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M. J. ROTHSCHILD,
43, RUE SAINT ANDRÉ DES ARTS.

LEIPZIG:

M. J. ROTHSCHILD,
34, QUERSTRASSE.

on the thighs; sides of the forehead grey; sides of neck, outsides of the shoulders and fore legs fulvous; crown and nape blackish.

Hab. Brazil.

The series of skulls of different species in the British Museum collection do not present any characters by which they can be divided: the adult skulls are almost all of nearly the same size and proportions; they only differ in the form of the impression of the muscles of the lower jaw. In some they are separated only by a very thin central ridge, extending the whole length of the skull; in others they are separated by a broad space of nearly equal width; but in some others the edges of the scars are far apart in front, and close together, with a linear ridge, behind, leaving a triangular smooth space on the fore part of the crown. But these are doubtless changed by age, though there must be a considerable difference in the form of the muscles of the last group and those of the two former ones.

15. DESCRIPTIONS OF THIRTEEN NEW SPECIES OF LAND-SHELLS FROM FORMOSA, IN THE COLLECTION OF THE LATE HUGH CUMING, COLLECTED BY MR. ROBERT SWINHOE, VICE-CONSUL OF THAT ISLAND. BY DR. LOUIS PFEIFFER.

(Plate XLVI.)

1. *HELIX VESTA*, Pfr. (Pl. XLVI. fig. 9). *T. subobtecte perforata, depressa, tenuis, lævigata, nitidissima, pellucida, virenti-cornea; spira subconoidea, vertice minuto, papillari; sutura marginata; anfr. 5½, convexiusculi, regulariter accrescentes, ultimus rotundato-depressus, antice non descendens, basi medio impressus, perforatione callo subclausa; apertura obliqua, dilatato-lunaris; perist. simplex, marginibus subconvergentibus, columellari arcuatim ascendente, ad insertionem reflexiusculo.*
Diam. maj. 15½, min. 13, alt. 7½ mill.

2. *HELIX SHERMANI*, Pfr. (Pl. XLVI. fig. 5). *T. umbilicata, lentiformis, carinata, solidula, oblique striata et sub lente subgranulata, rufo-fusca; spira conoideo-convexa, vertice minuto, subpapillari, pallido; sutura marginata; anfr. 7, lente accrescentes, planiusculi, ultimus non descendens, acute carinatus, subtus convexior; umbilicus latiusculus; apertura fere diagonalis, securiformis; perist. simplex, marginibus vix convergentibus, basali arcuato, ad insertionem non dilatato.*
Diam. maj. 18, min. 16½, alt. 8 mill.

3. *HELIX GRANTI*, Pfr. (Pl. XLVI. fig. 10). *T. umbilicata, turbinata, tenuiuscula, striatula, sub lente fortiore minutissima decussatula, parum nitens, fusco-cornea; spira subregulariter conica, vertice subtili; anfr. 6¼, convexiusculi, ultimus infra carinam acutam, marginem fere attingentem convexior, in um-*



G.B Sowerby lith.

M.A.N. Zahnart imp.

NEW FORMOSAN SHELLS

bilicum mediocrem subito ascendens, antice vix descendens; apertura diagonalis, rotundato-lunaris; perist. tenue, marginibus convergentibus, supero breviter expanso, basali arcuato, reflexo, columellari dilatato, patente.

Diam. maj. 15, min. 13, alt. 8 mill.

4. *HELIX SWINHOEI*, Pfr. (Pl. XLVI. fig. 6). *T. mediocriter umbilicata, turbinato-depressa, solidula, oblique ruguloso-striata striisque spiralibus confertissimis subtiliter sculpta, unde subsericea, fulvo-fusca, submarmorata; spira breviter turbinata, obtusula; anfr. 5-5½, superi planiusculi, ultimus vix descendens, superne subtumidus, medio carina prominente obtusa cinctus, subtus inflatus; apertura diagonalis, rotundato-lunaris, intus cærulescenti-margaritacea; perist. carneo-fuscum, marginibus convergentibus, callo tenui junctis, supero anguste expanso, basali reflexiusculo, versus insertionem sensim dilatato.*

Diam. maj. 52-58, min. 43-48, alt. 27-28 mill.

β. *Minor, fulva, peristomate pallide roseo, apertura intus alba.*

Diam. maj. 46, min. 39, alt. 25 mill.

5. *HELIX FORMOSENSIS*, Pfr. (Pl. XLVI. fig. 7). *T. sinistralis, umbilicata, subturbinato-depressa, tenuiuscula, oblique subtiliter striata, sub epidermide tenuissima cerea albida; spira breviter turbinata, vertice obtuso; anfr. 5½, regulariter accrescentes, parum convexi, ultimus peripheria obsolete unifasciatus et subangulatus, antice vix descendens, subtus convexus, striis spiralibus minutissimis sculptus, circa umbilicum mediocrem profundum non compressus; apertura diagonalis, late lunaris; perist. subincrassatum, marginibus remotis, supero sinuato, expansiusculo, basali reflexo, ad insertionem dilatato.*

Diam. maj. 26, min. 22½, alt. 12-13 mill.

6. *HELIX BACCA*, Pfr. (Pl. XLVI. fig. 8). *T. umbilicata, globoso-depressa, solida, levissime striatula, albo-lutescens, fasciis 3 castaneis (peripherica latiore) ornata; spira breviter turbinata, vertice subtili, carneo; anfr. 5½, modice convexi, ultimus non descendens, basi subinflatus, striis spiralibus obsoletissimis sculptus, circa umbilicum angustissimum impressus; apertura parum obliqua, lunaris, intus alba, fasciis pellucidibus; perist. album, undique breviter reflexum, marginibus remotis, basali ad insertionem dilatato, subangulato.*

Diam. maj. 23½, min. 20½, alt. 14 mill.

7. *HELIX MELLEA*, Pfr. (Pl. XLVI. fig. 4). *T. umbilicata, depressa, carinata, tenuiuscula, sub lente minutissime granulata, oleoso micans, pallide fulva; spira parum elevata, vertice obtuso; anfr. fere 5, planiusculi, regulariter accrescentes, ultimus antice vix descendens, infra carinam acutiusculam subinflatus; umbilicus mediocris, profundus; apertura parum obliqua, subangulato-lunaris; perist. albidum, marginibus vix convergentibus,*

supero anguste expanso, basali subreflexo, columellari breviter ascendente, superne subdilatato.

Diam. maj. 22, min. 20, alt. 9 mill.

8. *BULIMUS SWINHOEI*, Pfr. (Pl. XLVI. fig. 2, 2a). *T. umbilicata, ovato-conica, tenuiuscula, oblique striatula, striis spiralis confertissimis decussata, fulvida, strigis brunneis vel nigricantibus irregulariter ornata; spira convexo-conica, sursum pallida, vertice acuto; anfr. 6½, parum convexi, ultimus spira brevior, basi rotundatus; apertura parum obliqua, truncato-ovalis, intus cærulescenti-margaritacea; perist. simplex, tenue, margine dextro anguste expanso, columellari late fornicatim reflexo.*
Long. 35, diam. 20 mill.

9. *BULIMUS SPHÆROCONUS*, Pfr. (Pl. XLVI. fig. 3). *T. subclausa perforata, globoso-conica, tenuiuscula, oblique striata, carneo-albida, epidermide nitida fulvida vestita; spira conica, vertice acutiusculo; anfr. 6, convexiusculi, ultimus spira brevior, ventrosus, medio linea rufa cinctus; columella verticalis; apertura obliqua, subquadrangularis; perist. tenue, breviter expansum, marginibus remotis, dextro subflexuoso, columellari sursum dilatato, reflexo.*
Long. 22, diam. 17 mill.

10. *BULIMUS INCERTUS*, Pfr. (Pl. XLVI. fig. 1). *T. subperforata, oblongo-turrita, tenuis, minute et oblique ruguloso-striata, nitidula, fulva; spira convexo-turrita, vertice obtusulo; anfr. 10 convexiusculi, ultimus ¼ longitudinis vix formans, rotundatus; apertura perobliqua, lunari-rotundata; perist. simplex, rectum, margine columellari ad insertionem vix reflexo.*
Long. 10, diam. 4¾ mill.

11. *CLAUSILIA SWINHOEI*, Pfr. (Pl. XLVI. fig. 11). *T. leviter arcuato-rimata, fusiformi-turrita, solida, oblique striata, sericea, castanea; spira sensim attenuata, apice obtusa; anfr. 10-11, convexiusculi, ultimus basi turgidus; apertura verticalis, ovalis, angulo supero rotundato; lamellæ fortes, supera marginalis, altera obliqua; lunella imperfecta, e pliculis 6 formata; plica palatalis 1 elongata, subcolumellaris fere ad marginem emersa; perist. continuum, album, callosum, superne appressum, cæterum reflexum.*
Long. 31-34, diam. 8 mill.

12. *CLAUSILIA SHERIDANI*, Pfr. *T. subrimata, fusiformi-turrita, solidula, striata, nitida, saturate castanea; spira a medio subregulariter attenuata, apice acutiuscula; sutura simplex, profunda; anfr. 9-10, convexi, ultimus angustior, costulato-striatus, solutus, dorso angulatus, basi rotundatus; apertura subobliqua, angulato-piriformis; lamellæ parvulæ, approximatae; lunella exigua, remota; plica palatalis 1 elongata, sub-*

columellaris ad marginem emersa; perist. continuum, undique breviter expansum.

Long. 15-16, diam. $3\frac{1}{2}$ mill.

β. *Peristomate extus intusque albo-incrassato, inde apertura coarctata, lamella inferiore et plica columellari vix conspicuis.*

13. **PTEROCYCLOS WILSONI**, Pfr. (Pl. XLVI. fig. 12). *T. late umbilicata, subdiscoidea, solidula, striatula, nitida, fulva, castaneo dense fulgurata; spira medio vix elevata; anfr. $4\frac{1}{2}$, modice convexi, ultimus subdepresso-rotundatus, medio linea castanea cinctus; apertura diagonalis, subcircularis, intus violacescens; perist. duplex; internum expansiusculum, adnatum, superne vix incisum, externum patens, ad anfractum contiguum productum, tum late inflexum, latere dextro angustius involutum. Operc.?*
Diam. maj. 22, min. 18, alt. $7\frac{1}{2}$ mill.

DESCRIPTION OF PLATE XLVI.

Fig. 1. *Bulimus incertus.*

2, 2a. — *swinhoei.*

3. — *sphæroconus.*

4. *Helix mellea.*

5. — *shermani.*

6. — *swinhoei.*

Fig. 7. *Helix formosensis.*

8. — *baeca.*

9. — *vesta.*

10. — *granti.*

11. *Clausilia swinhoei.*

12. *Pterocyclos wilsoni.*

16. DESCRIPTIONS OF FIVE NEW SPECIES OF LAND-SHELLS, FROM THE COLLECTION OF THE LATE HUGH CUMING. BY DR. LOUIS PFEIFFER.

1. **BULIMUS AURIS**, Pfr. *T. profunde compresso-umbilicata, ovato-turrita, solidula, lævigata, alba, strigis parvis undulatis castaneis signata; spira turrita, acutiuscula; anfr. 6, convexi, ultimus spiram subæquans, rotundatus, antice ascendens; apertura subverticalis, obverse auriformis, intus violaceo limbata; columella profunde et valide transverse plicata, violacea; perist. late expansum, marginibus approximatis, callo junctis, columellari flexuose elevato.*

Long. 39, diam. $14\frac{1}{2}$ mill. Apert. cum perist. 20 mill. longa, medio 13 lata.

Hab. Venezuela.

2. **BULIMUS TENUILABRIS**, Pfr. *T. profunde umbilicata, ovato-turrita, tenuis, sublævigata (sub lente minute spiraliter striata), nitida, alabastrina; spira turrita, apice acuto; anfr. 7, planiusculi, ultimus spira brevior, antice vix ascendens, basi compresso-rotundatus; apertura vix obliqua, truncato-oblonga; perist. simplex, margine dextro breviter expanso, columellari ad basin usque per dilatato, patente.*

Long. 30, diam. 12 mill. Apert. cum perist. $14\frac{1}{2}$ mill. longa, 10 lata.

Hab. Venezuela.