

PROCEEDINGS  
OF THE  
ZOOLOGICAL SOCIETY OF LONDON.

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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.  $6\frac{1}{2}$ , convexiusculis, ultimo  $\frac{2}{5}$  longitudinis subaequante, 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 Petitiana*, 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 unifasciata; 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, sublævigata, 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, dentiformi; perist. crasse albo-labiato, margine dextro substricto, breviter expanso, columellari crasso, adnato.*

Long. 21, diam. 11 mill.

$\beta$ . *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 subimperfata, dextrorsa vel sinistrorsa, oblongo-ovata, solida, leviter striata, nitida, coloribus pervaria; spira convexiusculo-conica, acuta; 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 saturatioribus ornata (sinistrorsa).*

γ. *Griseo-fusca, fasciis saturatioribus 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 albolabiato, 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 subimperfata, dextrorsa, conico-ovata, striatula, sub lente minutissime decussata, nitida, saturate fusca, cæruleo-albido bifasciata; spira 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  $\frac{2}{3}$  longitudinis subæquante, basi rotundato; apertura obliqua, truncato-obauriformi; plica columellari supera, valida, 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  $\frac{3}{4}$  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  $\frac{2}{3}$  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.

$\beta$ . *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.

$\beta$ . *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, fusculis 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. fuscule 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, laminæformi, subtransversa; perist. simplice, recto, acuto, margine columellari dilatato, reflexo, subadnato.*

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

$\beta$ . *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.  $6\frac{1}{2}$ ,*



Gray, John Edward. 1855. "An arrangement of the families of Echinidae, with descriptions of some new genera and species." *Proceedings of the Zoological Society of London* 23, 35–39.

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