

***Issued MBNMS Permits, Amendments and Authorizations
(6/4/2019 to 7/30/2019)***

Report created for the

August 15, 2019

***Joint Greater Farallones and Monterey Bay National Marine
Sanctuary Advisory Council Meeting***

MBNMS-2019-016

Permit Type: Research

Permit Holder Name (Affiliation): Salvador Jorgensen (Monterey Bay Aquarium)

Project Title: Understanding Recent Increased Juvenile White Shark Occurrence in Monterey Bay – A Thermal Refuge Hypothesis

Project Location(s): Northern Monterey Bay

Permitted Activity: Discharge of ten (10) biologging camera tag packages, which include clamps, to test the thermal refuge hypothesis at the individual behavioral scale of juvenile White Sharks. One of these tags can be used to tag a White Shark that has been disentangled in Monterey Bay. The electronics within the tag package are intended to be retrieved but the clamps will not always be retrieved and the clamps may be abandoned within MBNMS.

Permitted dates: July 24, 2019 through September 30, 2019

Comments/Notes: The permittee has been issued a scientific collection permit (SCP) from the California Department of Fish and Wildlife (CDFW). SC-1349 is valid through 8/22/2020.

MULTI-2017-010-A3

Permit Type: Research

Permit Holder Names (Affiliation): Dr. Mark Carr and Dr. Pete Raimondi (University of California, Santa Cruz)

Project Title: Partnership for Interdisciplinary Study of Coastal Oceans (PISCO)

Project Location(s): GFNMS and MBNMS

Permitted Activity: Alteration of the submerged lands and temporary discharge related to the installation, maintenance, and recovery of scientific instrumentation and equipment to conduct large scale, long-term subtidal and intertidal monitoring studies of coastal oceanographic processes, and rocky intertidal and kelp forest communities throughout the Sanctuaries.

Permitted dates: July 22, 2019 to April 1, 2021

Comments/Notes: Multiple Sanctuary permit for which MBNMS is the processing lead. Permittees have CDFW SCP and have had ONMS permits dating back to 1999. A3 included additional study sites; MBNMS Lead

MBNMS-2019-011

Permit Type: Survey/Inventory of Historical Resources Permit

Permit Holder Name (Affiliation): Chris Grech (Monterey Bay Aquarium Research Institute)

Project Title: Name Plate Identification of F8 Crusader Jet Engine Located in Monterey Bay, CA

Project Location(s): The J57 jet engine resides in 90 meters of water approximately 15 nm from the port of Moss Landing

Permitted Activity: Placement of ROV on submerged lands and moving or attempting to move a Sanctuary historical resource and if necessary, brushing the brass name plate, to obtain positive identification of a Pratt and Whitney J57 jet engine by visually assessing the name plate on the oil pump housing.

Permitted dates: July 18, 2019 through December 31, 2020

Comments/Notes: Section 106 of the National Historic Preservation Act requires federal agencies to consider the impact of their actions on historic properties. ONMS provided a memorandum to the California State Historic Preservation Officer (received on June 17, 2019) requesting review of and concurrence with NOAA's finding that this activity would have No Adverse Effect on historical resources per 36 CFR § 800.5(b). The SHPO responded by letter July 16, 2019 (File #NOAA_2019_0617_001) noting that their office concurs with NOAA's determination of no adverse effect to historic properties. Copies of the memorandum and the Section 106 Consultation Letter are on file with the permit record.

MBNMS-2019-015

Permit Type: Assist in Sanctuary Management

Permit Holder Name (Affiliation): James Nothhelfer (California Department of Parks and Recreation, Monterey District)

Project Title: Training for State Parks Motorized Personal Watercraft (MPWC) Search and Rescue Operations, Monterey District

Project Location(s): MPWC operator training areas are offshore of Carmel, Asilomar, Monterey/Seaside, Fort Ord, Salinas River, and Moss Landing and delineated on the attached maps based on the coordinates in permit; Discretionary access routes (that exclude surf zone transit) to the training areas from launch and recovery areas: Moss Landing Harbor, Salinas River State Beach (Potrero Road), Monterey Harbor, Asilomar State Beach, Stillwater Cove, Carmel City Beach, Point Lobos (Whalers Cove) Launch Ramp, and Point Sur – south side (during emergency response only); and Area Familiarization or Safety Patrols (at scheduled aquatic events identified in Special Term and Condition #6) between Pajaro River mouth and Garrapata Creek mouth.

Permitted Activity: Operation of motorized personal watercraft (as defined at 15 CFR 922.131) outside of established sanctuary MPWC operating zones for the purposes of emergency response proficiency training, area familiarization, and agency-mandated standby (safety patrols) at scheduled aquatic events.

Permitted dates: July 8, 2019 through July 8, 2023

Comments/Notes: N/A

MBNMS-2018-039-A1

Permit Type: Research

Permit Holder Name (Affiliation): Jan Freiwald (Reef Check California)

Project Title: Monterey Bay Urchin Experiment - Identify a threshold population density of purple sea urchins at Lovers #3 dive site at which giant kelp forests will re-establish.

Project Location(s): within the Pacific Grove Marine Gardens State Marine Conservation Area (SMCA)

Permitted Activity: Alteration of the submerged lands for the installation and removal of a total of approximately twenty (20) anchors, either epoxy/bolt anchors or earth anchors, each with one (1) associated PVC identification tag for up to twenty (20) tags to coordinate urchin monitoring and manipulation activities on the target reefs. If epoxy/bolt anchors cannot be removed without damaging the surrounding natural area, they may be abandoned. Placing a tripod with weights

attached to each leg on the submerged lands which can be optionally attached to a line or tape with a weight that has a line and buoy to the surface. Discharge and recovery of buoys with up to 50 feet of line attached to a weight to help navigate to the targets.

Permitted dates: July 18, 2019 through August 21, 2021

Comments/Notes: California Department of Fish and Wildlife (CDFW) Scientific Collecting Permit (SCP) 2018-005486 was approved by CDFW for research within the Pacific Grove Marine Gardens State Marine Conservation Area (SMCA) and expires 8/21/2021.

MBNMS-2018-007

Permit Type: Authorization

Permit Holder Name (Affiliation): Tommy Razzeca (Moss Landing Harbor District)

Project Title: Monterey Bay National Marine Sanctuary (MBNMS) Authorization MBNMS-2018-007 of California Coastal Commission Coastal Development Permit 3-16-0325 and Department of the Army Permit number 2002-263560S from the San Francisco District, U.S. Army Corps of Engineers (USACE) for Moss Landing Harbor District (MLHD) Dredging and Disposal Activities.

Project Location(s): Offshore of Moss Landing Harbor and SF-12 and SF-14

Permitted Activity: Disposal of clean, fine-grained (i.e., not sandy, less than or equal to 80% sand) material at SF-12 or SF-14. The dredged material may be pumped to the disposal site through a temporary pipeline to SF-12 or transported by barge to SF-14, as is most appropriate. All materials proposed for dredging must be tested according to the requirements of the U.S. Environmental Protection Agency (EPA), U.S. Army Corps of Engineers (ACOE) and the Central Coast Regional Water Quality Control Board (RWQCB), and analyzed to ensure the material is safe and suitable for aquatic disposal and/or beach replenishment. Sediment samples can also be collected within MBNMS, as necessary to address information needed for the Sediment Sampling and Analysis Plan and Sediment Analysis report since the plan is required by Special Condition #2 in CDP) 3-16-0325 and Standard Dredge Material Management Office (DMMO) Condition # 7a in Department of the Army Permit number 2002-263560S.

Comments/Notes: Previous permit MBNMS-2012-009

MULTI-2019-014

Permit Type: Research

Permit Holder Name (Affiliation): Josh Adams (United States Geological Survey)

Project Title: Southern California Current Seabird and Marine Mammal Aerial Photographic Surveys: 2018-2022

Project Location(s): Within NOAA Regulated Overflight Zones in CINMS and MBNMS.

Permitted Activity: Low overflights at a minimum of 750 feet Above Sea Level (ASL) to conduct survey transects for marine birds and mammals. See § 922.132 a(6) and § 922.72 a(7).

Permitted dates: June 18, 2019 through December 31, 2022

Comments/Notes: CINMS Lead

MBNMS-2019-014

Permit Type: Research

Permit Holder Name (Affiliation): Felicia Miller (Moss Landing Marine Laboratories)

Project Title: Testing *Mytilus californianus* byssal thread strength in wave exposed and wave protected sites

Project Location(s): Monterey Bay

Permitted Activity: Alteration of the submerged lands of the Sanctuary to drill into the hard substrate to temporarily install up to 102 bolts and use a razor to scrape the byssal threads off the substrate; and discharge and recover up to 12 dynamometers and attachments, up to 6

aluminum plates and associated temporary mesh fences to investigate if byssal thread strength or amino acid sequences are different in wave exposed and protected habitats and if changing the degree of wave exposure will result in a change in byssal thread strength.

Permitted dates: June 18, 2019 through September 30, 2019

Comments/Notes: The permittee has been issued a scientific collection permit (SCP) from California Department of Fish and Wildlife (CDFW) for monitoring scientific research (Specific Use Permit ID: S-182750005-18275-001)

MULTI-2019-009

Permit Type: Research

Permit Holder Name (Affiliation): Jeremy Goldbogen (Hopkins Marine Station)

Project Title: Long-term ecological research on cetaceans in national marine sanctuaries.

Project Location(s): Off the coast of Pacific Grove between 5 and 20 meters in depth

Permitted Activity: Flying an Unmanned Aerial System (UAS) at a minimum elevation of 10 meters and an average elevation of 23 meters within NOAA Regulated Overflight Zones in MBNMS, GFNMS and CINMS (note, there are no NOAA Regulated Overflight Zones in CBNMS), annual discharge of dart- attached tags (up to six (6) per species for minke, humpback, blue and fin whales) and up to 50 total suction-cup tags in MBNMS, GFNMS, CBNMS, and CINMS and take of marine mammals in federal marine reserves and marine conservation areas within CINMS to gain an understanding of the conservation physiology and ecology of cetaceans

Permitted dates: June 17, 2019 through July 31, 2021

Comments/Notes: Permitted take of marine mammals shall be consistent with NMFS permit number 21678 (expiration date is November 30, 2023) to Mr. Calambokidis of Cascadia Research Collective, NMFS permit number 20430 (expires March 31, 2022) to Dr. Harvey and NMFS permit number 19116 (expires June 30, 2021) to Dr. Southall; MBNMS Lead

MBNMS-2019-013

Permit Type: Research

Permit Holder Name (Affiliation): Derek Olson (Naval Postgraduate School)

Project Title: Measurement of roughness of rocky seafloors in Monterey Bay

Project Location(s): Off the coast of Pacific Grove between 5 and 20 meters in depth

Permitted Activity: Placement of a frame with a stereo camera system at up to ten (10) sites on the rocky submerged lands of the Sanctuary approximately ten (10) times per year to conduct seafloor roughness measurements.

Permitted dates: June 12, 2019 through December 31, 2021

Comments/Notes: Also applied for CDFW CDP and formal approval from ONR

MULTI-2019-003

Permit Type: Research

Permit Holder Names (Affiliation): James Behrens (University of California at San Diego, Scripps Institution of Oceanography)

Project Title: Coastal Data Information Program (CDIP) Waverider buoys in MBNMS and CBNMS.

Project Location(s):

1. San Francisco Bar buoy (NDBC Station 46237, CDIP 142):
37.786, -122.635, Depth=15.6 m (in MBNMS)
2. Monterey Bay West buoy (NDBC Station 46114, CDIP 185):
36.7167, -122.35, Depth=1463 m (in MBNMS)

3. Point Cabrillo buoy (NDBC Station 46240, CDIP 158):
36.6263, -121.9071, Depth=17.8 m (in MBNMS)
4. Point Sur buoy (NDBC Station 46239, CDIP 157):
36.3411, -122.1017, Depth=366 m (in MBNMS)
5. Point Reyes buoy (NDBC Station 46214, CDIP 029):
37.948, -123.468, Depth=550 m (in CBNMS)

Permitted Activity: This permit is limited to alteration of the submerged seafloor by deploying and retrieving five (5) research moorings, discharge of five (5) buoys and the associated moorings, and abandonment of anchors of each of those moorings every 6 (six) years (see Special Terms and Conditions for additional information) to measure coastal environmental data.

Permitted dates: June 12, 2019 through June 30, 2022

Comments/Notes: **MBNMS Lead;** Previous permits: MBNMS-2013-003, MBNMS-2013-003-A1, MBNMS-2013-003-A2, CBNMS-2015-001, CBNMS-2015-001-A1, CBNMS-2015-001-A2, CBNMS-2015-001-A3, and MULTI-2018-001

MBNMS-2017-033-A3

Permit Type: Authorization

Permit Holder Name (Affiliation): Michael Thomas (Caltrans)

Project Title: MBNMS authorization, MBNMS-2017-033-A3, for Caltrans Highway Repair at Mud Creek Landslide Complex, Post Mile Marker 8.8; Authorization of California Coastal Commission Emergency Coastal Development Permit (ECDP) G-3-19-0023.

Project Location(s): Mud Creek Landslide Complex

Permitted Activity: Monterey Bay National Marine Sanctuary (MBNMS) has reviewed the Emergency Highway Repair Interagency Notification submitted by Caltrans on February 6, 2019 updating information about highway repair activities at Monterey County Post mile Marker 8.8. We have also reviewed the signed California Coastal Commission Emergency Coastal Development Permit G-3-19-0023 issued on May 15, 2019 which continues to authorize adding and securing additional armor rock to the existing rock slope protection (RSP) over a 1,700-linear-foot distance of Highway 1 on the Big Sur coast just south of the town of Gorda (at post mile 8.8) installed under ECDP G-3-18-0005 to stabilize and protect the engineered embankment beneath the highway travel lanes. Boulders will be placed on top of the entire RSP to prevent over-topping and to protect the upland slope during periods of high tides and storms. ECDP G-3-18-0005 authorized the RSP to be 31 feet tall and ECDP G-3-19-0023 authorizes the RSP height to be increased up to 10 feet.

Permitted dates: May 15, 2019 through December 31, 2019

Comments/Notes: Previous permits MBNMS-2017-033, MBNMS-2017-033-A1 and MBNMS-2017-033-A2

MULTI-2019-008

Permit Type: Research

Permit Holder Names (Affiliation): Sandy Parker-Stetter (NOAA, NMFS, NWFSC)

Project Title: Integrated Ecosystem and Pacific Hake Acoustic-Trawl Summer and Winter Surveys; Investigations of hake ecology, survey methods, and the California Current ecosystem (summer research cruise)

Project Location(s): Within OCNMS, GFNMS, CBNMS, MBNMS, and CINMS, except as listed under the Special Terms and Conditions and in Attachment 1, Integrated Ecosystem and Pacific Hake Trawl Avoidance Areas within the West Coast National Marine Sanctuaries.

Permitted Activity: Alteration of the submerged lands of the sanctuaries incidental to conducting biennial integrated acoustic and trawl (IAT) surveys to assess the abundance, distribution, and biology of Pacific hake (*Merluccius productus*), except as specified in the Special Terms and Conditions of this permit and in Attachment 1; Take in CINMS Federal Reserves as part of the biennial IAT surveys.

Permitted dates: May 28, 2019 through January 9, 2022

Comments/Notes: CINMS Lead

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

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