

# PROCEEDINGS

OF THE

SCIENTIFIC MEETINGS

OF THE

# ZOOLOGICAL SOCIETY

## OF LONDON

FOR THE YEAR

# 1862.



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M. J. ROTHSCHILD,  
14, RUE DE BUCY.

LEIPZIG :  
M. J. ROTHSCHILD,  
2, QUERSTRASSE.

The Beaver, the subject of the foregoing remarks, was presented to the Society by the Hudson's Bay Company, in the autumn of 1861, and was probably then about six months old. It is, no doubt, less vigorous than the large wild animals of this species, who would, in all probability, bring down trees of much larger dimensions in a shorter time. In fact, it was evident that our Beaver was a novice in the undertaking, as he more than once slipped and rolled over on his back in his eagerness to accomplish the task. It was impossible to witness the actions of this animal without being struck by the amount of skill and intelligence exhibited. When the space cut through towards the centre was too narrow to admit its head, its teeth were applied above and below so as to increase the width from the outside towards the centre, until the remaining parts above and below formed two cones, the apices of which joined in the middle. Again and again the animal left off gnawing, and, standing upright on its hind legs, rested its front feet on the upper part of the tree, as if to feel whether it was on the move. This showed clearly that the creature knew exactly what it was about.

7. DESCRIPTIONS OF THIRTY-SIX NEW LAND SHELLS, FROM THE COLLECTION OF H. CUMING, ESQ. BY DR. L. PFEIFFER.

(Plate XXXVI.)

1. *HELIX DANÆ*, Pfr. (172 b). *T. angustissime umbilicata, sub-turbinata, solida, superne confertim arcuata, plicatula, striis spiralibus obsolete decussatula, cinnamomea; spira convexiusculo-turbinata, vertice minuto; anfr. 6½, convexiusculi, regulariter accrescentes, ultimus non descendens, medio subcurinatus, basi subtiliter striatus, pallidus; apertura obliqua, lunaris, intus submargaritacea; perist. simplex, rectum, margine columellari subarcuato-declivi, sensim ad insertionem subdilatato.*

Diam. maj. 32, min. 29, alt. 19 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

2. *HELIX MITIS*, Pfr. (447 a). *T. umbilicata, convexo-depressa, tenuiuscula, lævigata, diaphana, alabastrina; spira parum elevata, conoideo-convexa; sutura submarginata; anfr. 5, convexiusculi, sensim accrescentes, ultimus subdepresso-rotundatus; umbilicus angustissimus, vix pervius; apertura parum obliqua, lunaris, intus nitida; perist. simplex, rectum, marginibus vix convergentibus, columellari arcuato, superne subdilatato.*

Diam. maj. 16 $\frac{2}{3}$ , min. 15 $\frac{1}{3}$ , alt. 8 $\frac{1}{2}$  mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

3. *HELIX PLUTO*, Pfr. (595 b). *T. umbilicata, depressa, solidula, superne striis spiralibus et aliis antrorsum descendentibus minute sculpta, nitidula, fusco-nigricans, fasciis nonnullis pallidioribus notata; spira breviter conoideo-elevata, vertice obtusulo; anfr. 5½, convexiusculi, ultimus magnus, supra medium*



*distincte angulatus, subtus convexus, lutescens, circa umbilicum angustum striis spiralibus subundulatis sculptus; apertura obliqua, rotundato-lunaris, intus concolor, margaritacea; perist. simplex, rectum, marginibus convergentibus, columellari ad insertionem breviter fornicato-reflexo.*

Diam. maj. 61, min. 49, alt. 30 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

4. *HELIX BENIGNA*, Pfr. (701 a). (Pl. XXXVI. figs. 11, 12.)

*T. late umbilicata, lenticularis, pertenuis, rugoso-striata et striis spiralibus minutis confertissimis decussata, pellucida, pallide cinnamomea; spira parum elevata, vertice subtili; sutura marginata; anfr. 6, vix convexiusculi, lente accrescentes, summi liris nonnullis elevatis sculpti, ultimus acute carinatus, supra carinam leviter canaliculatus, basi convexior; apertura parum obliqua, subrhombea; perist. simplex, rectum, margine columellari ad insertionem vix dilatato.*

Diam. maj.  $32\frac{1}{2}$ , min. 29, alt. 11 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

5. *HELIX LIZARDENSIS*, Pfr. (729 a). *T. umbilicata, conoideo-*

*lenticularis, solida, carinata, conferte costulato-striata et lira filiformi juxta carinam posita instructa, cerea; spira conoideo-convexa; sutura carinato-exserta; anfr. 8, planiusculi, lentissime accrescentes, ultimus basi convexiusculus, ruditer striatus; umbilicus mediocris, profundus,  $\frac{1}{4}$  diametri vix æquans; apertura subverticalis, anguste angulato-lunaris; perist. simplex, rectum, margine basali leviter et regulariter arcuato.*

Diam. maj.  $7\frac{1}{2}$ , min.  $7\frac{1}{4}$ , alt. 3 mill.

*Hab.* Lizard Islands (*Macgillivray*).

Nearly allied to the Ceylonese *Helix clathratula*, Pfr. (*Puteolus clathratulus*, Bens.), but larger, more flattened; the umbilicus much smaller, the striæ less elevated, the peripheral keel sharper, and the second keel running closely approximate to it.

6. *HELIX ILLUSTRIS*, Pfr. (1313 b). (Pl. XXXVI. fig. 8.) *T.*

*imperforata, globoso-turbinata, solida, oblique et transverse irregulariter malleato-rugosa, nitidula, castanea; spira convexo-turbinata, vertice obtuso; anfr. 5, convexiusculi, regulariter accrescentes, ultimus utrinque convexior, medio obtuse angulatus, antice vix descendens; columella subverticalis, brevis, fornicato-dilatata, lilaceo-carnea; apertura obliqua, subtriangulari-lunaris, intus margaritacea; perist. expansum et reflexiusculum, lilaceo-carneum, marginibus callo nitido lilacino junctis.*

Diam. maj. 62, min. 52, alt. 35 mill.

*β. Fulvo-lutescens, fascia una mediana castanea ornata, perist. carneo-albido.*

Diam. maj. 63, min. 51, alt. 37 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).



7. *HELIX NOVOGUINEENSIS*, Pfr. (1322 a). *T. imperforata, globoso-turbinata, solida, sublævigata, nitida, pallide fulvida, fascia suturali alba, fasciis pluribus latis nigro-castaneis et area lata castanea ornata; spira fornicato-conoidea, vertice acuto; anfr. 5½, convexiusculi, ultimus antice vix descendens, substriatus, basi subangustatus; columella arcuata, dentiformi-truncata; apertura perobliqua, truncato-ovalis; perist. album, marginibus callo pellucido junctis, expansis et reflexis, supero subsinuoso, columellari supra regionem umbilicalem valde dilatato, adnato.*  
Diam. maj. 41, min. 34, alt. 26 mill.

β. *Paulo minor, unicolor alabastrina, fascia unica suturali cretacea.*

γ. *Minor (diam. maj. 34, min. 29, alt. 25 mill.), alba, fasciis nonnullis latis pluribusque angustis castaneis ornata.*

*Hab.* North of New Guinea (Wallace).

8. *HELIX BANNERI*, Macgill. (1335 a). *T. clause umbilicata, turbinato-globosa, tenuiuscula, oblique irregulariter striata et confertim pustulosa, fulva, fascia 1 lutescente prope suturam ornata; spira breviter turbinata, vertice acutiusculo; anfr. 4½, convexi, ultimus ventrosus, antice profunde descendens; columella leviter arcuata, sinuosa; apertura fere diagonalis, lunari-rotundata, intus submargaritacea; perist. tenue, breviter expansum, vix reflexum, marginibus convergentibus, callo tenui junctis, columellari perdilatato, fornicatim reflexo, adnato.*

Diam. maj. 41, min. 33, alt. 31 mill.

*Hab.* Cape Direction, N.E. Australia.

“*Helix*, n. sp., may be called *H. banneri*,<sup>9</sup> after Capt. Banner of the brig ‘Julia Percy,’ who picked up the only specimen met with during an inland expedition a few miles to the southward of Cape Direction. I was with him at the time, but we could find no more specimens.”—Macgillivray.

9. *HELIX ROSTRELLA*, Pfr. (1633 a). *T. umbilicata, globoso-trochiformis, tenuiuscula, irregulariter striatula, sericea, fulvo-cornea; spira conoidea, vertice acutiusculo; anfr. 5½, convexiusculi, ultimus antice leviter descendens, supra medium carinatus, basi convexior; umbilicus angustus, pervius; apertura fere diagonalis, intus submargaritacea; perist. album vel carneum, marginibus convergentibus, dextro expanso, supra carinam subsinuato, tum breviter rostrato, basali reflexiusculo, ad insertionem subdilatato.*

Diam. maj. 17, min. 15, alt. 10 mill.

β. *Corneo albida, fascia 1 castanea ad carinam notata.*

*Hab.* Lao Mountains, Camboja (Mouhot).

10. *HELIX MYSOLENSIS*, Pfr. (1651 a). *T. subobtecte umbilicata, trochiformis, solidula, leviter striatula, nitida, alabastrina, ad suturam fascia 1 cretacea et præterea 1-2 fuscis*

*notata*; spira convexo-conoidea, vertice acute mammillato; anfr.  $5\frac{1}{2}$ , convexiusculi, ultimus periphæria obsolete subangulatus, basi planiusculus, fuscus; columella obliqua, compressa, basi truncata; apertura perobliqua, subtrapezoidea; perist. album, margine supero expanso, ad dextram effuso, basali reflexo, columellari dilatato, supra rimam umbilicalem adnato.

Diam. maj.  $28\frac{1}{2}$ , min. 22, alt. 22 mill.

Hab. Island of Mysol (Wallace).

11. *HELIX AURORA*, Pfr. (1675 a). *T. umbilicata, turbinato-depressa, solidula, irregulariter striatula, parum nitens, unicolor fusca; spira breviter conoidea, vertice minuto, acutiusculo; anfr.  $4\frac{1}{2}$ , convexiusculi, regulariter accrescentes, ultimus periphæria carinatus, antice vix descendens, subtus parum convexus; apertura obliqua, lata, depresso lunaris, intus roseo-margaritacea; perist. pallide roseum vel lilaceo-carneum, marginibus convergentibus, supero horizontaliter abeunte, expanso, ad dextram subeffuso, basali vix arcuato, reflexo, columellari lamina fornicata dilatata umbilicum angustum fere occultante.*

Diam. maj. 30, min. 24, alt. 17 mill.

Hab. Isle of Waigiou (Wallace).

12. *HELIX DELICIOSA*, Pfr. (1676 a). (Pl. XXXVI. fig. 3.) *T. umbilicata, depresso turbinato-globosa, tenuiuscula, subdistanter plicatulo-striata, parum nitens, isabellina, lineis rufis eleganter circumdata; spira conoidea, acutiuscula; anfr. fere 6, convexiusculi, ultimus non descendens, supra medium filoso-angulatus et fascia latiore rufa cinctus, basi convexus; umbilicus angustus, pervius; apertura fere verticalis, rotundato-lunaris; perist. pallide roseum, expansum, marginibus vix convergentibus, dextro medio subangulatim producto, columellari dilatato, fornicato.*

Diam. maj. 26, min. 23, alt.  $15\frac{1}{2}$  mill.

Hab. Lao Mountains, Camboja (Mouhot).

13. *HELIX EXACTA*, Pfr. (1879 b). *T. umbilicata, depressa, solida, subrugoso-striata, fulva; spira plana, medio subimmersa; anfr.  $5\frac{1}{2}$ , vix convexiusculi, lente accrescentes, ultimus antice descendens, periphæria rotundatus, basi circa umbilicum angustum pervium subinflatus; apertura parum obliqua, anguste lunaris; perist. breviter expansum et incrassatum, marginibus remotis, dextro ab insertione breviter ascendente, columellari vix dilatato.*

Diam. maj. 30, min.  $26\frac{1}{2}$ , alt. 14 mill.

Hab. North of New Guinea (Wallace).

14. *HELIX MOLLISETA*, Pfr. (1885 a). *T. umbilicata, depressa, planorboidea, tenuiuscula, alba, lineis rufis variis cincta et epidermide fulva setis brevibus erectis mollibus dense obsita vestita; spira plana, medio immersa; anfr.  $5\frac{1}{2}$ , convexiusculi, ultimus permagnus, depresso-rotundatus, antice deflexus, subtus*

*circa umbilicum angustum infundibuli instar excavatus; apertura obliqua, lunaris, intus alba, subfasciata; perist. simplex, marginibus convergentibus, callo junctis, dextro ab insertione ascendente, regulariter arcuato, expanso, columellari flexuoso, anguste reflexo.*

Diam. maj. 30, min. 25, alt. 12 mill.

*Hab.* Island of Mysol (*Wallace*).

Nearly allied to *H. circumdata*, Fér., from which it differs in its size and epidermis, in its last whorl being less deflected, the umbilicus narrower, and the aperture more rounded.

15. *HELIX BIOMPHALA*, Pfr. (1888 a). *T. mediocriter umbilicata, depressa, solidula, striatula et lanugine brevi oblecta, fusca; spira profunde immersa; anfr. fere 5, turgidi, ultimi rapide accrescentes, ultimus inflatus, altus, antice sensim descendens, circa umbilicum non angulatus; apertura fere diagonalis, lunari-rotundata, intus margaritacea; perist. tenue, carneum, marginibus convergentibus, dextro ab insertione ascendente, subregulariter arcuato, anguste expanso, columellari subarcuato-declivi, anguste reflexo.*

Diam. maj. 20, min. 17, alt. 10–11 mill.

*Hab.* Island of Ceram (*Wallace*).

16. *HELIX LAOMONTANA*, Pfr. (1911 a). (Pl. XXXVI. figs. 9, 10.) *T. umbilicata, discoidea, solida, conferte capillaceo-striata, fusca; spira plana; anfr. 6½, vix convexiusculi, lente accrescentes, ultimus peripheria rotundatus, antice subdilatus, deflexus, subtus antice fortius striatus; umbilicus latissimus, pateriformis; apertura perobliqua, transverse truncato-oblonga, in imo fundo lamellis pluribus, per testam pellucidibus, munita; perist. albidum, incrassatum et reflexiusculum, marginibus callo crassiusculo rectilineari junctis.*

Diam. maj. 32, min. 27, alt. 8½ mill.

β. *Minor, anfr. 6, lamellis in anfr. ultimo nullis conspicuis. An spec. propria?*

Diam. maj. 21½, min. 18, alt. 6⅓ mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

17. *HELIX HORRIDA*, Pfr. (1912 a). (Pl. XXXVI. fig. 15.) *T. umbilicata, depressa, tenuiuscula, granulata setisque rigidis erectis obsita, corneo-fusca; spira immersa; sutura profunda; anfr. 4½, convexi, ultimus rotundatus, antice profunde descendens, fossa profunda ab apertura remotiuscula et 2 juxta peristoma notatus; umbilicus latiusculus, infundibuliformis; apertura subhorizontalis, bisinuato-pyriformis, intus dente profundo et ad marginem duobus validis (omnibus fossis externis respondentibus) instructa; perist. continuum, undique reflexum, marginibus dextro et basali flexuosis, parietali subelevato.*

Diam. maj. 18½, min. 14, alt. 7½ mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).



18. *HELIX EMMA*, Pfr. (1952 c). *T. umbilicata, depressa, tenuiuscula, conferte et irregulariter rugoso-striata, superne liris nonnullis obsoletis cincta, haud nitens, carneo et albido variegata; spira breviter conoidea, vertice acutiusculo; sutura linearis; anfr. 4, planiusculi, ultimus acute carinatus, antice vix descendens, basi convexus; umbilicus angustus, pervius; apertura perobliqua, rotundato-rhombea; perist. tenue, marginibus convergentibus, supero expanso, antrorsum arcuato, ad carinam subsinuato et leviter rostrato, basali reflexo, ad insertionem dilatato.*

Diam. maj. 18, min.  $14\frac{1}{2}$ , alt.  $7\frac{1}{2}$  mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

18\*. *STREPTAXIS MOUHOTI*, Pfr. (22 a). *T. pervie umbilicata, oblongo-ovata, tenuiuscula, confertim et oblique costulato-striata, alabastrina; spira elevata, apice obtuse conoideo; sutura impressa, submarginata; anfr.  $6\frac{1}{2}$ , convexiusculi, primi 4 regulares, ultimi deorsum deviantes, ultimus juxta aperturam planulatus, lævigatus; apertura obliqua, truncato-oblonga, lamina parietali mediocri, linguiformi coarctata; perist. callosum, reflexum, margine dextro superne leviter antrorsum arcuato, intus obsolete denticulato.*

Diam. maj. 13, min. 9, alt. 8 mill.

*Hab.* Siam.

19. *STREPTAXIS PELLUCENS*, Pfr. (Pl. XXXVI. fig. 6.) *T. umbilicata, oblongo-ovata, tenuis, superne arcuatim costulato-striata, nitida, hyalina; spira elevata, apice subacute conoideo; sutura impressa, submarginata; anfr.  $6\frac{1}{2}$ , convexiusculi, 4 primi regulares, ultimi deorsum leviter deviantes, ultimus omnino lævigatus, juxta aperturam subplanatus, antice leviter ascendens; umbilicus punctiformis, extus parum dilatatus; apertura parum obliqua, truncato-oblonga, lamella parietali libera, compressa, intrante coarctata; perist. subincrassatum, reflexiusculum, marginibus subparallelis, dextro ad insertionem tenui, tum leviter antrorsum dilatato.*

Diam. maj. 13, min. 8, alt.  $7\frac{1}{2}$  mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

20. *STREPTAXIS PORRECTA*, Pfr. (22 c). *T. umbilicata, oblique ovato-oblonga, tenuis, superne arcuato-plicatula, cereo-hyalina; spira excentrica, breviter conoidea; sutura impressa; anfr.  $6\frac{1}{2}$ , convexiusculi, primi 4 regulares, reliqui late deviantes, ultimus subascendens, ad suturam modo plicatulus; umbilicus mediocris, non pervius; apertura obliqua, truncato-oblonga, lamella parietali compressa, prope marginem dextrum intrante coarctata; perist. callosum, expansum et reflexum, margine dextro ad insertionem tenui, sinuato, tum subangulatim porrecto.*

Diam. maj. 10, min.  $7\frac{2}{3}$ , alt. 6 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).



21. *BULIMUS PHŒBUS*, Pfr. (78 a). *T. imperforata, ovato-fusiformis, tenuis, leviter striatula, parum nitens, pallide lutescens, strigis et maculis fuscis irregulariter picta; spira conica, acutiuscula; anfr. 5½, convexiusculi, ultimus non descendens, spiram paulo superans, ventrosior, medio obsoletissime subangulatus; columella compressa, leviter arcuata; apertura parum obliqua, angulato-elliptica; perist. roseum, marginibus callo fusculo junctis, dextro expanso, basali deorsum subproducto, columellari angusto.*

Long. 31, diam. 15 mill.

*Hab.* Ecuador.

22. *BULIMUS RÖMERI*, Pfr. (Pl. XXXVI. fig. 4.) *T. sinistrorsa, perforata, ovato-conica, solidula, leviter striata striisque confertissimis spiralibus sub lente decussatula, carnea, ad suturam pallide fasciata; spira conica, vertice acutiusculo; anfr. 6, vix convexiusculi, ultimus spiram subæquans, infra medium subangulatus et spadiceo bifasciatus, basi rotundatus; apertura obliqua, auriformis; perist. simplex, margine externo breviter expanso, columellari subverticali, sursum dilatato, fornicatim reflexo.*

Long. 23½, diam. 13½ mill.

*Hab.* Lao Mountains, Camboja (Mouhot).

This shell is very like *B. sinensis*, Bens., but differs from that by its more flattened whorls, the spiral striæ, the peristome not thickened, &c.

23. *BULIMUS PHRYNE*, Pfr. (839 b). *T. perforata, oblongo-fusiformis, tenuiuscula, plicato-striata, lutescens, strigis spadiceis albido conspersis picta; spira elongato-conica, vertice minuto; anfr. 6, convexiusculi, ultimus spira vix brevior, basi prope perforationem compressus; columella subangulatim arcuata; apertura parum obliqua, subrhombea, intus rosea, strigis perlucetibus; perist. simplex, rectum, margine columellari fornicatim reflexo.*

Long. 31, diam. 12 mill.

*Hab.* Andes of Peru.

24. *BULIMUS LURIDUS*, Pfr. (1014 a). *T. umbilicata, conico-ovata, solida, striatula, lurido-carnea; spira conica, apice acuto, submammillata; anfr. 6, convexiusculi, ultimus spiram paulo superans, basi rotundatus; apertura subverticalis, oblongo-ovalis; perist. rectum, margine dextro intus albide labiato, columellari dilatato, fornicato-patente.*

Long. 22, diam. 11 mill.

*Hab.* New Caledonia.

25. *BULIMUS SUBANGULATUS*, Pfr. (1043 a). *T. subperforata, ovato-conica, tenuissima, striatula, pellucida, fulvo-carnea; spira conica, vertice acutiusculo; anfr. 6, modice convexi, ultimus spiram paulo superans, medio subangulatus, basi rotun-*

*datum*; apertura obliqua, ovalis; perist. simplex, rectum, margine columellari sursum triangulatim dilatato, reflexo, subappresso.

Long.  $14\frac{1}{2}$ , diam. 8 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

26. CLAUSILIA MOUHOTI, Pfr. (Pl. XXXVI. fig. 5). *T. subrimata, fusiformis, solidula, plicis filaribus confertis et striis spiralibus arcte reticulata, sericina, pallide fulvida, maculis et strigis albis irregulariter picta; spira a medio regulariter attenuata, apice obtuso; sutura rufo obsolete marginata, fasciculis plicarum albarum subcrenata; anfr. 12, convexiusculi, summi unicolores pallidi, interdum truncati, ultimus angustior, rotundatus, breviter solutus, vix descendens; apertura fere verticalis, subangulato-piriformis; lamellæ triangulares, fere contiguæ; lunella filaris, elongata, parum arcuata; plica palatalis 1 supera, subcolumellaris juxta lamellam inferam emergens; perist. continuum, expansum et reflexiusculum, margine externo superne subsinuato.*

Long. (integr.) 42, diam. 9 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

27. CYCLOTUS GRANULATUS, Pfr. (14 a). *T. umbilicata, conoideo-depressa, solida, undique dense et subruditer granulata, opaca, albida, epidermide ad peripheriam latissime castaneo-fusciata vestita; spira parum elevata, vertice subtili; anfr.  $4\frac{1}{2}$ , convexi, celeriter accrescentes, ultimus rotundatus, circa umbilicum mediocrem non cristatus; apertura fere verticalis, subcircularis; perist. simplex, rectum, obtusum, continuum, anfractui contiguo breviter adnatum. Operc. planum, marginibus anfractuum haud prominulis.*

Diam. maj. 25, min. 20, alt. 14 mill.

*Hab.* Ecuador.

28. ALYCÆUS MOUHOTI, Pfr. (Pl. XXXVI. figs. 1, 2.) *T. anguste umbilicata, subpyramidalis, solidula, opaca, densissime capillaceo-striata, carneo-albida; spiraturbinata, apice obtusulo, lutescens; sutura profunda; anfr.  $1\frac{1}{2}$ , convexi, ultimus irregulariter inflatus, saccatus, 3 mill. pone aperturam subito constrictus, a strictura canalem longum, in sutura retrocedentem emittens, tum sensim dilatatus et costulis nonnullis distantibus munitus; apertura obliqua, subcircularis; perist. duplicatum, internum continuum, breviter adnatum, externum fornicato-reflexum, latere sinistro subangulatim dilatatum.*

Diam. maj.  $7\frac{2}{3}$ , min.  $6\frac{1}{3}$ , alt.  $5\frac{1}{4}$  mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

29. ALYCÆUS (sect. DIORYX, Bens.) BACCA, Pfr. (4 a). *T. breviter rimata, globoso-turbinata, sublævigata, parum nitida, cereo-albida; spira regulariter turbinata, apice acutiusculo,*

*cornea; sutura profunda; anfr. vix ultra 4, convexi, ultimus levissime capillaceo-striatus, perinflatus, ad aperturam valde constrictus, e strictura canalem mediocrem, in sutura retrocedentem emittens; apertura verticalis, spira brevior, circularis; perist. album, continuum, breviter adnatum, anguste expansum, margine dextro subduplicatum. Operc. planum, multispirum, fulvum, nucleo rubro.*

Diam. maj. 7, min.  $6\frac{1}{4}$ , alt.  $7\frac{1}{2}$  mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

02, 1957 30. *HYBOCYSTIS MOUHOTI*, Pfr. (Pl. XXXVI. fig. 13.) *T. subumbilicata, compresse pupæformis, solida, striatula, saturate fusco-violacea; spira irregulariter oblonga; anfr. 6, primi 4 convexiusculi, conum subregularem formantes, penultimus multo longior, ultimus latere aperturæ complanatus, tum profunde descendens, foveolato-malleatus, antice arcuatim ascendens; apertura obliqua (basi axin excedens), angulato-ovalis, intus purpurascens-fusca; perist. rufo-aurantiacum, incrassatum, duplicatum et reflexum, margine parietali subhorizontali, dextro ad angulum insertionis sursum producto. Operc. testaceum, pagina interiore castaneo callosa.*

Long. 35, diam. 17 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

31. *CYCLOPHORUS LAOMONTANUS*, Pfr. (16 a). *T. mediocriter umbilicata, depresso-turbinata, solidula, subtiliter striata, nitidula, fulva, strigis fulguratis pallide rufis ornata, vel in fundo pallido maculis et tæniis castaneis dense variegata; spira turbinata, vertice acuto, nigricante; anfr. 5, convexi, ultimus teres; apertura parum obliqua, subcircularis, superne obsolete subangulata; perist. continuum, breviter adnatum, cæterum æqualiter et anguste expansiusculum. Operc. ?*

Diam. maj. 13, min. 11, alt. 9 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

This shell resembles *C. cæloconus*, Bens., but differs from it by its more elevated spire, narrower umbilicus, and slightly expanded peristome.

32. *CYCLOPHORUS HÆMATOMMA*, Pfr. (1076). *T. umbilicata, conoideo-depressa, solida, confertissime striata et superne liris elevatis inæqualibus crebris cincta, alabastrina; spira parum elevata, sursum fulvo-sanguinea, vertice subtili; anfr. 5, modice convexi, ultimus subteres, subtus lævigatus, crista funiformi, umbilicium latiusculum limitante, munitus; apertura obliqua, irregulariter rotundato-ovalis; perist. simplex, rectum, marginibus approximatis, callo brevi junctis, sinistro levius curvato, ad cristam umbilicalem sinuato.*

Diam. maj. 23, min. 19, alt. 12 mill.

*Hab.* Ecuador.



33. *CHONDROPOMA* (?) *SOLARE*, Pfr. (53 a). *T. clause umbilicata, oblongo-turrita, solida, liris filaribus albidis (interjectis minoribus) et costulis longitudinalibus confertissimis illas transgredientibus asperata, haud nitens, cinnamomea; spira subregulariter attenuata, truncata; sutura irregulariter subcrenulata; anfr. superst. 4½, modice convexi, ultimus non solutus; apertura verticalis, angulato-ovalis; perist. duplex, internum expansiusculum, adnatum, externum late expansum et radiato-plicatum, infra umbilicum subito resectum eumque lamina adnata claudens. Operc.?*

Long. 22, diam. 11 mill.

Locality unknown.

This very elegant shell presents the most intimate affinity to the Cuban *Chondropomata shuttleworthi, pudicum*, &c.; and I have no doubt that it belongs to the same genus.

34. *TROCHATELLA MOUHOTI*, Pfr. (22 a) (Pl. XXXVI. fig. 14). *T. trochiformis, solidula, peroblique rugoso-striata, alato-carinata, lutescens; spira conoidea, vertice minuto, laevigato, subpapillari; anfr. 6, plani, subundulati, omnes in alam undulata, in superioribus subappressam, in ultimo liberam, deflexam dilatati, ultimus basi convexiusculus, minutissime spiraliter striatus; apertura perobliqua, lanceolata; perist. albidum, marginibus callo tenui nitido junctis, supero tenui, subrecto, basali arcuato, calloso, breviter reflexo, ad columellam brevissimam nodulifero.* 727 1953

Diam. maj. 17, min. 14, alt. 8 mill.

*Hab.* Lao Mountains, Camboja (*Mouhot*).

35. *HELICINA YORKENSIS*, Pfr. (93 a). *T. globoso-conica, solidula, subconferte spiraliter striata, carnea, fascia suturali flava et latiore fusco-violacea ornata; spira regulariter conoidea, vertice acutiusculo; anfr. fere 5, planulati, ultimus spiram paulo superans, periphæria rotundatus, subtus medio callo albo, granulato, circumscripto munitus; columella callosa, arcuata; apertura parum obliqua, subsemicircularis; perist. breviter expansum, margine basali arcuatim cum columella juncto. Operc. albidum.*

Diam. maj. 5⅔, min. 5, alt. 4½ mill.

*Hab.* Cape York, North-east Coast of Australia (*Macgillivray*).

36. *HELICINA RETICULATA*, Pfr. (150 a). *T. trochiformis, solidula, liris confertis spiralibus strisque incrementi distinctis reticulata, carnea, maculis fulvo-roseis irregulariter picta; spira regulariter conoidea, vertice submammillari; anfr. 4½, planiusculi, ultimus periphæria subangulatus, basi callo parvulo, granulato, linea impressa circumscripto munitus; columella brevis, simplex; apertura parum obliqua, subtriangularis;*



*perist. breviter expansum, margine basali cum columella angulum formante. Operc. castaneum, nucleo pallido.*

Diam. maj.  $6\frac{2}{3}$ , min. 6, alt.  $4\frac{2}{3}$  mill.

*Hab.* Cape Flattery, North-east Coast of Australia (*Macgillivray*).

#### EXPLANATION OF PLATE XXXVI.

Figs. 1, 2. *Alycæus mouhoti*, p. 275.

3. *Helix deliciosa*, p. 271.

4. *Bulinus röméri*, p. 274.

5. *Clausilia mouhoti*, p. 273.

6. *Streptaxis pellucens*, p. 273.

7. *Pupina mouhoti*\*.

Fig. 8. *Helix illustris*, p. 269.

9, 10. *Helix laomontana*, p. 272.

11, 12. *Helix benigna*, p. 269.

13. *Hybocystis mouhoti*, p. 276.

14. *Trochatella mouhoti*, p. 277.

15. *Helix horrida*, p. 272.

### 8. DESCRIPTION OF NEW SPECIES OF MARINE SHELLS FROM THE PACIFIC ISLANDS. BY W. HARPER PEASE.

#### CYPRÆA GRANULATA.

*T. ovata aut obeso-ovata, subgibbosa, subtenui, extremitatibus vix productis; dorso granuloso aut noduloso, nodulis lateralibus liris coadunatis, sulco dorsali vix impresso; lateribus submarginatis; basi convexa, lirata, liris remotis, per basem partim extensis, interdum liris intermediis; apertura angusta, antice latiore, lactea aut pallide rufescenti-fusca, nodulis albidis, rufescenti-fusco annulatis, liris rufescenti-fuscis; basi alba, liris basalibus rufo-fuscente marginatis, extremitatibus rufescenti-fuscis tinctis.*

Shell rather light, ovate, or obesely ovate, somewhat gibbous; extremities slightly produced; back granulose or nodulous; nodules irregular in size, those near the margins connected by ridges; the ridges terminating at the margins, and seldom reaching the dorsal region, impressed by a slight dorsal groove, which is sometimes obsolete; sides slightly margined; base convex, ridged; ridges remote, especially those on the columella not extending to the margin, and those on the columella not reaching the inner edge, with the exception of a few of the anterior ones; occasionally a few short intermediate ridges; aperture narrow, slightly the wider anteriorly; cream-colour or light reddish-brown; nodules whitish, sometimes encircled by reddish-brown rings; ridges of the same colour; base white; basal ridges edged with reddish brown, and extremities stained with the same colour.

Length 32, breadth 20 mill.

From an examination of living specimens of the above species, from several parts of the Pacific, we are satisfied it is quite distinct from the *C. nucleus* or *C. madagascarensis*, with which it has been heretofore confounded. It differs from both of the above species in being lighter, and in the basal ridges being less in number and not extending to the margin, or becoming nearly obsolete as they approach

\* The description of *Pupina mouhoti* will be given in a subsequent paper.