

Channel Islands National Park's Kelp Forest Monitoring Program

Indicator species reference guide for **RANDOM POINT CONTACTS**



Green algae

(examples)

Codium fragile



A. Griffiths

Ulva spp.



Ildiko Frank/Ian Sayers

Other brown algae

(examples)

Sargassum filicinum



D. Stein/DFG

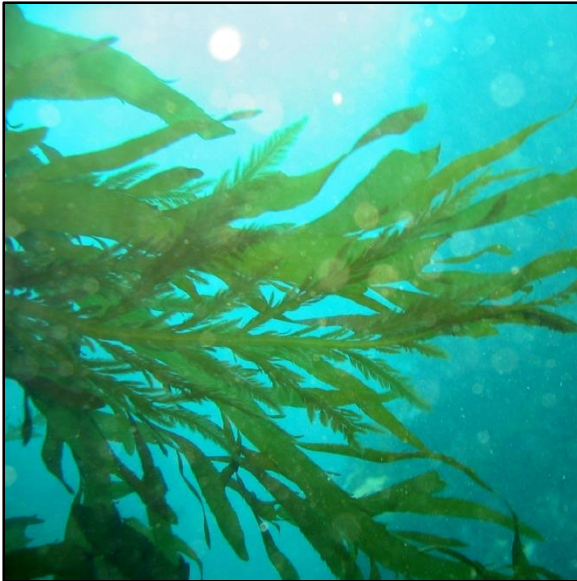
Costaria costata



J. Alstatt

***Desmarestia* spp.**

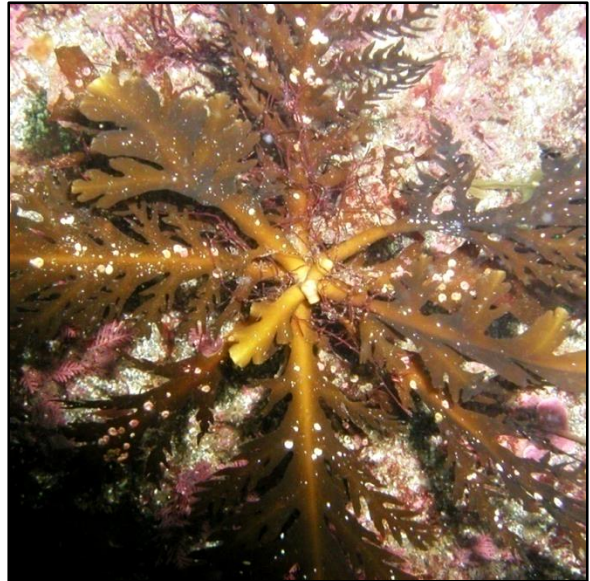
Acid weed



PISCO

***Cystoseira* spp.**

Bladder chain weed



KFM

Macrocystis pyrifera

Giant kelp

Adult (>1 m tall)



D. Stein/DFG

Juvenile (<1 m tall)



KFM

Eisenia arborea

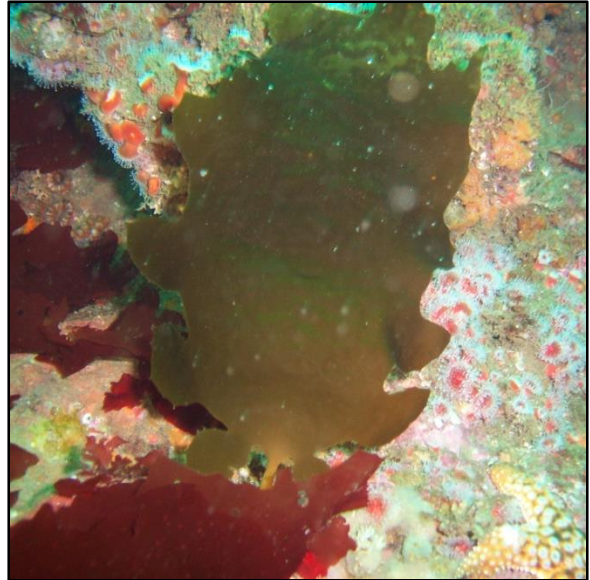
Southern sea palm

Adult (multiple blades)



J. Alstatt

Juvenile (single blade)



KFM

Pterygophora californica

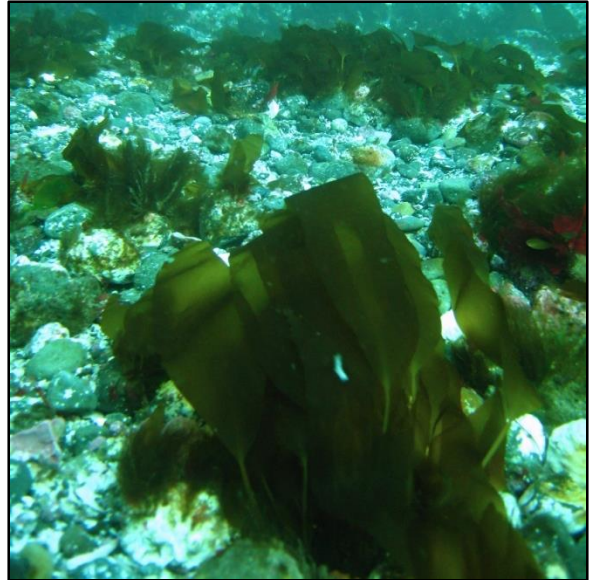
California sea palm

Adult (multiple blades)



D. Witting

Juvenile (single blade)

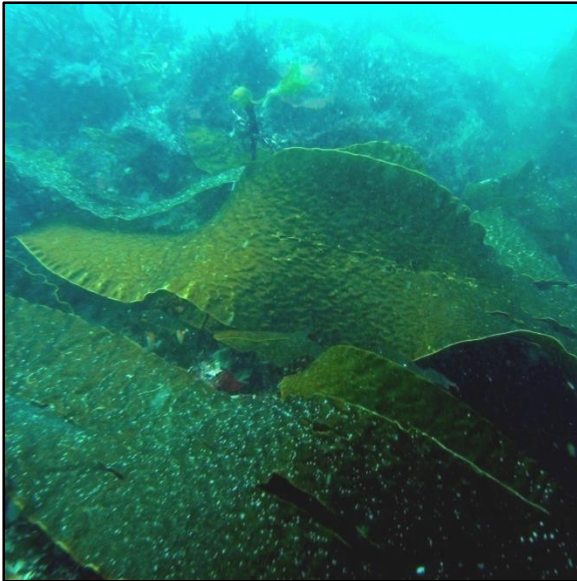


D. Stein/DFG

Laminaria farlowii

Oar Weed

Adult (blade >10 cm wide)



Santa Barbara Coastal LTER

Juvenile (blade <10 cm wide)



J. Alstatt

Sargassum horneri
Sargassum



KFM



J. Sprague

Other red algae

(examples)

Botryocladia pseudodichotoma



Ildiko Frank/Ian Sayers

Fauchea laciniata



A. Griffiths

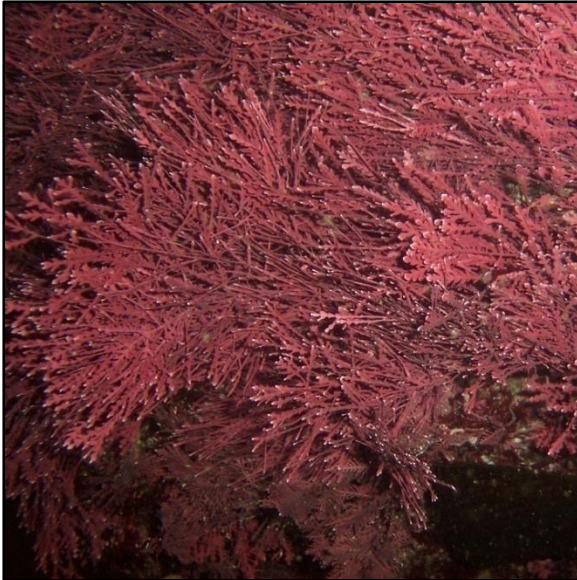
Rhodymenia pacifica



PISCO

Articulated coralline algae

(example)



D. Richards

Encrusting coralline algae

(example)



PISCO

***Gelidium* spp.**

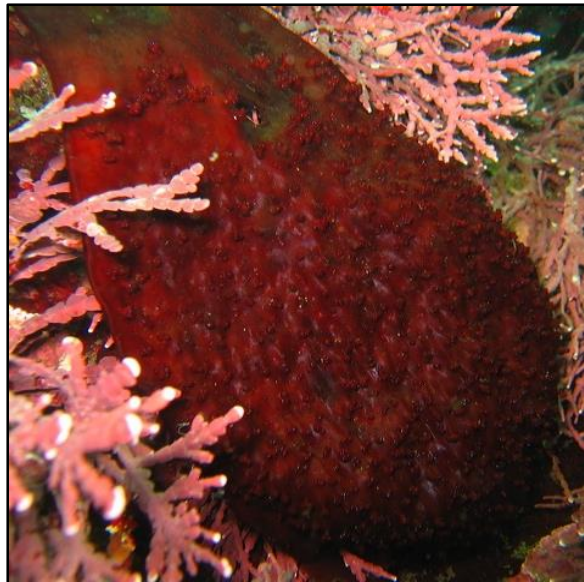
Agar weed



Santa Barbara Coastal LTER

***Gigartina* spp.**

Sea tongue

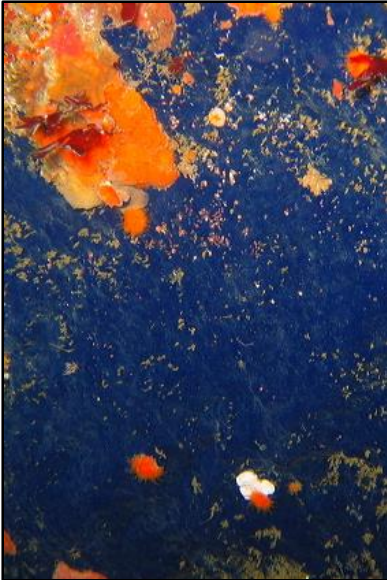


Ildiko Frank/Ian Sayers

Sponges

(examples)

Hymenamphiastra cyanocrypta



Ildiko Frank/Ian Sayers

Leucetta losangelensis



diver.net

Polymastia pachymastia



Ildiko Frank/Ian Sayers

Corynactis californica

Club-tipped anemone



K. Moore



S. Halewood

Balanophyllia elegans

Orange cup coral



S. Anderson

Astrangia lajollaensis

La Jolla cup coral



S. Anderson

Diopatra ornata

Ornate tube worm



PISCO



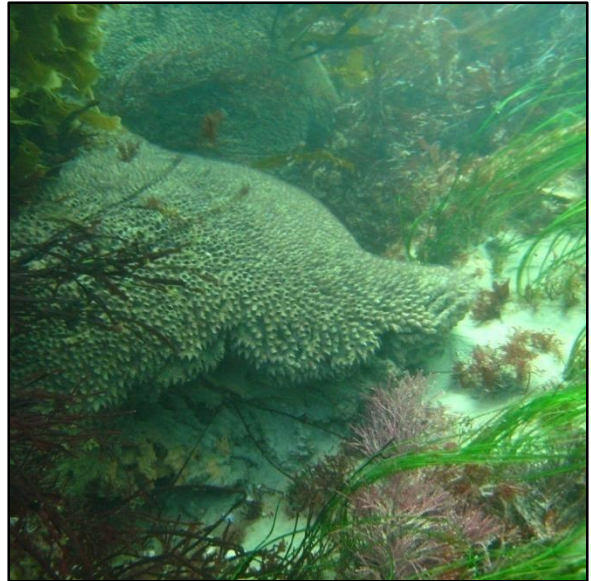
P. Rich

Phragmatopoma californica

Colonial sand-tube worm



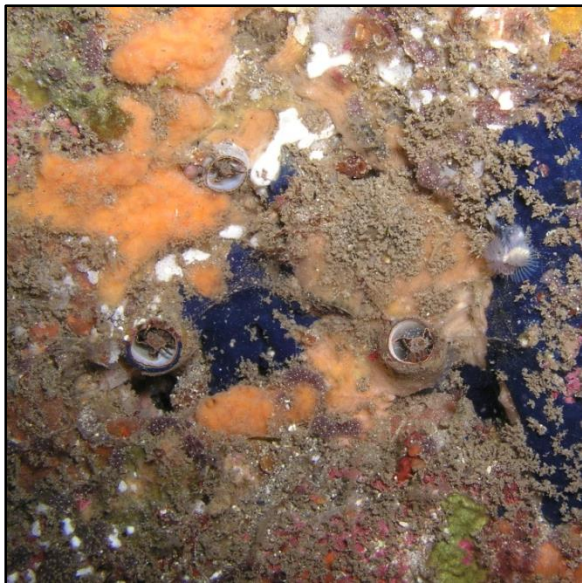
PISCO



D. Stein/DFG

Serpulorbis squamigerus

Scaled wormsnaail



KFM



P. Rich

Other Bryozoans

(examples)

Phidolopora labiata



Ildiko Frank/Ian Sayers

Lichenopora novae-zelandiae



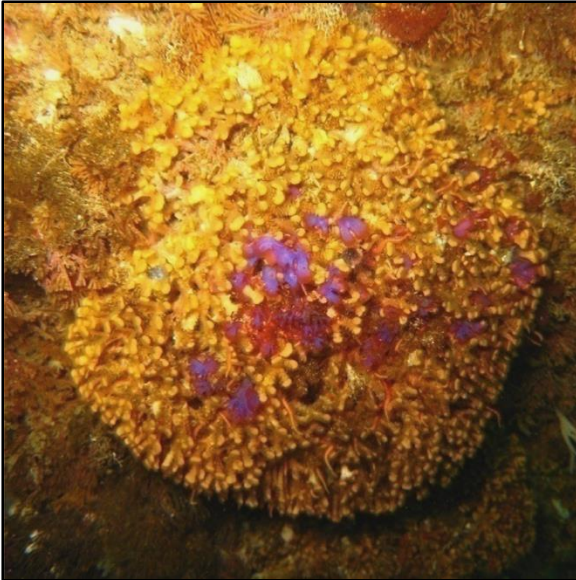
D. Stein/DFG

Hippodiplosia insculpta



diver.net

Diaperoecia californica
Southern staghorn bryozoan



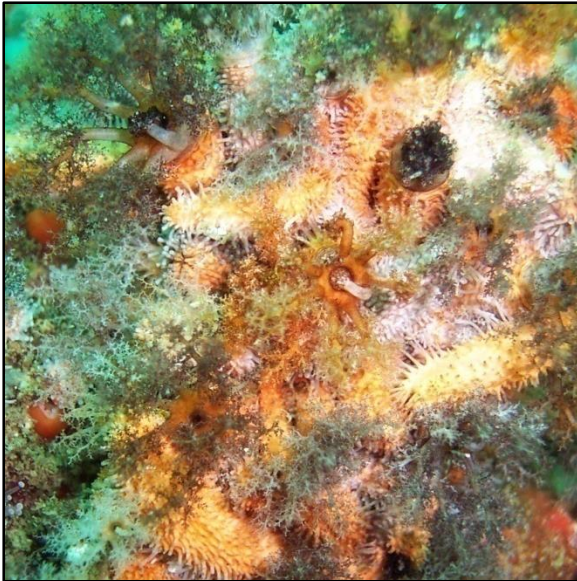
D. Stein/DFG



D. Stein/DFG

Pachythyone rubra

Aggregated red sea cucumber



KFM



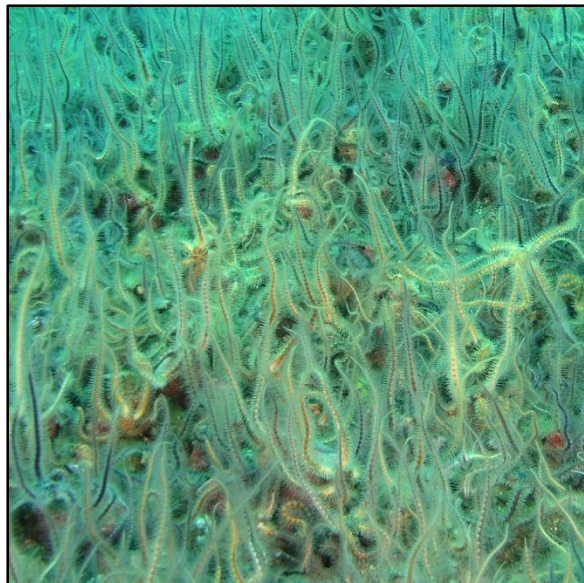
A. Rassweiler

Ophiothrix spiculata

Spiny brittle star



diver.net



G. Sanders

Tunicates

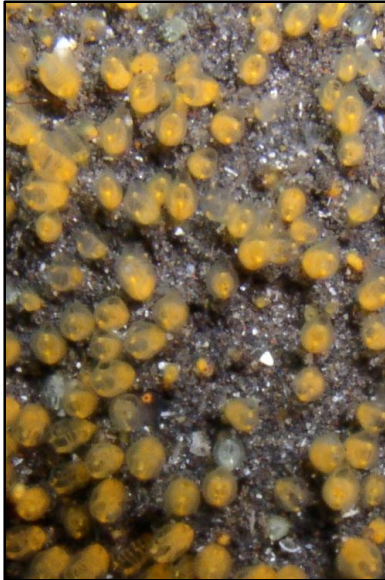
(examples)

Cystodytes lobatus



Ildiko Frank/Ian Sayers

Pycnoclavella stanleyi



PISCO

Clavelina huntsmani



D. Stein/DFG

Misc. Invertebrates

(examples)



Clockwise from top left: *Dodecaceria fewkesi* (PISCO), *Lophogorgia chilensis* (D. Stein/DFG), *Pachycerianthus fimbriatus* (K. Moore), *Urticina* spp. (K. Moore), *Spirobranchus spinosus* (C. White), *Hydractinia milleri* (D. Stein/DFG).