

2. A CATALOGUE OF THE SPECIES OF EMARGINULA, A GENUS OF GASTEROPODOUS MOLLUSCA, BELONGING TO THE FAMILY FISSURELLIDÆ; IN THE COLLECTION OF H. CUMING, ESQ. BY ARTHUR ADAMS, R.N., F.L.S. ETC.

Genus EMARGINULA, Lamarck.

Head probosciform; tentacles subulate, with the eyes on tubercles at their external bases; foot with a range of cirrhi round the sides; mantle-margin simple; branchial plumes two; anal siphon with its angulated membranous sides projecting from the edges of the fissure; tongue with a central laminar subquadrate tooth and numerous lateral teeth.

Shell conical, with an elevated slightly recurved entire vertex turned towards the posterior end; surface cancellated; aperture emarginated in front by a slit, which runs for some distance up the shell; interior without a partition; muscular impression crescentic, interrupted in front.

Emarginulus, Montf.—*Patella*, sp. Linn.

1. EMARGINULA FISSURA, Linn.

Patella fissura, Linn. Syst. Nat. ed. 12. p. 1261.—*Emarg. fissura*, Flem.—*Emarg. lævis*, Recluz.—*Emarg. curvirostris*, Macgil.

Hab. British Islands. Mus. Cuming.

2. EMARGINULA RETICULATA, Chemn.

Emarg. reticulata, Chemn.; Sowerby, Genera (Emarg.), f. 5.

Hab. Malta, on stones. Mus. Cuming.

3. EMARGINULA CANCELLATA, Philippi.

Emarg. cancellata, Phil. En. Moll. Sicil. pl. 7. fig. 15.—? *Patella crystallina*, Wood.

Hab. Sicily, and island of Paros. Mus. Cuming.

4. EMARGINULA FISSURATA, Chemn.

Patella fissurata, Chemn. 11. 1929–30; Sowerby, Genera (Emarg.), fig. 3.—*Emarg. rubra*, Lam. Hist.

Hab. Seas of Europe. Mus. Cuming.

5. EMARGINULA CURVIROSTRIS, Deshayes.

Emarg. conica, Blainville, Man. pl. 48. fig. 4.

Hab. —?

6. EMARGINULA ROSEA, Bell.

Emarg. rosea, Bell, Zool. Journ. vol. i. 1824.—*Emarg. pileolus*, Michaud.—*Emarg. capuliformis*, Philippi.

Hab. British Islands. Mus. Cuming.

7. EMARGINULA CRASSA, J. Sowerby.

Emarg. crassa, J. Sowerby, Min. Conch. pl. 33; Forbes and Hanley, Brit. Moll. pl. 63. fig. 2.

Hab. Norwegian Seas. Mus. Cuming.

8. EMARGINULA HUZARDII, Payrandeau.

Emarg. Huzardii, Payr.*Hab.* — ?

9. EMARGINULA SOLIDULA, Costa.

Emarg. solidula, Costa.*Hab.* Catania. Mus. Cuming.

10. EMARGINULA ELONGATA, Philippi.

Emarg. elongata, Phil. En. Moll. Sicil. pl. 110. fig. 2.*Hab.* Mediterranean. Mus. Cuming.

11. EMARGINULA VANICORENSIS, Quoy et Gaimard.

Emarg. Vanicorensis, Quoy et Gaimard, Voy. de l'Astrol. pl. 68. fig. 19, 20.*Hab.* Vanicoro. Mus. Cuming.

12. EMARGINULA STRIATULA, Quoy et Gaimard.

Emarg. striatula, Quoy et Gaimard, Voy. de l'Astrol. pl. 68. fig. 21, 22.*Hab.* — ? Mus. Cuming.

13. EMARGINULA CUVIERI, Savigny.

Emarg. Cuvieri, Savigny, Egypt, tab. 3. fig. 2.*Hab.* Egypt. Mus. Cuming.14. EMARGINULA CLYPEUS, A. Adams. *E. testá elongato-ellipticá, valdè depressá, testaceá, maculá luteolá in medio dorsi, vertice subcentrali, posticè inclinato; costis confertis, æqualibus, radiantibus, imbricato-asperis, ornatá; basi arcuato; aperturæ margine crenulato, anticè valdè fissurato; fissurá magná; aperturá intus bimaculosá.**Hab.* Isle of Burias, Philippines, on dead shells, 7 fathoms, sandy mud. Mus. Cuming.15. EMARGINULA SCABRIUSCULA, A. Adams. *E. testá elongato-ellipticá, depresso-conicá, testaceá, vertice subpostico, retrorsum inclinato; costis inæqualibus, radiantibus, imbricato-subaculeatis, asperis, et lineis elevatis, concentricis, cancellatá; aperturá anticè angustatá, basi arcuatá, margine creno-denticulato.**Hab.* — ? Mus. Cuming.16. EMARGINULA OBOVATA, A. Adams. *E. testá elongatá, obovatá, depresso-conicá, testaceá, vertice subcentrali, retrorsum inclinato, costellis radiantibus, imbricato-asperis, et liris elevatis, concentricis, cancellatá; aperturá posticè rotundatá, anticè angustatá, margine creno-denticulato, anticè profundè inciso.**Hab.* Catbalonga, isle of Samaar, on stones, 4 fathoms. Mus. Cuming.

17. *EMARGINULA INCISURA*, A. Adams. *E. testá elongato-ovali, planulatá, pallide fulvá, vertice antico retrorsum inclinato, costellis inæqualibus, radiantibus, longitudinalibus, imbricato-asperis, et lineis elevatis, concentricis, decussatá, basi arcuato, aperturæ margine crenulato, anticè declinato, valdè fissurato, incisurá magná, longá, haud usque ad verticem productá, marginibus intus callosis.*
Hab. —? Mus. Cuming.
18. *EMARGINULA MICANS*, A. Adams. *E. testá elongato-ovali, pallide fuscá, nitidá, vertice posticè declinato, costellis radiantibus et lineis elevatis transversis, regulariter cancellatá, cancelli quadrati; aperturæ margine denticulato, incisurá magná et longá.*
Hab. Rains Island, North Australia (*Lieut. Ince*). Mus. Cuming.
19. *EMARGINULA PUNCTATA*, A. Adams. *E. testá ovato-conicá, albido-griseá, pulcherrimè viridi punctatá, vertice subcentrali, posticè inclinato; costis longitudinalibus (majoribus cum minoribus alternatis) concinnè granulatis; aperturæ margine crenulato, excurvato, anticè valdè fissurato.*
Hab. San Nicholas, island of Zebu, under stones, low water. Mus. Cuming.
20. *EMARGINULA VARIEGATA*, A. Adams. *E. testá ovato-conicá, albidá, rufo-fusco variegatá, vertice acuto, subcentrali, posticè inclinato, costellis radiantibus, æqualibus, imbricato-asperis, ornatá; aperturæ margine denticulato, anticè fissurato, fissurá brevi subquadratá.*
Hab. Isle of Camaguan, Philippines, on exposed rocks, low water. Mus. Cuming.
21. *EMARGINULA PUNCTICULATA*, A. Adams. *E. testá elevato-conicá, capuliformi, albá, fusco punctulatá, costellis planulatis, crebris, longitudinalibus, radiantibus, ornatá; aperturá ovali, margine crenulato, anticè profundè fissurato; fissurá magná et longá.*
Hab. Calapan, island of Mindoro, Philippines, on stones, 12 fathoms. Mus. Cuming.
22. *EMARGINULA FULIGINEA*, A. Adams. *E. testá ellipticá, valdè depressá, fuliginéá, apice subcentrali, posticè inclinato, costellis æqualibus, radiantibus, granulosis, confertis, et lineis incrementi concentricis, ornatá; aperturá ovali, intus viridi, margine crenulato, anticè fissurato, incisurá intus in canalem productá.*
Hab. —? Mus. Cuming.
23. *EMARGINULA GALERICULATA*, A. Adams. *E. testá obliquè conicá, capuliformi, vertice valdè curvato, ultra marginem posteriorem decumbente, costellis angustis, crenulatis, radiantibus, interstitiis lineis elevatis, transversis, concinnè clathratis;*

costâ anticâ, supra incisuram, granulato-punctatâ; aperturæ margine crenulato, anticè profundè inciso.

Hab. Calapan, isle of Mindoro, on stones, 12 fathoms. Mus. Cuming.

24. *EMARGINULA PULCHRA*, A. Adams. *E. testâ depresso-conicâ, viridi, albo pulcherrimè radiatim pictâ, vertice subcentrali, posticè inclinato, costis radiantibus, inæqualibus, aculeato-asperis, interstitiis lineis elevatis transversis clathratis; aperturæ margine denticulato, anticè inciso, fissurâ brevi subquadratâ.*

Hab. Isle of Camaguan, Philippines, on exposed rocks, low water. Mus. Cuming.

25. *EMARGINULA CONCINNA*, A. Adams. *E. testâ ovato-depressâ, albidd, vertice postico, ad marginem declinato, costis sulcosis, distantibus, radiantibus (circa 12), interstitiis lineis longitudinalibus, et transversis, concinnè decussatis; aperturæ margine dentato, anticè profundè inciso.*

Hab. —? Mus. Cuming.

26. *EMARGINULA VIMINEA*, A. Adams. *E. testâ ovato-conicâ, albidd, vertice centrali, retrorsum inclinato, costellis radiantibus, nodulosis, subæqualibus, et lineis crassis, transversis, regulariter cancellatâ; cancelli profundi, punctiformes; aperturæ margine crenato, anticè profundè inciso.*

Hab. Philippine Islands. Mus. Cuming.

27. *EMARGINULA EXCURVATA*, A. Adams. *E. testâ elongato-ellipticâ, depresso-conicâ, testaceâ, apice acuto, subpostico, retrorsum inclinato, costis radiantibus, et liris concentricis, elevatis, cancellatâ, liris ad costas nodulosis, basi arcuato; aperturæ margine excurvato, crenulato, anticè profundè inciso.*

Hab. —? Mus. Cuming.

28. *EMARGINULA DILECTA*, A. Adams. *E. testâ elongato-ovali, subquadrangulari, albâ, valdè depressâ, vertice subpostico, retrorsum declinato, costis subdistantibus, radiantibus, asperulatis, et liris elevatis, concentricis, pulcherrimè cancellatâ; basi arcuatâ; aperturæ margine denticulato, anticè valdè fissurato.*

Hab. King George's Sound, South Australia. Mus. Cuming.

29. *EMARGINULA SCABRICOSTATA*, A. Adams. *E. testâ ovali, valdè depressâ, albidd, fasciis tribus, lutescentibus, radiantibus, anticè ornatâ; vertice subcentrali, posticè inclinato, costis radiantibus, distantibus, corrugatis, interstitiis valdè clathratis et corrugatis; aperturæ margine dentato et denticulato, anticè valdè inciso.*

Hab. Isle of Corrigidor, Bay of Manila, on dead shells, sandy mud, 12 fathoms. Mus. Cuming.

30. *EMARGINULA CANDIDA*, A. Adams. *E. testâ ellipticâ, depresso-conicâ, obliquâ, albâ, vertice subpostico, retrorsum decli-*

nato, costis radiantibus, imbricato-asperis (majoribus cum minoribus alternatis), interstitiis clathratis; aperturæ margine denticulato, anticè profundè inciso.

Hab. Port Adelaide, Australia, on the sands. Mus. Cuming.

31. *EMARGINULA BELLULA*, A. Adams. *E. testá elongato-ellipticá, subdepressá, albidd, vertice subpostico, declinato, costis distantibus prominentibus, lineisque transversis concinnè sculptis; cariná, supra incisuram, puncturatá; aperturæ margine denticulato, intus sulcato, anticè profundè inciso.*

Hab. Catanuan, province of Toyabos, island of Luzon, on dead shells, 10 fathoms. Mus. Cuming.

32. *EMARGINULA RETECOSA*, A. Adams. *E. testá elevato-conicá, ellipticá, albidd, vertice subcentrali, posticè inclinato, costis radiantibus, æqualibus, subnodosis, ornatá; interstitiis regulariter cancellatis, cancelli in serie unico dispositi; aperturæ margine crenulato, incisurá profundá.*

Hab. Bolinao, province of Tambalas, island of Luzon, sandy mud, 10 fathoms. Mus. Cuming.

33. *EMARGINULA EXIMIA*, A. Adams. *E. testá elongato-ovali, valdè depressá, albd, subpellucidá, vertice postico retrorsum inclinato, costis radiantibus, distantibus, prominentibus, imbricato-nodososis, interstitiis liris transversis et longitudinalibus latè cancellatá; totá superficie lineolis radiantibus et concentricis pulcherrimè decussatá; aperturæ margine denticulato, anticè profundè inciso.*

Hab. San Nicholas, island of Zebu, under stones, low water. Mus. Cuming.

34. *EMARGINULA PLANULATA*, A. Adams. *E. testá elongato-ovali, complanatá, vertice subcentrali, posticè inclinato, albidd, costellis radiantibus, æqualibus, imbricato-asperis, lineisque concentricis incrementi decussatá, basi arcuato; aperturæ margine anticè valdè inciso; incisurá latá et profundá.*

Hab. Singapore, coarse sand and shells, 7 fathoms. Mus. Cuming.

35. *EMARGINULA CUCULLATA*, A. Adams. *E. testá obovali, obliquè conicá, albd, vertice producto, subpostico, intorto; costis prominentibus, nodulosis, radiantibus, interstitiis cancellatis; aperturæ lateribus anticè angustatis, margine denticulato, posticè rotundato, anticè profundè fissurato, incisurá longá et latá.*

Hab. Singapore, on shells, 7 fathoms. Mus. Cuming.

36. *EMARGINULA ACULEATA*, A. Adams. *E. testá elongato-ovali, depressá, rufescente, vertice subpostico, retrorsum inclinato; costis radiantibus, aculeato-asperis, prominentibus, interstitiis valdè clathratis; aperturæ margine denticulato, anticè fissurato, fissurá profundá.*

Hab. —? Mus. Cuming.

37. *EMARGINULA LÆVICOSTATA*, A. Adams. *E. testá parvá, ellipticá, valde depressá, apice subpostico, retrorsum inclinato, costis lævibus, radiantibus (circa 14), interstitiis costellis longitudinalibus, et lineis transversis latè clathratis; aperturæ margine denticulato, lateribus anticè angustatis, anticè valdè inciso.*

Hab. —? Mus. Cuming.

Subgenus *CLYPIDINA*, Gray.

Shell ovate, conical, surface with radiated ribs; vertex acute, central, not recurved; aperture with the margin crenulated; muscular impression fungiform, anal groove and emargination inclining towards the right anterior margin (in the natural position of shell).

1. *CLYPIDINA NOTATA*, Linn.

Patella notata, Linn. Chemn. Conch. vol. x. p. 321. Vign. 25. fig. C. D.

Hab. West Indies. Mus. Cuming.

2. *CLYPIDINA RUGOSA*, Quoy and Gaimard.

Emarginula rugosa, Quoy and Gaim. Voy. de l'Astr. p. fig. .

Emarg. conoida, Reeve, Conch. Syst. pl. 160. fig. 7.

Hab. Australia. Mus. Cuming.

3. *CLYPIDINA ASPERA*, Gould.

Emarginula aspera, Gould, Expedition, Shells, p. 12.

Hab. Sydney, New South Wales. Mus. Cuming.

4. *CLYPIDINA FUNGINA*, Gould.

Emarginula fungina, Gould, Expedition, Shells, p. 12.

Hab. Upolu. Mus. Cuming.

5. *CLYPIDINA SULCIFERA*, A. Adams. *C. testá ovali, depresso-conicá, viridescenti, vertice obtuso, ad partem posteriorem posito; costellis radiantibus, interstitiis haud æquantibus, et striis incrementi ornatis; basi arcuatá; aperturæ margine crenulato, incisurá haud profundá, sublaterali, intus in canalem productá.*

Hab. —? Mus. Cuming.

6. *CLYPIDINA RUDIS*, A. Adams. *C. testá crassá, rudí, albidá, depresso-conicá, costis octo angulatis radiantibus, interstitiis costellis longitudinalibus et lineis concentricis decussatis; apice subcentrali; basi arcuato; aperturæ margine crenato, anticè sinuato, sinu intus in canalem producto.*

Hab. —? Mus. Cuming.

7. *CLYPIDINA STELLATA*, A. Adams. *C. testá solidulá, albidá, ellipticá, depresso-conicá, apice subcentrali, costis elevatis, subspinulosis, radiantibus; interstitiis costellis et striis crebris decussantibus, exasperatis; aperturæ margine dentato, sinu sublaterali, intus in canalem apicem versus producto.*

Hab. Australia. Mus. Cuming.

8. *CLYPIDINA SCABRICULA*, A. Adams. *C. testá elongato-ovali, obliquè conicá, costis radiantibus, elevatis, distantibus, asperulatis, interstitiis costellis longitudinalibus et lineis scabriusculis valdè cancellatá; vertice subcentrali, posticè inclinato; aperturæ margine dentato-crenulato; incisurá profundá, intus in canalem productá.*

Hab. Australia. Mus. Cuming.

9. *CLYPIDINA ANNULATA*, A. Adams. *C. testá crassá, ellipticá, albidá, annulo luteo-fusco circumcinctá; costis elevatis asperis radiantibus distantibus, interstitiis costellis longitudinalibus et lineis transversis elevatis concinnè clathratis; aperturæ margine duplicato, incrassato, pulcherrimè fimbriato, sinu quadrato intus in canalem producto; aperturá intus annulá albidá.*

Hab. Australia. Mus. Cuming.

10. *CLYPIDINA ACUMINATA*, A. Adams. *C. testá elevato-conicá, albidá, viridi annulatá, costis longitudinalibus radiantibus, imbricato-asperis, interstitiis tricostulatis, costellis imbricato-asperis; sulcis transversis concentricis, distantibus, impressá; vertice acuminato, acuto, subcentrali; aperturæ margine valdè crenulato, sinu subquadrato, intus in canalem producto.*

Hab. Australia. Mus. Cuming.

11. *CLYPIDINA CANDIDA*, A. Adams. *C. testá ellipticá, solidulá, conicá, candidá, costellis asperulatis inæqualibus, radiantibus, et striis elevatis transversis, concentricis, decussatá; vertice subcentrali; aperturæ margine crenulato, sinu brevi, intus in canalem producto.*

Hab. Port Adelaide, Australia. Mus. Cuming.

Subgenus TUGALI, Gray.

Shell oblong, narrow anteriorly, back elevated, cancellated; apex posterior and recurved; aperture with the margin crenulated, and deeply sinuated anteriorly.

1. *TUGALI ELEGANS*, Gray.

Tugali elegans, Gray, Cat. Moll. New Zealand.

Hab. New Zealand. Mus. Cuming.

2. *TUGALI INTERMEDIA*, Reeve.

Parmophorus intermedius, Reeve, Proc. Zool. Soc. 1842; Conch. Syst. pl. 139. fig. 5, 6.

Hab. —? Mus. Cuming.

3. *TUGALI OSSEA*, Gould.

Emarginula ossea, Gould, Expedition, Shells, p. 13.

Hab. Feejee Islands. Mus. Cuming.

4. *TUGALI CINEREA*, Gould.

Emarginula cinerea, Gould, Expedition, Shells, p. 13.

Hab. —? Mus. Cuming.

5. TUGALI PARMOPHOROIDEA, Quoy et Gaimard.

Emarginula parmophoroidea, Quoy et Gaim. Voy. de l'Astrol. pl. 68. fig. 15, 16.

Hab. Eastern Seas.

6. TUGALI CARINATA, A. Adams. *T. testá elongato-ovali, dorso carinatá, costis longitudinalibus, radiantibus, confertis, et striis transversis, concentricis, decussatá; apice posticè declinato; basi arcuatá; aperturæ margine crenulato, extremitate anteriori sinuato, sinu intus in canalem producto.*

Hab. Philippines. Mus. Cuming.

7. TUGALI CICATRICOSA, A. Adams. *T. testá elongato-ovali, albá, dorso valdè depressá, costellis radiantibus et lineis concentricis elevatis decussatá, vertice subpostico depresso excavato quasi cicatricoso, subpellucido; basi arcuato; aperturæ margine crenulato, extremitate anteriori sinuato, sinu intus in canalem producto.*

Hab. Philippines. Mus. Cuming.

8. TUGALI SCUTELLARIS, A. Adams. *T. testá elongato-ovali, virido-fuscá, tenui, dorso planulatá, vertice postico, acuto, vix elevato, costellis radiantibus subdistantibus, et striis concentricis incrementi, decussatá; extremitate anteriori vix sinuato; aperturá intus fuscá, margine subcrenulato.*

Hab. Bais, Philippines. Mus. Cuming.

9. TUGALI RADIATA, A. Adams. *T. testá elongato-ovali, luteolá, valdè depressá, costis radiantibus, rotundatis, elevatiusculis, distantibus, et striis concentricis, ad incrementum ornatá; aperturá intus albidá, margine crenulato, extremitate anteriori vix sinuato.*

Hab. Catanuan, Philippines. Mus. Cuming.

10. TUGALI DECUSSATA, A. Adams. *T. testá elongato-ovali, albidá, planulatá, dorso carinatá, costellis longitudinalibus, radiantibus, et lineis elevatis concentricis eleganter clathratá; vertice acuto, postico; aperturæ margine crenulato, anticè sinuato, sinu intus in canalem producto.*

Hab. Philippine Islands. Mus. Cuming.

Subgenus SUBEMARGINULA, Blainville.

Shell conical, compressed, vertex inclined towards the posterior margin; aperture with the anterior margin folded in the form of a gutter or channel; surface cancellated.

Hemitoma, Swainson.

1. SUBEMARGINULA EMARGINATA, Blainv.

Emarginula emarginata, Blainv. Man. de Malac. pl. 48 bis. fig. 2.

Hab. Honduras. Mus. Cuming.

2. SUBEMARGINULA OCTORADIATA, Gmel.

Patella octoradiata, Gmel.; Lister, 532.11.—*Emarg. Listeri*, Ant.

Hab. —? Mus. Cuming.

3. SUBEMARGINULA DEPRESSA, Blainv.

Emarginula depressa, Blainv. Man. de Malac. pl. 48 bis. fig. 3.

Hab. Honduras. Mus. Cuming.

4. SUBEMARGINULA CLATHRATA, Adams and Reeve.

Emarginula clathrata, Adams and Reeve, Moll. Zool. Voy. Samarang, pl. 11. fig. 6.

Hab. Mindoro Sea. Mus. Cuming.

5. SUBEMARGINULA PANIHENSIS, Quoy et Gaimard.

Emarginula Panihensis, Quoy et Gaim. Voy. de l'Astrol. pl. 67. fig. 7, 8.

Hab. Island of Panhi. Mus. Cuming.

6. SUBEMARGINULA TRICOSTATA, Chemn.

Patella tricostata, Chemn.; Sowerby, Gen. of Shells, No. 34. fig. 6.

Hab. —?

7. SUBEMARGINULA AUSTRALIS, Quoy et Gaimard.

Emarginula australis, Quoy et Gaim. Voy. de l'Astrol. pl. 68. fig. 11, 12.

Hab. Australia. Mus. Cuming.

8. SUBEMARGINULA ELARGIE, Quoy et Gaimard.

Emarginula elargie, Quoy et Gaim. Voy. de l'Astrol. pl. 68. fig. 9, 10.

Hab. Philippines. Mus. Cuming.

9. SUBEMARGINULA GALEATA, A. Adams. *S. testâ griseo-rufescente, elevato-conicâ, tenui, vertice subcentrali, posticè inclinato, costis tuberculosi, radiantibus, albidis, et lineis transversis, elevatis, subclathratis, costâ anticâ prominenti; aperturæ margine dentato, anticè valdè sinuato, sinu intus in canalem producto.*

Hab. Philippine Archipelago. Mus. Cuming.

10. SUBEMARGINULA ARABICA, A. Adams. *S. testâ albidâ, crassâ, depresso-conicâ, vertice obtuso subcentrali, posticè inclinato; costis radiantibus tuberculosi et liris elevatis transversis clathratâ; aperturæ margine incrassato, crenato, anticè sinuato, sinu intus in canalem producto.*

Hab. Red Sea. Mus. Cuming.

11. SUBEMARGINULA ALVEOLATA, A. Adams. *S. testâ tenui, albâ, subpellucidâ, depresso-conicâ, vertice subcentrali, posticè inclinato; costis radiantibus lirisque transversis irregulariter alveolatâ; costis ad liras nodulosi; alveolis pellucidis; aperturæ margine dentato, anticè sinuato, sinu intus in canalem producto.*

Hab. Honduras. Mus. Cuming.

12. SUBEMARGINULA IMBRICATA, A. Adams. *S. testá ovato-oblongá, subquadrangulari, cinereo-albídâ, vertice parvo, centrali, posticè inclinato; costis radiantibus imbricato-asperis, inæqualibus, et lineis crassis irregularibus incrementi decussatâ; aperturæ margine dentato, anticè valdè sinuato, sinu subquadrato, intus in canalem producto.*

Hab. Mouth of Victoria River, north-east coast of Australia, under stones, low water. Mus. Cuming.

13. SUBEMARGINULA PUMILA, A. Adams. *S. testá orbiculato-ovali, valdè depressâ, apice subcentrali, posticè inclinato; costis radiantibus, nodosis, inæqualibus, et lineis elevatis concentricis incrementi, decussatâ; aperturæ margine denticulato-crenato, anticè profundè sinuato; sinu subquadrato, intus in canalem producto.*

Hab. —? Mus. Cuming.

14. SUBEMARGINULA CATILLUS, A. Adams. *S. testá elongato-ovali, valdè depressâ, vertice vix elevato, posticè inclinato; costis radiantibus nodulosis, crassis, et lineis incrementi transversis, ornatâ; aperturæ margine irregulari, crenulato, intus calloso, anticè valdè sinuato.*

Hab. —? Mus. Cuming.

15. SUBEMARGINULA DENTICULATA, A. Adams. *S. testá elongato-ovali, albâ, novem-radiatâ, vertice acuto posticè inclinato, costis novem, crassis, rugulosis, radiantibus; intervallis costellatis, costellis longitudinalibus, asperulatis; aperturæ margine dentato, et denticulato, anticè emarginato, incisuræ lateribus incrassatis, anticè in dentes duos productis.*

Hab. Mexico. Mus. Cuming.

16. SUBEMARGINULA POLYGONALIS, A. Adams. *S. testá elongato-ovali, depresso-conicâ, albâ, octoradiatâ, vertice subcentrali, posticè inclinato, costis radiantibus subnodulosis, longitudinalibus (octo majoribus), lineis concentricis incrementi asperâ; aperturâ octagonali, margine crenulato, anticè valdè sinuato, sinu intus in canalem producto.*

Hab. Catanuan, Philippines. Mus. Cuming.

17. SUBEMARGINULA CRASSILABRUM, A. Adams. *S. testá ellipticâ, crassâ, rudi, albâ, depresso-conicâ, vertice subcentrali, eroso, costis radiantibus distantibus, inæqualibus, subaculeatis, ornatâ; aperturæ margine crenato-denticulato, posticè recto, anticè rotundato, sinuato, sinu intus in canalem producto.*

Hab. —? Mus. Cuming.

18. SUBEMARGINULA NODULOSA, A. Adams. *S. testá ovatâ, obliquè conicâ, albido-rufescenti, vertice subcentrali, posticè declinato; costis longitudinalibus nodosis, radiantibus, duabus latere anterioribus permagnis, liris irregularibus transversis,*

decussatâ; aperturæ margine irregulari, posticè acuminato, anticè truncato, sinuato, sinu intus in canalem producto.

Hab. Sibonga, island of Zebu, on small stones, 10 fathoms. Mus. Cuming.

19. SUBEMARGINULA CRATITIA, A. Adams. *S. testâ ovatâ, conicâ, albidâ, vertice obtuso, centrali, posticè haud inclinato, costis radiantibus distantibus, nodulosis; interstitiis costellis duabus longitudinalibus, et lineis elevatis, transversis, eleganter cancellatis; aperturæ margine crenulato, anticè sinuato, sinu quadrato, intus in canalem producto.*

Hab. —? Mus. Cuming.

20. SUBEMARGINULA SCULPTILIS, A. Adams. *S. testâ ovali, obliquè conicâ, albidâ, viridi radiatim maculatâ; vertice subcentrali, posticè valdè declinato; costis radiantibus, longitudinalibus, corrugatis; interstitiis pulcherrimè punctato-clathratis; costâ anticâ prominenti, crenulatâ; aperturæ margine undulato et crenulato, posticè rotundato, anticè truncato et sinuato, sinu intus in canalem producto.*

Hab. Calapan, island of Mindoro, on small stones, 12 fathoms. Mus. Cuming.

3. DESCRIPTION OF A NEW SPECIES OF BULIMUS FROM CALLAO, COLLECTED BY ERNESTE DENICKE.

COMMUNICATED BY J. E. GRAY, ESQ., V.P.Z.S.

Mr. Erneste Denicke, a sailor on board a Hamburg vessel trading with Chili, called at the British Museum, and informed me that he had a new species of *Bulimus*, which he had discovered on the Whitesand Hill at Chala, near Callao. He further stated that he had collected the Chilian shells, and had studied shells in general, and that he was convinced that it was a new species. Having compared the shell with the species in the English collections and the descriptions in Pfeiffer, and being satisfied that M. Denicke was correct in his idea, I propose that it should be named after that conchologist.

It was pleasing to see the intimate knowledge which he had acquired of the genera and species of shells, and the interest which he took in the study, when we consider the laborious nature of his occupation, and the very little time that he had at his command. The only holidays he had while his ship was in London were spent at the British Museum, at Mr. Cuming's collection, and in the gardens of the Zoological Society.

BULIMUS DENICKEI.

Shell conical, trochiform, white, the upper whorls small, forming a rather produced tip, the others rapidly enlarging, slightly convex, forming a conical spire, the last angularly keeled; axis perforated; mouth rhombic; outer lip slightly reflexed, acute; throat deep rose-coloured.

Hab. Chala, near Callao, on the Whitesand Hills.



Adams, Arthur. 1852. "A catalogue of the species of Emarginula, a genus of Gasteropodous Mollusca, belonging to the family Fissurellidae; in the Collection of H. Cuming, Esq." *Proceedings of the Zoological Society of London* 1851, 82–92.

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