



State of California – Department of Fish and Wildlife

SCIENTIFIC COLLECTING PERMIT, SPECIFIC USE – Permit

DFW 1379S (NEW 09/01/17)

Permit

Specific Use Permit ID: **S-191530001-19154-001**

Reference Title: **Monterey Bay Thermograph Array**

Effective Date: **9/19/2019**

Expiration Date: **9/18/2022**

Permitholder

EID-191530001: Catalina Marine Society

craig@catalinamarinesociety.org

15954 Leadwell St,

Lake Balboa, California 91406

Preferred Phone Number: 805-390-8866

Alternate Phone Number: 818-676-3112

Permitholder Affiliation: Catalina Marine Society

By signing this permit, the Permitholder agrees to the following:

"I certify that I have read, understand, and agree to abide by the applicable provisions of the Fish and Game Code, and Title 14, Section 650, CCR, and will abide by all the conditions and attachments of the issued permit. I understand I am legally responsible for ensuring all persons working under this permit will be adequately supervised, and comply with the requirements noted above. I further understand that if I fail to provide required reports, my permit may be suspended or revoked pursuant to Title 14, Section 650, CCR, and the Fish and Game Code."

Permitholder Signature: *Craig Selzer*

Date: *9/20/2019*



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SCIENTIFIC COLLECTING PERMIT, SPECIFIC USE – Permit

DFW 1379S (NEW 09/01/17)

Specific Use Permit Details:

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Reference Title: **Monterey Bay Thermograph Array**

Principal Investigator (PI):

Principal Investigator	PI Status	Approval Status	Conditions
SC-191510010: Craig Gelpi	Active	Approved	

Authorized Individuals (AI):

Authorized Individual	Role	Approval Status	Conditions
SC-191610003: Andrew Solomon	Mr. Solomon will perform much of the field work required.	Approved	

Approved Targeted Wildlife:

Inland Fisheries Wildlife:

Marine Wildlife:

Approved County	Approved Geographic Location	Approved Targeted Wildlife	Life Stage	Approved Quantity of Targeted Wildlife (Across all Locations)	Term of Take	Approved Method	Approved Procedure	Activity / Disposition	Approval Status	Conditions

Terrestrial Wildlife:

Permitholder Initials: CS

Approved Non-Targeted Wildlife (Incidental by-catch)

Inland Fisheries Wildlife:

Marine Wildlife:

Approved Non-Targeted Wildlife	Approved Quantity of Non-Targeted Wildlife	Approval Status	Conditions
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Terrestrial Wildlife:

Measures Minimizing Harm of Wildlife:

Method Details:

Taxonomic Group	Approved Methods	Details	Approval Status	Conditions
Marine	Bolt, Temporary; Hand Tools, Rocky Substrate; Hand Tools, Soft Substrate; Hand, SCUBA	<p>At each survey site two U22-0001 thermographs are deployed, one at 30 fsw (shallow sensor) and one at 60 fsw (deep sensor). If the site does not have a depth contour that supports both depth requirements, only one sensor will be deployed at the nearest depth.</p> <p>At each depth thermographs are attached to the seabed using one of two methods. For sandy substrates the thermographs are attached to the seabed using a sand screw/anchor. Using a 1/4" stainless steel anchor shackle, the thermograph is ziptied to the eye-bolt of the sand screw/anchor. For rocky reef substrates the thermographs are attached to the seabed using a small eye-bolt. The stainless steel eyebolt will be secured to the reef using a stainless steel bolt anchor. A small amount of underwater apoxy will then be applied around of the base of the bolt to prevent detachment/unthreading. Using a 1/4" stainless steel anchor schackle, the thermograph is ziptied to the eye-bolt. The eye-bolt will be used at the designated depth throughout the duration of the survey.</p> <p>A subsurface float will be attached to each thermograph marked to indicate that they are part of a research project and how to return the equipment to the permittee in case of equipment loss. Thermographs and floats will be retrieved/replaced at least twice a year and within the first available safe time-period after a major winter sotrm. In addition, we will conduct appropriate maintenance on all gear and equipment.</p> <p>All equipment authorized for installation under this project will be removed when such equipment is no longer in use.</p>	Approved	

Permitholder Initials: CS

Procedure Details:

Taxonomic Group	Approved Procedures	Details	Approval Status	Conditions
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Sacrifice of Wildlife Details:

Details:

Salvage of Wildlife Details:

Details:

Captivity of Wildlife Details:

Details:

Relocation of Wildlife Details:

Details:

Geographic Location Details:

Permitholder Initials: CS

Taxonomic Group	Approved County	Approved Locations	Details	Approval Status	Conditions
Marine	Monterey; Los Angeles	Cowell Beach; Moss Landing State Beach; Breakwater Cove Marina; Monastery Beach; Point Dume SMR	<p>Santa Cruz Pier (Cowell Beach), around 36 57' 31.3"N, 122 01' 29.0"W. Moss Landing, around 36 48' 38.9"N, 121 47' 35.1"W. Breakwater Cove, around 36 36' 35.7N, 121 53' 38.5"W. Monastery Beach, around 36 31' 26.1"N, 121 55' 44.1"W. Point Dume, around 33 99' 85.5"N, 118 80' 72.4"W.</p> <p>Thermographs will be deployed in the Edward F. Ricketts SMCA, the Point Lobos SMR, and the Point Dume SMR. Sites within the Monterey Bay were selected based on the need to capture data from each part of the bay (north, central, south), data from outside the bay, and a control site. Sites were also selected based on shore accessibility for diving. Being that the majority of shore accessible sites in and around the Monterey Bay are MPAs, the sampling cannot be conducted outside of an MPA. In order to reduce bias for our control site, we also selected an MPA in the southern California area that has sufficient shore accessibility for diving.</p> <p>The proposed methods for this activity are appropriate as they are minimally invasive to the underwater environment and do not pose a disturbance to the species populations. The thermographs will be retrieved/deployed at a frequency of approximately 6 month intervals.</p>	Approved	

Disposition Locations:

Name	Address	City	State	Zip Code	Details	Approval Status	Conditions
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Additional Permit Conditions:

All Standard Conditions for Scientific Collecting Permits: [SCP Standard Conditions](#)

Condition Title	Condition
Marine Condition 1. Notification of Field Work or Activity.	<p>When collecting marine species anywhere in the state Student Permitholders, and Principal Investigators, or any Authorized Individual on an Entity or Individual permit shall notify the Department Law Enforcement offices and Department regional contacts at least 36 hours, but not more than 14 calendar days, prior to conducting permitted activity(ies) in the field, unless otherwise specified in the conditions of the permit, all fields on this form are required. Please fill out Form 1379b (Notification of Field Work or Activity) and submit to the SCP Portal.</p> <p>In Section 1 of Form 1379b, please input the following in each related text box: To Department: Law Enforcement Contact Name: Marine Law Enforcement Enforcement Email: R7monterey.frontoffice@wildlife.ca.gov Other Department Contact Name: Steve (James) May Other Department Email: james.may@wildlife.ca.gov</p>
Marine Condition 2. Mandatory Wildlife Report.	<p>Pursuant to Title 14 California Code of Regulations (CCR) subsection 650(p), this Mandatory Wildlife Report (MWR) is required to be filled out completely and submitted for any wildlife taken or possessed via a Scientific Collecting Permit (SCP) issued by the Department of Fish and Wildlife (Department). Subsection 650(p) states: "Failure to submit required information or reports shall result in revocation of an existing permit and may result in denial of subsequent applications by that Permitholder or may result in denial of future approval as an a Permitholder or Authorized Individual on other permits, pursuant to subsection 1002(m) of the Fish and Game Code." Please review the specific conditions of your permit to determine if you have any other reporting requirements (e.g., a written report or data), consistent with Title 14 CCR subsection 650(p)(A-F).When completing Form 1379a (Scientific Mandatory Wildlife Report) to report collections for this permit, please review all instructions and identify the species to the lowest taxonomic level and be specific as to what species and numbers were placed in captivity, sacrificed, caught and released, etc. Also, please separate what was caught in an MPA and what was caught outside of an MPA. Collection reports should be uploaded to the SCP Portal.</p>

Permitholder Initials: 

Condition Title	Condition
Marine Condition 3. Prohibited Marine Organism List.	The following are NOT AUTHORIZED under the Marine Authorizations and may not be taken: bluefin tuna, broomtail grouper, eulachon, garibaldi, giant sea bass, gulf grouper, Pacific halibut, bronzespotted rockfish, canary rockfish, cowcod, yelloweye rockfish, salmon, steelhead, basking shark, leopard shark, megamouth shark, scalloped hammerhead, white shark, delta smelt, longfin smelt, sturgeon, tidewater goby, abalone, live rock, speckled (Bay) scallop, lobster, sunflower seastar, ochre/purple seastar, morning sun star, mottled seastar, giant pink seastar, surfgrass, eelgrass, and sea palm.
Marine Condition 4. Principal Investigator or Authorized Individuals must be present during the activities.	If you are the Principal Investigator or are listed on this permit as an Authorized Individual and if you have any person(s) assisting with a scientific collecting project or activity, you are required to be present and overseeing the activities as described and must be in possession of a copy of your permit.

Permitholder Initials: CB



STANDARD CONDITIONS FOR ALL SCIENTIFIC COLLECTING PERMITS

Pursuant to California Fish and Game Code (FGC) Sections 1002, 1002.5 and 1003, and Title 14 California Code of Regulations (CCR), Section 650, the Permitholder is authorized to take and/or possess wildlife according to the authorizations, conditions and restrictions listed on the Scientific Collecting Permit (SCP or permit) issued by the California Department of Fish and Wildlife (Department). These Standard Conditions apply to all General and Specific Use level permits for all Permitholders, Authorized Individuals¹, and any unnamed Field Assistants conducting activities under a SCP. The Department may revoke, suspend, or unilaterally amend or modify, or deny a permit for failure to comply with the authorizations, conditions or restrictions of the permit, or for other reasons listed in Title 14 CCR, subsection 650(s).

- A. **Possession of Identification.** Authorized Individuals named or covered on the List of Authorized Individuals shall carry in their possession a valid, government-issued photo identification card at all times when conducting any activity authorized by an SCP pursuant to Title 14 CCR, subsection 650(a)(2).
- B. **Permit Documents.** All Authorized Individuals shall carry in their possession a copy of the SCP, and all other required permit documents, pursuant to Title 14 CCR, subsection 650(a)(3).
- C. **Take and Possession Limits/ Allowances.** Permitholders shall always ensure strict compliance with limits and allowances granted by the permit. The limits described in the permit apply to the entire permit and are shared cumulative across the Permitholder and all Authorized Individuals.
- D. **Department Lands.** Prior to entering the following types of Department lands, or other managed areas, to conduct any permitted activities, the Permitholder shall first receive written authorization from the Regional Manager or their designee for the particular area, unless otherwise specifically conditioned in your SCP: Wildlife Area, Ecological Reserve (Title 14, Section 630 CCR, subsection 550(a)(4), and subsection 550(f)), Marine Managed Areas, and Marine Protected Areas (MPAs) (Title 14, CCR Section 632, and Public Resources Code 36602) (i.e., State Marine Reserve, State Marine Conservation Area, State Marine Park, State Marine Recreational Management Area), State Reserve, Marine Life Refuge (FGC Section 10500), Fish Refuge, Rockfish Conservation Area, or Cowcod Conservation Area (Title 14, Section 27.20 through 29.85, CCR).
- E. **Landowner Permission.** The Permitholder is responsible for obtaining permission from the owners and managers of all properties, whether public or private, prior to entering to conduct the activities authorized by the permit. It is the responsibility of the Permitholder to know the boundaries and managing authority of designated protected areas (e.g., State Parks, National Wildlife Refuges, National Parks, National Marine Sanctuaries, etc.).
- F. **Notification of Field Work or Activity.** The Student Permitholder, and the PI, or any Authorized Individual on an Entity and Individual permit, shall notify the Department at least 36 hours, but not more than 14 calendar days, prior to conducting permitted take and/or possession activity(ies) in the field, unless otherwise specified in the conditions of the permit. Additional requirements pursuant to Title 14 CCR, subsection 650(o) apply. The Permitholder shall complete all fields on the Notification of Field Work or Activity form (DFW 1379b) and electronically send the form to Law Enforcement Division contacts, Regional office(s), Regional Biologists, or other contacts, as specified in the permit conditions.
- G. **Reporting Requirements.** Permitholders shall carry the Mandatory Wildlife Report (MWR) form DFW 1379a, or required information fields, in a paper or electronic format while conducting activities pursuant to the permit, and shall record the information during, or upon completion of, each collecting event. Permitholders are required to submit the MWR form within 30 days following the expiration of the permit, or sooner if submitting an application to renew an SCP, whichever comes first, or as required by the Authorizations or conditions in the permit. The MWR is mandatory even if no wildlife was taken or possessed see form DFW 1379a instructions for specifics on how to complete the form).
- H. **California Endangered Species Act and Fully Protected Species.** No person shall intentionally take or possess any State-Threatened and or Endangered, or State-designated Candidate wildlife under the California Endangered Species Act, or any Fully Protected species, without a valid Memorandum of Understanding (MOU), permit, or other written authorization from the Department pursuant to Fish and Game Code Section 2050 *et seq.*, Title 14 CCR, subsections 670.7 and/or 786.9. If any Threatened, Endangered, Rare, or Candidate, or Fully Protected species are

¹"Authorized Individual" means the Permitholder, the Principal Investigator, or any other person approved by the Department to independently conduct any permitted activity(ies) authorized by the permit, and who is named or covered on the permit's List of Authorized Individuals (LAI) (Title 14, CCR subsection 650(b)(2)).

Permitholder Initials: *CR*



taken inadvertently or incidentally (e.g., by-catch) as a result of activities authorized by an SCP, then any such wildlife shall be immediately released alive and unharmed at the site of capture without further handling, unless otherwise authorized by the Department. You shall follow additional Department notification and reporting requirements for any incidental capture, injuries and mortalities of these species, as outlined in your SCP conditions, and you may be required to temporarily cease field activities and obtain a MOU.

- I. **California Natural Diversity Database (CNDDDB).** Data collected during SCP activities for species on the Special Animals and the Special Plants, Bryophytes and Lichens lists (<https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>) should be submitted directly to the CNDDDB. Data may include field observations of wildlife listed as Threatened, Endangered, or Candidate under the California Endangered Species Act, Fully Protected species, California Species of Special Concern, or other special animals and plants. Please see the CNDDDB webpage for information on appropriate submission methods (<https://www.wildlife.ca.gov/Data/CNDDDB>). The preferred method of data submission for individual observations is the CNDDDB Online Field Survey Form. The CNDDDB accepts data in a range of other formats- see submission guidelines for alternatives and guidance for larger digital datasets.
- J. **Fishing, Hunting, and Falconry.** Sport or commercial fishing, hunting, falconry, trapping, and/or take activities authorized by another Department permit shall not occur on the same trips or time periods as scientific activities, unless otherwise authorized by this SCP.
- K. **Commercial or Personal Use.** The commercial sales, trade, or barter of wildlife taken under a SCP is prohibited, pursuant to Title 14 CCR, subsection 650(a)(5). Personal or human consumption of wildlife taken under an SCP is prohibited, unless specifically allowed by conditions of the permit.
- L. **Other Laws and Permits.** The SCP does not relieve the Permitholder or any Authorized Individual of the responsibility to comply with any other federal, tribal, state, or local law or regulation. The SCP does not relieve the Permitholder or any Authorized Individual of the responsibility to obtain any other tribal, federal, tribal, state, or local permits that may be required. This SCP is invalid unless accompanied by any other required permits for the authorized activities.
- M. **Labeling of Vessels, Vehicles, and Capture Equipment.** All traps, nets, and other capture or research equipment shall be marked with a tag or label that legibly shows the Permitholder's Identification Number (SC-ID) and/or other permit ID, as well as the word "Research," or as otherwise outlined in permit conditions, before placing the equipment in the field. Labeling of vessels is mandatory for MPAs, and labeling of other vessels, vehicles, or aircraft may be required at the Department's discretion, as outlined in your permit conditions.
- N. **Transfer of Possession.** Persons or entities receiving accidentally killed or legally acquired dead wildlife and/or parts thereof possessed pursuant to Title 14 CCR, Section 650 may be named as recipients of those wildlife on the permit itself. A completed Chain of Custody form (DFW 1379c) documenting the transfer(s) of live or dead wildlife and/or parts thereof shall accompany wildlife at all times, including during transport. Live wildlife may only be possessed with a valid permit issued by the Department. Subsequent transfers of such dead wildlife and/or parts thereof to another recipient shall also be documented and accompanied by form DFW 1379c. Reporting of such transfers via DFW 1379c shall occur as specified in the original Permitholder's permit conditions as the donor, as required form DFW 1379c for reporting by a subsequent recipient acting as a donor, or as otherwise stated by Title 14 CCR, subsection 650(p).
- O. **Release of Wildlife.** Unless otherwise authorized by the Department, all captured wildlife shall be immediately released at or near the site of capture after the permitted activity. Any wildlife authorized to be removed from the wild shall not be returned to the wild without prior written permission from the Department.
- P. **Compliance Inspection.** At the discretion of the Department, a Department wildlife officer or other Department employee may accompany persons during any permitted activity(ies) authorized by this SCP. The Permitholder shall, at all reasonable hours, allow a Department representative to enter and inspect the designated storage facility(s) and premises where live, or dead wildlife, and/or parts thereof are stored, and shall allow such Department representative to inspect reports and/or records, and the wildlife in possession.

Permitholder Initials: _____

