

**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>

**Johnson's Lee, Santa Rosa Island, California**  
**December 14, 2001**  
Species List:

<i>Acanthinucella</i> spp	<i>Gracilariopsis andersonii/papenfussii</i>
<i>Alia</i> spp	<i>Grateloupia doryphora</i>
<i>Amphissa versicolor</i>	<i>Halidrys dioica</i>
<i>Anthopleura elegantissima</i>	<i>Hildenbrandia/Peyssonnelia</i> spp
<i>Anthopleura sola</i>	<i>Lepidochitona hartwegii</i>
<i>Anthopleura</i> spp	<i>Leptasterias</i> spp
<i>Anthopleura xanthogrammica</i>	<i>Littorina keenae</i>
<i>Aplidium californicum/solidum</i>	<i>Littorina plena/scutulata</i>
<i>Balanus glandula</i>	<i>Lottia austrodigitalis/digitalis</i>
<i>Bossiella</i> spp	<i>Lottia limatula</i>
<i>Brachidontes/Septifer</i> spp	<i>Lottia paradigitalis/strigatella</i>
<i>Callithamnion pikeanum</i>	<i>Lottia pelta</i>
<i>Cancer productus</i>	<i>Lottia scabra/conus</i>
<i>Centroceras/Ceramium/Corallophila</i> spp	<i>Macrocystis</i> spp
<i>Chaetomorpha</i> spp	<i>Mazzaella affinis</i>
<i>Chondracanthus canaliculatus</i>	<i>Mazzaella leptorhynchos</i>
<i>Chondracanthus spinosus</i>	<i>Megabalanus californicus</i>
<i>Chondria decipiens</i>	<i>Mopalia</i> spp
<i>Chthamalus</i> spp	<i>Mytilus californianus</i>
<i>Cladophora columbiana</i>	<i>Neoptilota/ptilota</i> spp
<i>Cladophora graminea</i>	<i>Nucella canaliculata</i>
<i>Corallina</i> spp	<i>Nucella emarginata/ostrina</i>
<i>Cryptopleura/Hymenena</i> spp	<i>Nuttallina</i> spp
<i>Distaplia occidentalis</i>	<i>Ocenebra circumtexta</i>
<i>Doriopsilla albopunctata</i>	<i>Octopus</i> spp
<i>Egregia menziesii</i>	<i>Ophlitaspongia pennata</i>
Encrusting coralline	<i>Osmundea spectabilis</i>
<i>Endarachne binghamiae</i>	<i>Pachycheles</i> spp
<i>Endocladia muricata</i>	<i>Pachydictyon coriaceum</i>
<i>Epitonium tinctum</i>	<i>Pachygrapsus crassipes</i>
<i>Fissurella volcano</i>	<i>Pagurus hirsutiusculus</i>
<i>Gastroclonium subarticulatum</i>	<i>Pagurus samuelis</i>
<i>Gelidium coulteri</i>	<i>Petrospongium rugosum</i>
<i>Gelidium coulteri/pusillum</i>	<i>Phragmatopoma californica</i>
<i>Gelidium robustum</i>	<i>Phyllospadix scouleri</i>
<i>Gelidium</i> spp	<i>Phyllospadix torreyi</i>

*Pisaster ochraceus*  
*Pista* spp  
*Pollicipes polymerus*  
*Polysiphonia* spp  
*Prionitis lanceolata*  
*Pterosiphonia baileyi*  
*Pterosiphonia dendroidea/pennata*  
Pycnogonida  
Ralfsiaceae  
*Ritterella* spp

*Sarcodiotheca gaudichaudii*  
*Scytosiphon* spp  
*Serpulorbis squamigerus*  
*Spirobranchus spinosus*  
*Spirorbis* spp  
*Strongylocentrotus purpuratus*  
*Tegula funebris*  
*Tetraclita rubescens*  
*Ulva* spp

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**Johnson's Lee, Santa Rosa Island, California**  
**December 1, 2002**

Species List:

<i>Acanthinucella</i> spp	<i>Lacuna</i> spp
<i>Anthopleura elegantissima</i>	<i>Lepidochitona dentiens</i>
<i>Anthopleura sola</i>	<i>Lepidochitona hartwegii</i>
<i>Anthopleura xanthogrammica</i>	<i>Lepidochitona hartwegii</i>
<i>Aplidium californicum/solidum</i>	<i>Lithothrix aspergillum</i>
<i>Archidistoma psammion</i>	<i>Littorina keenae</i>
<i>Balanus glandula</i>	<i>Littorina plena/scutulata</i>
Blue green algae	<i>Lottia austrodigitalis/digitalis</i>
<i>Bossiella</i> spp	<i>Lottia limatula</i>
<i>Brachidontes/Septifer</i> spp	<i>Lottia ochracea</i>
<i>Bugula</i> spp	<i>Lottia paradigitalis/strigatella</i>
<i>Cancer antennarius</i>	<i>Lottia pelta</i>
<i>Centroceras/Ceramium/Corallophila</i> spp	<i>Lottia scabra/conus</i>
<i>Chaetomorpha spiralis</i>	<i>Macrocystis</i> spp
<i>Chondracanthus canaliculatus</i>	<i>Mazzaella affinis</i>
<i>Chondracanthus spinosus</i>	<i>Mazzaella leptorhynchus</i>
<i>Chondria decipiens</i>	<i>Mytilus californianus</i>
<i>Chthamalus</i> spp	<i>Nucella emarginata/ostrina</i>
<i>Cladophora columbiana</i>	<i>Nuttallina</i> spp
<i>Codium fragile</i>	<i>Ocenebra circumtexta</i>
<i>Corallina</i> spp	<i>Ophlitaspongia pennata</i>
<i>Cryptopleura/Hymenena</i> spp	<i>Osmundea sinicola</i>
Diatoms	<i>Osmundea spectabilis</i>
<i>Dodecaceria fewkesi</i>	<i>Pachydictyon coriaceum</i>
<i>Egregia menziesii</i>	<i>Pachygrapsus crassipes</i>
Encrusting coralline	<i>Pagurus hirsutiusculus</i>
<i>Endocladia muricata</i>	<i>Pagurus samuelis</i>
<i>Fauchea laciniata</i>	<i>Petrospongium rugosum</i>
<i>Fissurella volcano</i>	<i>Phragmatopoma californica</i>
<i>Gastroclonium subarticulatum</i>	<i>Phyllospadix torreyi</i>
<i>Gelidium coulteri</i>	<i>Pisaster ochraceus</i>
<i>Gelidium robustum</i>	<i>Pollicipes polymerus</i>
<i>Grateloupia doryphora</i>	<i>Polysiphonia</i> spp
<i>Haliclona</i> spp	<i>Prionitis lanceolata</i>
<i>Halymenia/Schizymenia</i> spp	<i>Pterosiphonia baileyi</i>
<i>Hermisenda crassicornis</i>	<i>Pterosiphonia dendroidea/pennata</i>

*Pugettia producta*  
Ralfsiaceae  
*Ritterella* spp  
*Sarcodiotheca gaudichaudii*  
*Scytosiphon* spp  
*Serpula vermicularis*  
*Serpulorbis squamigerus*

*Spirobranchus spinosus*  
*Spirorbis* spp  
*Strongylocentrotus purpuratus*  
*Tegula funebris*  
*Tetraclita rubescens*  
*Ulva* spp

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**Johnson's Lee, Santa Rosa Island, California**  
**December 11, 2004**

Species List:

<i>Acanthinucella</i> spp	<i>Euherdmania claviformis</i>
<i>Alia</i> spp	<i>Eurystomella bilabiata</i>
<i>Amphissa versicolor</i>	<i>Fissurella volcano</i>
<i>Anthopleura elegantissima</i>	<i>Gastroclonium subarticulatum</i>
<i>Anthopleura sola</i>	<i>Gelidium coulteri</i>
<i>Anthopleura xanthogrammica</i>	<i>Gelidium coulteri/pusillum</i>
<i>Archidistoma psammion</i>	<i>Griffithsia pacifica</i>
<i>Balanus glandula</i>	<i>Halichondria</i> spp
<i>Bittium eschrichtii</i>	<i>Herposiphonia verticillata</i>
Blue green algae	<i>Hermisenda crassicornis</i>
<i>Bossiella</i> spp	<i>Hildenbrandia/Peyssonnelia</i> spp
<i>Bryopsis</i> spp	<i>Lepidochitona hartwegii</i>
<i>Bugula</i> spp	<i>Lepidozona</i> spp
<i>Calliostoma supragranosum</i>	<i>Littorina keenae</i>
<i>Callithamnion pikeanum</i>	<i>Littorina plena/scutulata</i>
<i>Cancer antennarius</i>	<i>Lottia austrodigitalis/digitalis</i>
<i>Centroceras/Ceramium/Corallophila</i> spp	<i>Lottia limatula</i>
<i>Chondracanthus canaliculatus</i>	<i>Lottia paradigitalis/strigatella</i>
<i>Chondracanthus corymbiferus/exaspertata</i>	<i>Lottia pelta</i>
<i>Chondracanthus spinosus</i>	<i>Lottia scabra/conus</i>
<i>Chondria arcuata</i>	<i>Lottia scutum</i>
<i>Chthamalus</i> spp	<i>Macrocystis</i> spp
<i>Cladophora columbiana</i>	<i>Mazzaella affinis</i>
<i>Colpomenia/Leathesia</i> spp	<i>Mazzaella oregona</i>
<i>Corallina</i> spp	<i>Megabalanus californicus</i>
<i>Cryptopleura/Hymenena</i> spp	<i>Membranipora</i> spp
<i>Dasya binghamiae</i>	<i>Mopalia</i> spp
<i>Diaulula sandiengensis</i>	<i>Mytilus californianus</i>
<i>Distaplia occidentalis</i>	<i>Nemalion helminthoides</i>
<i>Dodecaceria fewkesi</i>	<i>Nienburgia andersoniana</i>
Ectocarpales	<i>Nucella canaliculata</i>
<i>Egregia menziesii</i>	<i>Nucella emarginata/ostrina</i>
Encrusting coralline	<i>Nuttallina</i> spp
<i>Endarachne binghamiae</i>	<i>Obelia</i> sp
<i>Endocladia muricata</i>	<i>Ocenebra circumtexta</i>
<i>Epitonium tinctum</i>	<i>Ophlitaspongia pennata</i>

*Osmundea sinicola*  
*Osmundea spectabilis*  
*Pachygrapsus crassipes*  
*Pagurus granosimanus*  
*Pagurus hirsutiusculus*  
*Pagurus samuelis*  
*Petrocelis* spp  
*Petrospongium rugosum*  
*Phragmatopoma californica*  
*Phyllospadix torreyi*  
*Pisaster ochraceus*  
*Plocamium cartilagineum*  
*Pollicipes polymerus*  
*Polysiphonia* spp  
*Prionitis lanceolata*  
*Pterosiphonia baileyi*  
*Pterosiphonia dendroidea/pennata*

*Pugettia gracilis/richii*  
*Pugettia producta*  
Ralfsiaceae  
*Ritterella* spp  
*Sarcodiotheca gaudichaudii*  
*Scytosiphon* spp  
*Serpulorbis squamigerus*  
*Spirorbis* spp  
*Strongylocentrotus purpuratus*  
*Styela montereyensis*  
*Tegula funebris*  
*Tegula gallina*  
*Tetraclita rubescens*  
*Thalamoporella* spp  
*Ulva* spp  
*Volvarina taeniolata*