

158. *Terebra tiarella* Deshayes, 1857
(Pl. 41, figs, 158a-c)

1857 *Terebra tiarella* Deshayes, Journ. Conchyl. 6:91, pl. 5, fig. 7.
1958 *Terebra fitchi* S. S. Berry, Leaflets Malac. 1(15):89.

Description: Shell to 34 mm; color cream, reddish brown, or blackish brown; outline of whorls flat except for protruding nodes below suture, weakly turreted; protoconch of 1½ whorls; sub-sutural band of protruding nodes; subsutural groove absent; sutures deep; axial ribs on early whorls only; spiral grooves fine, evenly spaced; body whorl elongate; aperture elongate; columella curved, with 2 weak plications.

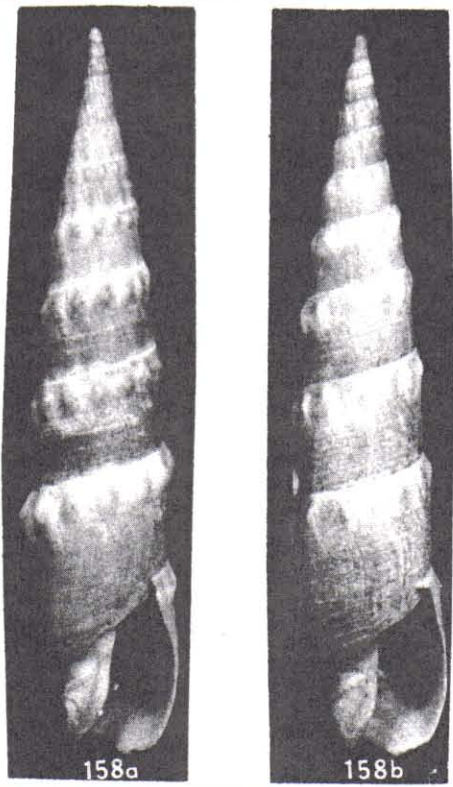
Type locality: *T. tiarella*, "Natal," error. Bahia Santa Maria, Baja California, Mexico, is here designated as the type locality; *T. fitchi*, "Bahia Santa Maria, Isla Magdalena, Baja California."

Distribution: Endemic to the outer coast of Baja California, Mexico.

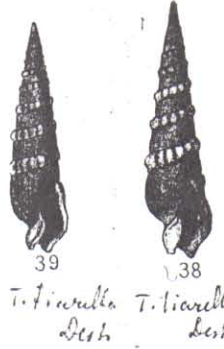
Type: *T. tiarella* lectotype BM(NH) no. 197974, 31.6 × 7.9 mm; *T. fitchi* holotype Berry Coll., 34.3 × 7.9 mm.

Discussion: This species has an extremely long body whorl with large nodes below the suture, making it easy to distinguish from other Panamic terebrids.

B-158-144



158a-c, *T. tiarella* Deshayes. 158a, Lectotype British Museum (N.H.) No. 197974; 31.6 mm. 158b, Paralectotype, same Institution; 31.1 mm.



8, 39. *Terebra tiarella*, Desh. Reeve, Icon., f. 109 a, b, *tiarella* (*Terebra*), Desh. Jour. Conch., 1857, p. 91, pl. v, fig. 7. 12/38 - 39 14 8
TIARELLA, Desh. Pl. 12, figs. 38, 39.

First few whorls plicate, the rest smooth, with spiral impressed ribs, sutural margin a little swollen and conspicuously nodulous; fulvous fawn or chocolate-colored. Length, 28-33 mill.
TAYLOR 25 p 2 Cape of Good Hope.

Species 109. (Fig. a, b, Mus. Cuming.)

TEREBRA TIARELLA. *Ter. testā subulatā, purpureā vel fulvescente-spadiceā, anfractibus declivi-planulatis, primis paucis longitudinaliter plicato-liratis, cæteris lævibus, spiralliter impresso-striatis, ad marginem suturalem conspicuè tuberculato-nodatis; aperturā oblongā, subeffusā, ad basin carinatā et contorto-recurvā.*

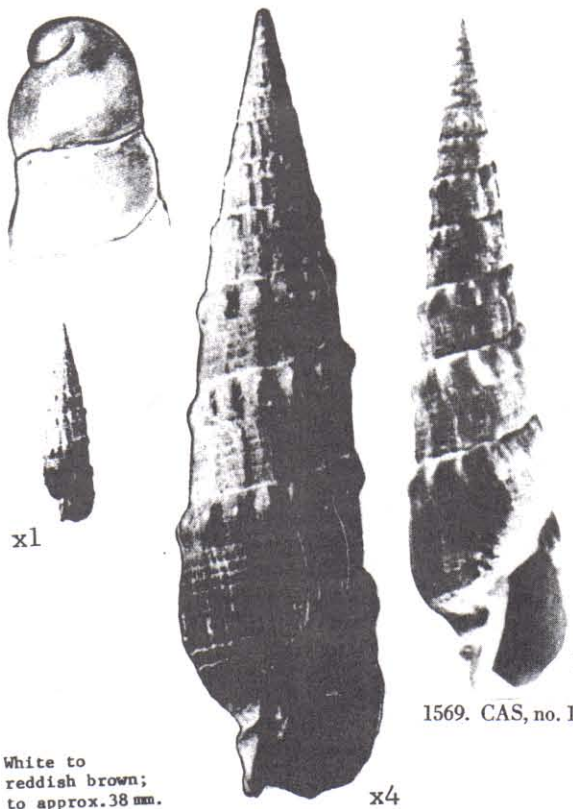
THE LITTLE TIARA TEREBRA. Shell subulate, purple or fulvous fawn, whorls slopingly flattened, the first few longitudinally plicately ridged, the rest smooth, spirally impressly striated, conspicuously tubercularly noduled at the sutural margin; aperture oblong, rather effused, keeled and twistedly recurved at the base.

DESHAYES, Journ. de Conch. 1857.
Hab. Cape Natal.

A comparatively smooth species, neatly coronated with distinct tubercular nodules.



RV 1360



5. TEREBRA TIARELLA, Desh.

T. testa elongata, turrata, angusta, acuminata, fulva, anfractibus latis, primis longitudinaliter tenue plicatis, alteris ad suturam nodoso-crenatis, transversim obsolete rare striatis, striis exilibus incis; ultimo anfractu elongato, cylindraco; apertura intus fulva, elongata, angusta, canali brevi terminata; columella recta, cylindraca, contortula, intus uniplicata.

Var. β . *Testa castaneo fusciscente, tuberculis pallidioribus.*

Var. γ . *Testa omnino candida.*

Long. 32 mill., larg. 8.

Hab. Cape Natal.

Collection Cuming.

Des 1857 p 276

1569. *Terebra tiarella* Deshayes, 1857 (Synonym: *T. fitchi* Berry, 1958).

The white or reddish-brown shell has a row of large nodes below the suture on otherwise flat whorls. Axial ribs cross the whorls in early sculpture but fade out in later whorls. Spiral sculpture is of numerous fine lines. The aperture is elongate, the columella curved, with two weak plications. Length, 34 mm; diameter, 8 mm. Outer coast of Baja California.

MK 4684.

1569. CAS, no. 1,486, San Ignacio Lagoon

5. *T. tiarella* Desh. *J. Conchyl.*, vi, 91, pl. v, f. 7. Cape Natal. Types (2) B.M.

T 44

198. *tiarella*, *Terebra* - DESHAYES, 1857, J. C. P., 6: 91, plt. 5, fig. 7. Hab. Natal. Coll. Cuming. Size: 32x8 mm. Holotype: 31.6 mm; syntype: 31.1 mm. The locality indication is erroneous, as the types appear to be conspecific with *T. fitchi* BERRY, 1958. C 63

White to reddish brown; to approx. 38 mm.

Terebra tiarella Deshayes
BAJA CALIFORNIA S.K.

26. TEREBRA TIARELLA Desh. (Pl. V, fig. 7.)

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T. testa elongata, turrata, angusta, acuminata, fulva; anfractibus latis, primis longitudinaliter tenue plicatis, alteris ad suturam nodoso-crenatis, transversim obsolete rare striatis, striis exilibus incis; ultimo anfractu elongato, cylindraco; apertura intus fulva, elongata, angusta, canali brevi terminata; columella recta, cylindraca, contortula, intus uniplicata.

Var. (β) *testa castaneo fusciscente.*

Hab. cap Natal.

Coquille qui, sous un très-petit volume, reproduit assez exactement le *Terebra crenulata* Lamk. Elle est allongée, très-pointue au sommet. Les tours cylindracs sont saillants, les uns au-dessus des autres comme les tuyaux d'une lunette; les premiers sont couverts de plis longitudinaux très-fins et de nombreuses stries transverses; ces accidents sont rapidement remplacs par de grosses crénelures en forme de nodosités qui s'élèvent sur le bord de la suture; le reste de la surface paraît lisse, mais en l'examinant à la loupe on y remarque un petit nombre de stries transverses, obsolètes et imprimées dans l'épaisseur du têt. Le dernier tour est cylindraccé, terminé par un canal très-court. L'ouverture est allongée, étroite, de la même couleur en dedans qu'au dehors; elle n'est point oblique et la columelle est parallèle au bord droit; elle est cylindraccée, un peu plus pâle que le reste et elle porte un pli à l'intérieur. La couleur de cette coquille est d'une teinte uniforme, d'un brun fauve peu foncé.

Longueur, 32 mill., diamètre, 8.

La variété est d'un brun-marron foncé.

Collection de M. Cuming.

Des 1857 p 91



Terebra (Strioterebrum) tiarella DESHAYES, 1857

(Plate 17, figures 19 to 23)

- 1857 *Terebra tiarella* DESHAYES. Jour. Conchyl. 6: 91, pl. 5, fig. 7.
- 1859 *Terebra tiarella* DESHAYES. Proc. Zool. Soc. London, p. 276. Not figured.
- 1860 *Terebra tiarella* DESHAYES, L. REEVE, Conch. Icon., 13, pl. 21, sp. 109 a, b.
- 1885 *Terebra tiarella* DESHAYES, G. W. TRYON, Jr., Man. Conch., 7: 8; pl. 12, figs. 38, 39.
- 1931 "*Terebra (Strioterebrum) albocincta* (CARPENTER) variety *hindsii* (CARPENTER)", U. S. GRANT, IV & H. R. GALE, Mem. San Diego Soc. Nat. Hist. 1: 469; pl. 32, fig. 35.
- 1958 *Terebra (Strioterebrum) fitchi* BERRY, Leaflets in Malacol., 1 (15): 89, 90. Not figured.
- 1958 *Terebra (Strioterebrum) fitchi* BERRY, A. M. KEEN, Sea shells of tropical west America, p. 491, fig. 962 a.

(these citations are only those considered to be pertinent, hence the list is not complete.)

Shell of medium size, slender, slopes nearly straight. Whorls about thirteen; protoconch smooth, glassy, and dark red, of 1½ whorls with an initial eccentric dome followed by a larger convex whorl; early whorls with 16 to 20 straight axial ribs which on later whorls usually fade to become almost imperceptible; subsutural band becomes wide and heavily nodose; spiral sculpture consists of six to eight minutely pitted incised lines between sutural fascioles, which on the last whorl number about 18; surface with microscopic striulae; aperture elongate, anterior canal short, open and recurved; siphonal fasciole rough and concave; columella twisted to left anteriorly, with a single weak fold; periostracum satiny reddish black and with the exception of the light siphonal fasciole and subsutural nodes the shell is an intense maroon.

After examining several hundred specimens of this species it became apparent that the species is quite variable. The color of the shell may be dark maroon and range through all shades to white. The axial ribs may persist on the later whorls and in some cases develop a small peripheral row of nodes.

Types: The two cotypes of *Terebra tiarella* DESHAYES are in the British Museum (Natural History). The holotype of *T. fitchi* BERRY is in the Type Collection of the Department of Paleontology, Stanford University. A paratype of *T. fitchi* is in my own collection and additional paratypes are in the collection of Dr. S. S. Berry under the number 24715.

CAMPBELL 1964 VERUVER VOL 12 42 3

SEE ALSO CAMPBELL 1964 AT HINDSI, CARPENTER 1857-

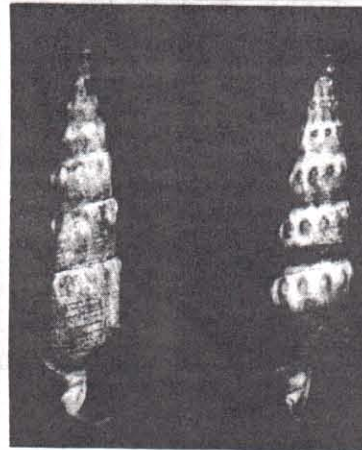
TEREBRA TIARELLA, Deshayes, Reeve, Conch. Icon. sp. 109.—Natal. SOW 1892 64 S.A.F.A.

Terebra tiarella was described by DESHAYES from the Cuming collection and the locality cited was Cape Natal (South Africa). DESHAYES' original figure of *T. tiarella* is so strikingly similar to specimens of *T. fitchi* from Bahía Santa María, Baja California, México, that a search was made to see if *T. tiarella* could be an earlier name for *T. fitchi*. Review of the literature disclosed that *T. tiarella* was listed by several authors as a species not found in the South African fauna. Pursuing this further, I sent several specimens of *T. fitchi*, including a paratype, to Mr. R. N. Kilburn at the University of Natal. His conclusions were (*in litteris*, October 25, 1962): "1. *Terebra tiarella* DESHAYES was based on shells in the Cuming collection, a notorious source of incorrect localities (Cuming did not keep labels with his specimens). 2. This species has never been 'rediscovered' in South Africa, let alone at the type locality, Cape Natal (=Durban). Nor have I seen any reference to its discovery elsewhere in the Indo-Pacific region. 3. All the specimens that you sent agree, in my opinion, very well indeed with the figures and description given by Reeve (Conch. Icon.). The large oblong aperture, prominent nodules and axial ribs on early whorls only seem unmistakable characters."

Although this appeared to be sufficient evidence for regarding *Terebra fitchi* a synonym of *T. tiarella*, I was certain only after receiving negatives from Dr. Robert Robertson of photographs he made at the British Museum (Natural History) of the cotypes of *T. tiarella* DESHAYES. Since *T. tiarella* is the older name it must be adopted for this Eastern Pacific species.

The locality of Cape Natal cited by Deshayes must be regarded as in error; therefore the type locality for *Terebra tiarella* is herein designated as Bahía Santa María, Baja California, México (24° 44' North Latitude; 112° 11' West Longitude).

Range: Long series of specimens studied in the collections at the San Diego Society of Natural History, Los Angeles County Museum, Stanford University, and the California Academy of Sciences appear to limit this species to the West Coast (Pacific) of Baja California. Several lots of specimens suggest that it may range as far north as San Diego, California.



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Figures 22, 23: *Terebra tiarella*.

Co-types British Museum

Dr. Robert Robertson, photo. (x1½)