precision allowed by onboard instrumentation (“location”).
 - b. The name and vessel ID of the vessel the trap was deployed from.
 - c. The experimental fishing permit number the trap is deployed under.
 - d. The time and date of deployment.
 - e. The time and date of the release mechanism is programmed to allow the marker buoy to surface.
2. Recovery Data. Permittee or authorized agent shall provide to the Department as soon as practical, but no more than 12 hours after recovery or attempted recovery, the following data for each string deployed:
 - a. The time and date of recovery.
 - b. The location the gear was recovered.
 - c. The distance between the location where the gear was deployed and recovered.
 - d. The time elapsed between the programmed release time and recovery.
 - e. Any gear deployment failures.
 - f. The location of any unrecovered traps.
3. Gear Location Marking. The permittee or authorized agent shall make fishing locations publicly available to other fishers and the public subject to direction of the Department. Communication of fishing location may include notification to local harbor districts and to the Department’s web pages, and/or other publicly accessible web pages. Via the Trap Timer gear marking app, the permittee or authorized agent shall make available the following information for the purpose of avoiding gear conflict:
 - a. The location of deployed traps.
 - b. The location of the first and last barrel traps in the string.
4. In addition to the requirements of subsection 91(l), Title 14, CCR, annual and final reports shall include:
 - a. A table or other database containing deployment and recovery data (requirements 1 and 2 of this attachment) for each trip conducted under the authority of this permit.
 - b. A summary of landing data including the pounds of hagfish landed at each port by each vessel.
 - c. The number of trips conducted by each vessel participating in the EFP, the total number of string deployments, any deployment failures, and the number of unsuccessful recoveries.



- d. A summary of the efforts taken to recover lost gear, and the outcome of those efforts.