

Permittee's Contact Information:
Tim Elfers
USGS Marine Facility
Pacific Coastal Marine Science Center
2885 Mission St.
Santa Cruz, CA 95060
831-332-9665 c

Permit #: 8394

- Select one:**
- New Survey
 - New Survey Series
 - Existing Survey Series
 - Time Extension

Section 1: Pre-Survey Notification Package. Please use the boxes below to verify that the required documents are included in the Pre-Survey Notification Package:

- Pre-Survey Notification Form
- Navigation chart, as well as GPS coordinates or a shapefile for proposed track lines (bounding coordinates for the survey area are acceptable if track lines are not known; all coordinates should be in decimal degrees)
- Résumé(s) of Marine Wildlife Monitor(s)

Section 2: Pre-Survey Notices. Please use the boxes below to verify that notifications have been sent to the following:

- U.S. Coast Guard Local Notice to Mariners
- Harbormasters' offices of regional harbors near the survey area

Section 3: Survey Details.

Date(s) of operation (survey window): 9/15 - 9/18, 2020

Number of survey days (approximate): 3

Survey location: Goleta Ca, to Ventura, CA

Hours of operation: daylight hours

Survey purpose/objective:

Continuation of long-term data set to assess changes in seafloor morphology related to seasonal storms, El Nino impacts, and anthropogenic influences in the Santa Barbara littoral zone.

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Section 4: Vessel Details.

Vessel name: PWC-1 "Cobra" PWC-2 "Mickey"

Vessel official number: n/a federal

Vessel captain's name: Tim Elfers/Jackson Currie

Radio channel(s) to be monitored by vessel: 16; 82a

Section 5: Survey Equipment Characteristics.

Equipment type	Single Beam Sonar
Frequency	200 kHz
Source level (dB re 1 uPa at 1 m [rms and peak])	93 dB
Number of beams	1
Across and along track beamwidth	1.6 m
Pulse rate/length	4.5 - 13 usec
Rise time	7 usec
Source depth	0.25 m
Tow speed	5 kts
Cable tow length	pole mount

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Equipment type	
Frequency	
Source level (dB re 1 uPa at 1 m [rms and peak])	
Number of beams	
Across and along track beamwidth	
Pulse rate/length	
Rise time	
Source depth	
Tow speed	
Cable tow length	

Equipment type	
Frequency	
Source level (dB re 1 uPa at 1 m [rms and peak])	
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Section 6: Safety Zones. For surveys operating equipment at a frequency < 200 kHz, a safety zone around the sound source is required. The size of the safety zone is based on the modeled or calculated distance to the 160 dB (rms) threshold, as outlined in Section 2100.07 (a)(5)(D) of the Geophysical Survey Permit Program’s regulations. Please list the equipment-specific safety zones below.

Equipment type	Safety zone
200 kHz Single Beam Sonar	n/a

Section 7: Pinniped Haul-Out Sites, Marine Protected Areas (MPAs), and Other Permits/Authorizations. Please provide answers to the following:

Are there pinniped haul-out sites within or near the survey area? If yes, please provide the location of and distance to the haul-out site(s).

<p>Harbor seal Carpinteria Location Carpinteria State Beach Latitude 34.39</p> <p>Carpinteria Location Carpinteria Bluffs Latitude 34.38</p> <p>Goleta</p>
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Are there MPAs within or near the survey area? If yes, please provide the location of and distance to the MPA(s).

<p>The “Goleta Focus Area” overlaps with the Campus Point State Marine Conservation Area (SMCA) and occurs adjacent to the Goleta Slough SMCA</p>

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Were other permits or authorizations obtained from Federal or State agencies (e.g., from the California Department of Fish and Wildlife for work in or near MPAs)? If yes, please provide the type of permit and issuing agency.

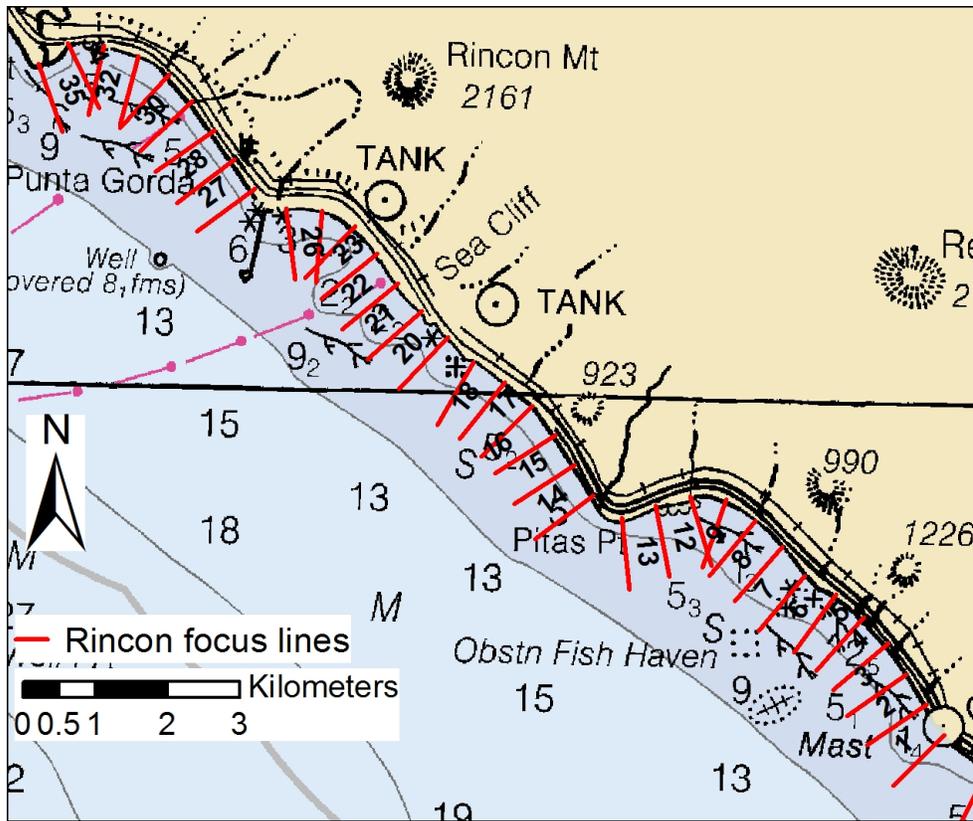
Department of Fish and Wildlife - Science Collection Permit # SC-13359

Section 8: Contact Information. If you foresee potential interference with commercial fishing or other activities, please contact the person(s) listed below:

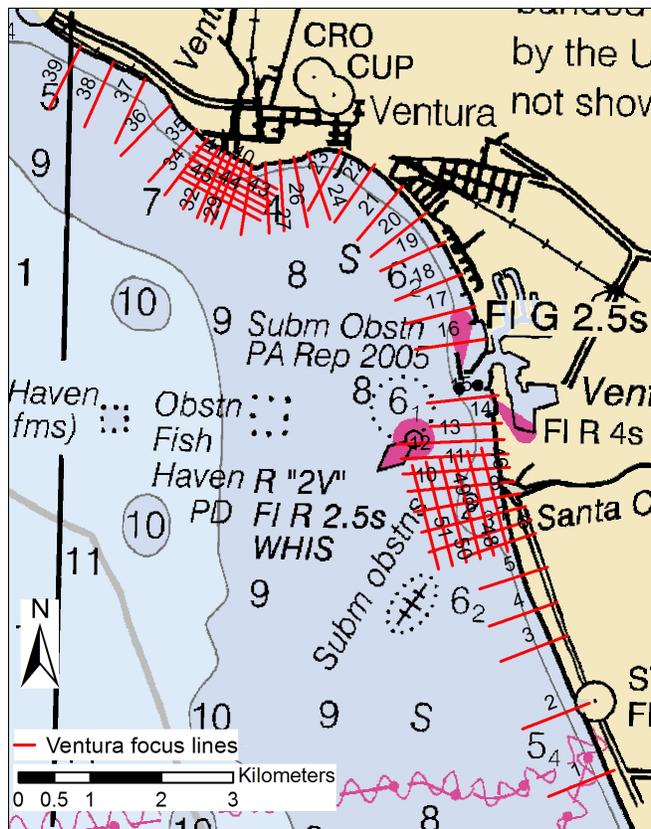
Commission Representative

Richard Greenwood
301 East Ocean Boulevard
Long Beach CA 90802
Marine Environmental Protection
Suite 350 | 562.499.6312

Bureau of Ocean Energy Management Representative (If Applicable)



Rincon focus area lines 1- 35



Ventura focus area lines 1- 55

Goleta focus

34.39628	-119.90865
34.39628	-119.81467
34.42282	-119.90865
34.42282	-119.81467

Carpinteria focus

34.37225	-119.57055
34.37225	-119.47945
34.41407	-119.57055
34.41407	-119.47945

Rincon focus

34.28550	-119.44380
34.28550	-119.47172
34.37607	-119.44380
34.37607	-119.47172

Ventura focus

34.19432	-119.33625
34.19432	-119.24795
34.28815	-119.33625
34.28815	-119.24795