

**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>

**Shelter Cove, Humboldt County, California**  
**July 22, 2001**  
Species List:

<i>Acanthinucella</i> spp	<i>Erythrophyllum delesserioides</i>
<i>Acrosiphonia</i> spp	<i>Fucus</i> spp
<i>Alaria marginata</i>	<i>Gastroclonium subarticulatum</i>
<i>Amphissa</i> spp	<i>Gelidium</i> spp
<i>Amphissa versicolor</i>	<i>Halichondria</i> spp
<i>Anthopleura elegantissima</i>	<i>Haliclona</i> spp
<i>Anthopleura sola</i>	<i>Halosaccion glandiforme</i>
<i>Anthopleura xanthogrammica</i>	<i>Halymenia/Schizymenia</i> spp
<i>Aplidium californicum/solidum</i>	<i>Hedophyllum sessile</i>
<i>Balanophyllia elegans</i>	<i>Henricia</i> spp
<i>Balanus glandula</i>	<i>Hildenbrandia/Peyssonnelia</i> spp
Blue green algae	<i>Idotea</i> spp
<i>Bossiella</i> spp	<i>Katharina tunicata</i>
<i>Bryopsis</i> spp	<i>Lacuna</i> spp
<i>Calliarthron</i> spp	<i>Laminaria ephemera</i>
<i>Calliostoma canaliculatum</i>	<i>Laminaria setchellii</i>
<i>Callithamnion pikeanum</i>	<i>Laminaria sinclairii</i>
<i>Cancer</i> spp	<i>Lepidochitona dentiens</i>
<i>Centroceras/Ceramium/Polysiphonia</i> spp	<i>Lepidochitona hartwegii</i>
<i>Chondracanthus canaliculatus</i>	<i>Leptasterias</i> spp
<i>Chthamalus</i> spp	<i>Lessoniopsis littoralis</i>
<i>Cladophora columbiana</i>	<i>Littorina keenae</i>
<i>Colpomenia/Leathesia</i> spp	<i>Littorina plena/scutulata</i>
<i>Corallina</i> spp	<i>Lottia austrodigitalis/digitalis</i>
<i>Costaria costata</i>	<i>Lottia paradigitalis/strigatella</i>
<i>Cryptopleura/Hymenena</i> spp	<i>Lottia pelta</i>
<i>Cryptosiphonia woodii</i>	<i>Lottia scabra/conus</i>
<i>Cystoseira osmundacea</i>	<i>Lottia scutum</i>
<i>Dermasterias imbricata</i>	<i>Mastocarpus jardinii</i>
<i>Desmarestia ligulata</i>	<i>Mastocarpus papillatus</i>
<i>Diaulula sandigensis</i>	<i>Mazzaella affinis</i>
<i>Dilsea californica</i>	<i>Mazzaella</i> spp
<i>Dodecaceria fewkesi</i>	<i>Microcladia borealis</i>
<i>Egregia menziesii</i>	<i>Microcladia coulteri</i>
Encrusting coralline	<i>Mopalia</i> spp
<i>Endocladia muricata</i>	<i>Mytilus californianus</i>

*Neorhodomela larix*  
*Nereocystis luetkeana*  
*Nucella emarginata/ostrina*  
*Nuttallina* spp  
*Odonthalia floccosa*  
*Onchidella borealis*  
*Osmundea spectabilis*  
*Pachygrapsus crassipes*  
*Pagurus granosimanus*  
*Pagurus hirsutiusculus*  
*Pelvetiopsis* spp  
*Petrocelis* spp  
*Phragmatopoma californica*  
*Phyllospadix scouleri*  
*Pisaster giganteus*  
*Pisaster ochraceus*  
*Plocamium cartilagineum*  
*Plocamium violaceum*  
*Pollicipes polymerus*  
*Polysiphonia* spp

*Porphyra* spp  
*Prionitis lanceolata*  
*Prionitis lyallii*  
*Pterosiphonia dendroidea/pennata*  
*Pterosiphonia* spp  
*Pterygophora californica*  
*Pugettia producta*  
*Pycnopodia helianthoides*  
Ralfsiaceae  
*Ritterella* spp  
*Semibalanus cariosus*  
*Silvetia compressa*  
*Spirorbis* spp  
*Strongylocentrotus purpuratus*  
*Tegula brunnea*  
*Tegula funebris*  
*Tetraclita rubescens*  
*Tonicella lineata*  
*Ulva* spp

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**Shelter Cove, Humboldt Co**  
**April 28-29, 2006**  
Species List:

<i>Acmaea mitra</i>	<i>Lacuna</i> spp
<i>Aglaophenia latirostris</i>	<i>Laminaria setchellii</i>
<i>Alia</i> spp	<i>Laminaria sinclairii</i>
<i>Amphissa versicolor</i>	<i>Lepidozona</i> spp
<i>Analipus japonicus</i>	<i>Leptasterias</i> spp
<i>Anthopleura elegantissima</i>	<i>Lirularia/Margarites</i> spp
<i>Anthopleura sola</i>	<i>Littorina keenae</i>
<i>Anthopleura xanthogrammica</i>	<i>Littorina plena/scutulata</i>
<i>Balanus glandula</i>	<i>Lottia austrodigitalis/digitalis</i>
<i>Bittium eschrichtii</i>	<i>Lottia limatula</i>
<i>Bossiella</i> spp	<i>Lottia paradigitalis/strigatella</i>
<i>Calliarthron</i> spp	<i>Lottia pelta</i>
<i>Callithamnion pikeanum</i>	<i>Lottia scabra/conus</i>
<i>Centroceras/Ceramium/Corallophila</i> spp	<i>Mastocarpus jardinii</i>
<i>Chondracanthus canaliculatus</i>	<i>Mastocarpus papillatus</i>
<i>Chthamalus</i> spp	<i>Mazzaella affinis</i>
<i>Constantinea simplex</i>	<i>Mazzaella linearis</i>
<i>Corallina</i> spp	<i>Mazzaella oregona</i>
<i>Costaria costata</i>	<i>Mazzaella</i> spp
<i>Cryptochiton stelleri</i>	<i>Microcladia borealis</i>
<i>Cryptopleura/Hymenena</i> spp	<i>Mopalia</i> spp
<i>Cryptosiphonia woodii</i>	<i>Mytilus californianus</i>
<i>Cystoseira osmundacea</i>	<i>Neorhodomela larix</i>
<i>Delesseria decipiens</i>	<i>Nucella canaliculata</i>
Diatoms	<i>Nucella emarginata/ostrina</i>
<i>Dodecaceria fewkesi</i>	<i>Nuttallina</i> spp
<i>Egregia menziesii</i>	<i>Odonthalia floccosa</i>
Encrusting coralline	<i>Onchidella borealis</i>
<i>Endocladia muricata</i>	<i>Osmundea spectabilis</i>
<i>Erythrophyllum delesserioides</i>	<i>Pachygrapsus crassipes</i>
<i>Farlowia/Pikea</i> spp	<i>Pagurus hirsutiusculus</i>
<i>Fucus</i> spp	<i>Pelvetiopsis</i> spp
<i>Gastroclonium subarticulatum</i>	<i>Petrocelis</i> spp
<i>Halymenia/Schizymenia</i> spp	<i>Phaeostrophion irregulare</i>
<i>Hedophyllum sessile</i>	<i>Phragmatopoma californica</i>
<i>Henricia</i> spp	<i>Phyllospadix scouleri</i>
<i>Hildenbrandia/Peyssonnelia</i> spp	<i>Pisaster ochraceus</i>
<i>Katharina tunicata</i>	<i>Pollicipes polymerus</i>

*Polysiphonia* spp  
*Porphyra* spp  
*Prionitis lanceolata*  
*Prionitis lyallii*  
*Pseudolithoderma nigra*  
*Pterosiphonia bipinnata*  
*Pterosiphonia dendroidea/pennata*  
*Pterygophora californica*

*Pugettia producta*  
Ralfsiaceae  
*Searlesia dira*  
*Semibalanus cariosus*  
*Strongylocentrotus purpuratus*  
*Tegula funebris*  
*Tonicella lineata*  
*Ulva* spp