

DESCRIPTIONS OF NEW SPECIES OF MARINE GASTRO-  
PODÆ INHABITING POLYNESIA.

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TEREBRA.

Thirty-two species of the above genus are known to me as inhabiting the Hawaiian Islands, sixteen of which have not been found elsewhere. Having made lately a critical examination of all specimens collected by me, I am able to add nine species to those previously described.

I discover that the synonymy of *T. Peasii*, Desh., as published by me, was incorrect. I was led into the error by following the name attached to the typical specimens forwarded me. That species is without doubt a synonym of *T. puncticulata*, Desh., and the species mistaken for it is a variety of *T. Swainsonii*, Desh., departing so widely from the type that I distinguish it by a distinct name, as follows:

*T. Swainsonii*, Desh., var. *inflexa*, Pease.

The ribs on the type are straight, and interstices, especially on the upper whorls, faintly and remotely striate transversely.

The ribs on the above variety are flexuous, interstices impressly striate or grooved throughout, and whorls shorter. The shell is usually longer. The figure and description of *T. Swainsonii* in Conch. Icon., are taken from a specimen of the above variety.

*T. SCULPTILIS*, Pease.

*T. elongato-turrita*, gracilis; anfr. 15, superne costa, nodosa, conspicua, cingulatis, utrinque sulco marginata; anfractibus concavo-excavatis, longitudinaliter arcuato-striatis, superne juxta sulcum nodoso-crenulatis; apertura parva, oblonga, columella contorto-recurva; costa alba, interstitiis pallide straminea.

Long. 25. Diam. 4 mill.

*Hab.* Insl. Oahu.

Shell elongate turritid, slender; whorls 15, encircled round the upper part by a conspicuous nodose rib, which is bordered on either side by a groove, whorls between, concave, finely arcuate, striate longitudinally and nodosely crenulate above, next the groove. Color of rib white, remaining portion of the whorls pale straw color.

Closely allied to *T. nebulosa*, Lorois, Jour. de Con. 1858, p. 90, pl. 1, f. 4.

As that name is preoccupied, both by Sowerby and Keiner, the above will take its place, should it prove to be the same species.

*T. SUFFUSA*, Pease.

*T. subulata*, pallide carneo suffusa; anfractibus, fere planis, subconvexiusculis, transversim obsolete tenuiter striata, sulco pertuso superne divisus; sutura subacuta, lacerata; apertura oblongo-ovata, subeffusa; columella subrecta, laminata.

Long. 30. Diam. 9 mill.

*Hab.* Insl. Oahu.

Shell subulate, suffused with pale flesh color; whorls nearly flat, very slightly convex, transversely obscurely finely striate, divided at the upper part by a pricked groove; suture somewhat acute, ragged within; aperture oblong ovate, slightly effuse; columella almost straight, laminate.

May be compared with *T. albida*, Gray, inhabiting Australia.

*T. ROSACEA*, Pease.

*T. aciculari*, gracilis; anfractibus longitudinaliter valde plicato-costatis, interstitiis profunde sulcatis, infra suturam lævibus; apertura oblonga, parva, angusta; columella subrecta; costis albidis, interstitiis, columella, aperturaque, rosaceis.

Long. 20. Diam. 4 mill.

*Hab.* Insl. Oahu.

Shell acicular, slender; whorls longitudinally strongly plicately-ribbed, interstices deeply grooved, except a short space beneath the suture, which is smooth; aperture narrow, oblong, small; columella nearly straight; ribs whitish, interstices, columella, aperture rose pink.

Approaches *T. roseata*, Ad. and Rve. It is more slender, ribs larger, different in color, and interstices between the ribs grooved, instead of clathrated. The latter character, however, is altered in "Con. Icon." from the original, which, however, is

frequently the case throughout that work. The aperture, also, is quite different.

• *T. PROPINQUA*, Pease.

*T. subulata*, cylindrica; anfractibus plano-convexis, longitudinaliter valde plicato-costatis, costis angulatis, arcuatis, interstitiis transversim sulcatis; superne sulco cingulatis; apertura elongata; columella recurva, parum contorta; aurantio-rubra, infra suturam alba, costis hic et illic albis, anfr. ultimus albo fasciatus.

Long. 27. Diam. 6 mill.

*Hab.* Insl. Hawaii.

Shell subulate, cylindrical; whorls flatly convex, longitudinally strongly plicately-ribbed, ribs angulate and curved, interstices transversely deeply grooved, above beneath suture encircled by a groove; aperture elongate; columella somewhat recurved and contorted; orange red, between suture and transverse groove, white, ribs here and there white, and the last whorl encircled by a white band.

The above may be distinguished from *T. undulata*, Gray, by the angulation of its ribs, shape of its columella, and in wanting red stains in the interstices of its ribs.

*T. COSTELLIFERA*, Pease.

*T. subulata*, spira gracilis; anfr. plano-convexis, lævibus, longitudinaliter forte angulate plicato-costatis, infra suturam profunde sulcatis; sutura, sulcoque subangulatis; apertura ovata; columella contorto-recurva, laminata; albida, anfr. partem inferiorem cinereis, infra suturam purpurascens cinerea maculosis; apice interdum fulvescente.

Long. 20. Diam. 5 mill.

*Hab.* Insl. Oahu.

Shell subulate, spire slender; whorls flatly convex, smooth, longitudinally strongly angularly plicately ribbed; below the suture deeply grooved; suture and edge of groove slightly angulate; aperture ovate; columella twistedly recurved, laminate. Whitish, lower part of the whorls pale ash color, blotched or spotted below the suture with purplish ash color, apex somewhat yellowish.

The specimens of this species collected do not appear to be mature.

*T. LAUTA*, Pease.

*T. aciculari*, lævis, coruscata; anfr. planatis, longitudinaliter plicato costatis, costis rectis, angulatis, superne interstices punc-

tatis; apertura parva, angusta, oblonga, vix obliqua; columella subrecta, callo crasso marginata, ad basin uniplicata, superne lævis; plumbeo grisea, infra suturas flavescens cingulata et rufescente fusca maculata; basin fusca, albida aut flavescens unifasciata; columella aperturaque fusca; interdum omnino pallide grisea, aut cinerea, infra suturas maculata.

Long. 26. Diam. 6 mill.

*Hab.* Insl. Oahu.

Shell acicular, smooth, glistening; whorls flattened, longitudinally plicately ribbed, ribs straight, angulate; interstices punctured above; aperture small, narrow, oblong, slightly oblique; columella almost straight, bordered by a laminate callosity connecting with outer lip, at base terminated by a fold, smooth above; color variable, generally of a leaden grey, encircled beneath the suture by a yellowish band, which is spotted with reddish brown; base dark brown, last whorl encircled by a pale yellowish or whitish band; columella and aperture dark brown; sometimes the whorls are wholly ash or grey color, spotted and marked as above.

In good condition, this species is a perfect gem. It approaches nearest to varieties of *T. strigillata*, Linn. On examination, however, it will be found to agree with that species only in the arrangement of its colors.

*T. SULCATA*, Pease.

*T. aciculari*, nitida; anfr. subangustis, infra suturas sulco cingulatis, longitudinaliter plicato-costatis, interstitiis concavis, profunde sulcatis, infra suturas striatis; apertura oblonga angusta; columella lævis, callo marginata, ad labium juncto; cinereo grisea, infra suturas pallidior, interdum costis pallidis.

Long. 15. Diam. 3 mill.

*Hab.* Insl. Oahu.

Shell acicular, shining; whorls rather narrow, encircled below the suture by a groove, longitudinally plicately ribbed, interstices concave, deeply grooved transversely, below the suture striated transversely; aperture oblong, narrow; columella smooth, nearly straight, bordered by a raised callosity, connecting with the outer lip; ashy grey, paler below the sutures, ribs occasionally pale ash color.

The above may prove to be a variety of *T. Swainsonii*, still farther removed from the type than *inflexa*, Pease.

*T. ASSIMILIS*, Pease.

*T. aciculari*, nitida; anfractibus lævis, longitudinaliter angu-

late plicato-costatis, superne, interstitiis punctatis; apertura oblongo-ovata; columella brevi, carinata, contorta; fusca, infra suturas grisea; columella aperturae fuscis.

Long. 15. Diam. 3 mill.

Hab. Insl. Oahu.

Shell acicular, shining; whorls flattened, smooth, longitudinally angulately plicately ribbed, interstices punctured above; aperture oblong ovate; columella short, keeled, twisted; brown, below the sutures greyish; columella and aperture brown.

PLEUROTOMA LIRATA, Pease.

T. fusiformi, turrita, undique carinata, carinis subdistantibus, subaequalis, carina in medio anfractuum paulo maxima, superficis intermediis concavis, carinarum interstitiis tenuiter longitudinaliter striatis; sinu profundo; canali brevi; alba, carinis rufescente fusco maculatis.

Long. 35. Diam. 12 mill.

Hab. Insl. Oahu.

Shell fusiform, turritid, keeled all over, keels nearly of the same size, and almost equidistant, the keel on the middle of the whorls slightly the largest, the intermediate superficies concave, interstices between the keels finely striate longitudinally; sinus deep; canal short; white, keels spotted with reddish brown.

The above species may be distinguished by the regularity of its keels. The spots are small, oblong, and confined to the edge of the keels.

PLEUROTOMA MONILIFERA, Pease.

T. gracile fusiformi, turrita; anfractibus medio costa nodulosa cingulatis, nodis lateraliter compressis, vix incis, infra carina parva marginatis; medio inter costis nodulosis carina elevata cingulata, interstitiis concavis, elevato striatis, longitudinaliter tenuiter striatis; cinereo-fusca, infra costam pallidior; canali elongato, recto; sinu profundo.

Long. 27. Diam. 8 mill.

Hab. Insl. Oahu.

Shell slenderly fusiform, turritid; whorls encircled round the middle by a nodulose rib, nodules compressed laterally and slightly indented on their sides, bordered beneath by a small smooth keel, and a more elevated one intermediate between the nodulose rib; interstices concave, elevatedly striate transversely and finely striate longitudinally; canal long, straight; sinus deep; ashy brown, lighter below the ribs, nodulose rib whitish.

A beautiful species, when in good condition.

Mr. Hinds observed that no species of *Pleurotoma* proper inhabit Polynesia. Such we believe to be the case as regards Southern and Western Polynesia. The above two are the only ones known to me as inhabiting the Hawaiian Islands. Specimens have been laying in my collection for several years past, dead and broken, awaiting the discovery of perfect ones, which are very rarely met with.

MITRA NEWCOMBII, Pease.

T. elongata, subcylindraco-fusiformi; spira brevis, acuta; anfr. plano-convexis, transversim punctato-striatis, interdum striis in medio anfr. ultimo evanidis; anfr. ultimo superne, spirae striis impressis decussatis; basi remote sulcata, vix truncata; columella quinqueplicata; alba, remote rufescente fusca punctulata; anfr. ultimo fascia lata fusca cingulata.

Long. 27. Diam. 8 mill.

Hab. Insl. Oahu.

Shell elongate, rather cylindrically fusiform; spire short, acute; whorls flatly convex, transversely punctate striate, striae becoming sometimes obsolete on middle of last whorl; spire and upper part of last whorl decussated by longitudinal impressed striae; base distantly grooved and somewhat truncate; columella five plaited. White, remotely punctured with reddish brown dots, last whorl encircled with a broad dark brown band.

Had not Mr. Reeve decided *M. bicolor*, Swain., to be the young of *M. casta*, I should have connected the above species with it as a variety. I am of opinion that the shell figured by M. Kiener, pl. 32, is the above species, especially fig. 106a, though of much smaller size. I have specimens of *M. casta* from both Eastern and Western Polynesia. Those from the west vary in the transverse striae extending over the upper part of the last whorl. It cannot, however, be confounded with the above species, which resembles in shape *M. filum*, Reeve, to which it is also allied in other respects.

ALCYNA LINEATA, Pease.

T. subelevato-turbinata, crassa, anguste perforata, transversim lirata; anfr. 4, convexis; apertura ovata; labro intus incrassato; liris rubris, interstitiis albidis, apice columellaque albis.

Alt. 2½. Diam. 1¼ mill.

Hab. Insl. Oahu.

Shell somewhat elevatedly turbinated, solid, thick, narrowly perforate, transversely ridged; whorls 4, convex; aperture