

**PISCO Coastal Biodiversity Survey**  
**University of California Santa Cruz**  
<http://cbsurveys.ucsc.edu>

Please note:

The information listed below is provided for your convenience. We ask that you please contact the SWAT Team ([swat@biology.ucsc.edu](mailto:swat@biology.ucsc.edu)) prior to using this information for any purpose. We make this request to:

1. Reduce redundancy; we may be currently working on projects that involve this information.
2. We would like to be informed of and involved in projects developed using this information. We have been careful to voucher any organisms that were difficult to identify in the field so that more detailed evaluation could be done in the lab. We are therefore confident that the identification of organisms listed below is reliable with the caveat that some sponges and tunicates are very difficult to identify to species without detailed histological evaluation, which we have not done. The number of cases where this could have been a problem is very small. For more information please visit our website above or link directly to our protocols at: <http://cbsurveys.ucsc.edu/sampling/images/dataprotocols.pdf>

**Heisler Park, Orange County, California**  
**December 12, 15, 2009**

Species List:

<i>Acanthinucella</i> spp	<i>Lottia limatula</i>
<i>Anthopleura elegantissima</i>	<i>Lottia paradigitalis/strigatella</i>
<i>Anthopleura sola</i>	<i>Lottia pelta</i>
<i>Aplysia californica</i>	<i>Lottia scabra/conus</i>
<i>Balanus glandula</i>	<i>Maxwellia gemma</i>
Blue green algae	<i>Megastraea undosa</i>
<i>Bossiella</i> spp	<i>Mytilus californianus</i>
<i>Brachidontes/Septifer</i> spp	<i>Norrisia norrisi</i>
<i>Caulacanthus ustulatus</i>	<i>Nucella emarginata/ostrina</i>
<i>Centroceras/Ceramium/Corallophila</i> spp	<i>Nuttallina</i> spp
<i>Ceratostoma nuttalli</i>	<i>Osmundea sinicola</i>
<i>Chondracanthus canaliculatus</i>	<i>Osmundea spectabilis</i>
<i>Chthamalus</i> spp	<i>Pachydictyon coriaceum</i>
<i>Codium fragile</i>	<i>Pachygrapsus crassipes</i>
<i>Colpomenia/Leathesia</i> spp	<i>Pagurus hirsutiusculus</i>
<i>Conus californicus</i>	<i>Pagurus samuelis</i>
<i>Corallina</i> spp	<i>Petrospongium rugosum</i>
<i>Cyanoplax hartwegii</i>	<i>Phyllospadix torreyi</i>
Diatoms	<i>Pisaster ochraceus</i>
<i>Dictyopteris undulata</i>	<i>Pollicipes polymerus</i>
<i>Egregia menziesii</i>	<i>Pseudochama exogyra</i>
<i>Eisenia arborea</i>	<i>Pseudolithoderma nigra</i>
Encrusting coralline	<i>Pterocliadiella capillacea</i>
<i>Endarachne binghamiae</i>	Ralfsiaceae
<i>Fissurella volcano</i>	Sabellariidae
<i>Gastroclonium parvum</i>	<i>Sargassum muticum</i>
<i>Gelidium coulteri</i>	<i>Scytosiphon</i> spp
<i>Homalopoma baculum/luridum</i>	<i>Strongylocentrotus purpuratus</i>
<i>Jania crassa</i>	<i>Tegula aureotincta</i>
<i>Jania tenella</i>	<i>Tegula eiseni</i>
<i>Laurencia pacifica/masonii</i>	<i>Tegula funebris</i>
<i>Lithothrix aspergillum</i>	<i>Tetraclita rubescens</i>
<i>Littorina keenae</i>	<i>Ulva</i> spp
<i>Littorina plena/scutulata</i>	
<i>Lomentaria</i> spp	
<i>Lottia austrodigitalis/digitalis</i>	