

Common Trawl Gastropods of the City of San Diego's Ocean Monitoring Program



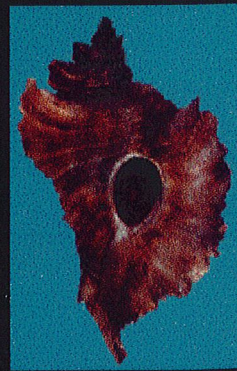
Radwin & D'Attilio, 1976

Pteropurpura trialata
(Deshayes, 1839)
Shell relatively large, with one low axial nob between varices, body whorl with slightly raised, broad spiral ribs terminating in digitations on the varices. Shell whitish, usually dark colored between the spiral ribs, occasionally solid white.
Height, 55 - 80 mm.
(McLean, 1978)
OCCURS IN OUR AREA BUT HAS NOT BEEN RECORDED TO DATE.



Radwin & D'Attilio, 1976

Pteropurpura macroptera
(Deshayes, 1839)
Slightly smaller than *P. trialata*, the body whorl is rounded between varices. Color, tan with slightly darker broad spiral ribs, pure white, or brown and white banded. Pure white, or brown and white banded.
Height, 50 - 70 mm.
(McLean, 1978)



Radwin & D'Attilio, 1976

Pteropurpura vokesae
Emerson, 1964
Smaller than the two preceding forms, this species has an axial ridge between varices and is characterized by the extreme scaliness of the fine spiral ridges, particularly on the surface of the variz. Height, 45 - 60 mm.
(McLean, 1978)



Radwin & D'Attilio, 1976

Pteropurpura festiva
(Hinds, 1844)
Shell moderately large, high spired, with backward rolled varices, fine brown spiral lines, and a single strong axial node between the finely foliated varices. Height, 40 - 50 mm.
(McLean, 1978)



Abbott and Dance, 1982

Cancellaria cooperi
Gabb, 1865
Large, high-spired shells with slightly concave shoulder and two collumellar folds, outer lip with plicae. Color, yellow brown, with low, thin spiral cords of darker brown. Broad axial ribs on the body whorl terminate at the shoulder in projecting nobs. (McLean, 1978)
Soft bottoms, 30 - 280 m



Abbott and Dance, 1982

Cancellaria crawfordiana
Dall, 1891
Shell moderately large, high-spired; whorls rounded, suture impressed, upper part of whorl slightly tabulate; columella with 3 plications. Axial sculpture of strong ribs, extending to canal; spiral sculpture of narrow cords, overriding axial ribs and forming nodes at intersections. Lip strongly lirate within. Shell cream colored under a thick, dark brown periostracum. (McLean, 1996)
Soft bottoms, 40 - 290 m



McLean, 1978

Megasurcula carpenteriana
 (Gabb, 1865)
 Shell yellowish with narrow brown bands. Spiral; sculpture of fine striae. Subsutural area slightly concave, periphery rounded or shouldered, some specimens with peripheral nodes. (McLean, 1978)
 Offshore, 50 - 300 m



McLean, 1978

Megasurcula steamsiana
 (Raymond, 1906)
 Similar to *M. carpenteriana* but smaller, subsutural area only slightly concave, whorls rounded, never nodular. Ground color yellowish, with dense brown lines in the subsutural area and regularly spaced broad bands over the body whorl. (McLean, 1978)
 Offshore, usually shallow.



McLean, 1978

Crassispira seminiflata
 (Grant & Gale, 1931)
 Shell large, dark brown to black, axial sculpture of about 14 low, slanted ribs interrupted in the subsutural channel, base with fine spiral lines. The area between the axial ribs often fades to brown or orange. (McLean, 1978)
 Rocky bottoms, 50 - 200 ft.



McLean, 1996

Antiplanes perversus
 (Gabb, 1865)
 Shell moderately large sinistral spire high, whorls, 8 - 10, evenly rounded, suture moderately impressed; spiral sculpture of fine striae. . . Periostracum tan, shell light brown. . . (McLean, 1996)
 Soft bottoms, 90 - 270 m.



McLean, 1996

Fusinus barbarentis
 (Trask, 1855)
 Shell large; whorls 7, rounded; canal long, of same length as aperture; lip lirate within; axial ribs 8-12, strong on early whorls, usually lacking on later whorls; spiral cords 4 on early whorls, secondary cords arising in interspaces so that final whorl is covered by numerous cords of irregular strength and spacing; color white to tan under brown peristracum, cords often darker brown.
 Length 50 - 110 mm.
 Soft bottoms, 50 - 350 m.
 (McLean, 1996)



Morris, 1966

Kelletia kellesti
 (Forbes, 1850)
 Large and heavy, whitish, with rounded nodes at the periphery and fine spiral striae. Siphonal fasciole broad.
 Height 90 - 170 mm.
 (McLean, 1978)



Abbott and Dance, 1987

Crossata californica
 (Hinds, 1843)
 A relatively large solid shell, with spiral sculpture of irregular cords and a series of blunt peripheral nodes. Color, light tan with a white aperture.
 Height 55 - 130 mm.
 (McLean, 1978)



Abbott & Dance, 1982

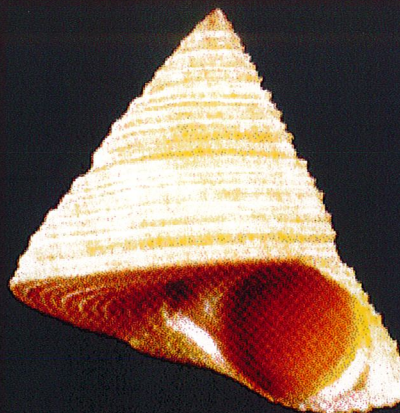
Calliostoma annulatum

(Lightfoot, 1786)

Nearly flat-sided with beaded spiral cords. Color bright golden yellow with a purple band at the periphery and adjacent to the columella. Length 10 - 30 mm.

(McLean, 1978)

Shallow water, 1 - 20 m



Abbott & Dance, 1982

Calliostoma canaliculatum

(Lightfoot, 1786)

Shell white to buff with raised spiral ribs, interspaces brownish, small blue stain adjacent to columella.

Height, 15 - 35 mm. (McLean, 1978)

Sublittoral, on rocky bottoms; sometimes found on floating kelp.



Abbott & Dance, 1982

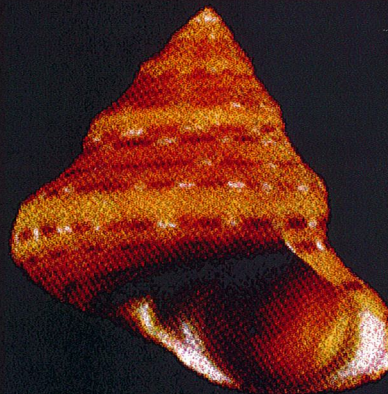
Calliostoma gloriosum

Dall, 1871

Shell elevated, with moderately convex whorls and impressed suture. Sculpture of fine spiral ribs, showing faint beading on upper part of whorl, base angulate, columella white. Color drab orange to olive with regular brown axial markings. Height 15 - 25 mm.

(McLean, 1978)

Subtidal to 50 m, in kelp.



Abbott & Dance, 1982

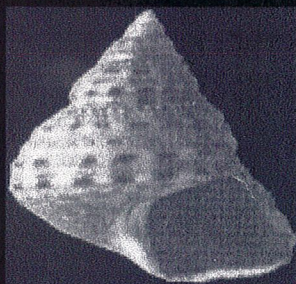
Calliostoma tricolor

Gabb, 1865

Shell with shouldered whorls, upper portion of whorl concave; sculpture of fine spiral ribs, [ribs beaded]. Color, yellowish brown with spaced spiral rings of alternating brown and white. Height, 18 - 22 mm.

(McLean, 1978)

Offshore, on rocky bottoms.



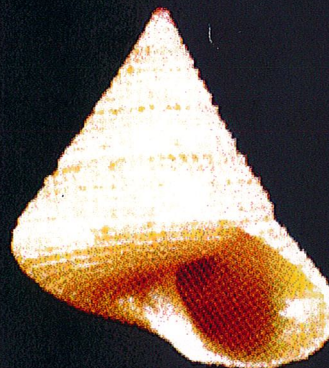
McLean, 1996

Calliostoma turbinum

Dall, 1896

Medium-sized, mature whorls rounded, suture channeled. Spiral sculpture of 4 principal chords per whorl; cords narrow with broad interspaces, uppermost chords beaded; interspaces with coppery iridescence, major cords darker brown in radial pattern [Extends uniformly out from the apex across spiral chords and interspaces]; basal cords numerous, finely beaded. Height, 15 - 21 mm.

Rocky bottoms, 70 - 140 m. (McLean, 1996)



Abbott & Dance, 1982

Calliostoma variegatum

Carpenter, 1864

Flat-sided and relatively high-spired, base of juvenile shell defined by double carination, periphery of mature shells tending to become rounded. Sculpture of evenly beaded spiral cords. Color yellowish with brown flecks on cords, interspaces on early whorls with greenish of bronze iridescence. Offshore, 30 - 800 m.

(McLean, 1996)



Markusich, 1977

Calinaticina oldroydii

(Dall, 1897)

Shell relatively large, thin; whorls 4; spire elevated; umbilicus narrow; parietal wall thin, edge straight, reflected to partially obstruct umbilicus; spiral sculpture of fine striae; axial sculpture of growth increments; light brown periostracum; periostracum shaggy within umbilicus; operculum corneous, paucispiral filling aperture. Length 40 - 70 mm. Soft bottoms, 30 - 400 m. (McLean, 1996)



Markusich, 1977

Neverita reclusiana

(Deshayes, 1839)

Shell tan colored, whorls flat sided; a heavy white callus extending from the suture covers the umbilicus except for a chink. Height, 40 - 70 mm. (McLean, 1978)

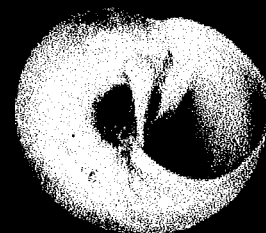


Markusich, 1977

Polinices lewisii

(Gould, 1847)

Shell large, heavy, with a shallow channel at the shoulder of the whorl, columellar callus extending to the side of the deep, narrow umbilicus. Height 75 - 130 mm. (McLean, 1978)

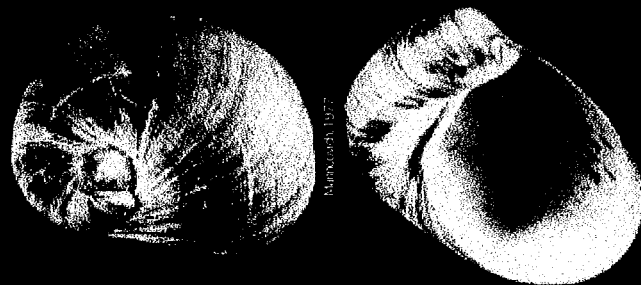


Markusich, 1977

Polinices draconis

(Dall, 1903)

With a thinner shell than *P. lewisii*, and not quite as large, this species has rounded or tabulate shoulder, no columellar callus, and a broad umbilicus showing a thick periostracum. Height 50 - 90 mm. (McLean, 1978)



Markusich, 1977

Sinum scopulosum

(Conrad, 1849)

Shell with a greatly inflated body whorl, depressed spire, and sculpture of fine incised spiral lines. Color, yellowish white under a fine periostracum.

Maximum diameter, 30 - 40 mm. (McLean, 1978)

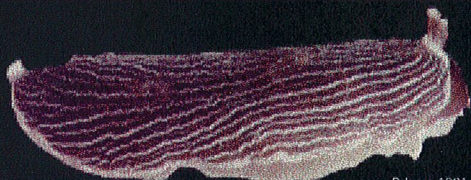


Behrens, 1991

Pleurobranchaea californica

MacFarland, 1966

The dorsum is covered with low tubercles. Color is a mottled brown, with areas of irregular, colorless patches. The foot and oral veil are lighter. Its head is large and the gills are visible, extending to the edge of the dorsum. Gills located on the right side only. Rolled rhinophores. To 21 cm. (Behrens, 1991)



Behrens, 1991

Amina californica

(Cooper, 1863)

Gills are located under the edge of the dorsum on both sides. The rhinophores project through a notch at the anterior edge of the dorsum. The oval, almost heart-shaped dorsum is colored by undulating, longitudinal ridges of white and pinkish-brown. Areas between ridges are grey to brown. A white to cream line delineates the edge of the dorsum and foot. To 70 mm. (Behrens, 1991)



Behrens, 1991

Dendronotus iris

(Cooper, 1863)

Color is highly variable, ranging from white through grey, orange, and red. The rhinophore shaft has a vertical row of from three to six small branched processes on its posterior side. A white line occurs along the foot. Frontal veil has four paired processes. Gill tipped with orange, yellow, or purple. To 60-200 mm. (Behrens, 1991)



Behrens, 1991

Tritonia diomedea

Bergh, 1894

The body of this tritonid nudibranch is somewhat rectangular in cross section. Rhinophores are distinctive with 20 vertical, plumose yellow to brownish processes which encircle the shaft below its blunt white tip. The ground color varies from white to pink and red above, lighter below. The frontal veil bears 10 to 30 white digitiform processes. The edges of the dorsum have a series of about 30 pale yellow branchial appendages. A distinctive white line delineates the margins of the foot, dorsum and the edge of the rhinophoral sheath. To 215 mm. (Behrens, 1991)



Behrens, 1991

Flabellina iodinea

(Cooper, 1863)

Animal deep purple. The rhinophores are perfoliate and deep maroon in color. The cerata are purple near the bases and bright orange the remainder of their length. May have a white line along the edge of the dorsum. To 40 mm. (Behrens, 1991)