2. AN ENUMERATION OF SPECIES OF RECENT SHELLS, RECEIVED BY W. J. HAMILTON, ESQ., FROM BORNEO, IN NOVEMBER 1850, WITH DESCRIPTIONS OF THE NEW SPECIES. BY W. METCALFE.

1. *HELIX BROOKEI*, Adams and Reeve, Zoology of the Voyage of the Samarang, Mollusca, p. 60. pl. 15. fig. 4 *a, b*.
2. *HELIX VITTATA*, Adams and Reeve, Zool. of the Samarang, Mollusca, p. 60. pl. 15. fig. 7 *a, b, c*.

This species, having been previously described by Mr. Benson, in the 'Magazine of Natural History,' under the name of *H. reglis*, ought to retain that name.

In addition to the variety figured in the Mollusca of the Samarang, Mr. Hamilton received two other varieties, in which the pale green bands are wanting, the brown colour more or less predominating, with bands of yellowish brown, and a brown circle surrounding the umbilicus.

3. *HELIX SCHUMACHERIANA*, Pfeiffer.

4. *HELIX RESPLENDENS*, Philippi in Zeitschr. f. Malak. 1846, p. 192.

5. *HELIX NASUTA*, nobis. *H. testâ subdiscoidâ, sinistrorsâ, carinatâ, angustè perforatâ, tenuissimâ, lineis incrementi et spiralibus confertis subtilissimè decussatâ, pellucidâ, hyalinâ; lined angustâ pallidè brunneâ ad carinam ornatâ; spirâ subconicâ; anfractibus 5½ planulatis, ultimo acutissimè carinato, subtus nitescente; aperturâ subrhomboidâ, ad angulum exteriorem valdè productâ et coarctatâ; peristomate simplici, tenui, margine superiore vix reflexo, basali anticè reflexiore, umbilicum subtegente.*

Long. $1\frac{4}{10}$; lat. $1\frac{1}{10}$; alt. $\frac{5}{10}$ unc.

This elegant species is covered with a thin epidermis, of a pale straw colour, under which the shell is milky white. It bears some analogy to *H. Tayloriana* (Adams and Reeve, Zool. of the Samarang, Mollusca, pl. 15. fig. 2 *a, b*), but the projection at the extremity of the aperture is much more acute, and the shell is of a more gelatinous texture: it differs also in being sinistral.

6. *HELIX GLUTINOSA*, nobis. *H. testâ orbiculato-convexâ, angustè perforatâ, tenui, nitidissimâ, diaphanâ, pallidè brunneâ, carinatâ; supra carinam fuscâ, infraque lined angustâ flavescente, ornatâ; spirâ conoidâ, obtusâ; anfractibus 5 parum convexis; ad carinam supra infraque lined impressâ circulari, striisque numerosissimis transversis notatâ; peristomate simplici, acuto, margine columellari vix reflexo.*

Long. $1\frac{1}{10}$; lat. 1; alt. $\frac{6}{10}$ unc.

A bright shell, resembling a thin film of glue, with a keel of a darker shade; slightly indented above and below the keel, the in-

dentation elegantly crossed with slight striæ, the effect of which, as well as the darker line, is partially visible throughout the sutures.

7. *HELIX CONICOIDES*, nobis. *H. testâ imperforatâ, trochiformi, acutè carinatâ, tenui, pellucidâ, luteo-cornedâ; spiraliter leviter striatâ, striis ad suturam majoribus, confertioribus; apice mamillari; anfractibus 7, superioribus subconvexis, duobus ultimis planulatis, ultimo subtus convexo, nitido, ad carinam et in medio depresso; aperturâ trapeziformi, subtus arcuatâ; peristomate simplici, acuto, subtus flexuoso, marginibus callo tenui junctis.*

Long. $\frac{7}{10}$; lat. $\frac{6}{10}$; alt. $\frac{4}{10}$ unc.

8. *BULIMUS CITRINUS*, Bruguière; Reeve, Conch. Icon. Bul. pl. 31. fig. 187 a.

9. *BULIMUS CHLORIS*, Reeve, Conch. Icon. Bul. pl. 37. fig. 223.

10. *CYCLOSTOMA BORNEENSIS*, nobis. *C. testâ suborbiculari, depresso-conoidedâ, acuminatâ, albidâ, fusco-variegatâ, maculis ad suturam, cinguloque infra medium fusco ornatâ; striis obliquis minutis, aliisque circularibus minutissimis impressâ; anfractibus quinque planiusculis, carinatis; ultimo magno, margine acutè carinato, circa umbilicum obtusè angulato; aperturâ subcirculari; peritremate albo, reflexo; supra productiore, subtus reflexo, ad columellam subsinuato; umbilico magno, profundo; operculo corneo, tenui.*

Long. $1\frac{6}{10}$; lat. $1\frac{3}{10}$; alt. $\frac{9}{10}$ unc.

Varietas minor, magnitudine solum diversa.

Shell bearing some characters in common with both *C. aquilum*, Sow., and *C. acutimarginatum*, Sow.; but having a more depressed spire, and flatter whorls than either of those species.

11. *CYCLOSTOMA*, apparently *C. parvum*, Sow. Thes. Conch. Cycl. fig. 254, 255.

12. *CYCLOSTOMA UNDATUM*, nobis. *C. testâ globoso-pyramidalî, tenui, pellucidâ, albâ, lineis hyalinis undatis decurrentibus ornatâ, tenuiter striatâ; anfractibus 6, parum rotundatis, primis conicis regulariter crescentibus; ultimo magno, obtusè carinato; aperturâ circulari, supernè angulatâ; peritremate lato, expanso, vix nisi ad columellam reflexo; suturis mediocribus; umbilico parvo.*

Long. $\frac{6}{10}$; lat. $\frac{5}{10}$; alt. $\frac{6}{10}$ unc.

This species belongs to the division of the genus of which *C. læve*, Gray, may be considered the type.

13. *CYCLOSTOMA TENUILABIATUM*, nobis. *C. testâ discoidedâ, spirâ depressâ, planâ, colore pallido, supernè castaneo-maculatâ et undulatâ; epidermide luteo-castaneâ, indutâ; anfractibus 5 rotundatis, 4 primis lævibus, ultimo lineis impressis irregularibus ruguloso; suturâ impressâ; aperturâ circulari; peritremate duplici; interno simplici, supernè emarginato; ex-*

terno tenui, lato, planiusculo, supra ascendente, fornicato, dein compresso; umbilico patulo; anfractibus intus distinctis.

Long. $1\frac{1}{10}$; lat. $\frac{8}{10}$; alt. $\frac{3}{10}$ unc.

Belonging to the genus *Pterocyclos* of Benson.

14. *CYCLOSTOMA BICILIATUM*. *Pterocyclos biciliatum*, Mousson, Land- und Süss. Moll. von Java, p. 49. t. 20. fig. 9.

Several individuals of this species having been received, its locality is thus fixed. It is observable that the complete shell, which was not known to Mousson, exhibits a tubular spiracle near the aperture, similar to that apparent in *C. spiraculum*, Sow.; also, that the aperture is circular, depressed, with the peritreme white, expanded, slightly reflected, and at the upper part faintly undulated.

15. *SCARABUS PLICATUS*, Fer. var. *major*.

This variety, in place of the usual purple colour of the shell, exhibits a deep yellow ground, with four broad bands of dark brown colour.

16. *SCARABUS BORNEENSIS*, A. Adams.

17. *AURICULA SUBNODOSA*, nobis. *A. testâ ovato-oblongâ, crassâ, albâ, epidermide castaneo-fuscâ, infra suturas decussatim granosâ, medio lævi, ad basim striis decussatâ; anfractibus convexiusculis, suturis distinctis, subcrenulatis; anfractu ultimo supernè longitudinaliter plicato-subnodoso; aperturâ medio paululum angustatâ; columellâ biplicatâ.*

Long. $2\frac{4}{10}$; lat. $1\frac{3}{10}$ unc.

A species distinguishable from *A. Midæ* by the convexity of the upper whorls and the smoothness of their lower halves, the depth of the sutures, and the longitudinal nodulous folds which surround the upper part of the final whorl: the aperture is also proportionally wider than in *A. Midæ*. In the single specimen received, the columellar lip has an interior protuberance above the upper fold.

18. *AURICULA POLITA*, nobis. *A. testâ ovato-oblongâ, basi angustiore, spirâ brevi; epidermide castaneo-fuscâ, nitidâ; striis numerosis minutissimè granulosis circumdatâ, granis superius distinctioribus; aperturâ medio coarctatâ; columellâ triplicatâ, plicâ infimâ lineari.*

Long. $1\frac{6}{10}$; lat. $\frac{8}{10}$ unc.

Although the characters of the aperture resemble those of *A. Judæ*, the form of the shell differs entirely in its greater breadth, and in the shortness of the spire.

19. *AURICULA FELIS*, Lam.

20. *AURICULA MUSTELINA*, Desh.

21. *NERITINA CREPIDULARIA*, Lam. Conch. Ill. fig. 25.

22. *NERITINA BECKII*, Reclus, Thes. Conch. fig. 13.

23. *NERITINA PIPERINA*, Chemn. Thes. Conch. fig. 166, 167.

24. *NERITINA DUBIA*, Chemn. Thes. Conch. fig. 81-88.

25. *MELANIA CIRCUMSTRIATA*, nobis. *M. testâ elongatâ, turritâ, solidâ, fusco-viridî; anfractibus convexiusculis, infra suturam paululum constrictis; superioribus striis 6 transversis elevatis, plicisque 8 majoribus longitudinalibus ornatis; ultimo striis 13; aperturâ ovali-oblongâ, basi dilatâ, superius acutè angulatâ, et ferè rimatâ, intus albidâ; peritremate sinuato, columellâ callosâ.*

Long. $2\frac{6}{10}$; lat. $\frac{8}{10}$ unc.

26. *MELANIA SUBSUTURALIS*, nobis. *M. testâ turritâ, fusco-viridî, lineis castaneis longitudinalibus obliquis variegatâ; anfractibus ferè planis, quorum superiores striis elevatis perpauca validis, inferiores pluribus minoribus inæqualibus ornati; ultimo ad basim crebristriato; suturâ distinctâ, excavatâ; aperturâ ovali, supernè angulatâ, intus albido-cærulescente; peritremate acuto, sinuato, extus effuso.*

Long. $1\frac{4}{10}$; lat. $\frac{8}{10}$ unc.

27. *PALUDINA HAMILTONI*, nobis. *P. testâ ovato-conicâ, tenui, perforatâ, viridî, concolore; striis transversis undulatis, aliisque longitudinalibus tenuissimè decussatâ; anfractibus 5 rotundatis, superioribus ætate erosis; suturâ impressâ; aperturâ ovali, supra angulatâ, intus cærulescente, margine paululum incrassato, albido; peristomate acuto, lineâ tenui nigrâ circumdato.*

Long. $\frac{9}{10}$; lat. $\frac{6}{10}$ unc.

The Bornean specimens being scarcely adult, the description is drawn up from individuals in my cabinet, which have long been there without any locality assigned.—W. M.

28. *LITTORINA SCABRA*. *Helix* sc., Linn.

29. *LITTORINA MELANOSTOMA*, Gray, Zool. of Beechey's Voy.

30. *LITTORINA ALBICANS*, nobis. *L. testâ ovato-oblongâ, acuminatâ, tenui, albidâ, apice lævi, nitente; anfractibus 7 vel 8, quorum 5 ultimi striis numerosis paulatim crescentibus ornati; ultimus rotundatus, ætate varicosus, striâ unicâ majore, quasi carinatus, striis ad basim minoribus circumdato; aperturâ rotundato-lunari, lacteâ; peristomate subreflexo.*

Long. $\frac{7}{10}$; lat. $\frac{4}{10}$ unc.

A delicate species, of a milk-white hue, the older specimens having many varices produced by the previous reflexions of the outer lip.

31. *CERITHIUM OBTUSUM*, Lam.; Zool. of the Samarang, Moll. pl. 13. fig. 3.

32. *CERITHIUM UNICARINATUM*, nobis. *C. testâ turritâ, tenui, apice truncato, hinc inde varicosâ, cinerè, longitudinaliter plicatâ, interstitiis longitudinaliter striato-rugosis; suturâ parum impressâ; anfractibus vix rotundatis, regulariter crescentibus; ultimo acutè carinato, infra carinam crebristriato; aperturâ*

mediocri subfusca; columellâ rectâ; peritremate modicè reflexo, albescente.

Long. $1\frac{6}{10}$; lat. $\frac{5}{10}$ unc.

33. AMPULLARIA, probably *A. Celebensis*, Quoy, Voy. de l'Astr. pl. 57. fig. 1-4.

34. NATICA MACULOSA, Lam. *pellis-tigrina*, Chem.

35. NOVACULINA OLIVACEA, nobis. *N. testâ oblongâ, valdè inæquilaterali, epidermide olivaceâ, ad extremitates fuscescente, indutâ; natibus erosis; antèrius rotundatâ, posterius angulato-rotundatâ; margine superiore ferè recto, posticè paululum descendente, ventrali medio subcompresso; intus albâ, dentibus lamellatis duobus recurvatis in utrâque valvâ, posteriore bifido.*

Long. $\frac{2}{10}$; lat. $3\frac{3}{10}$ unc.

A large example of this species, in the Collection of H. Cuming, Esq., exhibits a character which will probably be found generic; namely, a shelly protuberance in each valve, attached to the interior ligament at nearly its hinder extremity. These shelly substances have not, that I am aware, hitherto been noticed. It is probable that they become detached in most specimens by the removal of the animal.

36. CYRENA TRIANGULARIS, nobis. *C. testâ trigonâ, solidiusculâ, epidermide fusco-virescente, transversim striatâ, striis marginalibus lateralibusque eminentioribus, sulco ab umbone ad marginem posteriorem leviter impressâ; margine antico descendente, vix excavato, angulo anteriore rotundato; margine superiore subrotundato, posticè ferè biangulato, propter sulcum dorsalem subsinuato; intus lacteâ, margine continuo nitentiore; dentibus cardinalibus in utrâque valvâ tribus, duobus bifidis; dentibus lateralibus brevibus, tenuissimè rugosis, haud striatis.*

Long. 3; lat. $3\frac{1}{10}$; alt. $1\frac{8}{10}$ unc.

The characters of this shell bear some resemblance to *C. Sumatrensis*, Sow. Gen.; but on comparison with the type of that species, now in the Cabinet of Sylvanus Hanley, Esq., the present is found to differ materially, in its triangular outline, as well as in the characteristic furrow from the umbo to the posterior margin, affecting the curvature of the posterior angle, and producing a slight sinuosity in the margin.

37. UNIO.

38. UNIO.

I am unwilling to describe as new these two species of the genus *Unio*, from want of acquaintance with the great American collections of the genus.

Although no letter accompanied this box of shells, Mr. Hamilton presumes that they have been sent to him by his friend Sir J. Brooke, Rajah of Sarawak. The remittance is undoubtedly from Borneo.