

**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>

**Shaw's Cove, Orange County**  
**April 28, 2001 and May 11, 2001**  
Species list:

<i>Acanthinucella</i> spp	<i>Mazzaella affinis</i>
<i>Anthopleura elegantissima</i>	<i>Mazzaella</i> spp
<i>Anthopleura sola</i>	<i>Mytilus californianus</i>
<i>Aalanus glandula</i>	<i>Nucella canaliculata</i>
Blue green algae	<i>Nucella emarginata/ostrina</i>
<i>Bossiella</i> spp	<i>Nuttallina</i> spp
<i>Brachidontes/Septifer</i> spp	<i>Opalia funiculata</i>
<i>Centroceras/Ceramium/Polysiphonia</i> spp	<i>Pachydictyon coriaceum</i>
<i>Chondracanthus canaliculatus</i>	<i>Pachygrapsus crassipes</i>
<i>Chthamalus</i> spp	<i>Pagurus samuelis</i>
<i>Codium fragile</i>	<i>Petrocelis</i> spp
<i>Colpomenia/Leathesia</i> spp	<i>Petrospongium rugosum</i>
<i>Corallina</i> spp	<i>Phragmatopoma californica</i>
Diatoms	<i>Phyllospadix torreyi</i>
<i>Egria menziesii</i>	<i>Pisaster ochraceus</i>
Encrusting coralline	<i>Pisaster giganteus</i>
<i>Endarachne binghamiae</i>	<i>Pollicipes polymerus</i>
<i>Endocladia muricata</i>	<i>Porphyra</i> spp
<i>Fssurella volcano</i>	<i>Pseudochama exogyra</i>
<i>Gelidium</i> spp	<i>Pterocladia capillacea</i>
<i>Grateloupia doryphora</i>	Ralfsiaceae
<i>Hemigrapsus nudus</i>	<i>Scytosiphon</i> spp
<i>Hesperophycus harveyanus</i>	<i>Serpula vermicularis</i>
<i>Hildenbrandia/Peyssonnelia</i> spp	<i>Serpulorbis squamigerus</i>
<i>Laurencia pacifica/masonii</i>	<i>Silvetia compressa</i>
<i>Lepidochitona hartwegii</i>	<i>Spirobranchus spinosus</i>
<i>Lithothrix aspergillum</i>	<i>Spirorbis</i> spp
<i>Littorina keenae</i>	<i>Strongylocentrotus purpuratus</i>
<i>Littorina plena/scutulata</i>	<i>Tegula aureotincta</i>
<i>Lottia ausreodigitalis/digitalis</i>	<i>Tegula eiseni</i>
<i>Lottia limatula</i>	<i>Tetraclita rubescens</i>
<i>Lottia paradigitalis/strigatella</i>	<i>Tonicella lineata</i>
<i>Lottia pelta</i>	<i>Ulva</i> spp
<i>Lottia scabra/conus</i>	
<i>Lottia scutum</i>	
<i>Macron lividus</i>	

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**Shaw's Cove, Orange County**  
**April 2 & 3, 2005**  
Species list:

<i>Acanthinucella</i> spp	<i>Littorina keenae</i>
<i>Alia</i> spp	<i>Littorina plena/scutulata</i>
<i>Anthopleura elegantissima</i>	<i>Lomentaria hakodatensis</i>
<i>Anthopleura sola</i>	<i>Lottia austrodigitalis/digitalis</i>
<i>Archidistoma psammion</i>	<i>Lottia limatula</i>
<i>Balanus glandula</i>	<i>Lottia paradigitalis/strigatella</i>
Blue green algae	<i>Lottia pelta</i>
<i>Bossiella</i> spp	<i>Lottia scabra/conus</i>
<i>Brachidontes/Septifer</i> spp	<i>Lottia scutum</i>
<i>Calliarthron</i> spp	<i>Macron lividus</i>
<i>Callithamnion pikeanum</i>	<i>Mytilus californianus</i>
<i>Caulacanthus ustulatus</i>	<i>Mytilus galloprovincialis/trossulus</i>
<i>Centroceras/Ceramium/Corallophila</i> spp	<i>Norrisia norrisi</i>
<i>Chondracanthus canaliculatus</i>	<i>Nucella emarginata/ostrina</i>
<i>Chondria acrorhizophora</i>	<i>Nuttallina</i> spp
<i>Chthamalus</i> spp	<i>Ocenebra interfossa</i>
<i>Cladophora columbiana</i>	<i>Ocenebra lurida</i>
<i>Colpomenia/leathesia</i> spp	<i>Osmundea sinicola</i>
<i>Corallina</i> spp	<i>Pachydictyon coriaceum</i>
<i>Cryptopleura/Hymenena</i> spp	<i>Pachygrapsus crassipes</i>
<i>Dendropoma lituella</i>	<i>Pagurus hirsutiusculus</i>
Diatoms	<i>Pagurus samuelis</i>
<i>Eisenia arborea</i>	<i>Phragmatopoma californica</i>
Encrusting coralline	<i>Phyllospadix scouleri</i>
<i>Endocladia muricata</i>	<i>Pisaster ochraceus</i>
<i>Epitonium tinctum</i>	<i>Pollicipes polymerus</i>
<i>Fissurella volcano</i>	<i>Pseudochama exogyra</i>
<i>Gelidium coulteri</i>	<i>Pseudolithoderma nigrum</i>
<i>Gelidium pusillum</i>	<i>Pterocliadiella capillacea</i>
<i>Halichondria</i> spp	<i>Pterosiphonia bipinnata</i>
<i>Herposiphonia verticillata</i>	Ralfsiaceae
<i>Hesperophycus harveyanus</i>	<i>Scytosiphon</i> spp
<i>Hildenbrandia/peyssonnelia</i> spp	<i>Serpula vermicularis</i>
<i>Laurencia pacifica/masonii</i>	<i>Silvetia compressa</i>
<i>Lepidochitona hartwegii</i>	<i>Spirorbis</i> spp
<i>Lepidozona</i> spp	<i>Strongylocentrotus purpuratus</i>
<i>Lithothrix aspergillum</i>	<i>Tegula aureotincta</i>

*Tegula eiseni*  
*Tegula funebris*  
*Tetraclita rubescens*  
*Ulva* spp