

Limpets



Lottia scabra/conus*
strongly ribbed with scalloped edges, small



Lottia austrodigitalis/digitalis*
small, apex far forward, ridged shell



Lottia pelta* cone shape, fairly symmetrical, weakly ridged, sometimes checkered at edge



Lottia limatula* brownish, radial and vertical ribs make 'file' pattern, apex 1/3 from anterior



Acmea mitra mitre cap limpet, very peaked, often with crustose coralline



Lottia scutum 'shield limpet', flat, smooth, round



← **Lottia gigantea***
large, apex far forward, often with epibiota in lower tide areas



Fissurella volcano* keyhole limpet, rectangular hole, brown to red, can be striped



Diodora aspera keyhole limpet, round opening in front of apex

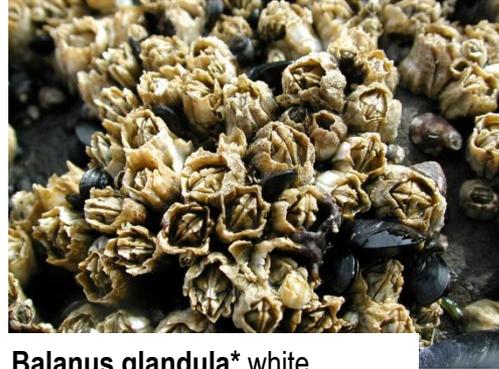


Megathura crenulata* very large keyhole limpet, tan shell, black mantle

Barnacles, Crabs



Chthamalus spp* small, gray, simple 'beak' forming cross, smooth plates



Balanus glandula* white, complex 'beak', smooth plates



Tetraclita rubescens* rosy, ribbed plates



Megabalanus californicus big, low intertidal, pink, pyramid shaped ribs on plate



Pollicipes polymerus* gooseneck barnacle



Pachygrapsus crassipes*



Pagurus hirsutiusculus* white bands on legs, spotted antennae



Pagurus granosimanus brown unbanded legs, red antennae



Pagurus samuelis* blue bands at end of legs, blue pincer tips, red antennae

Sea Hares, Snails, Whelks



Aplysia californica* common, brown spotted



Aplysia vaccaria* larger, dark brown color, sometimes with white spots



Littorina keenae* small, high intertidal, rounder than scutulata, white band in aperture



Littorina plena/scutulata* small, high intertidal, pointier than keenae, may have checker pattern near aperture



Tegula funebris* brown turban snail



Tegula eiseni banded turban, small shell ridges



Tegula gallina smooth, zig-zagging stripes



Tegula aureotincta golden turban, ridges shell, gold around umbilicus



Nucella emarginata emarginate whelk, ridges alternate thick/thin



Nucella canaliculata channeled whelk, thin ridges



Ocenebra circumtexta thick wavy ridges, squarish dots on ridges



Cerastostoma foliatum leafy hornmouth, elaborate ridges

Chitons, bivalves, echinoderms, worms



Nuttallina californica* bumps on girdle, girdle often striped, thick eroded plates



Mopalia spp.* hairs on girdle



Lepidochitona hartwegii* small gridle, broad smooth plates, often under algae, especially *Sylvestia*



Tonicella lineata beautiful, 'lined chiton', triangle pattern on plates



Mytilus californianus* blue, common, horizontal ridging



Septifer bifurcatus small, longitudinal ridges bifurcate



Pseudochama exogyra 'upside down chama' (left valve to substrate)



Pisaster ochraceus* large, tubercles over surface form pentagram at center



Strongylocentrotus purpuratus* purple sea-urchin



Phragmatopoma californica sandy tubes



Serpulorbis squamigeris thick ridged tubes, looks like worm tubes, actually a mollusc

Green Algae

Brown Algae



Chaetomorpha spp
branched filamentous,
small, filaments of single
cells



Cladophora columbiana bright
green, forms dense 'lawns'



Codium fragile* very spongy
branched green



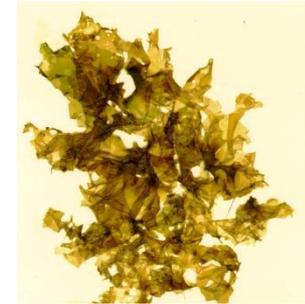
Codium setchelli spongy thick
green crust



Petalonia fascia single small thin blade



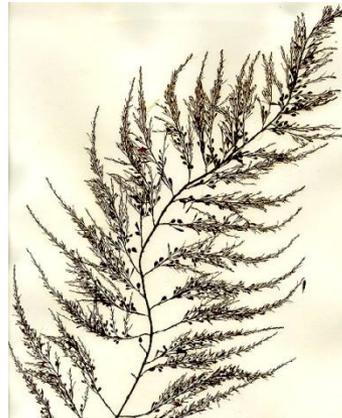
Analipus japonicus small, light
brown, small lateral branches,
peppery taste



Ulva spp. flat thin green blade, none
tubular at any point



Cystoseira osmundea woody, thick
with midrib, some have bladder-
chain



Sargassum muticum
branched, wiry, single or
clustered floats, yellowish
color



Halidrys dioica*stiff, thick and
upright, branched with mid-rib



Egregia menziesii* 'feather boa' large,
long, with bladelets and floats off
main stipe

Ralfsia

Red crusts, blades, filamentous, stringy



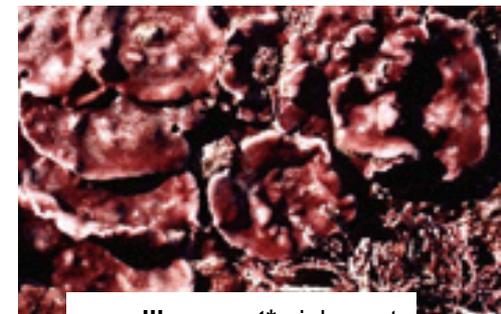
Ralfsiaceae* brown crust with ridges, often has concentric growth lines



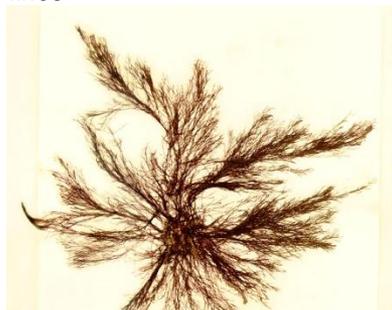
'Petrocelis** 'tar spot', dark thick crust, usually next to Mastocarpus



Hildenbrandia/Peyssonallia* rock 'rust', very thin red crust, usually in tidepools



coralline crust* pink crust



Centroceras/Polysiphonia spp small red filamentous algae



Ceramium* small red filamentous, appears striped

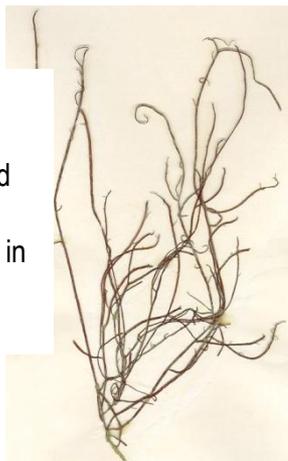


Chondracanthus exasperatus single wide blades, often with bumps, 'turkish towel'



Cryptopleura/Hymenena* thin red lobed blades, with faint veins

Gracilariopsis spp. 'spaghetti' algae, thin round long branches, brown-yellow red in color, cartilagenous =>



← **Cumagloia andersonii** brownish-red, thin long thick blades with many small simple lateral branches



Nemalion helminthoides very rubbery, long wormlike, little if any branching

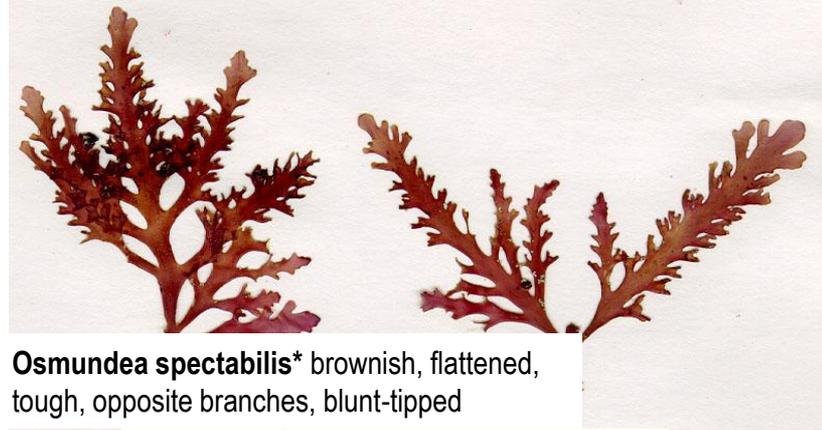
Red branched, red branched/blade



Chondracanthus canaliculatus* irregularly branched, thick blades, grows in tufts



Microcladia coulteri light red color, alternate branching in one plane, hooked aspect to terminal branches



Osmundea spectabilis* brownish, flattened, tough, opposite branches, blunt-tipped



Mastocarpus papillatus* common, broad dichotomous branches with bumps, thick



Mazzaella affinis* dichotomously branched, narrower blades than M. papillatus, grows in dense tufts, dark color



Mazzaella leptorhynchus long thin blades with bumps and many small side blades



Chondracanthus spinosus has bumps, long thin blades, small bladelets off of large blades



Prionitus lanceolata dark colored, dichotomous branches at base, terminal branches pinnate and lanceolate



Rhodymenia californica bushy, dichotomous, fan shaped blades, blunt tips, has epibionts, darker than R. pacifica



Rhodymenia pacifica bushy, dichotomous, blunt tips has epibionts, larger and redder than R. californica

Red bushy, red coralline



Callithamnion pikeanum 'rasta algae', forms long spongy dreadlock-esque clumps



Caulacanthus ustulatus* small irregularly branched, no bumps as with *Endocladia*, redder than *E. muricata*



Endocladia muricata small clumps, wiry, has short bumps or spines on branches



Gelidium coulteri* cylindrical axes, short pinnately branched branchlets, forms small clumps



Pterosiphonia spp finely branched, 'black tassel' fine braches in one plane at tip



Gastroclonium subarticulatum* inflated looking, cylindrical branches, irregular branching



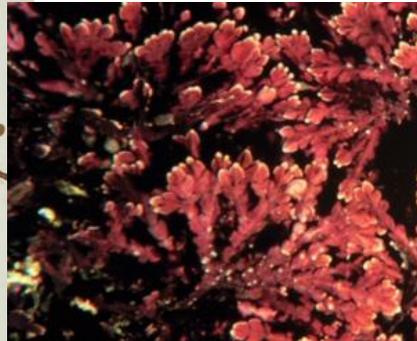
Gloiopeltis furcata brownish, smooth cylindrical branches, irregularly dichotomous, gelatinous when wet, crunchy when dry



Jania crassa coralline forms tufts on rocks, segments longer than wide, dichotomous branching



Calliarthron spp* beaded coralline, dark pink to purple, irregularly branched



Bossiella spp* fanlike, dichotomous branching, 'wingnut' segments, segments broader than long



Corallina spp* pinnately branched, flattened segments, longer than broad, branched



Lithothrix aspergillum 'stone hair', lavender to purple, segments as long as wide, branching dichotomous