

***Issued MBNMS Permits, Amendments and Authorizations
(6/16/2020 to 8/5/2020)***

Report created for the

August 21, 2020

Monterey Bay National Marine Sanctuary Advisory Council Meeting

MBNMS-2019-030

Permit Type: Authorization

Permit Holder Name (Affiliation): Christopher Eng (United States Army Corps of Engineers)

Authorized Activity Description: for Moss Landing Harbor Federal Channels Dredge Material Disposal Activities by the U.S. Army Corps of Engineers (USACE), San Francisco District.

Authorized Activity Location: SF-12 and adjacent area for the temporary transport pipeline and sediment samples

Permitted dates: August 5, 2020 through December 31, 2020

MULTI-2019-020-A2

Permit Type: Research/Education

Permit Holder Name (Affiliation): Barbara Block and Taylor Chapple (Stanford University, Hopkins Marine Station)

Project Title: Ecology and Population Dynamics of White Sharks in the Northeastern Pacific

Project Location(s):

WHITE SHARKS

Within GFNMS: White shark attraction activities are permitted outside of 300 feet and within two (2) nautical miles of the Southeast Farallon Islands; and Filming activities may occur in the same regions of the sanctuaries as all permitted White shark research activities listed above. Filming white sharks attracted to the vessel will only occur in conjunction with the authorized research activities in the authorized locations listed in this amended permit. Filming activities shall occur above the water; no diving or use of cages is allowed.

Within MBNMS: White shark attraction activities are permitted offshore of Año Nuevo Island only; white shark attraction should not be conducted in Monterey Bay; White shark tagging, biopsy and photo ID activities may occur at Año Nuevo Island each year this permit is valid; White shark tagging, biopsy and photo ID activities may occur in Monterey Bay only during the 2020 field season and the permittee shall not deploy more than 10 acoustic tags and three pop-up tags on white sharks and shall not obtain more than 15 biopsy sample from white sharks; Filming activities may occur in the same regions of the sanctuaries as all permitted white shark research activities listed above. Filming white sharks attracted to the vessel will only occur in conjunction with the authorized research activities in the authorized locations listed in this amended permit. Filming activities shall occur above the water; no diving or use of cages is allowed; VR2AR acoustic release receivers may be deployed at two locations: 1) nearshore in

northern Monterey Bay between La Selva Beach and Capitola; and 2) within 500 meters of the U.S. Coast Guard Pier in Monterey Harbor (outside of the Edward F. Ricketts State Marine Conservation Area (SMCA)); The permittees are allowed to conduct approximately 100 overflights by Unmanned Aircraft System (UAS) (either a DJI Phantom 4 Pro-4 rotor quadcopter or similar model) at no less than 50 feet Above Sea Level (ASL) and within the NOAA regulated overflight zone offshore of Moss Landing between during the 2020 field season (i.e. until December 31, 2020) during daylight hours (please see pre-survey notification requirements in Special Terms and Conditions).

OTHER PELAGIC SHARK SPECIES: Daily oceanographic conditions will dictate where efforts will be made. As these animals are pelagic species, research efforts will likely be in offshore waters where conditions are optimized for interactions with target animals. However, on some occasions, oceanic conditions can present closer to shore. Attraction or tagging will not occur closer than 1 nm from the main shoreline.

Permitted Activity:

VR2AR Acoustic Release Receivers

1. Altering the submerged lands of the sanctuaries for the installation, maintenance, and removal (when feasible) of the anchors for a total of two (2) bottom-mounted VR2AR acoustic release receivers (approx. 397 mm x 342 mm) attached to a small float (buoy) suspended approximately 1.5 meters off the seabed in MBNMS.
2. Abandoning into the sanctuaries up to six (6) iron anchors (consisting of unpainted 25-35 kg biodegradable iron plates) that are used to anchor the VR2 receivers. All receivers and releases (lugs attached to receivers) will float the surface upon release and the small buoy and receivers will be recovered.

White Shark Attraction, Tagging, ID, Sampling and Filming

1. Attracting White sharks (*Carcharodon carcharias*) for the purposes of tagging, obtaining photographic and video images, and taking biopsy samples of White sharks in the following locations with the following limitations (please see pre-survey notification requirements in Special Terms and Conditions):

- a) No more than 45 external acoustic tags (approx. 15 per each year this permit is valid) and 45 pop-up satellite archival tags (PAT) (approx. 15 per each year this permit is valid) may be deployed on the sharks' dorsal musculature throughout all locations authorized in this permit. (NOTE: A maximum of 10 acoustic tags and three PAT tags may be deployed on white sharks in Monterey Bay only during the 2020 field season and no attraction is allowed in this location; attraction and tagging is allowed at Southeast Farallon Island and around Año Nuevo Island each year this permit is valid).
- b) No more than 9 internal stomach tags (approx. 3 per each year this permit is valid) may be deployed by means of feeding sharks the tags embedded in a small piece of marine mammal blubber (less than 3 kilogram [kg]).
- c) No more than 21 biologging clamp tags (approx. 7 per each year this permit is valid) may be deployed by using non-invasive dorsal fin clamps.

d) No more than 150 tissue samples (approx. 50 per each year this permit is valid) shall be taken using a small biopsy punch. These samples shall be taken in conjunction with the acoustic and satellite tagging.

White shark attraction, tagging and biopsy activities can be conducted near Southeast Farallon Island and around Año Nuevo Island.

2. Discharging into the sanctuaries scent from marine mammal blubber for attracting White sharks.
3. Temporarily discharging into the sanctuaries PAT tags, stomach tags, and clamp tags (intended to be retrieved although some may be lost to the marine environment) and permanently discharging acoustic tags (not intended to be retrieved) into the sanctuaries.
4. Filming of White sharks for documentary and educational films by the permittees is authorized in conjunction with the White shark research activities being conducted by Dr. Barbara Block and Dr. Taylor Chapple, and authorized personnel in accordance with permit number MULTI-2019-020-A2.

White shark attraction methods are limited to use of a decoy made of a soft material shaped into the silhouette of a local marine mammal and use of a small (i.e., less than 3 kg) piece of pinniped or cetacean blubber as specified in the Special Terms and Conditions of this permit. Attraction of white sharks is authorized only by these means and solely for the purpose of scientific research (e.g., sport, recreational viewing, and unauthorized film making are prohibited).

UAS Operations in Monterey Bay

The permittees are allowed to conduct approximately 100 overflights by Unmanned Aircraft System (UAS) (either a DJI Phantom 4 Pro-4 rotor quadcopter or similar model) at no less than 50 feet Above Sea Level (ASL) and within the NOAA regulated overflight zone offshore of Moss Landing between during the 2020 field season (i.e. until December 31, 2020) during daylight hours (please see pre-survey notification requirements and other details in Special Terms and Conditions).

Attracting and Tagging Other Pelagic Shark Species

1. Discharging chum to attract blue sharks (*Prionace glauca*), common thresher (*Alopias vulpinus*) and shortfin mako sharks (*Isurus oxyrinchus*).
2. Discharging and recovering no more than 27 pop up satellite archival tags (three PAT tags on each shark species listed above per each year this permit is valid).
3. Discharging no more than 27 SPOT tags (three SPOT tags on each species listed above per each year this permit is valid).
4. Discharging and recovering 27 daily diary biologging camera tags on blue sharks (three clamp tags on each species listed above per each year this permit is valid).

Permitted dates: August 4, 2020 to November 30, 2022

Comments/Notes: GFNMS lead; The permittee has been issued a scientific collection permit (SCP) from the California Department of Fish and Wildlife (CDFW). S-191290003-19129-001 is valid through 9/15/2022.

MBNMS-2020-014

Permit Type: Authorization

Permit Holder Name (Affiliation): Matthew Keeling (Central Coast Regional Water Quality Control Board)

Authorized Activity Description: for the National Pollutant Discharge Elimination System (NPDES) Permit No.CA0006254/ Order No. R3-2020-0031 for the Reissuance Waste Discharge Requirements for Dynegy Moss Landing, LLC Moss Landing Power Plant, located in Moss Landing, Monterey County

Authorized Activity Location: Discharge Point No. 002 is located in Monterey Bay adjacent to MBNMS and the zone of influence of the effluent is within MBNMS.

Permitted dates: September 4, 2020 through September 3, 2025

MBNMS-2020-011

Permit Type: Research

Permit Holder Name (Affiliation): Kyle Shanebeck (University of Alberta)

Project Title: Acanthocephalan infection in Marine Invertebrates: a hidden connection to sea otter disease.

Project Location(s): Soft substrate in MBNMS at approximately 60 feet in depth at four sites: Edward F. Ricketts State Marine Conservation Area (SMCA); Lovers Point - Julia Platt State Marine Reserve (SMR), Capitola State Beach area, and Elkhorn Slough

Permitted Activity: to investigate internal parasite effect on southern sea otters, invertebrates and ecosystem dynamics are authorized by this permit: Placement of up to six crab traps on the submerged lands of the Sanctuary at each of the four research sites for up to eight days total per site, Discharge and recovery of line and buoys associated with the traps, Discharge of bait in the traps, and Alteration of the submerged lands of the Sanctuary to dig for clams using a hand shovel

Permitted dates: July 7, 2020 through December 1, 2021

Comments/Notes: Permittee has a Scientific Collecting Permit (SCP) from the California Department of Fish and Wildlife. Specific Use Permit ID: S-183110004-20062-001 for "Parasites of Sea Otters in Intermediate hosts" is effective from 4/13/2020 to 4/13/2021.

MBNMS-2020-017

Permit Type: Research

Permit Holder Name (Affiliation): Joseph Tomoleoni (United States Geological Survey)

Project Title: Population Dynamics and Biology of Sea Otters

Project Location(s): MBNMS

Permitted Activity: Discharging into the sanctuary up to 600 external flipper tags, up to 150 smart flipper tags (i.e. e-flipper tags), up to 300 internal Passive Integrated Transponders (PIT) tags and up to 150 VHF Radio Transmitters. The permittee will attempt to recover all tags. And, Discharge of the tangle net and associated lines and large float buoys and placement of up to two (2) associated anchors on the submerged lands of the sanctuary to conduct multiple projects related to the population biology and ecology of southern sea otters (*Enhydra lutris nereis*). The tangle net, buoys, lines and anchors will be recovered.

Permitted dates: June 10, 2020 through June 10, 2025

Comments/Notes: Activities are authorized under U.S. Fish and Wildlife Service Permit MA672624-20 and the permittee has requested a renewal of this permit.

If you are interested in learning more about a specific permit, amendment or authorization action, please contact:

Sophie De Beukelaer

Permit Coordinator and GIS Specialist
Monterey Bay National Marine Sanctuary
99 Pacific Street, Building 455A
Monterey CA 93940
Phone: (831) 647-1286
sophie.debeukelaer@noaa.gov