

## Request for Renewal of UCSC-PISCO IHA

Per Condition 8 of our initial Incidental Harassment Authorization, UCSC-PISCO would like to request a renewal of this IHA for the period of March 12, 2019 to March 11, 2020. Renewal conditions have been met as specified below:

- Request for Renewal was submitted on January 8, 2019 (>60 days prior to the expiration of the current IHA).
- UCSC-PISCO's planned research activities during this period are nearly identical to those included in the initial application and the activity area, research methods, frequency, duration, and species affected under these activities remain the same with the following exceptions:

- 1) Planned Biodiversity Surveys for this period will include at least the following sites: Ecola, Roads End, Otter Rock, Seal Rock, Graduation Point, North Head, Eel Point

These are existing sites with a rare occurrence of pinnipeds and we do not anticipate increased take from these surveys. See Table 1 of the accompanying Preliminary Monitoring Report for site locations.

- 2) A new NSF funded study examining the ecosystem level effects of sea star wasting syndrome (SSWS) as well as mechanisms for recovery, requires our research group to visit the following sites on a monthly basis:  
Waddell, Soberanes, Point Sierra Nevada.

There will also be additional annual visits (1 day) to the following sites:  
Pigeon Point, Davenport Landing, Terrace Point, Hopkins, Vista Del Mar, Hazards.

Waddell is a new site established for this project in 2018. See Table 1 of the accompanying Preliminary Monitoring Report for site locations.

Very few pinnipeds have been observed at these sites (see Preliminary Monitoring Report) and we do not anticipate that additional site visits will increase our expected take beyond what was authorized under the initial IHA.

- The accompanying Preliminary Monitoring Report covers research activities from March 12, 2018 to December 31, 2018. The monitoring results confirm that impacts from our research activities do not exceed what was authorized under the initial IHA.
- UCSC-PISCO will continue to employ the mitigation and monitoring measures included in the initial IHA.