

PROCEEDINGS

OF THE

ZOOLOGICAL SOCIETY

OF LONDON.



PART XXIV.

1856.

PRINTED FOR THE SOCIETY ;
SOLD AT THEIR HOUSE IN HANOVER-SQUARE,
AND BY MESSRS. LONGMAN, BROWN, GREEN AND LONGMANS,
PATERNOSTER-ROW.





1. *Cylindrella Ghesbreght* Pf. 2. *C. turris* Pf. 3. *C. clava* Pf.
 4. 5. *Felix neta* Pf., and var. 6. 7. *H. lombi* Pf. and var.
 8. *H. Grevillei* Pf.

1. Brine spring near Usdum with fish. Temp. 90° F. Spec. grav. 1·035.

2. North End near Jordan. Temp. 83° F. Spec. grav. 1·196.

3. Dead Sea, Usdum, South End. Temp. 83° F. Spec. grav. 1·204.

4. El Lisan (Peninsula), North End. Spec. grav. 1·200.

No. 1 smelt strongly of sulphuretted hydrogen, and contained a good deal of suspended matters. No. 2 pretty clear; less sulphuretted hydrogen. Nos. 3 and 4 clear, and no sulphuretted hydrogen.

I remain,

My dear Sir Roderick,

Yours very sincerely,

A. W. HOFMAN.

Sir Roderick Murchison,

‡c. ‡c.

Calculated evaporation from the area of the Dead Sea at temp. 84° F. (58·6 dew-point) 1,500,000,000 gallons, or 6,500,000 tons. Assumed area 320 square miles (H. Poole).

3. DESCRIPTIONS OF NINETEEN NEW SPECIES OF LAND-SHELLS, FROM MR. H. CUMING'S COLLECTION, COLLECTED BY M. GHIESBREGHT AT CHIAPA, MEXICO. BY DR. L. PFEIFFER.

(Mollusca, Pl. XXXVI.)

1. *SIMPULOPSIS CHIAPENSIS*, Pfr. *S. testa depresso globosa, tenuissima, confertim striata, nitida, pellucida, cornea; spira minuta, parum prominula; sutura canaliculata; anfr. 2½ convexis, ultimo magno; columella tenui, arcuata; apertura diagonali, lunato-circulari; perist. simplice, recto, margine dextro superne subrecedente.*

Diam. maj. 8½, min. 6½, alt. 4½ mill.

2. *HELIX HELICTOMPHALA*, Pfr. *H. testa umbilicata, depressa, solida, oblique costulata, nitidula, pallide lutescenti-cornea; spira vix elevata; anfr. 5½ convexiusculis, ultimo antice subdeflexo, supra medium subcarinato, basi inflato, circa umbilicum, ⅓ diametri fere æquantem, scalariformem subcompresso, antice constricto et scrobiculato; apertura diagonali, rotundato-lunari, dente linguæformi, sublibero parietis coarctata; perist. albo, angulatum reflexo, margine supero subhorizontali, dextro et basali acute unidentatis.*

Diam. maj. 12, min. 10⅓, alt. 5⅓ mill.

3. *HELIX CHIAPENSIS*, Pfr. *H. testa umbilicata, depressa, solidula, striata, nitida, albido-cornea, ad suturam fusculo-fasciata; spira breviter conoidea; anfr. 5½ convexiusculis, ultimo antice deflexo, superne turgido, subtus constricto, basi*

inflato; umbilico parvo, subregulari, pervio; apertura diagonali, magna, sinuato-lunari, dente parvulo, tenui, obliquo, libero parietis subcoarctata; perist. albo, breviter reflexo, marginibus conniventibus, supéro subascendente, dextro dente descendente et basali denticulo obsoleto munito.

Diam. maj. $10\frac{1}{2}$, min. 9, alt. 6 mill.

4. SPIRAXIS EUPTYCTA, Pfr. *Sp. testa turrata, solidula, plicis compressis, superne distantibus, deorsum confertioribus sculpta, nitidula, cereo-albida; spira regulariter attenuata, acutiuscula; sutura plicis excurrentibus crenata; anfr. 9- $9\frac{1}{2}$ convexis, ultimo $\frac{1}{4}$ longitudinis vix æquante, rotundato; lamina columellari leviter torta, subreflexa, non truncata; apertura vix obliqua, oblonga; perist. simplice, margine dextro antrorsum subarcuato.*

Long. $9\frac{1}{2}$, diam. $2\frac{3}{4}$ mill.

5. SPIRAXIS DUBIA, Pfr. *Sp. testa turrato-oblonga, solidula, plicis confertis, validis, obtusis munita, nitidula, corneo-albida, strigis castaneis in medio anfr. ultimi evanescentibus irregulariter picta, subvaricosa; spira elongata, apice acuta; anfr. 9 convexiusculis, ultimo $\frac{1}{3}$ longitudinis non attingente; lamina columellari tenui, torta, ad basin apertura subverticali, subrhombeam canalem formante; perist. simplice, marginibus callo tenui junctis, dextro antrorsum leviter arcuato, basi recedente.*

Long. $9\frac{1}{2}$, diam. fere $4\frac{1}{2}$ mill.

6. SPIRAXIS BICONICA, Pfr. *Sp. testa subfusiformi, utrinque conico-attenuata, solidula, lævigata, nitida, pallide rubentiornea; spira conica, acutiuscula; sutura marginata; anfr. 7 vix convexiusculis, ultimo spiram paulo superante, basi valde attenuato; lamina columellari callosa, torta, non truncata; apertura subverticali, angustissima, acuminato-oblonga; perist. simplice, margine dextro valde antrorsum arcuato.*

Long. $13\frac{1}{2}$, diam. 6 mill.

7. SPIRAXIS CATENATA, Pfr. *Sp. testa subfusiformi-oblonga, solidula, nitida, irregulariter striatula, corneo-lutescente, fascia castanea suturali, alteraque maculatim interrupta supra medium anfr. ultimi ornata; spira conica, obtusula; anfr. 6 modice convexis, ultimo spira paulo longiore, basi subattenuato; lamina columellari callosa, torta, non truncata; apertura verticali, angusta, acuminata, sinuato-semiovali; perist. simplice, margine dextro superne sinuoso, tum antrorsum arcuato.*

Long. 11, diam. 4 mill.

8. SPIRAXIS OBLONGA, Pfr. *Sp. testa oblonga, solidula, lævigata, nitida, cornea; spira elongato-conica, apice obtusa; sutura levi, late marginata; anfr. 5 planis, ultimo spiram vix superante, basi minime attenuato; lamina columellari compressa, alte torta, basi non truncata; apertura verticali, an-*

guste ovali, longe acuminata; perist. simplice, margine dextro leviter antrorsum arcuato.
 Long. $9\frac{2}{3}$, diam. $4\frac{1}{2}$ mill.

9. SPIRAXIS PARVULA, Pfr. *Sp. testa subfusiformi-oblonga, tenui, lineis impressis irregulariter notata, nitida, pellucida, cornea, obsolete rufo-strigata; spira conica, acutiuscula; sutura rufo-marginata; anfr. 6 convexiusculis, ultimo $\frac{4}{7}$ longitudinis formante, basi attenuato; lamina columellari subincrasata, torta, non truncata; apertura anguste semiovali, longe acuminata; perist. simplice, margine dextro valde antrorsum arcuato.*

Long. 8, diam. vix 4 mill.

10. ACHATINA CHIAPENSIS, Pfr. *A. testa cylindraceo-turrita, solidula, conferte plicato-striata, nitida, pellucida, cerea; spira gracili, apice obtusula; sutura subcrenulata marginata; anfr. 9-10 convexis, ultimo $\frac{1}{5}$ longitudinis subæquante, basi rotundato; columella subcallosa, strictiuscula, basi oblique truncata; apertura subverticali, tetragono-ovali; perist. simplice, recto.*

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

11. ACHATINA TRYPANODES, Pfr. *A. testa cylindraceo-turrita, solidula, conferte plicata, nitidula, subdiaphana, albido-cerea; spira subregulariter attenuata, obtusula; sutura subcrenulata; anfr. 12, superis perconvexis, sequentibus planioribus, ultimo $\frac{1}{5}$ longitudinis vix æquante, basi rotundato; columella brevi, leviter arcuata, oblique truncata; apertura subobliqua, elliptico-ovali; perist. simplice, margine dextro leviter antrorsum arcuato.*

Long. 13, diam. 3 mill.

12. ACHATINA (OLEACINA) PULCHELLA, Pfr. *A. testa oblonga, tenuiuscula, sublevigata (sub lente arcuatim et irregulariter striatula), nitida, corneo-albida, obsolete luteo-strigata; spira convexo-conica, acutiuscula; sutura anguste marginata; anfr. 6 modice convexis, ultimo $\frac{2}{3}$ longitudinis vix æquante, basi subattenuato; columella substricta, anguste truncata; apertura verticali, sinuato-semiovali, longe acuminata; perist. simplice, margine dextro antrorsum vix dilatato.*

Long. $10\frac{1}{2}$, diam. $3\frac{3}{4}$ mill.

13. ACHATINA (OLEACINA) GHIESBREGHTI, Pfr. *A. testa fusiformi, tenera longitudinaliter conferte plicata, striis tenuissimis undique decussata, sub epidermide pallide fulva albida; spira concaviusculo-conica, apice obtusa; sutura crenulato-filomarginata; anfr. 7 convexiusculis, ultimo spiram paulo superante, superne turgido, basi valde attenuato; columella ad basin aperturae transverse truncata, prope basin plica obliqua*

munita; apertura angusta, acuminato-semiovali; perist. simplice, rufulo-limbato.
Long. 52, diam. 19 mill.

14. *CYLINDRELLA GHIESBREGHTI*, Pfr. (Pl. XXXVI. f. 1.) *C. testa arcuato-rimata, cylindraceo-turrita, truncata, solida, nigro-fusca; spira sensim attenuata, torte truncata; anfr. superst. 10-11 vix convexiusculis, superis conferte striatis, inferioribus leviter flexuose plicatis, ultimo antice soluto, striato, dorso angulato, infra medium obtuse carinato; apertura obliqua, subangulato-ovali, basi subeffusa, intus plica valida, compressa columellæ coarctata; perist. continuo, flexuoso, albido, undique breviter reflexo.*

Long. 82, diam. 22 mill.

β. *Testa tenui, cinnamomea, anfr. superst. 13-16.*

15. *CYLINDRELLA TURRIS*, Pfr. (Pl. XXXVI. f. 2.) *C. testa profunde subangulato-rimata, cylindraceo-turrita, truncata, tenui, confertissime subarcuato-striata, diaphana, oleoso-micante, rufa vel fulvida; spira sursum valde attenuata, magis minusve truncata; anfr. superst. 18-24 subplanulatis, ultimo antice soluto, dorso et basi carinato, medio angulato; apertura parum obliqua, rhombeo-ovali, plica levi columellæ basi canaliculata; perist. continuo, albo, undique expanso et reflexiusculo.*

Long. 68-72, diam. 14 mill.

16. *CYLINDRELLA CLAVA*, Pfr. (Pl. XXXVI. f. 3.) *C. testa profunde arcuato-rimata, turricto-cylindracea, truncata, tenuiuscula, confertim arcuato-striata, diaphana, parum nitida, fulva; spira sursum parum attenuata, latiuscule truncata; anfr. superst. 16-21 modice convexis, ultimo breviter soluto, dorso et basi carinato, latere filocarinato; apertura rhombeo-ovali, plica levi profunda columellæ coarctata, basi canaliculata; perist. continuo, albo, undique expanso et reflexiusculo.*

Long. 42-57, diam. 9-10 mill.

17. *HELICINA CHIAPENSIS*, Pfr. *H. testa globoso-turbinata, tenui, striatula et sub lente magis minusve distincte malleata, rubello-cornea, obsolete saturatius fasciata; spira turbinata, acuta; anfr. 6 convexiusculis, ultimo spiram æquante, periphæria obsolete subangulato; columella brevi, antrorsum in denticulum desinente, superne callum crassiusculum, circumscriptum emittente; apertura obliqua, acuminato-subovali; perist. albo, late expanso, ad insertiones angustato.—Operc. tenue, nigro-purpurascens, nucleo pallido.*

Diam. maj. 12, min. 10, alt. 9 mill.

18. *HELICINA BREVILABRIS*, Pfr. *H. testa globoso-turbinata, solidula, striatula, striis spiralibus confertis sub lente decusata, parum nitida, fulvida vel lutescente, interdum fascia 1 rubra cincta; spira convexo-conica, acuta; anfr. 5 vix con-*

reviusculus, ultimo rotundato, spira brevior; columella leviter arcuata, basi subsimplice, callum emittente tenuem, diffusum; apertura obliqua, fere semicirculari; perist. undique brevissime expanso.

Diam. maj. 7, min. 6, alt. 5 mill.

19. *HELICINA GHIESBREGHTI*, Pfr. *H. testa conoidea, solidula, acute carinata, striis incrementi et antrorsum descendentes sub lente decussatula, sulcisque spiralibus remotis sculpta, pallide lutea, ad suturam et carinam albo-fasciata; spira convexo-conoidea, submucronata; anfr. 5½ vix convexiusculis, ultimo utrinque convexiore; columella brevi, superne impressa, basi tuberculata, callum emittente nitidum, diffusum; apertura perobliqua, fere triangulari; perist. calloso, late expanso et reflexiusculo, ad carinam subrostrato.—Operc. solidulum, nigro-castaneum.*

Diam. maj. 19½, min. 16, alt. 10 mill.

4. DESCRIPTIONS OF EIGHTEEN NEW SPECIES OF LAND-SHELLS COLLECTED ON THE ADMIRALTY ISLANDS, FROM THE COLLECTION OF MR. H. CUMING. BY DR. L. PFEIFFER.

(Mollusca, Pl. XXXVI.)

1. *HELIX META*, Pfr. (Pl. XXXVI. f. 4, 5.) *H. testa subobtecte perforata, coniformi, tenuiuscula, vix striatula, nitida, coloribus varia; spira turbinata, acutiuscula; anfr. 6-6½ convexiusculis, ultimo infra medium obtuse subangulato, basi modice convexo; apertura diagonali, rhombeo-ovali; perist. reflexiusculo, margine dextro subflexuoso, basali reflexo, cum columellari subverticali, triangulatim supra perforationem reflexo, angulum indistinctum formante.*

Diam. maj. 23, min. 20, alt. 26 mill.

a. *Unicolor vitrina, perist. albo.*

β. *Citrina, fascia suturali et vitta purpurascenti-nigra pone peristoma nigro-violaceum ornata.*

γ. *Nigra, fascia 1 suturali pallida ornata, perist. nigro.*

2. *HELIX PLAGIOSTOMA*, Pfr. *H. testa oblique umbilicata, trochiformi, tenuiuscula, leviter striata, nitida, fulva; spira conica, acutiuscula; sutura submarginata; anfr. 6 convexiusculis, ultimo antice vix descendente, carinato, basi planiusculo; apertura perobliqua, subrhombea; perist. simplice, marginibus convergentibus, dextro late expanso, antrorsum arcuato, basali reflexo, cum columellari triangulatim dilatato, libero, umbilicum non claudente angulum obtusum formante.*

Diam. maj. 23½, min. 19, alt. 21 mill.

3. *HELIX MAJUSCULA*, Pfr. *H. testa umbilicata, depressa, suborbiculata, solidula, oblique striata et irregulariter malleata,*

13. 11. 1958
lectotype

6. 11. 1958
lectotype