

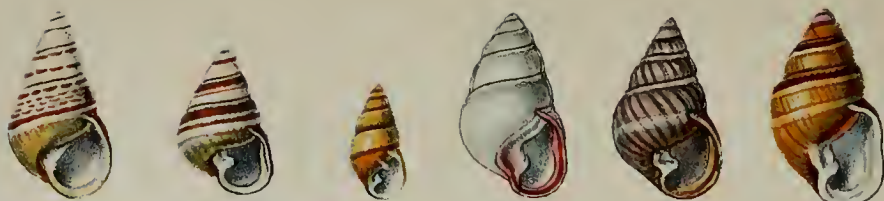
PROCEEDINGS
OF THE
ZOOLOGICAL SOCIETY
OF LONDON.



PART XXIII.

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PROCEEDINGS
OF THE
ZOOLOGICAL SOCIETY OF LONDON.

January 9, 1855.

Dr. Gray, Vice-President, in the Chair.

The following papers were read :—

1. DESCRIPTIONS OF TWENTY-SEVEN NEW SPECIES OF ACHATINELLA, FROM THE COLLECTION OF H. CUMING, ESQ., COLLECTED BY DR. NEWCOMB AND BY MONS. D. FRICK, LATE CONSUL-GENERAL OF FRANCE AT THE SANDWICH ISLANDS. BY DR. L. PFEIFFER.

(Mollusca, Pl. XXX.)

Genus ACHATINELLA.

Sect. NEWCOMBIA, Pfr. in Malak. Bl. 1854, p. 117.

1. A. APTYCHA, Pfr. (Pl. XXX. fig. 1.) *A. testa imperforata, dextrorsa, oblongo-conica, tenuiuscula, striatula, parum nitida, alba, cingulis punctatis, castaneis ornata; spira elongato-conica, apice obtusula; sutura subsimplice; anfract. 6½, convexiusculis, ultimo ⅔ longitudinis subæquante, basi rotundato; apertura obliqua, truncato-ovali; intus lactea; plica columellari obsoleta, vix tortula; peristom. simplice, intus levissime labiato, margine dextro recto, columellari angusto, adnato.*

Long. $21\frac{1}{2}$, diam. 10 mill.

Hab. In insulis Sandwich (*Frick*).

Sect. AURICULELLA, Pfr.

(Testa subperforata, oblongo-conica; paries aperturalis lamella spiraleriter intrante munitus, plica columellaris supera, dentiformis vel obsoleta; perist. expansiusculum. Species: *Helix auricula*, Fér., *Tornatellina Petitiiana*, Pfr., *Partula pusilla*, Gould?)

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2. *A. CEREAE*, Pfr. (Pl. XXX. fig. 21.) *A. testa subperforata, dextrorsa, elongato-conica, tenui, striatula, diaphana, cerea; spira turrita, apice obtusa; anfr. 8, vix convexiusculis, ultimo $\frac{1}{3}$ longitudinis subæquante, basi subcompresso; apertura parum obliqua, truncato-ovali; lamella parietali tenui; plica columellari obsoleta; perist. albo, margine dextro breviter expanso, columellari dilatato, patente.*

Long. $8\frac{2}{3}$, diam. $3\frac{2}{3}$ mill.

Hab. In insulis Sandwich (Dr. Newcomb).

Sect. FRICKELLA, Pfr.

(Testa subperforata, oblonga; paries aperturalis lamella spiraliter intrante munitus; plica columellaris compressa, mediana; perist. simplex, rectum.)

3. *A. AMÆNA*, Pfr. (Pl. XXX. fig. 3.) *A. testa subperforata, ovato-oblonga, tenui, striatula, nitida, lutea, fusco obsolete uni-fasciata; spira convexo-conica, apice obtusula; sutura impressa; anfr. $6\frac{1}{2}$, convexiusculis, ultimo $\frac{3}{7}$ longitudinis subæquante, basi subattenuato; apertura obliqua, semiovali; lamina parietali subtransversa; plica columellari subduplicata, callosa, superposita, lamina spirali; perist. simplice, recto.*

Long. $11\frac{1}{2}$, diam. 5 mill.

Hab. In insulis Sandwich (Frick).

Sect. BULIMELLA, Pfr. in Malak. Bl. 1854, p. 119.

4. *A. CANDIDA*, Pfr. (Pl. XXX. fig. 4.) *A. testa dextrorsa, imperforata, ovato-conica, striatula, parum nitida, candida; spira convexo-conica, vertice minuto, nigro, acutiusculo; sutura levi, filomarginata; anfr. $6\frac{1}{2}$, planiusculis, ultimo $\frac{3}{7}-\frac{4}{9}$ longitudinis æquante, obsolete angulato, basi rotundato; apertura obliqua, truncato-auriformi; plica columellari mediocri, supera, obliqua, subcompressa; perist. fusco-violaceo, intus valide labiato, margine dextro expanso, columellari dilatato, plano, crasso, adnato.*

Long. 22, diam. 11 mill.

Hab. In insulis Sandwich (Frick).

5. *A. CINEROSA*, Pfr. (Pl. XXX. fig. 5.) *A. testa dextrorsa, imperforata, ovato-conica, solida, sublevigata, nitida, fusco-grisea, lineis fuscis et albis radiata; spira conica, apice acutiuscula, alba; sutura subcrenulata, albo-marginata; anfr. 6, vix convexiusculis, ultimo spira paulo brevior, basi rotundato; apertura parum obliqua, truncato-auriformi; plica columellari torta, valida, denticiformi; perist. crasse albo-labiato, margine dextro substricto, breviter expanso, columellari crasso, adnato.*

Long. 21, diam. 11 mill.

β . *Fulvida, fusco radiata, sutura concolore.*

Hab. In insulis Sandwich (Frick).

6. *A. MACROSTOMA*, Pfr. (Pl. XXX. fig. 6.) *A. testa dextrorsa, imperforata, conico-ovata, solidula, levissime striatula, nitida, fulva, fasciis nonnullis pallidis et fuscis variegata; spira*

conica, obtusula; sutura submarginata; anfr. 5½, modice convexis, ultimo spiram æquante, superne turgido, medio attenuato, basi rotundato; apertura parum obliqua, ampla, obauriformi, intus alba; perist. albo, leviter labiato, margine dextro expanso, superne valde curvato, columellari dilatato, adnato.

Long. 21½, diam. 11 mill.

Hab. In insulis Sandwich (*Frick*).

7. A. FRICKI, Pfr. (Pl. XXX. fig. 7.) *A. testa subimperfurata, dextrorsa vel sinistrorsa, oblongo-ovata, solida, leviter striata, nitida, coloribus pervaria; spira convexiusculo-conica, ucuta; sutura anguste marginata; anfr. 6, vix convexiusculis, ultimo ¾ longitudinis subæquante, basi rotundato; apertura obliqua, obauriformi; plica columellari supera, torta, valida; perist. expansiusculo, obtuso, violaceo vel nigro labiato et limbato, margine dextro substricto.*

Long. 20–21, diam. 10½ mill.

α. *Isabellina, pallide fusco subfasciata, sutura alba.*

β. *Læte castanea, fasciis albis et saturatoribus ornata (sinistrorsa).*

γ. *Griseo-fusca, fasciis saturatoribus picta, sursum alba.*

δ. *Alba vel lutescens, fasciis 2–3 nigro-fuscis ornata.*

Hab. In insulis Sandwich (*Frick*).

8. A. PLANOSPIRA, Pfr. (Pl. XXX. fig. 8.) *A. testa imperforata, dextrorsa, ovato-pyramidata, solida, conferte striata et sub lente obsoletissime decussata, nitida, nigricante, fasciis nonnullis albis vel luteis, angustis ornata; spira conica, acutiuscula; sutura lineari, marginata; anfr. 5½, planis, ultimo spira paulo brevior, obsolete angulato, basi rotundato; apertura obliqua, obauriformi; plica columellari supera, valida, torta, alba; perist. crasse albo-labiato, margine dextro repando, breviter expanso, columellari adnato.*

Long. 19, diam. 9½ mill.

β. *Superne nigro-castanea, anfr. ultimo fulvo, brunneo lineato.*

Hab. In insulis Sandwich (*Frick*).

9. A. MONACHA, Pfr. (Pl. XXX. fig. 9.) *A. testa imperforata, ovato-conica, solida, oblique striatula, parum nitida, griseo-alba, lineis fuscis varie cincta; spira elevato-conica, acutiuscula; sutura leviter marginata, subcrenulata; anfr. 6, convexiusculis, ultimo spira paulo brevior, basi rotundato; apertura obliqua, late obauriformi; plica columellari supera, obliqua, mediocri; perist. sublabiato, margine dextro breviter expanso, columellari crasso, flexuoso, adnato.*

Long. 20, diam. 10½ mill.

Hab. In insulis Sandwich (*Frick*).

10. A. VIDUA, Pfr. (Pl. XXX. fig. 10.) *A. testa subimperfurata, dextrorsa, conico-ovata, striatula, sub lente minutissime decussata, nitida, saturate fusca, cæruleo-albido bifasciata; spiru convexo-conica, apice obtusula; sutura subsimplice; anfr. 6, vix convexiusculis, ultimo spira paulo brevior, basi rotundato; aper-*

tura parum obliqua, truncato-oblonga; plica columellari obsoleta, vix torta; perist. intus valide labiato, margine dextro anguste reflexo, columellari dilatato, subadnato.

Long. $18\frac{1}{2}$, diam. 10 mill.

Hab. In insulis Sandwich (*Frick*).

11. *A. MULTICOLOR*, Pfr. (Pl. XXX. fig. 11.) *A. testa imperforata, dextrorsa vel sinistrorsa, conico-oblonga, solida, striata et sub lente minutissime decussata, nitida, lutea vel albida, fasciis nigro-castaneis varie ornata, rarius unicolore; spira elongato-conica, apice subattenuata, acutiuscula; sutura marginata; anfr. 6, planiusculis, ultimo $\frac{2}{5}$ longitudinis subæquante, basi rotundato; apertura obliqua, truncato-obauriformi; plica columellari supera, valido, torta; perist. nigro-limbato, margine externo substricto, breviter expanso, columellari dilatato, subadnato.*

Long. 17, diam. 9 mill.

Hab. In insulis Sandwich (*Frick*).

12. *A. ATTENUATA*, Pfr. (Pl. XXX. fig. 12.) *A. testa subperforata, ovato-turrita, tenuiuscula, striatula et sub lente granulata, alba, strigis corneis sæpe angulosis picta; spira concavo-turrita, obtusula; sutura distincte filomarginata; anfr. $5\frac{1}{2}$, superis planis, sequentibus convexis, ultimo $\frac{5}{7}$ longitudinis subæquante, rotundato, basi subcompresso; apertura obliqua, subtetragono-auriformi; plica columellari valida, compressa, linguæformi; perist. acuto, breviter expanso, intus labiato, margine basali cum columellari dilatato intus angulum formante.*

Long. 16, diam. $7\frac{1}{2}$ mill.

Hab. In insula Mani, Sandwich (*Frick*).

13. *A. SWAINSONI*, Pfr. (Pl. XXX. fig. 13.) *A. testa sinistrorsa, imperforata, ovato-conica, solida, sublævigata, nitida, albida, fulvo tenuiter strigata; spira conica, apice fulva, acutiuscula; sutura marginata; anfr. $5\frac{1}{2}$, convexiusculis, ultimo $\frac{2}{5}$ longitudinis subæquante, infra suturam turgido, basi rotundato; apertura fere diagonali, obauriformi; plica columellari supera, valida, nodiformi; perist. nigro-fusco limbato, margine externo reflexiusculo, intus crasse labiato, columellari crasso, flexuoso, adnato.*

Long. 20, diam. 11 mill.

β . *Virenti-lutea, anfr. ultimo antice castaneo.*

Hab. In insulis Sandwich (*Frick*).

14. *A. SOWERBYANA*, Pfr. (Pl. XXX. fig. 14.) *A. testa sinistrorsa, imperforata, conico-oblonga, solidula, sublævigata, glutinoso-nitente, fulvo-lutescente, saturatius subradiata; spira convexiusculo-conica, subacuta; sutura marginata; anfr. 6, vix convexiusculis, ultimo spira paulo brevior, basi saccato-rotundato; apertura obliqua, obauriformi, intus alba; plica columellari supera, valida, torta, rosea; perist. roseo-labiato, margine externo breviter expanso, columellari dilatato, adnato.*

Long. 18, diam. 9 mill.

β . *Paulo minor, flavo-albida, basi castanea vel viridula.*

Hab. In insulis Sandwich (*Frick*).

15. *A. DOLIUM*, Pfr. (Pl. XXX. fig. 15.) *A. testa perforata, ovato-conica, tenuiuscula, leviter striatula, parum nitente, pallide lutescente, fasciis et strigis angustis, fuscis variegata; spira conica, acutiuscula; sutura vix marginata; anfr. 6, convexis, ultimo spiram paulo superante, ventroso, basi subcompresso; apertura obliqua, obauriformi, intus alba; plica columellari alta, dentiformi, alba; perist. tenui, intus sublabiato, margine dextro anguste expanso, columellari dilatato, patente.*

Long. 17, diam. 10 mill.

Hab. In insulis Sandwich (*Dr. Newcomb*).

16. *A. FORBESIANA*, Pfr. (Pl. XXX. fig. 16.) *A. testa subperforata, dextrorsa vel sinistrorsa, ovato-conica, solida, conferte striatula, nitida, grisea vel albida, fasciis crebris griseis vel fuscis, sæpe confluentibus picta; spira exacte conica, sursum alba, apiculo nigro acutiusculo; sutura marginata; anfr. 6, convexiusculis, ultimo spira paulo brevior, rotundato; apertura obliqua, obauriformi; plica columellari supera, valida, nodiformi; perist. fusculo vel carneo limbato, margine externo breviter expanso, columellari crasso, subadnato.*

Long. 19, diam. $10\frac{1}{2}$ mill.

Hab. In insulis Sandwich (*Frick*).

Sect. LAMINELLA, Pfr. in Malak. Bl. 1854, p. 126.

17. *A. RUDIS*, Pfr. (Pl. XXX. fig. 17.) *A. testa subimperfurata, ovato-turrita, solida, ruditer striata, fulvo-fusca; spira elevato-conica, acutiuscula; sutura simplice, levissime crenulata; anfr. $7\frac{1}{2}$, modice convexis, ultimo $\frac{2}{5}$ longitudinis vix formante, rotundato; apertura obliqua, sinuato-ovali; plica columellari mediana, laminaeformi, subtransversa; perist. simplice, recto, acuto, margine columellari dilatato, reflexo, subadnato.*

Long. 21, diam. $11\frac{1}{2}$ mill.

β . *Castanea, fascia mediana et basi lutescentibus, spira minus elongata.*

Hab. In insulis Sandwich (*Frick*).

18. *A. FUSIFORMIS*, Pfr. (Pl. XXX. fig. 18.) *A. testa imperforata, fusiformi-oblonga, tenuiuscula, striatula, saturate fusca, pallide conspersa et oblique lineolata; spira convexo-conica, apice nigra, acuta; sutura simplice; anfr. 7, vix convexiusculis, ultimo $\frac{2}{5}$ longitudinis formante, basi attenuato; apertura obliqua, ellipsoidea; plica columellari levi, compressa, subduplicata; perist. simplice, recto, margine dextro regulariter arcuato, columellari anguste adnato.*

Long. 14, diam. $6\frac{2}{3}$ mill.

Hab. In insulis Sandwich (*Frick*).

Sect. ACHATINELLASTRUM, Pfr. in Malak. Bl. 1854, p. 133.

19. *A. NAPUS*, Pfr. (Pl. XXX. fig. 19.) *A. testa imperforata, dextrorsa, turrita, solida, striatula, nitidula, albida, fasciis griseo-carneis et interdum lineis castaneis cingulata; spira elongato-conica, apice alba, acuta; sutura distincte marginata; anfr. $6\frac{1}{2}$,*

superis planis, sequentibus convexiusculis, ultimo $\frac{1}{2}$ longitudinis subæquante, rotundato; apertura diagonali, truncato-auriformi; plica columellari supera, mediocri, leviter torta; perist. intus labiato, margine dextro recto, columellari subdilato, adnato.

Long. $19\frac{1}{2}$, diam. $10\frac{1}{2}$ mill.

Hab. In insulis Sandwich (*Frick*).

20. *A. VENTROSA*, Pfr. (Pl. XXX. fig. 20.) *A. testa imperforata, ovato-conica, solidula, striata, alba, deorsum epidermide fulva, nigro-strigata vestita; spira conica, obtusa; anfr. $5\frac{1}{2}$, inflatis, ultimo spira paulo brevior, basi rotundato; apertura fere diagonali, late auriformi, intus alba; plica columellari crassa, dentiformi; perist. intus labiato, margine dextro recto, substrictè descendente, leviter antrorsum arcuato, columellari brevi, adnato.*

Long. $17\frac{1}{2}$, diam. 11 mill.

Hab. In insulis Sandwich (*Dr. Newcomb*).

21. *A. PULCHELLA*, Pfr. (Pl. XXX. fig. 2.) *A. testa imperforata, ovato-conica, sublævigata, nitida, fulva, fasciis nigro-viridibus et interdum fascia mediana alba ornata; spira conica, versus apicem acutum attenuata, alba, sutura filomarginata; anfr. $5\frac{1}{2}$, convexiusculis, ultimo $\frac{3}{7}$ longitudinis subæquante, rotundato; apertura fere diagonali, subtetragono, auriformi; plica columellari supera, dentiformi, valida; perist. intus valide labiato, margine dextro recto, strictiusculo, columellari reflexo, subadnato.*

Long. $15\frac{1}{2}$, diam. 10 mill.

Hab. In insulis Sandwich (*Frick*).

22. *A. GRACILIS*, Pfr. (Pl. XXX. fig. 22.) *A. testa imperforata, gracili, turrita, solidula, sublævigata, alba, fusco bifasciata; spira elongata, regulariter attenuata, apice obtusula; sutura simplice; anfr. 8, planiusculis, ultimo $\frac{1}{3}$ longitudinis fere æquante, basi rotundato; apertura subverticali, sinuato-ovali; plica columellari mediana, subcompressa; perist. simplice, margine dextro recto, leviter arcuato, columellari dilato, adnato.*

Long. 14, diam. $5\frac{1}{2}$ mill.

Hab. In insulis Sandwich (*Dr. Newcomb*).

23. *A. CRASSIDENTATA*, Pfr. (Pl. XXX. fig. 23.) *A. testa imperforata, sinistrorsa, solidula, striatula, parum nitida, alba, fasciis nonnullis luteis ornata, interdum basi virenti-lutea; spira conica, apice obtusula; sutura marginata; anfr. $5\frac{1}{2}$, convexiusculis, ultimo $\frac{3}{7}$ longitudinis subæquante, basi rotundato; apertura diagonali, sinuato-semiovali; plica columellari supera, crassissima, dentiformi; perist. simplice, margine externo acuto, leviter arcuato, columellari brevi, angusto.*

Long. 20, diam. 11 mill.

Hab. In insulis Sandwich (*Frick*).

24. *A. VALIDA*, Pfr. (Pl. XXX. fig. 24.) *A. testa imperforata, dextrorsa (rarius sinistrorsa), ovato-conica, solida, sublævigata, cinereo-fusca, pallide subfasciata et nigro strigatula; spira elevata, conica, apice fusca, acuta; sutura marginata, alba; anfr. 6, pri-*

mis 3 planis, sequentibus convexiusculis, ultimo $\frac{2}{5}$ longitudinis subæquante, inflato; apertura obliqua, truncato-auriformi; plica columellari supera, nodiformi, parum torta; perist. fusco limbato, margine dextro subrecto, strictiusculo, columellari dilatato, appresso.

Long. $21\frac{1}{2}$, diam. 13 mill.

β. Nigra, pallide interrupte lineolata vel fasciata.

Hab. In insulis Sandwich (*Frick*).

25. *A. GLOBOSA*, Pfr. (Pl. XXX. fig. 25.) *A. testa subimperfurata, dextrorsa, conico-globosa, tenuiuscula, striatula, alba, lineis fuscis cingulata; spira brevi, convexiusculo-conica, subacuta; sutura levi, submarginata; anfr. 5, modice convexis, ultimo ventroso, spiram subæquante, basi fusco; apertura obliqua, subtetra-gono-ovali, intus margaritacea; plica columellari levi, vix torta; perist. acuto, fusco-limbato, intus albo-sublabiato, margine columellari incrassato, subadnato.*

Long. 17, diam. $11\frac{1}{2}$ mill.

Hab. In insulis Sandwich (*Frick*).

26. *A. CONSPERSA*, Pfr. (Pl. XXX. fig. 26.) *A. testa imperforata, dextrorsa, conico-ovata, tenuiuscula, conferte striata, saturate fusca, maculis sordide albidis, strigas angulosas formantibus conspersa; spira convexo-conica, apice acuta; sutura simplice; anfr. 6, superis planiusculis, penultimo convexiore, ultimo $\frac{3}{4}$ longitudinis subæquante, rotundato; apertura parum obliqua, sinuato-elliptica; plica columellari subbasali, compressa; perist. simplice, recto, margine columellari nullo.*

Long. 18, diam. $10\frac{1}{2}$ mill.

Hab. In insulis Sandwich (*Frick*).

Sect. LABIELLA, Pfr. in Malak. Bl. 1854, p. 142.

27. *A. DENTATA*, Pfr. (Pl. XXX. fig. 27.) *A. testa imperforata, conico-ovata, solida, striatula, nitida, sub epidermide fulvida alba; spira conica, obtusa; anfr. 7, planiusculis, ultimo $\frac{3}{4}$ longitudinis subæquante, basi rotundato; apertura fere verticali, sub-rhombea, basi angulata; plica columellari profunda, compressa; perist. albo-callosa, marginibus callo junctis, dextro recto, medio introrsum unidentato; columellari dilatato, adnato.*

Long. 12, diam. $5\frac{2}{3}$ mill.

Hab. In insulis Sandwich (*Dr. Newcomb*).

2. DESCRIPTIONS OF NINE NEW SPECIES OF LAND-SHELLS, IN THE COLLECTION OF H. CUMING, ESQ. BY DR. L. PFEIFFER.

1. *BULIMUS LATILABRIS*, Pfr. *B. testa imperforata, succinoidea, tenui, longitudinaliter subgranulato-rugulosa, flavida, strigas angulatis, castaneis subtessellata, vel ad suturam interrupte fasciata; spira brevi, conica, acutiusecula; anfr. 4, rapide accrescentibus, vix convexiusculis, ultimo fere $\frac{3}{4}$ longitudinis formante; columella ad apicem spiræ aperta; apertura subverti-*