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A paper was also read containing "Descriptions of thirty-six new species of *Helix*, belonging to the collection of H. Cuming, Esq.," by Dr. L. Pfeiffer:—

1. *HELIX INCEI*, Pfr. *Hel. testá umbilicatá, depresso-globosá, solidulá, striatá, sub epidermide pallidè fulvá albá, fasciis angustis castaneis cingulatá; spirá elevatá, acutiusculá; anfractibus 7 vix convexiusculis, ultimo circa umbilicum mediocrem, pervium sub-compresso; columellá arcuatá; aperturá perobliquá, lunato-ovali; peristomate albo, tenui, intus sublabiato, margine dextro vix expanso, basali reflexo, columellari in laminam triangularem dilatatá, umbilicum semitegente.*

Diam. 38, alt. 28 mill.

- β . *Minor, epidermide castanea, fasciis indistinctis, anfractu ultimo basi flavo.*

Diam. 32, alt. 21 mill.

From North Australia, collected by Lieut. Ince, R.N.

2. *HELIX JONASI*, Pfr. *Hel. testá imperforatá, globoso-conoideá, solidiusculá, lævigatá, non nitens, pallidè virescens; spirá obtusè conicá; anfractibus 5 convexiusculis, ultimo basi subplanato; columellá albá, obliquá; aperturá lunari; peristomate breviter incrassato, margine columellari subdilato, adpresso.*

Diam. 28, alt. 24 mill.

- β . *Tenuior, apice rubicundo, anfractu ultimo basi nigricante, fascia angusta, nigra ad suturam: H. dimera, Jonas.*

From the Philippine Islands, Mindoro.

3. *HELIX BUSCHI*, Pfr. *Hel. testá imperforatá, conico-globosá, solidiusculá, tenuiter striatá, parùm nitidulá, citriná; spirá conoideá, obtusiusculá; anfractibus 5½ convexiusculis, ultimo rotundato; columellá subobliquá, strictá, dilatá, albo-callosá; aperturá rotundato-lunari, intus nitidá, concolore; peristomate tenui, albo, breviter expanso, margine basali cum columellari angulum formante.*

Diam. 23, alt. 23 mill.

From the island of Mindoro.

4. *HELIX PELODES*, Pfr. *Hel. testá umbilicatá, subglobosá, tenuiusculá, striatá et minutè granulatá, rubello-fuscá; spirá brevi, obtusiusculá; anfractibus 6 convexiusculis, ultimo inflato, anticè breviter descendente; umbilico mediocri, pervio; aperturá lunato-orbiculari, intus margaritaceá; peristomate expanso, saturatè carneo, margine columellari perdilatato, fornicatim reflexo.*

Diam. 31, alt. 20 mill.

From the north coast of Australia: found under decayed leaves (Lieut. Ince, R.N.).

5. *HELIX HARTWEGI*, Pfr. *Hel. testá umbilicatá, depressá, carinatá, solidulá, striatulá, fuscá; spirá vix elevatá; anfractibus 5 planulatis, ultimo basi paulò convexiore, anticè non descendente; umbilico angusto, pervio; aperturá perobliquá, irregulariter subquadratá; peristomate albo, incrassato, breviter reflexo, margini-*

bus callo junctis, dextro sinuoso, basali subrecto, dilatato, introrsum calloso, dente unico interposito.

Diam. 23, alt. 12 mill.

From El Catamajaja, near Loxa, republic of the Equator (Hartweg).

6. *HELIX LEPTOGRAMMA*, Pfr. *Hel. testá umbilicatá, globosá, tenui, striatá, lineis impressis, concentricis, confertis, sculptá, carneo-albidá, supernè fasciis 3-4 angustis, rufis ornatá; anfractibus 4½ convexiusculis, ultimo inflato, anticè breviter descendente; aperturá vix obliquá, rotundato-lunari, intus concolore; peristomate albo, simplice, breviter expanso, marginibus callo tenuissimo diffuso junctis, columellari valdè dilatato, albo, nitido, reflexo, umbilicium angustum semioccultante.*

Diam. 17, alt. 13 mill.

From Cygnet Bay, North Australia (Lieut. Ince, R.N.).

7. *HELIX GILBERTI*, Pfr. *Hcl. testá umbilicatá, depressá, distinctè striatá, minutissimè granulatá, tenui, pallidè corneá, lineá rufá ad suturam cinctá; anfractibus 4½ convexiusculis, ultimo basi convexo; umbilico mediocri, pervio; aperturá rotundato-lunari; peristomate simplice, recto, margine columellari parùm dilatato, reflexo.*

Diam. 16, alt. 9 mill.

From Darling Downs, East Australia (Gilbert).

8. *HELIX ZONITES*, Pfr. *Hel. testá umbilicatá, depressá, tenui, diaphand, confertim costulato-striatá, lutescenti-corneá; spirá vix elatá; anfractibus 6 convexiusculis, regulariter accrescentibus, ultimo supra medium lined rufá, ad apicem usque conspicuè ornato, basi læviore, subplanulato; umbilico mediocri, pervio; aperturá depressá, obliquè lunato-ovali; intus margaritaceá; peristomate simplice, recto, margine columellari breviter patente.*

Diam. 25, alt. 12½ mill.

Hab. Unknown.

9. *HELIX GRIFFITHI*, Pfr. *Hel. testá umbilicatá, globoso-depressá, solidiusculá, lævigatá, supernè leviter striatulá, corneo-lutescente; spirá breviter elevatá, conoidé; anfractibus 6 convexiusculis, ultimo ad suturam castaneo-marginato, ventroso; umbilico mediocri, pervio; aperturá vix obliquá, amplá, rotundato-lunari, intus margaritaceá; peristomate simplice, acuto, marginibus callo tenuissimo junctis, columellari breviter patente.*

Diam. 26, alt. 14 mill.

Locality unknown.

10. *HELIX KOCHI*, Pfr. *Hel. testá umbilicatá, globoso-depressá, solidulá, obliquè distinctè striatá, albidá, fasciis pluribus rufis ad peripheriam ornatá; spirá parùm elevatá, obtusiusculá; anfractibus 6 convexis, sensim accrescentibus, ultimo subcylindrico; umbilico magno, pervio; aperturá lunato-orbiculari, intus concolore, nitidá; peristomate simplice, acuto, marginibus conniventibus dextro antrorsum arcuato, columellari dilatato, patente.*

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Diam. 30, alt. 16 mill.
Locality unknown.

11. *HELIX VARIOLOSA*, Pfr. *Hel. testá perforatá, depressá, acutè carinatá, solidulá, opacá, lutescente, supernè confertissimè plicatá, lineisque concentricis irregulariter decussatá, pustulis albis subfasciatim obsitá; spirá planiusculá; anfractibus 3½ vix convexiusculis, rapidè crescentibus, ultimo basi convexo, infra carinam compresso; columellá brevi, verticali; aperturá latè securiformi; peristomate simplice, acuto, margine columellari breviter reflexo.*

Diam. 23, alt. 10 mill.
Locality unknown.

12. *HELIX INDUTA*, Pfr. *Hcl. testá perforatá, lenticulari, acutè carinatá, solidá, supernè confertim plicato-striatá, lineis confertis concentricis decussatá, subtùs striatá, spadiced, basi pallescente, circa perforationem castaneo-areolatá, epidermide tenuissimá corneo-grisèá undique indutá; anfractibus 5 planis, sensim accrescentibus; aperturá subrhombèd; peristomate simplice, margine columellari vix reflexiusculo.*

Diam. 21, alt. 11 mill.
Locality unknown.

13. *HELIX BILINEATA*, Pfr. *Hel. testá umbilicatá, depressá, tenui, nitidá, pellucidá, lævigatá, lutescenti-cornèd; spirá planiusculá; suturá striolatá; anfractibus 5 vix convexiusculis, regulariter crescentibus, ultimo subdepresso, lineis 2 castaneis, alterá supra peripheriam, alterá suturali ad apicem usque conspicuá ornato; umbilico angusto; aperturá obliquè lunari; peristomate simplice, acuto, margine columellari brevissimè reflexo.*

Diam. 15, alt. 7 mill.
Locality unknown.

14. *HELIX BELCHERI*, Pfr. *Hel. testá latè umbilicatá, depressá, tenui, diaphaná, supernè confertim costulato-striatá, subtùs sublævigatá, nitidá, concolore corneo-cercá; spirá vix convexá; anfractibus 5 vix convexiusculis, ultimo busi subplanulato; aperturá obliquá, lunato-ovali; peristomate simplice.*

Diam. $8\frac{1}{3}$, alt. 4 mill.

Locality unknown. Brought by the 'Sulphur,' Capt. Belcher.

15. *HELIX CERATODES*, Pfr. *Hel. testá subperforatá, globoso-depressá, tenui, minutè striatá, nitidulá, pellucidá, cornèd; spirá parùm elevatá; anfractibus 5 subplanulatis, celeriter crescentibus, ultimo subdepresso; aperturá amplá, obliquè lunari; peristomate simplice, acuto, margine columellari breviter reflexiusculo, perforationem ferè occultante.*

Diam. $16\frac{1}{2}$, alt. 9 mill.

Collected on the islands of Luzon and Mindoro, by H. Cuming, Esq.

16. *HELIX SPLENDIDULA*, Pfr. *Hel. testá latè umbilicatá, depres-*

sissimâ, pallidè olivaceo-corned, nitidâ, striatâ, lineis concentricis, magis minusve distinctis obsolete reticulatâ; spirâ planâ; suturâ profundâ; anfractibus 3½ subplanulatis, celeriter crescentibus, ultimo lato; umbilico lato, perspectivo; aperturâ obliquâ, lunato-ovali; peristomate simplice, acuto, marginibus conniventibus, dextro obliquè descendente, antrorsum subarcuato.

Diam. $8\frac{1}{2}$, alt. $3\frac{1}{3}$ mill.

Hab. East Australia, near Torres Strait (Lieut. Ince, R.N.).

17. *HELIX PAPPILLATA*, Pfr. *Hel. testâ umbilicatâ, depressâ, subdiscoideâ, solidiusculâ, irregulariter striatâ, opacâ, albidâ, spadiceo nebulosâ, saturatiusque strigatâ et maculatâ; spirâ planâ, apice papillatim prominente; anfractibus 5 planiusculis, ultimo descendente, depresso-rotundato; umbilico angusto, pervio; aperturâ obliquâ, lunato-orbiculari; peristomate simplice, acuto, margine columellari vix dilatato.*

Diam. 23, alt. 11 mill.

Locality unknown.

18. *HELIX SPIRULATA*, Pfr. *Hel. testâ imperforatâ, depressâ, lenticulari, subtilissimè striatâ, lineis elevatis concentricis utrinque notatâ, tenui, fulvâ, carinatâ; carinâ compressâ, subæsertâ; spirâ parùm elevatâ; anfractibus 5 lentè crescentibus, supra carinam convexiusculis, ultimo basi vix convexo, medio impresso; aperturâ depressâ, subrhomboidè; peristomate simplice, acuto.*

Diam. 9, alt. 4 mill.

Hab. Real Llejos, Central America; found on trunks of trees (Cuming).

19. *HELIX INSCULPTA*, Pfr. *Hel. testâ imperforatâ, depressâ, utrinque convexiusculâ, acutè carinatâ, solidulâ, castaneâ, supernè costulis confertis et lineâ spirali, carinâ parallelâ, insculptâ; anfractibus 5 planulatis, ultimo basi levigato, juxta carinam lineâ impressâ notato; columellâ dente unico brevi, acuto, albo nunitâ; aperturâ depressâ, securiformi; peristomate simplice.*

Diam. 8, alt. 4 mill.

Locality unknown.

20. *HELIX SINAITENSIS*, Pfr. *Hel. testâ umbilicatâ, orbiculato-convexâ, tenui, confertim striatâ, corned; spirâ convexâ, obtusâ; anfractibus 7 angustis, vix convexiusculis, carinâ filiformi cinctis, ultimo basi convexiore; umbilico lato, perspectivo; aperturâ rotundato-lunari; peristomate simplice, margine supero brevi, recto, basali valdè arcuato, breviter reflexo.*

Diam. 10, alt. 4 mill.

From Sinai, province of North Ilocos, isle of Luzon (Cuming).

21. *HELIX ANDICOLA*, Pfr. *Hel. testâ umbilicatâ, depressâ, tenui, undique granulatâ, opacâ, corneo-albidâ, fasciis pluribus rufis interruptis, denticulatis vel maculoso-tessellatis taniatâ, interstitiis rufo-flammulatis; spirâ planâ; anfractibus 4 convexis, ultimo dilatato, rotundato; aperturâ rotundato-lunari; peristomate tenui,*

marginibus callo tenui junctis, supero breviter expanso, basali reflexiusculo, columellari dilatato, reflexo, umbilicum angustum semitegente.

Diam. 20, alt. 11 mill.

From the Eastern Cordilleras.

22. *HELIX HIANIS*, Pfr. *Hel. testá subobtectè perforatá, depressá, tenui, pellucidá, nitidiusculá, undique regulariter et confertim granulatá, pallidè corneá, strigis angustis, rufis, approximatis, undulatis, interdum ramosis, et ad suturam fasciá pallidá, maculis irregularibus rufis tessellatá ornatá; spirá pland; anfractibus $4\frac{1}{2}$ convexis, ultimo inflato, subcompresso, anticè vix descendente; aperturá subobliquá, amplá, lunato-rotundatá, intus concolore; peristomate tenui, expanso, marginibus distantibus, supero expanso, basali breviter reflexo, columellari membranaceo-dilatato, fornicatim reflexo, perforationem tegente.*

Diam. 25, alt. 12 mill.

Locality unknown.

23. *HELIX RECTANGULA*, Pfr. *Hel. testá imperforatá, orbiculato-conicá, solidá, striatulá, griseo-stramineá, ured basali, lineá suturali et fasciis latis castaneis ornatá; spirá elevatá, obtusá; anfractibus $6-6\frac{1}{2}$ convexiusculis, ultimo subrectangulè carinato, basi planiusculo, medio subexcavato; aperturá depressá, subtrapeziá, margine columellari incrassato, calloso-subunidentato.*

Diam. 13, alt. 10 mill.

From the Marquesas islands (M. Rohr).

24. *HELIX NYSTIANA*, Pfr. *Hel. testá latè umbilicatá, depressá, subdiscoideá, tenui, sub lente minutissimè granulato-striatá, haud nitente, pallidè corneá, fasciis angustis, rufis 3-4 circumdatá; spirá vix elevatá; unfractibus 4 convexis, ultimo anticè subdeflexo, basi vix latiore; umbilico lutissimo; aperturá perobliquá, suborbiculari; peristomate simplice, marginibus ferè contiguís, supero recto, basali breviter reflexo.*

Diam. 11, alt. 4 mill.

From Real Llejós, Central America (Cuming).

25. *HELIX NILAGIRICA*, Pfr. *Hel. testá latè umbilicatá, depressá, discoideá, striatá, corneo-albidá, lineá unicá rufá supra peripheriam cinctá; spirá planiusculá; anfractibus 5 convexiusculis, lentè accrescentibus, ultimo anticè abruptè deflexo; umbilico latissimo, anfractum penultimum latè monstrante, medio ingusto, pervio; aperturá parvâ, horizontali, rotundato-ovali; peristomate albo, sublabiato, reflexo, marginibus contiguís.*

Diam. $14\frac{1}{2}$, alt. $5\frac{1}{2}$ mill.

From the Neelgherries, East Indies.

26. *HELIX TUMIDA*, Pfr. *Hel. testá imperforatá, globosá, solidá, rugoso-striatá, nitidiusculá, sub epidermide sordidè viridí, saturatius radiatá albá; spirá parvulá, elevatá; unfractibus 5 tumidís, ultimo permagno; columellá subverticali, elongatá, basi subtortá,*

albo-callosá; aperturá amplá, lunato-rotundatá, intus cærulescente; peristomate simplice, recto, margine dextro arcuato, basali cum columellá angulum formante.

Diam. 27, alt. 21 mill.

Locality unknown.

27. *HELIX CAUCASICA*, Pfr. *Hel. testá umbilicatá, globoso-depressá, tenui, subtiliter rugoso-striatá, sub lente granulatá, corneo-albidá, pellucidá, fasciá latá, subopacá ad suturam, angustiore albá ad peripheriam ornata; anfractibus 6 convexiusculis, ultimo anticè subdeflexo; aperturá lunato-rotundatá; peristomate acuto, expanso, intus callo albo, acuto labiato, margine columellari dilatato, umbilicum angustum, pervium semitegente.*

Diam. 16, alt. 10 mill.

From the Caucasus.

28. *HELIX KNYSNAENSIS*, Pfr. *Hel. testá umbilicatá, globosá, solidiusculá, costulato-striatá, sericiná, corneo-olivaceá; spirá brevi, obtusá; anfractibus 4 convexiusculis, ultimo inflato, basi sublevigato, nitidissimo; umbilico angusto, pervio; aperturá rotundato-lunari, intus margaritaceá; peristomate simplice, acuto, margine columellari supernè dilatato, patente.*

Diam. 24, alt. 16 mill.

From Knysna, Cape of Good Hope.

29. *HELIX JENYNSI*, Pfr. *Hel. testá subperforatá, turbiniformi, striatulá, tenui, nitidá, carinatá, lacteá, supra carinam fusco-unifasciatá; spirá brevi, conicá, acutá; anfractibus 5½ vix convexiusculis, ultimo basi convexiore; aperturá angulato-lunari; peristomate simplice, acuto, margine columellari supernè reflexiusculo, perforationem ferè claudente.*

Diam. 12, alt. 7½ mill.

Locality unknown.

30. *HELIX BRONNI*, Pfr. *Hel. testá imperforatá, semiglobosá, striatulá, sub lente punctatá, nitidulá, castaneá, apice obtuso pallidá; anfractibus 5 convexiusculis, ultimo obsolete carinato, basi planiusculo, granulato, cærulescenti-albido, infra carinam fascia 1 castaneá ornato, anticè deflexo, profundè scrobiculato; aperturá subhorizontali, elliptico-oblongá; peristomate latè incrassato, marginibus callo tenui junctis, basali dilatato, reflexo, fusco-maculato, intus 4 dentato; dentibus 2 anticis majoribus, compressis, à margine remotis.*

Diam. 25, alt. 15 mill.

From Jamaica; sent by Mr. Adams with *H. sinuata*, Born, to which it is nearly allied.

31. *HELIX VENTROSULA*, Pfr. *Hel. testá rimato-perforatá, depresso-globosá, tenui, subtiliter striatá, pellucidá, corneo-albidá; spirá vix elevatá; anfractibus 5½ vix convexiusculis, ultimo subitè deflexo, supernè subangulato, basi inflato, anticè gibbo et valdè constricto; aperturá perobliquá, ringente; peristomate acuto, latè*

reflexo, marginibus vix conniventibus, laminae elevatas, in ventre anfractus penultimi angulatim junctas emittentibus, dextro laminae subperpendiculari dilatata, basali dentibus 2 acutis munito.

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

From Mexico (Hinds), and Texas (Sowerby).

32. *HELIX HINDSI*, Pfr. *Hel. testá umbilicatá, depressá, subtiliter striatá, corneo-lutescente, diaphaná, nitidá; spirá parùm elevatá; anfractibus 5 planiusculis, ultimo basi convexiore, anticè supernè deflexo, subtùs constricto; umbilico angusto, pervio; aperturá perobliquá, lunari, ringente; peristomate breviter reflexo, marginibus conniventibus, callo triangulari, dentiformi, bicurvé junctis, dextro lamellá subverticali, basali dentibus 2 acutis munito.*

Diam. 8, alt. $4\frac{1}{2}$ mill.

From Mexico (Hinds), and Texas (Sowerby).

33. *HELIX HEDENBORGI*, Pfr. *Hel. testá subperforatá, depressissimá, subdiscoideá, acutè carinatá, tenuiusculá, confertim rugoso-striatá, supernè albido et fusco-variegatá, basi subunicolore fuscescente; spirá vix elevatá; anfractibus $5\frac{1}{2}$ planis, non exertis, ultimo basi vix ventrosiore, anticè non descendente; aperturá depressá, angulato-lunari; peristomate tenui, marginibus subparallelis, supero recto, basali breviter reflexo, columellari vix dilatato, reflexo, adpresso.*

Diam. 18, alt. 6 mill.

On cliffs at the river Baher el Killo, at the Road of Marc Aurel, Egypt (Dr. Hedenborg).

34. *HELIX PLATYODON*, Pfr. *Hel. testá imperforatá, depressoturbinatá, minutissimè granulato-striatá, albá, fasciis fuscis, albuguttatis ornatá; spirá elevatá, obtusiusculá; anfractibus 6 vix convexiusculis, ultimo basi subplanulato, anticè deflexo; aperturá perobliquá, lunato-ovali, intus albá; peristomate latè expanso, reflexo, marginibus callo albo junctis, columellari per dilatato, adpresso, dente lato compresso munito.*

Diam. 30, alt. 19 mill.

Locality unknown.

35. *HELIX RETUSA*, Pfr. *Hel. testá imperforatá, subglobosá, apice retuso, tenui, levigato, basi concentricè striolatá, castaneo-fulvá, albo latè strigatá et flammulatá, epidermide hydrophaná, albidá, deciduá partim indutá, sursùm pallescente, castaneo-fasciatá; spirá brevi; anfractibus 4 convexiusculis, ultimo subangulato, vix descendente; columellá intrante, albá, supernè dentato-dilatata; aperturá rotundato-lunari, intus margaritacé; peristomate latè expanso.*

Diam. 28, alt. 20 mill.

From the island of Samar; found on leaves of trees (H. Cuming).

36. *HELIX PRATENSIS*, Pfr. *Hel. testá umbilicatá, orbiculato-convexá, ruguloso-striatá, albidá, fasciis 2 castaneis cinctá vel subunicolore; spirá subelevatá; anfractibus 6 convexiusculis, ultimo*

anticè vix descendente ; umbilico mediocri, pervio ; aperturâ rotundato-lunari ; peristomate expanso, intus remotè albo-labiato, murginibus conniventibus, columellari subdilatato, patente.

Diam. 17, alt. $9\frac{1}{2}$ mill.

From the banks of the river Tortoom (As. Russ.) ; found in damp meadows.

“ On the Growth and Re-calcification of the Shell in *Cypræa*, a genus of Pectinibranchiate Mollusca ” :—

The *Cypræa* is a mollusk of very peculiar character : first, on account of the different phases presented by its shell at different periods of growth ; and, secondly, on account of the curious property which the animal possesses of dissolving and renewing its shell. The original growth of the Cowry is, undoubtedly, a process of time ; but the re-calcification of a shell at maturer age appears to be the work of a few days only.

The first stage of advancement produces a simple convolution of shell around a columella axis in the form of a long drawn-out Bulla, the columella being smooth, the outer lip thin, and the colour usually diffused in bands of waves. In the second epoch of growth the shell solidifies, the lip and columella begin to thicken, and present gradual indications of teeth, the teeth become more and more perfectly developed, and the dorsal surface is overlaid with a strong coat of livid colouring matter also diffused in obscure bands or waves. The calcifying energies of the mantle, which, extending in two unequal lobes, one from either side of the shell's aperture, have been chiefly exercised during the second epoch of growth upon the dorsal surface, are now more particularly directed to the base and sides. The teeth are strengthened, the sides become thickened with a rich coating of enamel, and the growth of the shell is completed by a light fabric of colouring matter deposited in lines, blotches, waves, or reticulations, of various hues and patterns.

The re-calcification of a shell at maturer age has been a subject of some difference of opinion amongst naturalists. Bruguière first introduced the fact, and Lamarck says, “ I possess observations which tend to prove that the Cowry, arrived at the power of forming a complete shell, has still the faculty of enlarging its habitation, and is then obliged to quit the shell in order to form a new one. It results from this that the same individual has the power of forming a successive number of shells during both the second and third stages of growth, and which accounts for our often meeting with so many different sizes of the same species ” !

M. Deshayes, after furnishing us with an excellent account of the zoological characters of *Cypræa*, derived mainly from the observations of MM. Quoy and Gaimard, argues against the possibility of any remodelling of the shell taking place, and regards the statement of Lamarck as a theory opposed to the common laws of organization. To the supposition of Bruguière that the Cowries cast their shells after the manner of Crabs, M. Deshayes very properly replies that there can be no analogy between them. The new shell of the