MONOGRAPH
OF THE OXUS
BULIMUS.

The month's author, if it will please you,
May open up, who will, your modest breast,
To nothing but that pure and perfect soul—
Wheat.
MONOGRAPH

OF THE GENUS

BULIMUS.

"The fertile bosom of the earth gives suck
To myriads, who still grow beneath her care,
Rewarding her with their pure perfectness."—Shelley.
BULIMUS.

PLATE I.

Gemma BULIMUS, Lamarck.

Testa ovata, vel oblonga, vel turrita, anfractibus nunc perpunctis, ventricosis, nunc plurisimis, contractis, aut fragilibus et sepe translucidis, aut crassiusculis, epidermide interdum duplici induitis; columella recta, interdum uniplicata, basi nonnumquam truncata; aperture nonnumquam dentata,plerumque integrâ, marginibus disjunctis, labro vel simplici, vel reflexo. Operculum nullum.

Shell ovate, oblong, or turreted, whorls sometimes very few and ventricose, sometimes many and contracted, either fragile and often transparent, or rather thick, covered with, sometimes, a double diaphanous epidermis; columella straight, sometimes one-plaited, never truncated at the base; aperture in some instances toothed, generally entire, with the margins disjoined, lip either simple or reflected.

The beautiful forms and varieties of shells produced by those air-breathing mollusks, which, under the generic appellation of Bulimus, constitute an important division of the great tribe of Snails, have become objects of especial interest to the conchologist, owing to the zeal with which a few enterprising scientific travellers have lately penetrated into tropical countries in pursuit of them. It is, however, to the productive exertions of Mr. Cuming that we are mainly indebted for the newer and more attractive subjects of the present monograph. The researches of this ardent naturalist in the arid plains on the west side of the Andes, in the dense woods of West Columbia and Central Americas, and, more recently, in the luxuriant open forests of the Philippine Islands, whilst they present an instructive contrast, exceed any result the most sanguine collector could have anticipated. In the dry and barren regions of Western Chili and Peru, the Bulimi are mostly small and of comparatively fragile structure; but in the beautiful islands of the Eastern Archipelago, where climate and vegetation combine to favour the growth of arboreal species, the genus is represented with prolific splendour. Mr. Cuming must have truly felt like one transported to the fabled garden of the Hesperides, when beholding the lofty trees of those sunny isles laden with snails of such magnificent proportions. Aladdin, in the Arabian tale, could not, surely, have contemplated the rich clusters of vari-coloured fruit in the garden of the African Magician with more astonishment, nor probably gathered it with more avidity.

"It was in 1836," relates Mr. Broderip, "that Mr. Cuming proceeded to the Philippine Islands by permission of the Queen Regent of Spain, and aided by powerful recommendations from her government, which opened to him the interior of the islands, and caused him to be received with a noble hospitality, equalled only by the warm interest which facilitated his pursuits wherever he arrived and made himself known." Species of which we had but an imperfect knowledge, in consequence of the bad condition in which a stray individual chanced to reach our cabinets, were found in luxuriant plenty, and many new kinds were discovered in their airy solitude in equal abundance. Had De Férussac, the enthusiastic admirer of this tribe, lived to see the glorious series of Bulini accumulated in the Cumingian collection in different stages of growth, and in the finest state of preservation, from the egg to the adult, he would have been indeed amazed. Sorry am I that the limits of the present work will not allow me to illustrate more than two, or occasionally three, of the typical varieties of each species, and of these but a single view.

The genus Bulimus, as restricted by Lamarck, comprehends an extremely natural group, though presenting important differences of growth and texture; and these variations are peculiarly local. In the Philippine Islands, as just described, the species are of large and rather solid growth with a remarkable hydrophanous epidermis, that is, one permeable by water or other evaporable fluid. On the barren hills of Lima and the sandy plains of Chili and Peru, they are mostly small and delicately formed; in Brazil, the species are remarkable for having the aperture in frequent instances denticulated; and in New Caledonia, Venezuela, New Grenada, and New Hebrides, they not uncommonly exhibit, with equal peculiarity, a plaited Auricula-like columella.

It is a curious feature in the Philippine species that the varieties of pattern, which constitute their chief ornament, reside only in the epidermis. The colours of the shell rarely describe any sort of configuration: they are mostly blended into a uniform tint, over which a fanciful pattern is produced by the epidermis forming a double porous membrane in some places, and a single one only in others, developed, moreover, with the same continuous regularity as the textile marking of a Volute or Cone. This phenomenon is easily detected by immersing the shell in water, when the light portion or upper porous
layer of epidermis becomes saturated, and the ground colour of the shell is seen through it; as the moisture evaporates, the epidermis resumes its light appearance. Sir David Brewster, in reply to a letter from Mr. Broderip on this subject, says: "It appears to me, from very careful observations, that the epidermis consists of two layers, and that it is only the upper layer which is porous wherever the pattern is white. These white or porous portions of the epidermis differ from the other parts of the upper layer only in having been deprived of, or in never having possessed, the element which gives transparency to the membrane; in the same manner as hydrophalous opal has become white, from the expulsion of its water of crystallization."

There is little variety in the animal of Bulimus: the Chilian species are mostly of a light colour, and a few in this and the Columbian district are spotted, some having a transparent shell through which the spots are visible. The Philippine species are, without exception, of a sombre olivaceous brown, and dwell in family groups, as it were, among the shady foliage of the branches. Out of a group of some dozen living specimens not more than three or four may be found in an adult state with the lip of the shell reflected. They may be dislodged by shaking the branches, but are chiefly disturbed by the heavy rains with which those islands are at times visited. Mr. Cuming preferred, however, to collect them in dry sunny weather, because he was sure of finding the objects of his search in their shady places of retreat. In the immense sandy tract on the west side of the Andes, the reverse of this condition of nature prevails. The Bulimi are here physically very distinct; some reside all the year round upon the numerous Cacti, but during the dry season, which lasts for several months, they mostly live in a state of torpor, enclosed within their shell by an epiphram, and buried in the sand or under stones. On the approach of the dews, they revive to a state of animation, and crawl about at night in quest of food.

In illustration of the remarkable drought that prevails in Northern Chili, and of its effect upon molluscan life, I am tempted to repeat, in brief, an anecdote related to me by Mr. Cuming. On the arrival of our friend at the Port of Copiapo in 1829, he discovered the beautiful Bulimus Broderipii in considerable numbers, in the fissures of the rocks that may be seen here and there in the sandy plains of that country. Finding a large proportion of them dead, with the soft parts entirely decomposed, he requested a solitary inhabitant of the place to collect as many specimens as he could pick out alive whilst he occupied himself with botanizing. Returning from his excursion, Mr. Cuming was greatly disappointed to find that among the quantity his Chilian collector had accumulated, there was scarcely one in a living state. Upon remonstrating with him for his inattention, the native replied: "Only wait till the dews come, and they will be all alive again." Mr. Cuming rejoined: "I suppose you mean when it rains." The man, however, in perfect astonishment inquired what he meant; though a sexagenarian, he had never heard of such a thing as rain.

The Bulimi vary in their mode of propagation: fragile species, with the lip of the shell simple, are mostly viviparous, whilst those with a reflected lip are oviparous. The arboreal species of the Philippines deposit their eggs in little clusters on the trees, between two leaves which the animal manages to curl up upon the other, so as to form a receptacle for their protection; and, so far as Mr. Cuming's observations go, they are all soft like snake's eggs, with the single exception of the B. Minidoroensis, in which instance the eggs are calcareous, deposited upon the leaf in parallel rows, each standing perpendicularly on end, attached at the base by a glutinous substance.

The habits of the Bulimi in the two widely remote countries explored by Mr. Cuming, having been treated of in the foregoing remarks, it only remains to speak of them in other parts. Turning to New Holland we are unexpectedly surprised to find that the genus is represented to an extremely limited extent. I am not aware of more than three species having been found in this wide expanse of country, although several fine Helices have been discovered; and in a region of which the Fauna and Flora exhibit so luxuriant and distinctive a character, the scarcity of a genus of so much importance in the Eastern Isles is remarkable. The same observation applies to New Zealand, from whence, so far as the interior of the islands of that group has been visited, no more than one or two species have been received. In Africa the Bulimi are almost as great strangers as in the localities just spoken of; throughout the whole extent of land yet explored of this vast continent, scarcely a dozen species have been obtained. The Bulimi are here replaced by Achatina. Such a phenomenon may also be observed in some of the islands of the Pacific: in the Sandwich Islands the Bulimi are replaced by the genus Achatinella, and in the Society Islands their place is occupied by the Partula. In the West Indies the genera Achatina and Glandina seem to prevail. Howsoever abundant is the genus Bulinus in most of the islands of the Eastern Archipelago, few species appear to inhabit the great territories of India and China. On the coast of Borneo a beautiful species was
recently discovered by Mr. Adams, of H.M.S. Samarang, by the accidental falling of a huge tree, in a woody islet situated between Banguay and Balambugan, but they are of rare occurrence in that locality. In Europe, where nature is exposed to the vicissitudes of a colder climate, the Bulini are mostly small and exhibit no brilliancy of colour. So also, in the extensive region of North America, where no more than a few insignificant species are known to exist. It is in the richly fertile and woody district of Columbia, that the genus Bulinus is represented with a magnificence little inferior to that of the Philippine Islands; here they are large enough and sufficiently abundant to be roasted and eaten by the aborigines as a frequent article of food. Several fine species, entirely new to science, have been collected in Venezuela and New Granada by Mr. Linden, an assiduous Botanical Traveller, only within the last twelvemonth, at an altitude of from 5000 to 8000 feet, and many more, no doubt, dwell in undisturbed solitude in the vast interior of this immense continent. It is extremely probable that a large portion of South America yet remains to be explored by the adventurous naturalist, where there is no doubt a fine expanse of forest country, grand in extent, rich in foliage, and possessing all the elements favourable to the growth and beauty of arboreal mollusks.

Species 1. (Mus. Cuming.)

Bulimus macrostoma. Bul. testá ovaali, ventricoso, spirá subabreviáta, anfractúnis sens, convético-tumídus, concentricè striátus, columellá basi subcontorta; purpúreo-fuocó, epidermíde hydropánda, in anfractu último unizónatá, íudítá; apertúra cæruleáscénti-albá, labró reflexó.

The wide-mouth Bulimus. Shell oval, ventricose, spire slightly abbreviated, whorls six in number, convexly tumid, concentrically striated, columella slightly twisted at the base; purple-brown, covered with a hydropaneous epidermis, marked with a single zone on the last whorl; aperture blueish white, lip reflected.


Hab. Sual, Province of Pangasinan, Island of Luzon, Philippines (on leaves of trees); Cuming.

This species approaches the B. pygogaster, it partakes of the same shades of colour, and the epidermis is characterised by a similar zone round the last whorl; it does not however exhibit the vacant patches beneath the sutures. The columella of B. macrostoma is slightly twisted, and the general form of the shell is eminently distinguished by its swollen egg-shaped growth.

Species 2. (Fig. a and b. Mus. Cuming.)


The oriental Bulimus. Shell somewhat pyramidal-ovate, whorls six in number, flatly convex, the last ventricose, columella straight; purple-black, epidermis sometimes simple, sometimes arranged in longitudinal streaks, aperture blueish white, columella pinkish purple.


Hab. Fig. a, Island of Ticao; Fig. b, Mount Isarog, Island of Luzon, Philippines (on leaves of trees); Cuming.

The examples of B. pygogaster selected for representation vary so materially in form, as well as in the arrangement of the epidermis, that one might consider them to belong to distinct species, were it not for the similarity in the structure and colouring of the aperture. In the specimens from Ticao, Fig. a, the shell is broader and more acutely ventricose at the base, and the epidermis is arranged in longitudinal streaks; in that from Luzon, Fig. b, the base is somewhat contracted, imparting a more pyramidal form to the shell, the apex is dark purple, and the epidermis is soft and velvety, uniformly distributed throughout without any description of pattern.

Species 3. (Mus. Cuming.)


The wooden Bulimus. Shell ovately conoid, very ventricose, whorls six in number, tumidly convex; columella straight; purple-black, epidermis marked with bands or lines on the last and sometimes the penultimate whorl; aperture blueish-white, columella livid purple.


Hab. Gattarang, Province of Cagayan, Island of Luzon, Philippines (on leaves of trees); Cuming.
This is the largest of the Philippine species, and that of the most ventricose proportions. The columella is of a livid blueish purple, and the epidermal pattern consists of a number of circular bands or lines, frequently extending around the last and penultimate whorls; the specimen figured, in which the bands are confined to the last whorl, is rather an exceptional variety.

Species 4. (Mus. Cuming.)

**Bulimus rufo-gaster.** Bul. testā ovato-conoidē, sub-ventricoso, anfractībus sensī, convexus, columellā sub-intortā; nigricante-purpurea, interdum rufescenta, epidermide basin versus unifasciātā, striis longitudinalibus nigricantibus, prope ad suturas latioribus, notātā, apertūrum colu[m]ellāque cernulescēnte-abīdīs.

**The red Bulimus.** Shell ovately conoid, somewhat ventricose, whors six in number, convex, columella somewhat twisted; blackish purple, sometimes reddish, epidermis marked towards the base with a single band, and with dark longitudinal streaks, which are broader near the sutures, aperture and columella bluish white.

_Hab._ Province of Baie, Island of Luzon (in dark and lofty forests); Cuming.

In this species the columella is slightly twisted, and of the same bluish white hue as the interior of the shell. The pattern of the epidermis exhibits a single band round the lower part of the last whorl, and a row of broad, short, interrupted streaks around the sutures. This last mentioned design I have not observed in any other species.

Species 5. (Mus. Cuming.)

**Bulimus Philippinensis.** Bul. testā ovato-conoidē, basi subplanulatā, anfractībus sensī, convexīs, ultīmo basin versūs subobscurō angulato; columellā leviter intortā; nigricantē-fusca, epidermide in strīgias oblīgā concentricīs, apertūrā cernulenicente-albā, columellā pallīdō rosāceo-purpurea[n]cente.

**The Philippine Bulimus.** Shell ovately conoid, somewhat flattened at the base, whors six in number, convex, last whorl somewhat obscurely angled towards the base; columella slightly twisted; blackish-brown, epidermis disposed in obliquely concentric streaks, aperture bluish white, columella pale pinkish purple.


_Hab._ Islands of Luzon and Marinduque, Philippines (on the leaves of trees); Cuming.

There is little to distinguish this species from the _B. pythogaster_; it has a somewhat angular inclination of growth around the lower part, but this is not a character to which much importance can be attached, seeing that the typical varieties above figured of that species present almost as great a difference of form.

Species 6. (Mus. Cuming.)

**Bulimus Reevei.** Bul. testā oblongo-ovātā, anfractībus sensī, tumidīsculīs, ultīmo ventricoso, effusō; interdum ustrīlato-fusca, epidermide in fasciās insignībūs laticulaeus remotus lineāque subtilīs, apertūrā cernulenicente-albā, columellā vis intortā, peritremate livido-purpuraceīntās.

**Reeve's Bulimus.** Shell oblong-ovate, whors six in number, rather swollen, last whorl ventricose and effused; rich burnt-brown, with the epidermis in remarkable rather broad bands and fine lines, aperture bluish white, columella scarcely twisted, and, together with the peritreme, of a livid purple hue.

_Cuming_, MSS., Mus. Cuming.


_Hab._ Luhban, Province of Tayabas, Island of Luzon, Philippines (on the leaves of trees); Cuming.

This is the first species of _Bulimus_, and I believe the first shell, which Mr. Cuming unpacked from his vast collection on his return from the Philippines, and, being present at this exciting moment, I shall not easily forget the impression caused by the sight of so superb an example of an arboreal Snail. The remarkable disposition of the epidermis was quite a matter of astonishment, nothing of the kind had been observed before, nor had any specimen of the _B. pythogaster_ been collected in a state of preservation by which this phenomenon could be understood.

Hab. Island of Bohol, Philippines (on the leaves of trees); Cuming.

The specimens of B. gilvus figured give a tolerable idea of the varieties of the species, which only affect the shell so far as the depth of colour and thickness of the epidermis are concerned. The last whorl exhibits an obscure band round the lower part, and the concentric striae are rather prominently developed, but there is no epidermal pattern or configuration. The livid-white peritreme and columella are rather a characteristic feature in the species. It appears to be confined to the Island of Bohol.

The B. gilvus, it will be observed, partakes much more of the character of Helix than the following, which Mr. Broderip refers to that genus according to the method of De Férussac.

Species 8. (Fig. a, b, and c. Mus. Cuming.)

BULIMUS DAPHNIS. Bul. testâ pyramidalâ ovata, anfractibus senis, convexis, plus minus ventricosis, aperturâ subcontractâ, columellâ subrectâ; nigricante-purpureâ apadicodâque, epidermide vel simplici, vel in striis longitudinalibus, vel in fasciis lineisque transversis; columellâ roseo-purpureâ, aperturâ ceruleo-albâ, peritreme migrante-purpureâ.

The Daphnis Bulimus. Shell pyramidal, ovate, whorls six in number, convex, more or less ventricose, aperture somewhat contracted, columella nearly straight; blackish purple or fawn colour, epidermis either simple or disposed in longitudinal streaks or transverse bands and lines, columella pinkish purple, aperture blueish white, peritreme blackish purple.

BULIMUS SOLIDUS. Bul. testâ oblongâ, subelongatâ, anfractibus septenis, ultimo basis versus obsolentissimâ angulatâ; columellâ subincurvâ; nigricante-purpureâ, epidermide in striis longitudinalibus, confertis, irregularibus, aperturâ ceruleo-albâ, peritreme migrante-purpureâ.

The solid Bulimus. Shell oblong, somewhat elongated, whorls seven in number, the last very obliquely angled towards the base; columella slightly twisted; blackish-purple, epidermis in close-set irregular longitudinal streaks, aperture blueish, peritreme blackish-purple.


Hab. San Juan, Province of Cagayan, Island of Luzon, Philippines (on leaves of trees); Cuming.

This species, of which Mr. Cuming collected only a few specimens, is of an elongately oblong form, and composed of one more whorl than any of the preceding; it is of rather dark colour, and the longitudinal streaks of epidermis are very irregular and close-set. There is a variety in which the last whorl is more inflated and has a whitish band.

The name devoted to this species is rather an inappropriate one, the shell being of no more solid growth than its congers.
BULIMUS.—PLATE II.

Species 10. (Mus. Cuming.)

*Bulimus mus.* Bul. testa ovata, crassiuscula, spiræ obtusa, anfractibus quinque, subrotundatis, columella sub-intortæ; intemæ castaneæ, epidermide albicante, lineis subtilius concentricis hic illic interruptæ; columella lacticæ, peritremate intemæ castaneæ.

The mouse *Bulimus.* Shell ovate, rather thick, spire obtuse, whorls five in number, somewhat rounded, columella slightly twisted; deep chestnut, epidermis whitish, interrupted here and there with fine lines, columella milk-white, peritreme deep chestnut.

*Hab.* Banang, Province of Pangasinan, Island of Luzon (on trees); Cuming.

The preceding species, it may be observed, consists of a whorl more than its congener from the Philippine Islands; this, on the contrary, is shorter and composed of a whorl less. It is of an extremely rich chestnut colour, covered by an epidermis delicately white, and only interrupted here and there by fine lines. The columella does not partake of the colour of the peritreme, being of a clear milk-white.
Species 11. (Fig. a and b. Mus. Cuming.)

**Bulimus Woodianus.** Bul. testa ovato-conoida, basi peculiariter concavae, anfractibus quinis substrutundis, suturis impressis, columna latae vio intortae; ambit, epidermide lineaturn latum, nemorum nitidii indebat, anfractu ultimo ustulato-fusco tincto, conspicuu unifasciato, columna lata, rosacea-purpurascens, peritreme et circu columna lata interse nigrimente castaneis.

Wood's Bulimus. Shell ovately conoid, peculiarly concave at the base, whorls five in number, somewhat round, sutures impressed, columnella slightly twisted; white, covered with a very thin yellow shining epidermis, last whorl stained with burnt brown and conspicuously single banded, columnella pinkish purple, peritreme and around the columnella deep blackish chestnut.


This species is of a character singularly distinct from the rest of its congeners of the Philippine Isles. No pattern is discernible in the epidermis, which is merely a thin transparent horny layer, nor is there any colour in the shell until it approaches maturity. The specimen represented at Fig. 11. a is entirely colourless; that at 11. b has a burnt brown hue upon the last whorl, which is further distinguished by a dark band and intensely dark chestnut-stained peritreme.

Species 12. (Mus. Cuming.)

**Bulimus Juglans.** Bul. testa ovata, crassiuscula, anfractibus quinis, rotundato-limneis, oblique striatis, aperturâ subcontractâ, columna intorson arcata; interse rufo-castanea, epidermide teneaculâ, spiraliter lineata, apertura peritreme et columna livido-carunculentibus.

The Walnut Bulimus. Shell ovate, rather thick, whorls five in number, rotundately tumid, obliquely striated, aperture slightly contracted, columnella curved inwards; deep reddish chestnut, epidermis rather thin, spirally lineated, aperture peritreme and columnella pale livid blue.

**Pfeiffer,** Pro. Zool. Soc., 1842, p. 89. **Hab.** Mountains of Igarrotes, northern extremity of the Island of Luzon, Philippines (on leaves of trees); Cuming.

A rather scarce species of solid growth, and of a deep crimson brown colour. The aperture is somewhat contracted, and there is a peculiar twist in the columnella. The epidermis is rather slight, disposed in spiral lines.

Species 13. (Mus. Cuming.)

**Bulimus Faunus.** Bul. testa subpyramidalis-ovata, crassiuscula, anfractibus quinis, subconvexis, columna subarcata; castaneo-fusca, epidermide simplici, fumo-fusca, maculis paucis nigrimente castaneis, peritreme carunculentis-alba, columna lata, rosacea-purpurascens, peritreme nigrimente castaneis.

The Fawn Bulimus. Shell somewhat pyramidal ovate, rather thick, whorls six in number, slightly convex, columnella nearly straight; chestnut-brown, epidermis simple, smoky-brown, exhibiting a few blackish spots next the sutures, aperture bluish-white, columnella pinkish-purple, peritreme blackish.


Of a firm pyramidal growth, singularly characterized by a row of irregular small spots around the sutures.

Species 14. (Fig. a, b, c. Mus. Cuming.)

**Bulimus Ticaonicus.** Bul. testa subglobosa-ovata, apice obtusa, anfractibus quinis, rotundatis, columna subarcata; castaneo-rufa aut flavicantae, epidermide in flaccis striatis subdistantibus conspicue, aut simplici aut spiraliter lineata, columna lata, rosacea-purpurascens, peritreme purpureo-castanea, nonnunquam pallidâ.

The Ticao Bulimus. Shell somewhat globose ovate, obtuse at the apex, whorls five in number, rounded, columnella slightly arched; chestnut-red or pale yellow, with the epidermis in conspicuous, rather distinct flakes or streaks, or simple or spirally lineated, columnella pinkish-purple, peritreme purple-chestnut, sometimes pale.

**Helix (Choclostyla) Ticaonica,** Broderip, Pro. Zool. Soc. 1840. **Hab.** Island of Ticao, Philippines (in the woods); Cuming.

This species, like the _B. Daphnis_ of the Island of Zebu, is an extremely variable one, assuming numerous styles of pattern and colour, as may be noticed by the contrast afforded in the specimens selected for representation. All are, however, distinguished by their globose form, and by the important delicate pink colouring of the columnella.

April, 1848.
BULIMUS.

PLATE IV.

Species 15. (Mus. Cuming.)

BULIMUS MINDOROIENSIS. Bul. testa cylindrocco-oblonga, anfractibus senis, convexis, columnella subaperta; fusco-nigrantae ant rufescente, epidermide in striis conspicuis subdistantibus, apertura carulescente-alba, peritreme eftus, intenso fusco-nigrantae.

The MINDORO BULIMUS. Shell cylindrically oblong, whorls six in number, convex, columnella slightly arched; brownish black or reddish, with the epidermis in conspicuous, rather distant, longitudinal streaks, aperture bluish white, peritreme effused, deeply stained with brown-black.


Hab. Puerto Galero, Philippine Islands (on the leaves of trees); Cuming.

The epidermal pattern of this species is characteristic, consisting of numerous conspicuously marked longitudinal streaks, which in parts are somewhat distant from each other. The aperture in most of the species is comparatively rather small, and the lip in all is effused rather than reflected back.

I cannot quite agree in the varieties noted by Mr. Broderip, some of which are too nearly alike to make it worth while to mark a distinction, whilst there is one which appears to me of so different a character, that it should be regarded as another species, see Plate V. Sp. 29.[1]

Species 16. (Fig. a and b. Mus. Cuming.)

BULIMUS CHRYSALIDIFORMIS. Bul. testa cylindrocco-oblonga, medio ventricoso, anfractibus septenis, subplano-convexa, columnella subaperta, apertura parvisculata; intenso rufo-costanae, epidermide in fasciis latis, longitudinalibus, nudatis, vel flavescente, epidermide sub fasciis rufo-fusci infra suturas ecrinis tessellata, peritreme intenso costanae.

The CHRYSALIS-SHAPED BULIMUS. Shell cylindrically oblong, more ventricose in the middle, whorls seven in number, rather flaty convex, columnella slightly twisted inwards, aperture somewhat small; deep reddish chestnut colour, with the epidermis in rather broad longitudinal waved streaks, or yellowish, with the epidermis delicately tessellated upon a reddish brown band beneath the sutures, peritreme deep chestnut brown.


Hab. Fig. 16 a, Mansalai, Island of Mindoro. Fig. 16 b, Puerto Galero, Philippines (in dark forests of thick foliage, upon and beneath the leaves); Cuming.

The BULIMUS CHRYSALIDIFORMIS described by Mr. Sowerby, prior to Mr. Cuming’s voyage to the Philippine Islands, from a pale uncoated specimen, is mainly distinguished by its elongately cylindrical form, the aperture being comparatively rather small, and a little distorted from the twisting of the columnella. The yellow variety represented at Fig. 16 a, is very remarkable, and appears, at first sight, to differ materially from the type of the species, which approaches rather to B. MINDOROENSIS.

Species 17. (Mus. Cuming.)

BULIMUS NIMBOUS. Bul. testa pyramidalis-oblonga, spirae acuminatae, anfractibus septenis, convexis, columnella arcuata; intenso brunneae, epidermide in flocis latissimis subdistantibus nudatis, apertura carulescente-alba, peritreme brunneae.

The RAINY BULIMUS. Shell pyramidally oblong, spirally acuminated, whorls seven in number, convex, columnella arched; deep brown, with the epidermis in broad, rather distant, wavy flakes, aperture bluish white, peritreme brown.


Hab. Island of Negros (on the summits of the mountains); Cuming.

A fine dark brown species of a pyramidal acuminated form, with the epidermis disposed in light longitudinally waved flakes. Mr. Broderip’s variety d has always appeared to me so constantly distinct from this, that I propose to elevate it to the rank of a species, in compliment to my friend, Dr. Pfeiffer.

Species 18. (Mus. Cuming.)

BULIMUS PFEIFFERIANUS. Bul. testa oblongo-ovata, subventricosa, anfractibus senis, tumidiuscula, columnella subaperta; flavo-viridescens, epidermide in striis longitudinalibus undatis, columnella et apertura carulescente-alba, peritreme et parte circa columnellam, nigrantae-fusci.

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Fig. 15 cypae cum B. atque G. pati, ad eum.P. oppido H. qui potius ad sin.

meridiam ad septem.
Pfeiffer’s Bulimus. Shell oblong-ovate, rather ventricose, whorls six in number, somewhat swollen, columella slightly arched; pale yellowish green, with the epidermis in longitudinally waved streaks, columella and aperture bluish white, peritreme and the part round the columella blackish brown.

Bulimus nimbosus, var. d, Broderip.
Hab. Tankay, Island of Negros (on the branches); Cuming.

I have long regarded this shell in my own mind as a species distinct from B. nimbosus; it is composed of one whorl less, is constantly more ventricose, less pyramidally acuminated, and always distinguished by a pale yellowish-green cast of colour with a dark chestnut blotch, nearly black, around the columella, and there is a peculiarity also in the arrangement of the epidermis.

To Dr. Pfeiffer, of Cassel, I dedicate this beautiful species, trusting he will appreciate my desire to do him honour for the service he has rendered to conchological science by his laborious investigation of the great tribe of Helicidae of which the present genus forms a part.

Species 19. (Fig. a and b. Mus. Cuming.)


The Painter Bulimus. Shell acuminately oblong, whorls six in number, convex, columella nearly straight; rich brown, epidermis more or less white, leaving narrow longitudinally waved dark bands, which are sometimes interrupted, aperture bluish white, peritreme edged with blackish chestnut.

Broderip, Pro. Zool. Soc., 1840, p. 120.
Hab. Dingle, Province of Ilo Ilo, Island of Penang, Philippines (on the trees); Cuming.

A richly coloured species, with the epidermis so deposited as to leave a dark, longitudinal, zig-zag stripe at intervals, which is occasionally broken or otherwise interrupted, and has a striking appearance from the epidermis being of a thick, opake-white, satiny hue down one side. The aperture is of clear milky white, and the peritreme is peculiar in having the usual dark colouring matter quite at the edge.
BULIMUS.

PLATE V.

Species 20. (Fig. a and b. Mus. Cuming.)

Bulimus nobilis. Bul. testa acuminato-oblonga, anfractibus quinque sinuatis, subplano-convexis, suturis impressis, columella rectiusculata; virescence-flavida, epidermoide tenue, zonulas albas lineatæ, longitudinales, nunc distantes, nunc interruptræ, exhibentes, anfractu ultimo fusciæ angustæ nigricante-fusciæ parte inferiori cingulata, circa columellam nigricante, peritrame alba.

The noble Bulimus. Shell acuminately oblong, whorls five or six in number, somewhat flatly convex, sutures impressed, columella rather straight; greenish yellow; epidermis thin, exhibiting longitudinally sinuated opake white zones, sometimes interrupted, sometimes rather distant, last whorl with a narrow dark brown band round the lower part, blackish around the columella, peritreme white.

Hab. Mountains of Igharas, Island of Luzon, Philippines (on the trees); Cuming.

The markings of this beautiful species are similar to those of the B. fulgetrum; the epidermis being thin, excepting where it is disposed in striking lightning-like streaks, darting, so to speak, out of the sutures; in form the shell is constantly distinct, and it is further characterized by a conspicuous dark band.

Species 21. (Mus. Cuming.)

Bulimus electricus. Bul. testa subelongato-ovata, medio ventricosæ, spiræ acuminata, anfractibus semis, subplano-convexis, columella leviter intorta; livido-rufo, epidermoide tenuissima, strigis pallidis oblique unis, vallis irregularis, exhibente, apertura albida, peritreme rufo-fusciæ.

The electric Bulimus. Shell somewhat elongately ovate, more ventricose in the middle, spire acuminated, whorls six in number, rather flatly convex, columella slightly twisted; livid red, epidermis rather thin, exhibiting very irregular obliquely waved pale streaks, aperture whitish, peritreme reddish brown.

Bulimus Mindoroensis, var. k, Broderip.

Hab. Puerto Galero, Island of Mindoro, Philippines (on the leaves of trees); Cuming.

If any importance is to be attached to the character and pattern of the epidermis of these shells, there is certainly enough to distinguish this from the B. Mindoroensis.

The epidermis is of a soft, very slight texture, of a uniform reddish brown tint in which light streaks descend here and there from the sutures in very zigzag course; something as in B. fulgetrum but fainter; and, besides this, the shell is of a more acuminated growth, whilst the last whorl is larger and more effused.

Species 22. (Mus. Cuming.)


The two-coloured Bulimus. Shell pyramidal, whorls seven in number, slightly convex, columella slightly twisted; reddish-brown, green beneath, epidermis in rather broad longitudinal bands, peculiarly interrupted in the middle, and two-banded round the lower part, peritreme and columella deep black-brown.

Bulimus Alberti, Broderip.

Hab. Mount Isarog, Province of Camarines; and Calanan, Province of Baie, Island of Luzon, Philippines (on the trees); Cuming.

A truly beautiful species, remarkable for its pyramidal growth, and original display of colouring. None of the preceding species have any indication of the bright green which distinguishes the under portion of the body-whorl in this, and the epidermal pattern is equally peculiar.

The shell described by Mr. Broderip under the name of B. onyx appears to be only another state of this, inhabiting the same locality in more lofty situations in the trees. It should be observed that Mr. Cuming collected but two specimens, one in bad condition, the other of immature growth. They are of a singular pupiform shape, but are so nearly allied to the B. bicoloratus in other respects, that the species must be received with caution until further and better means of comparison can be obtained.

The honour intended by the dedication of this finest of the Philippine species, to be conferred on H.R.H. Prince Albert, whose interest in Conchology is handsomely testified by his patronage of the present work, was unco-
Fig. 20 = Bulm. ventricosus Hn. nr 78.
B. f. m. 1849, pg. 6
Fig. 21 = B. asperous Grutel. Hn. nr. 174
ibid.
Species 23. (Fig. a, b, and c. Mus. Cuming.)

Bulimus fulgorum. Bul. testa oblongo-ovata, subventricosa, quinqua annulata, columna vis arcuata; sutulato-fuscata et flavicante, epidermide in strigis albis opacis variis undatis, subdistantibus, periutreme alba.

The lightning-marked Bulimus. Shell oblong-ovate, somewhat ventricose, whorls five in number, last whorl rather large, columella slightly curved; burnt-brown or yellowish, with the epidermis in rather distant variously waved opaque white streaks, periventer white.


Hab. Island of Negros, Philippines (on the trees); Cuming.

Of all the species collected by Mr. Cuming at the Philippine Islands, this has, perhaps, most excited the admiration of amateurs. The electrical flashes, so to speak, of light satiny epidermis which descend from the sutures are peculiarly striking, and unlike anything that had been seen before. The ground colour of the shell varies from a rich burnt-brown to a pale lemon colour.
BULIMUS.

PLATE VI.

Species 24. (Fig. a and b. Mus. Cuming.)

Bulimus Guimaresensis. Bul. testa subacuminato-oblonga, anfractibus quinque, convexit; albâ, glabra, anfractibus faciâ fuscâ conspicuâ supra infragne einguilata, epidermide tenui nitidâ latae-olivaceâ indutâ.

THE GuIMARES Bulimus. Shell somewhat acuminate oblong, whors five in number, convex; white, smooth, whors encircled above and below by a conspicuous brown band, and covered by a thin shining yellowish olive epidermis.


Hab. Island of Guimaras, Philippines (on the trees); Cuming.

A well-defined though not a particularly striking shell, partaking of the character of B. ovordus and citrins. Fig. 24 a is the ordinary state of the species; the variety represented at Fig. 24 b is one of rare occurrence, in which the bands are unusually broad and dark coloured.

Species 25. (Mus. Cuming.)

Bulimus Frater. Bul. testâ subacuminato-oblonga, anfractibus quinque, convexit; rosaceo-albida, anfractuum parte inferiori zonulâ angustâ rufescence einguilata, epidermide tenui nitidâ rufescente-luteâ indutâ.

THE BROTHER Bulimus. Shell acuminate oblong, whors five in number, convex; pinkish-white, lower part of the whors encircled by a narrow reddish zone, covered by a thin shining reddish-yellow epidermis.


Hab. Island of Leyte, Philippines (on the leaves of trees); Cuming.

Dr. Pfeiffer is of opinion that this shell is the B. frater of De Ferussac, which is highly probable, although his figure of that species represents one of larger dimensions and devoid of the delicate rose colouring.

Species 26. (Fig. a and b. Mus. Cuming.)


THE BLOTCHED Bulimus. Shell acuminate oblong, mostly sinistral, whors six in number, concentrically striated, last whorl rather long; yellowish fawn colour, sometimes blotched and clouded with brown, sometimes unspeckled, ornamented here and there with a pink longitudinal line, sutures whitish, perimetre white, apex shining opaque white.


Hab. Province of Misamis, Philippines (on the trunks of trees); Cuming.

Dr. Pfeiffer has intimated his opinion that the B. maculiferus is a variety of the B. citrins. I cannot, however, agree with him in this; the species are very nearly allied but always distinct. The present is of a more elongated growth, and in all its varieties is characterized by the same pale ferruginous fawn colouring. The variety represented at Fig. 26 b is prettily distinguished by three or four narrow longitudinal zones of a delicate rose colour.

Species 27. (Fig. a and b. Mus. Cuming.)

Bulimus Smaragdinus. Bul. testâ oblongo-ovata, plus minusve ventricosa, anfractibus convexit, subtilissimâ oblîque striatis, suturis superfissors et cuniculatis; albâ, epidermide tenui cornâe nitidâ infra suturas indutâ; in anfractu ultimo smaragdis vel olivaceo-virescente, purpureo apice versus evanescentâ; perimetre interdum albâ, interdum pallido rosacea.

THE EMERALD-GREEN Bulimus. Shell oblong ovate, more or less ventricose, whors convex, very finely obliquely striated, sutures superficially channelled, white, covered beneath the sutures with a thin shining horny epidermis; bright emerald-green or olive-green on the last whorl, fading into purple towards the apex, perimetre sometimes white, sometimes light pink.


Hab. Surigao, Island of Mindanao, Philippines (on the leaves of trees); Cuming.

The accompanying figures of this bright coloured and delicate species represent extreme states of it, one being much more ventricose and of a lighter colour than the

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BULIMUS.—PLATE VI.

other. The chief peculiarity of the B. smaragdius consists in the nature of its epidermis, which, unlike that in most of the preceding Philippine species, exhibits no pattern, but contains all the colouring matter. The shell is pure white, and the beautiful emerald-green colour, so much to be admired, resides within the epidermis, which is of a thin shining horny character, commencing in a singular manner just beneath the sutures, and may be peeled away.

Species 28. (Mus. Cuming.)

Bulimus cincinniformis. Bul. testa subpyramidali-ovata, tenuiculda, anfractibus sexis, plano-convexis; albâ, anfractibus fasciis duabus distantibus, nigricantibus, epidermidis particulis notatis cingulatis, labro tenui, vis refleco.

The curl-shaped Bulimus. Shell somewhat pyramidal-ovate, rather thin, whorls six in number, flatly convex; white, whorls encircled with two distant black bands marked with particles of epidermis, lip thin, scarcely reflected.

Hab. Island of Luban, Philippines (on the trees); Cuming.


The Satyr Bulimus. Shell somewhat pupiform, whorls five in number, convex, columnella slightly twisted; purple-black, covered with a simple brown epidermis, aperture blueish white, columnella light flesh-purple, peritreme purple-black.

Hab. Island of Tablas, Philippines (on the leaves of trees); Cuming.

Mr. Cuming only obtained a few specimens of this species; it is of a dark purple-black hue without any epidermal pattern to attract particular attention.
BULIMUS.

PLATE VII.

Species 30. (Fig. a, b, c, and d. Mus. Cuming.)

BULIMUS CINNINUS. Bul. testâ ovato-pyramidali, tenui, subhyalinâ, anfractibus semis subrotundatis, columellâ subintortâ, labro simplici, vis reflexo; pallidâ rosacea, albidâ aut virescente, epidermide fuscâ basin versus sparsim maculâtâ.

THE CURL BULIMUS. Shell ovately pyramidal, thin, rather transparent, whorls six in number, somewhat rounded, columella slightly twisted, lip simple, scarcely reflected; pale pink, whitish or greenish, sparingly bespotted towards the base with dark brown epidermis.


Hab. Islands of Temple and Burias, Philippines (on the leaves of trees); Cuming.

A very delicate and extremely variable species, the epidermis of which is of so tenacious a character that it is rare to meet with specimens having any portion adhering. The colour of some is purple, of others light pink or pale green, and the shell has not unfrequently a pink columella.

Species 31. (Mus. Cuming.)

BULIMUS CARYPSO. Bul. testâ subpyramidali-ovatâ, diaphanâ, anfractibus semis convexis; columellâ peculiariter contortâ et truncatâ, labro tenui, vis reflexo; albidâ, fascia pallidâ olivaceo-luteâ, precisâ in anfracta ultimo, cingulâtâ; columellâ apice et peritremate roseo-purpureâ.

THE CALYPSO BULIMUS. Shell somewhat pyramidally ovate, diaphanous, whorls six in number, convex; columella peculiarly twisted and truncated, lip thin, but little reflected; whitish, encircled with pale olive yellow bands, especially round the last whorl, columella apex and peritreme rose-purple.


Hab. Tanbay, Isle of Negros, Philippines (in the woods); Cuming.

Only two specimens of this very delicate diaphanous species were collected; it is encircled by numerous faint olive-yellow bands, somewhat crowded towards the base, and the columella, peritreme, and first two whorls of the shell are of a deep rose-purple; there is, moreover, a dark purplish stripe around the columella.

It is a peculiarity in this species that the banded pattern does not reside in the epidermis, as in most of its congeneres, but in the shell, where it may be observed winding round the interior.

Species 32. (Mus. Cuming.)

BULIMUS VIRENS. Bul. testâ pyramidal-ovatâ, levissimâ, nitidâ, anfractibus septemis, subplano-convexis, ultimo inferiore obscure angulato; columellâ vis intortâ, labro subreflexo; alba, epidermide tenui virescente basin versus indutâ.

THE PALE GREEN BULIMUS. Shell pyramidal-ovate, rather smooth, shining, whorls seven in number, rather flatly convex, the last obscurely angled round the lower part; columella slightly twisted, lip but little reflected; white, covered with a thin epidermis which is of a pale green colour towards the base.


Hab. Island of Burias, Philippines (on leaves of trees); Cuming.

I cannot trace the resemblance which Dr. Pfeiffer notices between this shell and B. carinatus, Lea; the figure of that species in the Transactions of the Academy of Natural Sciences of Philadelphia, represents a shell belonging rather to that division of the genus which is characterised by a hydrophanous epidermis.

Species 33. (Mus. Cuming.)

BULIMUS HINDSI. Bul. testâ oblongo-ovatâ, anfractibus quinque convexis, columellâ subintortâ, labro reflexo; alba, anfractibus fasciis castaneis supra et infra cingulatis, epidermide tenui luteâ, parte circa columellam et peritremate purpureo-fuscâ.

HIND'S BULIMUS. Shell oblong-ovate, whorls convex, columella slightly twisted, lip reflected; white, whorls encircled above and below with a chestnut band, epidermis thin, yellow, peritreme and part around the columella purple-brown.

PFEIFFER, MSS. Mus. Cuming.

Hab. Tayabas, Island of Luzon, Philippines (on the leaves of trees); Cuming.

The general aspect of this shell is very simple, but it is not a species of common occurrence.

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Species 34. (Mus. Cuming.)

**Bulimus Romblonensis.** Bul. testá pyramidali-ovatá, anfractibus senis leviter convexis, striis transversis et obliquis subtíllissimé obscuré decussatis, columnála intortá; virecente-albá, glabrá, nítidá, anfractibus fasciá castaneá inferne cingulatá, epidermide tenui viridi-ventre-albá, glabrá, nitidá, anfractibus fasciá castaneá infeme cingulatá, parte circu columnánum nigricante-castaneá, columnála et peritremate albis.

The Romblon Bulimus. Shell pyramidally ovate, whorls slightly convex, obscurely decussated with very fine transverse and oblique striae, columella twisted; greenish-white, smooth, shining, whorls encircled round the lower part with a chestnut band, epidermis thin, greenish yellow, blackish chestnut around the columella, columella and peritreme white.


**Hab.** Island of Romblon, Philippines (on the trees); Cuming.

A bright shining species closely resembling a variety of *B. cincinvis*, not figured in the accompanying plate, which is sufficiently distinct in form to prevent their being confounded, the one for the other.

Species 35. (Mus. Cuming.)

**Bulimus subcarinatus.** Bul. testá conico-ovatá, sub-
BULIMUS.

SPECIES 36. (Mus. Cuming.)

Bulimus cameleopardalis. Bul. testa elongato-oblonga, spirae validi producta, anfractibus septem, plano-convexis, ultimo obscure carinato, columnellae arquatae, apertura parviscula; castaneo-flavicante, epidermide virgus longitudinalibus latiuclus conspicuous, vix undatas, prætermittente; peritremate purpureo-nigricante.

The CAMELEOPARD BULIMUS. Shell elongately oblong, spire much produced, whorls seven in number, flatty convex, the last obscurely keeled, columnella arched, aperture rather small; chestnut yellow, epidermis leaving rather broad conspicuous longitudinal stripes, scarcely waved, peritreme purple-black.


Hab. Sibonga, Island of Zebu, Philippines (on the leaves of bushes); Cuming.

Distinguished by its elongated dactylose form, and by the bold longitudinally striated pattern of the epidermis.

SPECIES 37. (Fig. a and b. Mus. Cuming.)

Bulimus Boholensis. Bul. testa subelongato-oblonga, anfractibus sex, leviter convexis, columnellae pressae; pallide castanea, apicum versus flavicante, epidermide maculae sparsae striagusque acute undatas, sepé angustas, numerosas, prætermittente, peritremate purpureo-nigricante.

The Bohol Bulimus. Shell somewhat elongately oblong, whorls six in number, slightly convex, columnella a little twisted; pale chestnut, yellowish towards the apex, epidermis leaving sharply zig-zag streaks, sometimes numerous and narrow, with scattered spots, peritreme purple-black.


Hab. Island of Bohol, Philippines (on leaves of trees); Cuming.

In general aspect this species approximates closely to the preceding; it is, however, less elongated in form, and the epidermal pattern is of an oblique zig-zag character, which is sometimes developed with peculiar neatness.

SPECIES 38. (Mus. Cuming.)

Bulimus Calista. Bul. testa elongato-ovata, anfractibus septem, convexis, columnellae subintortae; straminata.

epidermide tenuicula, in striis longitudinalibus undatis, peritremate purpureo-nigricante, apice rufo-castaneo.

The CALISTA BULIMUS. Shell elongately ovate, whorls seven in number, convex, columnella slightly twisted; straw-colour, epidermis rather thin, in waved longitudinal streaks, peritreme purple-black, apex reddish chestnut.


Hab. Tanhay, Island of Negros, Philippines (on the leaves of bushes); Cuming.

The B. Calista is of a delicate straw-colour, with a very light epidermis; in form it approaches the B. Boholensis, and the colouring of the peritreme and columnella is nearly the same.

SPECIES 39. (Mus. Cuming.)

Bulimus dactylus. Bul. testa pyramidalio-oblonga, basin versus peculiariter effusa; anfractibus septem, convexis, ultimo obscure carinato; columnellae subintortae; castaneo-fuscecentes, epidermide longitudinaliter nebulatim undatae, lineam spiralern infere prætermittente, peritremate castaneo-nigricante.

The Finger BULIMUS. Shell pyramidal oblong, peculiarly effused towards the base; whorls seven in number, convex, the last obscurely keeled; columnella slightly twisted; light chestnut-brown, epidermis longitudinally nebulously waved, leaving a spiral linear mark round the lower part, peritreme chestnut-black.


Hab. Mountains of Tayabas, Island of Luzon, Philippines (on the leaves of trees); Cuming.

This species, of which Mr. Cuming collected but few specimens, may be recognised by its acuminated growth and effused development of the aperture. It appears to come nearer the B. carinatus of Lea in these respects, than any that has been attributed to that species.

SPECIES 40. (Mus. Cuming.)

Bulimus Diana. Bul. testa elongato-oblonga, anfractibus septem, convexis, columnellae subintortae; straminata, apicum versus eburnea, epidermide tenuis longitudinaliter nebulatet et striatata, peritremate eburnea.

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The Diana Bulimus. Shell elongately oblong, whorls seven in number, convex, columella slightly twisted; straw-colour, ivory-white towards the apex, epidermis thin, longitudinally streaked and clouded, peritreme very white.


Hab. Tanhay, Island of Negros, Philippines (on the leaves of bushes); Cuming.

The chief point of difference between this species and the B. Calista appears to consist in the shining ivory-white peritreme and apex, and it is not unlikely, as Mr. Broderip suggests, that they may merge into one and the same species.

Species 41. (Fig. a and b. Mus. Cuming.)

Bulimus Nymphæ. Bul. testæ subpyramidali-oblungæ, anfractibus senis septenis, convexis, ultimo obscure carinato; columellæ vix arcuatæ; rufo-castaneæ, epidermide in strigis longitudinalibus, latis, rectiusculis, peritrenate purpureo-nigricante.

The Nymph Bulimus. Shell somewhat pyramidal-oblong, whorls six or seven in number, convex, the last obscurely keeled; columella scarcely curved; reddish chestnut, epidermis in rather straight broad longitudinal streaks, peritreme purple-black.


Hab. Fig. a, Mount Isarog; Fig. b, Catanauan, Island of Luzon, Philippines (on the leaves of trees); Cuming.

The variety represented at Fig. b is composed of a whorl less than the other, and is of more ventricose proportions. From B. Boholensis, to which this species is perhaps the nearest allied, it differs in being of a more acuminated form, whilst the pretty zig-zag pattern is wanting in the epidermis.

Species 42. (Mus. Cuming.)

Bulimus Siquijoresensis. Bul. testæ oblongo-ovatæ, tenui-culæ, anfractibus senis, subventricosis, ultimo obscure carinato; columellæ rectiusculæ, aperturæ paululum effusæ; flavicante, epidermide tenui, pulcherrimæ marmoratæ et flammatæ, peritrenate purpureo-nigricante, apice rufescente-castaneo.

The Siquijor Bulimus. Shell oblong-ovate, rather thin, whorls six in number, rather ventricose, the last obscurely keeled; columella nearly straight, aperture a little effused; yellowish, prettily flamed and marbled, peritreme purple-black, apex reddish chestnut.


Hab. Island of Siquijor, Philippines (on the leaves of trees); Cuming.

A light ventricose shell, in which the epidermis is disposed in light sharply zig-zag flames, and beneath the keel, which is obscurely developed on the last whorl, there is an interrupted band of indistinct arrow-headed marks.
Species 43. (Fig. a and b. Mus. Cuming.)

**Bulimus Cuyoensis.** Bul. testá pyramidali-ovatá, umbilicatá, anfractibus quinis, subrotundis, ventricosisculis, columnellá subarcurátá; colutulato-fuscó vel stramineo, nigro multifasciátá, epidermide strigis conspicuas longitudinalis, vix vundatis, exhíbente, peritremita albo.

**The Cuyo Bulimus.** Shell pyramidal-ovate, umbilicated, whorls five in number, somewhat rounded, rather ventricose, columnella slightly arched; burnt brown or straw-colour, enclosed by a black band, epidermis exhibiting conspicuous longitudinal slightly waved streaks, periphery white.

**Pfeiffer, Pro. Zool. Soc., 1842, p. 252.**

*Bulimus calolopus,* Jonas.

**Hab.** Islands of Cuyo and Mindoro, Philippines (on the trees); Cuming.

This very pretty species was first described by Dr. Pfeiffer, from a single indifferent specimen collected by Mr. Cuming at the Island of Cuyo; others subsequently arrived from the Island of Mindoro, exceeding the former so greatly in size and beauty, that their identity was not recognised.

Species 44. (Mus. Cuming.)

**Bulimus victus.** Bul. testá cylindraceo-oblongá, subumbilicatá, anfractibus semis, convexus, columnellá leborquo laté reflexa; rufo-castaneo, epidermide lacté opacé, strigis parvis longitudinalibus irregularibus pretremittente, peritremita albo.

**The Earthen Bulimus.** Shell cylindrically oblong, slightly umbilicated, whorls six in number, convex, lip and columnella widely reflected; reddish chestnut, covered with an opaque cream-coloured epidermis, leaving a few irregular longitudinal streaks, periphery white.

**Broderip, Pro. Zool. Soc., 1840.**

**Hab.** Island of Cuyo, Philippines (on the leaves of trees); Cuming.

I much doubt if the *Bulimus larvatus* of Broderip, (Sowerby, Conch. Illus. f. 117) is distinct from this; it was described, with some hesitation, from a single specimen in rather indifferent condition, and its specific value has not been confirmed by the receipt of any specimens showing more distinctly the characters which it served to indicate.

Species 45. (Fig. a, b, c. Mus. Cuming.)

**Bulimus Dryas.** Bul. testá elongato-ovatá, crassissculá, subumbilicatá, anfractibus semis, convexis, aperture subcontractá, labro crassissculo, laté reflexo; obscurá, plerumque castaneo vel fusco-migracante conspicue fasciátá, epidermide vix notá.

**The Dryas Bulimus.** Shell elongately ovate, rather thick, slightly umbilicated, whorls six in number, convex, aperture somewhat contracted, lip rather thick, broadly reflected; ivory-white, mostly conspicuously banded with chestnut and brownish-black, with scarcely any epidermis.

**Broderip, Pro. Zool. Soc., 1840.**

*Bulimus porrocostus,* Jay.

Testa juvenis, *Bulimus paradoxus,* Pfeiffer.

**Hab.** Mansalai, Island of Mindoro, Philippines (in the woods); Cuming.

Of a peculiarly thickened growth compared with other species, giving a widely reflected lip to the aperture, with an extremely slight epidermis. The rich dark chestnut bands with which it is mostly encircled are deeply stained in the shell.

Species 46. (Fig. a, b, c. Mus. Cuming.)

**Bulimus Sylvanus.** Bul. testá elongato-ovatá, subpyramidáli, anfractibus semis, subconstrictis, aperture sub-effusá, labro laté reflexo; albidá, castaneo-fusco plerumque latífasciátá, epidermide laté cornáté, strigis remotis longitudinalibus plerumque exhíbente, peritremita albo, sepe castaneo vel roseo marginato.

**The Sylvanus Bulimus.** Shell elongately ovate, somewhat pyramidal, whorls six in number, rather ventricose, aperture slightly effused, lip widely reflected; whitish, generally broadly banded with chestnut-brown and covered with a thin yellow horny epidermis, frequently exhibiting remote longitudinal streaks, periphery white, often edged with rose or chestnut.

**Broderip, Pro. Zool. Soc., 1840.**

**Hab.** Puerto Portrero, Island of Mindoro (in the woods); Cuming.

This species, it will be observed, is distinguished from the preceding by its lighter growth, deeper colour, and more developed epidermis.

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PLATE X.

Species 47. (Mus. Cuming.)

BULIMUS APLOMORPHUS. Bul. testa conico-ovata, anfractibus senis, conveksis, ultimo superno obscuro angulato, aperturâ parva, labro fortiter reflexo; castaneo-lutescente, zonis rufo-fusiosis dubius cingulatâ, epidermide tenissimâ, peritremate albo.

The simple-form BULIMUS. Shell conically ovate, whors six in number, convex, last whorl obscurely angled at the lower part, aperture rather small, lip strongly reflected; chesnut-yellow, encircled with two red-brown zones, epidermis very slight, peritreme white.


Hab. Philippine Islands.

Allied to A. Guimarasensis but of another form, differing principally in being more conical and in having a second thin white hydrophanous epidermis, which, however, in the specimen figured, is much rubbed away. It was not collected by Mr. Cuming.

Fig. 19 c and d. (Mus. Cuming).

The shells here represented are without doubt varieties of the B. pictor described at Plate IV. although so much smaller in size, and not characterized by the zigzag shadowed flames depicted in the specimens there figured: in these the outer hydrophanous epidermis is either arranged in slightly waved streaks, or it covers the shell leaving streaked spaces. Where the varieties chiefly simulate is in the vivid purple-black colouring of the peritreme.

Species 48. (Mus. Cuming.)

BULIMUS UBER. Bul. testa subabbreviato-ovata, tenissimâ, diaphanâ, anfractibus quaternis, ventricosis, longitudinally confluenâ, regulariter striatis, ultimo spire magnitudinem valde superante; pellucido-albâ, epidermide tenissimâ intus.

The nipple BULIMUS. Shell somewhat shortly ovate, rather thin, diaphanous, whors four in number, ventricose, longitudinally closely regularly striated, last whorl far exceeding the size of the spire; transparent white, covered by a thin yellowish epidermis.


Hab. Island of Guimaras, Philippines, (on the leaves of trees); Cuming.

The spire of this shell is of a peculiarly swollen mamillary structure, whilst the shell is composed of no more than four whors; it is of a semitransparent diaphanous texture with only a very simple shining epidermis.

Species 49. (Mus. Cuming.)

BULIMUS AEGLE. Bul. testa oblongo-ovata, vix pyramidalis, anfractibus quinquissimis, conveksis, obliquâ creberrimâ striatis, ultimo subsecutum, inferius obscuro obtuso-carinato; fulvo, basi indistinctâ fasciato, suturis subtiliusimâ albilucescente, peritremate conspicuâ castaneo-fusco.

The AEGLE BULIMUS. Shell oblong-ovate, scarcely pyramidal, whors five in number, convex, obliquely very closely striated, last whorl somewhat effused, obscurely obtusely angled round the lower part; fulvous, indistinctly banded at the base, sutures marked with a very fine white line, peritreme conspicuously stained with chesnut-brown.


Hab. Casu, Province of Misamis, Island of Mindanao, Philippines (in a dense forest on the leaves of trees); Cuming.

Peculiar in form but of a dull fulvous hue, not distinguished by any ornamental epidermis, nor of an aspect at all complimentary to the fair nymph to whom it is dedicated.

Species 50. (Mus. Cuming.)

BULIMUS LEUCOPHLEUS. Bul. testa subpyramidali-ovata, crassiusculis, plus minus ventricoso, anfractibus senis, conveksis, columna rectâ, aperturâ subcontractâ, labro reflexo; castaneo-fusco, epidermide leucophae, sepe alboflammatâ, invernâ fasciâ angustâ vel lineâ nigricante cingulatâ, interdum conâ, infra suturas, albidâ, hic illic peculiariter abradâ, columna et apertura fine caeruleo-albo, peritremate castaneo-nigricante marginato.

The russet-grey BULIMUS. Shell somewhat pyrmaidally ovate, rather thick, more or less ventricose, whors six in number, convex, columella straight, aperture slightly contracted, lip reflected; chesnut-brown, covered with a russet-grey epidermis, often

May, 1848.
flamed with white, encircled round the lower part
with a dark line or narrow band, sometimes with a
white band beneath the sutures peculiarly abraded
here and there, columella and interior of the aperture
bluish white, peritreme edged with chestnut-black.


*Bulimus*. Dolores, Province of Pampanga, and Mountains of
Igarrotes, Province of Cagayan, Island of Luzon,
Philippines (on the trees); Cuming.

There is a singular peculiarity attending this species in
the manner in which the epidermis, especially on the
band which is sometimes seen beneath the sutures, is
abraded, denuding the shell in patches.

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**Species 51.** (Mus. Cuming.)

*Bulimus leopardus*. Bul. testá subabbreviato-ovátâ, 
ventricósâ, anfractibus quinis, convexitis, longitudinaliter
creberrimè costulato-striátâ, ultîma spíra longitudinalém
superânte, côlumellâ arcuatâ, aperturâ ampiissimâ; 
usuostâ-rustâ, epidermide albido sparâ, sub alterná
tenù corneâ, variegatâ, peritreme purpureo-castaneó.

The leopard *Bulimus*. Shell somewhat shorty ovate,
ventricose, whorls five in number, convex, very
closely sculptured longitudinally with fine rib-like
stripes, last whorl exceeding the length of the spire,
columella arched, aperture very large; yellowish-
chestnut, variegated with a scattered whitish epider-
mis upon a thin horny one, peritreme purple-chestnut.


*Hab.* Island of Mindoro, Philippines.

This remarkable species, of which Mr. Cuming has only
the single specimen here represented, is distinguished from
all others by the effused and suddenly enlarged develop-
ment of the last whorl. It is also characterized by a
regular succession of longitudinal rib-like striae of a more
defined growth than the ordinary lines of structure, which
in a genus so devoid of sculpture is an important feature.

The name is suggested by the scattered interrupted
stripes in which the outer hydrophanous epidermis is de-
posited. The columella, it should be observed, has a
pink hue, and the impress of the striae imparts a delicate
satiny iridescence to the interior of the shell.

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**Species 52.** (Mus. Cuming.)

*Bulimus concinnus*. Bul. testá pyramidali-oblongá, an-
fractibus quinis plano-convexis, aperturâ contractâ, labro
reflexo; castaneo-fusco, epidermide concinnâ albido-
marmoratâ et flammatâ, côlumellâ et aperturâ face
concinna-albí, peritreme nigricante-castaneo

The pretty *Bulimus*. Shell pyramidal oblong, whorls
six in number, flatly convex, aperture contracted, lip
reflected; chestnut-brown, epidermis prettily flamed
and marbled with white, columella and interior of the
aperture bluish white, peritreme dark chestnut.


*Hab.* St. Juan, Province of Cagayan, Island of Luzon,
Philippines (on the leaves of trees); Cuming.

I much doubt whether this is anything more than a
variety of the *B. leucophaea*; it is, however, a well-marked
and extremely pretty one.
**BULIMUS.**

**PLATE XI.**

Species 53. (Mus. Cuming.)

**BULIMUS INCOMPRESS.** Bul. testá oblongo-oválá, obtusó-pyramidali, anfractuosus quinis, rotundatis, columna recta, labro vix reflexo ; interserite-brunnéa, columna nigricante-fuscá cingulatá, epidermide tenui indutá.

**THE UNADORNED BULIMUS.** Shell oblong ovate, obtusely pyramidal, whorls five in number, rounded, columnella straight, lip but slightly reflexed; yellowish brown, encircled by a narrow blackish brown zone, covered by a thin epidermis.


*Hab.* Island of Tablas, Philippines.

Only a single specimen of this species was collected, and it has very much the appearance of being an abortive growth of one subsequently named by Mr. Sowerby, *Helix acuminata* (Sp. 60); they are identical in colour and pattern, but vary materially in form.

Species 54. (Fig. a and b. Mus. Cuming.)

**BULIMUS PARTULOIDES.** Bul. testá pyramidali, spirá acumináta, anfractuosus quinis, convexis, aperturá parvisculá, subquadrate-ovali, labro latissimá reflexá; albida, zoná castaneo-nigricante cinguláta, epidermide luteá indutá, interseritum omnino intusca castanea, peritremito alba.

**THE PARTULA-LIKE BULIMUS.** Shell pyramidal, spire acuminated, whorls five in number, convex, aperture rather small, somewhat square-ovate, lip very broadly reflected; whitish, encircled by a narrow chestnut black zone, covered by a yellow epidermis, sometimes dark chestnut throughout, peritremito white.


*Hab.* Island of Tablas, Philippines (on the leaves of trees); Cuming.

This is the nearest approach to *Partula* of any species of the genus, the aperture having the same square-like form and widely reflexed lip.

Species 55. (Mus. Cuming.)

**BULIMUS LUZONICUS.** Bul. testá sublongato-oválá, apice obtusá, anfractuosus semis, convexis, columnella intorta, aperturá subcontractá, labro reflexo; obscurá, columna nigricante conspicue cingulatá.

**THE LUZON BULIMUS.** Shell somewhat elongately ovate, obtuse at the apex, whorls six in number, convex, columnella twisted, aperture somewhat contracted, lip reflected; ivory white, conspicuously encircled by a narrow black zone.

*Hab.* Island of Masbate, Philippines (on the trees); Cuming.

I have always considered this shell to represent a species distinct from *B. ovoides*, and propose to re-establish Mr. Sowerby's name, although he himself abandoned it upon the grounds of its relationship. It is of a more elongately oblong form, is composed of a whorl more, and the narrow black zone with which it is encircled never varies. These characters may be regarded as of trifling importance, but they are constant. In a parcel of upwards of a hundred of each species which came into my possession some time since, there was no variation or the least tendency to merge one into the other. The name is rather an inappropriate one, for Mr. Cuming did not collect a single species at Luzon; there is, however, no reason why it might not become naturalized in that island.

Species 56. (Fig. a and b. Mus. Cuming.)

**BULIMUS OVOIDES.** Bul. testá oblongo-oválá, subventricosa, apice obtusa, anfractuosus quinis, convexis, columnella vix intorta, labro reflexo; albá, fascia duobus tribus acuminátus anfractuosus fuscosus cingulátus, epidermide tenquisinis.

**THE OVOID BULIMUS.** Shell oblong ovate, rather ventricose, obtuse at the apex, whorls five in number, convex, columnella scarcely twisted, lip reflected; white, encircled with two or three rather broad orange-brown or chestnut bands, epidermis very thin.

Bruguier, Enc. Méth. Dict., No. 64.

*Hab.* Islands of Ticao and Masbate, Philippines (on the trees); Cuming.

Distinguished by its oval ventricose growth and broad spiral bands of colour.

Species 57. (Mus. Cuming.)

**BULIMUS VELATUS.** Bul. testá oblongá, sub-Pupaformi, anfractuosus semis, subtornatis, aperturá parvisculá, labro simplici; interseritum-albá, columna rufo-fusciscente.

May, 1848.
The clothed BULIMUS. Shell oblong, somewhat Pupa-shaped, whorls six in number, subrotund, aperture rather small, lip simple; yellowish white, encircled with a narrow red-brown zone, epidermis thin, whitish, leaving somewhat indistinctly longitudinal streaks, peritreme red-brown.


Hab. Island of Camote, Philippines (on the leaves of trees); Cuming.

Of this species Mr. Cuming only collected three specimens, and these appear to be of somewhat immature growth. It is not distinguished by any marked peculiarity of character.

Fig. 58. (Mus. Cuming.)

This shell was named in Mr. Cuming’s collection B. nebulous, but as I am doubtful of its being a variety of the B. calista, it may for the present be referred to that species. For Sp. 58, see Pl. XIII.

Species 59. (Mus. Cuming.)

BULIMUS PYRAMIDALIS. Bul. testâ oblongo-pyramidali, apice obtusâ, anfractibus semis, subrotundâ, apertura parviscuculâ, labro simplici; fulvâ, basi versus satursisque nigricante-castaneâ, epidermide tenui indutâ, columella alba, peritremate rufuso.

The pyramidal BULIMUS. Shell oblong-pyramidal, obtuse at the apex, whorls six in number, somewhat round, aperture rather small, lip simple; yellowish, blackish chestnut towards the base and in the sutures, covered with a thin epidermis, columella white, peritreme brown.


Hab. Island of Cuyo, Philippines (upon the leaves of trees); Cuming.

The colour of this shell is a dark burnt brown, with traces of a light puckered epidermis beneath the sutures. It may be readily distinguished by this and its pyramidal growth.

Species 60. (Mus. Cuming.)

BULIMUS ACUMINATUS. Bul. testâ subpyramidali-ovatâ, apice acuminatâ, anfractibus quinque, convexis, ultimo obscure subangulato, labro tenui, visi reflexi; lutescente-brunneâ, zonulâ castaneâ cingulatâ, epidermide tenui indutâ, columella alba, peritremate ruf-fuscâ.

The acuminate BULIMUS. Shell somewhat pyramidal-ovate, spire acuminated, whorls five in number, convex, the last obscurely slightly angled, lip thin, but slightly reflected; yellowish-brown, encircled by a narrow chestnut zone, covered with a thin epidermis, columella white, peritreme red-brown.


Hab. Island of Cuyo, Philippines (upon the leaves of trees); Cuming.

Of a peculiar yellowish-brown colour encircled by a narrow zone of red-brown and stained with very dark chestnut round the columella. It differs from B. incomptus only in form, its general aspect and colouring are the same.
BULIMUS.

Species 61. (Mus. Cuming.)

BULIMUS CUMINGII. Bul. testâ ovata, spirâ subobtusa, anfractibus quinque, convexit, tumidâ, labro tenui, vix reflexo; alba, fasciis carneo-fuscis, latis interruptis cingulâ, peritremate carneo-fuscâ.

Hab. Island of Camiguin, Philippines (on leaves of trees); Cuming.

The shell ovate-conoid, whorls five in number, convex, columella slightly twisted, lip somewhat effused, white, greenish towards the base, with a very thin horny epidermis.


Hab. Island of Mindoro, Philippines.

The green colouring of this species seems to reside in great measure in its thin horny epidermis.

Species 64. (Mus. Cuming.)

BULIMUS EFFUSUS. Bul. testâ ovata, basin versus ventricosa, effusâ, anfractibus quinque, convexis, tumidâ, labro sublatâ reflexo; alba, fasciis carneo-fuscis, latis interruptis cingulâ, peritremate carneo-fuscâ.

Hab. Island of Tablas, Philippines (on the leaves of trees); Cuming.

This shell approaches rather to the Helix decipiens in form and general aspect than to the B. Cumingii, with which Dr. Pfeiffer compares it, and might be referred to that genus with almost equal propriety.

Species 65. (Mus. Cuming.)

BULIMUS BREVICULUS. Bul. testâ crassioccâ, peculiariter abbreviato-pyramidali, oblique obtusâ, anfractibus sex, angustis, apertura parce labro sublatâ reflexo; alba, epidermide luteo-fuscâ.

Hab. Island of Romblon, Philippines (on bushes); Cuming.

May, 1848.
The shell is not in very good condition and only a vestige of the epidermis remains near the aperture.

Species 66. (Mus. Cuming.)

_Bulimus Lea._ *Bul. testa ovato-conoidalis, solidioscula, spiralis subdilata, anfractibus quinque, rotundatis, columnella sub-planid, labro reflexo; albâ, epidermis tenue striatae indutâ._

Lea's _Bulimus._ Shell ovately conoid, rather solid, spire somewhat obtuse, whorls five in number, rounded, columnella rather flattened, lip reflected; white, covered with a thin straw-coloured epidermis.

_Pfeiffer, Pro. Zool. Soc., 1846, p. 29._

_Hab. Philippine Islands._

A shell of simple character though not exactly agreeing with any other species.

Species 67. (Mus. Cuming.)

_Bulimus stabilis._ *Bul. testa cylindraceo-ovata, crassioscula, bini effusa, anfractibus sex, plano-convexis, angustis, aperturâ obliquâ, labro fortiter reflexo; albâ, anfractuum parte inferiori intusâ ustulato-carunculâ, peritreme albo._

_The firm Bulimus._ Shell cylindrically ovate, rather thick, effused at the base, whorls six in number, flatly convex, narrow, aperture oblique, lip strongly reflected; white, lower part of the whorls deep burnt chestnut, peritreme white.


_Hab. Isle of Temple, Philippines; Cuming._

A solid Pupiform shell, approximating in some degree to the _B. ovoides_ but of more solid structure and very peculiar in its style of colouring.

Species 68. (Mus. Cuming.)

_Bulimus bullula._ *Bul. testa ovato-conoidal, anfractibus quatuor, convexis, aperturâ subeffusa, labro vis reflexo; ceruleo-castaneo-albid diaphano, epidermide aureo-pallide rubido._

_The little bubble Bulimus._ Shell ovately conoid, whorls four in number, convex, aperture somewhat effused, lip slightly reflected; transparent bluish white or yellowish, pale ruddy colour at the apex.

_Broderip, Pro. Zool. Soc., 1840, p. 139._

_Hab. Puerto Galero, Island of Mindoro, Philippines; Cuming._

A most delicately coloured species of a transparent opal white tinged with red at the apex.

Species 69. (Mus. Cuming.)

_Bulimus dilatatus._ *Bul. testa crassioscula, abbreviato-pyramidali, subcentricos, anfractibus sex, angustis, columnella plano-dilatata, aperturâ parvisculata; nigricentae-purpurea, apicem versus reflescente, epidermide fusci, hydrophano, columnella et aperturâ fuscâ albis, peritreme nigricentae-purpureo marginato._

_The dilated Bulimus._ Shell rather thick, abbreviately pyramidal, somewhat ventricose, whorls six in number, narrow, columnella flatly dilated, aperture rather small; blackish-purple, reddish towards the apex, with a brown hydrophanous epidermis, columnella and interior white, peritreme edged with purple-black.


A solid contracted pyramidal shell approaching somewhat in form to the _B. leucophaea_; and the hydrophanous epidermis, of which this specimen exhibits the remains, appears to be abraded in patches beneath the sutures as in that species.

Singularly allied in form to the _B. dilatatus_, which is of a dark purple-brown colour, but somewhat less ventricose.
BULIMUS.

PLATE XIII.

Species 58. (Mus. Cuming.)

Bulimus zonulatus. Bul. testa conico-oblata, tenui, umbilicata, anfractibus convexus, levibus, labro columellae reflexo, umbilicum feri occultante, externo simplici; pallide opaco-stramineo, macularum pellicidarum seriebus duabus cincta, anfractu ultimo zonulis duabus castaneis ornato.

The finely zoned Bulimus. Shell conically oblong, thin, umbilicated, whorls convex, smooth, columellar lip reflected so as almost to conceal the umbilicus, outer lip simple; pale opaque straw-colour, encircled by two rows of transparent spots, last whorl ornamented with two narrow chestnut zones.


Hab. Cabanatuan, Province of Nueva Esca, Island of Luzon; Cuming.

There is a very singular character attending this species; the shell is of a thin transparent horny substance, covered by an opaque straw-coloured layer except in those places by which the pattern is produced, the spots have thus an appearance, so to speak, of little windows in the shell.

Species 70. (Mus. Cuming.)

Bulimus Panamensis. Bul. testa oblongo-ovata, tenui, vis umbilicata, anfractibus quyque convexius, levibus, aperturâ parcevulcata, labro simplici; pallide fulvo, diaphanâ.

The Panama Bulimus. Shell oblong-ovate, thin, slightly umbilicated, whorls five in number, smooth, aperture rather small, lip simple; pale fulvous colour, diaphanous.


Hab. King's and Saboga Islands, Bay of Panama (on the trunks of large trees); Cuming.

The form of this shell is extremely simple, and its colour a semi-transparent nacreous.

Species 71. (Mus. Cuming.)

Bulimus translucens. Bul. testa oblongo-ovata, tenui, valde pellucida, vis umbilicata, anfractibus quyque, subventricosis, levibus aut transversum et longitudinalem minutæ striato, labro simplici; corneo-lutescente.

The transparent Bulimus. Shell oblong-ovate, thin, very pellucid, slightly umbilicated, whorls five in number, smooth or transversely and longitudinally minutely striated, lip simple; pale horn-yellow.


Hab. King's and Saboga Islands, Panama (upon the trees); Cuming.

Of a beautiful transparent glassy structure, through which the internal winding of the columella may be plainly seen. It is very similar in form to the B. Panamensis, and is from the same locality.

Species 72. (Mus. Cuming.)

Bulimus evanescens. Bul. testa subabbreviato-pyramidali, apice obtusa, anfractibus quyque convexius, levibus, nitidiusculis, aperturâ parcevulcata, labro reflexo; virescente-albo, subdiaphoonâ, lined nigro infra suturâ, parte circa columellam conico-lutescâ.

The evanescent Bulimus. Shell somewhat abbreviately pyramidal, obtuse at the apex, whorls five in number, convex, smooth, rather shining, aperture somewhat small, lip reflected: greenish white, subtranslucent, with a black line beneath the sutures, and the part around the columella conspicuously black.

Pfeiffer, (inedit?).

Hab. Philippine Islands; Cuming.

A delicate semi-transparent shell easily recognised by the black line between the sutures, and broader band around the columella.

Species 73. (Mus. Cuming.)


Adams' Bulimus. Shell ovately turreted, sinistral, whorls convex, smooth, aperture rather small, lip reflected; greenish or yellow, encircled round the middle with a row of close-set irregular somewhat square blackish green spots, sometimes unsotted, the part around the columella purple-rose.

Hab. Eastern Coast of Borneo (on a tall tree in an islet between Banguey and Balambangan); Adams.

June, 1848.
Fig. 14 mane Pul. positur Amor
Vide addenda.
An interesting new species discovered by Mr. Arthur Adams, at the above mentioned locality, during the recent expedition of H.M.S. Samarang. "A tree, partially cut through at the base with axes," says the author of the valuable summary of Natural History attached to the Narrative of that Voyage, "fell upon one of the carpenters wooding on the island, depriving him at the time of sensation. What proved a misfortune to the man, however, presented to science a new and beautiful species of Bulimus, which I discovered in considerable numbers and variety adhering to the prostrate tree." All the specimens were reversed, of a yellow or yellowish green colour, stained with purple rose about the columella, and mostly encircled round the middle by a chain of square greenish spots.

Species 74. (Mus. Cuming.)

Bulimus eburneus. Bul. testâ pyramidali-oblungâ, anfractibus sex, rotundatis, lacinios, politis, labro reflexo; eburneâ, epidermide tennissimâ straviâ partim indutâ.

The ivory Bulimus. Shell pyramidal oblong, whorls six in number, rounded, smooth, polished, lip reflected; ivory white, partially covered with a very slight straw-coloured epidermis.

Bulimus Diana var., Broderip.

Hab. —?

Mr. Broderip has, I think erroneously, considered this shell a variety of B. Diana; in form it differs in the whorls being more rounded, whilst it is of thinner texture and of a pure diaphanous white, the surface being characterized by an extremely delicate natural polish.

Species 75. (Mus. Cuming.)

Bulimus erythrostroma. Bul. testâ subgloboso-ovatu, umbilicatâ, anfractibus quinque rotundatis, concentricâ rude striatâ, columellâ sublatâ reflexa, labro simplici; opaco-albâ, columellâ apice et aperture fave roseis.

The red-mouth Bulimus. Shell somewhat globosely ovate, umbilicated, whorls five in number, rounded, concentrically rudely striated, columella rather widely reflected, lip simple; opake-white, columella, apex, and interior of the aperture rose-pink.


Hab. Huasco, Chili (under bushes); Cuming.

Of a peculiar bluish opake white having the columella, apex, and aperture coloured with a delicate rose-pink.
BULIMUS.

PLATE XIV.

Species 76. (Mus. Cuming.)

BULIMUS PANAYENSIS. Bul. testa elongato-turticati, levigata, pellucidia, apice obtusae, anfractibus octo, aperturâ minus, labro simplici; cero-albidâ.

The Panay Bulimus. Shell elongately turreted, smooth, pellucid, obtuse at the apex, whors eight in number, aperture very small, lip simple; waxen white.


Hab. Dingle, Isle of Panay, Philippines; Cuming.

This is the smallest species collected by Mr. Cuming at the Philippines, it is of an elongately turreted form and of a hyaline waxen coating.

Species 77. (Mus. Cuming.)

BULIMUS RHODACME. Bul. testâ oblongo-ovata, umbilicatâ, anfractibus sex, minutâ antem conspicuâ striatis, striis transversis subobsoletis minutissimis decussato-gramulatis, labro simplici; opaco-albidâ, maculis flammulisque roseis subpellucidas versus apicem.

The red-tipped Bulimus. Shell oblong-ovate, umbilicate, whors six in number, minutely but conspicuously striated, and very minutely decussated with somewhat obsolete transverse strie, lip simple; opaque-white, with semitransparent rose-tinted spots and flames towards the apex.


Hab. Prierina, Huasco, Chili (under small Cacti); Bridges.

A delicate species of a seemingly transparent texture, enveloped, save about the apex, with an opaque-white coating.

Species 78. (Mus. Cuming.)

BULIMUS MICRA. Bul. testâ subelongata, sex umbilicatâ, semipellucidâ, anfractibus subrotundatis; creberrimâ concentricâ striatâ, spire suturis peculiariter impressis, aperturâ parâ, labro simplici; corneo-albidâ.

The small Bulimus. Shell rather elongated, slightly umbilicate, semipellucid, whors somewhat rounded, very closely concentrically striated, sutures of the spire peculiarly impressed, aperture small, lip simple; hornly white.


BULIMUS TEREBRALIS. Bul. testâ elongata, subcylindraceâ, latâ angulato-umbilicata, spire suturis impressis, anfractibus decussis ad nudostris, plano-concavis, obliquè crebro corrugato-striatis, columna subcontinguo-effusa, aperturâ minus, peritreme dilatato; fuscocentro-albidâ, apicem versus nigricante.

The auger-like Bulimus. Shell elongated, somewhat cylindrical, broadly angularly umbilicate, sutures of the spire impressed, whors ten to eleven in number, flatly convex, obliquely closely striated in a wrinkled manner, columnella concavely effused, aperture very small, peritreme dilated; brownish-white, blackish towards the apex.


Hab. Coquimbo, Chili (on rocks and plants near the sea); Bridges.

Distinguished from the B. Papiformis to which it is most nearly allied, by its obliquely corrugated strie, widely angulated umbilicus, and neat dilated aperture.

Species 79. (Mus. Cuming.)

BULIMUS ELONGATUS. Bul. testâ elongata, anfractibus octo, latiusculis, plano-concavis, sub epidermise tenuissimâ et creberrimâ striatis, aperturâ parâ, superne subcontractata, labro simplici; stramineo-albidâ, subpellucidâ.

The elongated Bulimus. Shell elongated, whors eight in number, rather broad, flatly convex, very finely and closely striated, aperture small, somewhat contracted towards the upper part; pale straw-colour, semitransparent.


Hab. Catanaun, Province of Baie, Island of Luzon, Philippines (at the roots of trees); Cuming.

The whors of this species are each slightly contracted round the upper part.

June, 1848.
Tab. XIV. Icones plus vel minus aequantes sunt. Fig. 83 non est in 296 sed 246.
Species 81. (Mus. Cuming.)

**Bulimus Grateloup.** Bul. testá elongato-ovatá, tenax, pellicida, anfractibus sex ad septem, levibus, nitidis, ant concentricé subtilissimé striatis, columellá reflexá, labro simplici, arcuto, superné sinuato; cornus-straminé.

Grateloup’s Bulimus. Shell elongately ovate, thin, pellicid, whors six to seven in number, smooth, shining, or concentrically very finely striated, columella reflected, lip simple, curved, sinuated at the upper part; horny straw-colour.

**Pfeiffer, Pro. Zool. Soc., 1846, p. 42.**

*Hab.* Islands of Luzon and Panay, Philippines (at the roots of trees); Cuming.

A transparent horny shell very finely marked throughout with concentric striae of growth, resulting from the curved structure of the lip.

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Species 82. (Mus. Cuming.)

**Bulimus cochleadea.** Bul. testá elongatá, anfractibus novem, latissimís, levibus, convexis, aperturá pæreá, superné contractá, labro simplici; albídá.

The spoon-like Bulimus. Shell elongated, whors nine in number, rather broad, smooth, convex, aperture small, slightly contracted at the upper part, lip simple; whitish.

*Hab.* Island of Cuyo, Philippines; Cuming.

This singular species, it may be observed, is represented of the natural size, whilst the rest of the plate are all more or less magnified. Mr. Cuming only collected this solitary specimen, which is quite unapproached by any other. It is of extremely simple structure.

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Species 83. (Mus. Cuming.)

**Bulimus lichenorum.** Bul. testá oblongo-turríté, umbilicatá, anfractibus septem, subrotundatá, levibus ant teunistratitá, columellá reflexá, aperturá parceisculá, labro simplici; caerulescente-albá, striaté perpuracis cineris obliquis, apice nigricante.

The lichen Bulimus. Shell oblong-turreted, whors seven in number, somewhat rounded, smooth or finely striated, columella reflected, aperture rather small, lip simple; bluish-white, with a few oblique ashy streaks, apex blackish.

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D’Orbigny, Voyage dans l’Amér. mérid. Moll. p. 264. pl. 41. f. 9 to 11.

*Hab.* Cobija (on liebans); D’Orbigny. Chilon, Bolivia (under dead trunks of Cacti); Bridges.

It is not without some doubt that I venture to refer this shell to the above named species of D’Orbigny; yet it accords sufficiently with his description and figure.

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Species 84. (Mus. Cuming.)

**Bulimus scabiosus.** Bul. testá elongato-oblongá, anfractibus septem, convexis, peculiariter interrupté sulcatis et striatis, columellá reflexá, aperturá pæreá, labro simplici; albídá, rufo-fraccescenté strigatá et marmoratá, apice versus nigricante.

The scurfy Bulimus. Shell elongately oblong, whors seven in number, convex, peculiarly grooved and striated in an interrupted manner, columella reflected, aperture small, lip simple; whitish, streaked and marked with light reddish-brown, blackish towards the apex.

**Sowerby, Pro. Zool. Soc., 1833, p. 74.**

*Hab.* Cobija, Peru (under stones); Cuming.

Mainly distinguished by a roughened peculiarity of sculpture which appears to have suggested the above name to Mr. Sowerby, though no mention is made of it in his description.

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Species 85. (Mus. Cuming.)

**Bulimus Pupiformis.** Bul. testá cylindraceo-elongatá, anfractibus decem, convexis, levibus ant teunistratis, ad suturas minuté crenulatá, columellá reflexá, aperturá pæreá, labro simplici, subdilatato; cinereo-albídá, apice versus nigricante.

The Pupa-shaped Bulimus. Shell cylindrically elongated, whors ten in number, convex, smooth or finely striated, minutely crenulated at the sutures, columella reflected, aperture small, lip simple, slightly dilated; ashy white, blackish towards the apex.

**Broderip, Pro. Zool. Soc., 1832, p. 105.**

*Hab.* Huasco, Chili (under stones in shady places); Cuming.

It is important to observe the minute sutural crenulations which characterize this species, as Mr. Broderip appears to have overlooked them.
BULIMUS.

PLATE XV.

Species 86. (Fig. a, b, c, Mus. Cuming.)

BULIMUS TUPACII. Bul. testa oblongo-ovata, subumbilicata, ventricosa, anfractibus septem, concentricè fortiter et irregulariter striata, per marginem superiorem plus minusve crenulata, labro vix reflexo; olivaceo-brunneo, interdum quinquessuicata, raro flaviscante, columellae labroque albi.

TUPAC'S BULIMUS. Shell oblong or elongately ovate, slightly umbilicated, ventricose, whorls seven in number, concentrically strongly and irregularly striated, more or less crenulated along the upper margin, lip scarcely reflected; olive-brown, sometimes five-banded, rarely pale yellow, lip and columella white.

D'ORBIGNY, Voy. dans l'Amer. Mérid. p. 292. pl. 38. f. 1 to 5.

Hab. Provinces of Yungas, Sicasica, and Ayupaya, Bolivia (found on garden walls and on bushes at an elevation of more than 9000 feet); D'Orbigny, Bridges.

The growth of this species varies, as represented by the specimens figured, from a swollen oblong shape to a more elongated form. Sometimes the shell is banded, and it is always more or less crenulated along the margin next the sutures. The colour is mostly a dull livid olive brown, but the specimen Fig. c, collected by Mr. Bridges, is a pale yellow.

Species 87. (Fig. a and b, Mus. Cuming.)

BULIMUS ROSACEUS. Bul. testa oblongo-ovata, crassiscutulà, ventricosa, striátà aut sub lente minutissimè granulatà, spirà obtuso-depressa, anfractibus quinque, per marginem superiorem plus minusve crenulatà, labro latissulo, reflexo; olivaceo-viridì, epicen versus rosaceà, epidermide tenuissimè sepe marmoratù, columellù labroque albìdis, interdum rosacesco-aurantiis.

THE ROSE-COLOURED BULIMUS. Shell oblong ovate, rather thick, ventricose, striated or very minutely granulated under the lens, spire obtusely depressed, whorls five in number, more or less crenulated along the upper margin, lip rather broad, reflected; olive-green, rose-coloured towards the apex, frequently marbled with a very light epidermis; lip and columella white, sometimes rose-orange.


Varietates.

Bulimus Chilensis, Broderip (not of Lesson).
Bulimus pachycheilus, Pfeiffer.
Hab. Chilí (under stones and in the sand); King.
Cuming, D'Orbigny. Bolivia (under trunks of trees); Bridges.

The B. rosaceus inhabits a wide range of country and is found in very different states. The variety Fig. a, which may be regarded as the typical form, inhabits the environs of Valparaiso; that represented at Fig. b, distinguished by its rude concentric striae, strong crenulations, and warm orange colouring of the lip and interior, was collected in great plenty and with little or no variation at Huasoa, Chile; and at Coeputa, Bolivia, a variety of still larger size occurs of thin light growth with scarcely any indication of crenulations or striae. At Huasoa, the species was also collected by Mr. Bridges in a state quite distinct from these, of much smaller dimensions, paler in colour, and of a minutely granulated satiny hue. This is the B. pachycheilus of Pfeiffer, and apparently the shell from Bahia Blanca taken by D'Orbigny for the B. unicolor with which he does not seem to be acquainted. Another condition of the B. rosaceous is that of similar size from Coquina, described by Mr. Sowerby as a distinct species under the name B. Chilensis. It should be observed that the eggs of these smaller species are of a more oblong form than those of the first mentioned.

Species 88. (Mus. Cuming.)

BULIMUS PHASIANELLUS. Bul. oblongo-ovata, crassiscutulà, anfractibus quinque, ventricosis, leviter striatis, per marginem superiorem in anfractu ultimo et penultimo crenulatà, columellà subiortâtà, labro incrassato, reflexo; violaceo-griséis, maculis transversis parvis numerosis irregularibus violaceo-fusciscentibus pictà, columellâ laîque intensâ violaceis.

THE PHASEAN' MARKED BULIMUS. Shell oblong-ovate, rather thick, whorls five in number, ventricose, slightly striated, crenulated along the upper margin in the last and penultimate whorls, columella a little twisted, lip thickened, reflected; violet-grey, painted with numerous irregular small transverse blotches of violet-brown, lip and columella deep violet.

May, 1848.
VALENCIENNES, Humboldt, Zool. v. ii. p. 244. pl. 55. f. 4.
Bulimus iostoma, Sowerby.

_Hab._ Chili and Peru (on trees); Cuming.

At the Isle of Plata Mr. Cuming found this beautiful and well known species in such abundance upon trees stripped of their leaves, that they looked as if laden with fruit. The animal yields a rich purple juice.

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Species 89. (Fig. a and b. Mus. Cuming.)

_Bulimus porphyrius._ Bul. testa subelongato-ovata, spirà acuminata, anfractibus sex, concentricè redè et irregulariter elevato-striatis, per marginem superiorem hie iltic minutè crenulatè; fumeo-fuseo, striis concentricis hie illic albis.

The _porphyry Bulimus._ Shell somewhat elongately ovate, spire acuminated, whorls six in number, concentrically, rudely, and irregularly elevately striated, and minutely crenulated here and there along the upper margin; smoky brown, concentric striae here and there white.

_Hab._ ?

The growth of this shell not being completed, it is impossible to say whether the lip would remain simple or be reflected at maturity. It is a very characteristic species and cannot easily be confounded with any other; the white ridge-like striae have a rubbed appearance and being on a dark ground have a very peculiar aspect. Mr. Cuming has no information as to its locality.

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Species 90. (Mus. Cuming.)

_Bulimus zebra._ Bul. testà ovata, tenuiculà, imperforatà, ventricosa, spirà acuminatà, anfractibus subulatis laevius, columellæ rectæ, labro simplici; viridè, flammis strigisque minoribus peculiariter undati flacidantibus ornatè, columellæ albd, labro intus castaneo-marginato.

The _zebra Bulimus._ Shell ovate, rather thin, imperforated, ventricose, spire acuminated, whorls somewhat rounded, smooth, columella straight, lip simple; green, ornamented with peculiarly waved flames and lesser streaks of yellow, columella white, lip edged internally with chestnut.

_Bulimus undatus,_ Bruguière.

Varieates.

_Bulimus zigzag,_ Lamarck.
_Bulimus princeps,_ Sowerby.

_Hab._ Nicaragua, Panama, Costa Rico, Veragua, Pernambuco, West Indies.

Few species of the genus affect a wider range of country than the present, and it is owing to the different aspects under which it is found, that the above-recorded synonmes have arisen. The beautiful variety figured in the Conchological Illustrations under the name _B. princeps_ was collected by Mr. Cuming in the woods of Nicaragua where it inhabits the hollows of trees; the more common variety, known as the _B. undatus_, is found in the West Indies and Brazil, and, extremely rich in colour, at Panama and Costa Rico.
BULIMUS.

Plate XVI.

Species 91. (Fig. a and b. Mus. Cuming.)

BULIMUS PECULIUS. Bul. testâ elongato-ovatâ, tenui, ventricosâ, subumbilicatâ, spirâ acuminatâ, anfractibus sex aut septem, longitudinaliter striatâ, labro tenui, simplici; albidâ, fuscescente lincatâ, cornulo-nigricante varietâ fasciatâ aut maculatâ aut punctatâ, apice peculiariter nigricante.

The vari-pictured Bulimus. Shell elongately ovate, thin, ventricose, slightly umbilicate, spire acuminate, whorls six or seven in number, longitudinally striated, lip thin, simple; whitish, stained with pale brown and variously banded, or blotched, or dotted with bluish black, apex peculiarly blackish.

D’Orbigny, Voyage dans l’Amer. Mérid. p. 286. pl. 31. f. 1 to 10.

Hab. Bolivian Andes, South America (at the roots of shrubs); D’Orbigny, Bridges.

An extremely variable species of which D’Orbigny has considered it necessary to give ten figures, mainly distinguished by its acuminated growth and general disposition of colour.

Species 92. (Mus. Cuming.)

BULIMUS PUNCTULIFER. Bul. testâ oblongo-ovatâ, tenuissimâ, umbilicate, anfractibus sex, longitudinaliter striatis, sub lente undique cruberrimâ plano-granulatis, per marginem superiorem hic illic minutis rudibus crenulatis, labro tenui simplici, columnellae reflexae; albidâ, fusco irregulariter lineatâ et punctatâ, epidermide flavigante indutâ.

The dotted Bulimus. Shell oblong-ovate, very thin, umbilicated, whorls six in number, longitudinally striated, under the lens very closely flately granulated, minutely rudely crenulated here and there along the upper margin, lip thin, simple, the columnellar reflected back; whitish, irregularly lineated and dotted with brown, covered with a yellowish epidermis.


Hab. Chili, La Questa Prada, Cuming; La Questa de Arenos, Huasco, Bridges.

Approaching the B. granulosus in form and sculpture, the painting of this shell resembles that of B. Broderipii, though easily distinguished by its dotted indefinite style of pattern.

Species 93. (Mus. Cuming.)

BULIMUS RUPICOLUS. Bul. testâ fusiformi-ovatâ, tenui, spirâ subacutâ, anfractibus quinque ultimo maximo, longitudinaliter rude striatis, undique minutâ granulato-rugosis, labro simplici; albidâ, maculis longitudinalibus punctuosque nigricantibus seriatim pictâ, epidermide flavicante indutâ.

The rock-inhabiting Bulimus. Shell fusiformly ovate, thin, spire rather sharp, whorls five in number, the last very large, longitudinally rudely striated and everywhere minutely granulately rough, lip simple; whitish, painted with rows of black longitudinal blotches and dots, covered with a yellowish epidermis.


Hab. Valleys in the north of Coquimbo (in the crevices of rocks); Bridges.

I think Dr. Pfeiffer has greatly erred in referring this group of Bulimi to the genus Suessica, the type of which is an amphibious animal, like the Lymnea, affecting damp and swampy situations, such as the banks of stagnant pools, in marshes, or on floating vegetable matter. The habits of these species are much opposed to this; dwelling in the dry crevices of the rocks which appear in the sandy plains west of the Andes, where there is little or no moisture beyond that which arises from the dews.

The name variegatus cannot be adopted, in consequence of its having been used under the head of Bulimi by Bruguière in reference to the Tornatella fiammea.

Species 94. (Mus. Cuming.)

BULIMUS THAMNOIDES. Bul. testâ oblongo-ovatâ, tenuissimâ, umbilicate, anfractibus sex, convexis, undique minutis seriatim granulatis, per marginem superiorem crenulatis; fuscescente, lineis nigricantibus nebulosis irregularibus cingulatis.

The shrub-inhabiting Bulimus. Shell oblong-ovate, rather swollen, umbilicated, whorls six in number, convex, minutely granulated throughout in rows, crenulated along the upper margin; light brown encircled with irregular clouded blackish lines.


Hab. Eastern side of the Bolivian Andes, (at the roots of bushes and, during the dry season, in the crevices of rocks); D’Orbigny, Bridges.

May, 1848.
The specimen selected for representation is the Var. D. marmorata of D'Orbigny, the larger varieties in which there are none of the transverse lines serving to characterize this, approximate rather to the B. Tupacii of the same author.

Species 95. (Mus. Cuming.)

Bulimus Coquimbensis. Bul. testa subfusciformi-ovata, tenusimá, ventricosá, anfractibus sex, convexis, subobliquis, longitudinaliter rude striatis, anfractus ultimo maximo, apertura subamplá, labro simplici; albida, fuscescente tinctor, punctis maculis striisque nigricantibus aspersa.

The Coquimbo Bulimus. Shell somewhat fusiformly ovate, very thin, ventricose, whorls six in number, rather oblique, longitudinally rudely striated, last whorl very large, aperture rather large, lip simple; whitish, stained with light brown, and sprinkled with blackish dots, blotches and streaks.


Succinea Coquimbensis, Pfeiffer.

Hab. Mountains of Coquimbo; Cuming.

The painting of this species is also not much unlike that of the B. Broderipii from which it differs most essentially in form.

Species 96. (Mus. Cuming.)

Bulimus piperatus. Bul. testa ovata, tenui, valde inflata, spirâ breviusculâ, acuminatâ, anfractibus quinque, ultimo maximo, obscure rugoso-granulatâ et striatâ, apertura peramplâ, labro vicino reflexo; albida, punctis fuscis perpunctis aspersis, epidermide flavida intus.

The peppered Bulimus. Shell ovate, thin, greatly inflated, spire rather short, acuminated, whorls five in number, the last very large, obscurely roughly granulated and striated, aperture very large, lip scarcely reflected; whitish, sprinkled with a yellowish epidermis.

Sowerby, Conch. Illus. f. 93.

Hab. Hualaga, Peru.

The most inflated of the Succinea-form species, distinguished by a more economical style of painting than its congeners.

Species 97. (Mus. Cuming.)

Bulimus Broderipii. Bul. testa ovata, abbreviato-fusiformi, tenui, valde inflata, spirâ brevi, anfractibus quinque, ultimo maximo, sub lente minuto granulato-rugoso, apertura peramplâ, labro simplici; albida, nigro fulvoque conspicuâ et elegantissimâ maculatâ et variegatâ.

Broderip's Bulimus. Shell ovate, abbreviately fusiform, very thin, greatly inflated, spire short, whorls five in number, the last very large, minutely granulately rugose under the lens, aperture very large, lip simple; whitish, conspicuous and very elegantly blotched and variegated with black and fulvous brown.


Succinea Broderipii, Pfeiffer.

Hab. Copiapo, Chili (in the fissures of rocks); Cuming.

Much smaller varieties of this species occur than that selected for figuring and more richly coloured; it is an extremely thin and fragile shell.
BULIMUS.

PLATE XVII.

Species 98. (Mus. Cuming.)

BULIMUS CULMINANS. Bul. testa oblongo-ovata, tenuicula, anfractibus sex, subrotundatis, longitudinaliter creberrimae et subrude striatis, per marginem superiorem multiliter crenulatis, labro simplici; flavido-olivaceo, apice versus cinereo-roseo.

THE LOFTY-DWELLING BULIMUS. Shell oblong-ovate, rather thin, whorls six in number, somewhat rounded, longitudinally very closely and rather rudely striated, finely crenulated along the upper margin, lip simple; yellowish, faintly olive, pale ash-coloured towards the apex.


Hab. Lake of Titicaca, Bolivia (under stones and at the roots of shrubs upon the mountains); D'Orbigny.

M. D'Orbigny describes this species as inhabiting the most elevated regions of the Bolivian Andes. It is of simple structure and not distinguished by any marked peculiarity of colouring.

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Species 99. (Mus. Cuming.)

BULIMUS NUCLEUS. Bul. testa globoso-ovata, tenuicula, ventricosa, via umbilicata, sub lente minuutissima granulata, anfractibus quatuor, rotundatis, labro reflexo; luteo-olivaceo, peritremate vixidê aurantio.

THE KERNEL BULIMUS. Shell globose ovate, rather thin, ventricose, scarcely umbilicated, very minutely granulated under the lens, whorls four in number, rounded, lip reflexed; yellowish olive, peritreme bright orange.

SOWERBY, Conch. Illus., f. 33.

Hab. Maldanuo, vicinity of Monte Video.

I doubt very much if the shell which D'Orbigny refers to this species (Voy. dans l'Amer. Mérid. p. 305) is anything more than a variety of B. rosacea. It will be seen by the accompanying figure how much this shell resembles that species, though readily distinguished by its light globose structure and bright orange peritreme.

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Species 100. (Fig. a, b, c. Mus. Cuming.)

BULIMUS SORDIDUS. Bul. testa ovata, ventricosa, amplifier umbilicata, spirae brevicula, acuta, anfractibus sex, convexis, ultimo maximo, inflato, creberrimae gra-

nuatius, labro tenui late effuso; sordide alba, aurantio-castaneo plus minusve tincto et fasciato.

THE DULL BULIMUS. Shell ovate, ventricose, largely umbilicated, spire rather short, acute, whorls six in number, the last very large and inflated, very closely granulated, lip thin, widely effused; dull white, more or less stained or variegated with orange chesnut.


Bulimis Protonus and mutabilis, Broderip.

Bulimus Cora, D'Orbigny.

Hab. Mountains of Peru (under stones); Cuming.

The name given to this species by Mr. Broderip is a far more appropriate one on account of its Protonus aspect and pretty varieties of painting, than that to which it is entitled. First collected by M. Lesson during the voyage of the Coquille, it is to Mr. Cuming we are mainly indebted for the beautiful varieties obtained in different parts of Peru, St. Jacinta, Pacosmayo, Truxillo, Santos, &c., out of which Mr. Broderip proposed a second species under the name B. mutabilis. M. D'Orbigny collected the B. sordidus on the arid ridges of the mountain of San-Cristobal near Lima, and I believe his B. Cora from the interior of Peru, of which Mr. Cuming possesses authentic specimens, to be only another state of the same species.

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Species 101. (Fig. a, b, c. Mus. Cuming.)

BULIMUS PERUVIANUS. Bul. testa oblongo-ovata, tenui, imperforata, spirae subacuta, anfractibus quinque longitudinaliter rude et irregulariter rugoso-striatis, interdum transversim obscure punctato-sulcatis, labro simplici, tenuissimo; griseo aut flavido aut fuscescente, sepè roseo et cernulamente variegato.

THE PERUVIAN BULIMUS. Shell oblong-ovate, thin, imperforated, spire rather sharp, whorls five in number, longitudinally rudely and irregularly rugosely striated, sometimes encircled with obscure punctured grooves, lip simple, very thin; greyish or pale yellow or light brown, frequently variegated with pink or blue.

BREGUERIE, Dict. Enc. Méth. no. 37.

Bulimis Gravesii and corrugatus, King.

Hab. Chili (at the roots of shrubs); Cuming.

There is not much variation in the form of this species, but it differs considerably in colour. The animal, unlike

May, 1848.
Tab. 17. f. 100 n. et_qua B. Sordidus Cenom. f. a Ist. Bud. Psstus Brodr. f. 6 = mutabilis Brdr. f. c = hyma Chropent.
most of its congeners, brings forth its young alive, and during the dry season incloses itself within the shell by forming an epiphragm.

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Species 102. (Mus. Cuming.)

**Bulimus Chilensis.** Bul. testâ oblongo-ovata, tenui, subtiliiter creberrimè granulatâ, spirâ subacutâ, anfractiônus sex, longitudinaliter rudè striatâ, labro tenuissimo, simplici; fuscescente, strigis sordidè costanis longitudinalibus hic illic tinctâ.

**The Chili Bulimus.** Shell oblong-ovate, thin, finely very closely granulated, spire rather sharp, whorls six in number, longitudinally rudely striated, lip very thin, simple; light brown, stained here and there with longitudinal dull chesnut streaks.

Lesson, Voy. de la Coquille, pl. 8. f. 3.

*Bulimus granulosis,* Broderip.

*Hab.* Valparaiso and Conception, Chili; Cuming.

Although this shell is exactly similar in structure to that of the preceding species, the animal is not viviparous; it is, however, singularly distinguished by the smallness of its eggs, which are like little peas. It inhabits the mountains of Conception, and is found in ravines near the sea-shore as far as Valparaiso. During the dry season it buries itself in the earth, inclosed by an epiphragm. The shell exhibits little variation of form or colouring.
Bulimus, Pl. XVIII.
BULIMUS.

Plate XVIII.

Species 103. (Fig. a and b. Mus. Cuming.)

BULIMUS NITIDUS. Bul. testá pyramidalis-ovata, temui, subpelliciis, anfractibus sex, convexa, longitudinaliter fortiter elevato-stria, aperturá perecnum, labro simplici; opalescent-rotundus, strigis corneisque-fuscis longitudinalibus ornátus, apicis nigricante.

The shining Bulimus. Shell pyramidal ovate, thin, somewhat transparent, whorls six in number, convex, longitudinally strongly elevated striated, aperture rather small, lip simple; opalescent cream-colour, ornamented with longitudinal bluish-brown streaks, apex blackish.


Ejusdem var. lactea.

Bulimus caecitorum, Broderip.

Hab. Columbia and Peru; Cuming.

Of a delicate opalescent cream-colour with a black apex, and longitudinally streaked with blue-brown, a neat finely corded appearance being imparted to the shell in consequence of the striae which cross the dark streaks remaining cream-colour. The B. caecitorum of Broderip is merely a variety having no streaks.

Species 104. (Fig. a, b, c. Mus. Cuming.)

BULIMUS VARIAENS. Bul. testá elongata, temui, umbilicata, anfractibus septem, convexa, longitudinaliter hic illic rude striata, aperturá perec, labro simplici, alba ant rubellis, costarum exceptiónem aut zonulaté aut longitudinaliter variegata et striata.

The variable Bulimus. Shell elongated, thin, umbilicated, whorls seven in number, convex, longitudinally here and there rudely striated, aperture small, lip simple; white or reddish, most frequently zoned or longitudinally streaked and variegated with chestnut.


Ejusdem varietates.

B. pulchellus and rubellus.

Hab. On the mountains about Truxillo, Peru; Cuming.

The present is a remarkable instance of the variation of colour and pattern in one species in the same locality. The variety Fig. a, (B. rubellus, Brod.) is of a simple reddish nankeen colour; Fig. b, (B. pulchellus, Brod.) is white, reddish towards the apex, encircled by a regular series of dark brown zones; and Fig. c, (B. varians, Brod.) is of the same ground tint as Fig. a, with the addition of numerous irregular motled longitudinal purple-brown streaks. All are characterized by a dark band in the umbilicus which is rather large.

Species 105. (Mus. Cuming.)

BULIMUS LEMNISCATUS. Bul. testá ovata, ventricosa ampliter umbilicata, spirá subpyramidali, acutá, anfractibus septem, rotundatis, levibus, labro simplici, albida, vittis fuscis peculiariter interruptis circumdata, columná et apertura fuscis roseo.

The ribbanded Bulimus. Shell ovate, largely umbilicated, spire somewhat pyramidal, sharp, whorls seven in number, rounded, smooth, lip simple; whitish, surrounded by peculiarly interrupted brown fillets, columella and interior of the aperture pink.


Bulimus vittatus, Broderip (not of Spix).

Hab. Ilo, Peru; Cuming.

The brown bands or fillets which characterize this species are broken up in a peculiar manner into square blotches divided in part by a light transverse dash of white; the columella and interior are pink.

M. D’Orbigny appears to have confounded this and the B. Henouhii together; his Fig. 8 (Voy. Amer. Mér. Pl. 30.) is a variety of the former species, whilst his Fig. 3 and 4 are of the latter.

Species 106. (Mus. Cuming.)

BULIMUS FUSOIDES. Bul. testá elongata, basi effusa, anfractibus sex, levibus, nitidis, columná obliquè contortá, labro vix reflexo; albida, strigis corneisque-fuscis angustis unatis longitudinaliter ornátus, columnát é intensè roseo-purpurea, labro albo.

The fusoid Bulimus. Shell elongated, effused at the base, whorls six in number, smooth, shining, columella obliquely twisted, lip scarcely reflected; whitish, ornamented longitudinally with narrow waved streaks of bluish-brown, columella deep rose-purple, lip white.


Hab. Cacopata, Bolivia (in the woods); Bridges.

May, 1848.
Fig. 104 = Bulwaxillum Wood.
f. 104 a = Pl. rubellus Brodt.
--- b = --- varian Brodt.
--- c = --- pulchellus Brodt.
Art. Geb. 1849, pag. 10
Fig. 106 = Bulswagler Beck.
Of this very characteristic and pretty species, collected in perfection by Mr. Bridges, M. D'Orbigny found but two dead specimens in a damp ravine near the banks of the Rio San Mateo, Cochabamba, Bolivia, on the North-East side of the Eastern Cordilleras. It is chiefly remarkable on account of the patulate effused formation of the aperture and deep rose-purple stained columella.

Species 107. (Mus. Cuming.)

**Bulimus tigris.** Bul. testâ cylindraceo-elongatâ, ampliter umbilicatâ, anfracrâbus septem, levibus aut subtiliar striatis, labro coluenuari sublato expanso, extero simplici, subeffuso; albâ, purpureo-fuscosecente latâ strigâta.

The Tiger Bulimus. Shell cylindrically elongated, largely umbilicata, whorls seven in number, smooth or finely striated, coluenuari sublato expanso, outer lip simple, somewhat effused; white, broadly streaked with purple-brown.

**Broderip, Pro. Zool. Soc., 1832, p. 107.**

**Hab.** Truxillo, Peru (on bushes on the mountains);

Cuming.

Though approximating very closely to the *B. varius*, there is a sufficient variation in the form of this species to render it distinct; the body-whorl is of greater length and the aperture more effused.

Species 108. (Mus. Cuming.)

**Bulimus onca.** Bul. testâ elongato-oblongâ, tenui, subpellucidiâ, anfracrâbus quinque, ultimo maximo, obliquis, longitudinaliter striatis, per marginem superiorem leviter crenulatis, labro viro reflexo; violaceo-fulvis, guttas castaneis hic illic asperâ, coluenuari et aperture fucose rorneosis.

The Jaguar Bulimus. Shell elongately oblong, thin, rather transparent, whorls five in number, the last very large, oblique, longitudinally striated, slightly crenulated along the upper margin, lip scarcely reflected, violaceous fulvous colour, sprinkled here and there with large chesnut dots; coluenuari and interior of the aperture pink.


**Hab.** Tutulima, Bolivia.

It is entirely owing to the enterprising spirit of M. Alcide D'Orbigny that we are indebted for the knowledge of this beautiful species. "Desiring to find a more immediate communication," says that intelligent traveller, "between Cochabamba and Moxas, Bolivia, we made a proposition to the Government of that Republic to make the attempt. The President, General Santa Cruz, furnished us with the means to achieve this undertaking. We set out on foot with a party of Indians to carry provisions, and after passing forty days amid the precipices of uninhabited mountains on the north-east side of the Eastern Cordilleras, and enduring a thousand difficulties and privations we accomplished our journey. It was in this excursion not far from Tutulima that we observed the *Bulimus onca* at the bottom of almost inaccessible ravines in damp woody situations, where it is of rare occurrence and difficult to procure, from its habit of burying itself in the earth."

Species 109. (Mus. Cuming.)

**Bulimus modestus.** Bul. testâ pyramidali, turritâ, ampliter umbilicatâ, anfracrâbus septem, angustis, rotundatis, fortiter et crenulatis concentricâ elevato-striatis, labro simplici; fucosecente, apicem versus albâ, striâs confusâs albis.

The Modest Bulimus. Shell pyramidal, turreted, largely umbilicata, whorls seven in number, narrow, rounded, strongly and very closely concentrically elevated striated; light brown, whitish towards the apex, striâs whitish.

**Broderip, Pro. Zool. Soc., 1832, p. 106.**

**Hab.** Huacho, Peru, (on small bushes on the mountains);

Cuming.

The whorls of this species have rather a tubercular style of growth.
BULIMUS.

PLATE XIX.

Species 110. (Mus. Cuming.)

BULIMUS scutulatus. *Bul. testa pyramidalis, turrita, umbilicata, anfracitibus octo, rotundatis, concentricis ruo striatis, apertura parvisculet, labro simplici; albida, castaneo plus minusque nudique fasciata.*

The cornu-marked BULIMUS. Shell pyramidal, tur- reted, umbilicated, whors eight in number, rounded, concentrically rudely striated, aperture rather small, lip simple; whitish, more or less banded throughout with chesnut.


Hab. Islay, Port Aréquipa, Peru, on the hills, Cuming; on dry rocks near the shore, D’Orbigny.

M. D’Orbigny speaks of this species as existing in situations where there is not the slightest vegetation or moisture even from the dews.

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Species 111. (Mus. Cuming.)


The swollen BULIMUS. Shell oblong-ovate, thin, slightly umbilicated, spire rather short, acute, whors seven in number, fatly concave round the upper part, peculiarly rotundately effused round the lower, lip simple; whitish, stained with yellowish brown, encircled with chesnut lines and singularly shaded bands, columnella rose-purple, apex purple-brown.

Pfeiffer, MSS. Mus. Cuming.


Hab. Ambo, Peru; Cuming.

An extremely pretty shell differing both in its growth and texture from most of the Peruvian species.

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Species 112. (Mus. Cuming.)

BULIMUS elegans. *Bul. testa ovata, tenuissimâ, pellucidâ, inflatâ, anfracitibus quinque, convexis, ultimo maximo, labro simplici; rubello-cornæ, striis albis opacis lineisque nigris undatis longitudinally pictâ.*

The elegant BULIMUS. Shell ovate, very thin, transparent, inflated, whors five in number, convex, the last very large, lip simple; reddish horny colour, longitudinally painted with waved black lines and opaque white streaks.


Hab. La Questa de Arenas, Huasco, Chili (found on a small cryptogamic plant); Bridges.

An extremely delicate shell of a thin fragile Succinea- like texture, strikingly painted with opaque white streaks and black lines.

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Species 113. (Mus. Cuming.)

BULIMUS versicolor. *Bul. testa pyramidalis-ovata, amplior umbilicata, anfracitibus sex, convexis, minuta depressa-granulatis, labro tenue, sublato reflexo; castaneâ, maculis albis varieglata.*

The changeable-coloured BULIMUS. Shell pyrami- dally ovate, largely umbilicated, whors six in number, convex, minutely depressely granulated, lip thin, rather widely reflexed; chesnut, variegated with whitish spots.


Hab. Mongon near Casma, Peru (found on bushes on the mountains); Cuming.

Although this shell varies in its shade and pattern of colour, the specimens all partake more or less of the same red-brown tint which characterizes the *B. Protesis*. In form and sculpture the variation is trifling, and I doubt very much if it should not be arranged, together with *B. untablis*, as a variety of that species.

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Species 114. (Mus. Cuming.)

BULIMUS MONTE-VIDENSIS. *Bul. testa pyramidalis-ovata, tenui, pellucidâ, umbilicâ, anfracitibus septem, convexis, obliquâ irregulariter striatis, labro simplici; pallide striato-nigrum, cornis striis opaco-albis.*

The Monte-Video BULIMUS. Shell pyramidally ovate, thin, pellucid, umbilicated; whors seven in number, convex, obliquely irregularly striated, lip simple; pale straw colour, horny, strie opake-white.

May, 1845.
Fig. 182 von B. elegans Pfr. sst. 
Zitt. 1884, pag. 10.
BULIMUS.—Plate XIX.


Hab. Monte Video, Buenos Ayres (on small trees in swampy places); Cuming.

A very delicate transparent species in which the whorls are concentrically marked with fine opaque-white striae.

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Species 115. (Mus. Cuming.)

Bulimus coturnix. Bul. testa globosely ovate, tenui, in-
flata, six umbilicata, anfractibus quinque, ultimo maxi-
um; labro simplici; fuscocretaceo-albo, maculis grandis
numeriosis subulato-costatis tincta.

The quail Bulimus. Shell globosely ovate, thin, inflated,
scarcely umbilicated, whorls five in number, the last
very large, lip simple; brownish-white, stained with
numerous large blotches of burnt-cesnut.


Hab. Huasco, Chili (on dry stones); Cuming, D’Orbigny.

This is certainly not a variety of B. Broderipii as M.
D’Orbigny intimates, it is, with little or no variation, of a
more globose form and another style of painting.

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Species 116. (Mus. Cuming.)

Bulimus Drapanaudi. Bul. testa subpyramidali-ovata,
anfractibus septem convexit, labro simplici; albo,
striis latiusculis caruleis, roseis, et opaco-albis, lineis
nigris interdum subtiliter undatis interspersis, pulcher-
rum longitudinaliter piecta.

Draparnaud’s Bulimus. Shell somewhat pyramidal-
ly ovate, whorls seven in number, convex, lip simple;
white, very beautifully painted longitudinally with
rather broad streaks of blue, pink, and opaque white,
terpersed with black lines which are sometimes
finely waved.


Hab. Chilon, Bolivia (on the trunks of Cacti); Bridges.

This is truly a gem, exhibiting the gayest display of
colours of any of the cactivorous species.

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Species 117. (Mus. Cuming.)

Bulimus Bridgesii. Bul. testa ovata, umbilicata, pel-
lucida, apice subobtusa, anfractibus quatuor, striis con-
frontissimis et subtiliissimis decussatis, aperturâ parvis-
culâ, labro latâ reflexo, verê integro; sericeo-flavescente,
peritreme albo.

Bridges’ Bulimus. Shell ovate, umbilicated, pellucid,
rather obtuse at the apex, whorls four in number,
very closely and finely decussated with striae, aperture
rather small, lip broadly reflected, almost entire;
silken yellow, peritrema white.


Hab. Friernia, Huasco, Chili (under stones); Bridges.

A delicate transparent shell, resembling B. rosaceus in
form, but certainly distinct from that species. The whorls
are not crenulated along the upper edge, nor is there the
least tinge of rose-colouring; it has more the transparency
of a silkworm cocoon.
BULIMUS.

PLATE XX.

Species 118. (Mus. Cuming.)

BULIMUS RUSSIFERUS. Bul. testa pyramidalis-turrita, umbilicatæ, anfractibus octo, transversis tenuissimis striatis, longitudinaliter peculiariter rugatis, aperture parva, labro simplici; intus castanea fictili-brunnea.

The wrinkled Bulimus. Shell pyramidal, umbilicated, whorls eight in number, transversely very finely striated, longitudinally peculiarly wrinkled, aperture small, lip simple; earthy brown within and without.


Hab. Jacob Island, Gallapagos; Cuming.

Curiously longitudinally wrinkled, whilst the interstices are finely transversely striated.

Species 119. (Mus. Cuming.)

BULIMUS LAURENTII. Bul. testa acuminato-ovalis, subampliter umbilicatæ, anfractibus quinque, subrotundis, levigatis, aperturâ subobverse, labro simplici; albida, rubido-fusca concinna.

The St. Lawrence Bulimus. Shell acuminately ovate, rather largely umbilicated, whorls five in number, rather rounded, smooth, aperture somewhat orbicular, lip simple; whitish, prettily banded with reddish brown.


Hab. Island of San Lorenzo, Bay of Callao, Peru (on stones at the summits of the mountains); Cuming.

An interesting small species existing in great abundance in the localities it inhabits.

Species 120. (Mus. Cuming.)

BULIMUS PRUNOSUS. Bul. testa oblongo-ovalis, tenue, pellucidus, subampliter umbilicatæ, anfractibus quinque, levigatis, apice subpapillari, labro simplici; corneo-albicante, opaco-albo variis.

The snowy Bulimus. Shell oblong-ovate, thin, pellucid, rather largely umbilicated, whorls five in number, smooth, apex somewhat papillary, lip simple; horny white, variegated with opake white.


Hab. Peru; Cuming.

A light transparent horny shell, delicately variegated with irregular opake white spots and streaks.

June, 1848.

Species 121. (Mus. Cuming.)

BULIMUS ESCARIFERUS. Bul. testa oblongato-turrita, umbilicatæ, spiræ antibus impressis, anfractibus septem, depresso-concavis, multique undulatibus seriatim granulatis, aperture subquadraoto-ovali, labro viri reflexo; vestalato-fusca, fasciis angustis rufo-fuscis medio cinctulatæ.

The toasted Bulimus. Shell somewhat elongately turreted, umbilicated, sutures of the spire impressed, whorls seven in number, depressely convex, finely granulated throughout in rows, aperture somewhat squarely ovate, lip scarcely reflected; scorched-brown, encircled round the middle with two narrow red-brown bands.


Hab. Chatham Island, Gallapagos; Darwin.

The granulations of this species are somewhat different from those of the B. Protens; they are more isolated and more distinctly set in transverse rows.

Species 122. (Mus. Cuming.)

BULIMUS RIVASII. Bul. testa acuminato-oblongi, tenue, anfractibus octo, convexis, aperture parvissimula, labro simplici; opaco-albo, striis lineolisque longitudinalibus cornis pellucidis.

Rivas' Bulimus. Shell acuminately oblong, thin, whorls eight in number, convex, aperture rather small, lip simple; opake-white, with longitudinal transparent horny streaks and lines.

D'Orbigny, Voyage dans l'Amér. Mérid. p. 276. pl. 34. f. 8 to 10.

Hab. near Chillon, Bolivia (under dead trunks of Cacti); Bridges.

I have not much doubt that this shell is the B. Rivasii of D'Orbigny, but it is proper to mention that I have no other authority for it than that obtained by a comparison with the description and figure.

Species 123. (Mus. Cuming.)

BULIMUS RUGOSUS. Bul. testa cylindraceo-elongati, sub-Papiformi, umbilicatæ, apice subpapillari, anfractibus octo, leviter concentricâ rugosis, columnellâ supra umbilicum reflexâ, aperturâ parvâ, labro viri dilatato; olivaceo-fusca, fasciis unicus pallidâ medio cinctulatâ.
The slightly wrinkled Bulimus. Shell cylindrically elongated, somewhat Pupä-shaped, umbilicated, apex subpapillary, whors eight in number, slightly concentrically wrinkled, columnella reflected over the umbilicus, aperture small, lip very slightly dilated; olive-brown, encircled round the middle with a single pale band.


Hab. Gallapagos Islands; Cuming.

Of a peculiar red-tinged olive brown-colour and chrysaliis-like form.

Species 124. (Mus. Cuming.)

Bulimus turritis. Bul. testâ elongato-turritâ, imperforâtâ, spira suturâ impressis, anfractibus decem ad udecem, levibus, subdepresso-convexis, aperture paredâ, labro simplici; albâ, rufo-fusco-veste trisulcatis.

The turreted Bulimus. Shell elongately turreted, imperforated, sutures of the spire impressed, whors ten to eleven in number, smooth, depressely convex, aperture small, lip simple; whitish, encircled with four reddish-brown bands.


Hab. Truxillo, Peru (on the mountains); Cuming.

The uppermost of the bands is next the suture of each whorl, the lowest is only shown in the last whorl.

Species 125. (Mus. Cuming.)

Bulimus sculpturatus. Bul. testâ ovatâ, tenuiculâ, vix umbilicatâ, anfractibus septem, subcentricosis, conspicuâ reticulatis rugatis, intersitialis transversâ corrugato-striatis, columnellâ simplici resectâ, labro tenue; intus exstque fictili.

The sculptured Bulimus. Shell ovate, rather thin, scarcely umbilicated, whors seven in number, somewhat ventricose, conspicuously reticulately wrinkled, the interstices being corrugately striated, columnella simply reflected, lip thin; earthy brown within and without.


Hab. Gallapagos Islands (on bushes); Darwin.

The sculpture of this species is precisely that already described in the B. rugiferus and Darwini, from both of which it differs in form, and from the latter more especially by the absence of any callous tubercles in the aperture.

Species 126. (Mus. Cuming.)

Bulimus calyvus. Bul. testâ oblongâ, subturritâ, umbilicatâ, anfractibus septem rotundatis, levibus aut minutis concentricis striatis, aperture paredâ, labro vix dilatato; pallescente brunnæo, ad epiciu migrante.

The bald Bulimus. Shell oblong, somewhat turreted, umbilicated, whors seven in number, rounded, smooth or minutely concentrically striated, aperture small, lip slightly dilated; pale brown, blackish at the apex.


Hab. James' Island, Gallapagos (on dried tufts of grass); Cuming.

A smooth pale brown shell having somewhat an Achatinella-like appearance.

Species 127. (Mus. Cuming.)

Bulimus pustulosus. Bul. testâ subfusciformi-ovatâ, ampliter umbilicatâ, anfractibus sex, subrugosis, striis rudibus granulatis, moniliformibus, longitudinaliter ex-sculptis, columnellâ supra umbilicum reflexâ, labro simplici; intus exstque sordide allâ.

The pustulose Bulimus. Shell somewhat fusiformly ovate, largely umbilicated, whors six in number, rather rough, longitudinally engraved with rude granulated necklace-like striae, columnella reflected over the umbilicus, lip simple; dead white within and without.


Hab. Huasco, Chili (under stones on elevated ground); Cuming.

The necklace-like granulated striae with which this species is longitudinally sculptured are extremely characteristic.
**BULIMUS.**

Species 128. (Mus. Cuming.)

**Bulimus decoloratus.** Bul. testa oblongo-ovatá, anfractibus quinque, medio subangulato-ventricosis, infra suturas peculiariter longitudinaliter crenulatis, labro simplici; albido, fuscescente hic illic tenuiter strigata, parte circa columnellam castaneo-fusco.

The discoloured Bulimus. Shell oblong-ovate, whorls five in number, somewhat angularly ventricose in the middle, peculiarly longitudinally crenulated beneath the sutures, lip simple; whitish, finely streaked here and there with light brown, chestnut brown round the columella.


Hab. Vicinity of Lima, Peru (found buried in the earth under bushes on the hills); Cuming.

The first two whorls of this shell are characterized by a very minute, shagreen appearance, discernible only with the lens, but it may be doubted whether it is of any specific value.

Species 129. (Fig. a and b. Mus. Cuming.)

**Bulimus scalariformis.** Bul. testa pyramidalis-oblongá, ampliter umbilicatá, anfractibus sex, rotundatis, creberrimá concentricá tenuicostátis, aperturá paretá, labro simplici; fuscescente, costis albidis.

The Scalaria-shaped Bulimus. Shell pyramidal oblong, largely umbilicated, whorls six in number, round, very closely concentrically finely ribbed, aperture small, lip simple; light brown, ribs whitish.


Hab. Ancon, Peru; Cuming. Vicinity of Lima; D'Orbigny.

An extremely interesting species of which two specimens are represented, illustrative of its variation of growth. M. D'Orbigny relates having found it in great abundance among the ruins of a temple erected by the ancient Incas in honour of their invisible god, Pachacamac.

Species 130. (Mus. Cuming.)

**Bulimus ustulatus.** Bul. testa oblongo-ovatá, subampliter umbilicatá, anfractibus sex, subrotundis, concentricá rudef streatis, labro simplici; ustulato-fusco, spiraliter varia lineatá.

The scorched Bulimus. Shell oblong-ovate, rather largely umbilicated, whorls six in number, somewhat rounded, concentrically rudely striated, lip simple; burnt brown, variously spirally lineated.


Hab. Charles' Island, Gallapagos (under detached pieces of lava); Cuming.

The lineated pattern of this species is somewhat variable, but it is always characterized by the same scorched brown hue.

Species 131. (Mus. Cuming.)

**Bulimus meridionalis.** Bul. testa cylindraceo-ovatá, tenuicostá, visum umbilicatá, anfractibus sex, peculiariter scabroso-incisis, prope suturas irregulariter lineari-sulcatís, columnellá angulariter contortá, aperturá oblongá, leviter compressa; sordidá alba, aperture fave intus purpuro-rufá.

The southern Bulimus. Shell cylindrickly ovate, rather thin, scarcely umbilicated, whorls six in number, peculiarly scabrously engraved, irregularly linearly grooved near the sutures; columella angularly twisted, aperture oblong, slightly compressed; dead white, interior of the aperture rich purple red.

Hab. Chili; Bridges.

A very singular species, which appears to have escaped the vigilant search of both Cuming and D'Orbigny. It is very unlike any other Chilian species. Of a cylindrically oblong form, its dead white surface is curiously engraved with obtuse or obsolete scales, and the interior is stained with a deep purple-red colour. The columella has a curious angular prominence, which does not, however, form an inner fold as in the Auricula-like species.

Species 132. (Mus. Cuming.)

**Bulimus bilineatus.** Bul. testá pyramidalis-oblongá, umbilicatá, anfractibus septem, convexis, levibus, aperturá parva, labro simplici; fuscescente-alba, lineis duabus rufescensibus cingulatá.

The two-lined Bulimus. Shell pyramidal oblong, umbilicated, whorls seven in number, convex, smooth, aperture small, lip simple; brownish-white, encircled by two reddish lines.


June, 1848.
Hab. St. Elena and Isle of Plata, West Columbia (under stones, and buried at the roots of bushes); Cuming.

Extremely simple in form and colouring.

Species 133. (Mus. Cuming.)

_**Bulimus unicolor.**_ Bul. testa oblonga, subpyramidali, umbilicata, anfractibus sex, subrotundis, concentricis minutiissimi radiis striatis, labro simplici; corna, pelliccia.

The unicoloured _Bulimus_. Shell oblong, somewhat pyramidal, umbilicated, whorls six in number, somewhat rounded, concentrically very minutely rudely striated, lip simple; horny, transparent.


_Hab._ Island of Perico, Bay of Panama (on dead leaves); Cuming.

Very similar in form and general character to the _B. translucens_ and _Panamensis_, and found in nearly the same locality.

Species 134. (Mus. Cuming.)

_**Bulimus cornenus.**_ Bul. testa ovata, subventricosa, umbilicata, anfractibus quinque ad sex, rotundatis, levibus, aut minutiissimi striatis, labro simplici; corna, pelliccia.

The *horny* _Bulimus_. Shell ovate, somewhat ventricose, umbilicated, whorls five to six in number, rounded, smooth or very minutely striated, lip simple; horny, transparent.


_Hab._ Real Llejos, Central America (under decayed grass); Cuming.

A simple transparent *horny* shell, the whorls being somewhat rounded.

Species 135. (Mus. Cuming.)

_**Bulimus Jacobi.**_ Bul. testa ovata, subacuminatâ, ampliâ umbilicata, anfractibus subrotundis, levibus, columellâ supra umbilicam partim expansâ, apertura paulum amplius, labro simplici; corno-fuscescens.

The Jacob _Bulimus_. Shell ovate, somewhat acuminate, largely umbilicated, whorls rather rounded, smooth, columnella partially expanded over the umbilicus, aperture rather small, lip simple; pale brownish.


_Hab._ Jacob Island, Galapagos; Cuming.

Chiefly distinguished from the last species by its large umbilicus, which is not seen in the figure on account of its being partially overlaid by the columellar lip.

Species 136. (Mus. Cuming.)

_**Bulimus Darwinii.**_ Bul. testa subgloboso-ovata, tenuicâ, inflata, umbilicata, anfractibus sex, superne subangulatis, longitudinaliter sculpturis rugatis, interstitiis corrugato-striatis, columellâ subrotunda, tuberculis duobus callosis prominentibus armatâ, apertura subquadratovulata, labro simplici; interstitiis ferrugineo-brunneâ.

**Darwin's Bulimus.** Shell somewhat globose ovate, rather thin, inflated, umbilicated, whorls six in number, slightly angulated round the upper part, longitudinally conspicuously wrinkled, the interstices being transversely corrugately striated, columella slightly twisted, and armed with two prominent callous tubercles, aperture somewhat square ovale, lip simple, earthy brown within and without.


_Hab._ Galapagos Islands (on bushes); Darwin.

It will be observed on comparing this shell with the _B. rugiferus_ and _sculpturatus_, that a uniform peculiarity of wrinkled sculpture prevails in each species; the present is chiefly distinguished by its globose form and by the callosities on the columnella.
BULIMUS.

PLATE XXII.

Species 137. (Mus. Cuming.)

BULIMUS conspersus. Bul. testa ovata, tenui, semi-pellucida, subumbilicata, anfractibus quinque, rotundatis, concentricè obsoletè rudè striatis, ad suturas cremalatis, labro simplici; flaveo-carné, lineis guttulisquè opaco-albis profusè conspersè, peritremate patidiè rosaceo.

The besprinkled BULIMUS. Shell ovate, thin, semi-transparent, slightly umbilicated, whors five in number, rounded, concentrically obsolete but directly striated, crumulated at the sutures, lip simple; yellowish horn, colour, profusely sprinkled with opaque white lines and dots, peritreme tinged with pink.


Hab. Lima (buried in the earth under bushes on the hills); Cuming.

A beautifully delicate horn, species, crowded with effective opaque-white lines and dots, with a pale rose peritreme to the aperture.

Species 138. (Mus. Cuming.)


The swarthy BULIMUS. Shell ovate, ventricose, umbilicated, whors five in number, longitudinally very closely and finely striated, the interstices being reticulately punctured, lip simple; longitudinally waved and variegated with transparent chestnut and white.

Hab. Tacna, Peru.

A prettily marked species approaching somewhat in character to the B. versicolor, but differing materially in form.

Species 139. (Mus. Cuming.)

BULIMUS striatus. Bul. testa subpyramidali-ovata, tenuicollis, subumbilicata, anfractibus quinque, undique concentricè elevato-striatis, costulati sublatè expansi, labro simplici; fuscescente-alba, lineis striatis concentricis castaneis irregulariter notatè.

The striated BULIMUS. Shell somewhat pyramidal-ovate, rather thin, somewhat largely umbilicated, whors six in number, concentrically elevated striated throughout, columella rather widely expanded, lip simple; brownish white, irregularly marked with concentric chestnut-brown lines and streaks.


Hab. Lima (upon the hills); Cuming.

Peculiarly barred here and there in the most irregular manner with dark chestnut brown.

Species 140. (Mus. Cuming.)

BULIMUS erosus. Bul. testa ovata, subumbilicata, spirè breviunculatè, acuminatè, anfractibus sex, ventricosa, longitudinaliter subrugoso-striatis; diampho fuscescens, striis maculatis opaco-albis asperis, apice patidiè rosaceo.

The eroded BULIMUS. Shell ovate, somewhat largely umbilicated, spire rather short, acuminated, whors six in number, ventricose, longitudinally somewhat roughly striated; light diaphanous brown, sprinkled with opaque white streaks and spots, apex pale pink.


Hab. Huantajaya, near Iquiqui, Peru (under stones on the hills, 2,500 feet above the level of the sea); Cuming.

The detail of character is not much unlike that of B. conspersus, but it is a shell of larger size and much more solid growth.

Species 141. (Mus. Cuming.)


The white BULIMUS. Shell ovate, umbilicated, whors five in number, ventricose, somewhat roughly striated, columella rather expanded; opaque-white, here and there diaphanous, interior of the aperture fulvous.


Hab. Copiapo, Chili (in the dry sand on elevated ground near the Port); Cuming.

This species partakes in great measure of the characters

June, 1848.
Fig. 124 an var. Bud. albicans
- 143 syn. de B. Philippyi Pfr.
- 6 = B. Orbignyi Pfr.
Lett. 1849, p. 11.
of B. conspersus and erosus, but is, I believe, sufficiently distinct.

Species 142. (Mus. Cuming.)

**Bulimus apodemetes.** Bul. testa ovata, tenui, inflata, vix umbilicata, anfractibus quinque, subrugoso-striatis, ultimo valde maximo, apertura subamplá, labro tenui; albido.

**The exile Bulimus.** Shell ovate, thin, inflated, scarcely umbilicated, whorls five in number, rather roughly striated, last whorl very much the largest, aperture somewhat large, lip thin; whitish.


I must refer the reader for a better illustration of this species to the above-mentioned magnificent work by M. D’Orbigny, the present uncoloured specimen giving no other idea of it than that of form. In reference to colour M. D’Orbigny says, “the tints are extremely variable according to the localities; at Parana the shell is pale-yellow or dotted, often marked with transverse lines of marbled white and clear brown, with indications of distant clear brown longitudinal lines; at Chiquitos, on the other hand, it is distinguished by longitudinal brown bands only, which are then more conspicuous.”

Species 143. (Fig. a and b. Mus. Cuming.)

**Bulimus striatulus.** Bul. testa pyramidali-oblonga, sub-fusiformi, umbilicata, apice papillari, anfractibus sex, longitudinaliter rugoso-striatis, ad suturas crenulatis; fulvus-fuscescens, guttae opaco-albis longitudinaliter notatae, apice rosacea.

**The finely striated Bulimus.** Shell pyramidally ovate, thin, diaphanous, conspicuously umbilicated, whorls rounded, very beautifully closely concentrically elevately striated, columella reflected, lip simple; pale horn colour, transparent, the stria opake-white, encircled with numerous interrupted whitish bands.


**Bulimus D’Orbignii,** Pfeiffer, Hab. Lima (under stones on the hills); Cuming.

A beautiful species, distinguished by the delicate aspect of its fine opake-white stria upon a transparent horn ground.

Fig. a is a representation of the specimen upon which Mr. Sowerby founded the species, and Fig. b is the shell described by Dr. Pfeiffer under the name B. D’Orbignii.

Species 144. (Mus. Cuming.)

**Bulimus guttatus.** Bul. testa pyramidali-oblonga, sub-fusiformi, umbilicata, apice papillari, anfractibus sex, longitudinaliter rugoso-striatis, ad suturas crenulatis; fulvus-fuscescens, guttae opaco-albis longitudinaliter notatae, apice rosacea.

**The mottled Bulimus.** Shell pyramidally-oblong, somewhat fusiform, umbilicated, apex papillary, whorls six in number, longitudinally rugosely striated, crenulated at the sutures; pale fulvous-brown, longitudinally marked with opake-white speckles; apex pinkish-brown.


Hab. Cobija; Cuming.

This species like others of the plate is characterized by a sprinkling of opake-white spots, and it is distinguished by its papillary apex.
Species 145. (Mus. Cuming.)

**BULIMUS DISCREPANS.** *Bul. testá acuminato-oblongá, tenui, anfractibus sex, levibus, aut sub lente minutissimé transversim impresso-striatís, labro simplicí; lactáé, lineis fuscis subdistantibus oblique pictáé."

The differing Bulimus. Shell acuminately oblong, thin, whors six in number, smooth, or, under the lens, very minutely transversely impressly striated, lip simple; cream colour, obliquely painted with rather distant brown lines.


_Hab._ Conchagua, Central America (found under the bark of a tree); Cuming.

Distinguished by its painting of delicate brown lines, which are placed, for the most part, at equal distances from each other.

Species 146. (Mus. Cuming.)

**BULIMUS MONTAGNEI.** *Bul. testá acuminato-oblongá, tenuiculá, visum umbilicáta, anfractibus septem, levibus, subrotundis, labro simplicí; albád, striigis punctisque ceruleo-nigrancibus longitudinaliter pictáé, aperture fuscé lutescente.

Montagne's Bulimus. Shell acuminately oblong, rather thin, scarcely umbilicated, whors seven in number, smooth, somewhat rounded, lip simple; whitish, painted longitudinally with bluish black dots and streaks, interior of the aperture yellowish.


_Hab._ Chilon, Bolivia (under dead trunks of Cacti); Bridges.

I take this shell to be the _B. Montagnei_ of D'Orbigny from its very accurate resemblance with his Fig. 7 of that species.

Species 147. (Mus. Cuming.)

**BULIMUS HUASCENSIS.** *Bul. testá acuminato-oblongá, subamplexum umbilicáta, anfractibus sex, rotundatis, concentríe irregulariter rugoso-striatís, suturis subprofundí, labro simplicí; ceruleenscente-albá.

The Huasco Bulimus. Shell acuminately oblong, rather largely umbilicated, whors six in number, rounded, concentrically, irregularly, roughly striated, sutures rather deep, lip simple; bluish-white.

_Hab._ Huasco, Chili; Bridges.

A small species collected by Mr. Bridges which is not exactly referable to any of those discovered by Mr. Cuming or M. D'Orbigny.

Species 148. (Mus. Cuming.)

**BULIMUS RUBESCENS.** *Bul. testá subacuminato-ovaldá, umbilicáta, anfractibus sex, rotundatis, concentríe rugoso-striatís, labro simplicí; albád, lineis fuscescentibus longitudinaliter irregulariter nataldá, columnellá et aperture fuscé purpureo-roseis.

The blushing Bulimus. Shell somewhat acuminately ovate, umbilicated, whors six in number, rounded, concentrically roughly striated, lip simple; whitish, irregularly marked with light brown longitudinal lines, columella and interior of the aperture purple-rose.

_Hab._ South America.

A characteristic new species, distinguished by the delicate purple-rose bloom which lines the interior.

Species 149. (Mus. Cuming.)

**BULIMUS UNIFASCIATUS.** *Bul. testá subpyramidali-ovaldá, tenui, cornéd, umbilicáta, anfractibus sex, longitudinaliter subtilíer striatís, labro simplicí; tuto-fuscessante, fasciá angustá, uníc, stramímed media cingulatá.

The one-banded Bulimus. Shell somewhat pyramidal ovate, thin, horny, umbilicated, whors six in number, longitudinally finely striated, lip simple; yellowish-brown, encircled round the middle by a single narrow straw-coloured band.


_Hab._ Charles's Island, Gallapagos (found under detached pieces of lava); Cuming.

A semi-transparent horny shell, mainly distinguished by a narrow pale straw-coloured band by which it is encircled throughout.

June, 1848.
BULIMUS.—Plate XXIII.

Species 150. (Mus. Cuming.)


The nut Bulimus. Shell pyramidal ovate, umbilicated, whorls seven in number, concentrically rudely striated in a wrinkled manner, aperture somewhat squarely ovate, slightly eﬀused; olive-brown, stained with rusty red, blackish at the apex, interior of the aperture bluish-white, brown near the edge.


Hab. Charles’s Island, Galapagos (on bushes); Cuming.

The aperture of this species is frequently compressed at the sides so as to give it a somewhat square aspect.

Species 151. (Mus. Cuming.)

Bulimus deberlitus. Bul. testâ acuminate-ovatâ, ampliter umbilicata, anfractibus sex, subrotundatis, subtillisissimâ granoso-striatis, coeminentâ labroque expansis, apice papillari; cornise-rotundâ, opaco-albo hie illic convorâ.

The forsaken Bulimus. Shell acuminately ovate, largely umbilicated, whorls six in number, somewhat rounded, very finely granosely striated, lip and columella expanded, apex papillate; flesh-white, sprinkled here and there with opake-white.


Hab. Cobija; Cuming.

The name attached to this shell is intended to denote the solitary habitat in which it was found by Mr. Cuming, on flat rocks without soil or verdure, all being desolate for a league around. M. D’Orbigny notices having collected it of a pinky hue, at a greater elevation upon some lichens and cacti.

Species 152. (Mus. Cuming.)

Bulimus vexillum. Bul. testâ oblongo-ovatâ, cornis, subpellucidâ, anfractibus quinque, levigatis, nitidis; intero-albicantâ, fasciis plurimis castaneis cingulâtâ.

The flag Bulimus. Shell oblong-ovate, horny, semi-transparent, whorls five in number, smooth, shining; yellowish-white, encircled by numerous chestnut bands.


Hab. King’s and Suboga Islands, Bay of Panama (on the trunks of large trees); Cuming.

This comparatively well-known species has, I believe, been called B. alternatus by Dr. Beck, in consequence of Mr. Broderip’s name having been formerly applied by Bruguière to the shell commonly known as Achatina vexillum. M. Deshayes does not, however, think there is any necessity for this change, and lest it might add to the confusion I have avoided it.

Species 153. (Mus. Cuming.)

Bulimus pessulatus. Bul. testâ ovatâ, tenui, inflatê, anfractibus quinque, rotondatis, ventricosis, levibus, labro simplici; pollicido-ornatum, epidermide ferrugineo-albo opaco, castaneo longitudinatâ striatâ, strigis distinctâ conspicuis.

The cross-barred Bulimus. Shell ovate, thin, inflated, whorls five in number, rounded, ventricose, smooth, lip simple; transparent horny, covered by a rusty white opake epidermis, crossed with conspicuous distant longitudinal streaks.

Hab. Santa Cruz de la Sierra, Bolivia (on bushes and high grass); Bridges.

This has much the appearance of being an immature shell, but the specimens collected by Mr. Bridges are all alike, and are without doubt of adult growth.

Species 154. (Mus. Cuming.)

Bulimus affinis. Bul. testâ elongato-ovatâ, subfusiformi, umbilicata, anfractibus septem, convexis, longitudinatâ rugoso-striatis, labro simplici; pallido cornis, muculis striatis undatis opaco-albis profuso notatis, apice roseâ.

The allied Bulimus. Shell elongately ovate, somewhat fusiform, umbillicated, whorls seven in number, convex, longitudinally roughly striated, lip simple; pale horny, profusely marked with opake-white waved streaks and spots, pink at the apex.


Hab. Mexillones, desert of Atacama, Peru (in small crevices of the dry earth at an elevation of 2,000 feet above the sea); Cuming.

A light transparent shell covered with delicate flakes of opake-white.
Hah.

Bulimus coloratus. Bul. testá ovatá, ventricossissimá, vic umbilicáta, spirá brevi, anfracțios quinque, tumido-convexi, pulcherrimé minuté promiscuè granulát, ad suturas subtilissimé crenulát, colunnetá picté uníc ascendente, aperturá subamplá, labris laminá callosá functi, peritreme conspiciù reflexo; albífá, flamminis latéis longitudinalibus, maculis striis sacrécolonis umbrátis, epidermide oliváceá indutá, apicem versus castanéá, colunnetá labroque roseis.

The coloured Bulimus. Shell ovate, very ventricose, scarcely umbilicated, spire short, whorls five in number, rather flatly convex, very beautifully minutely promiscuously granulated, very finely crenulated at the sutures, columnella with a single ascending fold, aperture rather large, peritreme conspicuously reflected; pale livid brown, peppered here and there with large chestnut dots, covered with an olive-brown epidermis, peritreme livid brown.

Lamarck's Bulimus. Shell ovate, very ventricose, scarcely umbilicated, spire short, whorls five in number, rather flatly convex, minutely promiscuously obtusely granulated, very finely crenulated at the sutures, columnella with a single ascending fold, aperture rather large, peritreme conspicuously reflected; pale livid brown, peppered here and there with large chestnut dots, covered with an olive-brown epidermis, peritreme livid brown.

Pfeiffer, Monog. Bul.

Hab. Andes of New Granada (at an elevation of about 8,000 feet); Funck.

So closely does this species approximate to the preceding, that I feel somewhat doubtful of the propriety of retaining it; they appear to differ, so far as may be judged by a comparison of the specimens here figured, but it is easy to conceive that a larger series would reveal a much closer affinity between them.

Species 157. (Mus. Demison.)

Bulimus pardalis. Bul. testá oblongo-ováli, subventricosó, crassincultá, anfracțios quinque, subobliqué concolát, apicem versus minutissimé creberrimé obtuso-granulát, per suturas nudique longitudinaliter crenulát, colunnetá contortá, fortifer unispicatá, labró conspicuò reflexo; purpurascens-fusco, longitudinaliter altiflavmátá, epidermide luteoentente-oliváceá indutá, colunnetá et peritremate albis.

The panther Bulimus. Shell oblong-oval, rather ventricose, somewhat thick, whorls five in number, rather obliquely convoluted, very minutely and closely obtusely granulated towards the apex, longitudinally crenulated throughout along the sutures, columnella twisted, with a strong winding plait, lip conspicuously reflected; purplish-brown, longitudinally flamed with white, and covered by a yellowish olive epidermis.

De Férussac, Hist. Moll. terr. et fluv. pl. 112. f. 7. 8.

Bulimus Venezuelensis, Nyst.

Bulimus atrapoides, Jonas.

Hab. Cumana, Venezuela; Funck. Varinas, Venezuela; Dyson.

It is somewhat difficult to recognise this species by the figure of M. De Férussac, it being only known to the illustrious author of the 'Histoire des Coquilles Terrestres'
Fig. 166 a = Bul. Taweni 9th
Zeits. 1849. pag. 12.
in a smaller state deprived of epidermis. The specimen here represented, is from the choice collection of Mr. Dennison, and Mr. Cuming possesses it almost equally fine, selected from the stores of Mr. Dyson obtained during a recent expedition to Venezuela.

The journey performed by Mr. Dyson in this fertile district of South America, in search of objects of natural history, was undertaken through the generosity of a limited number of zoological friends, who, with the hope of enriching their collections, were at the same time desirous of encouraging the zeal of a young naturalist distinguished by his love of adventure. Though not perhaps a very profitable excursion, he collected many interesting species, and has no doubt gratefully responded to the patronage of his friends.

Species 158. (Mus. Cuming.)

**Bulimus Thomasi.** Bul. testá subelongato-oblongá, imperfectá, apice obtusá, anfractibus sex, longitudinaliter striátis, per suturas plano-crenulátis, colunmellá rectá vel paululum arcuátá, labro vis reflexó; livido-cinereá, epidermide cornéa, nitidá, ovicavo-viridi indutá, apice reflexente, anfractuum margine superiore crenulatá albícante, aperture fúce ceruleo-casteñata, juxta peritremam purpurá-nigrice, labris lamíná nígricante-lividá callosum junctis.

**Thompson’s Bulimus.** Shell somewhat elongately oblong, imperfect, obtuse at the apex, whors six in number, longitudinally striated, flatly crenulated along the sutures, columella straight or a little curved, lip but slightly reflected; livid ash colour, covered with a shining horny olive-green epidermis, reddish towards the apex, upper crenulated edge of the whors whitish, interior of the aperture bluish, purple-black towards the peritreme, lips joined by a callous blackish vivid lamina.


**Hab.** Andes de Quito.

A very distinct species remarkable for the same shining horny green epidermis which characterizes the *Helix Bulzii.* (Conch. Syst. vol. ii. pl. 164. fig. 11.)

Species 159. (Mus. Cuming.)

**Bulimus Shongi.** Bul. testá pyramidalí-oblongá, crassá, imperfectá, anfractibus sex, levibus, per suturas sub-crenulátis, labro reflexó; fuscencente, epidermide cornéa rufo-castaneá indutá, anfractuum margine superiori albícante, Columellá et aperture fúce intusé aurantio-rufa, peritremate albícante.

**Shong’s Bulimus.** Shell pyramidal oblong, thick, imperfect, whors six in number, smooth, slightly crenulated along the sutures, lip reflected; light brown, covered with a hornly reddish chesnut epidermis, upper edge of the whors whitish, columella and interior of the aperture deep orange red, peritreme whitish.

**Lesson,** Voy. de la Coquille, Moll. p. 321. pl. 7. f. 4, 5.

**Hab.** New Zealand.

A shell of not uncommon occurrence, always distinguished by the deep orange red colouring of the aperture and rich chesnut epidermis, whilst there is no plait on the columella.

It was first discovered by M. Lesson, during the Voyage of the Coquille, at the Bay of Islands, New Zealand, and named after one of the native Chiefs of that district. Subsequently M. Lesson thought to have recognised his species in Chemnitz’s figure, Conchyl. Cab. vol. ix. pl. 121. f. 1039–40, under the title *Helix auris-Midea* and in De Férussac’s figure of the *B. auris-lovina*, Hist. Moll. terr. et fluv. pl. 159. f. 1, 2, but it is perfectly distinct from these, which (vide Pl. XXX.) are also distinct from each other, and the honoured name of the New Zealand Chief remains to posterity.

Species 160. (Mus. Cuming.)

**Bulimus fulminans.** Bul. testá oblongá, apicem versus peculiariter acuminatá, anfractibus quinque, oblique convolutis, undique longitudinaliter et reticulaté corrugátis, colunmellátá fortiter uniplicatá labro laté reflexó; fuscum-fuscó, subpellucide, striis longitudinalibus acutá angulátis intusé costáncis conspicuó ornatá.

**The Lightning Bulimus.** Shell oblong, peculiarly acuminated towards the apex, whors five in number, obliquely convoluted, longitudinally and reticulately wrinkled throughout, columella strongly one-plaited, lip widely reflected; smoky brown, somewhat transparent, conspicuously ornamented with sharply angled, dark chesnut longitudinal streaks.

**Nystr.** Bull. de l’Acad. Royale de Bruxelles.

**Bulimus bellulus,** Jonas.

**Bulimus Loveeni,** Pfeiffer.

**Hab.** Colonía de Tovar, Venezuela; Dyson.

A somewhat rare species rather sharply acuminated towards the apex, of a peculiar semitransparent smoky brown colour, marked with sharply zigzag longitudinal chesnut streaks.
BULIMUS.

PLATE XXV.

Species 161. (Fig. a and b. Mus. Cuming.)

BULIMUS BLAINVILLEANSUS. Bul. testa ovata, spirá brevisciá, anfractibus quincunc, infalitis, subobliquè convolutis, nudique pulcherrimè longitudinaliter et reticulatè corrugatis, columellá fortiter unipliacatá, labro late reflexo; fumeco-fuscá, striquis castaneis obtú angustatis longitudinaliter piecat, epidermide subtilissimi corrugaté viridi luteo-peculiáti indutá.  

DE BLAINVILLE'S BULIMUS. Shell ovate, spire very short, whors five in number, inflated, somewhat obliquely convoluted, very beautifully longitudinally and reticulately wrinkled throughout, columella strongly one-plaited, lip widely reflected; smoky-brown, longitudinally painted with sharply zigzag chestnut streaks, covered with a very finely wrinkled epidermis, of a green colour sometimes dotted with yellow.

PFEIFFER, Monog. Bul.  
Hab. Zaji, Province of Merida, New Granada; Funk, Linden.

This very beautiful species has precisely the sculpture, colour, and marking of the B. fulminans, overlaid by a remarkable epidermis of a dark green colour, sometimes minutely yellow-dotted, deposited in fine wrinkles resembling those which may frequently be observed on oil-painting that has been exposed to the heat of the sun. It differs in form, being shorter and of a more inflated growth, but is a curious approximation to it in other respects.

Species 162. (Mus. Cuming.)

BULIMUS MORITZIANUS. Bul. testa oblongo-ovalat, ventricoso, anfractibus sex, convexis, levisibus, ad suturas exiliter crenulatis, columellát fortiter unipliacatá, labro reflexo; fuscá, intersecente-albo sope longitudinaliter undato-tringulatá, epidermide olivaceo-viridi, unce levisá, unce corrugatá, indutá, columellá labroque interdum vívidi refo-arrosiáti, interdum fumeco-fuscós.  

Moritz's BULIMUS. Shell oblong-oval, ventricose, whors six in number, convex, smooth, faintly crenulated at the sutures, columella strongly one-plaited, lip reflected; brown, often longitudinally streaked with yellowish white in zigzag pattern, covered with an olive green epidermis, sometimes smooth, sometimes wrinkled, lip and columella bright reddish-orange or smoky brown.

PFEIFFER, Monog. Bul.  
Hab. Chaachopó, Province of Merida, New Granada (in the woods); Funk, Linden.

A fine new species of which Mr. Cuming possesses several examples varying in colour and painting between those selected for illustration. The rich dark green epidermis and deep orange lip and columella present an effective contrast.

Species 163. (Mus. Cuming.)

BULIMUS CALEDONICUS. Bul. testa subtuniforme-oblongá, crassissimi, anfractibus sex, subtunpressis, levisibus, colu-mellá calde incrassatá, medio depressa, deinde producta et tumida, parte superiori tuberulo calcavo mucida, aperitur auriculáti, contractá, labro incrasató, non reflexo, superió late sinusato; fumeco-albá, epidermide castanéa nitidá indutá, columellá labroque albídis, apertura fumce intensè sanguineo-rufá.  

THE NEW CALEDONIA BULIMUS. Shell somewhat fusiforme oblong, very thick, whors six in number, rather depressed, smooth, columella very much thickened, depressed in the middle, then produced and swollen, upper part furnished with a callous tubercle, aperture auriculately contracted, lip thickened, not reflected, broadly sinuated above; brownish-white, covered with a shining chestnut epidermis, lip and columella whitish, interior deep blood red.

PETIT, Magasin de Zoologie.  
Hab. New Caledonia.

A remarkable species, chiefly distinguished by the curious auriculated structure of the aperture; there is no part on the columella, but a prominent callous wart or tubercle. The lip is not reflected but pressed over the aperture, and towards the upper part is characterized by a deep sinus. Were this singularity of growth not proved to be constant in the species, it might have been regarded as an unnatural distortion. We are indebted to M. Petit, a zealous conchologist of Paris, for having described this species, and I have to thank him for sending me a specimen which accords in all respects with those in Mr. Cuming's collection.

June, 1848.
BULIMUS.—Plate XXV.

Species 164. (Mus. Cuming.)

**Bulimus auris-Sileni.** Bul. testa ovato-oblonga, apicem versus abbreviato-tumida, anfractibus quatuor, corrugato-striatis, subrotundatis, obliquè convolutis, columellæ fortissimè nuipticis, pilis vixis productis, labro latè reflexo; fulvæ, striis nigricante-viridibus longitudinalemiter undulatæ, epidermidæ luteo-olivaceæ indutæ, columellæ labroque albis.

The Silenus’ Ear Bulimus. Shell ovately oblong, abbreviately swollen towards the apex, whorls four in number, striated in a wrinkled manner, somewhat rounded, obliquely convoluted, columella very strongly plaited, extremely produced, lip widely reflected; fulvous, longitudinally waved with blackish green stripes, and covered with a yellowish-olive epidermis, lip and columella white.

Bruguiere, Enc. Méth. vol. i. p. 345.

*Auris Sileni,* Born.

*Helix Auris-Sileni,* De Pérussac.

*Anricula coprælla,* Lamarck.

*Carychium undulatum,* Leach.

*Plekocheilus undulatus,* Guilding.

*Hab. ——?*

This is without doubt the original *Auris Sileni* of the Vienna Museum, of which a characteristic representation is given by Born and Chemnitz, and not the shell described by Lamarck under the name *Anricula Sileni.* It is a short thick shell of tumid growth, distinguished by a remarkably prominent plait on the columella and bold oval aperture with rudely reflected lip.
BULIMUS.

PLATE XXVI.

Species 165. (Mss. White.)

Bulimus Adamsoni. Bul. testa sub fusiformi-ovata, ventricosa, spiræ acuminata, pyramidalis, anfractibus sex ad septem, levibus orbiquè tenue striatis; columnella subrectæ, aperturæ paululum effusæ, labro viri reflexo; violaceo-cineræ, basin versus subobliquæ, funce hie illic sparina neblätæ, vitæ conspicua cœruleo-cingulatæ; vitæ alteræ pallidæ obscuræ supra, cœlomellæ purpureo-nigricantes, peritremata violaceæ, intus cœruleo-albo.

Adamson’s Bulimus. Shell somewhat fusiformly ovate, ventricose, spire acuminate, pyramidal, whorls six to seven in number, smooth or obliquely finely striated; columnella nearly straight, aperture a little effused, lip scarcely reflected; violet ash colour, olive-tinted towards the base, sparingly clouded here and there with brown; encircled by a conspicuous blue-white fillet, rather remotely articulated with olive-black, there being another pale obscure fillet above, columnella purple-black, peritreme violet, bluish white within.

Hab. Base of the Purremo, near the volcano of Tolyma, on the eastern slope of the Andes.

This magnificent species was purchased many years since, with the above locality, by John Adamson, Esq., of Newcastle-on-Tyne, and no other specimen has since been heard of. The collection of that gentleman having been recently dispersed, it has fallen into the possession of another eminent amateur oenologist, Henry Hopley White, Esq., through whose kindness and liberality I am enabled to publish it after a long period of obscurity.

It is of an elegant pyramidal fusiform growth, rather ventricose and a little effused towards the base, of a rich olivaceous violet colour, distinguished by a conspicuous white belt remotely articulated with purple-black, and the peritreme of the aperture is of a rich violet.

Species 166. (Mss. Dennison.)

Bulimus Dennisoni. Bul. testa acuminato-ovata, ventricosa, anfractibus quingue ad sex, superior subconico-depressa, superficie striis rugosis undique subtilissimis deussatus, anfractu ultimo peranum, inflato, cœlomellæ subrectæ, aperturæ oblongi, labro vir reflexo; supra cœruleo-albicante, nigricante-viridante et punta tate, infra luteo-olivaceæ, punctis striisque brevibus undatia nigricante-viridibus, intus in uno latere illuminata, pulcherrimæ plecti, zonis albides cingulatæ, quorum inferiori subobscure, peritremata fuscæ, intus cœruleo-albicante.

Dennison’s Bulimus. Shell acuminate ovate, ventricose, whorls five to six in number, slightly concaevely depressed round the upper part, the entire surface being very finely decussated with rough striae, reticulated, last whorl very large, inflated; columnella nearly straight, aperture oblong, lip scarcely reflected; bluish white above, variegated and dotted with blackish green, beneath yellowish olive, very beautifully painted with dots and short-waved streaks of blackish green, illuminated along one side with yellow, and encircled by two whitish zones of which the lower is somewhat obscure, peritreme brown, interior bluish white.

Hab. —— ?

Another fine species, from probably the same fertile region, of which, I believe, only two specimens are known; one, here figured, in the collection of J. Dennison, Esq.; the other, very much worn and discoloured, in the British Museum. It approximates closely to the preceding species in general appearance, but differs materially in its details. In the B. Adamsoni the whorls form a nearly straight pyramidal cone, in the B. Dennisoni they are more ventricose and less pyramidal disposed, whilst the last is proportionably larger, more oblong, and more inflated. The texture of the two shells is dissimilar; the former is smooth or obliquely striated and appears to have a thin horny stratum of semi-transparent epidermis, the latter is finely decussated with rough uneven striae in a manner which is rarely if ever observed beneath a hornym epidermis. The difference of colouring is best described in the accompanying drawings; they are two elegantly painted shells and, as species quite unapproached by any hitherto described, constitute a most interesting and valuable addition to the genus.

July, 1845.
Bulimus. Plate XXVII.

Species 167. (Fig. 167 a, Mus. Dennison. Fig. 167 b, Mus. Cuming.)

Bulimus Powisianus. Bul. testa acuminatum-oblongo, crusato, apice obtusâ, anfractibus levibus, nitidus, vix striatis; columella subcarinata, apertura parvisculatâ, paululum effusâ, labro incrassato, vix reflexo; fulvescente-pudicâ, striiges irregulariis oblique, nigrant-rufescientes, cingulo unico in anfractu ultimo, conspicuâ pictiâ, interdum immaculatâ, cingulo tuntum, columella labroque intene purpureo-violaceo, peristreptate nigrante, apice rufo-costatum.

Powis' Bulimus. Shell acuminate oblong, thick, obtuse at the apex, whorls smooth, shining, scarcely striated, columella slightly arched, aperture rather small, a little effused, lip thickened, but slightly reflected; fulvous bay, conspicuously painted with irregular, oblique, blackish-green streaks, and a single belt round the last whorl, sometimes unspotted, with the belt only, lip, and columella deep purple violet, periphery blackish, apex reddish chestnut.

Petit, Magasin de Zool.

Hab. Valle de Cauca, New Granada

This very beautiful and rare species approximates in a manner to the B. regina, which follows; it is of a less acuminate form, of extremely solid structure, and, excepting the lip and columella, the pattern of colouring is dissimilar. Of the specimens here represented, that from the collection of Mr. Dennison is distinguished by its rich painting of irregular black-green stripes upon a fulvous-bay ground; in Mr. Cuming's specimen the ground colour is unspotted, but in both examples the last whorl is encircled by a characteristic narrow belt of the same dark colour as the stripes.

Species 168. (Fig. a, b, c. Mus. Cuming.)

Bulimus regina. Bul. testa subelongato-oblongo, sapê sinistrali, spirâ pyramidalis-acuminâtâ, apice obtusâ; anfractibus septâ ad octo, levibus vel oblique tenni- striatis, columella subcontortâ, labro simplici; fulvescente-albâ, anfractibus superne fusco violaceo variegatis et articulatis, inferne rufescentibus ac purpureo-nigrifi- cantiâs, columellâ et apertura fuce interdum albis, interdum intene violaceo, nigro marginatis.

The queen Bulimus. Shell somewhat elongately oblong, often sinistral, spire pyramidal acuminated, obtuse at the apex; whorls seven to eight in number, smooth or obliquely finely striated, columella slightly twisted, lip simple; fulvous white, whorls variegated and articulated at the upper part with brown or green, greenish, or purple-black at the lower, aperture and columella sometimes white, sometimes deep violet, edged with black.


Helix regina, De Férussac.

Achatina perverca, Swainson.

Achatina melanostoma, Swainson.

Eadem? Bulimus philogerus, D'Orbigny.

Hab. Fig. 168 a. Interior of Peru; Poeppig. Fig. 168 b. Chopo, Province of Pampona, New Granada; Funck, Linden. Fig. 168 c. British Guyana, Brazil. Bolivia; D'Orbigny.

It will be seen by the above-mentioned localities that the Bulimus regina inhabits a wide range of country, and, by the figures, that it is found under very different aspects, having in some localities a dextral, in others a sinistral growth.

I quite agree with M. D'Orbigny in the propriety of referring this species to the genus under consideration rather than to Achatina; the columella is never strictly truncated, and the shell has all the texture, form, and colouring of a Bulimus.

Figure 90 b. (Mus. Dennison.)

Bulimus zebra. This species is also found under so many different aspects, that I thought it desirable to figure a singular variety from the collection of Mr. Dennison, of which that gentleman possesses several examples exactly similar, brought by some vessel into Liverpool, but he is not aware from whence. It is of a remarkably solid growth, heavy as porcelain, and has no indication of the green which predominates more or less in most varieties. The upper part of the whorls is white, the lower encircled by a broad band of light rust colour, and towards the aperture the whorl is crossed by numerous concentric dark streaks.

July, 1848.
BULIMUS.

PLATE XXVIII.

Species 160. (Fig. 160 b. Mus. Cuming.)

Bulimus fulminans. The shell here represented is that in Mr. Cuming's collection, described by Dr. Pfeiffer under the name of B. Loveni, Pro. Zool. Soc., 1847, p. 239. It is without doubt identical with the B. fulminans described at Pl. XXIV., though lighter in structure and of less acuminate growth.

Species 160. (Mus. Cuming.)


Miller's Bulimus. Shell ovately oblong, spire rather obtuse, whorls five in number, rather swollen, obliquely convoluted, aperture somewhat contracted, lip reflected; chestnut-brown, covered with a silken epidermis, which is transversely minutely granularly crisped, peritreme rose-coloured.

Sowerby, Conch. Illus. f. 94.

Hab. Brazil.

This beautiful species is mainly distinguished by its exquisite silken epidermis, which exhibits two or three bands towards the base, not of colour, but of light and shade, as in a shot-silk.

Species 170. (Mus. Cuming.)


The Mida's ear Bulimus. Shell elongate ovate, a little compressed, whorls six in number, smooth or irregularly roughly striated, last whorl very much the larger, columna furnished with a plait-like callosity, sometimes two, aperture large; fulvous white, covered with an olive chestnut epidermis, interior of the aperture reddish chestnut, peritreme cream colour.


Bulimus fibratus, Gray.

Hab. New Caledonia.

We are informed by Chemnitz in the ninth volume of the Conchyliean Cabinet, published in 1786, that this shell was known to Fawne as "a very rare Buccinum from New Holland bearing some resemblance to the false Midas' Ear," meaning the Auricula Midae, which Bruquière referred to his genus Bulimus under the same specific title as that used by Chemnitz in reference to this. We also learn from the same source that it was known to English collectors upwards of half a century ago, as 'The Midas' Ear from New Caledonia,' Lamarck, however, and his followers appear to have confounded it with the B. auris-bosina, from which, as described at Pl. XXX., it is amply distinguished.

The chief variation in the growth of the present species consists in some specimens being of an elongated form as represented in Chemnitz, and of which a specimen exactly agreeing with that figure is before me, and in others being of a compressed oblong tumid growth, as in the shell represented in the accompanying plate. Both varieties are distinguished by a plait-like callosity on the columna and the rich orange-red painting of the interior, but are equally distinct from the B. Shongi or auris-bosina.

Species 171. (Mus. Cuming.)

Bulimus Funckii. Bul. testa elongato-oblonga, subcylindracea, crassiscutulis, anfractibus quinque ad sex, longitudinalter irregulariter radia striatis, levibus, apice versus subtilissimæ corrugato-reticulatis, columna subarcuata, labro fortiter reflexo; rufo-castanea, epidermide olivaceo-crasse induta, apertura livido-fusa, peritreme fumo-aurantio.

Funck's Bulimus. Shell elongately oblong, somewhat cylindrical, rather thick, whorls five to six in number, longitudinally irregularly rudely striated, smooth, very finely corrugately reticulated towards the apex; columna slightly arched, lip strongly reflected; reddish chestnut, covered with a thick olive epidermis, interior of the aperture vivid brown, peritreme smoky orange.


July, 1848.
BULIMUS.—PLATE XXVIII.

Bulimus superbatus, Jonas.
Bulimus Caripensis, Valenciennes.

Hab. Caripi, Venezuela (in the crevices of high mountains); Funck, Dyson.

First discovered by M. Funck, and subsequently by Mr. Dyson, who found the species in great abundance at Caripi, Venezuela, where the natives were observed to collect and roast the animals for food. It is a rather solid shell of a cylindrically oblong form, and of a peculiar smoky tint of colour.

At the time M. Nyst was engaged in describing this species, it happened that Mr. Cuming, whilst passing through Belgium, observed to him that he had some recollection of its being already described in the Zoological Journal, under the name B. laboe. Upon this M. Nyst, in a subsequent notice of the species, took some considerable pains to exhibit the difference between the B. laboe and Funckii, reproducing the description and figure of the former for comparison, side by side, with the latter. M. Nyst is no doubt to be complimented for his ability and zeal in the matter, but in so doing he unconsciously attaches an importance to a passing conversational remark, a mere lapsus linguae, or rather memoria, which the speaker never intended. The species are too far removed from each other to admit of two opinions.

Species 172. (Mus. Cuming.)

Bulimus melanocheilus. Bul. testa elongato-ovata, subumbilicata, anfractibus sex, longitudinaliter rube striata, per marginem superiorem crenata, apicea versus subtilissimae corrugatae; columnella subcontorta, apertura parvisculata, labro reflexo; castaneo-brunneae, medio et infra suturas indistincte fasciatae, epidermide luteo-olivacea indutae, apertura fane et peritreme livido-nigricantibus.

The black-lip Bulimus. Shell elongately oblong, slightly umbilicated, whorls six in number, longitudinally rudely striated, crenated along the upper margin, very finely corrugated; columnella a little twisted, aperture rather small, lip reflected; chesnut brown, indistinctly banded round the middle and beneath the sutures, covered with a yellowish olive epidermis, interior and peritreme of the aperture livid-black.

Nyst, Bul. Acad. Royale de Bruxelles, vol. xii.—Extrait, p. 8. pl. 3. f. 3 a, b.

Hab. Paraguay.

Chiefly remarkable for the peculiar livid black-lead hue of the enamel, which lines the interior and peritreme of the aperture.

Species 173. (Mus. Cuming.)

Bulimus rhodocheilus. Bul. testa oblongo-ovata, spirá brevissimá, anfractibus quinque, tumidissimis, undique minutissimae granulatis; columnella subcontorta, apertura superne contracta, labro expanso; castaneo, striatis albis longitudinalibus, peculiariter undatis et reticulatis, notata, epidermide cornée intercrescentes indutae, peritreme roseo.

The rose-lip Bulimus. Shell oblong ovate, spire rather short, whorls five in number, somewhat swollen, very minutely granulated throughout; columnella slightly twisted, aperture contracted round the upper part, lip expanded; chesnut brown, marked with longitudinal white streaks which are peculiarly waved and reticulated, covered with a yellowish hornie epidermis, peritreme rose-coloured.

Hab. Brazil.

The light waved marks which distinguish this species have a singular net-work-like appearance, and the peritreme of the aperture is a particularly deep crimson rose.
Species 174. (Mus. Cuming.)

**BULIMUS.**

**BULIMUS MALLEATUS.** Bul. testá oblongo-ovató, infáltá, spirá brevissimá, acumínatório, anfractiis quinque longitudinaliter striátis, transversá peculiariç corrugátís, anfractá ultimo peramplo; columellá fortiter unipicátá, labro lató reflexó; albá, castaneo hic illic sparse irreguláriç maculátá, intus lutescente.

**THE BEATEN BULIMUS.** Shell oblong-ovate, inflated, spire rather short, acuminated, whorls five in number, longitudinally striated, transversely peculiarly wrinkled, last whorl very large; columella strongly one-plaited, lip broadly reflected; white, sparingly and irregularly spotted here and there with chestnut, interior yellowish.

**JAY.** Catalogue of Shells.

**Hab.**

The chestnut spots of this shell, which is now comparatively well known to collectors, have very much the appearance of scattered fragments of horny epidermis.

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Species 175. (Mus. Cuming.)

**BULIMUS FULGURATUS.** Bul. testá oblongo-ovató, umbilícátá, subinfáltá, anfractiis quinque longitudinaliter exilissimó striátís, transversá peculiariç corrugátís, columellá fortiter unipicátá, labro lató reflexó; albá, fusco longitudinaliter nudato-tringátá, epidermide luteo-olivácá indútá, opícum versus rosáceá.

**THE LIGHTNING-STRIUCK BULIMUS.** Shell oblong-ovate, umbilicated, somewhat inflated, whorls five in number, longitudinally very faintly striated, transversely peculiarly wrinkled, columella strongly one-plaited, lip widely reflected; white, longitudinally streaked in a waved manner with brown, and covered with a yellowish olive epidermis, pinkish towards the apex.

**JAY.** Catalogue of Shells.

**Plekocheitus gracilis,** Broderip.

**Bulimus eximius,** mihi, in Conch. Syst.

**Hab.** Feejee Islands.

Although the *B. fulguratus* is of a more cylindrically oblong form than the preceding species, and of a different colour and pattern, it is very similar in regard to sculpture, and in the strongly plaited columella. The transversely corrugated surface of these is rarely met with in the genus.

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Species 176. (Mus. Cuming.)

**BULIMUS HARTWEGII.** Bul. testá elongato-oblongó, sub-cylindrácá, anfractiis sex, convexis, longitudinaliter rubro striátís, per marginem crenulátís, columellá angúlát, rectá, apertúra parvissimá, labro simplicié, eír reflexó; ustulato-spadícé, nigricánto-fusco hic illic irregulariter angúlato striátó, intus violáscenté-albá.

**HARTWEG'S BULIMUS.** Shell elongately oblong, somewhat cylindrical, whorls six in number, convex, longitudinally rudely striated, crenulated along the margin, columella narrow, straight, aperture rather small, lip simple, scarcely reflected; scorched bay colour, irregularly marked here and there with narrow streaks, interior violet-tinged white.

**PFEIFFER,** Monog. *Bul.*

**Hab.** El Catanaija, Loxa, Quito; Hartweg.

The columella, though solidified, seems inclined to roll back, after the manner of those species approaching to *Achatina.*

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Species 177. (Fig. *a.* Mus. Cuming. *Fig. b.* Mus. Dennison.)

**BULIMUS DOWNESII.** Bul. testá pyramidali-oblongó, spirá acuminató, apice obtuso; anfractiis septéna convexis, marginé crenató, concentrici peculiariter plicato-ruptis, rugis hic illic plus minusve tuméfíis; columellá contortá et retrórum curvátá, apertúra subrotundátá, labro reflexó; anfractiis parte superiori purpurascéntis aut ustulato-rufascéntis, rugis hic illic albi, inferiori sepíssimó castaneo-nigráceá, columellá et perírentem roseá, vel pallidó cocceiçá, intus carneolascénté-albá.

**DOWNES' BULIMUS.** Shell pyramidally oblong, spire acuminated, obtuse at the apex; whorls seven in number, convex, crenated at the edge, concentrically peculiarly plicated wrinkled, wrinkles here and there swollen; columella twisted and curved back, aperture somewhat rounded, lip reflected; upper part of the whors purplish or of a burnt red colour, wrinkles here and there white, lower part of the whors most frequently chestnut black, columella and periphery rose or scarlet-tinged, interior bluish white.

**GRAY,** Sowerby, Conch. Illus. f. 99.

**Hab.** Prince's Island, West Coast of Africa; Fraser.

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There are apparently two well-marked varieties of this species, one of a deep burnt red colour, dark chestnut-black round the lower part, with a rose lip as in the richly coloured specimen here figured from the collection of Mr. Dennison; the other of a purplish colour, merely brownish towards the lower part and having the lip tinged with scarlet, as in Mr. Cuming’s specimen.

Several fine examples of B. Dousnei were collected by Mr. Fraser at the above-mentioned island, during his adventure in the unfortunate Niger Expedition.

Species 178. (Mus. Dennison.)

**Bullimuss Auripigmentum.** *Bul.* testa pyramidali-elongata, spirae acuminata; anfractibus septem, levibus, plano-convexis; columella angusta, recta, quasi revoluta, apertura purpurea, labro simplici, acute; peculiariter refescens-spadiceolls, anfractibus flavis brevibus irregularibus erectis, ostiis et albis, basi cingulatis, anfractu ultimo fascia castanea latā.

**The Oepriment Bullimuss.** Shell pyramidally elongated, spire acuminated, whorls seven in number, smooth, flatly convex, columella narrow, straight, as if rolled back, aperture rather small, lip simple, sharp; of a peculiar reddish bay, the whorls being encircled round the base with irregular short erect chestnut and white flames, last whorl with a broad chestnut band.

A very handsome characteristic new species totally distinct from any hitherto known, for which I am indebted to the liberality of J. Dennison, Esq., who possesses two examples agreeing with each other in the minutest detail.

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**Species 179. (Mus. Cuming.)**

**Bullimuss Fayanni.** *Bul.* testa ovalā ventricosa, umbilicata, spirae breviuscula, acuminata, suturis impressis; anfractibus septem, concentricis striatis, levibus, columnā latā, apertura subcontracta, labro vis reflecto; albī, maculis grandibus quadratis, refescens-fuscb superne et inferne nebulatā.

**Fayanne’s Bullimuss.** Shell ovate, ventricose, umbilicated, spire rather short, acuminated, sutures impressed; whorls seven in number, concentrically striated, smooth, columella broad, aperture a little contracted, lip scarcely reflected; white, clouded above and below with large square reddish brown spots.

**Lamarck, Anim. sans vert. vol. viii. p. 227.**

**Helicis Fayanni, Férussac.**

**Bullimuss cinctus, Jay.**

Hab. Eastern Islands.

Easily distinguished by its style of painting, the colour being arranged round the upper and lower parts of the whorls in large oblong-square blotches, generally flowing irregularly one into the other.
BULIMUS.

Species 180. (Mus. Cuming.)

BULIMUS AURIS-VULPINA. Bul. testá ováte, ventricosá, subumbilicátá, spirá subacuminatá, anfractúsus septem, transversum et longitudinaliter rudè rugoso-stiatis, espirá depressá angulato-rollundatís et corrugato-crenátís; columellá profunde excavatá, basi contortá, labro incrassato, rudé reflexo, aperturá sinuatí et contractá; sordide albá, columellá croceo-rufá, apice et aperture fauce pallidé crocatis.

THE FOX-EAR BULIMUS. Shell ovate, ventricose, slightly umbilicated, spire somewhat acuminate, whorls seven in number, transversely and longitudinally roughly striated, depressed angularly rounded and puckered above; columella deeply excavated, twisted at the base, lip thickened, rudely reflected, aperture sinuate and contracted; dead white, columella saffron-red, apex and interior of the aperture faintly tinged with saffron colour.


A. uris vulpina, Cemmiz.  
Voluta auris-vulpina, Dillwyn.  
Halix auris-vulpina, Féussac.

Hab. St. Helena.

A curious species of which several specimens have been found in a semi-fossil state at St. Helena, supposed to have belonged to a mollusk now extinct; none having been collected in a living state.

Species 181. (Mus. Cuming.)

BULIMUS HANLEYI. Bul. testá elongato-oblongá, sub-triáte, tenui, semipellucidá, spirá acuminatá, suturis impressís; anfractúsus septem, levibus, nitidibus, plano-convexis, per marginem superiorem subtilité et creberriam crenulatás, crenulis in sulcis minutis descendentibus, columellá labioque tenuibus, simplicibus; rugo-castaneá, labio iridescente.

Hanley’s BULIMUS. Shell elongately oblong, somewhat turreted, thin, semi-pellucid, spire acuminate, sutures impressed; whorls seven in number, smooth, shining, flatly convex, very finely and closely crenulated along the upper margin, the crenules descending in fine grooves, lip and columella thin, simple; reddish-chesnut, iridescent within.

Pfeiffer, Monog. Bul.

Hab. Brazil; Miller.

A light turriculated shell of a peculiar reddish mahogany brown colour, the sutures of which are somewhat deeply impressed, whilst the upper edge of the whorls is very finely crenulated, the crenules being delicately prolonged.

Species 182. (Mus. Cuming.)

BULIMUS SPIXII. Bul. testá elongato-turríte, subcylindrice, spirá acuminatá, apice concavo-depressá; anfractúsus septem, plano-convexis, longitudinaliter subtilissimum corrugato-striatis, per marginem crenulatás; columellá peculiáriter inciáá, aperturá paráé, labro subincrassato, vis compresso; cornue-fusco, obscurè fasciáte, epidermis lateo-olivaceá indentá, labro et aperture fauce pallidae cornue-rovaeéis, subiridescensibus.

SPIX’S BULIMUS. Shell elongately turreted, somewhat cylindrical, spire acuminate, concavely depressed at the apex; whorls seven in number, flatly convex, longitudinally very finely striated in a wrinkled manner, crenulated along the edge; columella peculiarly notched, aperture small, lip somewhat thickened, but slightly recurved; flesh-tinted brown, obscurely banded, covered with a yellowish-olive epidermis, lip and interior of the aperture flesh-tinted rose, slightly iridescent.

Wagner, Test. Bras. p. 11. pl. 10. f. 3.

Colunna bulimea, Spix.

An eadem junior, Bulimus hyalinus, Wagner.

Hab. Brazil.

The notched columella is a very conspicuous feature in this species, which, in fine condition, is not white as hitherto described, but of a flesh-tinted rose hue, banded with brown and covered by a yellowish-olive epidermis.

Species 183. (Mus. Cuming.)

BULIMUS IMPERATOR. Bul. testá pyramidalí-ováte, anfractúsus sex, levibus, ultímo basíno versus subangulato, columellá rectá; purpureo-nigricante, epidermide spado-crusco-albo, undato-stringatá indentá, aperturá corneolá, columellá roacho-purpescente, peritremate nigricante.

THE EMPEROR BULIMUS. Shell pyramidally ovate, whorls six in number, smooth, last whorl slightly angled.

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towards the base, columella straight; purple-black, covered with an epidermis marked with zigzag streaks of fawn-white, aperture bluish-white, columella pinkish-purple, periphery black.


Bulimus spp., Philippine Islands; Kicurf.

I doubt if 'The Pretender' would not have been a more appropriate name for this shell than 'The Emperor,' for it appears to be simply a variety of *B. pythogaster*. It would, however, be unfair to judge of its claim to rank as a species by a single specimen not in the best condition. Mr. Cuming informs me that it was collected at the Philippines by Dr. Kierulf of Copenhagen, and that there is another exactly similar to it in the collection of M. Janelle of Paris; and further, that he never collected any *B. pythogaster* with this peculiar zigzag style of marking.

Species 184. (Mus. Cuming.)

*Bulimus atomatus*. Bul. testa oblongo-ovata, Achatinae, formi, tenui, anfractibus sex, levibus, inflatis, per marginem leviter crenulatis; columella recta, reflexa, labro externo, tenui, simplici; flavescente-brunnei, castaneo-brunnei. labro minuto undato-lineato et punctato, invet. crenulato-albii.

The minutely dotted *Bulimus*. Shell oblong-ovate, Achatina-shaped, thin, whorls six in number, smooth, inflated, slightly crenulated along the edge; columella straight, reflected, outer lip thin, simple; yellowish-brown, minutely lined and dotted in a waved manner with chestnut-red, interior bluish-white.


*Hab.* Near Fort Macquarrie, New Holland.

A singularly marked species having somewhat the form of the large African *Achatinae*.

Species 185. (Mus. Dennison.)

*Bulimus auris-bovina*. Bul. testa elongato-oblonga, crassae, spirae subacuminate, anfractibus sex, rugoso-strastris; columella incrassata, callositatis uniusbus minuta, quorum inferiori perampli, solidi; aperture parva, peculiariter contracta, labro valde incrasata; refurente-albii, apertura fuce vivida. rufa, columellis labroque eburneis.

The ox-ear *Bulimus*. Shell elongately oblong, thick, spire somewhat acuminated, whorls six in number, roughly striated, columella thickened, furnished with two callusities, of which the lower is very large and solid, aperture small, peculiarly contracted, lip very much thickened; reddish-white, interior of the aperture deep red, lip and columella ivory white.

Bruguiere, Enc. Méth. dict. no. 80.

*Auricula bovina*, Lamarck.

*Helix auris-bovina*, Förussac.

*Hab.* Eastern Islands.

The *Bulimus Shongi* and *auris-Mides* have each been confounded in its turn with the present species, which is eminently distinguished from them; first, in being of a natural white, which obtains a reddish hue, owing to the interior being very deeply stained with that colour; secondly, in the aperture being small and much contracted; thirdly, in being of more solid growth, and fourthly, in the lip and columella being like white porcelain or polished ivory.

Species 186. (Mus. Cuming.)

*Bulimus Dombeyanus*. Bul. testa ovata, umbilicata, spirae brevissima, macronata, anfractibus sex ad septem, subrotundata, concentricae ruga; columellae subconicante, reflexa, labro latissime expanso et reflexo; alba, columellae et apertura fuce intenso laqueo-purpureis.

Dombey's *Bulimus*. Shell ovate, umbilicated, spire rather short, pointed, whorls six to seven in number, somewhat rounded, concentrically wrinkled; columella a little twisted, reflected, lip very widely expanded and reflected; white, interior deeply coloured with purple-lake.


*Hab.* Mexico.

This beautiful and very rare species is chiefly remarkable on account of the trumpet-like expansion of the aperture, which is of a deep purple-bronze colour.
BULIMUS.

PLATE XXXI.

Species 187. (Fig. a, Mus. Hudson; Fig. b, Mus. Cuming.)

BULIMUS CITRINUS. Bul. testá subelongato-ovatá, crassiusculá, ant déxtrá aut sinistrá, anfractibus sex ad septem, subrotundatis, levibus, nitidis; viridó citrino-flava, interdum rufescenté-fusco fiammatá, prope suturas albó, vittá longitudinali castaneo-nigrá interdum pictá, labro et peritremae albís.

The citron BULIMUS. Shell somewhat elongately ovate, rather thick, either dextral or sinistral, whors six to seven in number, somewhat rounded, smooth, shining; bright citron yellow, sometimes flamed with reddish brown, white near the sutures, sometimes painted with a chestnut-black longitudinal fillet, lip and perimere white.

Bruguier, Enc. Méth. dict. no. 27.
Helix pervera (pars?), Linneus.
Helices dextra, and sinistra, Muller.
Helix aurea, Férussac.

Hab. Moluccas.

This species is so well known by its long-established name, B. citrins, that I have hesitated to adopt the Linnean title Helix pervera, believing it probable that the author of the Systema Nature, included more than one reversed species under that appellation.

Species 188. (Mus. Cuming.)

BULIMUS ATRICALLOUS. Bul. testá oblongo-ovatá, basín versus subifátá, spirá acuminátá; anfractibus sex ad septem, subrotundatis, levibus, nitidis, labro expanso, laté reflexó; albido, viridescente-luteo tinútá, parte supra columellam laminá calloide interfusá purpurae-nigrá indútá, anfractá ultimo vittá similis longitudinali pictá, aperturá albá.

The black-callous BULIMUS. Shell oblong-ovate, somewhat inflated towards the base, spire acuminated, whors six or seven in number, somewhat rounded, smooth, shining, lip expanded, widely reflected; white, stained with greenish yellow, the part above the columella covered with a callous deep purple-black lamina, last whorl painted with a longitudinal fillet of the same colour, aperture white.

Hab. Tavoy, Burmah.

I fear there is not much difference between this and the preceding species, beyond the callous purple-black lamina which lines the interior of the body-whorl, and is of somewhat doubtful importance.

Species 189. (Mus. Cuming.)

BULIMUS LINDENI. Bul. testá cylindraceo-oblóngá, crassiusculá, apice obtusé depressed, anfractibus quinque ad sex, decussatis rudó striatis et sublitter indentatis, per marginem exílitér crenulátis; columna nuípectá, aperturá parviscudul, labro subincisa, reflexo; lacté, nigro sparvis striágitá, apicem versus purpurascente, epidermide olivaceo-viridi indentá, apertura fonce carulecente-albá, labro pallidó crocato.

LINDEN'S BULIMUS. Shell cylindrically oblong, rather thick, apex obtusely depressed, whors five to six in number, decussately rudely striated and finely indented, faintly crenulated along the margin; columnella one-plaited, aperture rather small, lip somewhat thickened, reflected; cream colour, sparingly streaked with black, purplish towards the apex, and covered with an olive-green epidermis, interior of the aperture bluish white, lip pale saffron colour.

Bulimus leptochelis, Pfeiffer.
Hab. La Baja, Province of Pamplona, New Granada; Funck, Linden.

Notwithstanding the importance which is very properly attached to the priority of names, there are exceptions, as in the instance before us, in which a name may require to be changed. The term leptochelis, or thin-lipped, denotes a character which is not found in the adult species; the shells of all Bulimi are "thin-lipped" in an immature state, and many remain so at maturity; but in the species under consideration, the lip is thickened and rather widely reflected. I therefore venture to name it anew, in honour of the indefatigable botanist and shell-collector, to whom we are indebted for so many beautiful species of Bulimi from the luxuriant district of New Granada.

Species 190. (Mus. Cuming.)

BULIMUS PLANIDENS. Bul. testá oblongo-oviformi, tenui-culd, spirá brevi, acuminátá, anfractóquaque quinque, tu-midis, longitudinaliteter crêbririgé corrugato-striátis, striis minutissimis transversis sub lente decussátis, apé-
Fig. 189 an var. B. Moritziani et
Sect. 187, pag. 19.
Fig. 187 a = B. seversus Ap. & D. B. Sch.
tortu obtuso-ovata, parviscula, contracta, labro dente unico planulato instructo; olivaceo-virescente, apertura carulescente-alba, peritremate intempe purpureo-roseo.

The flat-toothed Bulimus. Shell oblong-egg-shaped, rather thin, spire short, acuminated, whorls five in number, swollen, longitudinally very closely striated in a wrinkled manner, and, under the lens, crossed with very minute transverse striae, aperture oblong-square, rather small, contracted, furnished with a single flattened tooth; light olive-green, aperture bluish white, peritreme deep purple-rose.

Michelin, Magasin de Zool. pl. 25.

Hab. Brazil.

The surface of this species, in fine condition, has a delicate silken aspect, occasioned by a multitude of extremely fine transverse striae, which are scarcely discernible without the aid of a lens. The epidermis is of a peculiar plum-green colour, and the lip of an intense purple-rose, distinguished by an oblong flattened tooth.

Species 191. (Mus. Cuming.)

Bulimus pudicus. Bul. testa obtuso-ovata, spirare breve, acuminata, anfractibus quinque tumidissilibus, undique striatiorugatis, columella uniplicata, labro expanso, latere reflexo; olivaceo-rufa, peritreme nunc alba, nunc vivida roseo.

The chaste Bulimus. Shell oblong-ovate, spire short, acuminated, whorls five in number, rather swollen, striately wrinkled throughout, columella one-plaited, lip expanded, widely reflected; olive-red, peritreme sometimes white, sometimes deep rose.


Helix pudica, Linnaeus, Syst. Nat. (Gmelin’s edit.) p. 3645.

Partula pudica, De Ferussac.

Helix pudica, Moricand.

Auris virginea, Chemnitz.

Voluta auris-virginis, Dillwyn.

Bulimus virginius, Bruguier.

Strophocheilus Alveida, Spix.

An cadem var. Bulimus perplexus, Sowerby.

Hab. Brazil.

M. Deshayes has already observed that the shell figured by Chemnitz under the name of Auris virginea (Conch. Cab. vol. ix. pl. 121. f. 1042) has a different aspect from that commonly known to us as the B. pudicus, figured in the accompanying plate, and among the shells collected by Dr. Spix in Brazil. The Auris virginea has more the form of a Partula, but I find no shell to correspond with it, and take it to be merely another state of the species under consideration.

(Species 192. Mus. Cuming.)

Bulimus unidentatus. Bul. testa obtuso-ovata, spirare breve, acuminata, anfractibus quatuor ad quinque, tumidis, subrugosis, apertura parviscula, labro reflexo, dente unico obtuso instructo; albidá, roseo tincta, columella labroque purpureo-castanea.

The one-toothed Bulimus. Shell oblong-ovate, spire rather short, whorls four to five in number, swollen, rather rough, aperture somewhat small, lip reflected, furnished with a single blunt tooth; whitish, tinged with rose, lip and columella purple-cinnamon.


Hab. Brazil.

I am not aware that any example of this species is known in fine condition with its epidermis. It is of more solid growth than the B. planidens, and of a less oblong form, whilst the tooth is short and blunt, not oblong and flattened. The species differ essentially also in colour.
BULIMUS.

PLATE XXXII.

Species 193. (Mus. Cuming.)

**Bulimus Guerinii.** Bul. testâ oblongo-ovâdâ, tenuicâlâ, apice subobtusâ, anfractuâs quinque, testâbus, subflâtis, columnellâ subcomptordât, labro vix reflexo; intemâ olivaceâ, luteo longitudinaliter striatâ, aperture peritremate avarantio.

Guerin’s Bulimus. Shell oblong-ovate, rather thin, somewhat obtuse at the apex, whorls five in number, smooth, slightly inflated, columnella somewhat twisted, lip scarcely reflected; very dark olive, longitudinally streaked with yellow, peritreme of the aperture orange.


Hab. New Granada.

Although much smaller in size and of comparatively lighter growth, this species approaches so closely to the *B. Moritzianus*, which is found in the same locality under a multitude of aspects, that I fear it may prove to be only a dwarf variety.

Species 194. (Mus. Cuming.)

**Bulimus crystallinus.** Bul. testâ conico-ovâdâ, tenui, pellucidâ, calde inflatâ, anfractus quinque ad sex, transversim undique subtillisimâ impresso-striatâ, anfractus ultimo peranpolo, basi versus obtusâ carinato, columnellâ concavo-depressâ, vix reflexâ, labro tenui, simplici; pellucido-albâ, columnellâ brunnescente.

The Crystalline Bulimus. Shell conically ovate, thin, pellucid, very much inflated, whorls five to six in number, transversely very finely impressly striated throughout, last whorl very large, obtusely keeled towards the base, columnella conceavely depressed, slightly reflected, lip thin, simple; transparent white, columnella pale brown.

Hab.—?

Of very peculiar form, and differing in all respects from any species hitherto described. It is a light transparent shell, transversely engraved with fine striae, very much inflated, and indistinctly angled towards the base.

Species 195. (Mus. Cuming.)

**Bulimus monozontus.** Bul. testâ subpyramidali-ovâdâ, apice obtusâ, anfractibus quinque, rotundatis, oblique striatis, columnellâ rectâ, labro vix reflexo; rufescente-brunnâceâ, zonâ latissimâ albo, in anfractu ultimo ten- tum conspicâ, cingulâtâ; epithemide fusce indutâ, peritremate nigricante.

The Coenobalt Bulimus. Shell somewhat pyramidal ovate, obtuse at the apex, whorls five in number, rounded, obliquely striated, columnella straight, lip but slightly reflected; reddish brown, encircled by a rather wide white zone, conspicuous only on the last whorl, and covered with a brown epidermis, peritreme blackish.


Collected in the Philippine Islands by Dr. Kierulf of Copenhagen, and apparently distinct from any of Mr. Cuming’s species.

Species 196. (Mus. Cuming.)

**Bulimus Gibbonius.** Bul. testâ ovâdâ, umbilicatâ, crus-sinnâceâ, ventricosâsan, anfractibus quatuor ad quinque, longitudinaliter rudâ striatâ, undique minutâe grun-lâtis, anfractus ultimo peranpolo, inflato, columnellâ subcomptordât, labro reflexo; castaneco-rufescente, fusco spinosâ punctâtâ, aperture albidd.

Gibbon’s Bulimus. Shell ovate, umbilicate, rather thick, extremely ventricose, whorls four to five in number, longitudinally rudely striated, minutely granulated throughout, last whorl very large, inflated, columnella slightly twisted, lip reflected; chestnut red, sparingly dotted with brown, aperture whitish.


Hab. Between La Plata and Tocaima, New Granada; Dr. Gibbon.

Distinguished by the widely-inflated and rapid enlargement of the last whorl; of a chestnut colour, besprinkled with dashes of brown.

Species 197. (Mus. Cuming.)

**Bulimus castaneus.** Bul. testâ ovâdâ, vix umbilicatâ, ventricosâsan, anfractibus quatror ad quinque, longitudinaliter rudâ striatâ, grunatis rudibus oblongis propinquis seriaturi cingulâtis, anfractus ultimo peranpolo, inflato, labro vix reflexo; intest insignis fumoso-castaneâ.

The Chestnut Bulimus. Shell ovate, scarcely umbilicate, extremely ventricose, whorls four to five in

July, 1848.
number, longitudinally rudely striated, encircled near the sutures with rows of rude oblong granules, last whorl very large, inflated, lip but slightly reflected, smoky chestnut-brown within and without.

Hab. Vegas, on the river Quendeu, New Granada.

It may be observed that this shell is almost equally ventricose and inflated with the preceding species, though not exactly of the same form. It is, moreover, of lighter structure, and, instead of being covered with granules, it has merely a few near the sutures of a rude oblong shape, set in exact rows more or less distant from each other.

Species 198. (Mus. Cuming.)

**BULIMUS GALLINA-SULTANA.** Bul. testá conico-ovátá, tenni, ventricossíssimá, anfractibus sex ad septem, rotundátis, striis minuti sub lente undítatis, anfractú ultimo peramplò, infíato, labro simplici; albiócente, olivaceo-viridí maculáto et variegátà, epidermide flavidd undítata.

**The sultan-powel BULIMUS.** Shell conically ovate, thin, extremely ventricose, whorls six in number, transversely very closely striated, side rough and minutely undulated, last whorl very large, inflated, lip simple; whitish, blotched and variegated with olive green, and covered with a yellowish epidermis.


*La poule sultane*, Pavanne.

*Helix gallina-sultana*, Chemnitz.

*Achatina pavonina*, Spix.

Hab. Bolivia; D'Orbigny.

“We met with the *B. gallina-sultana*," says M. D'Orbigny, “in the hot damp forests, inhabited by the savage Guarayos, in the centre of the republic of Bolivia. There, they bury themselves among the roots of trees and only come forth during the rainy season; they then crawl upon the trunk and stems to inhale the moisture, and as soon as the rains begin to cease, they descend and again bury themselves in the earth, where they remain concealed until the following season.”

Species 199. (Mus. Cuming.)

**BULIMUS HETEROTRICHUS.** Bul. testá conico-ovátá, sub-globósá, umbilicátá, anfractibus sex ad septem, rotundátis, striis undítatis, labro exilíter reflexó; olivaceo-flavidd, epidermide setósá indítata, setis subtilibus, in seriósus spirálíbus subdistantíbus.

**The differently-bristled BULIMUS.** Shell conically ovate, somewhat globose, umbilicated, whorls six to seven in number, rounded, under the lens minutely decussated throughout with striae, columella rather broad, lip delicately reflected; olive yellow, covered with a bristly epidermis, of which the bristles are fine and arranged in rather distant spiral rows.


Hab. Brazil,

Well characterized by its delicate bristly epidermis, deprived of which, the species may be equally recognised by its peculiar form and minute decussated sculpture, looking, as it were, like a fine web of punctures.
BULIMUS.

PLATE XXXIII.

Species 200. (Mus. Cuming.)

**BULIMUS SIGNATUS.** Bul. testa oblongo-ovalat, umbilicatat, spirat brevi, acuminatat, asfractatuis quinque, rugulosus, columnellâ basi calloso, radê plicatâ, apertura angustat, contractâ, auriforii, labro reflexo et laterimâ concepexpanso; albât, fasciis tribus latit simigcatbatius cinguatât, funeque nebulatâ, apice nigrat, labro eburneo.

The marked BULIMUS. Shell oblong-ovate, umbilicated, spire short, acuminated, whorls five in number, rough, columnella callous at the base and absolutely plaited, aperture narrow, contracted, ear-shaped, lip reflected and very widely convex expanded; whitish, encircled with three broad blackish bands and clouded with brown, apex black, lip ivory white.

_Auricula signata_, Wagner, Moll. Brésil, p. 17. pl. 12. f. 3.

_Helix signata_, Moreicand.

_Hab._ Brazil.

The wide-spread development of the lip is rather a peculiar feature in this species. It is not uncomman.

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Species 201. (Mus. Cuming.)

**BULIMUS BILABIATUS.** Bul. testa ovat, spirâ acuminat, asfractatuis quinque, subrotundatuis, rugulosus, sub lente minutat radê retiennis et foratim, peculiariter oblique plicato-cordatis, costis compressis; columnellat subcontortât, apertura auriformi, labro indique bisecto; sordidâ albât, fusce hic illic tinellât, parte suprar columnellan aurea,en grani, nunc purpureo-nigrat.

The two-lipped BULIMUS. Shell ovate, spire acuminated, whorls five in number, somewhat rounded, rough, under the lens minutely reticulate and punctured, peculiarly obliquely plicated ribbed, ribs compressed; columnella rather twisted, aperture ear-shaped, lip divided in twain all round; dead white, stained here and there with brown, the part above the columnella sometimes orange, sometimes purple-white.


_Helix maximiliana_, Férussac, MSS.

_Hab._ Brazil.

The name _B. maximiliana_ of De Férussac does not appear to have been published. There is a very characteristic dwarf state of the species exhibiting the same varieties of colouring as those of a larger growth.

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Species 202. (Mus. Cuming.)

**BULIMUS TAUNAYSII.** Bul. testa elongato-oblongat, subcylindraceat, asfractatuis sex ad septem, convexis, levibus, longitudinaliter striatis, columnellat subcontortât, labro tegmine, viz reflexo; fulvo vel nigricante-fuscato, zonulâ pallide angustâ cinguatât, columnellât albât.

TAUNAY'S BULIMUS. Shell elongately oblong, somewhat cylindrical, whors six to seven in number, convex, smooth, longitudinally striated, columnella somewhat twisted, lip rather thin, scarcely reflected; fulvous or blackish brown, encircled by a pale narrow zone, columnella white.


_Helix Taunaysii_, Férussac.

_Hab._ Brazil.

The shell named _B. magnificus_ by M. Grateloup is, according to the specimens so marked in Mr. Cuming's collection, a variety of _B. Taunaysii_ of a lighter brown colour.

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Species 203. (Fig. a. Mus. Dennison. Fig. 5, and c. Mus. Cuming.)

**BULIMUS MELANOSTOMA.** Bul. testa oblongo-ovalat, spirat subacuminat, asfractatuis quinque ad sex, undique peculiariter oblongo-granulatuis, per marginem minutâ crenulatâ et plicatâ, plicis subamplis distantiis, in asfractis ultimo evanisidis; columnellâ contorta, labro lato reflexo, interdum partim bisecto; roseo-albicante, fuscente obscure nebulatâ, spirâ apica versus nux roasceat, inter plicas nigricantes, apertura partim vel omnino purpureo-nigrat, interdum croceo marginatâ.

The black-mouth BULIMUS. Shell oblong-ovate, spire somewhat acuminated, whors five to six in number, peculiarly oblong-granulated throughout, minutely crenulated along the margin, and plicated, the plats being rather large and distant, fading away in the last whorl; columnella twisted, lip widely reflected, sometimes partially bisected; pinkish-white, obscurely clouded with pale brown, spire frequently pinkish towards the apex, blackish between the folds, aperture partially or entirely purple-black, sometimes edged with saffron yellow.

_Swainson_, Zool. Illustrations, vol. i. pl. 4.

July, 1848.
Helix melanostoma, Pérussac.

Auris melanostoma, Spix.

Eadem. Helix rhodospira, Moricand.

Hab. Brazil.

The varieties of this species are strongly indicated in the distribution of the colouring matter of the aperture.

In most specimens the aperture is wholly lined with rich purple black, as in fig. 203 c.; in some, the lip is produced a second time outwardly, as in fig. 203 a, bordered with saffron yellow; whilst in others, as in fig. 203 b, the aperture is white, and no purple-black is seen, excepting on the body whorl above the columella.
BULIMUS.

PLATE XXXIV.

Species 204. (Mus. Dennison.)

BULIMUS POPELAIRIANUS. Bul. testâ ováte, ventricosis- sinus, crassiusculã, subcompressa, onfractibus inauditis, superne crenulatâ, apicem versus concentricâ subdis- tenter liratis et minutissimâ granulatâ; columella arcuata, eteâ superne callosa, labro incrustato, reflexo; castaneo-brunneascence, epidermide crassâ cornâ brun- neis, in striis longitudinalibus acútâ sudatis interdum peculiariter dissolutâ, indutâ; apertura livida, labro albo.

POPELAIR'S BULIMUS. Shell ovate, extremely ventricose, rather thick, somewhat compressed, whorls swollen, crenulated round the upper part, concentrically somewhat distantly ridged and minutely granulated towards the apex; columella arched, callous at the upper part with age, lip thickened, reflected; light chestnut-brown, covered with a thick brown epidermis, which is sometimes peculiarly dissolved, as it were, in longitudinal zigzag streaks; aperture livid, lip white.


Eadem. Bulimus fulguratus, Valenciennes.

Bulimus Valenciensiæi, Pfeiffer.

Hab. Brazil.

This fine zigzag-marked species, distinguished under the above names by Pfeiffer and Valenciennes, is, without doubt, the same described by M. Nyst in the Transactions of the Royal Academy of Brussels in honour of the Baron de Popelair. Mr. Cuming possesses a specimen, like M. Nyst's, quite destitute of the zigzag marking, which is not a distribution of colour, nor the result of a double-membrane arrangement of the epidermis, as in the Philippine species; it has rather the appearance of being partially dissolved, as though it were occasioned by the percolation of some solvent out of the sutures, though incapable of such an explanation.

Species 205. (Mus. Cuming.)

BULIMUS EGREGIUS. Bul. elongato-oblongâ, fusiformi, umbilicatâ, onfractibus convexissimis, superne concavis, mediâque crenatis plano-granulatis, granulis in series transversis ad intervallum subdistantia, majoribus, onfractu ultimo basi angulato-compresso; apertura oblongo-ovali, basi angulata et canaliculata, labro sub- expanso et reflexo, marginibus lirâ angulata callosâ junctâ; castaneo-fuscâ, luteo flavamâtâ, labro intense rosâ.

THE CHOSSEN BULIMUS. Shell elongately oblong, somewhat fusiform, umbilicated, whorls rather convex, concave round the upper part, very closely flatly granulated throughout, granules in transverse rows, at rather distant intervals, larger, last whorl angularly compressed at the base; aperture oblong-oval, angulated and channelled at the base, lip slightly expanded and reflected, margins joined by a narrow callous ridge; chestnut-brown, flamed with yellow, lip deep rose.


Bulimus hybridus, Gould (side Pfeiffer).

Hab. Brazil, in the vicinity of Rio Janeiro; Gould.

I much doubt whether this is anything more than a variety of the B. goniostoma. I have not met with it in a state intermediate between the specimens here represented, but it is certain that the sculpture of B. egregius is precisely that of B. goniostoma in an exaggerated and more luxuriant condition, whilst the species are alike in form.

Species 206. (Mus. Cuming.)

BULIMUS GONIOSTOMA. Bul. testâ elongato-oblongâ, fusiformi, umbilicatâ, spirâ acuminatâ, onfractibus convexissimis, superne concavis, mediâque crenatis plano-granulatis, granulis in series transversis ad intervallum subdistantia, majoribus, onfractu ultimo basi angulato-compresso; apertura oblongo-ovali, basi angulata et canaliculata, labro subexpanso et reflexo, marginibus lirâ angulata callosâ junctâ; basi, labro intense rosâ.

THE ANGLED-MOUTH BULIMUS. Shell elongately oblong, fusiform, umbilicated, spire acuminated, whorls slightly convex, concave round the upper part, very minutely and closely granulated throughout, the granules in transverse rows at rather distant intervals a little larger, last whorl compressed at the base; aperture oblong oval, channelled at the base, lip somewhat expanded and reflected, margins joined by a callous ridge; brown, lip deep rose.

Cochlogona goniostoma, Férussac, Prodrome, No. 441.

Pupa goniostoma, Gray.

Goniostoma erubescens, Swainson.

Hab. Brazil.

Quite an isolated form of the genus, few species presenting much approximation to this in respect of its angular oblong channelled aperture, besides the preceding and one or two of smaller size, to be described hereafter, from the Province of Merida, New Granada.

August, 1848.
BULIMUS.

PLATE XXXV.

Species 207. (Mus. (? olím Soc. Zool. Lond.)

The accompanying figure, copied from the Zoological Journal, Tab. Supp. xxxi, represents a very remarkable species of Bulimus, deposited some years since in the Zoological Society's Museum. The shell, however, disappeared shortly afterwards from the collection, together with some rarities, and the species has never since been obtained or heard of. It only remains therefore to copy the description also.

BULIMUS LABEO. Bul. testá ovato-productá, fusco-castaneá, apicem versus rubrís, fusco variá, anfractibus sex, ventricosis, ultimo fasciis duabus nigris, hác mediá, illá suturel; pentúltimo fasciis duabus nigris, suturel; columnálá dente obtuso insigni; lóbro crassíssimo, réflexo, supra pallidí castaneo, infra nigro; apertura intus albídá.

THE BLISTER-LIP BULIMUS. Shell ovately produced, brown-chestnut, red towards the apex, variegated with brown, whorls six in number, ventricose, the last with two black bands, one round the middle, the other next the suture, penultimate whorl with two bands, both sutural; columnellá with a remarkable obtuse tooth, lip very thick, reflected, pale chestnut above, black beneath, interior of the aperture whitish.

Hab. Peru.

To quote Mr. Broderip's more minute description of this remarkable lost species — "Shell stout, long oval, of a brown chestnut colour, changing to red at the apex and on the upper whorls, which last are longitudinally striped with reddish brown towards the suture. Whorls six, ventricose; the last has a narrow band across its middle, and another of the same colour close to the suture, which is white; the last whorl but one has two narrow black bands, both near the sutures; the lower bands on the last and penultimate whorls are each thrice interrupted. On the last whorl, near the base, which is very dark, is a faint, broad, lighter coloured band. The columnella is remarkable for its obtuse white tooth, surrounded by the rich dark colouring of the aperture. The right lip is of huge thickness, and much reflected: above, it is of a light chestnut colour; below, of a rich brownish japan-like black, which, particularly where it is shading off into the chestnut, gives, when the light is thrown full on it, the same kind of iridescent appearance as is seen in the Lunachella, or Fire-marble. The lower edge of this rich lip is punctured pretty thickly with dots, resembling those of Cyprea testudinaria, which seem filled with a whitish opaque substance, and the formation of which has given an irregular, and almost fungus-like appearance to the reflected border of the lip, on its upper side. The interior of the aperture is white. Length three inches; breadth, measured across the body whorl, and including the lip, one inch and six-eighths."

"This fine shell, of a much firmer fabric than most land-shells, was obtained by Lieut. Maw, R.N., in a rancho (farm-house) at Touleca, about nine leagues to the eastward of Chachapoyas, in Peru, on Christmas day, 1827. It had been taken on the chaca (farm) to which the rancho belonged. The chaca is situated at the highest limit of the montana, or woody district, on the eastern side of the Andes, at an elevation of about 8000 feet above the level of the sea. The species was frequently seen by Lieut. Maw in the woods between Chachapoyas and Moyabamba. Two of a much larger size than the individual here described, were found by him alive, and given in charge to the arriero (muleteer), with a special injunction to take care of them. The arriero, supposing that they were to be prepared for breakfast, roasted them, and thus destroyed the shells."

"Spix has not mentioned this shell, and I have reason to believe that there is no other specimen in this country. Whether the species is confined within narrow limits in the almost untrodden district traversed by Lieut. Maw, will be an interesting subject for future inquiry. This enterprising traveller is the first European who has performed a journey across the continent of South America in the line of the Maranon, or Amazon River. After passing from Truxillo across the Andes to Chachapoyas he embarked upon the river in Peru, and proceeded throughout its course to Para. In the course of this expedition he collected several animals, which he has liberally presented, together with the subject of this memoir, to the Zoological Society.”

Species 208. (Mus. Cuming.)

BULIMUS LACUNOSUS. Bul. testá oblongo-ovató, anfractibus subventricosis, longitudinaliter striatis, striis brevibus impressis peculiariter subtilissimis notatis, apicem versus minutá granulatis et radiatis liratis, columnálá línia contorta, lóbro reflexo; línio-brunneo, longitudinaliter obscuró fasciáto, epidermide tenuiculá corné indutá, lóbro albo.

August, 1848.
The ravin-inhabiting Bulimus. Shell oblong-ovate, whorls somewhat ventricose, longitudinally striated, and peculiarly very finely marked besides with short impressed strie, minutely granulated and radially ridged towards the apex, columella scarcely twisted, lip reflected; livid brown, longitudinally obscurely banded, covered with a rather thin heavy epidermis, lip white.


*Hab.* Cochaambua, Bolivia (in deep ravines at the base of the snowy peaks of the Cordilleras); D'Orbigny.

Intermediate, in a manner, between the *B. maximus* and *ovatus*, of smaller size, and apparently distinct. In the specimen here figured from Mr. Cuming's collection, the surface is curiously marked by numerous rows of short longitudinal hollowed stride; it is also encircled by a couple of scratched grooves, but these are evidently the result of accident.

Species 209. (Mus. Cuming.)

*Bulimus granulosus.* Bul. testâ oblongo-ovatâ, anfractibus ventricosis, longitudinaliter ruder stratis, minime minutè granulatis, prope apicum subobscurè radiantis striatis, columellâ subcontortâ, labro reflexo; luteo-brunescente, epidermide tenuiculâ indutâ, columellâ labroque pallidê roseis, aperture funce caruleo-albicante.

The granulose Bulimus. Shell oblong-ovate, whorls ventricose, longitudinally ruder striated, minutely granulated throughout, somewhat obscurely radially ridged near the apex, columella somewhat twisted, lip reflected; yellowish brown, covered with a thin epidermis, lip and columella pale rose, interior of the aperture bluish white.

*Helix granulosa,* Rang. Descr. coquilles terrestres, p. 49. pl. 2.

*Hab.* Brazil.

It is much to be feared whether this is not truly a variety of the *B. ovatus*. The typical differences are as follows:—in form the *B. granulosus* is of a less shortened umid growth than the *B. ovatus*, and in sculpture, it is more prominently granulated throughout, whilst the radially ridged about the apex are more obscure; it is, moreover, of a lighter tint of colour, and varies considerably in the nature of the epidermis, which in this species is slight and fibrous, but in the *B. ovatus*, is thick, heavy, and shining.

Species 310. (Mus. Cuming.)


The oblong Bulimus. Shell oblong-ovate, scarcely umbilicated, sometimes rather large, thin, and ventricose, sometimes smaller, thick, and ponderous, whorls convex, more or less sculptured with rib-like striae, lip reflected; fulvous-bay, lip and columella deep rose.

*Helix oblonga,* Muller, Verm. vol. ii. p. 86.

*Bulimus hemastoma,* Scopoli, Lamarek.

*Hab.* Eastern coast of South America.

This well-known species inhabits a wide range of country, and varies greatly in size and substance according to the local conditions of climate and vegetation, at one time large and ventricose like the specimen selected for illustration, at another smaller, thick, and ponderous, with the lip not unfrequently thickened to an extent truly remarkable.

M. D'Orbigny has some curious remarks on the habits and age of this species. "The Bulimus oblongus," says this intelligent traveller and naturalist, "buries itself deeply in the earth during the dry season, and comes forth at the time of the rains. Towards the close of the rainy season, it deposits its cretaceous eggs in the earth, and the young escape from them during the first rains which follow." The author then goes on to describe that about two or three years is occupied in the formation of the shell, when, having arrived at the age of maturity, the lip is reflected, and at a more advanced stage becomes more or less thickened according to circumstances. After an examination of what he considers to be annual marks of increase of growth, Mr. D'Orbigny arrives at the conclusion that the *Bulimus oblongus* lives for a period of about ten years.
Balimus, Pl. XXVI.
BULIMUS.

PLATE XXXVI.

Species 211. (Fig. a, Mus. Cuming, Fig. b and c, Mus. Dennison.)

BULIMUS FOGILLATUS. Bul. testá oblongo-ovatá, anfractibus sex, striis longitudinalibus arcuatis peculiariar notatis, per marginem superiorem crenelatis, crenulis subdistantibus; columnálla revoluta; aperturá amplá, effusá, labro expanso; pulliá stramineá, vel purpurascence-spudiceá, maculis fasciisque coeruleo-nigratis tinctis, columnálla et aperturá fuscé roseo-purpureis.

The cherished BULIMUS. Shell oblong-ovate, whors six in number, peculiarly marked with arched longitudinal strie, crenulated along the upper margin, crenules rather distant; columnella rolled back; aperture large, effused, lip expanded; pale straw colour, or light saffron colour, sometimes painted with bluish-black bands and blotches, columnella and interior of the aperture rose-purple.

Hab. Vera Cruz, South America.

A delicate and graceful species, extremely variable in its external colouring, but constant so far as regards the rose-purple painting of the aperture and columnella.

Species 212. (Mus. Dennison.)

BULIMUS OVAUS. Bul. testá subabreviato-ovatá, tumida, apice subobtusa; anfractibus quinque, longitudinaliter radé striatis, apicem versus granulatis et subtiliter radíasuris liratis, labro fortiter reflexo; roseo-fuscascence, epidermide cornes olivaceae nitente indatu, aperturá coerulescente-albá, labro vicido roseo.

The ovate BULIMUS. Shell somewhat abbreviately ovate, swollen, rather obtuse at the apex; whors five in number, longitudinally rudey striated, granulated and finely radiately ridged towards the apex, lip strongly reflected; rose-brown, covered with a shining olive horny epidermis, aperture bluish-white, lip bright rose.

Bruguier, Enc. Méth. Dïct. no. 33.

Helix ovatus, Muller.

Busa ovata, Chemnitz.

Hab. Brazil.

This fine species is remarkable for its curious abbreviately turgid growth, whilst it has a peculiar shining horny epidermis, and the lip is mostly of an unusually deep crimson rose.

Species 213. (Mus. Cuming.)

BULIMUS ABYSSORUM. Bul. testá oblongo-ovatá, lunulatá, subinflata, unbilicata, anfractibus sex, rugoso-striatis, columnálla revolutá, labro subexpanso; albida, rugo-brunnea longitudinaliter striatá et maculatá.

The abyss-inhabiting BULIMUS. Shell oblong-ovate, rather thin, somewhat inflated, unbilicate, whors six in number, roughly striated, columnella rolled back, lip somewhat expanded; whitish, longitudinally streaked and blotched with reddish-brown.


Hab. Pampa Ñuás, eastern declivity of the Bolivian Andes (amongst stones at the roots of Cacti); D'Orbigny.

Towards the base of the shell the roughly striated sculpture produces almost the effect of obtuse granules.

Species 214. (Mus. Cuming.)

BULIMUS FENESTRATUS. Bul. testá oblongo-ovatá, sub-fusiformis, unbilicata, anfractibus sex ad septem, peculiariter nodulatis corrugatá et sulcutá; columnálla subplicata, obliquá recedente, plano-revolutá; albida, maculis fasciisque fascio-nigratis conspicue fenestratá, columnálla et aperturá fuscé roseo-purpureocentibus.

The window-painted BULIMUS. Shell oblong-ovate, somewhat fusiform, unbilicate, whors six to seven in number, peculiarly undulatey wrinkled and grooved; columnella slightly plaited, obliquely receding, flatly rolled back; whitish, conspicuously latticed with brownish-black blotches and bands, columnella and interior of the aperture lilac.


Hab. Mexico.

Perfectly distinguished from the preceding species in form, whilst the undulating grooved sculpture is peculiar.

Species 215. (Mus. Cuming.)

BULIMUS HYBOHYLEUS. Bul. testá subpyramidali-oblongó, Partuiformis, ampliá unbilicata, anfractibus

September, 1848.
BULIMUS.—PLATE XXXVI.

septem, longitudinaliter rugoso-striatis; columella latâ, subrecedente, labro latâ plano-reflexo; abdita, ceruleo-nigrionte quinquefasciata et maculata, labro nitidâ albo.

The damp-woods BULIMUS. Shell somewhat pyramidal oblong, Partula-shaped, largely umbilicated, whorls seven in number, longitudinally roughly striated; columella broad, slightly receding, lip broadly and flatly reflected; whitish, encircled by five bands of bluish-black blotches, lip shining white. D’Orbigny, Voy. dans l’Amér. Mérid. Moll. p. 311. pl. 40. f. 3—5.

Hab. Province of Santa Cruz, Bolivia (in damp forests); D’Orbigny.

A very characteristic species readily distinguished from the preceding by the Partula-like growth of the aperture.
BULIMUS.

PLATE XXXVII.

Species 216. (Fig. a and d, Mus. Cuming.)

**Bulimus levus.** Bul. testa pyramidalio-oblongo, subcy- 
tindraceo, crassa-usculato, interdum umbilicato, anfractu- 
bos septem, subrotundus, levibus; aperturâ parviscula, 
suborbiculari, labro fortiter reflexo; rufo-aurantiâ 
at tentâ, fasciis rufo-olivaceis aut viridis cingulatum, 
interdum longitudinaliter maculatum aut striatâ, labro 
nitiûdo albo.

The left Bulimus. Shell pyramidal oblong, some- 
what cylindrical, rather thick, sometimes umbilicated, 
whorls seven in number, somewhat rounded, smooth; 
aperture rather small, nearly orbicular, lip strongly 
reflected; reddish orange or yellow, encircled with 
red-olive or green bands, sometimes longitudinally 
blotched or streaked, lip shining white.


**Helix lara.** Muller.

**Hab.** Amboina and the Moluccas.

Little need be added to assist in the recognition of this 
well-known species, which is of a more pyramidal growth 
than *B. citrinus*, and distinguished by a greater variety of 
colouring. It is mostly sinistral.

Species 217. (Mus. Cuming.)

**Bulimus lactarius.** Bul. testa ovata, ventricosusculato, 
unbilibicato, spirâ subacuminatâ, anfractibus sex ad 
septem, convexis, levibus, ant longitudinaliter ven-
tricosiâ striatâ; columellâ latissimâ, labro simplici; cer- 
ium albâ, fumeo-rufo-ascendente interdum tintâ, foveis opaco-
alis irregulariâ aspersâ.

The milk-spotted Bulimus. Shell ovate, rather ven- 
tricose, umbilicated, spire somewhat acuminate, 
whorls six to seven in number, convex, smooth, or 
longitudinally finely striated; columella rather broad, 
lip simple; waxen-white, tinged with 
smoky red, sprinkled with irregular flakes of opaque 
white.

Menke, MSS.

**Hab.** Mexico.

The curious opaque-white flakes with which this shell is 
marked, constitute an important specific character.

Species 218. (Mus. Cuming.)

**Bulimus Goudoti.** Bul. testa ovata, tenuissimâ, pellucidâ, 
ventricosa, anfractibus quinque, longitudinaliter rude 
striatâ, labro tenui, simplici; rufo-fuscâ, epider-
mide corned olivaceo nitente inductâ, apertura fune 
iridescente.

Goudot's Bulimus. Shell ovate, very thin, transparent, 
ventricose, whorls five in number, longitudinally 
rudely striated, lip thin, simple; pale reddish brown, 
covered with a shining olive horny epidermis, interior 
of the aperture iridescent.

Petit, Mag. de Zool.

**Hab.** Eastern Cordilleras, New Granada.

An extremely delicate shell of little more substance 
than a glassy film, protected by a thick shining horny 
epidermis.

Species 219. (Mus. Cuming.)

**Bulimus Dufresni.** Bul. testa cylindraceo-ovato, oleo-
formâ, apice obîsâ; anfractibus quinque, apicea versus 
minute granulatâ, per marginem crenulatâ, columellâ 
subrecedente, labro simplici; intero-iridescente, olivaceo-
fuscâ fasciata et lineât.

Dufresne's Bulimus. Shell cylindrically ovate, olive-
shaped, obtuse at the apex; whorls five to six in 
number, minutely granulated towards the apex, 
crenulated along the margin, columella slightly reeding, 
lip simple; yellowish green, banded and lined with 
dark olive brown.

Leach, Zool. Misc. vol. 2. p. 158. pl. 120.

**Hab.** Van Diemen's Land.

The painting of this species is mostly represented by a 
conspicuous central band, with fine longitudinally waved 
lines above and below it.

Species 220. (Mus. Cuming.)

**Bulimus contusus.** Bul. testa oblongo-ovato, crassa-
usculato, septissimâ sinistrâ, anfractibus septem, convexis, 
levibus, labro reflexo; albidâ, usitato-fusce tinctâ et 
hie illic irregulariter longitudinaliter striatâ, labro 
alive, columellâ et peristomato labri purpureoventre-
fuscis.

The bruised Bulimus. Shell oblong-ovate, rather 
wide, most frequently sinistral, whorls seven in 
number, convex, smooth, lip reflected; whitish, 
stained and irregularly longitudinally streaked here

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and there with burnt brown, lip white, columnella and outer edge of the lip purplish brown.

_Hab._ Eastern Islands.

This is unquestionably distinct from the _B. citrinus_, with which it has been hitherto confounded.

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_Species 221. (Mus. Cuming.)_

**Bulimus crassilabris.** _Bul. testa ovala, cylindracea, umbilicata, anfractibus septem, convexis, longitudinally sulcato-striatis, columnella latâ, aperture parvisculâ, rotundâ, labro simplici; albâ, aurantiaco-fusco latâ bisectâ, versus apicem rosâcet._

_The thickened-lip Bulimus._ Shell ovate, cylindrical, umbilicated, whorls six in number, convex, longitudinally roughly striated, finely crenulated at the suture, columnella rather broad, lip thin, simple; whitish, more or less stained with burnt brown.

_Pfeiffer, Pro. Zool. Soc. 1846, p. 31._

_Hab._ Chaco, Bolivia.

Of rather light growth, crenulated at the suture in a manner extremely characteristic.

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_Species 223. (Mus. Cuming.)_

**Bulimus chloris.** _Bul. testa conico-ovala, glandiformis, umbilicata, anfractibus sex ad septem, plano-convexis, longitudinale sulcato-striatis, suturarâ subtilius subtilius creberrimâ_; _columnella latâ, aperture parvisculâ, rotundâ, labro simplici; albidâ, aurantiaco-fusco latâ bisectâ, versus apicem rosâcet._

_The canary-bird Bulimus._ Shell cylindrically oblong, somewhat fusiform, sinistral, whors six to seven in number, convex, smooth or longitudinally very minutely striated, columnella broad, somewhat callous, aperture rather small, lip reflected; deep citron yellow, lip and columnella white.

_Hab._ Eastern Islands.

Though approximating very closely in general aspect to the _B. citrinus_, I feel strongly convinced that this is a distinct species: the difference of form is permanent.
BULIMUS,

PLATE XXXVIII.

Species 224. (Mus. Cuming.)

**BULIMUS SEX-DENTATUS.** *Bul. testa cylindraceo-oblonga, Pupiformi, basi carinata et umbilicata; anfractibus octo, plano-convexis, longitudinalibus corrugato-strictis et sulcatis, ultima pone labrum bisoraliculato, labro subexpanso, apertura subquadrate, sex-dentata; corno-albida, apertura saccis hinc illis purpureo-fuscis tincta.*

**The SIT-TOOTHED BULIMUS.** Shell cylindrically oblong, Pupa-shaped, keeled and umbilicated at the base; whors eight in number, flatly convex, longitudinally striated and grooved in a wrinkled manner, last whorl with two indentations behind the lip, lip somewhat expanded, aperture rather square, six-toothed; horny white, interior of the aperture stained here and there with purple-brown.


**Pupa sex-dentata**, Wagner.

Hab. Brazil.

Of a peculiarly cylindrical form, grooved and striated in a wrinkled manner much after the fashion of a Pupa.

Species 225. (Mus. Cuming.)

**BULIMUS PUNCTULATISSIMUM.** *Bul. testa cylindraceo-fusiformi, basi subcarinata et umbilicata, spire anturis sub-impressis; anfractibus octo ad novem, transversis sub-lamnatis strictis et undique superficiciler indentatis, labro lati et expanso, apertura subcontracta, septem-dentata; semipellucidulo-alba, opaco-alba ad suturis, apertura saccis purpureo-fuscis.*

**The FINELY PUNCTURED BULIMUS.** Shell cylindrically fusiform, slightly keeled and umbilicated at the base, sutures of the spire somewhat impressed; whors eight to nine in number, transversely very finely striated and everywhere superficially indented, lip broadly expanded, aperture somewhat contracted, seven-toothed; semi-transparent white, opake white at the sutures, interior of the aperture purple-brown.

**Clasilia punctulatissima**, Lesson, Voyage de la Coquille, pl. 15. f. 3.

**Pupa septem-plicata**, Rossmasher.

Hab. Brazil.

It is incorrect to say that this shell is punctured; the surface is covered with superficial indentations, and it is encircled throughout with very fine impressed striae.

Species 226. (Mus. Cuming.)

**BULIMUS JANNIRENSIS.** *Bul. testa cylindraceo-fusiformi, umbilicata, anfractibus octo ad novem, cornes, nitidulus, striis obliquis, elevatiusculis, opaco-albis, fascis longitu-

Species 227. (Mus. Cuming.)

**BULIMUS EXEBUS.** *Bul. testa oblongo-fusiformi, umbilicata, anfractibus octo, subventricosis, peculiariter corrugatis et longitudinalibus indentatis, labro latissimae expanso, apertura subquadrate-ovali, quadridentata, dentibus laminatis; griseo-albicante, labro purpureo-rufescente.*

**The WORM-EATEN BULIMUS.** Shell oblong-fusiform, umbilicated, whors eight in number, somewhat ventricose, peculiarly wrinkled and longitudinally indented; lip very widely expanded, aperture somewhat squarely ovate, four-toothed, teeth laminated; greyish white, lip purple-red.


**Pupa exesa**, Wagner.

**Pupa ringens**, Jay.

**Odontostoma exesa**, Beck.

Hab. Brazil.

A fine species in which the surface is peculiarly longitudinally indented, the lip widely expanded, and richly coloured, and the teeth of the aperture prominent.

Species 228. (Mus. Cuming.)

**BULIMUS ODONTOSTOMA.** *Bul. testa cylindraceo-elongata, basi bicarinata et subanpliter umbilicata, anfractibus septem, convexis, obliquè creberrima subtilibus striatis, striis elevatis, minutissimis granulis; apertura producta, septem-dentata, marginibus conjunctis; cupro-fuscac, apertura rubescete.*

**The TOOTED-MOUTH BULIMUS.** Shell cylindrically elongated, double-keeled and rather largely umbilicated at the base, whors seven in number, convex, obliquely very closely finely striated, strie raised, very minutely granulated; aperture produced, seven-toothed; coppery-brown, aperture reddish.

**Sowerby, Zool. Journ.**, vol. i. p. 59. pl. 5. f. 3.

**Pupa odontostoma**, Gray.

**Cochlidium Gargantu**, De Férussac.

October, 1848.
BULIMUS.—PLATE XXXVIII.

Clausilia Garganx, Deshayes.
Pupa erythrostoma, Menke.
Odonotostoma Garganx, Beck.
Macrodontes Swainson.

Hab. Brazil.

Distinguished by its delicate coppery brown colour, which obtains a satiny hue from the strie being granulated.

Species 229. (Mus. Cuming.)

Bulimus Grayanus. Bul. testa cylindraceo-elongata, lateraliiter compressed, subcontortâ, basi conspiciû carinata et umbilicata, anfractibus sex, striis spiralis et obliquis undique depressis et retroversis, apertura ovalis producta, octo-dentata, marginibus conjuncitis; fusce, apertura livido-purpureascens.

Gray's Bulimus. Shell cylindrically elongated, laterally compressed, somewhat twisted, conspicuously keeled and umbilicated at the base, whorls six in number, decussated throughout with spiral and oblique striae, aperture very much produced, eight-toothed, margins joined; brown, aperture livid-purple.


Hab. Brazil.

This species has very much the appearance of being a distorted example of the preceding; it may prove distinct.

Species 230. (Mus. Cuming.)

Bulimus Pantagruellus. Bul. testa cylindraceo-oblonga, umbilicata, anfractibus novem, subventricosis, longitudinaliter peculiariter corrugata et indentata; apertura subovata, labro latissimâ incrassato et expanso, intus profunde lamello-decussato; ceruleo-aloide, labro cornuo-aurantio.

Pantagruellus Bulimus. Shell cylindrically oblong, umbilicated, whors nine in number, somewhat ventricose, longitudinally peculiarly wrinkled and indented; aperture rather produced, lip very widely thickened and expanded, profusely lamellarly toothed; bluish-white, lip flesh-tinted orange.

Odonotostoma Pantagruellus, Beck.
Odonotostoma leucochela, Beck.

Hab. Brazil.

The largest species of this curious Brazilian group, distinguished by the bold reflection of the lip and singular development of teeth.

Species 231. (Mus. Cuming.)


The Pupa-like Bulimus. Shell cylindrically oblong, umbilicate, scarcely keeled, whors nine in number, flatly convex, obliquely very finely striated; aperture somewhat produced, squarely oblong, nearly five-toothed, with two narrow channels at the upper part, lip thickened, expanded; horny white, obliquely painted with a very few chestnut-brown stripes.

Pupa inflata, Wagner.
Pupa fasciata, Potiez et Michaud.
Cochlodonta Listeri, De Férussac.
Pupa Listeri, Gray.
Cyclodonta Pupoides und Listeri, Beck.
Bulimus vitreus, Spix.

Hab. Brazil.

A solid shell with a somewhat transparent aspect.

Species 232. (Mus. Cuming.)


Wagner's Bulimus. Shell cylindrically pyramidal, umbilicated, whors eleven in number, very finely roughly striated, sutures somewhat rude, aperture four-toothed, lip simple; horny white, spotted and flushed with opaque white.


Clausilia striata, Spix.
Pupa striata, Wagner.
Pupa turrita, Anton.
Pupa cuneata, Potiez et Michaud.
Pupa Spixii, D'Orbigny.
Cyclodonta striata, Beck.

Hab. Brazil.

I quote the Clausilia striata, Spix, (Pupa Spixii, D'Orbigny,) as synonymous with this species on the authority of Dr. Pfeiffer, but with some doubt, for D'Orbigny describes it as having the lip thickened and reflected.

Species 233. (Mus. Cuming.)

Bulimus dentatus. Bul. testa subcylindracea, umbilicata, anfractibus septum, convexa, oblique exiliter striata, apertura densa sex-dentatâ, labro producto, vix reflexo; albidâ.

The toothed Bulimus. Shell somewhat stoutly cylindrical, umbilicated, whors seven in number, convex, obliquely faintly striated, aperture thickly six-toothed, lip produced, scarcely reflected; whitish.


Hab. Brazil.

It is only to be presumed that this is the true B. dentatus of King.
**BULIMUS.**

*Plate XXXIX.*

Species 234. (Mus. Cuming.)

**Bulimus Granadensis. Bul. testa subfulviformi-ovata, tenui, vis unicolor, anfractibus sex, ventricosis, irregulariter striatis; aperture ovata, labro tenuissimo, acute; carinulo-albicante, lauto-aunciato tincta, maculis oblongis irregularibus seriatim ornatae.**

The Granada Bulimus. Shell somewhat fusiform or oval, thin, scarcely umbilicated, whorls six in number, ventricose, irregularly striated; aperture oval, lip very thin, acute; bluish white, stained with yellowish orange, and ornamented with rows of irregular oblong blue-black spots.


_Hab._ Merida, New Granada; Funck.

This specimen described by Dr. Pfeiffer is apparently of immature growth, though it exhibits all the characters of a distinct species.

Species 235. (Mus. Cuming.)

**Bulimus bisu. Bul. testa ovata, ventricosa, vis umbilicata, anfractibus sex, ventricosis, vortex-striatis, ad suturas tenue-crenulati; columnella revoluta, aperture ovata, labro tenui; fuscoscente-badis fusco fasciatis, fascis interrumpitis.**

The Bay Bulimus. Shell ovate, ventricose, scarcely umbilicated, whorls six in number, ventricose, roughly striated, finely crenulated at the sutures; columella rolled back, aperture ovate, lip thin; light fultuous bay, encircled with interrupted brown bands.


_Hab._ Province of Xanga, Peru; Matthews.

There is a considerable resemblance in the colouring of this species to that of the _B. thanusiosus._

Species 236. (Mus. Cuming.)

**Bulimus papyraceus. Bul. testa fusiformi-ovata, tenui, vis unicolor, anfractibus sex, subventricosis, longitu-dinaliter subulisciato plicato-striatis; columnella revoluta, aperture ovata, labro subexpanso, tenui, acuto; alba, carinulo-nigricate undato-nebulata, striis opaco-albis.**

The paper Bulimus. Shell fusiform or oval, thin, scarcely umbilicated, whorls six in number, somewhat ventricose, longitudinally very finely plicately striated; columella rolled back, aperture oval, lip somewhat expanded, thin, sharp; white, clouded in a waved manner with blue-black.

*Helix papyracea, Mawe.*

_Cochlogena litra, De Férussac._

**Bulimus litturatus, Spix.**

**Bulimus litra, Deshayes.**

**Bulimus inflatus, Spix._

**Bulimus mugus, Wagner.**

_Hab._ Brazil.

The shell named _B. mugus and inflatus,_ as above recorded, is another state of the species of larger size.

Species 237. (Mus. Cuming.)

**Bulimus tri-fasciatus. Bul. testa subpyramidali-ovata, solidula, umbilicata, anfractibus sex, levibus aut absolutori striatis, aperture suborbiculariori, labro conspicuo reflexo; albidus, rufus-fuscus basia versus fasciatis, apicem versus cinerum punctulatam, labro albo.**

The three-banded Bulimus. Shell somewhat pyramidal ovate, rather solid, umbilicated, whorls six in number, smooth or obsolescently striated, aperture rather orbicular, lip conspicuously reflected; whitish, banded with reddish brown towards the base, finely dotted with ash colour towards the apex, lip white.


**Bulimus zoanuctus, Swainson.**

_Hab._ Ceylon; Gardner.

The shell here represented agrees much better with Mr. Swainson's figure, _B. zoanuctus, Zool. Illus.,_ pl. 17, than with Cuming's above quoted. I believe, however, with Dr. Pfeiffer, they are varieties of the same species.

Species 238. (Mus. Cuming.)

**Bulimus multicolor. Bul. testa conico-ovata, subobliqua convoluta, umbilicata, anfractibus quinquae, sub levibus minuto-crenatis granulatis, ultimo ventricosa; aperture subobliqua oblonga, labro tenuissimo, vis reflexa; opaco-alba, olivaceo-tincta, flavina purpureo-fuscis variagata, aperture fuscis violacento, labro vivido roseo.**

The many-coloured Bulimus. Shell conically ovate, somewhat obliquely convoluted, umbilicated, whorls five in number, very minutely granulated under the lens, last whorl ventricose; aperture rather obliquely oblong, lip rather thin but slightly reflected; opaque white, olive-stained, variegated with purple-brown flames, interior of the aperture violet, lip bright rose.

_Helix multicolor, Rang, Annales des Soc. Nat., 1831, p. 55. pl. 3. f. 1._

October, 1848.
BULIMUS.

PLATE XL.

Species 244. (Mus. Cuming.)

BULIMUS MEXICANUS. *Bul.* testá acumínato-ovata, tenui, vix umbilicata, anfractibus sex ad septem, longitudinaliter tenniatriata; columellâ reflexa, labro tenui, simplici; albida; nigricante-fusco tri-quadrir-zonata.

The Mexican Bulimus. Shell acuminately ovate, thin, but slightly umbilicated, whorls six to seven in number, longitudinally finely striated; columella reflected, lip thin, simple; whitish, encircled by three or four zones of blackish brown.


*Cochlodesma vitattata*, De Péré Carec.

*Hab.* Mexico.

Approximating in general aspect to the *B. Cariborum* of the West Indies.

Species 245. (Mus. Cuming.)

BULIMUS LUCIDUS. *Bul.* testá oblongo-ovata, tenui, cornet, pellicullä, vix umbilicata, anfractibus sex, convexis, levibus, nitentibus, sub late creberrimâ spiraliter impresso-striatâ; columellâ reflexa, labro simplici, acuto; pallida straminea.

The clear Bulimus. Shell oblong ovate, thin, horny, transparent, scarcely umbilicated, whorls six in number, convex, smooth, shining, very closely spirally impressly striated.

*Hab.* St. Vincents, Guiana.

This shell has the name *froglis* attached to it in Mr. Cuming’s collection, but it is not the *B. froglis* of Lamarck, which, according to M. Deshayes, is the young of the British *Lignum stagnatis*.

Species 246. (Mus. Cuming.)

BULIMUS VIMINEUS. *Bul.* subpyramidati-ovalata, basi sub-obliquë productâ, vix umbilicata, anfractibus septem, convexis, glabris; columellâ reflexa, aperturâ obliquë angulatâ-effusa, labro subexpanso, non reflexo; alba, luteo et cinero-cerulense conspiciu longitudinualiter vitattâ, apertura favea castaneo-fusca, labro albo.

The wicker Bulimus. Shell somewhat pyramidal ovate, obliquely produced at the base, scarcely umbilicated, whorls seven in number, convex, smooth, columella reflected, aperture obliquely angularly effused, lip somewhat expanded, not reflected; white, conspicuously longitudinally filleted with stripes of ashy blue and yellow, interior of the aperture chestnut-brown, lip white.


*Hab.* Brazil.

A very characteristic species both in respect of form and colouring.

Species 247. (Mus. Cuming.)

BULIMUS UNDULATUS. *Bul.* testâ subglobiformi-ovalata, umbilicata, anfractibus sex ad septem, convexis, levibus, nitentibus, ultimo basi obtusâ angulata; columellâ reflexâ, aperturâ oblongo-ovali, labro acute, vix reflexo; albidâ, luteo et livido-brunneo conspiciu undulatâ.

The waved Bulimus. Shell somewhat fusiformly ovate, umbilicated, whorls six to seven in number, rather convex, smooth, last whorl obtusely angled at the base; columella reflected, aperture oblong-oval, lip sharp, but slightly reflected; whitish, conspicuously waved with yellow and livid brown.


*Hab.* St. Vincents, West Indies.

A pretty striped species described some years since by the Rev. Lansdowne Guilding, but still rare.

Species 248. (Mus. Cuming.)

BULIMUS ANGULATUS. *Bul.* testâ ovato-fusiformi, umbilicata, basi attenuata, anfractibus octo, convexis, levibus; columellâ latè reflexa, aperturâ internâ canaliculata, labro subexpanso, non reflexo; ceruleo-alba, striis fuscis longitudinulis hinc illic irregulariter pictâ, striis saturatiori post labrum, labro albo, apice nigro.

The angled Bulimus. Shell ovately fusiform, umbilicated, attenuated at the base, whorls eight in number, convex, smooth; columella broadly reflected, aperture channelled at the lower part, lip somewhat expanded, not reflected; bluish-white, painted irregularly here and there with brown streaks, with a darker streak behind the lip, lip white, apex black.


*Hab.* Brazil.

October, 1848.
Distinguished by the aperture being attenuately prolonged at the base, so as to form a channel.

Species 249. (Mus. Cuming.)

**Bulimus fusiformis.** Bul. testâ elongato-fusiformi, umbilicatâ, basi attenuatâ, compressâ et retroversâ subconicîturâ, anfractibus novem ad decem, plano-concavis, longitudinalibus obscuri striatis; columellâ latê reflexâ, aperturâ subelongatâ, basi latâ camaliiculâtâ, labro expanso non reflexo; fuscescente, strigis fascis longitudinalibus hie illâ irregulariter pictâ, striâ satutriore ponâ labrum.

**The fusiform Bulimus.** Shell elongately fusiform, umbilicated, attenuated at the base, compressed and slightly twisted backwards, whorls nine to ten in number, flatly convex, longitudinally obscurely striated; columella broadly reflected, aperture somewhat elongated, broadly channelled at the lower part, lip expanded, not reflected; pale brown, painted irregularly here and there with brown streaks, with a darker streak behind the lip.

*Bulimus dubius*, Jay.
*Bulimus angulatus*, var.? Deshayes.

**Hab. Brazil**

There is a remarkable affinity between this and the preceding species, which is not shared by any other; they are nevertheless permanently distinct.

Species 250. (Mus. Cuming.)

**Bulimus Deshayesii.** Bul. testâ elongato-turrîtâ, umbili-
catâ, anfractibus novem, rotundatis, subtiliter impresso-
striatis, ad suturas obscuri crescuntatis, columellâ reflexâ, aperturâ parâ, simplici; violacea-albâ, maculis striatisque virescenti-fuscis irregulariter pictâ, apertura fanae roseo-purpureâ.

**Deshayes' Bulimus.** Shell elongately turreted, umbilicated, whorls nine in number, rounded, finely impressively striated, obscurely crenulated at the sutures, columella reflected, aperture small, simple; violet-tinted white, irregularly painted with greenish-brown streaks and blotches, interior of the aperture rose-purple.

**Pfeiffer, Pro. Zool. Soc., 1845, p. 73.**
**Hab. Venezuela;** Dyson.

Quite unlike any other species at present known.

Species 251. (Mus. Cuming.)

**Bulimus Loxensis.** Bul. testâ cylindrico-oblongâ, umbilicatâ, anfractibus septem, convexis, levibus, aut obscurî striatis; columellâ latê reflexâ, aperturâ par-
viusculâ, labro simplici, avto; cornucencent-albâ, nigricante-castaneo hie illâ longitudinaliter maculâtâ aut striâtâ.

**The Loxa Bulimus.** Shell cylindrically oblong, umbilicated, whorls seven in number, convex, smooth, or obscurely striated; columella broadly reflected, aperture rather small, lip simple, sharp; bluish-white, here and there longitudinally streaked and blotched with blackish chestnut.

**Pfeiffer, MSS., Mus. Cuming.**
**Hab. El Catamaiju, Loxa, Quito;** Hartweg.

Of a peculiarly bluish-white, painted in a very irregular manner with dark more or less interrupted streaks.

Species 252. (Mus. Cuming.)

**Bulimus serpulaestrus.** Bul. testâ conico-oblongâ, umbilicatâ, anfractibus septem, convexissimis, levibus; columellâ reflexâ, labro subexpanso, vis reflexo; albida, fascis ad securuleo-fuscis irregularibus, impressis, incurvatis.

**The handaged Bulimus.** Shell conically oblong, umbilicated, whorls seven in number, slightly convex, smooth; columella reflected, lip somewhat expanded, scarcely reflected; whitish, encircled with about six irregular interrupted bluish-brown bands.

**Say, Deser. New Terr. Shells, p. 25.**
**Hab. Mexico.**

Banded in a particular manner, whilst the species is also peculiar in form.

Species 253. (Mus. Cuming.)

**Bulimus durus.** Bul. testâ subglobo-ovalâ, umbilicatâ, anfractibus septem, rotundatis, striis longitudinalibus et transversis subilissimis decussatâ; columellâ reflexâ, labro simplici, vis reflexo; fulvicaule, medio albi-
zonâtâ.

**The hard Bulimus.** Shell somewhat globose ovate, umbilicated, whorls seven in number, rounded, very finely decussated with longitudinal and transverse striae; columella reflected, lip simple, scarcely reflected; pale fulvous colour with a white zone round the middle.

**Spix, Test. Brus., p. 5. pl. 6. f. 2.**
**Hab. Brazil.**

Very closely allied in form to dwarf specimens of *B. heterotrichus*. 
BULIMUS.

PLATE XLI.

Species 254. (Mus. Dennison.)

BULIMUS SUBSEMICLLAUSUS. Bul. testa subobovato-ovata, tumicular, ventricosa, anomastus quinquen, levibus, vel sub lente minuissimis impresso-striatis, anfractu ultimo, subangulato; columna indigra, labro peculiariter plano-reflexo; lactea-albidâ, obscurâ fusco-cingulato, punctis opaco-albis fuseo-unbratis notá, castanea circa columnam.

THE PARTIALLY-CLOSED BULIMUS. Shell somewhat abbreviately ovate, rather thin, ventricose, whors five in number, smooth or very minutely impressly striated under the lens, last whorl slightly angulated; columna depressed, lip peculiarly flatly turned inwards; yellowish-white, obscurely belted with brown, marked with brown-shadowed opaque white dots, chesnut around the columna.

PETIT, Magasin de Zoologie, 1843, Moll. pl. 66.

Hab. Santa Fé di Bogota.

This singular species may at once be recognised by the curious inwardly reflected growth of the lip.

Species 255. (Mus. Cuming.)

BULIMUS MARMARINUS. Bul. testa subcylindrical-oblong, umbilicatâ, anfractibus sex ad septem, concentricâ subangulata; columna subplicatâ et latâ plano-reflexa, labro viso reflexo; albida, castaneo-fasciata mactata et longitudinale undulata.

THE MARBLED BULIMUS. Shell somewhat cylindrically oblong, umbilicated, whors six to seven in number, concentrically somewhat rudely striated; columna slightly plaited, and broadly flatly reflected, lip scarcely reflected; whitish, spotted in a banded manner and longitudinally waved with chesnut.


Hab. Yungas, Bolivia (under dead leaves and stones in woods near the river Mequilla); D'Orelligny.

Characterized by a waved pattern in the painting as well as by a peculiar roundness of form.

Species 256. (Mus. Cuming.)

BULIMUS CANALICULATUS. Bul. testa subfusiformi-ovata, basi peculiariter compresso-carinata et umbili-
câ, anfractibus sex ad septem, convexis, longitudinaliter rugoso-striatis; columna reflexa, aperturâ oblongâ, inferius conspicue canaliculata; albida, purpurascens-apudices striata et marmorata, intus purpurascens.

THE CHANNELED BULIMUS. Shell somewhat fusiformly ovate, peculiarly compressly keeled and umbilicated at the base, whors six to seven in number, convex, longitudinally roughly striated; columna reflected, aperture oblong, conspicuously channeled at the lower part; whitish, streaked and marbled with purplish bay, interior purplish.


Hab. New Granada.

Chiefly remarkable on account of its abruptly contracted growth at the base, which looks pushed inwards as it were.

Species 257. (Mus. Adamson.)

BULIMUS LYONINETIANUS. Bul. testa pyramidalis-conica, basi latisissimâ et abruptâ angulata, profunde umbilicatâ, anfractibus ovo, longitudinale rugoso-striatis, striae apicis versus elevatisibus et regularibus, anfractu ultimo sinistrosem gibbosum-producto; aperturâ ovata, labro reflexo; albida, epiderimide flaccansse undulata.

LYONET'S BULIMUS. Shell pyramidal, very broadly and abruptly angled at the base, deeply umbilicated, whors eight in number, longitudinally roughly striated, strin more elevated and regular towards the apex, last whorl gibbously produced on the left side; aperture ovate, lip reflected; whitish, covered with a yellowish epidermis.

Helix Lyonnetiana, Pallas, Spicilegia Zoologiae, vol. x. pl. 3. f. 7, 8.

Trochus Lyonnetiana, Chemnitz.

Trochus distortus, Gmelin.

Helix distorta, Burrows.

Pupa modiolus, Bowditch.

Hab. Mauritius.

This remarkable species, which partakes very much of the character of certain Pupae, was originally named by Pallas, in honour of M. Lyonnet, an eminent anatomist and anatomical engraver of the last century, resident at the Hague.

October, 1848.
BULIMUS.—PLATE XLII.

Species 258. (Fig. a and b, Mus. Cuming.)

**Bulimus navicula.** But. testa abbreviato-conica, basi peculiariter plano-truncata, subobscuri umbilicati, anfractibus sex, subtiliter striatis et corrugato-malleatis, ultimam dextrorum valde producto; aperturâ inferius canaliculata, labro subreflexo; altitâ, carinula-fusco marmoreata, sepé intus roseo-castaneo latifasciata, labro eburneo.

**The Little Bark Bulimus.** Shell abbreviately conical, peculiarly flatly truncated at the base, somewhat obscurely umbilicated, whorls six in number, finely striated and indented in a wrinkled manner, last whorl much produced towards the right; aperture channelled at the lower part, lip slightly reflected; whitish, marbled with bluish brown, often broadly banded with deep rose-chesnut, lip ivory white.

**Helix navicula.** Wagner, Spix, Test., Bras., pi. 15. f. 2, 3.

**Bulimus auris-leporis,** Férussac.

**Bulimus lateralis,** Menke.

**Otostoma navicula,** Beck.

**Hab.** Bahia, Brazil; Spix, Moricand.

Amply distinguished by its extraordinary mode of growth, of which an approximation is offered in the species which follows.

Species 259. (Fig. a and b, Mus. Cuming.)

**Bulimus auris-leporis.** But. testâ subpyramidali-ovalâ, basi depresso-coneâ, umbilicata, anfractibus sex, subtiliter striatis et corrugato-malleatis, anfractu ultimo dextrorum subproducto, aperturâ descendentâ, labro expanso, sive reflexa; altitâ, nigro vel fusco marmoreata aut striigata, inferius unifasciata, labro eburneo.

**The hare’s-ear Bulimus.** Shell somewhat pyramidal-oval, depressely convex, umbilicated, whorls six in number, finely striated and indented in a wrinkled manner, last whorl slightly produced towards the right, with the aperture descending, lip expanded, scarcely reflected; white, marbled or streaked with black or brown, with a single band round the lower part, lip ivory white.

**Breguière, Enc. Méth.,** vol. i. p. 346.

**Anicula auris-leporis,** Lamarck.

**Cochlogena auris-leporis,** Férussac.

**Pupa auris-leporis,** Gray.

**Bulimus lagotis,** Menke.

**Otostoma lagotis,** Beck.

**Hab.** Bahia.

The plan of growth and detail of sculpture are the same as in the *B. navicula*, in which species they may be said to be fancifully exaggerated.

Species 260. (Mus. Cuming.)

**Bulimus caucatus.** But. testâ conico-ovalâ, solidulâ, umbilicata, anfractibus sex ad septem, levibus, sub lente subtilliter decussatis striatis; columella incrassata, reflexâ, aperturâ concretata, labro plano expanso, latiusculâ; altitâ, superius lineis interruptis, inferior fasciis, fusco-pigricantibus cingulatâ, epice nigro, labro eburneo.

**The Contracted Bulimus.** Shell conically oval, rather solid, umbilicated, whorls six to seven in number, smooth under the lens, finely decussately striated; columella thickened, reflected, aperture contracted, lip flatly expanded, rather broad; white, encircled round the upper part with brown-black interrupted lines, round the lower with bands, lip ivory white.


**Hab.** —?

Somewhat Partula-like in aspect, though not possessing the characters of that genus.

Species 261. (Mus. Cuming.)

**Bulimus auris-muris.** But. testâ conico-ovalâ, basi depresso-convexâ, subobscuri umbilicati, anfractibus sex ad septem, planiusculis, levibus, sub lente subtilliter malleatis; columellâ latâ reflexâ, aperturâ laterali plano-fuscomarotâ, subtrigoniâ, labro reflexo; altitâ, lineis carinulae-fuscorosciatibus cingulatâ, labecula pallidicirobas obliquis.

**The Mouse’s-ear Bulimus.** Shell conically oval, depressedly flattened at the base, somewhat obscurely umbilicated, whorls six to seven in number, rather flattened, smooth, finely indented under the lens; columella broadly reflected, aperture flatly contracted at the side, somewhat triangular, lip reflected; white, encircled by narrow bluish-black bands, and oblique dashes of a lighter hue.


**Otostoma myotis,** Beck.

**Hab.** Bahia, Brazil.

Although partaking of the form and minute detail of sculpture presented in the *B. navicula* and *auris-leporis*, this is a very distinct and characteristic species.
BULIMUS.

Plate XLII.

Species 262. (Mus. Cuming.)

Bulimus Veranyi. Bul. testa conico-globosa, spirà brevi, anfractibus quatuor ad quinque, ventricosae, crebrerrimae minutae granulatis; columellae subunispectata, labro reflexo; fulci, fusco subindistincte punctata, striigis albidis fulguratis, epidermide tenui undulat, labro corneo-albo.

Verany's Bulimus. Shell conically globose, spire short, whorls four to five in number, ventricose, very closely minutely granulated; columella slightly plaited, lip reflected; yellowish, somewhat indistinctly dotted with brown, marked with white lightning-like streaks, and, covered with a thin epidermis, lip flesh-tinted white.


Hab. Chacopo, Province of Merida, New Granada.

In some specimens the white zigzag streaks are not present.

Species 263. (Mus. Cuming.)

Bulimus quadricolor. Bul. testa tenui, sub-depressooxalata, Succineaformis, spirà brevi, anfractibus quatuor, obliquè elevato-strictis; columellà tortuosà, apertura ampla, labro tenuiter reflexo; pellucido-coronata, luteâ, fusco nunc undulatâ, nunc punctatâ, epidermide tenui luteo-punctatâ indutâ, epidermide sericeâ secundâ in striis longitudinales antorsum peculiariter serratis, labro purpureo-roseo.

The four-coloured Bulimus. Shell somewhat depressely ovate, Succinea-shaped, spire short, whorls four in number, obliquely elevated and striated; columella twisted, aperture large, lip thinly reflected; transparent-horny, yellow, sometimes waved, sometimes dotted with brown, covered with a thin yellow-dotted epidermis, with a second light silken epidermis in longitudinal streaks peculiarly serrated along the anterior edge, lip purple-rose.


Hab. Chacopo, Province of Merida, New Granada.

A delicate and beautiful species collected in the same locality with the preceding by M M. Funck and Linden.

Species 264. (Mus. Cuming.)

Bulimus succinoides. Bul. testa depresso-ovata, Succineaformis, spirà brevissimâ, anfractibus quatuor, obliquè striatis et cerbererrimae minutae granulatis; columellà tortuosà, apertura peramplata, labro reflexo; subcorneâ, luteâ, fasciâ subulato-costatae, epidermide olivaceo-fusca indutâ, epidermide secundâ sericeâ in striis brevibus oblitis et suturis descedentibus, labro albido.

The Succinea-like Bulimus. Shell depressely ovate, Succinea-shaped, spire very short, whorls four in number, obliquely striated and very closely minutely granulated; columella tortuous, aperture very large, lip reflected; somewhat horny, yellowish, with a dark chestnut suture band, covered with an olive brown epidermis, and a second silken one descending from the sutures in short oblique streaks, lip whitish.

Petit, Magasin de Zoologie, 1841, Moll. pl. 31.

Hab. Santa Fé di Bogota.

The form of this species, contrasted with that of B. Lyonsianus and navicula, is remarkable.

Species 265. (Fig. a and b, Mus. Sowerby; Fig. c, Mus. Cuming.)

Bulimus Cathcarti. Bul. testa ovata, ventricosa, spirà brevi, anfractibus quinque, obliquè subtilissimâ strictis, anfractu ultima maximo, apertura patula, labro subulato reflexo; albida vel purpurascens-castaneà, epidermide luteo-olivaceâ indutâ, epidermide secundâ, plus minusve pulscherriâ et varie configuratâ, intus purpurascens-castaneâ, labro roseo.

Cathcart's Bulimus. Shell ovate, ventricose, spire short, whorls five in number, obliquely very finely striated, last whorl very large, aperture wide open, lip somewhat broadly reflected; whitish, or purplish chestnut, covered with a yellowish-olive epidermis, and a second silken one which is more or less beautifully and variously configured, interior purple-chestnut, lip pink.

Hab. Province of Merida, New Granada; Linden.

In addition to the beautiful association of form and colour in this species, it is further distinguished by a remarkable configuration of the outer membrane of the epidermis, which is variously disposed in different specimens. The B. Cathcarti resembles in some degree the B. pintadímus, D'Orbigny, Moll. Voy. dans l'Amér. Mérid.

October, 1848.
of which the author informs us he collected a single dead specimen in a damp forest at the base of the Eastern Cordilleras of Bolivia, but possesses neither the form nor marking of that species.

I am indebted to Mr. Linden, the botanical traveller in New Granada, for the possession of several examples of this chaste and beautiful shell, characterized by different patterns of epidermis, and have thought it a subject not unworthy of being dedicated to an eminent collector in North Britain, the Honourable Mrs. Cathcart, distinguished by her zeal and affability.

Species 266. (Mus. Dennison.)

**BULIMUS GLANDIFORMIS.** Bul. testá ovátá, ventricosá, via unibilicatá, anfractibus quatuor ad quinque, rugoso-striatis et granulatis, columellá subtortuosa, labro sub- late réflexo; fumeo-albidd, strigos brevibus fuscis e suturis fulguratá, epidermide olivaceo-fusca, luteo-punctatá et marmaratá, indutá.

**The Acorn-shaped Bulimus.** Shell ovate, ventricose, scarcely umbilicated, whors four to five in number, roughly striated and granulated, columella slightly twisted, lip rather broadly reflected; smoky-white, marked with short zigzag brown streaks out of the sutures, covered with an olive epidermis, dotted and mottled with yellow.


*Hab.* New Granada.

It is not without some doubt that I attribute this shell to Mr. Lea's *B. glandiformis*, whose figure is very obscure.

Species 267. (Mus. Dennison.)

**BULIMUS PELICARIUS.** Bul. testá ovátá, tenuecélá, via unibilicatá, anfractibus quatuor ad quinque, inf fistis, subtiliter granulatis, longitudinaliter rugoso-striatis, transversis obscurè sulcatis; columellá latè reflexá, aperturá subamilá, labro reflexo; albidd, castaneo irregulariter punctatá, labro et interdum fumo apertura purpurascens-rosa, epidermide olivaceo-fusca aut viridecensca indutá.

**The Flea-spotted Bulimus.** Shell ovate, rather thin, scarcely umbilicated, whors four to five in number, inflated, finely granulated, longitudinally roughly striated, transversely obscurely grooved; columella broadly reflected; whitish, irregularly dotted with chestnut, lip and sometimes the interior of the aperture purple-rose, covered with an olive-brown or greenish epidermis.

*Hab.* New Granada.

A delicate species more or less irregularly dotted with black, and richly coloured with rose-purple about the lip and aperture.

Species 268. (Mus. Cuming.)

**BULIMUS PLECTOSTYLYS.** Bul. testá ovátá, crassisculá, via unibilicatá, anfractibus quatuor ad quinque, rugoso-striatis et minutis granulatis, columellá tortuosa et furtiter plicatá, labro incrassato, reflexo; fumeco-castaneo, punctis parvis nigris obscurè notatá, epidermide fusca indutá, epidermide secundá albá in strigos brevibus et suturis fulgurátis.

**The Twisted-column Bulimus.** Shell ovate, rather thick, scarcely umbilicated, whors four to five in number, roughly striated and minutely granulated, columella twisted and strongly plaited, lip thickened, reflected; smoky chestnut, obscurely marked with a few black dots, covered with a brown epidermis, and a second white epidermis emerging from the sutures in short zigzag streaks.


*Hab.* Chapoco, Province of Merida, New Granada; Funck.

From the same locality as the preceding species, remarkable for its twisted columella.
**BULIMUS.**

**PLATE XLIII.**

Species 269. (Mus. Dennison.)  

**BULIMUS TRI-BALTEATUS.** Bul. testa subfusiformi-ovata, vix umbilicata, anfractibus sex, convexis, levigatis, vel minuto longitudinaliter striatis; apertura parviscutata, labro sulcato, pallide striatâ, conus tribus costaneis conspicue latissimâ, labro vivido rosaceo.

**THE THREE-BELTED BULIMUS.** Shell somewhat fusiformy ovate, slightly umbilicated, whorls six in number, convex, smooth, or minutely longitudinally striated; aperture rather small, lip slightly reflected, pale straw colour, conspicuously belted with three chestnut zones, lip bright pink.

*Hab.* Santa Fé di Bogota.

A chaste and delicately coloured species, not hitherto described, in the collection of J. Dennison Esq.

Species 270. (Fig. a and b, Mus. Dennison;  
Fig. c, Mus. Cuming.)  

**BULIMUS KNORRI.** Bul. testa fusiformi-ovata, basi subangulato-producta, ampliter umbilicata, anfractibus septem, levibus, sub lente transversim minuto striatis et indentatis; conus tribus costis, sinuatis, labro expanso, vix reflexo; striatè, ant purpureo-fuscâ, et cerveolecente-fusco obscurâ fasciâ, labro intus ant rocco ant vivide crecesco.

**KNORR’S BULIMUS.** Shell fusiformy ovate, somewhat angularly produced at the base, largely umbilicated, whorls seven in number, smooth, beneath the lens minutely transversely striated and indented; conus broadly reflected; straw colour, or purple-brown, or obscurely banded with bluish-brown, inner edge of the lip pink or deep saffron yellow.

*Pfeiffer,* Monog. Hel. viv., p. 95.  
*Hab.* La Guaya.

Chiefly distinguished by a peculiar attenuation of the aperture, and by the deep pink or saffron colouring of the lip. The outer colouring of the shell is extremely variable.

Species 271. (Mus. Dennison.)  

**BULIMUS XANTHOSTOMA.** Bul. testa fusiformi-ovata, ampliter umbilicata, spirâ subacuminatâ, anfractibus octo, levibus, sub lente transversim minuto striatis et indentatis, conus tribus, labro latæ reflexi, labro latæ expanso, vix reflexo; pallide striatâ, vel aurantium, apice roseo, labro vivide crecesco.

**THE YELLOW-MOUTH BULIMUS.** Shell fusiformy ovate, largely umbilicated, spire somewhat acuminated, whorls eight in number, smooth, transversely minutely striated and indented under the lens, conus broadly reflected, aperture ovate, lip broadly expanded, scarcely reflected; pale straw colour or orange, pink at the apex and bright saffron yellow at the lip.

**D’ORBIGNY, Voy. dans l’Amér. Mérid. p. 312. pl. 40. f. 1, 2.**

*Hab.* Bolivia and Santa Fé di Bogota.

Mainly distinguished from the preceding species by its more acuminated growth, comprising a whorl more, and less oblong form of the aperture.

Species 272. (Mus. Brit.)  

**BULIMUS BAIRDII.** Bul. testa cylindraceo-oblonga, crusata, anfractibus septem, plano-convexis, conus tribus, labro latæ reflexi, labro latæ expanso, vix reflexo; pallide fuscâ, labroque fuscâ obscura, aperture fuscâ crecesco.

**BAIRD’S BULIMUS.** Shell cylindrically oblong, thick, whorls seven in number, flatly convex, conus furnished with two large calliostomies, aperture rather small, lip thickened, reflected; white, stained with brown, lip and conus ivory white, interior of the aperture saffron-yellow.

*Hab.* —?

This very interesting shell partakes of the characters of the *B. auris-bovina* and *auris-Midae*, the latter of which, as may be seen by a comparison of the figure at Pl. 28, with one in Martyn’s Universal Conchologist (sub nom. *Helix fibratus*), assumes very different aspects, but none with which the present agrees.

I have the pleasure to name this species in honour of Dr. Baird of the British Museum, as a trilling acknowledgment of his great diligence in sorting the specimens of the national collection, preparatory to their being critically arranged and named.

October, 1848.
Species 273. (Fig. a and b, Mus. Dennison.)

**Bulimus murrinus.** *Bul. testá fusiformi-ovató, vix umbilicatá, anfractibus sex, convexis, levibus, politis, ultimo basi subproductá et attenuatá; aperturá suboblongá, infernè leviter sinuata, labro expanso, vix reflexo; albídá, livido-olivaceo aut carrubeo-nigro longitudinatier strigatá et transversim fasciá, aperturá fauce vividú purpureá, labro albo.

**The porcelain Bulimus.** Shell fusiformly ovate, scarcely umbilicated, whorls six in number, convex, smooth, polished, last whorl somewhat produced and attenuated at the base; aperture rather oblong, slightly sinuated at the lower part, lip expanded, scarcely reflected; whitish, longitudinally streaked and transversely banded with livid olive or blue-black, interior of the aperture rich purple, lip white.

*Hab.* Santa Fé di Bogota.

A beautifully painted species from the collection of J. Dennison, Esq., nearest allied to the *B. linostoma* of D'Orbigny.

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Species 274. (Mus. Cuming.)

**Bulimus Ceylanicus.** *Bul. testá conico-ovató, solidiusculá, spira suturis impressis; anfractibus sex, plano-convexis, obliquè striatis, columella latè reflexá, aperturá paré, labro expanso, vix reflexo; intus extusque albá.

**The Ceylon Bulimus.** Shell conically ovate, rather solid, sutures of the spire impressed; whorls six in number, flatly convex, obliquely striated, columella broadly reflected, aperture small, lip expanded, but slightly reflected; white within and distant.


*Hab.* Ceylon.

A rather stout shell of a peculiar conical form.
BULIMUS.

PLATE XLIV.

Species 275. (Mus. Dennison.)

BULIMUS CHIMBORAZENSIS. Boll. testá fusiformi, ad basin subattenuatá, via umbilicatá, anfractibus sex, convexités, longitudinaliter cruriserraté elevató-striatá; columnellá depresso-reflexá, labro subexpansó, non reflexó; roseo-fuuscenté, albissectato, columnellá labroque vividi purpuro-rosésa.

The Chimborazo BULIMUS. Shell fusiform, somewhat attenuated at the base, scarcely umbilicated, whorls six in number, convex, longitudinally very closely elevated striated; columella depressed reflexed, lip slightly expanded, not reflected; rose-brown, banded with white, lip and columella deep purple-rose.

Bulimus decoratus, Lea (not of Fergusse), Obs. vol. ii. pl. 23. f. 108.


First described by Mr. Lea of Philadelphia from a specimen collected near Carthagena, New Granada, by Dr. Gibbon.

Species 276. (Mus. Cuming.)

BULIMUS BICOLO. Boll. testá oblong-ovalát, umbilicatá, ad basin rotundatá, anfractibus sex, longitudinaliter obliqué fortiliter rugoso-striatá; ceruleo-ascidó, fasciis fuscis interruptis cingulatá.

The two-coloured BULIMUS. Shell oblong-ovate, umbilicated, rounded at the base, whorls six in number, longitudinally obliquely strongly roughly striated; bluish-white, encircled by interrupted brown bands.


Hab. Xagua, Peru; Miller.

The lower edge of the bands is peculiarly broken or serrated.

Species 277. (Mus. Cuming.)

BULIMUS RUBRIFASCATUS. Boll. testá cylindraceo-ovalát, via umbilicatá, anfractibus septem, convexis, levibus, aperturá pareá, labro simplici; albidó, rufo-fusco trifasciáto, fasciá medicaté anguatá, lineari.

The red-banded BULIMUS. Shell cylindrically ovate, scarcely umbilicated, whorls seven in number, convex, smooth, aperture small, lip simple; whitish, painted with three red-brown bands, of which the central one is narrow and linear.

Hab. —— ?

M. Deshayes has, I believe, proposed the name B. exilis for this species, already occupied by Gmelin.

Species 278. (Fig a, Mus. Cuming; Fig. b, Mus. Dennison.)

BULIMUS GEOMETRICUS. Boll. testá subcylindraceo-turrít, umbilicatá, spirá suturis impressá; anfractibus septem, subrotundatás, levibus, ultimo peculiariter obliqué producés; columnellá late reflexá, aperturá obliqué ovalít, labro reflexó; albidó, fusco irregulariter texitát et undatá, vel castaneát, albissectato, columnellá interdum purpurascens, labro pallidiute luteo.

The geometric BULIMUS. Shell somewhat cylindrically turreted, umbilicated, sutures of the spire impressed; whorls seven in number, slightly rounded, smooth, last whorl peculiarly obliquely produced; columella broadly reflected; aperture obliquely ovate, lip reflected; whitish, irregularly filleted, and waved with brown, sometimes chestnut-brown, banded with white, columella sometimes purple, lip pale yellow.


Hab. New Granada.

An extremely interesting species distinguished in great measure by the obliquely produced growth of the last whorl.

Species 279. (Fig. a and b, Mus. Dennison; Fig. c, Mus. Cuming.)

BULIMUS VITTATUS. Boll. testá oblongo-turrít, subpellucidó, subanguliforbus umbilicát, anfractibus septem ad octo, levibus; columnellá reflexá, labro tenui, simplici; fasciá, purpureo-nigricante sepissimá variát fasciáto, interdum fuuscenté longitudinaliter striatát, interdum undique strinamát.

The banded BULIMUS. Shell oblong-turreted, somewhat transparent, rather largely umbilicated, whorls seven to eight in number, smooth; columella reflected, lip thin, simple; yellowish, most frequently variously banded with purple-black, sometimes streaked longitudinally with light brown, sometimes straw-colour throughout.

Spix, Test. Bras., p. 7, pl. 7. f. 4.

October, 1848.
Eadem var.

_Bulimus Coxeiramus_, Moricand.
_Hab._ Bahia and Pernambuco, Brazil.

The dark purple-black painting of this species is most variable.

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Species 280. (Mus. Cuming.)

_Bulimus strigatus._ _Bul._ testa oblongo-ovaté, subampliter umbilicaté, onfractibus sex, convexis, longitudinaliter creterrimé elevato-striatis, onfracti ultimo subobliqué producto; columellá latè reflexá, labro expanso; ceruleo-leste-ce-albá, livido-nigrícan te undaté et partim fasciáté, apice nigro.

The streaked Bulimus. Shell oblong-ovate, somewhat largely umbilicated, whorls six in number, convex, longitudinally very closely elevatedy striated, last whorl somewhat obliquely produced; columnella broadly reflected, lip expanded; bluish-white, waved and partially banded with livid-black, apex black.

Sowerby, Conch. Illus., f. 95, 96.
_Hab._ Huállaga.

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BULIMUS.—PLATE XLIV.

The dark painting of this species is partly in bands, and partly in longitudinally waved streaks.

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Species 281. (Mus. Dennison.)

_Bulimus Bolivianus._ _Bul._ testa cylindraceo-oblongá, subampliter umbilicatá, onfractibus septem, plano-convexis, levibus aut obscure striatis; columnellá latè reflexá, aperturá parviusculá, labro simplici; albídé, roseo-fusco cerebrifasciáte, fascis irregularibus, subinterruptis, apice roseo-fusco.

The Bolivian Bulimus. Shell cylindrically-oblong, somewhat largely umbilicated, whorls seven in number, flatly convex, smooth or obscurely striated; columnella broadly reflected, aperture rather small, lip simple; whitish, closely banded throughout with rose-brown, bands irregular, somewhat interrupted, apex rose-brown.

Pfeiffer, Pro. Zool. Soc., 1846. p. 34.
_Hab._ Andes of Bolivia.

The bands are less clearly defined in this species than is usual, and in some specimens run into one another.
Species 282. (Fig. a & b, Mus. Dennison.)

**Bulimus castus.** *Bul. testá subangulatá; tenui, gracilé, anfractibus quinque ad sex, longitudinaliter tenuiter irregulariter striatis, sub lente striis minutis impressis transversim excavatis; columellá angustá reflexá, labro expanso, vis reflexa; albidá vel pallide stramineá, fusco interdum sarsiim maculatá, columellá labroque pallide roseátas.

**THE CHASTE BULIMUS.** Shell somewhat fusiform-ovate, thin, slender, whorls five to six in number, longitudinally finely irregularly striated, beneath the lens sculptured transversely with minute impressed striae; columella narrowly reflected; white or pale straw colour, sometimes sparingly spotted with brown, lip and columella pink.


*Hab. Central America?*

Truly a chaste and delicately coloured species.

---

Species 283. (Mus. Cuming.)

**Bulimus Moricandi.** *Bul. testá ovatá, tenue, subangulá, dia- phaná, vis umbilicatá, anfractibus sex, levibus, tenui, diuseculá, sub lente transversim minimis impressis striatis; columellá reflexá, labro tenue, acuto; intus extusque crocéod.

**MORICANDI’S BULIMUS.** Shell ovate, rather thin, diaphanous, scarcely umbilicated, whorls six in number, smooth, rather swollen, transversely very minutely impressedly striated beneath the lens; columella reflected, lip thin, sharp; saffron yellow within and without.


*Hab. Central America.*

A bright semitransparent yellowish shell, without any trace of marking.

---

Species 284. (Mus. Cuming.)

**Bulimus onager.** *Bul. testá subpyramidali-turritá, vis umbilicatá, anfractibus septem ad octo, ad basin subangulátis, levibus; columellá subreflexá, labro expanso; albidá aut lutescenté, carnáceo-viridi cartá tincta et longitudinaliter striatá, apertura faveo fusco-reflexente.

**THE WILD-ASS BULIMUS.** Shell somewhat pyramidal turreted, scarcely umbilicated, whorls seven to eight in number, slightly angled at the base, smooth; columella but little reflected, lip expanded; whitish or yellowish, variously mottled and streaked with bluish-green, interior of the aperture brownish red.

*Hab. Bahia, Brazil.*

A prettily painted species closely allied to *B. vininunus*, but apparently distinct.

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Species 285. (Mus. Cuming.)

**Bulimus venosus.** *Bul. testá oblongo-ovatá, vis umbilicatá, anfractibus sex ad septem, convexis, levibus; columellá reflexá, labro tenui, acuto; albidá, linea castanea suturali, lineisque castaneis obliquis hic illic longitudinaliter pectá, apice nigro.

**THE VEINED BULIMUS.** Shell oblong-ovate, scarcely umbilicated, whorls six to seven in number, convex, smooth; columella reflected, lip thin, sharp; whitish, with a dark chestnut sutural line, and longitudinally painted here and there with chestnut lines, apex black.

*Hab. Angostura, Banks of the Orinoco.*

The painted lines are at very unequal distances throughout.

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Species 216. (Mus. Cuming.)

**Bulimus rudis.** *Bul. testá ovatá, ventriceo, vis umbilicatá anfractibus sex, rugosis, longitudinaliter ruder plicato-liratis, columellá reflexá, labro simplici; roseo-albidá, cinereo-fusco hic illic longitudinaliter striatá, apertura faveo roso-purpurascens.

**THE RUDE BULIMUS.** Shell ovate, ventricose, scarcely umbilicated, whorls six in number, rough, longitudinally rudely plicately ridged, columella reflected, lip simple; pinkish-white, longitudinally streaked here and there with ash-brown, interior of the aperture light rose-purple.

*Hab. Mexico.*

October, 1848.
A very characteristic delicately coloured species, of roughly plicated growth.

Species 287. (Mus. Cuming.)

**Bulimus liliaceus.** _Bul. testâ acuminato-ovatâ, tenui, diaphanâ, anfractiâbus sex, convexiâ, levibus, vel sub lente minutiissimâ impresso-striatis; columellâ angustâ reflexâ, labro tenui, acuto; pallidâ crocato-aurantiâ, roseâ basin versus tinctâ._

The lily-coloured Bulimus. Shell acuminately ovate, thin, diaphanous, whorls six in number, convex, smooth, or very minutely impressly striated beneath the lens; columella narrowly reflected, lip thin, sharp; pale saffron-orange, tinged towards the base with rose.

**Guilding, MSS. ?**

_Hab._ St. Vincents, West Indies?

Mr. Cuming possesses this shell as an inhabitant of St. Vincents, accompanied with the above name, as having been given to it by the Rev. Lansdowne Guilding. It is but right, however, to add that the authenticity of this name and locality requires confirmation.

Species 288. (Mus. Cuming.)

**Bulimus tenuissimus.** _Bul. testâ ovatâ, tenui, vix umbilicâtâ, anfractiâbus quinque ad sex, obscurâ rugoso-striatis; columellâ subdepressâ reflexâ, labro tenui, acuto; unique sordidâ fuscescente._

The very thin Bulimus. Shell ovate, thin, scarcely umbilicated, whorls five to six in number, obscurely roughly striated; columella somewhat depressly reflected, lip thin, sharp; pale dirty brown throughout.

**Helix tenuissima, De Férussac, MSS.**

_Hab._ Brazil.

One of the most common species, says M. Moricand, on the walls, in Brazil.

Species 289. (Mus. Cuming.)

**Bulimus Bengalensis.** _Bul. testâ conico-ovatâ, tenuicâtâ, umbilicâtâ, anfractiâbus sex, levibus, basin versus subangulato-productis; columellâ latâ reflexâ, labro tenui, acuto; albâ, linea castâna suturali, anfractus ultimo lineis duabus cingulato, columellâ pallidâ rosâceâ, apice nigro._

The Bengal Bulimus. Shell conically ovate, rather thin, umbilicated, whorls six in number, smooth, slightly angularly produced towards the base; columella broadly reflected, lip thin, sharp; whitish, with a sutural chestnut line, last whorl encircled round the lower part with two chestnut lines, columella tinged with pink, apex black.

**Lamarck, Anim. sans vert. (Deshayes' edit.), vol. viii. p. 233.**

_Hab._ Bengal.

Easily recognised by its black apex and characteristic linear painting, the lower part of the whorls being encircled by two chestnut lines, one of which is concealed in all but the last by the superposition of one whorl upon the other.
BULIMUS.

PLATE XLVI.

Species 290. (Mus. Cuming.)

BULIMUS VITRINOIDES. Bul. testá subgloboso-ovatá, tenue, fissurá, hyalina, apice brevi, acuto; anfractibus quinque, subradice striatis, ultimo ventricoso; columellá labroque simplicibus; perlucido-corneá.

The VITRINA-LIKE BULIMUS. Shell somewhat globosely ovate, rather thin, hyaline, apex short, sharp; whorls five in number, somewhat rudely striated, last whorl ventricose; lip and columella simple; transparent horny.

Hab. —— ?

This shell looks as if it were composed of fine glass, and is so delicately transparent, that the internal winding of the columella is discernible throughout.

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Species 291. (Mus. Benson.)

BULIMUS NILAGARICUS. Bul. testá cylindraceo-turrítæ, umbilicatá, anfractibus octo, convexis, concentricis substriatis, et sub lente minutiissimae transversae sulcatís, suturís subtilisiter crenulatis, columellá labroque expansis, vis reflexis; castaneo-fuscis, nitente, suturís albidís, labro albo.

The NEILGHERRY BULIMUS. Shell cylindrically turrit, umbilicate, with eight whorls, convex, and, under the lens, very minutely grooved transversely, sutures finely crenulated, lip and columella expanded, scarcely reflected; shining chestnut-brown, whitish at the sutures, lip whitish.


Hab. Neilgherry Hills, India; Jerdon.

Of a silken chestnut hue, whitish at the sutures.

———

Species 292. (Mus. Cuming.)

BULIMUS EXILIS. Bul. testá subcylindraceo-oblungá, anfractibus sex ad septem, longitudinaliter rude striatis, columellá labroque simplicibus, aperturá parvisculis; flavido-fuscenscente, subhyalínæ, apertura fave violaceo-albicante.

The DELICATE BULIMUS. Shell somewhat cylindrically oblong, whorls six to seven in number, longitudinally rudely striated, aperture peculiarly square, lip and columella simple, aperture rather small; yellowish-brown, somewhat hyaline, interior of the aperture violet-tinged.


Hab. —— ?

The sutures of this species are inclined to be white as in the preceding. It is not unlike the B. Guadaloupensis.

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Species 293. (Mus. Cuming.)

BULIMUS CINNAMOMEO-LINEATUS. Bul. testá subpyramidalis-ovatá, umbilicatá, umbilico parvo; anfractibus septem, convexis, levibus; columellá plano-reflexá, labro paulum expanso; albidá, lineae cinnamomeae obliquó striatá, anfractus ultimó bæni inmaculátæ.

The CINNAMON-LINED BULIMUS. Shell somewhat pyramidal ovate, umbilicate, umbilicus small; whorls seven in number, convex, smooth; columella flatly reflected, lip a little expanded; whitish, obliquely streaked with cinnamon lines, last whorl unsotted at the base.


Hab. Bahia, Brazil.

The cinnamon lines are suddenly arrested at the base of the last whorl.

———

Species 294. (Fig. a, Mus. Dennison;
Fig. b, Mus. Cuming.)

BULIMUS GUADALOUPENSIS. Bul. testá cylindraceo-oblungá, solidísimo, anfractibus sex, convexis, longitudinaliter rude et tenuiter striatis, aperturá peculiári ter quadrato-ovatá, columellá labroque subexansís, non reflexís; flavido-fuscescente, nigricante-castaneo interdum conspicuá fasciáta.

The GUADALOPE BULIMUS. Shell cylindrically oblong, rather solid, whorls six in number, convex, longitudinally rudely and finely striated, aperture peculiarly squarely ovate, lip and columella somewhat expanded, not reflected; light yellowish-brown, sometimes conspicuously banded with very dark chestnut.

Bruguière, Enc. Méth. Dict. no. 56.

Hab. West Indies.

Distinguished by the peculiar quadrate form of the aperture.

November, 1848.
Fig. 292 = B. suncoda Hf.
Species 295. (Mus. Cuming.)

**BULIMUS MULTIFASCIATUS.** *Bul. testa oblongo-ovata, vicum umbilicatâ, anfractibus sex, levibus, nitidos, columnellâ reflexa, labro simplici, acuto; lutescente-albâ, zonis roseis, violaceo-nigriscantibus marginatis, cingulatâ, apice nigriscante.*

The many-banded Bulimus. Shell oblong-ovate, but slightly umbilicated, whorls six in number, smooth, shining, columnella reflected, lip simple, sharp; yellowish-white, encircled with pink zones, edged with violet black, apex blackish.

**Lamarck, Anim. sans vert.** (Deshayes’ edit.) vol. viii. p. 233.

*Helix picturata*, Férussac.

*Hab.* West Indies.

Easily recognised by its pretty pink zones, which are brighter as seen in the interior.

Species 296. (Mus. Benson.)

**BULIMUS ABYSSINICUS.** *Bul. testa conico-ovata, umbilicate, anfractibus sex, ventricosis, subrotundatis, longitudinaliter crassithinatis, columnellâ latâ, aperturâ suborbiculari, labro expanso, non reflexo; nigrâ albo.*

The Abyssinian Bulimus. Shell conically ovate, rather largely umbilicated, whorls six in number, ventricose, somewhat rounded, longitudinally very closely finely ribbed; columnella broadly expanded, aperture nearly orbicular, lip expanded, not reflected; dull white.

**Rupell, MS.**

*Hab.* Abyssinia; Malwah, Central India; Benson.

Finely ribbed somewhat after the manner of the *B. Scalariformis*, but of a more Pupa-like character. Published with the above name on the authority of Mr. Benson, to whose kindness I am indebted for the species.

Species 297. (Mus. Benson.)

**BULIMUS JERDONI.** *Bul. testa sublabiata-ovata, ampliier umbilicatâ, spirâ brevissimâ, umbrinatâ, anfractibus sex, tuviâ, rotundatis, columnellâ latâ reflexâ, aperturâ suborbiculari, labro expanso, vicum reflexo; nigrâ albo.*

Jerdon’s Bulimus. Shell somewhat shortly ovate, largely umbilicated, spire rather short, acuminate, whorls six in number, swollen, rounded, columnella broadly reflected, aperture nearly orbicular, lip expanded, scarcely reflected; dirty olive-brown.

**Benson, MS.**

*Hab.* Deccan, Hindostan.

A short swollen species with somewhat of the Pupa character.

Species 298. (Mus. Cuming.)

**BULIMUS BENGALENSIS.** *Bul. testa oblongâ, solidissimâ, vicum umbilicatâ, anfractibus sex, convexis, subrotundatis, columnellâ reflexâ, labro vicum expanso, non reflexo; albo, ad umbilicium et suturas pallidâ aurantiaco-fuscascente.*

The Benguela Bulimus. Shell oblong, rather solid, scarcely umbilicated, whorls six in number, convex, very finely rudely striated; columnella reflected, lip but slightly expanded, not reflected; white, light orange-brown at the sutures and about the umbilicus.

**Hab.** Benguela.

Allied to the *B. Guadalupensis*, though from a very different locality.
BULIMUS.

PLATE XLVII.

Species 299. (Mus. Benson.)

BULIMUS VIREX. Bul. testa cylindraceo-turrítæ, sinistrali, sub-Pupiformi, diaphanæ, umbilicatæ, anfractibus novem, convexæ, obliquè striatis, aperturæ paræ, rotundatæ, labro plano-reflexo; pellucido-fuscescente, strigis opaco-albis obliquè notatæ.

THE STRIPED BULIMUS. Shell cylindrically turreted, sinstral, somewhat Pupa-shaped, diaphanous, umbilicated, whorls nine in number, convex, obliquely striated, aperture small, rounded, lip flatly reflected; light transparent brown, obliquely marked with opaque white stripes.


Hab. Simla and Landour, Western Himalaya, India (among moss); Benson.

A reversed cylindrical shell partaking very much of the character of Pupa.

Species 300. (Mus. Cuming.)

BULIMUS CREPUNDIA. Bul. testa subpyramidali-ovatæ, tenæ, diaphanæ, umbilicatæ, anfractibus septem, subtilissimæ rugoso-striatæ, columellæ reflexæ, labro simplici; pellucido-cornæ, opaco-albo hic illic obliquè notatæ.

THE PLAYTHING BULIMUS. Shell somewhat pyramidally ovate, thin, diaphanous, umbilicated, whorls seven in number, very finely roughly striated, columella reflected, lip simple; transparent horny, obliquely marked here and there with opaque white.


Hab. Chiquitos, Bolivía.

It is probably not without some doubt that Dr. Pfeiffer assigns this shell to the B. crepundia.

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Species 301. (Mus. Benson.)

BULIMUS CELEBS. Bul. testa cylindraceæ, Pupiformi, tenæ, diaphanæ, latæ umbilicatæ, anfractibus octo, obliquè striatis, columellæ latæ reflexæ, labro expanso non reflexo; pellucido-cornæ, strigis opaco-albis obliquè notatæ.

THE BACHELOR BULIMUS. Shell cylindrical, Pupa shaped, thin, diaphanous, broadly umbilicated, whorls eight in number, obliquely striated, columella broadly reflected, lip expanded, not reflected, transparent horny, obliquely marked with opaque-white streaks.


Hab. Landour and Keamoon, Western Himalaya, India, (on dead stems of the wild Indigo); Benson.

This and the two preceding species are of the same texture, a transparent horny substance, obliquely marked with opaque white streaks.

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Species 302. (Mus. Benson.)

BULIMUS GRIFFITHSII. Bul. testa elongatæ, subcylindraceæ, umbilicatæ, anfractibus octo, subplanulatis, levibus, columella latæ reflexæ, aperturæ subobliquè productæ, labro expanso, non reflexo; peculiariter calcareo-albo, aperture finæe pallide auranti-gfuscescente.

GRIFFITH'S BULIMUS. Shell elongated, somewhat cylindric, umbilicated, whorls eight in number, rather flattened, smooth, columella reflected, aperture somewhat obliquely produced, lip expanded, not reflected; of a peculiar chalk-white, tinged in the interior with pale orange-brown.

Benson, MS.

Hab. Afghanistan, India; Griffith.

Named by Mr. Benson after the lamented botanist Dr. Griffith, by whom the specimen here figured was collected.

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Species 303. (Mus. Benson.)

BULIMUS SINDICUS. Bul. testa cylindraceo-elongatæ, latæ umbilicatæ, anfractibus novem, plano-convexæ, levibus aut concentricis striatis, aperturæ paræ, columellæ labroque expansis, via reflexis; griseo-albo, strigis pellucidis hic illic obliquè notatæ.

THE SINDE BULIMUS. Shell cylindrically elongated, broadly umbilicated, whorls nine in number, flatly convex, smooth or concentrically striated, aperture small, lip and columella expanded, but slightly reflected; greyish white, here and there obliquely marked with pellucid streaks.

Benson, MS.

Hab. Near the head waters of the river Sinde, India; Benson.

November, 1848.
Mr. Benson informs me that this species was first collected by Capt. Hutton in the warmer valleys of the sub-Himalayan range, on the left bank of the Sutlej; and that specimens were transmitted to him from Khyber Pass by Capt. Barr.

Species 304. (Mus. Cuming.)

**Bulimus livescens.** Bul. testâ acuminato-ovâtâ, sub-turritâ, tenue, anfractuoso septem, subrotundatis, levibus, columnellâ simplex, labro tenue, acuto; livescente-albâ, interdum zonulis fuscinis anguis tribus cingulâtâ.

**The Bluish Bulimus.** Shell acuminately ovate, rather turreted, thin, whors seven in number, somewhat rounded, smooth, columna simple, lip thin, sharp; bluish-white, encircled with three narrow light-brown zones.

Pfeiffer, Monog. Bul. p. 175.

Hab. Tehuacan, Mexico.

It should be observed that in the banded variety the two lower bands, which are frequently broader than the uppermost, are only seen in the last whorl.

Species 305. (Mus. Cuming.)

**Bulimus fuscagula.** Bul. testâ cylindraceo-elongâtâ, basi compressâ, umbilicatâ, Pupiformi, anfractuoso novem, obtusâ striatis et peculiariter indentatis, columna bilamellatis, aperturâ parâ, contractâ, exstalâ; subcornuê, opaco-livoscente-albo strigâtâ et subtiliter reticulâtâ, labro roseo.

**The Fuscous-throat Bulimus.** Shell cylindrically elongated, compressed at the base, slightly umbilicated, Pupa shaped; whors nine in number, obtusely striated and peculiarly indented, columna with two tooth-like laminae, aperture small, contracted, expanded; somewhat horny, streaked and finely reticulated with opake yellowish white, lip rose.


Hab. Rio Janeiro.

Very closely allied to B. Janeirensis, and from the same locality; it seems, however, to differ in the columna laminae and reticulated arrangement of the opake pattern.

Species 306. (Mus. Cuming.)

**Bulimus Helena.** Bul. testâ subobeso-cylindraceâ, tenui, umbilicatâ, anfractuoso sex, rotundatis, striis minutis crebrerrimis decussatis, suturis impressis, columna lâbroque vis reflexis; squalidâ oливaceâ, semipellucidâ.

**The Helena Bulimus.** Shell somewhat stoutly cylindrical, thin, umbilicated, whors six in number, rounded, very closely decussated with minute striae, sutures impressed, lip and columna scarcely reflected; dirty olive, semitransparent.

Quoy and Gaimard, Voy. dans l’Astr. vol. 2. p. iii. pl. 9. f. 82.

Hab. St. Helena.

The minute decussated striae of this species are scarcely discernible without the aid of a lens.

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Species 307. (Mus. Cuming.)

**Bulimus constrictus.** Bul. testâ pyramidali-conicâ, umbilicatâ, anfractuoso septem, rotundatis, striis transversis et longitudinalibus minuittissimis decussatis, suturis peculiariter impressis; albida, semipellucidâ, epidermide tenui oливaceâ indutâ.

**The Tied Bulimus.** Shell pyramidal conical, umbilicated, whors seven in number, rounded, very minutely decussated with longitudinal and transverse striae, sutures peculiarly impressed; whitish, semitransparent, covered with a thin olive epidermis.

Pfeiffer, Symbolae, vol. 1. p. 43.

**Bulimus Augusteensis,** Gruener.

Hab. Augostura; Gruener.

Mainly characterized by the impressed growth of the sutures.

Species 308. (Mus. Cuming.)

**Bulimus digitale.** Bul. testâ obeso-ovâtâ, umbilicatâ, spire suturis peculiariter profundi impressis, anfractuoso quinque ad sex, subtiliter granuloso-reticulâtis, columna reflexâ, labro simplici; oливaceo-fuscâ.

**The Thimble Bulimus.** Shell stoutly ovate, umbilicated, sutures of the spire peculiarly deeply impressed, whors five to six in number, finely granulously reticulated, columna reflected, lip simple; olive-brown.

Hab. — ?

The surface of this shell is reticulated in a delicate wrinkled manner, covered by a silken olive epidermis, and the sutures are universally deeply impressed.
BULIMUS.

PLATE XLVIII.

Species 309. (Mus. Cuming.)

BULIMUS MACULATUS. Bul. testa sub-pyramidali-ovata, vix umbilicata, anfractibus convexis, levibus, transversim sub lente minutissimæ impresso-striatis, columnella reflexa, labro simplici, acuto; viridescante-albidæ, macrocarpus fusco-olivaceus, quadratis bis illicis notata.

THE SPOTTED BULIMUS. Shell somewhat pyramidal ovate, scarcely umbilicated, whorls convex, smooth, transversely very minutely impressed striated, columella reflected, lip simple, acute; greenish-white, marked here and there with square brownish olive spots.

Lea, Obs. vol. ii. p. 84. p. 28, f. 97.

Hab. Carthagena, New Granada.

The square spots though irregular and scattered are mostly situated in the same line longitudinally.

Species 310. (Mus. Cuming.)

BULIMUS TRILINEATUS. Bul. testa oblongo-ovata, tenuiculata, anfractibus sex, subrugoso-striatis, ad suturas cronulatæ, labro tenui, acuto; albidæ, striis rufo-fuscis longitudinalibus plus minusve densi notata.

THE TRLINEATE BULIMUS. Shell oblong ovate, rather thin, whorls six in number, somewhat roughly striated, crenulated at the sutures, lip thin, sharp; whitish, more or less thickly marked with red-brown longitudinal stripes.

Quoy and Gaimard, Voy. dans l'Astrol. vol. ii. p. 107, pl. 9. f. 1 to 3.

Hab. New Holland.

It is necessary to observe that this species is named after a character in the animal, whose neck and back are marked with three lines.

Species 311. (Mus. Cuming.)

BULIMUS MANOELII. Bul. testa acuminato-ovata, subumbilicata, anfractibus septem, levibus, vel obliqui indistincte striatis, columnellæ late reflexæ, labro termin-culo, vix reflexæ; albidæ, anfractu ultimo inferni purpureo-olivaceo bisfasciato.

MANOEL'S BULIMUS. Shell acuminately ovate, slightly umbilicated, whorls seven in number, smooth, or obliquely indistinctly striated, columella broadly reflected, lip rather thin, scarcely reflected; whitish, last whorl encircled round the lower part with two purple olive bands.


Hab. Bahia, Brazil.

The upper band, being exactly on the sutural line, is nearly concealed in all but the last whorl.

Species 312. (Mus. Cuming.)

BULIMUS ANGIOSTOMA. Bul. testa sub-cylindraceo-ovata, vix umbilicata, anfractibus octo, tunidiusculis, ultimo ad aperturam peculiarii compresso; aperturâ oblongâ, angustâ, labro extimë plano-reflexo; cinereo-albidâ, lineis nigricantibus et fuscis longitudinalitis pictâ, apertura fuscâ fusca.

THE NARROW-MOUTH BULIMUS. Shell somewhat cylindrically ovate, scarcely umbilicated, whors eight in number, rather swollen, last whorl peculiarly compressed at the aperture; aperture oblong, narrow, lip delicately flatly reflected; ashy white, longitudinally painted with black and brown lines, interior of the aperture brown.


Bulimus Copeira, Spix.

Testa junior. Bulimus virgatus, Spix.

Hab. Brazil.

The singular compression of the aperture forms a very characteristic feature in this species.

Species 313. (Mus. Cuming.)

BULIMUS OREADES. Bul. testa acuminato-oblongâ, umbilicata, anfractibus sex ad septem, levibus, vel minutissimæ impresso-striatis, columnellæ reflexæ, labro tenui, acuto; flavescante-albidâ, striis olivaceo-fuscis, anfractu medio desinentibus, peculiarii notatis.

THE OREADES BULIMUS. Shell acuminate oblong, umbilicated, whors six to seven in number, smooth, or very minutely impressively striated, columella reflected, lip thin, sharp; yellowish-white, peculiarly marked with olive-brown streaks, ending in the middle of the whors.


November, 1848.
Fig. 216 - P. Fourny. v. p. 24. Ann.

Fig. 218. Dédicace dans l'index de la Man.
Hab. Province of Corrientes, Argentine Republic, Bolivia (under dead leaves); D’Orbigny.

The chief specific peculiarity of this species resides in the painting, which does not descend below the sutural line of the whorls.

Species 314. (Mus. Cuming.)

**Bulimus feriatus.** Bul. testa subuniformi, vis umbilicata, anfractibus sex, subtiliter rugoso-striatis, suturis impressis, columellâ reflexâ, aperturâ partiusculâ, labro expanso; fuscescente, fusco striatâ et variegata, punctis albis asperâ.

The Unemployed Bulimus. Shell somewhat fusiform, scarcely umbilicated, whorls six in number, finely roughly striated, sutures impressed, columella reflected, aperture rather small, lip expanded, light brown, streaked and variegated with bright brown, sprinkled with white dots.

Hab. —?

Dr. Pfeiffer, when in London, attributed this shell to the B. lophoicus of D’Orbigny, but it fails to agree with the description and figure of that species, and appears to be equally distinct from all others.

Species 315. (Mus. Benson.)

**Bulimus Bontia.** Bul. testâ conico-ovata, tenui, ventricosa, subtiliter umbilicata, anfractibus quinque, minutâ obliquâ striatis, medio tumide, inflatis, columellâ tate reflexâ, labro tenui, expanso, non reflexo.

The Bontia Bulimus. Shell conically ovate, thin, ventricose, finely umbilicated, whorls five in number, minutely obliquely striated, swollen and inflated round the middle, columella broadly reflected, lip thin, expanded, not reflected.


Hab. Southern India; Jordon.

An extremely rare species, though described upwards of sixty years since by Chemnitz in his Conchylia Cabinet. The specimen here represented, for which I am indebted to the kindness of Mr. Benson, was collected in Southern India by Mr. Jordon of Madras.

Species 316. (Mus. Cuming.)

**Bulimus confusus.** Bul. testâ oblongo-ovata, tenuiculâ, vis umbilicata, spira suturis impressis, anfractibus sex, convexus, longitudinaliter crerebrinâ plicato-striatis, et hic illic indentatis; fuscocente-albidâ.

The Puzzling Bulimus. Shell oblong-ovate, rather thin, scarcely umbilicated, sutures of the spire impressed, whorls six in number, convex, longitudinally very closely plicately striated, and here and there indented; light brownish white.

Hab. —?

This shell resembles M. D’Orbigny’s B. Torallyi in form, but does not agree with it in the detail of character.

Species 317. (Mus. Cuming.)

**Bulimus quittensis.** Bul. testâ conico-ovata, subampliter umbilicata, anfractibus septem, convexus, concentricâ subrugoso-striatis; columellâ labroque vis reflexis; fuscocente castaneo-fusco hic illic striatâ, umbilico nigratâ, columellâ labroque purpureo-castaneis, sinuâtibos.

The Quito Bulimus. Shell conically ovate, rather largely umbilicated, whorls seven in number, convex, concentrically rather roughly striated, lip and columella scarcely reflected; light-brown, streaked here and there with chestnut-brown, umbilicus blackish, lip and columella shining purple chesnut.


Hab. Quito, Republic of Equador.

The general aspect of this shell is not much unlike that of an immature Partula faba.

Species 318. (Mus. Cuming.)

**Bulimus montifer.** Bul. testâ subpyramidali-ovata, umbilicata, anfractibus convexus, levis, columellâ reflexâ, aperturâ subquadratâ, labro simplici; opaco-albâ, fascis duabus interruptis aurantio-fuscis, valde indistinctis, cingulatâ, aperturâ aurantio-fusci.

The Necklace-bound Bulimus. Shell somewhat pyramidal-ovate, umbilicated, whorls convex, smooth, columella reflected, aperture somewhat square, lip simple; opaque-white, encircled with two very indistinct interrupted orange-brown bands, aperture tinged with orange.

Hab. —?

Indistinctly encircled by two characteristic interrupted bands. The aperture is remarkable for the same lateral compression as in the B. Guadalauensis.
BULIMUS.

PLATE XLIX.

Species 319. (Mus. Cuming.)

BULIMUS FABREFACTUS. Bul. testá pyramidalis, ad basin angulato-compressæ et umbilicatæ, anfractibus septem, longitudinaliter rugoso-striatis et irregulariter indentatis, columellæ reflexæ, aperture ad basin canaliculariâ, labro simplici; albâ, fasciis castaneis interruptis varie dispositis, interfusis rugoso-striatis, labro reflexo; columna subrude basale, et umbilicatæ, columna pallida, apertura fuso carniæscente.

THE CURIOUSLY-FORMED BULIMUS. Shell pyramidal, angrily compressed and umbilicated at the base, whors seven in number, longitudinally roughly striated and irregularly indented, columella reflected, aperture channelled at the base, lip simple; whitish, finely and closely streaked with brown, the streaks descending only to the basal angle, columella tinged with pink, interior of the aperture bluish.

Hab. Province of Merida, New Granada; Lãden.

Of the same peculiarly angled structure at the base as the B. canaliculatus, from which it is amply distinguished by its more elongated form, solid growth, and different style of colouring.

Species 320. (Fig. a and b, Mus. Cuming.)

BULIMUS VIRGULATUS. Bul. testá acuminato-oblonga, vis umbilicatæ, anfractibus septem, lavoibus, apertura ovala, labro simplici; albâ, fasciis castaneis interruptis variâ dispositis, interfusis rugoso-striatis, labro reflexo, columna bluish-white.


Bulimus Caribbæorum, Lamarck.

Hab. West Indies.

Extremely variable both in colour and pattern.

Species 321. (Mus. Cuming.)

BULIMUS LITUS. Bul. testá oblongo-ovata, tenui, ventricosa, vis umbilicatæ, anfractibus sex, obliquis creberribus striatis, labro tenui simplici; albâ, nigrante-carnalveo longitudinaliter maculata et nudata.

The mottled BULIMUS. Shell ovate, thin, ventricose, scarcely umbilicated, whors six in number, obliquely very closely striated, lip thin, simple; whitish, longitudinally blotched and waved with blackish-blue.

Helix lita, Férussac, Prodrome, p. 54.

Bulimus littoralis, Spix.

Bulimus magus, Wagner.

Hab. Brazil.

Very closely allied to the B. papyraceus, which it is not improbable may be another state of the species.

Species 322. (Mus. Cuming.)

BULIMUS MILTOCHELIUS. Bul. testá acuminato-oblonga, subglobosæ, umbilicatæ, anfractibus sex, ovoïdes, semipellucidæ, nitentibus, longitudinaliter punctata; columna bluish-white, apertura oblonga, labro reflexo; columna rugoso-striatis, labro reflexo; columna subrude basale, et umbilicatæ, columna pallida, apertura fuso carniæscente.

THE VERMILION-LIP BULIMUS. Shell acuminately oblong, somewhat cylindrical, umbilicated, whors six in number, smooth, semitransparent, shining, longitudinally peculiarly plaited, columella broadly reflected, aperture oblong, lip reflected; waxen-white, lip deep scarlet-vermilion.

Hab. San Christoval, south-eastern island of Solomon’s Group, north-east coast of New Holland.

A shell of curiously plaited growth, remarkable for its semipellucid wax-like appearance, with which its rich vermilion lip presents a notable contrast. Mr. Cuming possesses several specimens from the above named locality, all in the same condition, which seems perfectly natural and not the result of any artificial clearing.

Species 323. (Mus. Cuming.)

BULIMUS RHODOSTOMA. Bul. testá ovata, subventricosa, umbilicatæ, anfractibus sex, longitudinaliter subrude striatis, ad suturas crenulatis, columna reflexæ, labro simplici; roseo-brunnescente.

THE ROSE-MOUTH BULIMUS. Shell ovate, rather ventricose, umbilicated, whors six in number, longitudinally somewhat rudely striated, crenulated at the sutures; columella reflected, lip simple; rose-brown.


Hab. New Holland?

November, 1848.
This shell has been ascribed to the above-recorded species in Mr. Cuming's collection, and is so published here, but, it should be added, with considerable doubt.

Species 324. (Mus. Cuming.)

**Bulimus hyematus.** *Bul. texta acuminato-ovata, anfrac- tionibus septem, peculiari plicato-corrugatis, aperturâ parciusculâ, labro simplici; cinerascensc-albâ, apertura fauce roseo-purpurea.*

**The frozen Bulimus.** Shell acuminately ovate, whorls seven in number, peculiarly plicately wrinkled, aperture rather small, lip simple; pale ash-white, rose-purple in the interior.

*Hab.* ?

The surface of this shell is plicately wrinkled in a manner different from any other species. Externally it is of French-white hue, purplish towards the apex, and the mouth is tinged with deep purple-rose throughout.

Species 325. (Mus. Cuming.)

**Bulimus sporadicus.** *Bul. texta elongato-ovata, pyra- midali, vis umbilicata, anfractibus octo, sublevibus, aperturâ parvâ, labro tenui, acuto; albidd, nigricantes- fuso varie lineata et undata.*

Species 326. (Mus. Cuming.)

**Bulimus teniolus.** *Bul. texta cylindraceo-ovata, ad basin rotundatâ, anfractibus septem, minutâ granulatâ, ad suturas crenulatis, cumulâtâ reflexâ, labro vis reflexo; fulvo-castaneo, ad suturas albizonatâ, apertura fauce lividâ, peritreme albidâ.*

**The filleted Bulimus.** Shell cylindrically ovate, rounded at the base, whors seven in number, minutely granulated, crenulated at the sutures, columnella reflected, lip scarcely reflected, fulvous chestnut, zoned with white at the sutures, interior of the aperture livid, peritreme white.

**Hab.** South America.

Of a peculiar obtusely rounded growth at the base.
BULIMUS.

PLATE I.

Species 327. (Fig. 327, 328. Mus. Cuming.)

Bulimus Adansoni. Bul. testá oblongo-ovatá, tenuiculá, viz umbilicatá, anfractibus novem, subtilissimá granulato-striatis, ad suturás subtiliter crenulátis, columellá rectá, revolutá, labro simplici, acuto; albida, castaneo-fusca conspicua longitudinaliter flammatá, epidermide tenui straminte induta, columella et aperture pavoce purpurascente-carneis.

Adanson’s Bulimus. Shell oblong-ovate, rather thin, scarcely umbilicated, whorls nine in number, very finely granulately striated, finely crenulated at the sutures, columella straight, rolled back, lip simple, sharp; whitish, conspicuously longitudinally flamed with chestnut-brown, covered with a thin straw-coloured epidermis, columella and interior of the aperture purplish-blue.

Pfeiffer, Monog. Bul. p. 179.

Le Kamben, Adanson.
Bulimus Kamben, Bruguère.
Cochlogena edilis, Pérussac.

Fide Pfeiffer.

Bulimus specious, Parreys.
—— Kordofanus, Parreys.
—— xantholmus, Ziegler.
—— Achatinoidea, Ziegler.

Hab. West coast of Africa.

Dr. Pfeiffer’s name for this species is to be preferred to that adopted by Bruguère and Lamarck, which does not enter strictly in the Latin form of nomenclature.

For Species 328, see Pl. LVIII.

Species 329. (Mus. Cuming.)


Rupell’s Bulimus. Shell somewhat shortly ovate, ventricose, scarcely umbilicated, whorls seven in number, very closely flatly granulated, columella straight, rolled back, lip simple, sharp; whitish, longitudinally painted with rather narrow chestnut-brown flames, covered with a thin straw-coloured epidermis.

Hab. Abyssinia; Rupell.

Constantly distinguished from the preceding species by its shortened ventricose growth.

Species 330. (Mus. Cuming.)

Bulimus Africanaus. Bul. testá acuminato-ovatá, profunde umbilicatá, anfractibus novem, subrotundatis, reticulato-striatis et subtilissimá concentricó corrugatis, ad suturás crenatás, columellá rectá, revolutá; livido-albida, castaneo-fusca pallide flammatá, flammis subdistantibus.

The African Bulimus. Shell acuminately ovate, deeply umbilicated, whorls nine in number, somewhat rounded, reticulately striated and very finely concentrically wrinkled, crenated at the sutures, columella straight, rolled back; livid white, faintly marked with rather distant longitudinal chestnut-brown flames.

Hab. West coast of Africa.

This seems constantly distinguished from the B. Adansoni in size, in form, and in pattern of colouring.

November, 1848.
BULIMUS.

PLATE LI.

Species 331. (Mus. Cuming.)

Bulimus mutilatus. Bul. testa attenuato-pyramidali, crassiuscula, umbilicata, anfractibus quatuor ad quinquaginta, deinque latet decollatis, oblique rude striatis, anfractibus ultimis basi subangulato-tumido, apertura parva, rotundata; squamis albas.

The mutilated Bulimus. Shell attenuately pyramidal, rather thin, umbilicated, whorls four to five in number, then broadly decollated, obliquely rude striated, last whorl somewhat angularly swollen at the base, aperture small, rounded, dirty-white.

Hab. — ?

Distinguished from the B. decollatus by its more attenuately pyramidal form and contracted aperture.

Species 332. (Mus. Cuming.)


Gruner's Bulimus. Shell cylindrically turreted, slightly umbilicated, whorls seven in number, flatly convex, smooth, shining, columella depressely reflected, aperture rather small, lip thin, simple; bluish-white, marked here and there with irregular bands of light brown square-like spots, apex purple-black.


Hab. Mexico.

Named in honour of Mr. Gruner, an eminent collector at Bremen.

Species 333. (Mus. Cuming.)


The white Bulimus. Shell acuminately oblong, slightly umbilicated, whorls eight in number, convex, smooth, columella reflected, lip simple; white, sometimes encircled with two or three interrupted brown bands, interior of the aperture tinged with orange.


Helix albata, De Ferussac.

Bulimus bicinctus, Recluz.

Hab. Yemen, Arabia.

Rarely more than a single indistinct band is visible on the upper whorls.

Species 334. (Mus. Cuming.)

Bulimus decollatus. Bul. testa cylindraceo-longata, anfractibus ad septem, deinque decollatis, plano-convexa, striae spirabilibus et obliquis subtiliter decussatis, margine crenulatis, columellâ reflexa, apertura parvisculata, labro simplici; albido, aut pallidâ spadiceo.

The decollated Bulimus. Shell cylindrically elongated, whorls about seven in number, then decollated, flatly convex, finely decussated with spiral and oblique strie, crenulated at the margin, columella reflected, aperture rather small, lip simple; whitish, or pale fawn-colour.

Bruguier, Enc. Méth. Dict. no. 49.

Helix decollata, Linnaeus.

Hab. South of Europe. Sicily and the Canary Islands.

This well-known species occurs in a larger state in some parts of Northern Africa.

Species 335. (Mus. Cuming.)


The gilded Bulimus. Shell oblong-turreted, very thin, transparent, whorls seven in number, rather ventricose, longitudinally very closely elevately striated, columella simple, lip thin, sharp; golden-olive, glassy, obsolete marked with minute spiral brown lines.


Hab. — ?

A delicate glassy species of the substance and colour of a Vitrina.

November, 1848.
BULIMUS.—Plate Ll.

Species 336. (Mus. Cuming.)

Bulimus Kingii. Bul. testa acuminato-ovata, crassiscutata, vix umbilicata, anfractibus septem, levibus aut obvusor striatis, columellâ latâ reflexa, labro simplici; alba, lineis fuscis frequentibus longitudinaliter pictâ, columellâ fusca, apertura faveo fuscoscent.

King’s Bulimus. Shell acuminate ovate, rather thick, scarcely umbilicate, whorls seven in number, smooth or obscurely striated, columella broadly reflected, lip simple; white, longitudinally painted with numerous brown lines, columella brown, interior of the aperture light brown.


Wood, Ind. Test. Supp. pl. 7. f. 27.

Hab. New Holland; King.

The brown colouring of the columella has a kind of metallic hue.

Species 337. (Mus. Metcalfe.)

Bulimus maximus. Bul. testâ oblongâ, ventricosa, anfractibus sex, tumida, subrotundata, longitudinaliter rudâ striata, penultima granulata, prope apicem subtiliter radiatim costellata, columellâ subjecta, crassiscutata, apertura parvisculata, labro solidulo, reflexo; sordata albâ, purpurea-brunescens tinctâ, epidermae luteo-olivaceâ nitente induta, columellâ et peritreme albis.

The very large Bulimus. Shell oblong, ventricose, whorls six in number, swollen, somewhat rounded, longitudinally rudely striated, last whorl but one granulated, finely radiately ribbed near the apex, columella nearly straight, somewhat thick, aperture rather small, lip solid, reflected; dirty white, stained with light purple-brown, covered with a shining yellowish-olive epidermis, columella and peritreme white.


Bulimus Kremnoicus, D’Orbigny.

Hab. Santa Cruz, Bolivia; D’Orbigny.

Although a large species, is this inferior in size to the B. Popelairianus, from which it differs in its more oblong proportions and smaller aperture.

Species 338. (Mus. Cuming.)


The effeminate Bulimus. Shell acuminate oblong, slightly umbilicate, rather thin, whorls eight in number, somewhat flattened, longitudinally delicately impressedly striated, columella reflected, lip simple, sharp; bluish white, purple-brown, towards the apex, with distant narrow stripes of the same colour.

Hab. ——?

A delicate opaque-white shell gradually more deeply tinged with purple-brown towards the apex.

Species 339. (Mus. Cuming.)

Bulimus Olivieri. Bul. testâ ovata, ventricosa, anfractibus sex ad septem, longitudinaliter exiliter plicato-costellata, interstices subullismissi decussatis et punctatis, columellâ reflexâ, labro incrassato, reflexo; sericeo-brunnea, subolivacea, peritreme flaviscante.

Olivier’s Bulimus. Shell ovate, ventricose, whorls six to seven in number, somewhat flattened, longitudinally delicately plicate ribbed, with the interstices very finely decussated and punctured, columella reflected, thickened at the edge, lip thickened and reflected; silken-brown, of an olive hue, peritreme yellowish.

Pfeiffer, Monog. Bul. p. 117.

Hab. Abyssinia.

An exceedingly beautiful species in fine condition, when examined with the lens.
Species 340. (Mus. Cuming.)

**Bulimus sylvestris.** *Bul. testa elongato-turritâ, gracilis, solidiusculâ, anfractibus undecim, plano-convexis, levibus, aut minuissetis striatis, politis, opice sub-papillarius, apertura parvâ, columellâ labroque simpliciâ; eburnê, epidermide tenui strians incisâ partim indutâ.*

The sylvan Bulimus. Shell elongately turrit, very slender, rather solid, whors eleven in number, flatly convex, smooth, polished, somewhat papillary at the apex, aperture small, thin and columella simple; ivory white, partially covered with a light straw-coloured epidermis.


Hab. Mexico and Brazil (in the woods); Spix.

A semitransparent ivory-white shining shell, partially covered with a slight epidermis.

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Species 341. (Mus. Cuming.)

**Bulimus teretaster.** *Bul. testa elongato-turritâ, tenuis, pelliculâ, opice tumidâ, subtruncatâ, anfractibus novem subundique creberrimâ concentricâ elevato-striatis, columellâ tenui, simplicissimâ, introrsum arcuatâ, labro tenuissimo, acuto; corneo-lateâ.*

The terete Bulimus. Shell elongately turrit, thin, transparent, whors nine in number, swollen at the apex, somewhat truncated, very closely concentrically sculptured throughout with raised striae, columella thin, very simple, arched inwardly, lip very thin and sharp; horn yellow.


*Bulimus hoplostylus,* Pfeiffer.

Hab. El Catamajâ, near Loxa, Republic of Equador, South America; Hartweg.

Chiefly distinguished by the very simple structure of the columella and the raised concentric striae which have almost the appearance of fine ribs.

I am indebted to a visit to the collection of the Rev. S. C. E. Neville Rolfe of Heacham Hall, for having had my attention directed to the above recorded species of De Férrussac, with which Dr. Pfeiffer does not seem to have been acquainted.

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Species 342. (Mus. Cuming.)

**Bulimus calcareus.** *Bul. testa elongato-turritâ, opicus versus solidiusculâ, tumidâ, anfractibus duodecim, longitudinaliter subtiliter striatis, striis minuiitum impressis spiritalibus decussatis, apertura parvâ, columellâ labroque simpliciâ; calcareo-albâ, epidermide castaneo-brunneo nitente indutâ.*

The lime-white Bulimus. Shell elongately turrit, rather solid and swollen towards the apex, whors twelve in number, longitudinally finely striated, decussated with minute spiral impressed striae, aperture small, lip and columella simple; chalk-white, covered with a shining chestnut brown epidermis.


*Helix calcaria,* Born.

Bulimus maritimus, Spix, Deshayes.

Hab. Brazil,

M. Deshayes is correct in assigning this species to the *B. maritimus* of Spix, but it will be found to agree also with the *Helix calcaria* of Born, represented in the Mus. Casing, striped of its rich brown chestnut epidermis, beneath which it is of a peculiar opaque lime-white character. It is the largest and most solid of the turriculated Bulini, and has not a reflected lip.

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Species 343. (Mus. Cuming.)

**Bulimus obeliscus.** *Bul. testa elongato-turritâ, acuminate, anfractibus sedecim ad octodecin, plano-convexis, subtiliter obliquâ striati, striis minuissetis spiritalibus impressis decussatis, columellâ labroque simpliciâ; albâ, epidermide tenuissimâ luteo-olivaceâ indutâ.*

The obelisk Bulimus. Shell elongately turrit, acuminate, whors eighteen in number, flatly convex, finely obliquely striated, and decussated with very minute spiral impressed striae, lip and columella very simple; whitish, covered with a rather thin yellowish epidermis.


Hab. Near Caravashas, Brazil; Moricand.

Distinguished by having the largest number of whors and most sharply terete growth, whilst the epidermis is very thin, and of a light yellowish olive-colour. It should
Fig. 141 = B. haplophyllus Rfr. B. trebula
セリエの中の aftermarket
Zett. 1849. p. 46.
be observed that the shell grows to a more acuminated point than in the specimen here represented, which has the first whorls broken off.

Species 344. (Mus. Cuming.)

**Bulimus obtusatus.** Bul. testá elongato-turretá, basi subobliquè productá, umbilicatá, apice tumidá, obtusá, anfractibus decem ad undecim, plano-convexis, obliquè creberrimè costulato-striatís, aperturá ovali, labro in-crassato, paululum reflexó; labro in-crassato, refo-fusco hic illic irregulariter tinctá et strigatá.

The blunted *Bulimus*. Shell elongately turreted, rather obliquely produced at the base, umbilicated, swollen and obtuse at the apex, whorls ten to eleven in number, flatly convex, obliquely very closely sculptured with rib-like striae, aperture oval, lip thickened, a little reflected; yellowish-white, irregularly stained and streaked here and there with red-brown.


*Helix obtusata*, Gmelin.

*Bulimus calcareae*, Bruguière, Lamarck, Deshayes.

*Hab.* Madagascar; Beck.

This shell, distinguished by Lamarck as having a reflected lip, has been confounded with the *Helix calcarea* of Born, an examination of whose figure will show that it represents a worn specimen of Sp. 342, deprived of its epidermis.

Species 345. (Mus. Cuming.)

**Bulimus clavator.** Bul. testá elongato-oblongá, basi tumidá et subobliquè productá, vix umbilicatá, anfractibus octo, longitudinaliter rudè elevato-striatís, ad suturas crenulatís, columella subdepresso-reflexá, labro simplex, aut paululum reflexo, superne compresso; pallidě livido-olivaceá.

The club-bearing *Bulimus*. Shell elongately oblong, swollen and somewhat obliquely produced at the base, scarcely umbilicated, whorls eight in number, longitudinally rudely striated, crenulated at the sutures, columella somewhat depressely reflected, lip simple or a little reflected, compressed at the upper part; pale livid olive.

Petit, Mag. de Zool. 1844, pl. 94.

*Hab.* Madagascar.

The sutures, as in many species of this form, are white.
BULIMUS.

PLATE LIII.

Species 346. (Mus. Cuming.)

**Bulimus consimilis.** Bul. testa oblonga, subcylindracea, basi rotundata, tenui, anfractibus sex ad septem, longitudinaliter tenue-striatis, ultimo ventriculusculino, colunella simplicissimae, labro simplici; brunneescant, nitente, striis saturationibus hic illic notatâ, apertura fauce cerascocentae.

The similar **Bulimus.** Shell oblong, somewhat cylindrical, rounded at the base, thin, whorls six to seven in number, longitudinally finely striated, last whorl rather ventrosco, colunella very simple, lip simple; light brown, marked here and there with streaks of darker brown, interior of the aperture bluish.

*HaB.* — ?

This shell approaches nearest to the *B. Tuunaisii*, but is certainly distinct.

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Species 347. (Mus. Cuming.)

**Bulimus tendebrius.** Bul. testa cylindraceo-oblunga, anfractibus septem ad octo, subrotundatis, propria suturas subtilissimae reticulatis, marginie crenulatis, colunella revoluta, labro simplici, acuto; albida, purpureo-roseo tincta, purpureo-nigricoante conspicuo grandis maculatâ.

The darkened **Bulimus.** Shell cylindrically oblong, whorls seven to eight in number, rather rounded, very finely reticulated near the sutures, crenulated along the edge, colunella rolled back, lip simple, sharp; whitish, stained with purple-rose and conspicuously painted with large blotches of purple-black.

*HaB.* Ibu, West Africa; Fraser.

Distinguished from *B. flammens*, by its dwarf-like growth and rich purple-rose hue. The specimen here represented, was collected by Mr. Fraser during the unfortunate Expedition to explore the source of the Niger.

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Species 348. (Mus. Cuming.)

**Bulimus spectralis.** Bul. testa cylindraceo-oblunga, via umbilicata, anfractibus septem, levibus, colunellâ revolutâ, labro tenui, acuto; albida, epidermide tenui, stramineo inductâ.

The spectral **Bulimus.** Shell cylindrically oblong, slightly umbilicated, whorls seven in number, smooth, colunella rolled back, lip thin, sharp; whitish, covered with a thin straw-coloured epidermis.

*HaB.* — ?

Care must be taken not to confound this species with the uncoloured variety of *B. flammens*, from which it differs in form, and in not being reticulated.

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Species 349. (Mus. Metcalfe.)

**Bulimus inca.** Bul. testa cylindraceo-oblunga, umbilicata, anfractibus septem ad octo, longitudinaliter plicato-striatis, suturis subprofundis, colunellâ latâ reflexa, labro paululum reflexa; nigricante-brunned, subolivaceo, colunellâ alba, apertura fauce purpureocinerea.

The **Inca Bulimus.** Shell cylindrically oblong, umbilicated, whors seven to eight in number, longitudinally plicately striated, sutures rather deep, colunella broadly reflected, lip a little reflected; blackish-brown, tinged with olive, colunella white, interior of the aperture purple-ash.


*HaB.* Yungas and Cochabamba, Bolivia; D’Orbigny.

The specimen here represented from the collection of Mr. Metcalfe, is the only one that I am aware of in this country.

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Species 350. (Mus. Dennison.)

**Bulimus suffusus.** Bul. testa elongato-cylindracea, umbilicata, anfractibus novem, subobsolêto plicato-striatis, marginie crenulati, levibus, nitidis, suturis profundis, aperture parvâ, oblongâ, colunellâ revolutâ, labro simplici, acuto; albâ, roseo suffusâ, epidermide tenui intestice inductâ.

The blushing **Bulimus.** Shell elongately cylindrical, umbilicated, whors nine in number, rather obsolescently plicately striated, crenulated at the margin, smooth, shining, sutures deep, aperture small, oblong, colunella rolled back, lip simple, acute; whitish, suffused with rose, and covered with a thin yellowish epidermis.

*HaB.* — ?

November, 1848.
Fig. 346 = P. Zargilliottii Philipp.

Fig. 380 = B. Adansonii v. 1. Mais Pf. [1804]

L'admet comme érigé. Zeyher, p. 42.
BULIMUS.—PLATE LIII.

Of a peculiarly swollen cylindrical form, approximating to B. chrysalidiformis in an immature state, but of a totally different texture and detail of character.

Species 351. (Mus. Cuming.)


The Numidian Bulimus. Shell pyramidally turreted, whorls nine in number, somewhat rounded, very finely reticulately striated, crenulated at the edge, columella rolled back, lip simple, sharp; yellowish white, peculiarly flamed with reddish chestnut.

Hab. Prince's Island, West Africa.

This species has been probably confounded by many with the B. flammeus, from which it constantly differs in form, sculpture, and colouring.

Species 352. (Mus. Cuming.)


The Flamed Bulimus. Shell oblong-turreted, whorls eight in number, somewhat rounded, reticulately striated, columella rolled back, lip simple, sharp; yellowish-white, tinged with purple-red towards the apex; and broadly flamed with dark chestnut-brown, interior of the aperture bluish.

Bruguière, Enc. Méth. vol. i. p. 322.

Helix flammeæ, Muller.

Hab. Banks of the Niger, Africa; Fraser.

Distinguished from the preceding species by its more oblong form, absence of sutural crenulations, purple-rose colouring, and broader flames.
Species 353. (Fig. a and b, Mus. Cuming.)

**Bulimus rosatius.** Bul. testa olivello-ovata, teuniculata, vix umbilicatā, anfractibus sex ad septem, subnervosiis, transversim minutissimum impresso-structis, columellā reflexa, labro subexpanso, tenue, alba; albidā, rosae exiliter tincta, strigis fuscocelebris longitudinibus interdum superne notātā.

**The roseate Bulimus.** Shell oblong-ovate, rather thin, scarcely umbilicated, whorls six to seven in number, rather ventricose, transversely very minutely impressly striated, columella reflected, lip somewhat expanded, thin, sharp; whitish, faintly tinged with rose, and sometimes marked round the upper part with brownish longitudinal streaks.

*Hab.* Venezuela.

A delicately colored species, approximating closely in form and style of painting to the *B. oreades.*

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Species 354. (Mus. Cuming.)

**Bulimus ferratius.** Bul. testa acuminato-oblonga, vix umbilicatā, anfractibus sex, transversim sub lente minutissimum impresso-structis, columellā reflexa, labro expanso, simplici, vix reflexo; virecente-alba, maculis paucis olivaceo-fusceis quadratis prope apicem notatis, fasciā conspicuā circa umbilicum.

**The unemployed Bulimus.** Shell acuminately oblong, scarcely umbilicated, whorls six in number, transversely very minutely impressly striated beneath the lens, columella reflected, lip expanded, simple, slightly reflected; greenish-white, marked near the apex with a few square olive-brown spots, and a conspicuous band round the umbilicus.

*Hab.* Venezuela.

Another interesting new species from the same locality as the preceding.

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Species 355. (Mus. Cuming.)

**Bulimus perdix.** Bul. testa ovato-oblonga, solidissimā, umbilicatā, anfractibus quinque ad sex, longitudinaliter creberrimā elevato-structi, gibbosissimā, columellā obscure plicata, labro reflexo; albidā, flavissimā maculis punctisque carneo-agricantibus variegata, columellā superno-purpurascente.

**The partridge Bulimus.** Shell ovately oblong, rather solid, umbilicated, whorls five to six in number, longitudinally very closely elevated, rather gibbus, columella obscurely plaited, lip reflected; whitish, variegated with blue-black flames blotches and dots, columella purplish at the upper part.


*Hab.* New Granada; Funck.

This and the three following having been described as separate species, and, not to differ in a case which may be regarded a matter of opinion, they are here published as such; I cannot however forbear expressing my conviction that notwithstanding their apparent differences of form and detail of growth, they are but so many modified conditions of the same species. In the state described as *B. perdix,* the longitudinal striae are extremely regular, the aperture is rounded, and the plait of the columella is only obscurely developed at the upper part.

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Species 356. (Mus. Cuming.)

**Bulimus euryomphalus.** Bul. testa fusiformi-oblonga, solidissimā, umbilicatā, basi angulato-compressa, anfractibus quinque ad sex, creberrimā longitudinaliter structi, columellā plicatā, aperturā trigono-contracta, labro reflexo; cornescente-alba, punctis maculatis fulguratis nigricantibus variegatā, columellā intensē purpurād.

**The broad-plaited Bulimus.** Shell fusiformly oblong, rather solid, umbilicated, angularly compressed at the base, whorls five to six in number, very closely longitudinally striated, columella plaited, aperture triangularly contracted, lip reflected; bluish-white, clouded with black zigzag blotches and dots, columella deep purple.

*Hab.* Venezuela; Dyson.

Chiefly distinguished by its clouded zigzag style of painting.

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Species 357. (Mus. Cuming.)

**Bulimus glaber.** Bul. testa subfusiformi-ovata, umbilicatā, crassā, solidā, basi subcontractā, anfractibus quinque ad sex, longitudinaliter corrugato-structi, columellā plicatā, labro incrassato, reflexo; albidā, striis griseorubentibus nebulatā et variegatā.

December, 1848.
BULIMUS.—PLATE LIV.

The smooth Bulimus. Shell somewhat fusiformly ovate, umbilicated, thick, solid, slightly contracted at the base, whorls five to six in number, longitudinally striated in a wrinkled manner, columella plaited, lip thickened, reflected; whitish, clouded and variegated with greyish-red streaks.

GMELIN, Syst. Nat. p. 3436.
Cochlogena auris-caprinus, De Féruccze.
Anricula Sileni, Lamarck.
Bulimus agotis, Meinke.

Hab. West Indies.

This has a somewhat closer affinity with the two following species than with the two which precede.

Species 358. (Mus. Cuming.)

Bulimus distortus. Bul. testa fusiformi-oblonga, crassa, solida, basi angulato-compressa, anfractibus quinque ad sex, longitudinaliter corrugato-striatis, ad suturas interdum crenulatis, columella fortilis plicata, apertura trigono-contracta, labro incresato, reflexa; albida, cincreo-rubente variegata et partim striata, columellar intens purpurea.

The distorted Bulimus. Shell fusiformly oblong, thick, solid, angularly compressed at the base, whorls five to six in number, longitudinally striated in a wrinkled manner, sometimes crenulated at the sutures, columella strongly plaited, aperture triangularly contracted, lip thickened, reflected; whitish, variegated and partially streaked with ash-red, columella deep purple.

BRUGUIERE, Enc. Méth. vol. i. p. 344.
Anric Mido distortus, Cennitz.
Cochlogena distorta, De Féruccze.
Piekocheilus distortus, Beck.

Hab. Venezuela.

This is the type of the group, Sp. 355 to 358, which, as before mentioned, I am inclined to think are but one species in different states.

Species 359. (Mus. Cuming.)

Bulimus himatus. Bul. testa cylindraceo-elongata, tenui, subconica, latè umbilicata, anfractibus sex, levibus, nitudiscula, columella expansa, apertura suboblicuari et producta; fuscusexitce.

The clefted Bulimus. Shell cylindrically elongated, thin, somewhat horned, broadly umbilicated, whorls six in number, smooth, rather shining, columella expanded, aperture nearly orbicular and produced; light brown.

Hab. ——?

Mainly distinguished by the rounded Papa-like growth of the aperture.

Species 360. (Mus. Cuming.)

Bulimus culmineus, Bul. testa oblongo-ovata, crassuscula, via umbilicata, anfractibus septem, minutissimè plano-granulatis, longitudinaliter radè elevato-striatis, columellâ reflexâ, subconcentrâ, labro simplici, subexpanso; albida, apiceus versus cincreo-fuscoescens tinctâ, lineis rufis hic illae notatâ.

The lofty-dwelling Bulimus. Shell oblong-ovate, rather thick, scarcely umbilicated, whorls seven in number, very minutely flatly granulated, longitudinally rudely elevated striated, columella reflected, somewhat twisted, lip simple, slightly expanded; whitish, stained with pale brownish ash-colour towards the apex, and marked here and there with longitudinal red lines.

For authority, locality, and remarks on this species see Pl. XVII. Sp. 93, in which place a shell is represented agreeing better with the B. lithoicus of D'Orbigny.

Species 361. (Mus. Dennison.)

Bulimus Schiedeanus. Bul. testa ovata, crassa, sub-angulata umbilicata, anfractibus sex, convexis, longitudinaliter rugoso-striatis, columellâ reflexâ, incrassata, labro incrassato, non reflexo; calcareo-albâ, apertura fume creceo-aurantiâ.

Schiéde's Bulimus. Shell ovate, rather largely umbilicated, thick, whorls six in number, convex, longitudinally roughly striated, columella reflected, thickened, lip thickened, not reflected; chalk-white, interior of the aperture tinged with saffron-orange.

Hab. Mexico.

A very solid opaque chalk-white shell, tinged with saffron-orange in the interior.
BULIMUS.

PLATE LV.

Species 362. (Mus. Demison.)

Bulimus velutinus. Bul. testá conico-ovatá, inflatá umbilicatá, anfractibus sex, ultimó maximo, striis obtusis longitudinalibus et transversis crebríssimá decussatis; columellá peculiarissí reflexá, labro tenui, paululum réflexá; intus extusque vixitá bruméced.

The velvety Bulimus. Shell conically ovate, inflated, umbilicated, whors six in number, the last very large, very closely decussated with obtuse longitudinal and transverse striæ; columella peculiarly reflected, lip thin, a little reflected; bright brown within and without.

Pfeiffer, Symbola, vol. i. p. 42.

Bulimus striigosus, Dufo.

Hab. Seychelle Islands.

A very delicately formed, largely inflated shell of a rich brown-colour, the surface being decussated in a manner that gives it a soft velvety appearance.

Species 363. (Mus. Demison.)


Jonas’ Bulimus. Shell somewhat fusiformy oblong, scarcely umbilicated, whors six in number, longitudinally roughly plicated, columella reflected, lip simple; diaphanous, folds opake cream-colour, columella light purple.

Pfeiffer, Philippi, Abild. Bul. pl. 5. f. 4.

Hab. Vera Cruz, Central America.

A very delicate and graceful shell, having the longitudinal folds of an opake cream-colour, whilst the interstices are transparent, and the columella tinged with purple.

Species 364. (Mus. Cuming.)

Bulimus Andicola. Bul. testá pyramidalis-oblong, vis umbilicatá, anfractibus septem, levibus, columellá reflexá, aperturá parviscata, labro simplici, acuto; albidá, striis perpunctis rufo-fuscoscentibus hie illic longitudinaliter pictá.

The Andes-inhabiting Bulimus. Shell pyramidal oblong, slightly umbilicated, whors seven in number, smooth, columella reflected, aperture rather small, lip simple, acute; white, longitudinally painted here and there with a very few reddish-brown streaks.


Hab. Columbia Andes.

Of somewhat doubtful character and apparently of immature growth.

Species 365. (Mus. Cuming.)

Bulimus Pallidior. Bul. testá acuminato-ovatá, subventricosa, ampliíter umbilicatá, anfractibus septem, levibus, vel obscurá striatís, columellá labroque expanás; albá, intus aurantio tintá.

The paler Bulimus. Shell acuminately ovate, rather ventricose, largely umbilicated, whors seven in number, smooth, or obscurely striated, lip and columella expanded; white, tinged in the interior with orange.

Sowerby, Conch. Illus. Bulimus, Fig. 39 and 44.

Hab. ——?

Very like B. proteus in general aspect, but destitute of granules or any similar sculpture.

Species 366. (Fig. a and b, Mus. Cuming.)

Bulimus Vincentinus. Bul. testá fusiformi-ovatá, tenue, subpellucide, anfractibus sex, levibus, nitentibus, sub lente transversís minutiissimís inciso-striatis, columellá plano-reflexá, aperturá oblongá, labro subexpanso; lutescenté-albá, interdum costanque fuscoatá.

The St. Vincent Bulimus. Shell fusiformy ovate, rather thin, somewhat transparent, whors six in number, smooth, shining, transversely very minutely striated in an engraved manner under the lens, columella flatly reflected, aperture oblong, lip somewhat expanded; yellowish white, sometimes banded with chestnut.


Hab. Venezuela; Linden. Island of St. Vincent?

I fear the locality assigned to this species in the name given to it by Dr. Pfeiffer, is somewhat doubtful.

Species 367. (Mus. Cuming.)

Bulimus Interstinctus. Bul. testá cylindraceo-pyramidali, non umbilicatá, anfractibus septem, subrotundatis, oblínquè rotundatí, infra extusque peculiaribus crenálatís, columellá subconvolváta, aperturá parce, labro tenui, simplici; pellicido-albá, striis perpunctis fusce hie illic oblínquè pictá, epidermise tenui cornéa indentá, columellá rowá.

December, 1848.
The divided Bulimus. Shell cylindrically pyramidal, not umbilicated, whorls seven in number, somewhat rounded, obliquely rudely striated, peculiarly crenulated beneath the sutures, columnella slightly twisted, aperture small, lip thin, simple; transparent white, obliquely painted here and there with a very few brown stripes, covered with a thin horny epidermis, columella pink.

Eadem var.

Bulimus rubicundus, Gould.

Hab. Cape Palmas, West Africa.

An interesting species distinguished by a peculiar beaded row of fine crenulations beneath the sutures, and a delicate pink columella.

Species 368. (Mus. Cuming.)


The unimportant Bulimus. Shell somewhat acuminately oblong, rather thin, slightly umbilicated, whorls six in number, roughly striated and obscurely rudely flatly granulated, columella broadly reflected, lip thin and simple; fawn-white, irregularly painted with a few white-mottled brown streaks.

Hab. — — ?

A delicately painted species not possessing any remarkable character, but certainly distinct from any other that I am acquainted with.

Species 369. (Mus. Cuming.)

Bulimus manupictus. Bul. testâ acuminato-ovatâ, basi subattenuatâ, umbilicatâ, anfractibus sex, laevibus vel obscurè striatis, columnellâ reflexâ, labro simplici; albâcante, purpureo-fusco conspicue longitudinaliter virgatâ.

The hand-painted Bulimus. Shell acuminately ovate, somewhat attenuated at the base, whorls six in number, smooth or obscurely striated, columnella reflected, conspicuously longitudinally striped with purple-brown.

Hab. Andes of Columbia.

Of a somewhat diamond-shaped form.

Species 379. (Mus. Cuming.)

Bulimus nigrofasciatus. Bul. testâ ovatâ, subventricosa, viz. umbilicatâ, anfractibus sex, subtiliter rudâ striatis, columnellâ reflexâ, labro tenui, acuto; pellucido-albâ, fasciis latis fusco-nigricantibus conspicue pictâ.

The black-banded Bulimus. Shell ovate, somewhat ventricose, slightly umbilicated, whorls six in number, finely rudely striated, columnella reflected, lip thin, sharp; transparent white, conspicuously painted with broad brownish-black bands.

Pfeiffer, MSS. Mus. Cuming.

Hab. Valley of the Magdalina, New Granada.

Distinguished by its broad dark bands.


**BULIMUS.**

**Plate LVI.**

Species 370. (Mus. Cuming.)

**BULIMUS MERIDIONALIS.** _Bul. testá ovato-conicá, umbilicata, tenui, diaophanou, anfracbions septem, obliquus minutè ruht striatis, columellá peculiariter latè reflexid, labro tenui, acuto; pellucido-alba, soud unicis fuscanscente medio cinculala._

**THE MERIDIONAL BULIMUS.** Shell ovately conical, umbilicated, thin, diaphanous, whorls seven in number, obliquely minutely rudely striated, columella peculiarly broadly reflected, lip thin, sharp; transparent white, encircled round the middle with a pale brown zone.


_Hab._ South Africa.

The general aspect of this shell reminds one somewhat of an immature specimen of the _Achatina alabaster._

Species 371. (Mus. Cuming.)

**BULIMUS LIMONICUS.** _Bul. testá elongata, pyramidali, subumbilicata, anfracbions septem, subrotundatis, concentréd subrotundè rugoso-striatis, columella reflexa, aperture parviscuelæ, labro simplex; reflexante-corned, sicula obliquè longitudinaliter plus minusve profuso notata._

**THE MEADOW BULIMUS.** Shell elongated, pyramidal, slightly umbilicated, whorls seven in number, somewhat rounded, concentrically rather rudely roughly striated, columella reflected, aperture rather small, lip simple; reddish horny, more or less profusely marked with whitish longitudinal lines.


_Hab._ Bolivia; Bridges.

I have every reason to believe this to be the _B. limonicus_ of _D’Orbigny._

Species 372. (Mus. Cuming.)

**BULIMUS CINERELIS.** _Bul. testá elongato-ovatá, umbilicata, anfracbions septem ad octo, subrotundatis, levibus ad concentriè striatis, cimillá reflexá, aperture paré, labro simplici; pelludo cinerel; hic illic obliquè strigata, apicem versus pellucidocorned._

**THE ASH-COLOURED BULIMUS.** Shell elongately ovate, umbilicated, whorls seven to eight in number, some-

what rounded, smooth or concentrically striated, columella reflected, aperture small, lip simple; pale ash-coloured, obliquely streaked here and there, transparent horny towards the apex.

_Hab._ Bolivia.

From a locality well examined by M. Alcide D’Orbigny, but not agreeing with any of the species described in his *Voyage._

Species 373. (Mus. Cuming.)

**BULIMUS ELECTRUM.** _Bul. testá oblongo-ovatá, tenui, pellucido, subvertá, vis umbilicát, anfracbions sex, subreflexis, transversam minutè inciso-striatis, columella reflexa, labro simplici, expansa; pellucidocorned._

**THE AMBER BULIMUS.** Shell oblong-ovate, thin, transparent, somewhat glossy, scarcely umbilicated, whorls six in number, slightly inflated, transversely minutely engraved with strie, columella reflected, lip simple, expanded; transparent yellow.

_Hab._ Venezuela.

A delicate transparent shell of somewhat glossy texture, distinguished by its bright amber colour.

Species 374. (Mus. Cuming.)

**BULIMUS TUNEFACTUS.** _Bul. testá conico-ovatá, latè inflatá, peculiarièr umbilicata, anfracbions quinque ad sex, ultimo maximo, tumida, obliquè plicato-striatis, columella peculiariter reflexa, labro tenui; pellucidocorned, epidermiae fuscanscente hydrophanæ, cingulum angustum punctum perpendiculamente, indentat._

**THE PUFFED BULIMUS.** Shell conically ovate, broadly inflated, peculiarly umbilicated, whorls five to six in number, the last very large and swollen, obliquely plicately striated, columella peculiarly reflected, lip thin; transparent horny, covered with a light brown hydrophanous epidermis, leaving a narrow belt and a few small spots.

_Hab._ Great Bassam, West Africa.

A light horny shell of very peculiar form, distinguished by a second hydrophanous epidermis.

December, 1848.
Species 375. (Mus. Dennison.)

**Bulimus cantatus.** *Bul. testa subuniforme-oblonga, basi subobliquè producta, umbilicatâ, anfractibus sex ad septem, levibus vel subobscure ruder striatis, columnellâ medio incurvalâ, aperture basi sinuata, labro expanso, subreflexo; pallide coriacea-allocated, maculis parce subquadraatis distantis indistinctâ notata, columnellà labroque intus roseo-purpureis.*

The charmed Bulimus. Shell somewhat fusiformy oblong, somewhat obliquely produced at the base, umbilicated, whors six to seven in number, smooth or rather obscurely ruderly striated, columnella curved inwards in the middle, aperture situated at the base, lip expanded, partially reflected; light fawn-white, indistinctly marked with small squarish distant spots, lip and columnella coloured interiorly with rose-purple.

*Hab.——?*

A very characteristic new species from the collection of J. Dennison Esq.

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Fig. 376. (Mus. Cuming.)

**Bulimus oblitus.** *Bul. testâ cylindraceo-elongatâ, umbilicatâ, anfractibus novens, ad suturas peculiariter crenulatis, deinde obscure obliquè corrugato-striatis, columnellâ latè reflexâ, umbilicatâ, aperture purpurea, labro paulum expanso; pallide albâ, olivaceo-luteo tincta.*

The forgotten Bulimus. Shell cylindrically elongated, umbilicated, whors nine in number, peculiarly crenulated beneath the sutures, then obscurely obliquely striated in a wrinkled manner, columnella broadly reflected, with a single plait, aperture small, lip a little expanded; transparent white, tinged with olive-yellow.

*Hab. Brazil.*

Allied in form to the *B. Janeirensis*, but distinguished amongst other characters by the finely beaded crenulations beneath the sutures.

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Species 377. (Mus. Cuming.)

**Bulimus Pariensis.** *Bul. testâ pyramidali-oblonga tenui, diaephand, via umbilicatâ, anfractibus sex, levibus, columnellâ reflexâ, labro simplex, acuto; corneo-albida, lines striisque fuscia longitudinatâ picta.*

**Paiz Bulimus.** Shell pyramidally oblong, thin, diaphanous, scarcely umbilicated, whors six in number, smooth, columnella reflected, lip simple, sharp; horny white, longitudinally painted with brown lines and streaks.


*Hab. Bolivia; D'Orbigny. Guatemala; Sallé.*

A delicate transparent shell, well characterized by its linear painting.

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Species 378. (Mus. Cuming.)

**Bulimus Californicus.** *Bul. testâ subacuminato-ovata, tenuiculatâ, via umbilicatâ, anfractibus sex, levibus, columnellâ reflexâ, labro simplex; lactic, zonele interruptis transversis coruleo-viridicantibus crenulatâ.*

The Californian Bulimus. Shell somewhat acuminate ovate, rather thin, scarcely umbilicated, whors six in number, smooth, columnella reflected, lip simple; cream colour, encircled with interrupted transverse blue-black zones.

*Hab. California; Hartweg.*

There is little novelty in the character or general aspect of this species, but it is certainly distinct.
BULIMUS.

PLATE LVII.

Species 380. (Mus. Cuming.)

BULIMUS TRIGINTUS. Bul. testa acuminato-ovata, umbilicata, anfractibus septem, levibus vel obscuris radicibus striatis, aperturâ semel, labro simplici; cervulo-albido, nuculo-fuscescente longitudinâlis irisata et striata, zona tribus nigricantibus basi conspicua pictâ.

The three-girt Bulimus. Shell acuminately ovate, umbilicated, whors seven in number, obscurely radially striated, aperture small, lip simple; bluish-white, longitudinally lined and streaked with burnt-brown, painted in a conspicuous manner at the base with three blackish zones.

Hab. — ?

The three dark zones which encircle the lower portion of the whors are concealed in all but the last.

Species 381. (Mus. Cuming.)

BULIMUS EBRUSCENS. Bul. testâ pyramidalis-oblongâ, ovâ umbilicata, anfractibus sex, levibus, transversâ sub lanceâ umbilicâ incisio-striatis, coluernella tenuer reflexâ, labro simplici, acuto; roseo-luteentâ, apice rosaceo.

The Blushing Bulimus. Shell pyramidally oblong, scarcely umbilicated, whors six in number, smooth, transversely minutely striated in an engraved manner beneath the keel, columella finely reflected, lip simple, sharp; pinkish yellow, apex pink.


Hab. — ?

The name ebruscens has been used by Swainson in reference to the B. goniosoma, associated with Goniosoma as a generic word, but never with Bulimus.

Species 382. (Mus. Cuming.)

BULIMUS CHRYSALES. Bul. testâ ovato-turrita, subcilindraceâ, sub-umbilicata, anfractibus rotundatis, oblique rugoso-striatis, columellâ latâ reflexâ, aperturâ fert rotondâ, labro tenui; intemâ purpureo-fuscâ.

The Chrysalis Bulimus. Shell ovately turreted, somewhat cylindrical, slightly umbilicated, whors rounded, obliquely finely roughly striated, columella broadly reflected, aperture nearly round, lip thin; deep purple-brown.

Hab. Guadaloupe.

Of a cylindrically turreted form and deep purplish brown hue.

Species 383. (Mus. Cuming.)

BULIMUS SOWERBYII. Bul. testâ ovato-conica, tenui, sub-inflata, umbilicata, anfractibus sex, levibus, infra medium subattenuatis, columellâ latâ reflexâ, labro tenui, simplici; albidâ, striis fastcis obliquis pictâ, striis alis fastcis rectis, medio terminantibus decussatâ, zona nigricans nucie prope basin.

Sowerby's Bulimus. Shell ovately conical, thin, somewhat inflated, umbilicated, whors six in number, smooth, slightly attenuated below the middle, columella broadly reflected, lip thin, simple; whitish, painted with oblique brown streaks, crossed with other straight brown streaks terminating in the middle, near the base in a single blackish zone.


Hab. Andes of Columbia.

The double painting of straight lines crossing the oblique on the upper half of the whors is a very peculiar feature in this shell.

Species 384. (Mus. Cuming.)

BULIMUS STUDERI. Bul. testâ oblongâ, subcilindraceâ, umbilicata, anfractibus sex, levibus, coluernella reflexâ, labro simplici, paulum expansa; flavo-olivaceo, fastcis duobus roseis cinquitâ.

Studer's Bulimus. Shell oblong, somewhat cylindrical, umbilicated, whors six in number, smooth, columella reflected, lip simple, a little expanded; yellowish-white, encircled with two pink bands.


Hab. Merida, New Granada.

The two pink bands which encircle the whors of this shell upon a shining white ground, are very characteristic.

Species 385. (Mus. Cuming.)

BULIMUS PRIMULA. Bul. testâ oblongâ, subcilindraceâ, umbilicata, anfractibus sex, levibus vel obliquâ subtillis striatis, coluernellâ latâ reflexâ, labro simplici; albidâ, inter his silt vividi tinctâ, zonis latis pallide roseis circumactâ, apice purpureo-fuscâ.

December, 1848.
The Primrose Bulimus. Shell oblong, somewhat cylindrical, umbilicated, whorls six in number, smooth or obliquely finely striated, columella broadly reflected, lip simple; whitish, here and there brightly coloured with yellow, encircled with broad pink zones, apex purple-brown.

Hab. Merida, New Granada.

A prettily painted species from the same locality as the preceding, differing slightly, but importantly, in form. The whorls are somewhat more ventricose, and the reflected portion of the columella more oppressed.

Species 386. (Mus. Cuming.)

Bulimus Meridanus. Bul. testa fusiformi-oblonga, subumbilicata, spirá acuminata, anfractibus septem, levis, nitentibus, sub lente transversim impresso-striatis, columella reflexa, labro simplici; albidá, luteo et roseo eximie tinté, fasciis pallidi purpureis interruptis cingulát.

The Merida Bulimus. Shell fusiformly oblong, slightly umbilicated, spire acuminated, whorls seven in number, smooth, shining, engraved beneath the lens with minute transverse striae; whitish, delicately tinged with rose and yellow, and encircled with interrupted pale purple bands.


Hab. Merida, New Granada.

Similarly delicately painted to the last two species from the same locality, but of very different form.

Species 387. (Fig. a and b, Mus. Cuming.)

Bulimus Liquabilis. Bul. testà ovato-conica, ventricosa, umbilicata, anfractibus sex ad septem, subrotundatis, levis, vel minus inimè striatís, columella late reflexa, labro teneri, paulius expanso; pellucido-cernu, striis longitudinalibus opacis notatís.

The Dissolvable Bulimus. Shell ovately conical, ventricose, umbilicated, whorls six to seven in number, somewhat rounded, smooth or very minutely striated, columella broadly reflected, lip thin, a little expanded; transparent horny, marked with opaque streaks.

Hab. Texas; Sallé.

An inflated ovate shell, quite transparent except where ornamented with longitudinal opaque streaks.

Species 388. (Mus. Cuming.)

Bulimus Connivens. Bul. testà pyramidali-conica, solidoscula, ampliter umbilicata, anfractibus septem, oblique creberrimè plicato-striatis, columella late expansa, aperture rotundata, labro expanso, paulius reflexa; opaco-albá, nitente, aperture fave aurantia.

The Dissembling Bulimus. Shell pyramidal conically, rather solid, largely umbilicated, whorls seven in number, obliquely closely plicately striated, columella broadly expanded, aperture rounded, lip expanded, a little reflected; opaque white, shining, interior of the aperture saffron-orange.

Hab. Senegal.

This shell obtains a pyramidal form from the last whorl being widely convoluted and leaving a large umbilicus.
BULIMUS.

PLATE LVIII.

Species 328. (Mus. Cuming.)

**Bulimus Mozambicensis.** Bul. testa ovato-conica, subumbilicata, anfractibus sex ad septem, labro simplici; adla, anfractum parte superiori lineis fasciis brevibus oblique plicato, medio lineis nigra cingulata, parte inferiori immaculata.

The Mozambique Bulimus. Shell ovately conic, somewhat turreted, slightly umbilicated, whorls six to seven in number, smooth, columella broadly reflected, aperture rather small, lip simple; white, upper part of the whorls painted with short oblique brown lines, encircled round the middle with a black line, lower part unspotted.

Pfeiffer, Syntoma, vol. iii. p. 85.

Hab. Mozambique.

The painting of this species affords a character in being marked only above the line which encircles the whorls at the sutures.

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Species 389. (Mus. Cuming.)

**Bulimus Ziegleii.** Bul. testa oblongo-conica, semi-pellucidata, vix umbilicata, anfractibus sex, obsecundis semi-decussatis striatis, labro simplici; luteo-albiid, septa fasciae castaneae maculo-interrotundata.

Zieglei's Bulimus. Shell oblong conical, semitransparent, slightly umbilicated, whorls six in number, obscurely very finely decussately striated, lip simple; yellowish white, frequently encircled with chesnut bands broken up into square spots.


Hab. Central America.

The spots arising out of the interrupted character of the bands are disposed obliquely.

Species 390. (Fig. 390 a, b, c, Mus. Dyson.)

**Bulimus Curianensis.** Bul. testa elongato-oblungæ, subcylindraceæ, basi obtuso angulata et ampliter umbilicata, anfractibus septem ad octo, plano-convexa, levis vel minutissimis striatis, columellæ latæ reflexæ, aperturæ latæ expansæ, non reflexæ, basi attenuata, subcuneiculata; griseo-albiid, fasciis cerneleo-nigratis interdum cingulatis, umbilicis interdum intestinæ castaneæ, labro intus roseo.

**The Curiana Bulimus.** Shell elongately oblong, somewhat cylindrical, obtusely angled at the base and largely umbilicated, whorls seven to eight in number, flatly convex, smooth or very minutely striated, columella broadly reflected, aperture widely expanded, not reflected, attenuated and slightly channelled at the base; greyish-white, sometimes encircled with blue-black bands, umbilics sometimes very dark chesnut, lip pink within.

Hab. Curiana, Venezuela (on the leaves of Palms); Dyson.

One of the most interesting of the many beautiful species of shells collected by Mr. Dyson during his recent expedition to Venezuela. It is very closely allied to *B. Knorrí*, but may be readily distinguished by its angular growth at the base, and large umbilics.

Species 391. (Mus. Cuming.)

**Bulimus Humboldthii.** Bul. oblongo-conica, subcentricus, umbilicata, suturis impressis, anfractibus septem, subrotundatis, levis, politis, columellæ latæ reflexæ, labro simplici; porcellano-albiid, fasciis castaneis truncatis, peculiariter tenui interrotundatis, inferne cingulatis.

Humboldt's Bulimus. Shell oblong-conic, somewhat ventricose, umbilicated, sutures impressed, whorls seven in number, rather rounded, smooth, polished, columella broadly reflected, lip simple; porcelain white, encircled round the lower part with three peculiarly finely interrupted chesnut bands.


Hab. Mexico; Humboldt.

This shell, an authentic specimen of Humboldt's species, received by Mr. Cuming from Paris, is essentially distinct from Lamarck's *B. Mexicanus* (Pl. XL. Sp. 244), though resembling it in general aspect.

Species 392. (Mus. Dyson.)

**Bulimus erectus.** Bul. testa pyramidalis-oblongæ, umbilicata, spiræ acuminatæ, suturis impressis, anfractibus subrotundatissimis, longitudinaliter radii striatis; columellæ latæ reflexæ, labro tenui, simplici; pellucido-cornus.

The erect Bulimus. Shell pyramidally oblong, umbilicated, spire acuminated with the sutures impressed.

January, 1849.
BULIMUS.—Plate LVIII.

whorls somewhat rounded, longitudinally rudely striated, columella broadly reflected, lip thin, simple; transparent horny.

*Hab.* Curiana, Venezuela (on *Cacti*); Dyson.

Of a uniform horn colour with a peculiarly erect spire.

Species 393. (Mus. Dyson.)

**Bulimus Cacticolus.** Bul. testá acuminato-oblongá, sub-ventricosá, tenuissimá, umbilicatá, anfractibus septem, subrotundis, obscure decussatim striatis, columellá reflexá, labro tenui, simplici; pellucido-corneá.

The *Cactus*-inhabiting *Bulimus*. Shell acuminately oblong, somewhat ventricose, very thin, umbilicated, whorls seven in number, somewhat rounded, obscurely decussately striated, columella reflected, lip thin, simple; transparent horny.

*Hab.* Curiana, Venezuela (on *Cacti*); Dyson.

Very similar to the last in colour and substance, but sufficiently distinguished in form.

Species 394. (Mus. Cuming.)

**Bulimus opalinus.** Bul. testá pyramidáli, basi angulatá et subplanatá, vix umbilicatá, anfractibus octo, plano-convéxá, minuítissimá decussatim striátis, columellá reflexá, labro paululum reflexó; opalino-albá, immaculátá.

The *opal Bulimus*. Shell pyramidal, angulated and slightly flattened at the base, scarcely umbilicated, whorls eight in number, flatly convex, very minutely decussately striated, columella reflected, lip a little reflected; opal white, unspotted.

*Sowerby,* Beechey's Voyage, p. 144. pl. 138. f. 8.

*Hab.* Brazil.

Distinguished by its acuminated Trochiform growth and pure opal white substance.
Species 395. (Mus. Cuming.)

**BULIMUS RUFO-NIGER.** Bul. testá conico-turrítæ, umbilicatæ, anfractibus septim, rotundatis, obliquè irregulariter striatæ, aperturâ subrotundâ, labro simplici; nigrice castanea.

**The red-black Bulimus.** Shell conically turreted, umbilicated, whorls seven in number, rounded, obliquely irregularly striated, aperture nearly round, lip simple; blackish chestnut.

Férussac (?)

_Hab._ Madagascar.

Of a peculiar dark chestnut reddish hue.

Species 396. (Mus. Cuming.)

**BULIMUS CASTRENsis.** Bul. testá conico-oblongâ, umbilicatâ, anfractibus sex, oblongâ, columnellâ reflextâ, labro simplici; albâ, striis carinâs-equirâs albi-decinctuâtis, maculis oblongis opaco-albis peculiariter notâtâ.

**The camp-marked Bulimus.** Shell conically oblong, umbilicated, whorls seven in number, smooth, columnella reflected, lip simple; whitish, peculiarly marked with bluish green streaks denticulated with white, and opake white oblong spots.


_Hab._ —

It is only by reference to the figure that it is possible to form an adequate idea of the singular painting of this species.

Species 397. (Mus. Cuming.)

**BULIMUS TELLINEATUS.** Bul. testá cylindraceo-oblongâ, impenetrâtâ, anfractibus sex, longitudinaliter subtiliter plicato-rugâtis, columnellâ angulâtâ, labro simplici; griseo-albântâ, striis transversâs fascis longitudinalibus plus minusve densâ ornâtâ, apertura fauce castaneo-fusco.

**The trilined Bulimus.** Shell cylindrically oblong, not umbilicated, whorls six in number, longitudinally finely plicately wrinkled, columnella narrow, lip simple; greyish white, more or less thickly ornamented with fine brown longitudinal streaks, interior of the aperture chestnut-brown.


_Hab._ Port George, New Holland.

The painting of this species is probably variable in its character, as the specific name given to it by M. Quoy does not strictly apply to the specimen here figured.

Species 398. (Mus. Cuming.)

**BULIMUS NITELINUS.** Bul. testâ oblongo-ovâtâ, ad basin subattenuâtâ, vis umbilicatâ, anfractibus quinque ad sex, exustâs, medio tenuissimis, columnellâ paululum reflextâ, labro simplici; albâ, roso-aurantiâ tinctâ, fasciis maculâisque nigricantibus, remotâe interruptis, ornâtâ, aperturâ rosea.

**The gold-tinged Bulimus.** Shell oblong-ovate, slightly attenuated at the base, scarcely umbilicated, whorls five to six in number, smooth, rather swollen in the middle, columnella a little reflected, lip simple; whitish, tinged with rose-orange, ornamented with remotely interrupted spots and bands, aperture pink.

_Hab._ Mexico.

Of a warm rose-orange tint, peculiarly marked, though not of very novel aspect.

Species 399. (Mus. Cuming.)

**BULIMUS DETRITUS.** Bul. testâ cylindraceo-oblongâ, solidissimâ, vis umbilicatâ, anfractibus septem, convexissimâ, ad suturâs subtiliter crenulâtâ, columnellâ latâ reflextâ, aperturâ parvisissimâ, labro subespansâ; sordîs albâ, sepì cinerascens longitudinaliter striâtâ.

**The worn Bulimus.** Shell cylindrically oblong, rather solid, slightly umbilicated, whorls seven in number, rather convex, finely crenulated at the sutures, columnella broadly reflected, aperture rather small, lip somewhat expanded; dead white, frequently longitudinally streaked with pale ash.


_Helix sepium_, Gmelin.

_Cochlœogena radiata_, Férussac.

_Cochlœogena dealbata_, Férussac.

_Bulimus melanorhömus_, Jan.

_Bulimus abbreviatus_, Jan.

_Bulimus luteus_, Ziegler.

_Hab._ Central Europe.

January, 1849.
This well-known species is very generally distributed throughout Germany and other parts of Central Europe.

Species 400. (Mus. Cuming.)

BULIMUS HONDURASANUS. Bul. testâ subacuminato-oblungâ, tenuicâta, umbilicâta, anfractûs sex, convexuscentis, levisius, colomella late reflexâ, labro simplici; pellucido-flavescens, roseo-fusco trifasciâta.

The Honduras Bulimus. Shell somewhat acuminately oblong, rather thin, umbilicated, whorls six in number, rather convex, smooth, columella broadly reflected, lip simple; transparent yellowish-white, encircled by three rose-brown bands.

Hab. Honduras; Dyson.

A very delicate transparent rose-tinged shell.

Species 401. (Mus. Cuming.)

BULIMUS SORDIDUS. Bul. testâ conico-ovatâ, tenui, sub-ampullâter umbilicâta, anfractûs sex ad septum, rotundâtis, crebrissimâs fortiter elevato-strictis, colomella late expansâ, vix reflexâ, labro tenui, simplici; sordide fusce.

The sordid Bulimus. Shell conically ovate, thin, rather largely umbilicated, whorls six to seven in number, rounded, very closely strongly elevated striated, columella broadly expanded, scarcely reflected, lip thin, simple; dull brown.

Helix sordida, Lesson, Voyage de la Coquille, p. 315. pl. 13. f. 3.
Hab. Environs of Lima.

It has been supposed that Mr. Broderip’s Bulimus Proteus is the B. sordidus of Lesson; but Dr. Pfeiffer has shown it to be a distinct species, as the authentic specimen here figured, obtained by Mr. Cuming from those collected by M. Lesson, sufficiently verifies. The name sordidus applied to Sp. 100, must therefore be cancelled in favour of Mr. Broderip’s very significant title of Proteus.

Species 402. (Mus. Cuming.)

BULIMUS CONSTRUCTUS. Bul. testâ subgloboso-ovatâ, solidiusculâ, profundâ umbilicâta, anfractûs profusissimâ, spirâ subturpis impressûs, anfractûs septem, convexus, tenissimâ strictis, colomella late expansâ, apertura parvisculâ, sub-reflexâ; opaco-albâ.

The constricted Bulimus. Shell somewhat cylindrically ovate, rather solid, deeply umbilicated, sutures of the spire impressed, whorls seven in number, convex, very finely striated, columella broadly expanded, aperture rather small, with the lip a little reflected; opaque white.

PFEIFFER, Symbolae. vol. i. p. 43.
Bulimus Angusturatus, Gruner.
Hab. Angostura.

Dr. Pfeiffer describes this species as having a horned epidermis.

Species 403. (Mus. Cuming.)

BULIMUS SPRATTI. Bul. testâ subgloboso-ovatâ, solidiusculâ, turgescenti, umbilicâta, anfractûs sex, longitudinaliter rugoso-pliacatis, colomella late expansa, labro subreflexo; albida, epidermide tenui cornæ olivaceâ partim indutâ.

Spratt’s Bulimus. Shell somewhat globose-ovate, rather solid, swollen, umbilicated, whorls six in number, longitudinally rather roughly plicated, columella broadly expanded, lip slightly reflected; whitish, partially covered with a thin horny olive epidermis.

PFEIFFER, in Phil. Abhild., Bulimus, pl. 4. f. 6.
Hab. Asia Minor, Pisdia; Forbes. Lycia; Spratt.

A turgid delicately plicated species of very distinct form.
BULIMUS.

PLATE LX.

Species 404. (Mus. Cuming.)

BULIMUS CANTORII. Bul. testá oblongo-cylindraceá, solidaeulce, compressá umbilicatá, anfractibus octo, per-abstracte tenisimá striatá, columnellá concavo-expansá, aperture subarcuari, labro plano-reflexo; tellusidocorná, labro alládo.

CANTOR’S BULIMUS. Shell obliquely cylindrical, rather solid, compressly umbilicate, whorls eight in number, very obliquely finely striated, columnella concavely expanded, aperture nearly orbicular, lip flatly reflected; transparent horny, lip whitish.


Hab. Environ of Nanking, China.

Although of a subtransparent horny substance, it is rather a stout shell.

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Species 405. (Mus. Cuming.)

BULIMUS ROSSMASSELI. Bul. testá aminimato-oblongá, subcylindrisc, compressá umbilicatá, anfractibus octo, obliqué cretserimá plicato-striatá, columnellá concavo-expansá, calcisitale reperá superfíci nusitá, aperturá pareá, labro subexpanso; superfícius fusca, inferná sordidá alba.

ROSSMASSELI’S BULIMUS. Shell acuminate oblong, slightly cylindrical, compressly umbilicate, whorls eight in number, obliquely very closely plicately striated, columnella concavely expanded, furnished at the upper part with a small callusity, aperture small, lip slightly expanded; brown at the upper part, dull white about the lower.


Hab. Asia Minor.

It appears to be a general character in the species, to present the above recorded contrast of colour.

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Species 406. (Mus. Cuming.)

BULIMUS SYRIACUS. Bul. testá oblongo-cylindraceá, compressá umbilicatá, spire suntusius liniar-sulcatus, anfractibus septem ad octo, planulatis, parum convexis, columnellá indistinctís umbilicatá, aperturá orbiculari, labro plano-reflexo; griseo-albicante, apice fusca, labro albo.

THE SYRIAN BULIMUS. Shell oblong-cylindrical, compressly umbilicate, sutures of the spire linearly grooved, whorls seven to eight in number, flattened, but little convex, columnella indistinctly one-plaited, aperture orbicular, lip flatly reflected; greyish white, apex brown, lip white.

PFEIFFER, Symb. vol. iii. p. 88.

Hab. Syria.

Distinguished among other characters by the flattened and closely appressed volution of the whorls.

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Species 407. (Mus. Cuming.)

BULIMUS LYCIUS. Bul. testá cylindraceo-ovatá, subcylindricá, sinumilitá, anfractibus sex ad septem, laevus, nitidissimus, columnellá usum, anfractibus uniplantá, labro sub-incassate, reflexo; cornuo-maskante, tellusidocorná, labro albo.

THE LYCIAN BULIMUS. Shell cylindrically ovate, rather ventricose, scarcely umbilicate, whorls six to seven in number, smooth, very shining, columnella obscurely one-plaited, lip somewhat thickened, reflected; horny yellow, transparent, lip whitish.

PFEIFFER, Phil. Abhild. vol. ii. p. 113. pl. 4. f. 4.

Hab. Lycia; Spratt.

A comparatively stout shell, yet of such clear transparent substance that the axis of the columnella may be seen throughout.

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Species 408. (Mus. Cuming.)

BULIMUS CANDELARIS. Bul. testá elongato-oblongá, sinistrá, subcylindraceá, compressá umbilicatá, anfractibus noveém, plano-convexis, subrassum tenístrias, columnellá concavo-expansá, aperturá pareá, labro expanso; sordidé alba, labro eburneo.

THE CANDLE-LIKE BULIMUS. Shell elongated oblong, sinistral, somewhat cylindrical, compressly umbilicate, whorls nine in number, flatly convex, rather rudely finely striated, columnella concavely expanded, aperture small, lip expanded; dead white, lip ivory white.


Hab. —?

Locality unknown, but probably on the confines of Europe and Asia.

January, 1849.
BULIMUS.—Plate LX.

Species 409. (Mus. Cuming.)

**Bulimus carneus.** Bul. testâ cylindracaê, vis unibiliçata, apice obtusâ, anfractibus novem, plano-convexis, oblitiâ subobscuro striatis, colunmmâ latiâ expansâ, subplicataê, apertura fere semioblique, labro subincrassato, convexâ subplicataê; cornæ, pallidæ, nitisâ, labro albo.


Of a stout cylindrical growth with the apex peculiarly erect and papillary.

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Species 410. (Mus. Cuming.)

**Bulimus labrosus.** Bul. testâ cylindracaê, tintâ, solidiusculâ, compressâ umbilicataê, anfractibus sex ad septem, obscuro oblique tenuissimatiis, nitisâ, colunmmâ concaavo-expanded, subplicataê, apertura fere orientarii, labro increasato, late reflexo, liris calllositate continuo; livido-fuscoscendo, subpellucidâ, labro intusâ lacteo.

**The broad-brimmed Bulimus.** Shell cylindrical, swollen, rather solid, compressely umbilicated, whors six to seven in number, obscurely obliquely finely striated, shining, colunmmâ concave expanded, slightly plaited, aperture nearly orbicular, lip thickened, broadly reflected, continuous with a callous ridge; pale livid brown, somewhat transparent, lip dark cream-colour.

**Olivier, Voy. Levant, vol. ii. p. 222. pl. 31. f. 10.**

**Cochlogena labrosa.** Féussac.

**Pupa labrosa.** Lamarck.

**Hab. Syria.**

This fine species is remarkably characteristic of the semitransparent substance, cylindrical form, and dilated lip typical of the Bulini of Syria and Asia Minor.

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Species 411. (Mus. Cuming.)

**Bulimus Ehrenbergi.** Bul. testâ abbreviato-cylindracaê, tintâ, solidiusculâ, compressâ umbilicataê, apice erecto-papillarii, anfractibus septem ad octo, levibus, vis striatis, colunmmâ labroque reflexis; sordide carnirolecente-alba.

**Ehrenberg’s Bulimus.** Shell abbreviately cylindrical, rather swollen, compressely umbilicated, apex erectly papillary, whors seven to eight in number, smooth, slightly striated, lip and colunmella reflected; dull bluish-white.

**Pfeiffer, Philippi, Abbild. vol. ii. pl. 4. f. 5.**

**Hab. Lycia; Spratt.**

This, like the B. Lycicus from the same locality, is a stout shell, although sufficiently transparent to show the axis of the colunmella.

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Species 412. (Mus. Cuming.)

**Bulimus labiosus.** Bul. testâ acuminato-cylindracaê, solidiusculâ, anfractibus octo, levibus, politis, colunmmâ latiâ expansâ, subplicataê, apertura fere orientarii, labro convexo-incrasato, latissimâ reflexo, levîa callose continuo; opalo-alba.

**The wide-lipped Bulimus.** Shell acuminately cylindrical, rather solid, whors eight in number, smooth, polished, colunmella broadly expanded, somewhat plaited, aperture nearly orbicular, lip convexly thickened, very broadly reflected, continuous by a callous lamina; clear opal white.

**Broquier, Encyclopédie Méthodique, p. 347.**

**Helix labiosa.** Muller.

**Pupa Jehovahii, Récluz.**

**Hab. Island of Socotra, Coast of Africa; Jehanne.**

Distinguished by its solid clear opal-like substance.

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Species 413. (Mus. Cuming.)

**Bulimus Alepi.** Bul. testâ oblongo-cylindracaê, compressâ umbilicataê, anfractibus septem, obliquè tenuissimâ striatis, colunmmâ plano-expanded, subplicataê, apertura fere orientarii, labro reflexo, calllositate fere continuo; cornæ-albicente, subpellucidâ, suturis opaco-albo marginatis, labro albo.

**The Aleppo Bulimus.** Shell oblong-cylindrical, compressely umbilicated, whors seven in number, obliquely very finely striated, colunmella flatly expanded, somewhat plaited, aperture nearly orbicular, lip reflected, almost continuous with callosities; horny white, transparent, sutures edged with opaque white, lip white.

**Cochlogena Alepi, Féussac, Prodrome, p. 418.**

**Bulimus helepensis.** Pfeiffer.

**Hab. Environs of Aleppo, Syria.**

Resembling the larger B. labiosus, both in aspect and general detail of character.
BULIMUS.

PLATE LXI.

Species 414. (Mus. Cuming.)

Bulimus sarcodes. Bul. acuminato-oblongo, tenui, subprofundo umbilicato, asfriothis sex ad septem, turnissimè ruguloso-stratioris. Strigis spiritalibus longissimis impresis sub lente decussatis, columnella reflexa, labro simplici; pelviculo-cornu, incarnato tincta.

The flesh-tinted Bulimus. Shell acuminately oblong, thin, somewhat deeply umbilicated, whorls six to seven in number, very finely rugosely striated, and decussated, beneath the lens, with delicate impressed striae, columnella reflected, lip simple; transparent, horny, tinged with flesh colour.


Hab. Honduras; Dyson.

An extremely delicate transparent shell.

Species 415. (Mus. Cuming.)

Bulimus fasciolatus. Bul. oblongo-cylindraceus, solidissimè, via umbilicata, apice obtusa, asfriothis septem, plano-convexis, striatulis, propc suturas minus- tissimè granulatis, columnellae breviter reflexae, aperturæ parvisculæ, labro subexpanso; albidæ, fasciis longitudinallis nigricantè-fuscis interdum conspicue pictæ, aperture fuscæ intumescens, castaneo-fuscae.

The little-banded Bulimus. Shell oblong-cylindrical, rather solid, scarcely umbilicated, obtuse at the apex, whorls seven in number, fairly convex, finely striated, very minutely granulated near the sutures, columnella shortly reflected, aperture rather small, lip slightly expanded; white, finely painted with longitudinal blackish-brown bands, interior of the aperture deep chestnut-brown.


Cochlogena fasciolata, Férussac.

Pupa fasciolata, Lamarck.

Hab. Syria, Crete, Rhodes, &c.

The white variety, represented at Fig. 415 b, is still marked with faint longitudinal bands.

Species 416. (Mus. Cuming.)


Hohenacker's Bulimus. Shell oblong-cylindrical, rather solid, scarcely umbilicated, whorls eight in number, finely convex, very finely somewhat granulose striated, lip and columnella a little expanded; white, interior deep chestnut-brown.


Bulimus anthostoma, Hohenacker.

Hab. Georgia.

Closely resembling the white variety of the preceding species, especially in regard to the intense dark colouring of the interior.

Species 417. (Mus. Cuming.)


Tournefort's Bulimus. Shell elongately turreted, sinistral, scarcely umbilicated, whorls twelve in number, fairly convex, smooth or obliquely minutely striated, lip and columnella a little expanded, three-toothed; white, interior of the aperture orange-yellow.


Pupa tridentata, Lamark.

Hab. Turkey in Europe.

The Clausilia levis of De Blainville, quoted by Dr. Pfeiffer as synonymous with this species, differs in being less elongated and composed of fewer whorls.

Species 418. (Mus. Cuming.)

Bulimus eburneus. Bul. testâ elongato-turritâ, non umbilicata, asfriothis novem, levibus, politis, columnellae subreflexa, labro simplici; eburneâ, interdum luteo pallide tincta.

The ivory Bulimus. Shell elongately turreted, not umbilicated, whorls nine in number, smooth, polished, columnella a little reflected, lip simple; ivory white, interior tinged with yellow.

January, 1849.
BULIMUS.—PLATE LXI.

Pfeiffer, Symbole, vol. ii. p. 44.
Hab. Turkey in Europe.

Of a smooth polished ivory aspect.

Species 419. (Mus. Cuming.)

**Bulimus Forskalli**. Bul. testa ventricosa-ovata, cylindraceo-Papiformi, lati umbilicato, anfractibus octo, obliquè crisscrossè elevato-striatis, columnellâ uniplacatâ, aperturâ suborbiculari, labro latissimè expanso; pollucido-albâ, labro intus fulvo-sanguineo tincto.

**Forskal's Bulimus**. Shell ventricosely ovate, cylindrically Pupa-shaped, widely umbilicated, whorls eight in number, obliquely very closely elevatedly striated, columnella one-plaited, aperture nearly orbicular, lip very much expanded; transparent white, lip tinged within with fulvous-blood colour.

**Bulimus Forskalli**, Beck, Ind. p. 68.
**Helix subnotata**, Chemnitz.
**Pupa candida**, Lamarck.
**Pupa arata**, Réduz.
Hab. Arabia.

This species partakes very much of the character of Pupa.

Species 420. (Mus. Cuming.)

**Bulimus Tauricus**. Bul. testa cylindraceo-turritâ, solidiscutâ, compresso-umbilicatâ, anfractibus novem ad decem, planiusculis, subobscuro obliquè striatis, columnella labroque dilatatis, aperturâ parcecutulâ; albâ, apertura fasse aurantio-tulê.

**The Tauric Bulimus**. Shell cylindrically turreted, rather solid, compressely umbilicated, whorls nine to ten in number, rather flattened, somewhat obscurely obliquely striated, lip and columnella dilated, aperture rather small; white, interior of the aperture tinged with orange-yellow.

Lang, Pfeiffer, Monog. Bul. p. 326.

**Bulimus lineatus**, Rossmassler.
**Bulimus obsoletus**, Ziegler.
**Bulimus fusiformis**, Menke.
Hab. Tartary.

Very minutely striated beneath the lens.

Species 421. (Mus. Cuming.)

**Bulimus cylindricus**. Bul. testa cylindraceo-oblongâ, sinistrâti, tenuiculâ, vis umbilicatâ, anfractibus octo, convexis, obliquè striatis, columnellâ expansâ, labro simplici; carulecente-albâ, apertura fasse lutescente tincta.

**The Cylindrical Bulimus**. Shell cylindrically oblong, sinistral, rather thin, scarcely umbilicated, whorls eight in number, convex, obliquely striated, columnella expanded, lip simple; bluish white, interior of the aperture faintly tinged with yellow.

Menke, MSS.
Hab. —?

The apex of this reversed species has a somewhat papillary aspect.

Species 422. (Mus. Cuming.)

**Bulimus Dardanus**. Bul. testa acuminate-turritâ, vis umbilicatâ, anfractibus octo ad novem, convexis, obliquè striatis, columnellâ reflexâ, apertura obliquè semicirculari, labro simplici; albidâ, incarnato-fusco obscurè tinctâ et striatâ, apertura fasse saturatâre.

**The Trojan Bulimus**. Shell acuminately turreted, scarcely umbilicated, whorls eight to nine in number, convex, obliquely striated, columnella reflected, aperture obliquely semi-oval, lip simple; whitish, obscurely stained and streaked with flesh-tinted brown, interior of a rather darker colour.

Hab. Asia Minor, Turkey in Europe.

Of a more acuminate, less cylindrical form than most of the allied species.
BULIMUS.

Plate LXII.

Species 423. (Mus. Cuming.)

BULIMUS PALLENS. Bul. testâ conico-ovatâ, umbilicata, anfractibus quisque ad sex, sub lente tenuissimâ oblique striatis, striî subulissimis impressis spiralisbus exsculptis, anfractu ultimo medio subangulato, columellâ tenui, angulari, labro simplici; pallide striatâ, labro striatim. 

The Pale Bulimus. Shell conically ovate, rather thin, whorls five to six in number, beneath the less very finely obliquely striated, and sculptured with very fine impressed spiral striae, last whorl slightly angulated in the middle, columella thin, narrow, lip simple; pale straw-colour.

Jonas, MSS. Mus. Cuming.

Hab. —— ?

This has very much the appearance of an immature shell, and is published with some doubt.

Species 424. (Mus. Cuming.)

BULIMUS FERREGINEUS. Bul. testâ conico-ovatâ, umbilicata, anfractibus rotundatis, levibus, columellâ labroque simpliciis; albida, rufo-fusco concentricâ striatê, et ad basim spiralliter interruptâ fossatâ.

The Rusty Bulimus. Shell conically ovate, umbilicated, whorls rounded, smooth, lip and columella simple; whitish, concentrically streaked with reddish-brown, and spirally banded at the base in an interrupted manner.

Hab. Peru.

An interesting little species, distinguished by a very characteristic style of painting.

Species 425. (Mus. Cuming.)

BULIMUS DYSONI. Bul. testâ ovato-torridâ, minute umbilicata, anfractibus sex ad septicm, rotundatis, irregulariter tenuissimatis, columellâ reflexâ, labro simplici; fusco-cornê, semipellucida.

Dyson’s Bulimus. Shell ovately turreted, minutely umbilicated, whorls six to seven in number, rounded, irregularly finely striated, columella reflected, lip simple; brown horny colour, semitransparent.


Hab. Honduras.

A bright brown pellucid shell in which the columella is visible throughout.

Species 426. (Mus. Benson.)

BULIMUS KUNAWURENSIS. Bul. testâ elongato-torridâ, sinistrostria, compressâ umbilicata, anfractibus duodecim, levibus, aut obscuris ruguloso-striatis, ad suturas minime crenulâs, aperturâ parâ, columnellâ labroque expansâ; fusco-corneâ, striis opacis â illic notâs, labro intus niveo.

The Kunawur Bulimus. Shell elongately turreted, sinistrally, compressely umbilicated, whorls twelve in number, smooth, or obscurely roughly striated, minutely crenulated at the sutures, aperture small, lip and columella expanded; brownish horn colour, marked here and there with opake white streaks, lip snow-white within.

Hutton, MSS.

Hab. Kunawur, India.

I am indebted for this characteristic Indian species to Mr. Benson, and for the information that it was collected by Capt. Hutton at Chini in Kunawur on the bank of the river Sutlej, before it passes through the snowy range of the Himalaya.

Species 427. (Fig. a and b, Mus. Cuming.)

BULIMUS IBRORATUS. Bul. testâ acuminato-oblongâ, medio ventricoso, anfractibus sex, subrotundatis, striis tumidis elevatis interrupitis oblique exsculptis, infra suturas peculiariter concentricâ crenulatâ, columnellâ strictâ umbilicata; rufo-corneâ, perfusocorneâ, anfractu ultimo epidermis tenue cineraceente, maculis fulvo-albidâs, fusco-umbritis asperâs, induto, columellâ oeruleo-corneâ, labro incarnaturo-roseo.

The Reeded Bulimus. Shell acuminately oblong, ventricose in the middle, whorls six in number, somewhat rounded, obliquely sculptured with swollen raised interrupted striae, and peculiarly concentrically crenulated beneath the sutures, columella strictly one-plaited; reddish purple, last whorl covered with a pale ash epidermis, sprinkled with brown-shaded fulvous white spots, columella bluish-white, lip flesh-pink.


Hab. Brazil? New Granada?

Mr. Cuming is indebted for this beautiful new species

March, 1849.
to the liberality of A. L. Gubba, Esq., of Havre. It is of a swollen ovate form with the spire rather sharply acuminate, and the columella is distinguished by a sharp winding plait. The ground colour of the shell is a reddish purple, the last whorl being particularly characterized by a thin ash-coloured epidermis, sprinkled with light fulvous spots, all inclining towards the lip which is of a delicate flesh-pink.

Species 428. (Mus. Cuming.)

**Bulimus lineatus.** Buli testá acuminate-conicó, sub-umbilicato, anfractósus septem, levílis, sub lente minuti striatí, columellá laté reflexá, apertúra subobliquá, labro paululam reflexó; albidó, cinnamomeo-fuscescente obílique lineát et striatá, labro niveó.

The lineated Bulimus. Shell acuminate conical, slightly umbilicated, whorls seven in number, smooth, minutely striated beneath the lens, columella broadly reflected, aperture rather oblique, lip a little reflected; whitish, obliquely lineated and streaked with light cinnamon brown, lip snow-white.


Hab. Brazil.

Not much unlike the *B. cinnamomeo-lineatus* in general appearance.

Species 429. (Mus. Cuming.)

**Bulimus pseudo-Succinea.** Buli testá subfusiformi-oblongó, tenueissimá, vitreó, pellucidó, anfractósus quinque ad sex, subtilissimé striatúlis, ultimo inflato, patulo, columellá labroque tenuisíbus, simplexíbus; stramineo-convexís.

The false-Succinea Bulimus. Shell somewhat fusiformy oblong, very thin, glassy, transparent, whors five to six in number, very finely and delicately striated, last whorl inflated, wide open, lip and columella thin, simple; pale straw horn-colour.


*Helis pseudo-Succinea*, Moricand.

Hab. Bahia, Brazil.

An extremely transparent glassy shell of a delicate pale straw-colour.

Species 430. (Mus. Cuming.)

**Bulimus Natalensis.** Buli testé angulato-conicó, Tro- chiformi, anfractósus sex, obliquó striatí, ultimo angula- to-productus, columellá subincrassatá, labro viatípcis; fuleó, nitente, nigro-fusco conspicó fasciátá.

The Natal Bulimus. Shell angularly conical, Trochus-shaped, whors six in number, obliquely striated, last whorl angularly produced, columella rather thickened, lip simple; fulvous, shining, conspicuously banded with black-brown.

Krauss, Sudafrikanischen Moll. p. 71. pl. 5. f. 1.

Hab. Port Natal, South Africa.

A light semitransparent trochiform shell, conspicuously dark-banded at the sutures and round the middle of the last whorl.
BULIMUS.

PLATE LXIII.

Species 431. (Mus. Cuming.)

**Bulimus popa.** Bul. testa cylindraceo-oblonga, vix umbilicata, anfractibus septem, obscurè rude striatis, aperture parteuscula, labro subexpanso; pollicido-corned, labro albo.

**The popa Bulimus.** Shell cylindrically oblong, scarcely umbilicated, whars seven in number, obscurely rudely striated, aperture rather small, lip a little expanded; transparent horny, lip white.

**Broquier, Enc. Méth. vol. i. p. 349.**

**Helix popa, Linneus.**

Varietates (sûde Pfeiffer).

**Bulimus tibcurculatus, Turton.**

**Bulimus emarginatus, Deshayes.**

**Bulimus Babauchii, Anton.**

**Bulimus labiatus, Ziegler.**

**Pupa primivita, Menke.**

**Hab. Syriza, the Morea, Algeria, the Canary Islands, &c.**

This species is not found in Britain or Central Europe.

Species 432. (Mus. Cuming.)

**Bulimus leucodon.** Bul. testa subelongato-turrítæ, vix umbilicata, anfractibus novem, obliquè creberribï inpreso-striatis, aperture parteus, subquadratd, marginibus junctis, labro dente valido interno, extus scrobiculum formante, medio constipato musko; olivaceo-corned, dente labroque albitis.

**The white tooth Bulimus.** Shell somewhat elongately turreted, scarcely umbilicated, whors nine in number, obliquely very closely impressly striated, aperture small, somewhat square; margins joined, lip conspicuously furnished in the middle with a strong internal tooth, forming a depression on the outer surface; olive-horny, tooth and lip whitish.

**Pfeiffer, Phil. Abbild. Conch. vol. ii. p. 114. Bulimus, pl. 4. f. 7.**

**Hab. Near Trebizond.**

Easily distinguished by a prominent internal tooth on the outer lip, whilst there is no indication of one on the columella.

Species 433. (Mus. Cuming.)

**Bulimus sidoniensis.** Bul. testa cylindraceo-turrítæ, umbilicata, anfractibus novem, plano-convexis, oblique striatis, aperturâ subquadratâ, prominüd, labro reflexo; pallide carnelo-cinnaceente, apice corned, apertura fauce fulgida.

**The Sidon Bulimus.** Shell cylindrically turreted, umbilicated, whors nine in number, flatly convex, obliquely striated, aperture somewhat square, prominent, lip reflected; pale bluish ash, apex horny, interior of the aperture fulvous.

**Helix Sidoniensis, Férussac, Prodrome.**

**Pupa Bulinoides, Pfeiffer.**

**Hab. Syria.**

On the confines of the genera Bulimus and Popa, but partaking rather more of the characters of the former.

Species 434. (Mus. Cuming.)

**Bulimus martinicenensis.** Bul. testa acuminato-turrîtæ, umbilicata, spira suturis subimpressa, anfractibus septem ad octo, subtiliter oblique striatis, aperture subquadrato-ovata, labro expanso; corned, subpellucida, labro albo.

**The Martinique Bulimus.** Shell acuminately turreted, umbilicated, sutures of the spire impressed, whors seven to eight in number, finely obliquely striated, aperture somewhat square-ovate, lip expanded; horny, rather transparent, lip white.


**Hab. Martinique.**

Chiefly distinguished by its acuminated form.

Species 435. (Mus. Cuming.)

**Bulimus perspectivus.** Bul. oblongo-turrítæ, tensiuentæ, ampliter et profunde umbilicata, anfractibus septem, largo, subtilissime oblique striatis, aperture subquadrato-oblonga; labro parum expanso; intus extusque intemè castanæ.

**The perspective Bulimus.** Shell oblong-turreted, rather thin, largely and deeply umbilicated, whors seven in number, smooth, very finely obliquely striated, aperture somewhat square-oblong, lip but little expanded; deep chestnut brown within and without.


**Hab. — ?**

Of a uniform transparent deep reddish-chestnut colour.

March, 1849.
Species 436. (Mus. Cuming.)

**Bulimus Kraussii.** Bul. testā ovato-ventricosā, anfractūs septem, umbique pubescentes minutissimē granulatus, longitudinaliter plicato-spiralis, columellā striatā reflexā, labro subincrustato, non reflexō; albidā, rufō-fuscō apicem versus conspicū flavumātō, et supra suturas peculiariter articulatā, columellā labrice internō intumē costamō-purpureā.

**Krauss’s Bulimus.** Shell ovately ventrosic, whorls seven in number, very beautifully minutely granulated throughout, longitudinally plicately striated, columella closely reflected, lip rather thickened, not reflected; whitish, conspicuously flamed with reddish brown towards the apex, and peculiarly articulated above the sutures with the same colour, columella and inner edge of the lip deep chestnut-purple.


Hab. Natal, South Africa (in the woods); Krauss.

This magnificent species, from a locality which has contributed little of particular interest to this genus, partakes very much of the form of *B. oblongus* and its congeners from South Eastern America. In colouring it is characterized by a singular articulated band around the sutures, and the lip and columella are coated with an enamel of deep chestnut-purple. In sculpture the entire surface of the shell is beautifully minutely granulated, besides being plicately striated, a character to which it is proper to direct attention from the difficulty of representing it in a figure.

The discovery of this fine species by Dr. Krauss in the woods of South Africa, gives us some idea of the richly painted snails and other animal forms that may be dwelling at this moment in the vast unexplored regions of that immense continent so fatal to European health and enterprise.

Species 437. (Mus. Cuming.)

**Bulimus pubescens.** Bul. testā oblongo-ovatā, umbilicatā, anfractūs sex ad septem, subrostrātās, sub late minutissimē reticulatūs, columellā uniplicatā, reflexā; labro reflexō; pellucido-corneā, epidermide tenni pubescente indutū, columellā labrice internō intumē costanō-purpureā.

**The pubescent Bulimus.** Shell oblong-ovate, umbilicatā, six in number, somewhat rounded, very minutely reticulated beneath the lens, columella one-plaited, reflected, lip reflected; transparent horn, covered with a thin pubescent epidermis, lip and columella whitish.

**Moricand,** Mém. 3rd Supp. p. 63. pl. 5. f. 21-23. 

Hab. Bahia, Brazil.

Distinguished by its minutely reticulated surface, and pubescent epidermis.

Species 438. (Mus. Cuming.)

**Bulimus fraterculus.** Bul. testā subacuminato-ovatā, umbilicatā, tenuevulva, anfractūs sex, obliquō tenuevulva plicato-spiralis, striis impressis spiralis parallelēs remotē decussatūs, columellā reflexō, labro simplici; pellucido-corneā.

**The allied Bulimus.** Shell somewhat acuminately ovate, umbilicatā, rather thin, whors six in number, obliquely very finely plicately striated, decussated with remote parallel spiral impressed strīe, columella reflected, lip simple; transparent horn.


**Cochlogena fraterculus,** Fèreussac.

Hab. Guadaloupe.

The remote spiral strīe which characterize this shell, are totally different in appearance from those which traverse it obliquely.

Species 439. (Mus. Cuming.)

**Bulimus Orbignii.** Bul. testā acuminato-oblongō, umbilicatā, anfractūs septem, concentrica creberrimē tenuevulva, columellā subreflexō, labro simplici; albidā.

**Orbigny’s Bulimus.** Shell acuminately oblong, whors seven in number, concentrically very closely finely ridged, columella slightly reflected, lip simple; white.


Hab. Lima.

Very like the *B. scalariformis* in general aspect, but sufficiently distinct on comparison.
BULIMUS.

PLATE LXIV.

Species 440. (Mus. Cuming.)

Bulimus Socotrensis. Bul. testa globose, crassiuscula, umbilicata, anfractibus quinque ad sex, conspicue concentricè plicate-striatis, aperture subrotundata; albida, fusco peculiariter obligna spiriuliter undato-tringata, aperture fusco fusca.

The Socotra Bulimus. Shell globose, rather thick, umbilicated, whorls five to six in number, conspicuously concentrically plicate striated, aperture somewhat rounded; whitish, peculiarly obliquely spirally streaked in a waved manner with brown, interior of the aperture brown.

Hab. Island of Socotra.

About the size of a large pea, curiously painted with spirally oblique streaks.

Species 441. (Mus. Cuming.)

Bulimus Ferussaci. Bul. testa oblongo-turrif, umbilicata, anfractibus octo, subrotundatis, levibus, columellâ reflexa, aperture parva; opaco-albo, nigripunctata, anfractis vilius fasciis nigri cingulato.

Ferussac's Bulimus. Shell oblong-turreted, umbilicated, whorls eight in number, somewhat rounded, smooth, columella reflected, aperture small; opaque-white, dotted with black, last whorl encircled with a black band.

Dunker, Zeitschr. fur Malac. 1845, p. 104.

Hab. Loanda, West Africa.

Sprinkled with minute dots upon an opaque-white ground, the last whorl being encircled with a conspicuous band.

Species 442. (Mus. Cuming.)


The Bahia Bulimus. Shell fusiformy oblong, umbilicated, whorls eight in number, flatly convex, smooth, columella reflected, one-plaited, aperture oblong, lip expanded; transparent-white, peculiarly waved here and there with opake-white.


Hab. Bahia, Brazil.

The opaque-white streaks on the surface of this transparent shell, have somewhat the character of an epidermis.

Species 443. (Mus. Cuming.)

Bulimus reticulatus. Bul. testa obeso-cylindracea, solidiuscula, apico mucronato, anfractibus septem ad octo, plano-convexis, sub teste minute granoso-reticulatis, suturis peculiariter sulcatis, columella latè reflexa, aperture parviscula, labro conspicue reflexa; albido-fuscescente, labro obnovo.

The reticulated Bulimus. Shell stoutly cylindrical, rather solid, apex pointed, whorls seven to eight in number, flatly convex, minutely granosely reticulated beneath the lens, sutures peculiarly grooved, columella broadly reflected, aperture rather small, lip conspicuously reflected; whitish-brown, lip ivory-white.

Hab. West Africa.

Distinguished by its delicate minutely grained surface.

Species 444. (Mus. Cuming.)

Bulimus cylindricus. Bul. testa pyramidalis-turrif, minutù umbilicata, anfractibus decem ad undecim, levibus, politis, columellâ plano-reflexa; albida, fusco-cincta, striis purpuraro-nigris peculiariter reticulatis longitudinalitis obliquè picta, apice nigricante.

The cylindrical Bulimus. Shell pyramidally turreted, minutely umbilicated, whorls ten to eleven in number, smooth, polished, columella flatly reflected; whitish, banded with light brown, longitudinally obliquely painted with peculiarly reticulated purple-black streaks, apex blackish.


Bulimus articulatus, Tarton.

Macroceraus signatus, Gilding.

Bulimus signatus, Sowerby.

Hab. Island of Tortola, West Indies.

A singularly-painted porcelain-like shell, distinguished by its pyramidal growth.

Species 445. (Mus. Cuming.)

Guilding's Bulimus. Shell pyramidal turreted, minutely umbilicate, whorls ten to eleven in number, rather rounded, smooth, columella but little reflected, aperture small, rounded, lip slightly expanded; white, obliquely painted with blackish-brown reticulated patches, last whorl banded, apex blackish.

Pfeiffer, Symbolae, vol. i. p. 82, and vol. ii. p. 115.

Hab. West Indies.

Distinguished from the preceding species, by the whorls being more rounded, and the shell less sharply pyramidal.

Species 446. (Mus. Cuming.)

Bulimus fragosus. Bul. testa obeso-cylindracea, latè umbilicate, apice mucronato, anfractibus septem, pluricostatis, concentricè crèstata, columna latè reflexa, aperturâ subrotundâ, labro subexpanso; suturâ alba.

The rough Bulimus. Shell stoutly cylindrical, broadly umbilicate, apex painted, whorls seven in number, flatly convex, concentrically very closely elevated striated, sutures as though grooved, columella broadly reflected, obscurely one-plaited, aperture nearly round, lip expanded; dead white.


Cochlogena fragosa, Pérussac.

Hab. Yemen, Arabia.

The margins of the aperture almost unite on the body whorl.

Species 447. (Mus. Cuming.)

Bulimus coronatus. Bul. testa oblongo-turrata, via umbilicata, anfractibus levibus vel obscure rugè striata, tuberculis parvis compressis ad suturam crenulatis, columna tenui, angustâ; pulicido-stratimès.

The coronated Bulimus. Shell oblong-turreted, scarcely umbilicate, whorls smooth, or obscurely rudely striated, crenulated at the sutures with a row of small compressed tubercles, columella thin, narrow; transparent straw-colour.

Pfeiffer, Symbolae, vol. iii. p. 83.

Hab. Brazil.

Each whorl is coronated at the sutures by a row of small compressed tubercles.

Species 448. (Mus. Cuming.)

Bulimus formosus. Bul. testa cylindraceo-oblongâ, sub-umbilicatâ, apice mucronatâ, anfractibus decem, rotundatis, concentricè subâ militer striatis, columnella latè reflexa, aperturâ subrotundâ, labro subexpanso; abidâ, nigricante-fusco transversa linea et oblique remotè striata, apice nigricante.

The beautiful Bulimus. Shell cylindrically oblong, slightly umbilicate, apex pointed, whorls ten in number, rounded, concentrically finely striated, aperture small, rounded, lip a little expanded; whitish, transversely lined and obliquely remotely streaked with blackish brown, apex blackish.


Hab. Island of St. Domingo, West Indies.

Closely allied to the pretty West Indian species above described, B. cylindricus and Guildingii.

Species 449. (Mus. Cuming.)

Bulimus Boissieri. Bul. testa globosa, inflata, fragilis, pullicida, epidermide tenui cornuti nitente indurata, spirâ brevi, suturis impressis, anfractibus quatuor ad quinque, rotundatis, columnella tenui, simplici, aperturâ subamplâ; pulicido-brunnê.

Boissier's Bulimus. Shell globose, inflated, fragile, transparent, covered with a thin shining horny epidermis, spire short, sutures impressed, whorls four to five in number, rounded, columella thin, simple, aperture rather large; transparent brown.

Hab. Bahia, Brazil.

A curious little Physa-like shell, of transparent horny substance, extremely delicate to the touch.
**BULIMUS.**

**Plate LXV.**

Species 450. (Mus. Cuming.)


**The ribbed Bulimus.** Shell cylindrically turrited, rather solid, compressely umbilicated, whorls eight in number, convex, neatly sculptured with fine striate ribs, columnella flatly reflected, plicately toothed, aperture small, lip a little expanded; pale ashly flesh-colour, shining, ribs whitish, interior of the aperture brown.


_Hab._ Brazil.

Very delicately ribbed after the manner of a Pupa.

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Species 451. (Mus. Cuming.)

*Bulimus conformis.* Bul. testā ovato-conicā, minutē umbilicatā, anfractibus quinque, levibus, ultimo ventricoso, medio obtusē angulato, columnellā brevissimē reflexē, aperūtā oblongā, labro simplici, acuto; albētā, striis fusce oblongē irregularīer notātā.

**The cone-shaped Bulimus.** Shell: ovately conical, minutely umbilicated, whorls five in number, smooth, last whorl ventricose, obtusely angled in the middle, columnella very shortly reflected, aperture oblong, lip simple, sharp; whitish, obliquely irregularly marked with brown streaks.


_Hab._ Andes of Columbia, near Merida.

The peculiar conical form of this shell gives it the appearance of immature growth.

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Species 452. (Mus. Benson.)

*Bulimus punctatus.* Bul. testā ovato-conicā, subprofundē umbilicatā, anfractibus sex, levibus, columnellā latē reflexē, appressē, aperūtā ovātā, labro simplici; sutulo-attā, zonālē angulā punctuque numerosis sparsīs, migrācitionibus, ornātā, spicis migrācantibus.

**The dotted Bulimus.** Shell ovately conical, rather deeply umbilicated, whorls six in number, smooth, columnella broadly reflected, appressed, aperture ovate, lip simple; scorched white, ornamented with a narrow blackish spiral zone, and numerous scattered spots, apex blackish.

Anton, Verz. p. 62.

_Hab._ Bundelkund and Southern India (on plants); Benson, Jerdon.

The name given to this species in manuscript by Mr. Benson was solatius, signifying freckled, not solatus as printed by Dr. Pfeiffer. Manuscript names ought not, however, to be quoted as synonyms; a private name is scarcely open to public criticism.

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Species 453. (Mus. Cuming.)

*Bulimus pemphigodes.* Bul. testā globo-conicē, ventricose-inflata, tetonisātā, minutē umbilicatā, spirā brevi, anfractibus quinque, convexis, obliquo subtilissimō striatis, columnellā reflexē, appressē, aperūtā amplē, labro simplici, acuto; pallidē virecente-striātā, diaphanē, epidermide tenui opacē fasciātum inversā.

**The bladder-like Bulimus.** Shell globose conical, ventricously inflated, very thin, minutely umbilicated, spire short, whorls five in number, convex, obliquely very finely striated, columnella reflected, appressed, aperture large, lip simple, sharp; pale greenish straw-colour, diaphanous, covered with a thin opaque epidermis.


_Hab._ Guinea.

An extremely delicate inflated species named originally _B. vesiculosa_ by Dr. Jonas in manuscript.

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Species 454. (Mus. Cuming.)

*Bulimus irregularis.* Bul. testā ovato-oblongā, subamplē umbilicatā, anfractibus sex, rugulosō-striātā, suturās impressās, columnellā latē reflexē, aperūtā oblongā, labro simplici; carneo-fuscescentē.

**The irregular Bulimus.** Shell ovately oblong, rather largely umbilicated, whorls six in number, rather roughly striated, sutures impressed, columnella broadly reflected, aperture oblong, lip simple; light fleshy brown.


May, 1849.
BULIMUS.—Plate LXV.

Hab. Quito, Equador; Lattre.

This species is more fully described by Dr. Pfeiffer, but its characters are very simple, approaching those of the Chilian group.

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Species 455. (Mus. Cuming.)

Bulimus dealbatus. *Bul. testâ ovato-conicâ, tenuiculâ, umbilicatâ, anfractibus sex, opicem versus subtilissimâ striatis, columellâ reflexâ, aperturâ ovatâ, simplici; virescente-albâ, subpellucidâm, machis punctiâque opaco-cylindricâ irregulariter striatâ et asperât."

The whitened Bulimus. Shell ovately conical, rather thin, umbilicate, whorls six in number, very finely striated towards the apex, columella reflected, aperture ovate, simple; pale greenish transparent white, irregularly streaked and sprinkled with opaque dots and blotches.

Hab. Alabama, North America.

The surface marking of this shell is not unlike that of the *B. conspersus*.

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Species 456. (Mus. Cuming.)

Bulimus Yungasensis. *Bul. testâ subfusiformi-oblongâ, tenuiculâ, via subserialâ, anfractibus sex, subrugosis, obscure indentatis, columellâ recedente, reflexâ, plano-appressâ; virescente-albâ, machis virescento-brunneis inaequalibus triseriatis cinetâ."

The Yungas Bulimus. Shell somewhat fusiform oblong, rather thin, scarcely umbilicate, whorls six in number, rather rough, obscurely indented, columella receding, reflected, flatly appressed; violet-tinted white, encircled with three rows of irregular violet-brown spots.

Hab. Eastern side of the Andes of Bolivia, in the woods near the Mequilla river; D'Orbigny.

This species is unknown to me in good condition.

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Species 457. (Mus. Cuming.)

Bulimus Dussumieri. *Bul. testâ obeso-cylindraceâ, um-

biliâtâ ad apicem subobtusâ, anfractibus octo, angustis, obliquâ striatis, columellâ reflexâ, aperturâ subquadrâtâ; pelliculo-cornicâ."

Dussumier's Bulimus. Shell stoutly cylindrical, umbilicate, rather obtuse at the apex, whorls eight in number, narrow, obliquely striated, columella reflected, aperture somewhat square; transparent horny.  
Hab. India.

Mr. Cuming received this shell from the continent with the above name, but I cannot learn that it has been published.

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Species 458. (Mus. Cuming.)

Bulimus Sayi. *Bul. testâ conico-oblongâ, minutë umbilicatâ, anfractibus sex, confertis rugoso-plicatis, columellâ breviter reflexâ, appressâ; opaco-albâ, striis reflescentes-fuscescis pelliculis longitudinaliter notatâ, circa umbilicum reflessis-fuscescis."

Say's Bulimus. Shell conically oblong, minutely umbilicate, whorls six in number, closely rugosely plicated, columella shortly reflected, appressed; opaque white, longitudinally marked with transparent reddish-white streaks, reddish-brown around the umbilicus.

Hab. — ?

The transparency of the brown stripes that distinguish this species, is very peculiar.

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Species 459. (Mus. Cuming.)

Bulimus Cyclostoma. *Bul. testâ conicâ, profundë et subampularibus umbilicatâ, anfractibus rotundatis, concentricâ striatis, columellâ latâ reflexâ, aperturâ circulari, labro simplici; carneocele-albâ."

The Round-Mouth Bulimus. Shell conical, deeply and rather largely umbilicate, whorls rounded, concentrically striated, columella broadly reflected, aperture circular, lip simple; bluish-white.  
Hab. — ?

Of a delicate white texture, deeply umbilicate, and approaching the form of a Cyclostoma.
BULIMUS.

PLATE LXVI.

Species 460. (Mus. Cuming.)

BULIMUS UMBILICARIS. Bul. testa pyramidalis-conica, profundissima et amplissima umbilicata, anfractibus sex ad septem, compressis, concentricis, striatis, suturis impressis, aperture angusti ovali, labro subexpanso; pallide corniculato-cinereo.

THE UMBILICAL BULIMUS. Shell pyramidsally conical, very deeply and largely umbilicated, whorls six to seven in number, very compressed, concentrically striated, sutures impressed, aperture narrow-oval, lip slightly expanded; pale flesh-tinted ash.

SOULETET, Revue Cuvierienne, 1842, p. 102.

Hab. Cobija, Bolivia.

This species is remarkable for its very capacious umbilicus, the whorls being so much compressed as to form a hollow cone.

Species 461. (Mus. Cuming.)

BULIMUS VARIATUS. Bul. testa cylindraceo-oblonga, crassula, compressa umbilicata, anfractibus septem, oblique striatis, aperture parva, columella labroque reflexis; brunneis, striis lineamentis obliquis variegatis.

THE VARIED BULIMUS. Shell cylindrically oblong, rather thick, compressly umbilicated, whorls seven in number, obliquely striated, aperture small, lip and columella reflected; dark brown, obliquely variegated with yellowish streaks.

WEBB and BERTHELOT, Syn. p. 326.

Hab. Canary Islands.

There appears to be a slight yellowish epidermis.

Species 462. (Mus. Cuming.)

BULIMUS GOSSEI. Bul. testa cylindraceo-turritae, compressa umbilicata, apice attenuata, anfractibus decem, angustis, subrotundatis, perobliquis costulato-striatis, suturis crenulatis, aperture circulari, columnae labroque expansis; griseo-cinerascente, striis semilunarisibus albis, fusco-unbrickis, punctis fuscis ornatis, fusco pellucido.

GOSSE'S BULIMUS. Shell cylindrically turreted, compressly umbilicated, apex attenuated, whorls ten in number, narrow, somewhat rounded, very obliquely sculptured with fine rib-like striae, sutures crenulated, aperture circular, lip and columella a little expanded; greyish-ash, ornamented with brown dots and white semilunar streaks shaded with brown, the brown being transparent.


Hab. Jamaica; Gosse.

The interesting new species of BULIMUS and Achatina collected by Mr. Gosse in the Island of Jamaica, whilst engaged in ornithological pursuits, present an honourable testimony of his zeal in natural science, and furnish an example of what may be done by an active collector, with eyes to observe, and a mind to comprehend, the minute forms of animal life.

Species 463. (Mus. Cuming.)

BULIMUS KIENERI. Bul. testa cylindraceo-turritae, compressa umbilicata, apice attenuata, anfractibus decem, subrotundatis, perobliquis costulato-striatis, suturis crenulatis, aperture circulari, columnae labroque expansis; fusco-corniculato, striis semilunarisibus albis, semilunarisibus, ornatis.

KIENER'S BULIMUS. Shell cylindrically turreted, compressly umbilicated, apex attenuated, whorls thirteen in number, somewhat rounded, very obliquely striated in a rib-like manner, sutures crenulated, aperture circular, lip and columella a little expanded; brownish-horny, ornamented with semilunar white spots shaded with darker brown.


Hab. Honduras.

It is somewhat doubtful whether this is anything more than a local variety of the B. Gossei of Jamaica.

Species 464. (Mus. Cuming.)

BULIMUS ZEBRILUS. Bul. testa cylindraceo-elongata, Pupa-form, lati umbilicata, anfractibus decem, obliquis subobtusis, striatis, aperturis subquadrate, tridentatis, marginibus subexpansis, callo conjunctis; clypeo-albo, striis angustis fuscis obliquis nodatis.

THE STRIPED BULIMUS. Shell cylindrically elongated, Pupa-shaped, broadly umbilicated, whorls ten in number, obliquely rather obscurely striated, aperture somewhat square, three-toothed, margins a little ex-

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padded, joined by a callosity; chalk-white, obliquely marked with narrow brown streaks.

*Helix* (Cochlolognus) zebra, Férussac, Prodrome, No. 455.

*Bulimus* zebra, Olivier.


*Hab.* Greece; Capt. Spratt.

Of an opaque chalk-white obliquely marked with numerous streaks of light brown.

**Species 465. (Mus. Cuming.)**

*Bulimus bidens*. *Bul. testá cylindracoelo-lungaté, crassiusculá, compressá umbilicatá, anfractibus noceus, plano-convexís, obtusé obscure striatís, columellá reflexá, conspicuó dentato-plicaté, aperturá parceá; earulescenta-albá, striis augmentis perpansae fusci notátá.*

**The double-tooth Bulimus.** Shell cylindrically elongated, rather thick, compressly umbilicate, whorls nine in number, flatly convex, obliquely obscurely striated, columella reflected, conspicuously dentately plicated, aperture small; bluish-white, marked with a very few brown streaks.


*Bulimus Classisiformis*, Menge.

*Bulimus appendiculatus*, Potiez and Michaud.

*Hab.* Syria.

Potiez and Michaud regarded this species as the *Helix* (Cochlolognus) *appendiculatus* of De Férussac, of which Dr. Pfeiffer is doubtful.

**Species 466. (Mus. Cuming.)**


**The Cretan Bulimus.** Shell cylindrically oblong, rather attenuated towards the apex, scarcely umbilicate, whorls seven in number, delicately roughly striated, columella somewhat flattened, aperture squarely ovate, lip rather expanded, margins joined by a thin callosity; pale pinkish-yellow, sutures edged with white, lip white.


*Hab.* Island of Candia; Capt. Spratt.

A very delicate semitransparent shell, though of rather solid growth.

**Species 467. (Mus. Cuming.)**

*Bulimus acutus*. *Bul. testá pyramidalis-conicó, minutí umbilicatá, anfractibus noveus, rostratati, leviter corrugeo-striati, ad suturas nullá circumlatís, columellá tenui, reflexá, aperturá circulari, labro simplicí, acuto; pallide corné, maculis striigioque opaco-luteis mar- moratá, anfractu ultimó convá nigro cingulató.*

**The acute Bulimus.** Shell pyramidal conically, minutely umbilicate, whorls nine in number, rounded, slightly striated in a wrinkled manner, rudely crenulated at the sutures, columella thin, reflected, aperture circular, lip simple, acute; light horny, marbled with opaque cream-coloured streaks and blotches, last whorl encircled by a narrow black zone.

*Bruguier*, Enc. Méth. vol. i. p. 323.

*Helix acuta*, Muller,

*Helix bisaccate*, Pulleny.

*Helix fasciata*, Pennant.

*Turbo turricula macrocerca*, Chemini.

*Hab.* Spain, Portugal, West of England and Ireland.

The *B. articulatus* of Lamarck is probably a variety.

**Species 468. (Mus. Cuming.)**

*Bulimus unicarinatus*. *Bul. testá cylindracoelo-turritá, minutí umbilicatá, apice attenuatam, anfractibus decum, oblique subtubusissimó striatís, ultimó basi acutó unica- rinató, aperturá paré, circulari, labro subreflexó; olivaceo-corné, striis longitudinalibus numerosis opaco-albis ornatá.*

**The one-keeled Bulimus.** Shell cylindrically turreted minutely umbilicate, apex attenuated, whorls ten in number, obliquely very finely striated, last whorl encircled by a single sharp keel at the base, aperture small, circular, lip a little reflected; olive horny, ornamented with numerous opaque white longitudinal streaks.


*Papa unicarinata*, Lamarck.

*Bulimus Canisauriensis*, Pfeiffer.

*Hab.* Cuba, Guadaloupe.

Belongs to the same peculiar type as *B. Gossei*.

**Species 469. (Mus. Cuming.)**

*Bulimus badiosa*. *Bul. testá ovato-conicó, compressá umbilicatá, anfractibus sex, subtubusissimó granulatís, ultimó subventricoso, columellá reflexá, appressó, aperturó rotundato-ovatá, labro subexpanso, marginebas callo subtuberculoso conjunctis, castaneo-brunneá, labro albido.*

**The brown Bulimus.** Shell ovately conical, compressly umbilicate, whorls six in number, very finely granulated, last whorl rather ventricose, columella reflected, appressed, aperture rotundately oval, lip slightly expanded, margins joined by a somewhat tubercular callosity.


*Helix (Cochlolognus) badiosa*, Férussac.

*Hab.* Island of St. Thomas, Férussac; Teneriffe, Webb and Berthelot.

Chiefly characterized by its delicate granulated sculpture.
Bulinus, Pl. LXVII.

[Images of snails]
BULIMUS

Plate LXVII.

Species 470. (Mus. Cuming.)


The Achatina-like Bulimus. Shell elongately turreted, rather small, whors eight in number, very closely rudely striated, columella very shortly reflected, aperture small, lip acute; straw-colour, waxen.

Pfeiffer, Symbolae, vol. iii. p. 82.

Hab. Java.

Very closely allied to some of the small subulate species of Achatina.

Species 471. (Mus. Cuming.)

BULIMUS SUBTLIS. Bul. testa cylindraceo-turrita, via umbilicata, anfractibus novem, obliquè subobtuse radii striatis, columellà parum reflexa, aperture parva; pellucido-cornuta, suturiis albo-marginales.

The Delicate Bulimus. Shell cylindrically turreted, scarcely umbilicated, whors nine in number, obliquely rather obscurely rudely striated, columella but little reflected, aperture small; transparent horny, sutures edged with white.


Bulimus noeticagus, Parreyss.

Hab. Dalmatia.

The white edge of the sutures is only faintly indicated, but it is a character not to be over-looked.

Species 472. (Mus. Cuming.)

BULIMUS SANDWICENSIS. Bul. testa cylindraceo-turrita, umbilicata, anfractibus decem, subplanulatis, columellà latiuscula, parum reflexa, aperture parva, labro acuto; rygo-brunnea, strigis undulatis opaco-albis notata.

The Sandwich Bulimus. Shell cylindrically turreted, umbilicated, whors ten in number, somewhat flattened, columella rather broad, but little reflected, aperture small, lip sharp; red-brown, marked with waved opake-white streaks.


Hab. Sandwich Islands.

Species 473. (Mus. Cuming.)

BULIMUS MERDEUENIANUS. Bul. testa oblongo-conica, umbilicata, anfractibus octo, obscurè striatis, columellà latiuscula, parum reflexa, aperture rotundato-ovali, marginibus fere conjunctis, sordidis, borde.

The Merduen Bulimus. Shell oblong conical, umbilicated, whors eight in number, obscurely striated, columella rather broad, but little reflected, aperture rotundately oval, margins almost joined; dull horny.


Bulimus tener, Ziegler.

Bulimus fragilis, Parreyss.

Hab. Merduen; Asia Minor.

Distinguished by its conical form.

Species 474. (Mus. Cuming.)

BULIMUS COSSENSIS Bul. testa cylindraceo-oblonga, compressè umbilicata, anfractibus septem, obliquè subobtuse striatis, columellà latæ, concavo-appressā, aperture subquadrato-ovala, labro paululum expansa; cornelescente-alba, opaca.

The Cos Bulimus. Shell cylindrically oblong, compressely umbilicated, whors seven in number, obliquely rather rudely striated, columella broad, concavely appressed, aperture rather square ovate, lip a little expanded; bluish-white, opake.

Hab. Island of Cos, Grecian Archipelago; Capt. Spratt.

The lip is slightly expanded within, after the manner of Purtala.

Species 475. (Mus. Cuming.)

BULIMUS MONTAVAGUS. Bul. testa pyramidalis, compressè umbilicata, anfractibus novem, obscurè tenui-striatis, columellà reflexa, aperture parceinclusa, labro subexpanso; pallidè virecente-alba, pellucida, fuscècente hic illic obscurè striata.

The Mountain Bulimus. Shell pyramidal, compressly umbilicated, whors nine in number, obscurely finely striated, columella reflected, aperture rather small, lip

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somewhat expanded; pale greenish-white, transparent, obscurely streaked here and there with light brown.

Hab. Parana, Argentine Republic, (under dead leaves); D'Orbigny.

Has sometimes the appearance of being marked with white streaks.

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Species 476. (Mus. Benson.)

**Bulimus pullus.** Bul. testâ elongato-cylindraceâ, solidâ-
divisaâ, via umbilicataâ, annuationes novem, subbiliaâiseâ-
plicata-strictiâuta, infra suturas arcuâitum crenulatâ, apertura
parœâd, circulariâ, collumellâ labroque paululum expansius; fusco-
cescante-lacteâd.

The brownish **Bulimus.** Shell elongately cylindrical, rather solid, scarcely umbilicated, whorls nine in number, very finely plicately striated, arcutely crenulated beneath the sutures, aperture small, circular, lip and columella a little expanded; brownish cream-colour.


*Pupa cylindrica,* Hutton.

Hab. India. At Delhi (under stones); at Bundelkund (common among rocks and brushwood in the rainy season); Benson.

Mr. Benson collected a light variety of this species at Aden, Arabia, among loose stones on the skirts of the barren hills.

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Species 477. (Mus. Cuming.)

**Bulimus loewii.** Bul. testâ cylindraceo-turritaâ, sinistra,
compressâ umbilicataâ, apice obtusa attenuata, annuationes
noveâm, angustiaâ, planeâtisâ, levibus, apertura subquad-
rata-ovâli, quadridentâtaâ; pellucido-corneâ, dentibus
labroque opaco-albis, suturis albidis.

Loew's **Bulimus.** Shell cylindrically turreted, sinistral, compressly umbilicated, apex obtusely attenuated, whorls nine in number, narrow, rather flattened, smooth, aperture somewhat squarely oval, four-toothed; transparent horny, teeth and lip opake-white, sutures whitish.


*Pupa Loewii,* Kuster.

Hab. Lycia; Capt. Spratt.

This partakes much of the character of *Pupa.*

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Species 478. (Mus. Benson.)

**Bulimus arcuatus.** Bul. testâ oblongâ, sinistra, subven-
tricosa, compressâ umbilicataâ, annuationes septem, ru-
gulo-suturisâ, collumellâ latâ appressâ, labro subes-
panso; saturata corneo-fuscaâ, strigos luteo-cornuâs ang-
ustis nitidâ pictâ, labro alido.

The arched **Bulimus.** Shell oblong, sinistral, somewhat ventricose, compressly umbilicated, whorls seven in number, finely roughly striated, columella broadly appressed, lip a little expanded; dark horny brown, neatly painted with narrow yellowish streaks, lip whitish.


*Bulimus ornatus,* Hutton, MSS.

Hab. Mahassoo, Western Himalaya; Hutton.

I learn on the authority of Mr. Benson, that *ornatus* was the name originally given to this species by Capt. Hutton in manuscript, not *arcuatus* for which Dr. Pfeiffer mistook it. The error proves, however, to be a fortunate one, Hutton's name being already appropriated by Dufö.

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Species 479. (Mus. Cuming.)

**Bulimus olivaceus.** Bul. testâ oblongâ, compressâ um-
bulicataâ, annuationes sex, oblique striatâ, collumellâ
appressâ, labro paululum reflexo; corneo-olivaceâ, sericiâ,
labro albo.

The olive **Bulimus.** Shell oblong, compressly umbilicated, whorls six, in number, obliquely finely striated, columella appressed, lip a little reflected; horny olive, silken, lip white.

Pfeiffer, Abbild. und Besch. *Bulimus,* Pl. s. f. 6.

Hab. Island of Candia; Capt. Spratt.

Of very simple form, with little or no sculpture.
BULIMUS.

PLATE LXVIII.

Species 480. (Mus. Cuming.)

**Bulimus oryza.** Bul. testã cylindraceo-turritã, unisutã umbilicatã, anfractibus octo, rotundatis, longitudinaliter striatis, spira sunturis profundis, columnellã subreflexã, aperturã minusã, suborbiculati, labro simplici; virescentia-alba, vitrea.

**The rice-grain Bulimus.** Shell cylindrically turreted, minutely umbilicated, whorls eight in number, rounded, longitudinally striated, sutures of the spire deep, columella slightly reflected, aperture very small, nearly orbicular, lip simple; greenish white, glassy.


_Hab._ Brazil.

The shell here figured agrees with the description of this species given by Deshayes ( Lamarck, Anim. sans vert., vol. vii. p. 263), but not with Dr. Pfeiffer’s diagnosis, which describes a shell of cancelled sculpture, composed of five whorls only.

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Species 481. (Mus. Cuming.)

**Bulimus Tuckeri.** Bul. testã sublato-turritã, minuta umbilicatã, anfractibus octo, convexissimis, longitudinaliter striatis, spira sunturis impressis, columnellã subobliquã recedente, tenue reflexã, aperturã minusã, labro simplici; pallide corneã, pellucida.

**Tucker’s Bulimus.** Shell sublaterally turreted, minutely umbilicated, whorls nine in number, rather convex, longitudinally striated, sutures of the spire impressed, columella somewhat obliquely receding, finely reflected, aperture minute, lip simple; pale horn, transparent.


_Hab._ Hardy’s Island, Pacific Ocean; Tucker.

Chiefly distinguished by its subulate form.

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Species 482. (Mus. Cuming.)

**Bulimus bacterionides.** Bul. testã elongato-turritã, cylindraceã, ad apicem obtusa, anfractibus octo ad novem, subplano-convexã, levibus, nitidã, suturis impressis, columnellã rectã, interdum leviori truncata, aperturã parvã; lutescentes corneã, pellucida.

**The staff-like Bulimus.** Shell elongately turreted, cylindrical, obtuse at the apex, whorls eight to nine in number, rather flatly convex, smooth, shining, sutures impressed, columella straight, sometimes slightly truncated, aperture small; yellowish-horn, transparent.


_Hab._ Bolivia; D’Orbigny.

As an example of the little importance of the truncature of the columella as a generic character in the small _Achatina_, it may be remarked that in this species the columella is sometimes truncated and sometimes not.

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Species 483. (Mus. Cuming.)

**Bulimus impressus.** Bul. testã sublato-turritã, anfractibus octo, plano-convexã, politã, nitidã, luteis impressis obtusis distantis, longitudinaliter notulis, columnellã tenue reflexã, subobliquã recedente, aperturã parvã, oblonga; pallide corneã, solidissimã.

**The Impressed Bulimus.** Shell subulate, whorls eight in number, flatly convex, polished, shining, longitudinally marked with distant obscure impressed lines, columella thinly reflected, obliquely receding, aperture small, oblong; transparent horny, rather solid.

_Hab._ —?

A rather stout polished horny shell, marked here and there with faintly impressed lines, distinct from _B. subula_, in which the whorls are more rounded.

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Species 484. (Mus. Cuming.)

**Bulimus Mimosaorum.** Bul. testã cylindraceo-turritã, minuta umbilicatã, apice acute, anfractibus decem, angustis, subprominis, levibus vel subobliquis oblique striatis, columnellã tenui, latæ reflexæ, appressæ, aperturã parvæ, labro simplici; sordida alba.

**The Mimosa-inhabiting Bulimus.** Shell cylindrically turreted, minutely umbilicated, apex sharp, whorls ten in number, narrow, somewhat rounded, smooth, or finely striated, columella thin, broadly reflected, appressed, aperture small, lip simple; dull white.


_Hab._ Bolivia; D’Orbigny.

Found principally at the roots of thorny _Mimosa_ trees.

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Species 485. (Mus. Cuming.)

**Bulimus spoliatus.** *Bul.* testá cylindraceo-elongatá, mi-nutó umbilicatá, anfractúbus octo, planulátis, punctis obscúrè indenteatis, columellát subespansá, lirá dentífori aperturam intrae superi res annitát, aperturá subobliquá, labro medio oboléti unidentata; fuscescentes-lacétd, fusco supra suturás spirálier punctátd.


Hab. Province of Merida, New Granada; Funk.

An exceedingly delicate shell, having the appearance of light green glass.

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Species 488. (Mus. Cuming.)

**Bulimus decipitus.** *Bul.* testá subfusiformi-conicá, anfractúbus septem, levibus, nitidis, e suturis obscúrè concentricá striatis, columellát tortuót, recedente, ad marginem calloso, aperturá oblongá, labro simplici; virescente-ultráceo, pellúcidi.


Hab. — ?

Dr. Pfeiffer’s description of this species is inadvertently referred to at Pl. LV. Sp. 367, owing to his having taken it to be the *B. interstitucus* of Gould; arising probably from the displacement of a label in Mr. Cuming’s cabinet. Dr. Pfeiffer does not appear to have seen Dr. Gould’s description of that species, and I have been equally unsuccessful myself in finding it.

The shell described and figured at Pl. LV. Sp. 367, was received from Dr. Gould by Mr. Cuming with the name *B. interstitucus* attached to it, and he has also received specimens from Mr. Redfield of the United States similarly named.

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Species 489. (Mus. Cuming.)

**Bulimus Bergeri.** *Bul.* testá cylindraceo-turritá, mini-tá umbilicatá, anfractúbus novem, planicóncavís, ob-liquá striatis, columnátá latiusculá, aperturá parvá, tridentáta; fuscescentes-corné, dentítus albidis.

**Berger’s Bulimus.** Shell cylindrically turreted, minutely umbilicated, whorls nine in number, flatly convex, obliquely striated, columnella rather broad, aperture small, three-toothed; brownish horn-colour, teeth white.

**Pfeiffer,** Symbolae, vol. iii. p. 52.

*Pupa Bergeri,* Roth.

*Pupa tridentata,* Anton.

*Pupa tricuspid,* Rossmäler.

**Bulimus tridentatus,** Parreyss.

Hab. Greece, Egypt, &c.

I follow Dr. Pfeiffer in referring this species to *Bulimus*, but it seems really a matter of indifference whether it is included in this genus or in *Pupa*.
BULIMUS.

PLATE LXIX.

Species 490. (Mus. Cuming.)

BULIMUS HOLOSTOMA. Bul. testa turritâ, profunde umbilicatâ, anfractibus septâ, subquadriatis, corrugato-pli- catâ, peculiariter laxe convolutâ, suturis profunde, apertura integrâ, tubulari; carneo-cinereâ.

The entire-mouth Bulimus. Shell turreted, deeply umbilicated, whors seven in number, somewhat square, plicated in a wrinkled manner, peculiarly loosely convoluted, sutures deep, aperture entire, tubular; fleshy ash-colour.


Hab. Cobiâ, Bolivia.

An extremely interesting species in which the shell, forming a loosely convoluted spiral tube, has no axial pillar.

Species 491. (Mus. Cuming.)

BULIMUS RUFESTRIS. Bul. testa turritâ, minutâ umbilicatâ, anfractibus quinque ad sex, rotundatis, oblique costulato-striatis, apertura ovalis, fere integrâ; fusco-cornê.

The rocky Bulimus. Shell turreted, minutely umbilicated, whors five to six in number, rounded, obliquely sculptured with fine rib-like striae, aperture oval, almost entire; brownish-horny.


Pupa rufestris, Rossimusler.

Hab. Sicily; Philippi. Algeria; Terver.

A delicate Scalaria-like species in which the aperture is almost entire.

Species 492. (Mus. Cuming.)

BULIMUS CENOPICTUS. Bul. testâ oblongâ, compressâ umbilicatâ, anfractibus quinque, subrotundatis, levibus, columella in refectione, apertura parce; pellucido-cornê.

The dirty-painted Bulimus. Shell oblong, compressly umbilicated, whors five in number, somewhat rounded, smooth, columella scarcely reflected, aperture small; transparent horny.


Hab. India.

Dr. Pfeiffer remarks that this may be a variety of B. folliculus, but that is unlikely.

Species 493. (Mus. Cuming.)

BULIMUS SUBDIAPANUS. Bul. testâ cylindraceo-turritâ, via umbilicatâ, anfractibus septâ, convexâ, subtilissimâ obliquo striatis, columellâ subreflexâ, appressâ, apertura minima, latissimâ; eburnea, subdiapand, solidiuscula.

The semitransparent Bulimus. Shell cylindrically turreted, scarcely umbilicated, whors seven in number, convex, very finely obliquely striated, columella slightly reflected, appressed, aperture very small, rather broad; ivory-white, semitransparent, rather solid.

Pfeiffer, Symbolae, vol. ii. p. 182.

Pupa subdiaphana.

Bulimus Bamboucha, Webb and Berthelot.

Hab. Cape De Verd Islands.

A long Pupa-shaped semitransparent ivory-white shell.

Species 494. (Mus. Cuming.)

BULIMUS SUBULA. Bul. testâ subulato-turritâ, spira suturis impressis, anfractibus octo, longitudinaliter striatis, columellâ rectâ, brevissimâ reflexâ, apertura suboblongâ, labro simplici; pellucido-cornê, semiteaphane.

The awl Bulimus. Shell subolutely turreted, sutures of the spire impressed, whors eight in number, longitudinally striated, columella straight, very shortly reflected, aperture rather oblong, lip simple; transparent horny, very thin.

Pfeiffer, Symbolae, vol. i. p. 85.

Bulimus octonius, D’Orbigny.

Bulimus procervus, Adams.

Hab. Cuba.

A perfectly transparent shell, of a more acuminated subulate growth than the B. octona, for which it might be mistaken.

Species 495. (Mus. Benson.)

BULIMUS GRACILIS. Bul. testâ gracilis-subulatâ, via umbilicatâ, suturis impressis, anfractibus decem ad undecim, creberrimâ tenuissimâ concentricâ striatis, columellâ tenui, brevissimâ reflexâ, apertura superius levior contractâ, labro simplici; vix pellucido-cornê.

The slender Bulimus. Shell slenderly subulate,

May, 1849.
scarcely umbilicated, sutures impressed, whorls ten to eleven in number, very closely and finely concentrically striated, columella thin, shortly reflected, aperture slightly contracted at the upper part, lip simple; dull brownish horn colour.


An endem, Bulimus Indicus, Pfeiffer.

Hab. Bundelkhund, and all the plain Provinces of the Bengal Presidency; Benson. Point de Galle, Ceylon; Benson.

Dr. Pfeiffer’s B. Indicus appears to be merely an immature state of this species.

Species 496. (Mus. Benson.)

Bulimus nivicola. Bul. testa cylindraceo-ovata, obcon., ventricosa, sinistro, compressa umbilicata, anfractibus septem, convexis, obliquis striatis, ad suturas subobscure crenulatis, colurnellae latiusculae, appressed, aperturâ parcec, labro leviter expanso; rufus-fuscâ, striis albis obliquis hic illô irregulariter interruptis nodatâ, epidermide tenui intescente indutâ.

The Snow-Inhabiting Bulimus. Shell cylindrically ovate, stout, ventricose, sinistral, compressly umbilicated, whorls seven in number, convex, obliquely striated, somewhat obscurely crenulated at the sutures, columella rather broad, appressed, aperture small, lip slightly expanded; red-brown, marked here and there with irregularly interrupted oblique white streaks, covered with a thin yellowish epidermis.

Benson, MSS.

Pupa sylvatica, Hutton (âde Benson.)

Hab. Liti Pass, Western Himalaya (among juniper bushes and patches of snow at nearly 14,000 feet above the level of the sea); Capt. Hutton.

Mr. Benson is of opinion that this species, distinguished by its stout cylindrical form and reversed growth, which has been upwards of twelve years in his collection, is the Pupa sylvatica of Hutton, described in McClelland’s Journal for January, 1841, as being found among juniper bushes at Burrenda Pass, and of which the name is pre-occupied in the present genus to which this species strictly belongs. It is remarkable for its stout cylindrical form and reversed growth: it should, however, be remembered when referring to the plate, that the figure is very considerably magnified.

Species 497. (Mus. Cuming.)

Bulimus turricula. Bul. testa cylindriceo-turrita, minutâ umbilicata, prope apicem peculiariter attenuata, anfractibus novem, rotundatis, per obliquâ croberrimâ costulato-striatis, colurnellae latâ appressâ, aperturâ fere circulari; fuscescente, striis arcatis albis fuscâ umbrais hic illâ maronatâ.

The Little Turret Bulimus. Shell cylindrically turreted, minutely umbilicated, peculiarly attenuated near the apex, whorls nine in number, rounded, very obliquely closely striated in a fine rib-like manner, columella broadly appressed, aperture nearly circular; light brown, marbled here and there with arched brown-shaded white streaks.

Pfeiffer, Wiegman, Archiv., 1839. vol. i. p. 351.

Hab. Cuba.

An interesting little species allied in form to the B. Goessi.

Fig. 498. (Mus. Cuming.)

This little triangular shell, of which the figure is very highly magnified, proves to be the extreme young of B. mediae (B. solitarius, Hutton) Pl. XLVII. Sp. 301, from Western Himalaya.

For Sp. 498. see Pl. LXX.

Species 499. (Mus. Cuming.)

Bulimus ventrosus. Bul. testa subpyramidali-conica, minutâ et profunde umbilicata, anfractibus septem, planulato-convexis, peculiariter obscurâ plicato-corrugatis, colurnellâ reflectâ, aperturâ fere circulari, labro simplici; albida, basi nigricante unisectâ.

The Ventricose Bulimus. Shell somewhat pyramidsly conical, minutely and deeply umbilicated, whorls seven in number, rather flatly convex, peculiarly obscurely plicately wrinkled, columella reflected, aperture nearly circular, lip simple; whitish, encircled with a narrow black band at the base.

Helix ventrosa, Féruccia, Prodrome, 377.

Bulimus ventricosus, Draparnaud.

Bulimus conviculi, Hartman.

Helix acuta, Webb and Berthelot.

The narrow black band which encircles the base of this shell is not an unimportant character.
BULIMUS.

PLATE LXX.

Species 498. (Mus. Pfeiffer.)

BULIMUS TRUNCATUS. Bul. testâ attenuato-pyramidâli, basi angulatâ, ad apicem decollatâ, anfractioâ oot, anguâtis, convexis, oblique concentricâ elevato-stratiâs, columnâ rectâ, tellimer expansâ, aperture sub-quadraâ, labro tenuâ; viridescence-corneâ.

The truncate Bulimus. Shell attenuately pyramidal, angled at the base, decollated at the apex, whors eight in number, narrow, convex, obliquely concentricâ very closely elevated striated, columella straight, thinly expanded, aperture somewhat square, lip thin; greenish horny.

Pfeiffer, Symbolae, vol. i. p. 43.

Hab. Mexico.

This remarkable species, for the loan of which I am indebted to Dr. Pfeiffer, does not appear to have reached maturity. It is not known to English collectors.

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Species 500. (Pl. Achatina, XVI. Fig. 77, Mus. Cuming.)

BULIMUS CLAVA. Bul. testâ subulâtâ, apico papillari, hauâ umbilicâtâ, anfractioâ decem, larviâs, pulpitis, hic illic longitudinaliter impresso-stratiâs, suturis margi-natis, columnâta tenui, parva reflexa, apertureâ paret-moneâ, labro simplici; pellucido-corneâ.

The Club Bulimus. Shell subulate, papillary at the apex, not umbilicated, whors ten in number, smooth, polished, here and there longitudinally impressly striated, sutures margined, columella thin, but little reflected, aperture rather small, lip simple; transparent horny.

Hab. ——

The columella of this species is extremely thinly reflected, and the outer lip is rather inclined to be situated at the upper part.

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Species 501. (Pl. Achatina, XVII. Fig. 81. Mus. Cuming.)

BULIMUS CEREAUS. Bul. testâ subulâtâ, umbilicâtâ, tenui, anfractioâ decem, convexis, arcuratis concentricâ striatiâs, columnâ reflexa, apertureâ paret-moneâ, labro simplici; pellucido-stratiâs.

The waxen Bulimus. Shell subulate, umbilicated, thin, whors ten in number, convex, arcuately concentricâ striated, columella reflected, aperture small, lip simple; transparent straw-colour.

Hab. Moradabad, India.

I venture to distinguish this from the B. gracilis, from which, in comparison with authentic specimens collected by Mr. Benson, it varies in form, the whors being of a more bubble-like inflated growth.

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Species 502. (Pl. Achatina, XVIII, Fig. 95. Mus. Cuming.)

BULIMUS COLUMELLA. Bul. testâ subulâtâ, hauâ umbili-câtâ, apico papillari, anfractioâ decem ad duodecim, minutissimâ obliquitâ striatiâs, ad suturas subtilior crenu-latis, columnâta vis reflexa, apertureâ paretâ, labro simplici; pellucido-corneâ.

The little column Bulimus. Shell subulate, not umbilicated, papillary at the apex, whors eleven to twelve in number, very minutely obliquely striated, finely crenulated at the sutures, columella but little reflected, aperture small, lip simple; transparent horny, shining.


Hab. Brazil.

This approaches very closely to the B. sylvaticus. It is a transparent turreted shell, very finely striated and delicately puckered at the sutures.

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Species 503. (Pl. Achatina, XX. Fig. 113. Mus. Cuming.)

BULIMUS JAMAICENSIS. Bul. testâ subulâtâ, anguâtâ, hauâ umbilicâtâ, anfractioâ decem, planiconvexis, hie illic impresso-stratiâs, columnâta tellimer reflexa, apertureâ paretâ, labro simplici; pellucido-corneâ.

The Jamaica Bulimus. Shell subulate, narrow, not umbilicated, whors eight in number, flatly convex, here and there impressly striated, columella thinly reflected, aperture very small, lip simple; transparent horny.

Hab. Jamaica.

An extremely bright transparent shell in which the columellar axis of the whors is visible throughout.

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July, 1849.
BULIMUS.

Plate LXXI.

Species 513. (Mus. Cuming.)

BULIMUS SCITULUS. Bul. testá subsusiformi-oblongá, via umbilicatá, anfractibus octo, leviter convexis, levibus, colunellâ parum reflexá, aperturâ subangustâ, labro simplici; albidâ, purpuro-carnéolâ tinctâ, basi versus ferrugineo-rufâ, lineâ subtilissimâ albis, irregulariter undulatis, crebris et longitudinaliter notatâ.

The trim BULIMUS. Shell somewhat fusiformly oblong, scarcely umbilicated, whorls eight in number, slightly convex, smooth, columella but little reflected, aperture rather narrow, lip simple; whitish, stained with purple-blue, rust-red towards the base, very closely longitudinally marked with fine, irregularly waved, white lines.

Hab. Chachapoyas, Alto-Peru.

Neatly marked with fine white waved lines upon a purple-blue ground, tinged towards the base with a bright rust-red.

Species 514. (Mus. Cuming.)

BULIMUS CUZCOENSIS. Bul. testá acuminato-oblongá, subcylindraceó, subcompressâ umbilicatâ, anfractibus octo, leviter convexis, sub lente striatâ et corrugato-indentatis, colunellâ reflexâ, aperturâ parvisculturâ, labro simplici; fulvoscervo-papillosâ.

The Cuzco BULIMUS. Shell acuminately oblong, somewhat cylindrical, rather compressly umbilicated, whorls eight in number, slightly convex, beneath the lens striated and indicated in a wrinkled manner, columella reflected, aperture rather small, lip simple; light fulvous bay.

Hab. Cuzco, Bolivia; W. Lobb.

Of a delicate nankeen colour throughout.

Species 515. (Mus. Cuming.)

BULIMUS PRETEXTUS. Bul. testá acuminato-oblongá, subcylindraceó, subcompressâ umbilicatâ, anfractibus octo, leviter convexis, levibus vel obsoctâ indentatis, colunellâ latissimâ reflexâ, aperturâ parvisculâ, labro simplici, paulum reflexo; lactá, carneo nodulâtâ, maculis rotundatis albidos prominentem floccatâ, lineâ minutis albidis undulatâ longitudinaliter crebris et notâtâ, apice fuscescentia.

The LACED BULIMUS. Shell acuminately oblong, somewhat cylindrical, rather largely umbilicated, whorls eight in number, slightly convex, smooth or obscurely indented, columella very broadly reflected, aperture rather small, lip simple, a little reflected; cream-colour, clouded with blue, promiscuously flaked with round whitish spots, and very closely longitudinally marked with minute waved whitish lines, apex tinged with light rusty-brown.

Hab. Andes of Caxamarca, Peru; W. Lobb.

A delicate blue-clouded shell, sprinkled with a few white lines, which are irregularly waved and sometimes ramified like veins.

Species 207. (Pl. LXXI. Fig. 207, b, and Pl. LXXII. Fig. 207, c. Mus. Cuming.)

BULIMUS LABEO. It is with much gratification that I am enabled to give an original figure of the Bulimus labeo, illustrated at Pl. XXXV, from a figure in the Zoological Journal. This shell, from the Cumingian collection, which I take to be identical with the lost specimen, is of a lighter olive colour, but has a similar narrow dark band beneath the sutures, the columella is similarly plicately twisted, the lip is less thickened but of the same rich purple-black enamel, destitute, however, of the opake bubble-like dots, which are of seldom specific importance.

It was collected by Mr. Lobb at Limabamba, Peru; a district seldom visited by travellers, and the same in which Lieut. Mawe obtained the original specimen.

Species 516. (Mus. Cuming.)

BULIMUS LOBBI. Bul. testá subcylindraceo-oblongá, compressâ umbilicatâ, aperturâ versus suboblique tumidâ, anfractibus octo, leviter convexis, levibus vel obsoctâ indentatis, columellâ latâ expansâ, aperturâ obliquâ suffusa, labro reflexo; alba, villis longitudinalibus fuscescentibus et purpuro-cestans irregulariter conspicuâ pictâ, pone labrum et aperturâ funce purpuro nigricantia.

LOBBI'S BULIMUS. Shell somewhat cylindrically oblong, compressly umbilicated, rather obliquely swollen towards the aperture, whorls eight in number, slightly convex, smooth or obscurely indented, columella broadly expanded, aperture obliquely effused,
lip reflected; white, conspicuously irregularly painted with longitudinal light-brown and purple-chestnut ribands, interior of the aperture and behind the lip purple-black.

_Hab._ Banks of the Maranon near Balsas, Peru (on branches of a species of _Jatropha_); W. Lobb.

This fine species is of a delicate cream-white, striped longitudinally by distinct ribands of light brown and dark purple chestnut, without any of intermediate tint. Immediately behind the lip there is more of the dark purple-chestnut, approaching to black, and the interior of the aperture is coloured with the same, having a somewhat metallic hue.

I have the pleasure to name it in honour of Mr. Lobb, botanical collector of Messrs. Veitch & Son, the eminent nurserymen of Exeter, to whose zeal in the pursuit of natural history, the species of this, and the two following plates, bear honourable testimony.

**Species 517. (Mus. Cuming.)**

**Bulimus purpuratus.** _Bul._ testá subacuminato-ovata, complessì unbilicatá, anfractibus sex, convexis, longitudinaliter rugoso-corrugatis, ad suturas plicato-crenatis, anfractu ultimo venticosiusculo, columellá reflexá, labro simplici; purpureo-fuscá, lineis albidis hic illic longitudinaliter interruptá, basi et aperture fave albidá.

**The purple-stained Bulimus.** Shell somewhat acuminately ovate, compressly umbilicated, whorls six in number, convex, longitudinally rugosely wrinkled, plicately crenated at the sutures, last whorl rather ventricose, columnella reflected, lip simple; purple-brown, longitudinally interrupted here and there with whitish lines, white at the base and within the aperture.

_Hab._ Andes of Caxamarca, Peru; Mr. W. Lobb.

A rather stout rough shell, stained with dark purple-brown.
BULIMUS.

PLATE LXXII.

Species 518. (Mus. Cuming.)

**BULIMUS RHODOLARYNX.** *Bul. testa acuminato-ovata; basin versus obliquè ventricoso, ampliter umbilicata, anfractus septem ad octo, subrotundatis, laviosus, sub lente striis obliquis elevatis usulis et spiralis incisis minoribus decussatis, apertura suborbicularis, columna latè labròque latè reflexis; rose-albicante, intus purpureo-rosea.*

_The red-throat BULIMUS._ Shell acuminately ovate, obliquely ventricose towards the base, largely umbilicated, whorls seven to eight in number, somewhat rounded, smooth, minutely decussated, beneath the lens, with slightly raised oblique strie and engraved spiral ones, aperture nearly orbicular, lip and columnella broadly reflected; rose-white, interior purple-rose.

_Hab._ Banks of the Aparimao, Alto-Peru; W. Lobb.

Distinguished by its very delicate purple-rose interior, the colour of which is seen through the substance of the shell.

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Species 519. (Mus. Cuming.)

**BULIMUS DECUSATUS.** *Bul. testa acuminato-oblonga, basin rotundate, subcylindracee, compressè umbilicata, anfractus octo, lineae convexae, longitudinaliter corynato-striatis, ad suturas subcrenulatis, columna latè reflexa, labro tenue, simplici; pallide straminee, striis brevissimis rectis, columna deciduis, obliquè umbilicata, latè reflexa, lineis irregularis, integrae, reniforme, integrae, lineis irregularis, cum columnella, extus roseo-albicante, intus purpureo-rosea, peculiariter notata._

_The decussated BULIMUS._ Shell acuminately oblong, rounded at the base, somewhat cylindrical, compressely umbilicated, whorls eight in number, slightly convex, longitudinally striated in a wrinkled manner, slightly wrinkled at the sutures, columnella broadly reflected, lip thin, simple; light straw-colour, peculiarly marked with short red-brown longitudinal and oblique streaks crossing over each other in bands.

_Hab._ Andes of Caxamarca, Peru; W. Lobb.

Singularly characterized by the bands of short brown streaks, ranging obliquely in the direction opposed to the lines of growth.

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Species 520. (Mus. Cuming.)

**BULIMUS MYRISTICUS.** *Bul. testa acuminato-oblonga, basin suboblique rotundate, compressè umbilicata, anfractus octo ad novem, planulato-convexis, longitudinaliter striatis, infra suturas subcrenulatis, columna latè reflexa, labro simplici; albida, viitis irregularibus costatis et fuso-crenulatis confection longitudinaliter picta._

_The nutmeg BULIMUS._ Shell acuminately oblong, somewhat obliquely rounded at the base, compressely umbilicated, whorls eight to nine in number, rather flattly convex, longitudinally striated, slightly crenulated beneath the sutures, columnella broadly reflected, lip simple; whitish, closely longitudinally painted with irregular chestnut and pale brown ribbons.

_Hab._ Andes of Caxamarca, Peru; W. Lobb.

This differs but little from the preceding species in form and detail of sculpture; yet there is a marked distinction in the style of painting.

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Species 521. (Mus. Cuming.)

**BULIMUS ALTO-PERUVIANUS.** *Bul. testa acuminato-ovata, ternicata, ampliter compressè umbilicata, aperturam versus obliquè ventricoso, inflato, anfractus septem, convexae, apicem versus crebrinè elevato-striatis, striis spiralibus incisis sub lente minùs decussatis, columna latè verticaliter reflexa, apertura obliquè suborbicularis, labro efluso, non reflexo; fusco-crenulato, apicem versus caro-lescens, lineis costatis subdistantibus irregulariter longitudinaliter natalis, maculis brevisimis contrarioribus obliquè bifasciatis picta, macularum serie unica infra suturas._

_The Alto-Peruvian BULIMUS._ Shell acuminately ovate rather thin, largely compressely umbilicated, obliquely ventricose towards the aperture, inflated, whorls seven in number, convex, very closely crenately striated towards the apex, minutely decussated, beneath the lens, with engraved spiral stripe, columnella broadly vertically reflected, aperture obliquely suborbicular, lip effused, not reflected; fulvous cream-colour, bluish towards the apex, irregularly longitudinally marked with rather distant chestnut lines, and painted with two bands of spots arranged contrarily obliquely, with a single row of spots also beneath the sutures.

July, 1849.
Hab. Chachapoyas, Alto-Peru; W. Lobb.

The painting of this delicate and boldly convoluted shell is characterized by two bands of short oblong chestnut spots or dashes, ranging obliquely in a direction contrary to that of the painted lines, as in B. Sowerbyi.

Species 522. (Mus. Cuming.)

Bulimus alutaceus. Bul. testa oblongo-ovata, umbilicata, anfractibus septem, convexis, creberrime corrugato-striatis, aperturâ ovali, columellâ reflexâ, labro vix reflexo;

intensè ustulato-castaneâ, zonulis unicus albis medio cingulatis, labro albo.

The leathery Bulimus. Shell oblong ovate, umbilicated, whorls seven in number, convex, very closely corrugately striated, aperture oval, columnella reflected, lip but slightly reflected; very dark burnt chestnut, encircled round the middle with a single white zone, lip white.

Hab. Cuzco, Bolivia; W. Lobb.

The entire surface of this shell is sculptured longitudinally with very closely packed crinkled striae.
Bulimus

Species 523. (Mus. Cuming.)


The Clausilia-like Bulimus. Shell elongately turrit, somewhat cylindrical, sinistral, compressly umbilicated, whorls nine in number, obscurely ribbed round the upper part, longitudinally very closely and very minutely roughly striated, columella vertically reflected, aperture somewhat square, lip simple; mouse-colour.

Hab. Andes of Casamarca, Peru; W. Lobb.

Very like a Clausilia in form, and of a silken aspect, arising out of the very close and minute development of longitudinal striae.

Species 524. (Mus. Cuming.)


The tanned Bulimus. Shell subacuminate-ovate, compressly umbilicated, whorls seven in number, slightly depressed round the upper part, minutely plicately crenulate, columella reflected, aperture rather small, lip simple; light scroched brown within and without, streaked here and there of a darker colour.

Hab. Chachapoyas, Alto-Peru; W. Lobb.

A thin shell approaching in form and colouring to the Bulimus nez, from which it differs in being of a lighter structure and having a more rounded aperture.

Species 525. (Mus. Cuming.)

Bulimus Nigropilatus. Bul. testâ acuminato-ovatâ, subampliâ umbilicatâ, anfractuâ septem, convexis, obtusâ subrugoso-striatis, columellâ verticaliter reflexâ, aperturâ ovali, labro simplici; albidâ, basin versus obscolo fusco-fasciâ, apice nigro.

The black-tipped Bulimus. Shell acuminately ovate, rather largely umbilicated, whorls seven in number, convex, obtusely somewhat roughly striated, columella vertically reflected, aperture oval, lip simple; whitish, obscurely banded with brown towards the base, apex black.

Hab. Chachapoyas, Alto-Peru; W. Lobb.

It is probable from the faintly banded appearance of this shell, that this is but the pale variety of a darker type.

Species 526. (Mus. Cuming.)

Bulimus Poveolatus. Bul. testâ oblongo-ovatâ, tenue, subsubtrigono, labro umbilicatâ, ad apicem obtusâ, anfractuâ quinquâ ad sex, convexa, longitudinaliter obtusâ plicato-striatis, punctis oblongis spiriliter linea-tis escultis, infra suturas plicato-crenulatâ, apice versus peculiariter fasciâ, suturis rudibus, anfracti ultimo obliqui descendente, columellâ tenuâ, depressissimâ, obliquâ recedente, aperturâ oblongo-ovatâ, labro subincassato, vis reflexa; intus obvoido-brunneâ, infra suturas pallidâ unifasciâ, suturis albis, columellâ labroque caruscente-albis, apertura favea iriscente-bilaceae.

The pitted Bulimus. Shell oblong-ovate, rather thin, slightly ventrostal, not umbilicated, obtuse at the apex, whorls five to six in number, convex, longitudinally obtusely plicately striated, spirally engraved with lines of oblong punctures, plicately crenulate beneath the sutures, peculiarly pitted towards the apex, sutures rude, last whorl descending obliquely, columella broad, rather depressed, obliquely receding, aperture oblong-oval, lip somewhat thickened, but little reflected; very dark olive-brown, with a single pale band beneath the sutures, sutures whitish, lip and columella bluish-white, interior of the aperture iridescent lilac.

Hab. Vitoc, near Sarma, Alto-Peru; W. Lobb.

This is the species which Dr. Pfeiffer has assigned to the Bulimus Mahogani, of Sowerby, Coch. Illus. f. 59, of which I can find no description or tidings.

July, 1849.
On comparing the shell under consideration with Mr. Sowerby’s figure, it will be found to be of a more oblong form, more acuminated at the apex, and very peculiarly pitted round the upper sutures, reminding one very much of the indentations in the shells of *Phorus*.

Species 527. (Fig. a. b, Mus. Cuming.)

**Bulimus primularis.** Bul. testa acuminato-ovata, tenui-culata, subventricosa, umbilicata, anfractibus septem, levibus, columnella tenui, reflexa, labro simplici; albidá, basin versus viido lutea, fascis castaneo-nigris quatuor aut pluribus, nonnullis multo interruptis, cingulata.

The primrose-coloured Bulimus. Shell acuminately ovate, rather thin, somewhat ventricose, umbilicated, whorls seven in number, smooth, columella thin, reflected, lip simple; whitish, bright yellow towards the base, encircled towards the base, with four or more chestnut-black bands, some of which are much interrupted.

*Hab.* Chachapoyas, Alto-Peru; W. Lobb.

Of simple structure, but abundantly characterized by its bright primrose colour and dark basal bands.

Species 528. (Mus. Cuming.)

**Bulimus columellaris.** Bul. testa cylindraceo-elongata, haud umbilicata, anfractibus septemdecim ad octodecim, planis, angustis, oblique subobsoleti striatis, anfractu ultimo ad basin subangulato, columnella tortuosa, leviter recedente, apertura subquadratá, ad basin effusa; roseo-albicante, apice versus livido-ceruleo-vero refoveente.

The little-column Bulimus. Shell cylindrically elongated, not umbilicated, whorls seventeen to eighteen in number, flattened, narrow, obliquely rather obsolescently striated, last whorl somewhat angled at the base, columnella twisted, slightly receding, aperture nearly square, effused at the base; pinkish-white, livid blue and red towards the apex.

*Hab.* Andes of Caxamarca, Peru, (under stones at an elevation of 12,000 feet); W. Lobb.

An interesting *Pupa*-like species, distinguished by its square effuse aperture and erect columnar form.
Bulimus, Pl.LXXIV.
BULIMUS.

Plate LXXIV.

Species 529. (Mus. Cuming.)

Bulimus depictus. Bul. testa sub fusiformi-oblonga, vix umbilicata, anfractibus sex, leevibus, vel, sub lente, longitudinaliter tenenstriatis, columnellae reflexae, apertura sub-oblonga, labro simplici; inter-alba, ceratae, eirente longitudinaliter variegata, fasciae duabus angustis in anfractu ultimo prettermittente.
The painted Bulimus. Shell somewhat fusiform oblong, scarcely umbilicated, whorls six in number, smooth, or, beneath the lens, finely striated, columnella reflected, aperture rather oblong, lip simple; yellowish white, longitudinally variegated with blue-green, leaving two narrow bands round the last whorl.

Hab. New Granada.

A prettily painted species collected in the above named locality by Mr. Linden.

Species 530. (Fig a and b, Mus. Philippi.)

Bulimus recluzianus. Bul. testa sub fusiromi-oblonga, vix umbilicata, anfractibus sex, convexis, lineis subtilibus concentricis spiralis inessis, columnellae tenui reflexae, labro simplici; corneo-albida, striatis latissimis irregulares castanei et griseo-viacei ornati.

Reclus's Bulimus. Shell somewhat fusiform oblong, scarcely umbilicated, whorls six in number, convex, closely spirally engraved with fine lines, columnella thinly reflected, lip simple; flesh-white, ornamented with irregular chestnut and grey-violet streaks.
Pfeiffer, Zeitschr. fur Malac. 1847. p. 82.  

Hab. — — ?

A very distinct and characteristic species, for the loan of which I am indebted to Dr. Philippi of Cassel.

Species 531. (Mus. Belcher.)

Bulimus solivagus. Bul. subpyramidali-ovata, crassirasculata, basi subcentrico, hauk umbilicata, anfractibus sex, leevibus, columnellae paulum incrasatae, arcuatae, labro reflexo; intus castaneo-purpurea, epidermide albidae hydrophanus undique indutae.
The wandering Bulimus. Shell somewhat pyramidal ovate, rather thick, slightly ventricose, not umbilicated, whorls six in number, smooth, columnella a little thickened, arched, lip reflected; deep chestnut-purple, covered throughout with a whitish hydrophanous epidermis.

Hab. Philippine Islands; Belcher.

Distinct from any of the species collected in the same locality by Mr. Cuming.

Species 532. (Mus. Cuming.)

Bulimus lilacinus. Bul. testa fusiformi-oblonga, compressum umbilicata, anfractibus septem, convexis, longitudinaliter plicato-striatis, columnellae reflexae, paulum impressed, labro vix reflexo; albida, purpurea itus undique fuscata, columnellae viscid violaceo-purpurea.

The lilac Bulimus. Shell fusiform oblong, compressly umbilicated, whorls seven in number, convex, longitudinally plicated striated, columnella reflected, a little impressed, lip slightly reflected; whitish, banded throughout with violet-purple, columnella deep violet-purple.

Hab. There may be other varieties of this very interesting species. The present is lined interiorly with deep purple bands which have an obscure blackish appearance on the outside.

Species 533. (Mus. Pfeiffer.)

Bulimus Dunkeri. Bul. testa acuminato-oblonga, sub-inflata, umbilicata, anfractibus sex, longitudinaliter rugoso-striatis, lineis spiralis impressis obsoleti rectiulatae, columnellae lati reflexae, apertura ovata, labro tenui, vix reflexo; albida, apodiceo et cinereo-fusco variegata et nebulata.

Dunker's Bulimus. Shell acuminately oblong, slightly inflated, umbilicated, whorls six in number, longitudinally roughly striated, obsoletely reticulated with spiral impressed lines, columnella broadly reflected, aperture oval, lip thin, scarcely reflected; whitish, variegated and clouded with bay and ash-brown.
Pfeiffer, Abbild. und Besch. Bulimus. Pl. 4. f. 10.  

Hab. Mexico.

Mottled and streaked with ash-brown upon a whitish ground, leaving a few light spots or dashes upon the darker parts.

August, 1849.
Species 534. (Mus. Cuming.)

**Bulimus succinctus.** *Bul. testa pyramidalis-conica, crenatisculata, laevibus; albâ, anfractibus fasciis angustis castaneis supra et infra suturis cingulatis, anfractu ultimo infra fasciis inferiori ustulato-castaneis, circa colurnellam intestinore.*

**THE UNDER-GIANT BULIMUS.** Shell pyramidal conical, rather thick, not umbilicated, whorls seven in number, convex, smooth; white, whorls encircled above and below the sutures with a narrow chestnut band, last whorl stained below the lower band with burnt chestnut, darker round the umbilicus.

**Hab.** Philippines.

The loss of its epidermis prevents me from giving a complete description of this species; but the peculiarity of form and colouring abundantly testifies that it is distinct from any hitherto known.

Species 535. (Mus. Cuming.)

**Bulimus ambustus.** *Bul. testa oblongo-ovata, vix umbilicata, anfractibus sex, laevibus, vel, sub lente, creberrimâ striatis, colurnellâ reflexâ, appressâ, recedente, aperturâ subdilatata, labro simplici; albidæ, striis ustulato-fusci, nunc latiscutis, nunc angnatis, irregulariter pictâ.*

**THE SCORCHED BULIMUS.** Shell oblong-ovate, scarcely umbilicated, whorls six in number, smooth, or, beneath the lens, very closely striated, columnella reflected, appressed, receding, aperture slightly dilated, lip simple; whitish, irregularly painted with burnt-brown streaks, some narrow, some rather broad.

**Hab.** ——?

The base of the aperture obtains a slightly dilated form, the receding growth of the columnella.

Species 536. (Mus. Pfeiffer.)

**Bulimus spadiceus.** *Bul. testa globosa-conica, striatis, umbilicata, sex, subplanulata, anfractibus sex, coneo-decussatis, suturis subimpressis, subtilissimâ rugoso-striatis, anfractu ultimo obsolètâ carinato, colurnellâ brevi, late reflexâ, labro simplici; intus rufo-castaneâ, aperture fuscâ iridescente.*

**THE DARK-BAY BULIMUS.** Shell globosely conical, rather thin, umbilicated, somewhat flat at the base, whorls six in number, convexly slanting, sutures rather impressed, very finely roughly striated, last whorl obsoletely keeled, columnella short, broadly reflected, lip simple; deep reddish chestnut, interior of the aperture iridescent.

**Menke, Pfeiffer, Symbolae, vol. iii. p. 17.**

**Hab.** Natal, South Africa (in the woods near the river Unmuss); Krauss.

One of the many interesting new species of shells collected in the vicinity of Port Natal, by the indefatigable Dr. Krauss of Stuttgart.

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**BULIMUS.—PLATE LXXIV.**
BULIMUS.

PLATE LXXV.

Species 538. (Mus. Pfeiffer.)

BULIMUS GASTRUM. Bul. testa obeso-ovata, subcylindraceo-compressa umbilicata, anfractibus sex, conoconvexis, obliquè striatis, columellae brevi, subdilatatæ, aperturâ semiovata, labro plano-reflexo; pellucido-albi, epidermide interoceanò indutâ, suturis opaco-albis.

The swollen BULIMUS. Shell stoutly ovate, somewhat cylindrical, compressly umbilicated, whorls six in number, rather convex, obliquely striated, columella short, rather dilated, aperture semioval, lip flatly reflected; transparent white, covered with a yellowish epidermis, sutures opaque-white.


Hab. Syria.

A swollen Pupa-like species with a small obtuse apex.

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Species 539. (Mus. Pfeiffer.)

BULIMUS BARBARUS. Bul. testâ acuminato-oblongâ, compressâ umbilicata, anfractibus sex, conoconvexis, obliquè striatis, columellae labroque vis reflexis; cornæ, flamnis albidis variegatâ.

The foreign BULIMUS. Shell acuminately oblong, compressly umbilicated, whorls six in number, convex, obliquely striated, lip and columella but slightly reflected; horny, variegated with whitish flames.


Helix barbara, Linneus.

Bulimus Jeanneti, Terver.

Bulimus Teverei, Forbes.

Hab. Algeria.

Although this shell is of a semitransparent horny substance, the opaque grey-white colouring occupies the larger surface.

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Species 540. (Mus. Dunker.)

BULIMUS SOLUTUS. Bul. testâ turrita, lato convolutâ, anfractibus sex, primis quattuor contiguis, ultimis duobus omnino solutâ, longitudinaliter rugoso-spirali, supra et infra angulato-carinatis, cornis lineis impressâ unguque marginatis, aperturâ subquadrate-ovato, labro simplici; griseo-albicante.

The unloosed BULIMUS. Shell turreted, loosely con-voluted, whorls six in number, the first four contiguous, the last two quite unrolled, longitudinally roughly striated, angularly keeled above and below, keels edged on both sides with an impressed line, aperture somewhat squarely ovate, lip simple; greyish-white.

TROSOHL, Zeitschr. fur Malac. 1847. p. 49.

Hab. Peru.

A curious species for which I am indebted to Dr. Dunker, in which the last two whors are unrolled after the manner of a Vermetus.

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Species 541. (Mus. Pfeiffer.)

BULIMUS BERTHELOTII. Bul. testa cylindraceo-oblongâ, compressâ umbilicata, apice obtusâ elevata, anfractibus octo, conoconvexis, obliquè striatis, columellâ late verticatâ dilatatâ, aperturâ latiusculâ, labro lato reflexo; cornis albidis variegatâ.

BERTHELOTI’S BULIMUS. Shell cylindrically oblong, compressly umbilicated, apex obtusely elevated, whorls eight in number, convexly flattened, obliquely striated, columella broadly vertically dilated, aperture rather broad, lip broadly reflected; dead white.

PFEIFFER, Symbols, vol. iii. p. 83.

Hab. Canary Islands.

Very closely allied to the B. EHNENBERGII which, probably owing to some misarrangement, is far removed from this species in Dr. PFEIFFER’S monograph.

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Species 542. (Mus. Dunker.)

BULIMUS RINGENS. Bul. testâ fusiformi-cylindraceâ, compressâ umbilicata, anfractibus octo, laevibus, aperturâ oblongo-quadrateâ, effusâ, compositâ quadridentata; cornae fuscae, cinero-albo striatae et variegatae, aperturâ violaceo-sinigratâ tinctâ.

The Grinning BULIMUS. Shell fusiformly cylindrical, compressly umbilicated, whorls eight in number, smooth, aperture oblong square, effused, conspicuously four-toothed; horny brown, streaked and variegated with ash white, aperture stained with violet black.

DUNKER, Zeitschr. fur Malac. 1847, p. 83.

Hab. Macahe, Brazil.

The aperture is characterized by having four conspi-

July, 1849.
Species 543. (Mus. Pfeiffer.)

**Bulimus Varnensis.** Bul. testa cylindraceo-elongata, solidissima, compressae umbilicatae, anfractibus decem, plano-convexa, oblique irregulariter striata, apertura parviscula, colunellae latoque dilatatae, non reflexae; albâ, integra, fuscuscente, apice nigricante.

The Varna Bulimus. Shell cylindrically elongated, rather solid, compressely umbilicated, whorls ten in number, flatly convex, obliquely irregularly striated, aperture rather small, lip and columella dilated, not reflected; white, brownish within, apex blackish.


Of a clear white, without any indication of marking.

Species 544. (Mus. Pfeiffer.)

**Bulimus membranaceus.** Bul. testa subfusiformi-oblunga, tenue, hyalina, compressae umbilicatae, anfractibus septem, plano-convexa, levibus, sub lento minuto striata, colunellae latè reflexae, depressae, apertura sub-obliqua, labro simplici, paulum effusa; pallide albicans.

The Membranaceous Bulimus. Shell somewhat fusiform-oblong, thin, hyaline, compressely umbilicated, whorls seven in number, flatly convex, smooth, minutely striated beneath the lens, columella broadly reflected, depressed, aperture rather oblique, lip simple, a little effused; transparent white.


A delicate transparent white species, probably inhabiting Central America.

Species 545. (Mus. Pfeiffer.)

**Bulimus Frivaldskyi.** Bul. testa cylindraceo-oblunga, exs compressae umbilicatae, anfractibus novem, planissima, subtilissime oblique striatas, apertura paue, oblique, semiovali, colunellae latoque appressa; pallide-cornuta, crassissima.

Frivalsky’s Bulimus. Shell cylindrically oblong, but slightly compressely umbilicated, whorls nine in number, rather flattened, finely obliquely striated, aperture small, oblique, semi-oval, lip and columella appressed; transparent horny, rather thick.


A small stout horny cylindrical shell of which the surface is rather flattened.

Species 546. (Mus. Pfeiffer.)

**Bulimus compactus.** Bul. cylindraceo-oblunga, solidissima, subcompressae umbilicatae, anfractibus novem ad decem, obliquè irregulariter-striatis, apertura truncato-ovali, tridentata; opaco-albère, fuscescente pallide striata, intus subannulatís.

The Compact Bulimus. Shell cylindrically oblong, rather solid, somewhat compressely umbilicated, whorls nine to ten in number, obliquely roughly striated, aperture truncatedly oval, three-toothed; opake-white, faintly streaked with light brown, interior tinged with orange.


A slight contraction of the aperture forms a noticeable feature in this species.

Species 547. (Mus. Pfeiffer.)

**Bulimus trichodes.** Bul. testa acuminato-oblunga, tenue, umbilicatae, anfractibus octo, subtilissima granulato-striata, apertura ovale, colunella reflexae, labro simplici; olivaceo-cornuta, lineis opaco-albis longitudinatìs nattati, pilis brevissimis obisatís.

The Hairy Bulimus. Shell acuminately oblong, thin, umbilicated, whorls eight in number, very finely granu- latedly striated, aperture oval, colunella reflected, lip simple; olive-horny, longitudinally marked with opake white lines, covered with very short hair.


Distinguished by its peculiar hairy covering.
BULIMUS.

Plate LXXVI.

Species 548. (Mus. Cuming.)

**Bulimus Burchellii.** Bul. testæ acuminato-ovatæ, virum umbilicatæ, anfractibus octo, levibus vel rude obsoletæ striatis, columellæ breviset reflexæ, labro simplici; albido, fasciæ succinæ pallide striatæ.

Burchell's Bulimus. Shell acuminately ovate, scarcely umbilicated, whorls eight in number, smooth or rudely obsoletely striated, columella shortly reflected, lip simple; whitish, faintly streaked with brown.


*Hab. Taboo, Cape Palmas (near the sea-shore).*

The interrupted line encircles the whors at about the middle, the two bands are round the lower part, the lower band being concealed in all but the last whorl.

Species 551. (Mus. Cuming.)

**Bulimus obliquus.** Bul. testæ subpyramidali-ovatæ, umbilicatæ, crassineculæ, ad basin oblique productæ, anfractibus septem ad octo, levibus, aperturâ obliquâ, columellæ labroque latâ dilatatis; pallide rosaceâ, anfractu ultimo fasciâ castaneâ unico cingulato.

The oblique Bulimus. Shell somewhat pyramidally ovate, umbilicated, rather thick, obliquely produced at the base, whors seven to eight in number, smooth, aperture oblique, lip and columella broadly dilated; light pink, with a single chestnut band round the last whorl.

*Hab. Bahia,*

A pink shell of firm structure, encircled with a conspicuous chestnut band round the last whorl.

Species 552. (Mus. Cuming.)

**Bulimus rugatus.** Bul. testæ acuminato-ovatæ, umbilicatæ, anfractibus septem, levibus, vel sub lente, minuta striatæ, columellæ reflexæ, labro simplici; pallide stramineâ, fasciâ angustâ nigricante-castaneâ linæaque interrupçtæ cingulatæ, anfractu ultimo fasciâ brunis cingulato.

The shrivelled Bulimus. Shell somewhat acuminately ovate, umbilicated, whors seven in number, rather ventricose, finely and very closely longitudinally shrivelled, aperture somewhat squareli sinuated, columella reflected, lip a little dilated; olive.

*Hab.——?*

Chiefly distinguished by its finely shrivelled surface.

Species 553. (Mus. Cuming.)

**Bulimus gelidus.** Bul. testæ acuminato-ovatæ, subampliter umbilicatæ, anfractibus octo, convexis, subtilis-

August, 1849.
The Icy Bulimus. Shell acuminate ovate, rather largely umbilicated, whorls eight in number, convex, very finely striated, columella broadly reflected, lip simple; transparent white, longitudinally marked with numerous lines of opake white.

Hab. Central America?

Somewhat of a bluish-white tinge, characterized with opake white longitudinal lines.

Species 554. (Mus. Cuming.)

Bulimus cunctator. * Bul. testá subabbreviato-ovátá, hand unumbilicatá, infernè ventricatá, anfractibus quinque, convosís, levítus, columellá recta, labro sub-incrassato, non reflexó; purpuro-costáneo, epidermide albida hydrophaná longitudinaliter striatá, intus ovato-albida.

The Lotterer Bulimus. Shell somewhat abbreviately ovate, not umbilicated, ventricose round the lower part, whorls five in number, convex, smooth, columella straight, lip slightly thickened, not reflected; purple-chestnut, streaked longitudinally with a white hydrophanous epidermis, interior bluish.

Hab. Philippine Islands; Belcher.

This species, collected by Capt. Sir Edward Belcher during the voyage of the Samarang, is quite distinct from any of the same group discovered by Mr. Cuming.

Species 555. (Mus. Cuming.)


The Feeble Bulimus. Shell somewhat globose ovate, umbilicated, whorls six in number, rounded, longitudinally rugosely striated, columella reflected, lip simple; chalk-white, irregularly painted with bands of short rusty-brown lines, interior of the aperture violet.

Hab. ——?

Very delicately tinged with orange and purple violet in the aperture

Species 556. (Mus. Cuming.)

Bulimus ovulum. Bul. testá ovátá, crassiscutá, umbilicatá, anfractibus sex, convosís, levítus, vel obscure striatá, columellá incrassatá, latá reflexá, labro reflexó; intus extusque eburneát.

The Little Egg Bulimus. Shell ovate, rather thick, umbilicated, whorls in number, convex, smooth, or obscurely striated, columella thickened, broadly reflected, lip reflected; ivory white within and without.

Hab. Philippine Islands; Cuming.

A shell of rather solid growth, without any appearance of colouring.

Species 557. (Mus. Cuming.)

Bulimus fidustus. Bul. testá acuminate-ovátá, tenui-culátá, via umumbilicatá, anfractibus septem, longitudinaliter minútæ et creberrimè striatá, columellá breviter reflexá, labro tenui, simplici; intus luteo-alba, castaneo latifasciátá, epidermide tenui cornél politá indutá.

The Faithful Bulimus. Shell acuminate ovate, rather thin, scarcely umbilicated, whorls seven in number, longitudinally minutely and very closely striated, columella shortly reflected, lip thin, simple; yellowish white, broadly banded with chestnut, covered with a thin polished horny epidermis.

Hab. Sumbudai, New Granada; Funck.

An interesting species from New Granada, which does not appear to have been described.
BULIMUS.

PLATE LXXVII.

Species 558. (Mus. Cuming.)

BULIMUS COAGELATU. Bul. testa ovata, tenue, ventricosa, vis umbilicata, anfracitus quinque, obscurè longitudinaliter plicato- striatis, columna reflexa, labro simplici; corneo-fusco- ventro, pellucida, opaco-albo peculiariter undato- rectilinata.

The curdled BULIMUS. Shell ovate, thin, ventricose, scarcely umbilicated, whors five in number, obscurely longitudinally plicate striated, columna reflected, lip simple; transparent horny brown, peculiarly reticulated in a waved manner with opaque white.

Hab. Peru.

A light inflated shell distinguished by a peculiarly mottled opake net-work.

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Species 559. (Mus. Cuming.)

BULIMUS UMBRATICUS. Bul. testa acuminato-ovata, vis umbilicata, anfracitus sex, longitudinaliter subtillissimæ creberrimè elevato-striatis, columnella breviter reflexa, labro tenue, simplici; pellucido-albo, prope apicem fusco-ventro striata.

The slight BULIMUS. Shell acuminately ovate, scarcely umbilicated, whors six in number, longitudinally very finely elevated striated, columna shortly reflected, lip simple; transparent white, streaked with pale brown near the apex.

Hab. Central America.

It is possible that this may be a light variety of a species of more colour from the indications of marking near the apex.

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Species 560. (Mus. Cuming.)

BULIMUS EXORNATUS. Bul. testa acuminato-ovata, tenue, vis umbilicata, anfracitus octo, convexus, levibus, columnellæ breviter reflexi, aperturæ parvisculi, labro simplici; pellucido-fusco, lineis longitudinalibus opaco-albis profusè striatæ.

The well-trimmed BULIMUS. Shell acuminately ovate, thin, scarcely umbilicated, whors eight in number, convex, smooth, columna shortly reflected, aperture rather small, lip simple; transparent brown, profusely streaked with longitudinal opaque white lines.

Hab. Chilon, Bolivia (under dead trunks of Ceci); Bridges.

Of transparent horny texture, neatly marked with longitudinal opaque-white lines.

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Species 561. (Mus. Benson.)

BULIMUS MAVORTIUS. Bul. testa acuminato-ovata, vis umbilicata, anfracitus septem, convexus-decussibus, levibus, vel, sub tenæ, tenuistriatis, columnellæ breviter reflexæ, labro simplici; pallide striatæ, sparsem nigro-punctatæ, lineis purpurascens ad suturas, anfracut ultimo conusibus duobus rosacesci cinctato, columna interosse rosacea, apice purpureo-nigriscante.

The martial BULIMUS. Shell acuminately ovate, scarcely umbilicated, whors seven in number, convexly slanting, smooth, or, beneath the lens, finely striated, columna shortly reflected, lip simple; pale straw-colour, sprinkled here and there with black dots, and with a purple line round the sutures, last whorl encircled with two narrow pinkish zones, columna deep pink, apex purple-black.

Hab. Ceylon?

An extremely characteristic species, of which I have been favoured with two specimens from the collection of Mr. Benson.

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Species 562. (Mus. Cuming.)

BULIMUS IGNAVUS. Bul. testa oblongo-ovata, subprofunè umbilicata, anfracitus septem, columnatis, longitudinaliter subtillissimæ striatis, columnellæ latæ, subreflexæ, labro simplici; sordidè castæ.

The sluggish BULIMUS. Shell oblong-ovate, rather deeply umbilicated, whors seven in number, rounded, longitudinally very finely striated, columna broad, slightly reflected, lip simple; dirty horn colour.

Hab. Central America.

A thin horny shell with the whors somewhat rounded and rather deeply umbilicated.

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Species 563. (Mus. Cuming.)

BULIMUS LIMENSIS. Bul. testa acuminato-ovata, subprofundè umbilicata, anfracitus septem, longitudinaliter creberrimè elevato-striatis, striis irregularibus, sub-plicatis, columnellæ reflexæ, labro simplici; pallide ferrugineo-fusca.

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August, 1849.
BULIMUS.—PLATE LXXVII.

The Lima Bulimus. Shell acuminately ovate, rather deeply umbilicated, whorls seven in number, longitudinally very closely elevatedy striated, striae irregular, subacute, columella reflected, lip simple; pale rusty brown.

Hab. Lima and Quito, South America.

This is allied to the B. scalariformis, but does not agree with any of the varieties of that species.

Species 564. (Mus. Benson.)

Bulimus Sylheticus. Bul. subacuminato-oblonga, solido-euneulata, sinistralis, umbilicata, anfractibus sex, levibus, columella labroque subincrassatis, dilatato-reflexis; labro simplici, columella labroque pallidioribus.

The Sylhet Bulimus. Shell somewhat acuminately oblong, rather solid, umbilicated, whorls six in number, smooth, lip and columella rather thickened, dilately reflected; bright yellow, lip and columella paler.

Hab. Sylhet, Eastern Himalaya; Benson.

Having very much the aspect of a young or dwarf specimen of B. citrinus, it might easily be confounded with that species.

Species 565. (Mus. Cuming.)

Bulimus mollicellus. Bul. testa subcylindraceo-oblonga, vix umbilicata, suturis subconstrictis, anfractibus sex, subtilissimis irregulariter striatis, ad suturas leviter crenulatis, columella reflexa, apressa, apertura paulo contracta, labro simplici; pallide corneum; pallide corneum:

The delicate Bulimus. Shell somewhat cylindrically oblong, scarcely umbilicated, sutures rather constricted, whorls six in number, very finely irregularly striated, slightly crenulated at the sutures, columella reflected, appressed, aperture a little contracted, lip simple; transparent white, covered with a thin straw coloured epidermis.

Hab. ——?

A delicate small species certainly distinct from any hitherto described.

Species 566. (Mus. Cuming.)


The transparent Bulimus. Shell acuminately oblong, very thin, not umbilicated, whorls six in number, very finely irregularly striated, columella very thinly reflected, lip simple; transparent horny.

Hab. ——?

Of as light and delicate a structure as any Lymnea.

Species 567. (Mus. Cuming.)

Bulimus nigrilineatus. Bul. testa conico-ovata, ventricosa, tenuissima, labrumbilicata, anfractibus sex, levibus, vel sub lente, tenuissimi striatis, colunellae tenuiter reflexae, labro simplici; stramineis lineis nigrofuscis fasciatis.

The black-lined Bulimus. Shell conically ovate, ventricose, rather thin, not umbilicated, whorls six in number, smooth, or, beneath the lens, very finely striated, columella thinly reflected, lip simple; pale straw-colour, banded with black-brown lines.

Hab. ——?

The bands round the upper part of the whorls are somewhat lighter than those round the lower.
**BULIMUS.**

**PLATE LXXVIII.**

Species 568. (Mus. Cuming.)

**BULIMUS LATIREFLEXUS.** Bul. testâ acuminato-cylindraceâ, subobseâ, semipellucidâ, compressâ umbilicatâ, anfractibus octo, oblique creberrinâ picato-striatis, infra suturas lineâ marginatis, columellâ latâ, verticali, aperture suborbiculari, labro latâ reflexo; fulvescente-cornê, labro opaco-albïdâ.

The broadly-reflected Bulimus. Shell acuminately cylindrical, rather stout, semitransparent, compressely umbilicated, whorls eight in number, obliquely very closely plicately striated, edged with a line beneath the sutures, columnella broad, vertical, aperture nearly orbicular, lip broadly reflected; fulvous horny, lip opake fulvous-white.

_Hab._ Muscat?

Mr. Cuming has every reason to believe that this fine species is from Muscat, Arabia.

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Species 569. (Mus. Benson.)

**BULIMUS CERATINUS.** Bul. testâ acuminato-oblongâ, tenui, compressâ umbilicatâ, anfractuosis sex ad septem, convexia, subobscuro irregulariter sulcato-striatâ, columnellâ latâ verticaliter reflexâ, aperture parvisculâ, suborbiculari, pellucido-cornê.

The intricately Bulimus. Shell acuminately oblong, thin, compressely umbilicated, whorls six to seven in number, convex, somewhat obscurely irregularly striated in a grooved manner, columnella broadly vertically reflected, aperture rather small, nearly orbicular; transparent horny.

_Benson, MSS._

_Hab._ Almorah, Kennaon, Western Himalaya; Capt. Boys.

Distinguished from _B. montanus_, to which it is next allied, by its delicate transparent texture and absence of granules.

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Species 570. (Mus. Benson.)

**BULIMUS RUFIGRISTRIGATUS.** Bul. testâ cylindraceo-oblongâ, compressâ umbilicatâ, anfractibus octo, plano-convexis, levisâ, ad suturas lineâ cremulatis, apertura parvisculâ, suborbiculari; fulvo-cornê, opaco-albo irregulariter tenisirigâtê.

The red-streaked Bulimus. Shell cylindrically oblong, compressely umbilicated, whorls eight in number, flately convex, smooth, minutely crenulated at the sutures, aperture rather small, nearly orbicular; fulvous horny, irregularly finely streaked with opake-white.

_Benson, MSS._

_Hab._ At the base of the lower range of the Himalaya, between the rivers Jumna and Sutlej; Hutton.

Communicated to Mr. Benson by Capt. Hutton with the title _Pupa striata_, of which the specific name is occupied in the present genus.

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Species 571. (Mus. Benson.)

**BULIMUS BENSONI.** Bul. testâ acuminato-ovalâ, hand umbilicatâ, anfractibus octo, transversâ minutâ et creberrinâ striatâ, striis subtilissimis granulâtis, peculiariter corrugato-undulatis, columnellâ teuncialâ, leviter conoïdâ, labro viro reflexo, violaceoalbâ, purpura-cornê variegatâ, fasciis albis duobus tribus, maculis interne purpureis sogittalis notatis, cingulâtâ, columnellâ castaneo-fusco.

_Benson's Bulimus._ Shell acuminately ovate, not umbilicated, whorls eight in number, transversely minutely and very closely striated, stripe very finely granulated, peculiarly corrugately waved, columnella rather thin, slightly twisted, lip scarcely reflected; violet-tinged white, variegated with purple-brown, encircled with two or three white bands marked with deep purple arrow-head spots, columnella chestnut brown.

_Hab._ Banks of the river Amazon.

This fine species, which I have the honour to name after a gentleman who has afforded me much valuable information on the _Bulimi_ of Bengal, Afghanistan and North Western India, is closely allied in general aspect to the _B. zebra_. Its chief point of difference consists in the minute waved-striated semigranular sculpture which characterises the entire surface of the shell, whilst the design of painting is marked by the presence of two white bands, painted with dark purple arrow-head spots, pointing towards the lip.

September, 1849.
Fig. 572.

As this species belongs more properly to *Achatina*, the reader is referred to Plate XXI. of that genus for description. For *Bulimus* Sp. 572, see Pl. LXXX.

Species 573. (Mus. Benson.)


The hermit *Bulimus.* Shell cylindrically oblong, rather deeply umbilicated, whors eight in number, convex, obscurely rather irregularly striated, aperture obliquely produced, columella broad, lip a little expanded; bluish-white.

Benson, MSS.

*Hab.* Afghanistan; Hutton.

Collected by Capt. Hutton on his march with Shah Shuja's force from the Bohn Pass to Cabul, during the recent operations of the British Army in India.

Species 574. (Mus. Benson.)

*Bulimus rusticus.* Bul. *testá ovatá, solidiusculát, umbilicata, spirá obtusá, anfractibus quinque ad seé, convexis, laxibus, columellá plano-incurvata, subcalloso, quasi dentatá, aperture obliquá, labro reflexo; castaneo-brunneá, circa columnam obscure fusciatá, albida versus apicem, columellá latoque albis.

The simple *Bulimus.* Shell ovate, rather solid, not umbilicated, spine obtuse, whors five to six in number, convex, smooth, columella flatly thickened, rather callous, as if toothed, aperture oblique, lip reflected; chestnut-brown, obscurely banded around the columella, white towards the apex, lip and columella white.


*Hab.* Eastern Java.

I am indebted to Mr. Benson for an authentic example of this species, received from M. Mousson. It is, however, impossible to describe it satisfactorily, owing to the shell having lost its epidermis, which, to judge by analogy, would afford important characters.

The author notices having a number of dead specimens in his possession, collected in Eastern Java, and remarks, that it is the only representative hitherto found in that island, of the richly clad group, comprising *B. pythogaster* and its congener, inhabiting the Philippines.

Species 575. (Mus. Benson.)


Boys' *Bulimus.* Shell cylindrically oblong, sinistral, scarcely umbilicated, whors eight in number, convex, rather coarsely striated, very finely plicated at the sutures, minutely decussated beneath the lens with spiral lines; hornly brown, variegated with waved opake-white lines.

Benson, MSS.

*Hab.* Kenson, Western Himalaya; Boys.

Named by Mr. Benson in honour of Capt. Boys, to whom we are indebted for this and many interesting species collected in North Western India.

Species 576. (Mus. Benson.)

*Bulimus Chersonesicus.* Bul. *testá acuminato-cylindraceó, sinistráli, compressó umbilicatá, anfractibus octo, convexis, subobscure rugoso-striatis, columnellá latá, verticali; ceruleoscent-albá, fulvescente hic illic pallide tinctá, aperture subtilius albidá, lineis decussatis approximátá.

The *Crimea* *Bulimus.* Shell acuminately cylindrical, sinistral, compressely umbilicated, whors eight in number, convex, somewhat obscurely coarsely striated, columnella broad, vertical; bluish-white, faintly tinged here and there with light brown, interior of the aperture light orange.


*Hab.* Crimea, Southern Russia.

This is one of the list of species unknown to Dr. Pfeiffer. The specimen here figured from the collection of Mr. Benson was received from Mr. Sowerby with the above name in 1834.

Species 577. (Mus. Cuming.)

*Bulimus Conulus.* Bul. *testá conico-ovatá, vix umbili- catá, anfractibus septem, rotundatis, obscure subtilissimè striatis; semicircularis, rotundata.

The little cone *Bulimus.* Shell conically ovate, scarcely umbilicated, whors seven in number, rounded, obscurely very finely striated; transparent brown.

*Hab.* Port Natal, South Africa.

Very thin and transparent, of a conical form rather broad at the base.
BULIMUS.

Species 578. (Mus. Cuming.)

Bulimus polygyratus. Bul. testa pyramidal-turrida, minutè umbilicate, anfractibus novem ad decem, sub-anthusia, rotundatis, subtiliter plicato-atriatis, columna reflexa, aperturâ parvâ, labro simplici; cavum subniveo-albo.

The many-whorled Bulimus. Shell pyramidally tur- reted, minutely umbilicated, whorls nine to ten in number, rather narrow, rounded, finely plicately striated, columella reflected, aperture small, lip simple; bluish-white.

Hab. Caraccas; Sal. l.

Very like the first species of this plate, B. polygyratus, though smaller and differing in form.

Species 581. (Mus. Cuming.)

Bulimus Tunetanus. Bul. testa oblongo-ovata, hyalinâ, sub-Partulaformi, compressâ umbilicate, anfractibus sex, tumidiusculis, obliquè subtilissimè striatis, columna latâ, expansâ, aperturâ ovata, superne callousitate parvâ, labro reflexo; hyalino-italic, labro opaco-albo.

The Tunis Bulimus. Shell oblong-ovate, hyaline, somewhat Partula-shaped, compressly umbilicated, whorls six in number, rather swollen, obliquely very finely striated, columella broad, expanded, aperture ovate, with a small callosity at the upper part, lip reflected; hyaline white, lip opaque-white.

Hab. Tunis; Capt. Spratt.

A delicate transparent shell, though of comparatively solid growth, and with the lip reflected, reminding one of the Partula hyalinâ.

Species 582. (Mus. Cuming.)

Bulimus contiguus. Bul. testâ elongato-cylindrâceo, haud umbilicate, anfractibus novem, plani-convescis, levisibus, politis, ad suturas extitis impresso-crenulatis, columna latâ, verticali, aperturâ minutâ, margines incrassatis, reflexis, supra callo junctis; umberâ.

The closely-convoluted Bulimus. Shell elongately cylindrical, not umbilicated, whorls nine in number, flatly convex, smooth, polished, faintly impressly crenulated at the sutures, columella broad, vertical, aperture minute, margins thickened, reflected, joined above by a callosity; ivory-white.

Hab. Island of Socotra.

A very characteristic closely convoluted polished shell, with a peculiarly small aperture.

September, 1849.
BULIMUS.—PLATE LXXIX.

Species 583. (Mus. Benson.)

**Bulimus obtusus.** Bul. testa cylindraceo-oblonga, umbilicata, opice peculiariter abbreviata, anfractibus septem ad octo, subplane-convexis, obliquè striatis, columella arcuata, aperturâ pares, suborbiculatâ, labro tenui reflexo; ceruleo-albus.

**The obtuse Bulimus.** Shell cylindrically oblong, not umbilicated, peculiarly abbreviated at the apex, whorls seven to eight in number, rather flatly convex, obliquely striated, columella arched, aperture small, nearly orbicular, thinly reflected; bluish-white.

Pfeiffer, Symbolae, vol. i. p. 54. and vol. ii. p. 119.

*Pupa obtusa,* Draparnaud.

*Helix (Cochlodota) obtusa,* Férussac.

*Pupa Germanica,* Lamarck.

Hab. Australia.

Chiefly distinguished by the peculiar sinking of the first few whorls.

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Species 584. (Mus. Cuming.)

**Bulimus Euboeus.** Bul. testa acuminato-oblonga, chrysalideaformis, compressâ umbilicata, anfractibus novem, plano-convexis, minutissimâ striatis, suprâ marginatis, aperturâ pares, fortiter tridentata, supra callositate, labro subreflexo; fuscescente-cornis, deutibus labroque opaco-allis.

**The Euboean Bulimus.** Shell acuminately oblong, chrysalis-shaped, compressly umbilicated, whors nine in number, flatly convex, very minutely striated, edged round the upper part, aperture small, strongly three-toothed, with a callousity above, lip slightly reflexed; fulvous horny, teeth and lip opaque-white.

Hab. Euboea; Capt. Spratt.

Unusually strongly toothed for so small a species.

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Species 585. (Mus. Cuming.)

**Bulimus nanus.** Bul. testa subelongata, umbilicata, anfractibus octo, convexis, subtilissimâ striatis, striis infra suturas subplicatis, columella verticali, aperturâ pares, labro simplici; cinerescente, striis fuscescentibus hic illic obscurâ notatâ, opice fusco.

**The dwarf Bulimus.** Shell rather elongated, umbilicated, whors eight in number, convex, very finely striated, striae slightly plicated beneath the sutures, columella vertical, aperture small, lip simple; pale ash-colour, obscurely marked here and there with light brown streaks, apex brown.

Hab. Chili.

A small turreted shell very faintly marked with brownish streaks and with a dark-brown apex.

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Species 586. (Mus. Cuming.)

**Bulimus macilentus.** Bul. testa acuminata, basi sub-oblunga, umbilicata, tenuissimâ, anfractibus sex, levibus, politis, vel sub leve subtilissimâ concentricâ striatis, suprâ minutâ marginatis, columellâ viâ reflexâ, aperturâ oblongo-ovata, labro tenui; virescente, vitreâ.

**The lean Bulimus.** Shell acuminated, rather oblong at the base, not umbilicated, very thin, whors six in number, smooth, polished, or beneath the lens, very finely concentrically striated, minutely edged round the upper part, columella only slightly reflected, aperture oblong-ovate, lip thin; greenish, glassy.

Hab. Philippine Islands; Cuming.

A very transparent, greenish, glassy shell, of which the last whor is rather oblong-inflated.

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Species 587. (Mus. Benson.)

**Bulimus sorgegatus.** Bul. testa ovato-conica, subpyramidales, basi tumidissimâ, umbilicata, anfractibus septem, convexis, oblique striatis, columellâ latâ, verticali, aperturâ pares, rotundâ, labro tenui; sordido cornis.

**The alien Bulimus.** Shell ovately conical, somewhat pyramidal, rather swollen at the base, umbilicated, whors seven in number, convex, obliquely striated, columella broad, vertical, aperture small, rounded, lip thin; dull horny.

Benson, MSS.

Hab. Simla, Western Himalaya.

Distinguished from most of the Himalayan species by its conical form.
Species 572. (Mus. Benson.)

**Bulimus laterribicolus.** Bul. testā acuminato-oblongā, compressā umbilicatā, anfractūs sex, subrotundātis, levibus, vel concentricī striatis; pellucido-streamātī, politātī.

The **lurcher Bulimus.** Shell acuminately oblong, compressely umbilicated, whors six in number, somewhat rounded, smooth, or concentrically striated; transparent straw-colour, polished.

Benson, MS.

Hab. Landour, Western Himalaya.

A very delicately coloured transparent species, obtained by Mr. Benson in the lower Himalaya range, at elevations varying from 4,000 to 7,000 feet.

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Species 588. (Mus. Pfeiffer.)

**Bulimus nitidulus.** Bul. testā subacuminato-oblongā, solidiscudā, compressā umbilicatā, anfractūs quinquē ad sex, rotundātā, striatūs, politīs, sūtorīs constrictīs, columellā latiusculā, expansā; cinnaomonee-corncdē.

The **shining Bulimus.** Shell somewhat acuminately oblong, rather solid, compressely umbilicated, whors five to six in number, rounded, finely striated, polished, sutures constricted, columella rather wide, expanded; cinnamon horn-colour.

Pfeiffer, Wiegman's Archives, 1839, vol. i. p. 352.

Hab. Matanzas, Island of Cuba.

A small shining cinnamon-brown shell.

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Species 589. (Mus. Pfeiffer.)

**Bulimus Antoni.** Bul. testā ovato-conicā, compressā umbilicatā, anfractūs quinquē ad sex, convexissculis, levibus, colunellā subreflexā; pellucido-corendē.

Anton's **Bulimus.** Shell ovately conical, compressely umbilicated, whors five to six in number, rather convex, smooth, columella slightly reflected; transparent horn.


**Strobilus oblongus,** Anton.

Hab. Island of Opara.

An extremely small species, of a dull transparent horn substance.

---

Species 590. (Mus. Cuming.)

**Bulimus Scalaioidees.** Bul. testā subulatā, cix umbilicatā, anfractūs decimā, rotundātūs, levibus, vel concentricī striatis; pellucido-streamātī, politātī.

The **Scalaioidee Bulimus.** Shell subulate, scarcely umbilicated, whors eleven in number, rounded, very closely plicately ribbed throughout, the ribs being peculiarly sharply compressed, aperture small, rounded, lip simple; dull white.

Hab. Canary Islands?

Distinguished by the very sharply compressed structure of the ribs, which range longitudinally as in *Scalaioium*.

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Species 591. (Mus. Cuming.)

**Bulimus Glomeratus.** Bul. testā conico-subulatā, haud umbilicatā, anfractūs novem, rotundātūs, levibus, sūtorīs constrictīs, apertūrā suborbiculāre, labro simpli; pellucido-corncdē.

The **coiled Bulimus.** Shell conically subulate, not umbilicated, whors nine in number, rounded, smooth, sutures rather constricted, aperture nearly orbicular, lip simple; transparent horn.

Hab. ——?

Of a peculiar conical subulate form, of many whors.

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Species 592. (Mus. Benson.)

**Bulimus Decorticatus.** Bul. testā subulatā, solidiscudā, cix umbilicatā, anfractūs octo, concentricī sub-rudē plicato-striatis, colunellā tenui, reflexā, apertūrā paraeissculendā, oblonga-ovalā, labro tenui; sordide virente-cento-corncdē.

The **decocted Bulimus.** Shell subulate, rather solid, scarcely umbilicated, whors eight in number, concentrically rather rudely plicately striated, columella thin, reflected, aperture rather small, oblong-oval, lip thin; dull greenish horn.

Hab. Macao, China; Dr. Cantor.

A shell of rather solid growth, longitudinally sculptured throughout with rude plicate striae.

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December, 1849.
Fig. 593.

The shell here figured, inadvertently, is the B. Pupoides, already published at Pl. XXXVIII. Sp. 231.

For Sp. 593, see Pl. LXXXIV.

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Species 594. (Mus. Pfeiffer.)

**Bulimus gracillimus.** *Bul. testa subulatâ, gracili, haud umbilicatâ, anfractibus septem ad octo, planulatis, medio leviter constrictis, longitudinaliter acutâ costatis et striatis, suturis impressis, colunellâ subincrassatâ, aperturâ parvâ, labro simplici; sordide solid.*

**The very slender Bulimus.** Shell subulate, slender, not umbilicated, whorls seven to eight in number, rather flattened, slightly contracted in the middle, longitudinally sharply ribbed and striated, sutures impressed, columnella a little thickened, aperture small, lip simple; dead white.

Pfeiffer, Symbolæ, vol. iii. p. 64.

*Bulimus striato-costatus*, D’Orbigny.

**Hab.** Cuba.

Originally described by Dr. Pfeiffer in Wiegman’s Archives as an *Achatina*.

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Species 595. (Mus. Benson.)

**Bulimus clavulinus.** *Bul. testa acuminate-oblongâ, vis umbilicatâ, basis versus subventricosâ, anfractibus sex, convexis, levibus, colunellâ tenuâ reflexâ, aperturâ ovâtâ, labro tenui; pellucido-stramineâ, vitreâ.*

**The little nail-like Bulimus.** Shell acuminate oblong, scarcely umbilicated, rather ventricose towards the base, whorls six in number, convex, smooth, columnella thinly reflected, aperture ovate, lip thin; transparent straw-colour, glassy.

Potiez and Michaud, Gal. de Douai, p. 136. pl. 14. f. 9, 10. **Hab.** Moka, Isle of France (on woody banks); Benson.

If this shell is Potiez and Michaud’s *B. clavulinus*, which I believe it is, Dr. Pfeiffer is wrong in quoting it as synonymous with *B. Goodalli*.

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Species 596. (Mus. Pfeiffer.)

**Bulimus harpa.** *Bul. testâ ovato-conicâ, tenui, subventricosâ, vis umbilicatâ, anfractibus quatuor, rotundatis, concentricâ nitide costellato-striatis, aperturâ rotundâ, labro simplici; pellucido-brunnœd.*

**The harp Bulimus.** Shell ovately conical, thin, rather ventricose, slightly umbilicated, whorls four in number, rounded, concentrically neatly sculptured with rib-like striae, aperture rounded, lip simple; transparent brown.

Pfeiffer, Zeitschr. für Malac., 1847, p. 147. **Hab.** —?

A minute but extremely interesting species, partaking somewhat of the typical form of *Cyclostoma*.
BULIMUS.

PLATE LXXXI.

Species 597. (Mus. Taylor.)

BULIMUS BIVITTATUS. Bul. testá pyramidati-ovata, basin versus obliquë, umbilicata, anfractibus octo, levis, ad suturas peculiariter crenulatis, aperture obliquë, ovata, columnellá labroque lati reflexis et effusi; alba, anfracta utinam castaneo pallide bifasciata.

The TWO-PILLED BULIMUS. Shell pyramidal ovate, oblique towards the base, umbilicated, whorls eight in number, smooth, peculiarly crenulated at the sutures, aperture obliquely ovate; lip and columella broadly reflected and effused; white, last whorl faintly two-banded with chestnut.

SOWERBY, Conchological Illustrations, f. 46.

Hab. Near Merida, Andes of Bolivia.

Effused in an oblique direction at the base, after the manner of the B. auris-leporis.

Species 598. (Mus. Taylor.)

BULIMUS MULIEBRIS. Bul. testá acuminato-oblonga, umbilicata, tenuicula, anfractibus septem, subrueda, subtilissimæ striatæ, columnellæ reflexæ, aperture ovata, labro simplici; albidæ, striis angulari fuscis, hic illic saturatiobus, undique longitudinaliter pictæ.

The EFFEMINATE BULIMUS. Shell acuminate oblong, umbilicated, rather thin, whorls seven in number, somewhat rudely very finely striated, columella reflected, aperture ovate; lip simple; whitish, longitudinally painted throughout with narrow brown streaks which are here and there darker.

Hab. New Granada.

A light delicately painted species, finely rudely striated.

Species 599. (Mus. Cuming.)

BULIMUS BOLIVIANUS. Bul. testa acuminato-oblonga, compressæ umbilicata, anfractibus septem, tenuis aut minime decussatis impresso-striatis, columnellæ contorto-plicatæ, latissimæ depressio-dilatatæ, aperture ovata, labro simplici; carneo-roseo-purpureo fuscatis, fuscis latis, confertis, hic illic interruptis, columnellæ rubellæ, opice rubro.

The BOLIVIAN BULIMUS. Shell acuminate oblong, compressely umbilicated, whorls seven in number, smooth or very minutely decussated with impressed striæ, columella plicately twisted, very broadly depressed, aperture ovate, lip simple; flesh-white, banded with purple-brown, bands broad, close-set, here and there interrupted, columnella reddish, apex red.

PFEIFFER, Pro. Zool. Soc., 1846, p. 34.

Hab. Near Merida, Andes of Bolivia.

The shell here represented is the original type of the species described by Dr. Pfeiffer. To that which I have mistaken for it at Pl. XLIV. Sp. 281, the name B. annulatus may be given. The species are truly distinct, as may readily be seen by an accurate comparison of the figures.

Species 600. (Mus. Taylor.)

BULIMUS PATRICIUS. Bul. testa pyramidati-oblonga, subampliter compressæ umbilicata, anfractibus octo, oblique subrueda striatæ, aperture parvisculata, ovata, columnellæ labroque late reflexis; albidæ, refuscens-purpureo subobscure interruptæ fasciata, apertura fuscæ roseo-purpureæ.

The PATRICIAN BULIMUS. Shell pyramidal oblong, rather largely compressely umbilicated, whorls obliquely somewhat rudely striated, aperture rather small, ovate, lip and columella broadly reflected; whitish, rather obscurely interruptedly banded with reddish-purple, interior of the aperture rose-purple.

Hab. — ?

This fine species is probably from New Granada, but I have no authority for stating it to be the locality.

Species 601. (Fig. a, b, c, Mus. Taylor.)

BULIMUS SPECTATUS. Bul. testæ fusiformi-ovata, vis umbilicata, tenuicula, anfractibus sex ad septem, longitudinaliter subrueda tenuistriatæ, columnellæ reflexæ, depressinula, aperture ovata, labro peculiariter effuso; albidæ et cinereo-fuscescentæ variæ strigatæ aut fasciata, columnellæ et apertura fuscæ roseo-purpureæ.

THE CHOICE BULIMUS. Shell fusiformly ovate, scarcely umbilicated, rather thin, whorls six to seven in number, longitudinally somewhat rudely finely striated, columella reflected, rather depressed, aperture ovate, lip peculiarly effused; whitish or ash-brown, varie-

December, 1849.
BULIMUS.—PLATE LXXXI.

Bulimus Tayloranus. Bul. testa ventricoso-oblonga, tenui, inflata, sub umbilicata, anfractibus quinque, longitudinaliiter obscurc plicato-striatis, ad suturas later circulatis, sub lecte undique minusissimi granulatis, anfractu ultimo valde macinio, peculiariter descendente, columella tenissima, refexa, labro vis reflexo; tunicaco-fusca, semipellucid, lines perpangic nigris apicem versus fulguratis, columella labroque roseo tincta.

Hab. New Granada.

Taylor's Bulimus. Shell ventricosely oblong, thin, inflated, not umbilicated, whorls five in number, longitudinally obscurely plicately striated, slightly granulated at the sutures, very minutely granulated throughout beneath the lens, last whorl very much the largest, peculiarly descending, columella very thin, reflected, lip scarcely reflected; chestnut-brown, semipellucid, lightning-marked towards the apex with a few black lines, lip and columella tinged with rose.

Hab. Environs of Quito.

A delicate inflated species of a dark transparent brown colour, marked with dark zigzag lines near the apex, and having the thin lip and columellar edge tinged with rose.

Being indebted to Thomas Lombe Taylor, Esq., for the species, I have the pleasure to name it in honour of that distinguished collector.

Species 603. (Mus. Cuming.)

Bulimus sinistralis. Bul. testa subacuminato-oblonga, crassiuscula, sinistrali, vis umbilicata, anfrac-

tibus septem, subrotundatis, oblique striatis, columella reflexa, aperturâ parvisculâ, labro reflexo; latâ, olivaceo-viridii marmoral, aperturâ fuso intus fusca, labro albo.

The Sinistral Bulimus. Shell somewhat acuminately oblong, rather thick, sinistral, scarcely umbilicated, whorls seven in number, somewhat rounded, obliquely striated, columella reflected, aperture rather small, lip reflected; yellow, marbled with olive-green, interior of the aperture very dark brown, lip white.

Hab. Java.

Care should be taken not to confound this species with the green variety of B. levis, elevated to the rank of a species by Mousson, under the name B. furcillatus, from which it is certainly distinct.

Species 604. (Mus. Taylor.)

Bulimus albizonatus. Bul. testa subpyramidalis-conicis, basi depressiiscula, vis umbilicata, anfractibus septem, plano-convexis, oblique tennissimi, suturâ plicari-iter lineari-incisis, anfractu ultimo bari angulato, columella latâ reflexa, aperturâ parvisculâ, labro reflexo; intus extusque corneolata-alba, zonâ angustâ opaca-alba ad angularis anfractis ultimis.

The White-zoned Bulimus. Shell somewhat pyramidal conical, rather depressed at the base, scarcely umbilicated, whorls seven in number, flatly convex, obliquely finely striated, sutures peculiarly linearly engraved, last whorl angiled at the base, columella broadly reflected; bluish white within and without, having a narrow opake white zone at the angle of the last whorl.

Hab. Ceylon.

A pale blue-white shell, remarkably characterized by a narrow opake-white zone round the middle of the whorls, exactly in the place of the suture, concealed in all but the last whorl by the superposition of one whorl upon the other.
The allied Bulimus. Shell globosely ovate, very ventricose, not umbilicated, whorls six in number, very minutely granulated throughout, obscurely radiately finely ribbed towards the apex, columella slightly twisted, reeding at the base, lip rather thickened, reflected; brown, with a pale band beneath the sutures, covered with an olive horny epidermis, lip and columella white.

Sowerby, Conch. Illustrations, f. 102.

Hab. Brazil.

Constantly distinguished by its broad rudely swollen form, and light band beneath the sutures.

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Species 608. (Mus. Cuming.)

Bulimus adoptus. Bul. testa subelongato-oblung, crassiuscula, haud umbilicata, anfractibus quingue ad sex, longitudinaliter umbre striatis, ad suturas subtiliter plicato-crenulatis, columellae increasatae, peculiariter late depressae, aperturam ovata, labro crusias reflexo; olivaceo-fusco, apicem versus pallide flammatum.

The adopted Bulimus. Shell somewhat elongately oblong, rather thick, not umbilicated, whorls five to six in number, longitudinally somewhat rudely striated, finely plicately crenulated at the sutures, columella thickened, peculiarly broadly depressed, aperture ovate, lip thickly reflected; olive-brown, palely flamed towards the apex.

Hab. Banks of the Orinoco.

Allied in form to B. Funckii, from which it may be recognised by its colouring and pattern of light flames.

---

Species 609. (Mus. Cuming.)

Bulimus caliginosus. Bul. testa oblongo-ovata, haud umbilicata, anfractibus sex, oblique tarde striata, columellae late reflexa, appressa, aperturam ovata, labro simplici; cinerea vel albicante, ferrigineo-fusco irregulare striata-lincata.

The darkened Bulimus. Shell oblong-ovate, not umbilicated, whorls six in number, obliquely rudely striated, columella broadly reflected, appressed, aperture ovate, lip simple; ash-colour or whitish, irregularly stained in a streaked manner with rusty brown.

Hab. —?

There is little of character to distinguish this species, although it is not referable to any hitherto described.

December, 1849.
BULIMUS.

PLATE LXXXIII.

Species 610. (Mus. Hamilton.)

Bulimus Hamilton. Bul. testa acuminato-turrītā, umbilicatā, spire suturrī profundī impressīs, anfractibus septem ad octo, subrotundatis, rudis plicato-striatis, apertūrā purā, columellā labroque simplicibus; sordidū alba, apice rubra.

Hamilton’s Bulimus. Shell acuminately turrited, umbilicated, sutures of the spire deeply impressed, whorls seven to eight in number, somewhat rounded, rudely plicately striated, aperture small, lip and columella simple; dead white, apex red.

Hab. Near the Lake of Titicaca, Bolivia.

This interesting little species was collected by Mr. Pentland on the mountains in the environs of the Lake of Titicaca, which is 14,000 feet above the level of the sea. It may be distinguished by its characteristic red apex.

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Species 611. (Mus. Hamilton.)

Bulimus gibber. Bul. testa oblongo-turrītā, sinistrālī, compressū unumbilicatā, anfractibus septem ad octo, convectionusculīs, rufous-striatis, ad suturās subūbiliār mar- ginātis, columellā dilatatā, apertūrā purā, labro paululum reflexo; lacteā.

The gibbous Bulimus. Shell oblong-turreted, sinistral, compressely umbilicated, whorls seven to eight in number, slightly convex, roughly striated, finely margined at the sutures, columella dilated, aperture small, lip a little reflected; cream-colour.


Bulimus revolutus, Ziegler.

Hab. European Tartary.

The first three species of this plate are somewhat enlarged.

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Species 612. (Mus. Belcher.)


The ordinary Bulimus. Shell cylindrically turreted, compressely unumbilicated, whorls eight in number, obliquely impressly striated, sutures impressed, columella vertically dilated, aperture small, somewhat squarely ovate, lip a little reflected; transparent horny.


Hab. Sarawak, Borneo.

The oblique striae are extremely superficial, and the shell is of a very thin horny substance.

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Fig. 613. (Mus. Hamilton.)

This interesting shell, with a delicate purple-coloured aperture, proves to be a variety of B. strigatus, Sp. 250.

For Sp. 613, see Pl. LXXXV.

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Species 614. (Mus. Hamilton.)

Bulimus pentlandi. Bul. testa acuminato-ovātā, basi subobscure, vix umbilicatā, anfractibus sex, irregulariter rudis striatis, columellā reflexā, apertūrā orbiculari-ovātā, labro simplici; sordide olivacea, epidermide indentā.

Pentland’s Bulimus. Shell acuminately ovate, rather inflated at the base, scarcely umbilicated, whors six in number, irregularly rudely striated, columella reflected, aperture orbicularly ovate, lip simple; dull olive, covered with an epidermis.

Hab. Near the Lake of Titicaca, Bolivia.

This and the B. rubricatus were the only species found by Mr. Pentland on the mountains in the vicinity of the Lake of Titicaca, at the same lofty elevation.

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Species 615. (Mus. Taylor.)

Bulimus fucatus. Bul. testa acuminato-ovātā, basi subobliquē effuso, vix umbilicatā, anfractibus sex, obscūrō striatis, ad suturās subcrenulātīs, columellā reflexā, apertūrā ovātā, labro effuso, vix reflexo; fucoscentē, carno-vaio-icterico, subobscūrō striato-tintō, columellā labroque pallide roseā.

The dyed Bulimus. Shell acuminately ovate, rather obliquely effused at the base, scarcely umbilicated, whors six in number, obscurely striated, slightly crenulated at the sutures, columella reflected, aperture ovate, lip effused, scarcely reflected; light brown.

December, 1849.
somewhat obscurely stained with streaks of blue-black, lip and columella pale rose.

_Hab._ Sebundoi, New Granada.

Distinguished by its elegantly effused growth. The dark painting is somewhat obscure and has a mottled appearance.

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**Species 616. (Mus. Cuming.)**

**BulimusLetus.** _Bul._ testâ acuminato-oblongâ, _vis_ umbilicata, _aufractibus_ sex, _laxibus_ vel _tenuistratis_, _columellâ_ reflexa, _apressâ_, _aperturâ_ ovalâ, _labro_ _reflexâ_; _castaneo-castaneâ_, _luteo-vascularis_, _umbilicata_, _columellâ_ _labroque_ _roseâ._

The CHEERFUL _Bulimus._ Shell acuminately oblong, scarcely umbilicated, whorls six in number, smooth or finely striated, columella reflected, appressed, aperture ovate, lip scarcely reflected; chestnut-fawn colour, encircled by two narrow yellowish-white zones, lip and columella rose-pink.

_Hab._ Sebundoi, New Granada.

From the same locality as the preceding species, and very closely allied; it differs, however, in form. Mr. Taylor has a specimen collected independently of this, of exactly similar pattern and colour.

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**Species 617. (Mus. Cuming.)**

**Bulimus occultus.** _Bul._ testâ _cylindraceo-fusiformi_, _basi_ _angustâ_ _compressâ_, _umbilicata_, _aufractibus_ _novem_, _plano-convexis_, _ad suturas_ _superficialiter_ _canaliculatis_, _aperturâ_ _anfractu-oblungâ_, _tridentatae_, _labro_ _tenui_, _effuso_; _pellucidâ-albae_, _ad Umbilicam_ _alque_ _pone_ _labrum_ _nigricante-castaneâ_ _tinctâ._

The CONCEALED _Bulimus._ Shell cylindrically fusiform, narrowly compressed at the base, slightly umbilicated, whorls nine in number, flatly convex, superficially channelled at the sutures, aperture squarely oblong, three-toothed, lip thin, effused; transparent white, stained with dark chestnut at the umbilicus, and behind the lip.

_Hab._ Brazil.

Allied in form and general aspect to _B. Bahiensis_, but differing materially in the character of the aperture.

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**Species 618. (Mus. Taylor.)**

**Bulimus quinquedentatus.** _Bul._ testâ _cylindraceâ_, _crassissimâ_, _basi_ _compressâ_ _umbilicatae_, _aufractibus_ _octo_, _plano-convexis_, _obliquis_ _tenuistratis_, _aperturâ_ _pareâ_, _coarctatae_, _quinque-vel_ _sex-dentatâ_, _labro_ _plano-incrassatu_; _cornu-ovarieâ_, _dentibus_ _labroque_ _albis._

The FIVE-TOOTHED _Bulimus._ Shell cylindrical, rather thick, base compressly umbilicated, whorls eight in number, flatly convex, obliquely finely striated, aperture small, contracted, five- or six-toothed, lip flatly thickened; horny olive, teeth and lip white.

PFEIFFER, Symbole, vol. i. p. 54.

_Pupa quinquedenta._ Mühlfeldt.

_Hab._ Dalmatia.

A shell of rather solid cylindrical growth, with the aperture much contracted.

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**Species 619. (Mus. Benson.)**

**Bulimus pretiosus.** _Bul._ testâ _cylindraceo-ovatâ_, _compressâ_ _umbilicatae_, _aufractibus_ _laxibus_ _tenuistratis_, _columellâ_ _late_ _verticaliter_ _dilatatae_, _aperturâ_ _perviolatae_, _suborbiculari_, _labro_ _tenui_ _reflexi_; _pellidi cornæ_, _pellicidâ_, _striis_ _opaceo-albis_ _numerolis_ _vedatâ._

The PRECIOUS _Bulimus._ Shell cylindrically ovate, compressly umbilicated, whorls smooth or finely striated, columella broadly vertically dilated, aperture rather small, nearly orbicular, lip thinly reflected; pale horny, transparent, waved with numerous opaque-white streaks.

_Cantor, MS._

_Hab._ Field of Chillianwala, India (found on _Mimosa_ bushes on the banks of the Jhelum); Cantor.

An extremely delicate and interesting species, allied to _B. rufistrigatus_, from which it differs slightly in form, but most distinctively in pattern. Mr. Benson, to whom it was communicated by Dr. Cantor, informs me that it was collected during the late campaign of the British army in the Punjab, on the plain of Chillianwala, the locality of Lord Gough’s dearly purchased victory.
Bulimus, Pl LXXXIV.
BULIMUS.

PLATE LXXXIV.

Species 593. (Mus. Adams.)

BULIMUS OCTONOIDES. Bul. testa subelongata, spire suturas impressas, anfractibus septem, superficie rotundatis et concentricè impresso-striatis, columellâ tenuè reflexâ, apertura parce, labro simplici; pallide striato-fuscescente.

THE OCTONOID BULIMUS. Shell somewhat elongated, sutures of the spire impressed, whorls seven in number, rounded at the upper part and concentrically impressly striated, columella thinly reflected, aperture small, lip simple; light straw-colour, diaphanous.


Named to denote its general resemblance with the B. octonius, which is referred to Achatina.

I am indebted for eight of the species of this plate to the kindness of Mr. C. B. Adams, Professor of Zoology, &c., in Amherst College, Massachusetts. They were collected during an excursion in Jamaica, in company with the Honourable Mr. Chitty, Chairman of Quarter Sessions in that Island, together with a number of interesting land shells of other genera, which Mr. Adams is preparing for publication in a periodical pamphlet form, under the title of 'Contributions to Conchology.'

Species 620. (Mus. Adams.)

BULIMUS TERRIELLA. Bul. testa subglobosus, anfractibus octo, convexisusculis, concentricè impresso-striatis, columellâ tenuè reflexâ, apertura parce, labro simplici; pallide striato-fuscescente.

THE LITTLE AUGUR BULIMUS. Shell subulate, whorls eight in number, rather convex, concentrically impressly striated, columella thinly reflected, aperture small, lip simple; dull brownish.

ADAMS, MS. Hab. Jamaica.

This is the most elongated form of the Jamaica type, of light diaphanous growth, concentrically impressly striated. It is very minute, and, with the rest of the species of this plate, considerably magnified.

Species 621. (Mus. Cuming.)

BULIMUS GOODALLII. Bul. testa conico-elongatâ, vix umbilicatâ, anfractibus septem, convexisusculis, levibus, columnellâ subcontortâ, tenuè reflexâ, apertura parce, labro simplici; pallide striato-fuscescente.

GOODALL'S BULIMUS. Shell conically elongated, scarcely umbilicated, whorls seven in number, gradually convex, smooth, columella somewhat twisted, thinly reflected, aperture small, lip simple; transparent horny.

Helix Goodallii, Miller, Ann. Phil. 1822, p. 381.

BULIMUS Goodallii, Gray.

Helix (Cochlicella) olivarius, Férussac.

Bulimus clavulatus, Potiez and Michaud.

Bulimus puninus, Pfeiffer.

Hab. West Indies.

This little species, being transported from Jamaica, has become partially naturalized in this country, and is included by some authors in the British fauna. It is found abundantly in the pine-pits at Bristol, especially on the sides of the pots, where they are immersed in the decayed bark.

Species 622. (Mus. Adams.)

BULIMUS MIRABILIS. Bul. testa pyramidati-conicâ, anfractibus octo, rotundatis, superficie squamis grandibus erectis subtilius peculiariter coronatis, columellâ con- torsâ, apertura parce, medio contractâ; carneo-fuscescente.

THE WONDERFUL BULIMUS. Shell pyramidally conical, whorls eight in number, rounded, peculiarly coronated throughout with large erect scales, columella twisted, aperture small, contracted in the middle; light flesh-brown.

ADAMS, MS. Hab. Jamaica.

The whorls in this remarkable species are contracted in the middle, and the upper portion is prominently coronated throughout with broad vaulted scales.

The three following Bulimi of Adams are numbered to belong to Achatina, under which genus the descriptions are given at Pl. XXII.

Species 623. (Mus. Adams.)

BULIMUS MINIMUS. Bul. testa subglobosus, spire suturas subimpressas, anfractibus septem, subrotundatis, con-

December, 1849.
centricè impresso- striati, columnellæ tenè reflexæ, aperturæ parvæ inculæ, labro simplici; pallidè stramined.

The very small Bulimus. Shell subulate, sutures of the spire somewhat impressed, whorls seven in number, somewhat rounded, concentrically impressly striated, columnella thinly reflected, aperture rather small, lip simple; light straw-colour.

Adams, MS.

Hab. Jamaica.

It may be observed that there is a great similarity in the majority of these small Bulinii and Achatine from Jamaica. Though specifically distinct, they are but slight modifications of one typical character,—a diaphanous shell of more or less elongated convolution, with the whorls concentrically impressly striated.

Species 625. (Mus. Benson.)


The mean-looking Bulimus. Shell acuminately oblong, whorls five in number, smooth, slightly impressly striated round the upper part, columnella thinly reflected, aperture ovate, lip simple; dull straw-colour.

Adams, MS.

Hab. Jamaica.

Species 624. (Mus. Adams.)

Bulimus tutulus. Bul. testæ conicæ, basi latiusculæ, compressæ umbilicatæ, anfractibus sex, rotundatis, minutiissimis striatis, columnellæ latæ verticaliter dilatatae, callositate paræ supra, aperturæ ferè rotundæ, labro subreflexo; pallidæ castaneæ, subcornæ, callositate albi.

The little tuft Bulimus. Shell conical, rather broad at the base, compressely umbilicated, whorls six in number, rounded, very minutely striated, columnella broadly vertically dilated, with a small callosity above, aperture nearly round, lip slightly reflected; light chestnut, somewhat horny, callosity white.

Benson, MS.

Hab. Humeerpore, Bundelkund, India; Benson.

This interesting little species is well distinguished by the broad convolution of the last whorl. Only two specimens were found.
Species 613. (Mus. Cuming.)

**Bulimus linostoma.** Bul. testa fusiformi-ovata, compressa umbilicata, tenue, anfractibus sex, levibus, vel sub ute sub minuta striatis, columnaContorta, subplicata et appressa, aperturâ oblique dilatatâ, labro effuso; albâ, flaminis carulescentibus et cineris ornata, aperturâ vivide violaceo-purpureâ.

**The threaded Bulimus.** Shell fusiformly ovate, compressly umbilicated, rather thin, whorls six in number, smooth, or minutely striated beneath the lens, columna twisted, subplicate and appressed, aperture obliquely dilated, lip effused; whitish, ornamented with bluish and ash flames, aperture deep violet-purple.

_Hab._ Province of Santa Cruz, Bolivia.

M. D'Orbigny notices having found this delicately-coloured species in the woods of Santa Cruz, after rain, upon the ground as well as upon trees and shrubs, but in comparative scarcity.

Species 626. (Mus. Cuming.)

**Bulimus lividus.** Bul. testâ acuminato-oblongâ, tenui, viv umbilicata, anfractibus sex ad septem, subrotundatis, sub ute crasserrimâ inciso-striatis, columnellâ tenuâ reflexâ, aperturâ parviscelâ, labro simplici; livido-violete, molla perpauca subquadranthes incurvarioribus infra suturas.

**The livid Bulimus.** Shell acuminately oblong, thin, scarcely umbilicated, whorls six to seven in number, somewhat rounded, very closely engraved with striae, columna thinly reflected, aperture rather small, lip simple; livid olive, with a few somewhat square spots of a darker colour beneath the sutures.

_Hab._ Venezuela.

A thin shell, of a peculiar mottled livid colouring, marked somewhat irregularly with square spots beneath the sutures.

Species 627. (Mus. Cuming.)

**Bulimus Hachensis.** Bul. testâ acuminato-oblongâ, sub-pyramidati, umbilicata, anfractibus septem ad octo, convexus, levibus, nitidis, columnellâ tenuâ reflexâ, ap-

pressâ, aperturâ parviscelâ, labro simplici; intus extusque roso-luteâ.

**The Hachia Bulimus.** Shell acuminately oblong, somewhat pyramidal, slightly umbilicated, whorls seven to eight in number, convex, smooth, shining, columna thinly reflected, appressed, aperture rather small, lip simple; pinkish yellow within and without.

_Hab._ Banks of the Rio Hacha, Guatemala.

A delicate yellow shell, of a peculiarly pyramidal form.

Species 628. (Mus. Cuming.)

**Bulimus reflexus.** Bul. testâ attenuato-ovâ, sub-infatâ, tenui, pellucidâ, anfractibus quinque ad sex, plauviusculâ, substriatis, columnellâ tenui, parvis reflexâ, appressâ, aperturâ oblongâ, labro simplici; pallide cornéa, strigis irregularibus castaneis, interdum ramosis, ornatâ.

**The reflected Bulimus.** Shell attenuately ovate, somewhat inflated, thin, transparent, whorls five to six in number, rather flat, slightly striated, columna thin, but little reflected, appressed, aperture oblong, lip simple; pale horny, ornamented with chestnut streaks, sometimes branched.


_Hab._ Vicinity of Coquimbo (upon leaves of plants); Cuming.

An extremely thin, horny, inflated shell, belonging to the group of which _B. Broderipii_ and _elegans_ are typical examples.

Species 629. (Mus. Cuming.)

**Bulimus nucinus.** Bul. testâ oblongo-ovâ, viv umbilicata, crassisscula, anfractibus quinque ad sex, convexis, minutê granulosis, columnellâ subincrassatam reflexâ, appressâ, aperturâ ovâtâ, labro crasso, simplici; sordide albâ, strigis perpauca rufo-fuscis ornatâ.

**The nut-tree Bulimus.** Shell oblong-ovate, scarcely umbilicated, rather thick, whorls five to six in number, convex, minutely granuled, columna rather thickly reflected, appressed, aperture ovate, lip thick, simple; dull white, ornamented with a few red-brown streaks.

_Hab._ —?

February, 1850.
A stout solid, dull-whitish shell, marked with red-brown longitudinal streaks, having a finely granulated surface. Distinct from B. granulosus, though agreeing with it in general aspect.

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Species 630. (Mus. Cuming.)

**Bulimus balanoides.** *Bul. testa cylindraceo-ovata, solidiuscula, apice obtusa, anfractibus sex, plano-convexis, levis, columnellâ incrassata, reflexâ, aperturâ parvisculata, labro incrassato, reflexo; albidâ, fusciis castaneis duabus cingulatâ, epidermide tenui hydrophanâ indutâ.*

The date-like Bulimus. Shell cylindrically ovate, rather solid, obtuse at the apex, whorls six in number, flatterly convex, smooth, columnella thickened, reflected, aperture rather small, lip thickened, reflected; white, encircled by two chestnut bands, covered with a thin hydrophanous epidermis.


*Hab.* Island of Mindoro, Philippines.

Of solid growth, allied in form to *B. ovoides.*

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Species 631. (Mus. Adams.)

**Bulimus immaculatus.** *Bul. testa acuminato-ovata, via umbilicata, anfractibus sex ad septem, plano-convexis, sub lente minutâ et crebrerrimâ inciso-striatis, columnella tenui reflexâ, appressâ, aperturâ ovata, labro simplici; pallide straminea, circa umbilicâ nitidâ roseâ.*

The unspotted Bulimus. Shell acuminately ovate, scarcely umbilicated, whorls six to seven in number, rather flat, beneath the lens minutely and very closely engraved with strie, columnella thinly reflected, appressed, aperture ovate, lip simple; pale straw-colour, delicate rose about the umbilicus.

**Adams, MSS.**

*Hab.* Jamaica.

An interesting species, for which I am indebted to Mr. Adams, of Jamaica, allied to *B. straminens,* but of rather stouter substance and more acuminated growth.

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Species 632. (Mus. Metcalfe.)

**Bulimus straminens.** *Bul. testa acuminato-ovata, sub-inflata, via umbilicata, anfractibus sex, convexis, sub lente minutissimâ et crebrerrimâ inciso-striatis, columnella reflexâ, appressâ, aperturâ ovata, labro via reflexo; pallide straminea, suturâ indistinctâ albimarginata, apice nigro.*

The straw-coloured Bulimus. Shell acuminately ovate, rather inflated, scarcely umbilicated, whorls six in number, convex, beneath the lens very minutely and closely engraved with strie, columnella reflected, appressed, aperture ovate, lip slightly reflected; transparent straw-colour, sutures indistinctly edged with white, apex black.


*Bulimus flavidus,* Menke.

*Hab.* Island of St. Vincent, West Indies.

A more transparent shell than the preceding, and of more inflated growth.

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Species 633. (Mus. Cuming.)

**Bulimus spretus.** *Bul. testa pyramidalio-convexâ, solidiusculâ, anfractibus sex ad septem, plano-convexis, sub lente minutissimâ decussatâ striatis, columnellâ incrassatâ, aperturâ parvisculata, labro via reflexo; pallide straminea, castaneo-nigricante circa colunellam et aperturâ margineâ, epidermide tenui adustâ basis versus indutâ.*

The disregarded Bulimus. Shell pyramidal convex, rather solid, whorls six to seven in number, flatterly convex, very minutely decussately striated beneath the lens, columnella thickened, aperture rather small, lip slightly reflected; pale straw-colour, chestnut black round the umbilicus and edge of the aperture, covered towards the base with a thin burnt-brown epidermis.

*Hab.* Island of Romblon, Philippines; Cuming.

This species, of which Mr. Cuming collected several species, has been confounded with *B. cincinns,* from which it differs principally in being of a more truly conical form.
BULIMUS.

PLATE LXXVI.

Species 634. (Mus. Cuming.)

BULIMUS MONTANUS. Bul. testá oblongo-cylindraced, tenuiculá, compressé umbilicatá, anfractíbus septem, oblíque subruto striatis et minuitissimé granulátis, ad suturas obscúrè crenulátas, columna verticáli, sublaté dilatatá, aperturá parvissimé, labro subreflexo; palpá costánae, semipellucidá, suturis et apice albídis.

THE MOUNTAIN BULIMUS. Shell oblong-cylindrical, rather thin, compressely umbilicated, whorls seven in number, obliquely somewhat rudely striated and very minutely granulated, obscurely crenulated at the sutures, columnella vertical, rather broadly dilated, aperture rather small, little slightly reflected; pale chestnut, semitransparent, sutures and apex whitish.

Draparnaud, Hist. Moll. p. 74. pl. 4. f. 22.

Bulimus Lackhamensis, Fleming.

Helix Lackhamensis, Montagu.

Bulimus Montacuti, Jeffreys.

Bulimus Collini, Michaud.

Helix boccaeta, Alten.

Hab. Britain, Germany, France, Spain.

A minutely granulated, delicate brown shell, varying a little in size in different localities.

Species 635. (Mus. Metcalfe.)

BULIMUS SEDUCTILIS. Bul. testá oblongo-cylindraced, sinistral, compressé umbilicatá, anfractíbus decem, planiusculis, dense convolutís, columna verticáli, dilatatá, aperturá parvá, bidilatatá; corneo-albílaid.

THE REMOTE BULIMUS. Shell oblong-cylindrical, sinistral, compressely umbilicated, whorls ten in number, rather flattened, thickly convoluted, columnella vertical, dilated, aperture small, two-toothed; horn-yellow.

Pfeiffer, Symbolae, vol. i. p. 85.

Pupa seductilis, Ziegler.

Bulimus Nioo, Pfeiffer.

Hab. Dalmatia, Austria.

A small, cylindrical, sinistral shell, remarkably closely convoluted.

Species 636. (Mus. Metcalfe.)

BULIMUS TRIDENS. Bul. testá oblongá, compressé umbilicatá, anfractíbus septem, planiusculis, subtilis ter striatís, columnellá verticali, dilatatá, aperturá porosá, subquadratá, labro incrassato, subreflexo; corneo-fuscó.

THE THREE-TOOTHED BULIMUS. Shell oblong, compressely umbilicated, whorls seven in number, rather flattened, finely striated, columnella vertical, dilated, aperture small, somewhat square, three-toothed, lip thickened, slightly reflected; horny-brown.

Bruguieré, Enc. Méth. vol. i. p. 360.

Helix tridens, Müller.

Turbo tridens, Gmelin.

Pupa tridens, Draparnaud.

Chondrus tridens, Cuvier.

Jaminea tridens, Risso.

Bulimus varioidentatus, Hartman.

Hab. Germany, France, Austria, Sardinia.

Of a less cylindrical form than the preceding, of fewer whorls, and more horny substance.

Species 637. (Mus. Cuming.)

BULIMUS PUELLARIS. Bul. testá acuminato-ovatá, tenuiculá, subdiapháná, vis umbilicatá, anfractúbus sex, convercis, leváns, sub lente creberrímé et minuitissimé in- ciso-striatis, columnellá tenuá reflexá, aperturá ovatá, labro simplici; exsudá albá.

THE MAIDEN BULIMUS. Shell acuminately ovate, rather thin, somewhat diaphanous, scarcely umbilicated, whorls six in number, convex, smooth, beneath the lens very closely and minutely engraved with striæ, columnella thinly reflected, aperture ovate, lip simple; delicate white.

Hab. Brazil.

An elegantly convoluted semitransparent shell, not referable to any hitherto described species.

Species 638. (Mus. East India Company.)

BULIMUS HARRISII. Bul. testá ovatá, subventricosá, compressé umbilicatá, anfractíbus septem, oblíque creberrimé plicato-striatis, suturís subimpressís, columna lató dilatatá, verticali, aperturá suborbiculári, labro simplici, vis reflexo; sordido albá, nitente.

HARRIS'S BULIMUS. Shell ovate, somewhat ventricose, compressely umbilicated, whorls seven in number, obliquely very closely plicately striated, sutures

February, 1850.
rather impressed, columella broadly dilated, vertical, aperture nearly orbicular, lip simple, scarcely reflected; dull white, shining.

_Hab._ Ankobar, Abyssinia.

Dedicated, at the request of Mr. Benson, to whom I am indebted for calling my attention to this shell in the museum of the East India Company, to the memory of its enterprising discoverer, Sir C. W. Harris.

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**Species 639. (Mus. Cuming.)**

**Bulimus inutilis.** *Bul. testa ovata, tenuicula, umbilicata, anfracibus sex, subventricosis, radque tenuiareiata, columellae dilatata, verticali, aperture ovata, labro simplici; fuscescente.*

The insignificant _Bulimus._ Shell ovate, rather thin, umbilicate, whorls six in number, rather ventricle, rudely finely striated, columella dilated, vertical, aperture ovate, lip simple; light brown.

_Hab._ —?

There is little to characterize this species, of which Mr. Cuming has several specimens, yet it is distinct from any previously described.

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**Species 640. (Mus. East India Company.)**

**Bulimus eous.** *Bul. testa cyindrico-oblonga, obscuticula, compressae umbilicata, anfracibus sex, conico-planis, columellae verticali, latisse dilatata, aperture suborbiculari, producent, marginibus lamina conjuncta; alb.*

The eastern _Bulimus._ Shell cylindrically oblong, rather stout, compressely umbilicate, whorls six in number, convexly flattened, columella vertical, broadly dilated, aperture nearly orbicular, produced, margins joined together by a lamina; white.

_Hab._ Hindoostan.

Collected by Dr. Griffiths, and very closely allied to the species named in honour of that gentleman represented at Sp. 302.

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**Species 641. (Mus. Cuming.)**

**Bulimus Guineensis.** *Bul. testa fusiformi-conica, tenui, sex umbilicata, anfracibus septem, subtilissimae constrictae striatae, striis peculiariter arcuatis, columellae valde contorta, tenuissime reflexa, aperture parvius-

culde, labro simplici, superno simulo; pallide virecente-straminee.*

The _Guinea Bulimus._ Shell fusiformly conical, thin, scarcely umbilicate, whorls seven in number, very finely concentrically striated, striae peculiarly arched, columella much twisted, very thinly reflected, aperture rather small, lip simple, situated at the upper part; pale greenish straw-colour.

_Jonas._ Phil. Abbild. and Besch. Conch. vol. i. p. 54. _Bul._ pl. 1. f. 4.

_Hab._ Guinea.

A very delicate, thin shell, chiefly remarkable for the twisted growth of the columella, and for the sinuated lip, which causes the striae to be formed in curves.

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**Species 642. (Mus. Cuming.)**

**Bulimus tepidulus.** *Bul. testa subpyramidali, compressed umbilicata, anfracibus septem, convexis, levibus, suturis impressis, columellae verticali, aperture parva, labro simplici; sordide alba, apicem versus fuscescens.*

The cool _Bulimus._ Shell somewhat pyramidal, compressely umbilicate, whorls seven in number, convex, smooth, sutures impressed, columella vertical, aperture small, lip simple; dull white, light brown towards the apex.

_Hab._ Canary Islands.

This does not agree with any of the species from the Canary Islands described by Webb and Berthelot.

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**Species 643. (Mus. Cuming.)**

**Bulimus confinis.** *Bul. testa ovata, subventricosa, profunditer umbilicata, anfracibus sex, rotundatis, tenui striatis, columellae latissime dilatatae, subreflexa, aperture orbiculari, labro simplici; pallide coerulea, opaco-albido variegata.*

The borderer _Bulimus._ Shell ovate, rather ventricle, deeply umbilicate, whorls six in number, rounded, finely striated, columella broadly dilated, a little reflected, aperture orbicular, lip simple; transparent horn, variegated with opaque whitish.

_Hab._ Texas, United States.

The locality of this species may be regarded as about the northern limit of the genus in the new world.
Species 644. (Mus. Metcalfe.)

**Bulimus folliculatus.** But. testa abbreviato-cylindraca, compressa umbilicata, apice acuminata, anfractibus rotundatis, tumidis, subtilissimae costatis, suturis impressis, columella verticali, dilatata, apertura subcirculari, marginibus laminarum callous conjunctis; cono-fuscoscula.

**The wheat-husk Bulimus.** Shell abbreviated cylindric, compressely umbilicated, acuminated at the apex, whorls rounded, swollen, very finely ribbed, sutures impressed, columella vertical, dilated, aperture nearly round, with the margins joined by a callous lamina; brown, grey.

**Pfeiffer, Symbolae, vol. iii. p. 83.**

**Carychiina costatum, Hutton.**

**Hab.** Bengal.

Partaking somewhat of the typical form of *B. Gossei* of the West Indies.

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Species 645. (Mus. Metcalfe.)

**Bulimus lubricus.** But. testa oblonga-ovata, apice obtusiuscula, anfractibus sex, convexis, levibus, nitentibus, columellae arcuatula, callosa, vis obsoleta truncata, apertura parva, labro simplici, intus subiacrassato; fuscoscula, vitrea.

**The slippery Bulimus.** Shell oblong-ovate, rather obtuse at the apex, whorls six in number, convex, smooth, shining, columella arched, callous, slightly obsolescently truncated, aperture small, lip simple, slightly thickened within; brownish, glossy.

**Bruguieres, Enc. Méth. vol. i. p. 311. no. 23.**

Helix lubrica, Müller.

Helix subeglyrida, Chemnitz.

Turbo glaber, Da Costa.

*Achatinia lubrica,* Michaud.

Zna lubrica, Leach.

Goniella lubrica, Jeffreys.

*Columna lubrica,* Jan.

*Stygoides lubricus,* Fitzing.

*Bulimus vitens,* Schmidt.

**Hab.** Europe and the British Isles; Massachusetts, North America; Gould.

This is the most abnormal species of the genus, and affects a colder latitude by several degrees than any other. The shell is distinguished by its shining glassy composition and by an inclination in the columella to be truncated, partaking in these respects of the character of the small glossy *Achatina.* Dr. Gould describes having found it in great abundance in the woods of Oak Island, Massachusetts, after a warm October rain, clinging to the fallen leaves, from which they disappeared as the moisture evaporated. It inhabits the British Isles throughout, and has a wide range in Spain, Portugal, Italy, Switzerland, France, and Germany, reaching as far north as Sweden.

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Species 646. (Mus. Cuming.)

**Bulimus Opara.** But. testa subulata, vis umbilicata, spira suturis impressis, anfractibus septem, rotundatis, concentricis striatis, columellae verticaliter tenue dilatata, aperturae parvae, superficii sinuatae, labro simplici; pellucido-vitrata.

**The Opara Bulimus.** Shell subulate, scarcely umbilicated, sutures of the spine impressed, whorls seven in number, rounded, concentrically striated, columella vertically thinly dilated, aperture small, sinuated at the upper part, lip simple; transparent glassy, straw-colour.

**Pfeiffer, Proc. Zool. Soc., 1846, p. 84.**

**Hab.** Island of Opara, Society group (at the roots of plants); Cuming.

A thin, glassy, subulate shell, delicately concentrically striated after the manner of those from Jamaises represented in Pl. 84.

---

Species 647. (Mus. Metcalfe.)

**Bulimus obscurus.** But. testa oblonga, compressa umbilicata, anfractibus septem, convexis, tumidiusculis, obliquè striatis, columellae verticaliter dilatata, aperturae parvae, subanfractu-ovata, obliqua, labro subefusus; costame-fusca.

**The obscure Bulimus.** Shell oblong, compressely umbilicated, whorls seven in number, convex, rather swollen, obliquely striated, columella vertically dilated, aperture small, somewhat squarely ovate, oblique, lip rather effused; chestnut-brown.

**Draparnaud, Hist. Moll. p. 74. pl. 4. f. 28.**

Helix obscura, Müller.

*Bulimus kordaceus,* Bruguieré.

February, 1850.
Turbo rupinum, Da Costa.
Eua obscura, Leach.
Mrdigera obscura, Held.

Hab. Europe and the British Isles.

Allied to B. montanus, from which it differs in form, and is uniformly of smaller size.

Species 648. (Mus. Cuming.)


The linear BULIMUS. Shell subulate, minutely compressedly umbilicate, whorls ten in number, flatly convex, very finely arcuatedly striated, margined round the upper part with a raised line, columella short, thinly reflected, aperture small, lip simple; transparent horn, straw-colour.

Krauss, Sudafr. Moll. p. 78, pl. 5. f. 3.

Hab. Port Natal, South Africa (near the river Limpopo); Wahlberg.

A delicate glossy shell, in which the suture is distinguished throughout by a fine elevated ridge.

Fig. 649 proves to be a variety of B. subula, Sp. 494.

Species 650. (Mus. Metcalfe.)


The four-toothed BULIMUS. Shell cylindrically oblong, sinistral, compressedly umbilical, whorls eight in number, flatly convex, obliquely striated, aperture somewhat square, four-toothed, lip and columella effused; olive horn, lip whitish.

Brugiere, Enc. Méd. vol. i. p. 351. no. 91.

Helis quadridens, Müller.
Pupa quadridens, Draparnaud.
Chondrus quadridens, Cuvier.
Jasminia heterostropha, Risso.
Goniostomum quadridens, Hch.
Torquitha quadridens, Villa.

Hab. France, Switzerland, Italy, Spain.

This species partakes very much of the character of Pupa, and may, with equal propriety, be referred to that genus.

Species 651. (Mus. Benson.)

BULIMUS Sikkimensis. Bul. testâ ovâtâ, subinctâ, spirâ breviusculâ, apice obtusâ, anfractibus quatuor, ultimo utroque maximo, concentricâ tenuâ striatis, suturâ impressâ, columellâ subquadraâtâ, tenuâ reflexâ, aperturâ oblongâ, superâ leviter sinuâta; pallide olivacea, semi-pellucidâ.

The Sikkim BULIMUS. Shell ovate, somewhat inflated, spire rather short, obtuse at the apex, whorls four in number, the last much the largest, concentrically finely striated, sutures impressed, columella slightly twisted, thinly reflected, aperture oblong, slightly sinuated at the upper part; pale olive, semi-transparent.

Hab. Darjeeling, Sikkim-Himalaya.

An interesting species from the collection of Mr. Benson, of a different type from those inhabiting the western Himalaya range.

Species 652. (Mus. Cuming.)

BULIMUS tuberiformis. Bul. testâ subulâtâ, subumbilicâtâ, anfractibus octo, convexis, subtilissimâ concentricâ striati, columellâ tenuâ reflexâ, aperturâ parvâ, labro simplici; pallide olivaceo-cornêdâ, labro albido.

The tuberiform BULIMUS. Shell subulate, slightly umbilicate, whorls eight in number, convex, very finely concentrically striated, columella thinly reflected, aperture small, lip simple; transparent horn, straw-colour.

Krauss, Sudafr. Moll. p. 78, pl. 5. f. 2.

Hab. Natal; Wahlberg.

Very closely allied to B. Opacanus from the Society Islands.

Species 653. (Mus. Benson.)

BULIMUS solitarius. Bul. testâ globose-conico, umbilicâtâ, anfractibus sex, rotundatis, oblique striatis, columellâ brevi, parâ dilatâtâ, aperturâ suborbiculari, labro simplici; albido, fuscâ fasciâtâ ant variegâtâ.

The solitary BULIMUS. Shell globose-conical, umbilicate, whorls six in number, rounded, obliquely striated, columella short, but little dilated, aperture nearly orbicular, lip simple; whitish, banded or variegated with brown.

Pfeiffer, Symb. vol. ii. p. 122.

Helis solitarius, Poiré.
Helis conoides, Draparnaud.
Bulimus conoides, Jan.

Hab. Southern Europe.

The most trochiform of any species of the genus.
BULIMUS.

PLATE LXXXVIII.

Species 654. (Mus. Cuming.)

BULIMUS EXIGUUS. Bul. testa oblonga, compressa umbilicata, anfractibus quinque, subrotundatis, columnellae verticiliter dilatatæ, aperturâ paré, rotundatâ, labro subreflexo; castaneo-corned.

The puny BULIMUS. Shell oblong, compressly umbilicated, whorls five in number, somewhat rounded, columella vertically dilated, aperture small, rounded, lip slightly reflected; chestnut horny.

Hab. St. Domingo ; Sallé.

A little dark horny species, approaching somewhat in general aspect to B. cuneopectus of Hindoostan.

Species 655. (Mus. Belecher.)

BULIMUS MICACOSHIMENSIS. Bul. testa subpyramidato-oblonga, eis umbilicata, anfractibus decem, subangustis, columnellae verticiliter reflexa, aperturâ rotundâ; pellucido-corned.

The MICACOISHIMA BULIMUS. Shell somewhat pyramidal oblong, scarcely umbilicated, whorls ten in number, rather narrow, columella vertically reflected, aperture rounded; transparent horny.


Hab. Islands of Ty-pin-san and Koo-Kien-san of the MICACOISHIMA group, Yellow Sea.

A small thin horny species, found by Mr. Arthur Adams on decayed leaves among the loose stones surrounding the tombs in the above-named islands.

Species 656. (Mus. Cuming.)

BULIMUS CONCENTRICUS. Bul. testa subacuminato-oblonga, eis umbilicata, anfractibus septem, subventricosis, concentrici tenuestriatis, columnellâ tenue reflexâ, aperturâ subolâptâ, superficie sinuata; pellucido-straminâ.

The CONCENTRIC BULIMUS. Shell somewhat acuminate oblong, scarcely umbilicated, whorls seven in number, rather ventricose, concentrically finely striated, columella thinly reflected, aperture rather large, sinuated at the upper part; transparent straw-colour.

Hab. Liberia, West Africa.

An extremely delicate inflated species, of the Glandina type, allied to B. Guineensis.

Species 148. (Mus. Metcalfe.)

BULIMUS HENNAHII. Bul. testâ acuminato-ovata, umbilicata, anfractibus sex ad septem, rotundatis, rugoso-striatis, columnellâ reflexa, aperturâ ovata, labro simplici; albidâ, linea purpureo-nigricans longitudinaliter irregulariter notata, apertura fave purpureo-nigricante, apice roseo.

HENNAH'S BULIMUS. Shell acuminate ovate, umbilicated, whorls six to seven in number, rounded, roughly striated, columella reflected, aperture ovate, lip simple; whitish, irregularly longitudinally marked with purple-black lines, apex pink.

GRAY, Speciegia Zoologica, part 1. p. 5. pl. 5. f. 1.

Bulimus lychnorum, Sowerby. Bulimus euctorum, D'Orbigny.

Hab. Peru.

To this species, which is extremely variable in colour, must be added B. erubescens, mihi, Sp. 148, of which it is a variety.

Species 657. (Fig. a, b, c, Mus. Cuming.)

BULIMUS SALLEANUS. Bul. testâ subulata, solidissimâ, anfractibus undecim, planatis, concentrici tenue striatis, columnellâ reflexâ, aperturâ ovata, basi subincrassata, labro simplici; epidermide tenui indutâ.

SALLE BULIMUS. Shell subulate, rather solid, whorls eleven in number, flattened, concentrically very finely striated, columella reflected, aperture small, slightly flexuous at the base, lip simple; transparent white, covered with a thin epidermis.

Hab. St. Domingo ; Sallé.

An interesting, sharply subulate, solid, ground species.

Species 658. (Mus. Miers.)

BULIMUS CONTORTUPPLICATUS. Bul. testâ oblongo-ovata, subventricosis, anfractibus quinque, convexâ, sinuissimâ indentatis, columnellâ subincrassata, uniplicata, aperturâ oblongo-ovata, labro subincrassato, reflexo; albidâ, partim rouxâ, epidermide tenui corned luteo-olivaceâ indutâ, apertura fave alba.

The TWISTED-PLAITED BULIMUS. Shell oblong-ovate, rather ventricose, whorls five in number, convex,

February, 1850.
very minutely indented, columella rather thickened, reflected; whitish, partially tinged with pink, covered with a thin horny olive-yellow epidermis, interior of the aperture white.

**Hab.** Minas Geraes, Brazil; Miers.

This fine species is nearest allied to *B. pudicus*, from which the plicate growth of the columella differs materially in form; whilst the shell is of a more oblong growth.

Species 660. (Mus. Cuming.)

**Bulimus Dominicus.** *Bul. testa ovata*, tenui, inflata, anfractibus quinque, sub lente minutissimè decussatim striatis, columella tenui reflexa et appressa, apertura ovata, labro simplici; pellicido-comede, fascia castanæ interruptæ cingulata, anfractus ultimo trifasciata.

**The Domino Bulimus.** Shell ovate, thin, inflated, whorls five in number, very minutely decussately striated beneath the lens, columella thinly reflected and appressed, aperture ovate, lip simple; transparent horny, encircled with an interrupted chestnut band, last whorl three-banded.

**Hab.** St. Domingo; Salè.

Resembling *B. Humboldtii*, but much smaller and more transparent, and of a different form.

Species 660. (Mus. Cuming.)

**Bulimus Liberianus.** *Bul. testa oblongo-ovata*, tenui-disculæ, compressæ umbilicataæ, apice obtusa, anfractibus sex, convexis, ad suturas tenuimarginatis, obliquè subtiliter et creberrimè elevato-striatis, columellæ latæ verticaliter reflexæ, apertura obliquè subquadrata; pelliculo-alba, immaculata.

**The Liberian Bulimus.** Shell oblong-ovate, rather swollen, compressly umbilicated, obtuse at the apex, whorls six in number, convex, thinly margined at the sutures, obliquely finely and very closely sculptured with raised striae, columella broadly rather vertically reflected, aperture obliquely square-formed; transparent white, unspotted.

**Gould, MSS.**

**Hab.** Liberia, West Africa.

This very interesting species belongs to the same type as the *Pupa grandis* of the islands of Socotra and Madagascar, and, bordering on the confines of the two genera, may be referred with equal propriety to either.
BULIMUS.

Plate LXXXIX.

Sp. 367. (Mus. Cuming.)

Bulimus interstinctus. Having been favoured with finer specimens of this very interesting species, collected by Dr. Perkins at Cape Palmas, West Africa, I avail myself of the opportunity of figuring two characteristic varieties.

Species 661. (Mus. Cuming.)

Bulimus Kellettii. Bul. testa ovata, subventricosa, anfractibus quinquen, convexis, rugoso-striatis, ad suturas subplicato-crenulatis, anfractu ultimo multo maximo, columella incrassata, peculiariter contorta, aperture subeffusa, labro incrassato, reflexo; carunculato-griseae, suturis angustis albis interrumpitis et undatis longitudinaliter fulguratibus, columella et aperture fuscis iridescenti purpureis.

Kellett's Bulimus. Shell ovate, rather ventricose, whorls five in number, convex, obliquely striated, somewhat pleated on the sutures, last whorl much the largest, columella thickened, peculiarly twisted, aperture rather effused, lip thickened, reflected; bluish-grey, encircled with four bands of a darker colour, and longitudinally lightning-marked with narrow waved and interrupted white streaks.

Hab. Ecuador?

I have much pleasure in naming this new and very beautiful species after the zealous naturalist, Capt. Kellett, of H. M. S. Herald, by whom it was procured in Central America, and is probably from Ecuador.

Species 212. (Mus. Miers.)

Bulimus ovatus. An interesting white-lip dwarf variety, from Bahia, described by M. Sowerby in his 'Conchological Illustrations' under the name B. auritus.

Species 662. (Fig. a and b. Mus. Cuming.)

Bulimus torridus. Bul. testa oblongo-tumida, apice subpapillari, anfractibus septem, convexis, obliquè elevato-striatis, ad suturas subtiliter et creberrimè crenulatis, columella simplici, aperture ovata, labro parim reflexo; utulato-fuscis, epidermide olivaceae indutis, aperture fuscis iridescentibus purpureis.

The Torrid Bulimus. Shell oblong-tumid, somewhat papillary at the apex, whorls seven in number, convex, obliquely elevated striated, finely and very closely crenulated at the sutures, columella simple, aperture ovate, lip but little reflected; scorched-brown, covered with an olive epidermis, interior of the aperture dark brown.

Gould, MSS.

Hab. Liberia, West Africa.

The African species received from Dr. Gould, of Boston, United States, just at the close of this monograph, will probably be described, if not so already, in the Proceedings of the Natural History Society of that city. They are of an extremely interesting character, and were collected by Dr. George A. Perkins, a zealous American missionary, for many years resident at Cape Palmas.

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ERRATA.

Sp. 4. B. rufogaster. Add authority, Lesson, Illus. de Zool. pl. 42.

Sp. 10. B. mus. Add authority, Broderip, MS.

Sp. 15. B. Minderiensis. Add as synonyme, B. aperennis, Grateloup, and B. anaeus, Pfeiffer.


Sp. 66. B. ovipons. Add as variety B. euryzonus, Pfeiffer.


Sp. 73. B. Adamsii. Dr. Gould informs me that this species is identical with his B. meiophasus, from Savoy, Pro. Bost. Soc. Nat. Hist. 1846.

Sp. 74. For B. ehreni read B. politus, the name being pre-occupied by Pfeiffer, Sp. 418.


Sp. 86. B. Tupaci. Add as synonyme B. inaeus, Menke.


Sp. 100. For B. sordidus, Lesson, read B. Proteus, Broderip, the former species being correctly represented at Fig. 401.

Sp. 112. B. elegans. Add as synonyme B. Buschii Pfeiffer.


Sp. 143. For B. striatilus, Sow., read B. Philippii, Pfeiffer, the first name being pre-occupied by Bruguière in reference to Bucinum striatilus, Müller, unidentified. For the true B. D’Orbignyi, under which name this species was communicated to me, see Sp. 439.

Sp. 148. For B. rubescens, Reeve, read B. Iennahii, Gray, for which see Pl. LXXXVIII.


Sp. 152. For B. vasillis, Brod., read B. altimans, Beck, Pfeiffer, Mon. Hel. vol. ii. p. 207, the former name being pre-occupied by Bruguière and by Wood.


Sp. 164. B. auris-Sileni. Insert Hab. Island of St. Vincent, West Indies; Guilding.


Sp. 182. B. Spixii. Add as synonyme B. bifasciatus, Philippi. The fold represented upon the columna in this figure is merely casual.


Sp. 189. For B. Lindenii, Reeve, read B. astropoides, Jonas, Philippi, Abbild. vol. i. p. 157. Bul. pl. 2. f. 3 and 4, quoted erroneously by Dr. Pfeiffer, as a variety of B. pardalis.


Sp. 203. B. melanostrana. Add as synonymes B. Swainsoni, Pfeiffer, and B. Illocoola, Moricand.

Sp. 204. For B. Popelariensis, Nyst, read B. Valenciensis, Pfeiffer, which has priority, and include the former name as synonyme.
ERRATA.

Sp. 311. For B. focillatus, Reeve, read B. Latriei, Pfeiffer, Philippi, Abbild. vol. ii. p. 112. Bul. pl. 4. f. 11, which name has priority.

Sp. 312. B. ovatus. Add as varieties B. Browni, Pfeiffer, and B. auritus, Sowerby.

Sp. 316. B. levis. Add as synonyms B. elegans, furcillatus, and porcellanus, Mousson.


Sp. 257. B. Lumnatianus. Add as synonyms Gbbona Lumnatit, De Montfort; Gbbona Lycomitans, Pfeiffer, and Pyga Lycomitana, De Blainville, to which genus it should perhaps be referred.


Sp. 307. For B. consimilis, Pfr., read B. redditus, Reeve. Dr. Pfeiffer's B. consimilis is correctly represented at Sp. 402.


Sp. 354. For B. feriatus read B. denatus, the name being already occupied for Sp. 314.


Sp. 417. B. Tournefortianus. Mr. W. J. Hamilton has favoured me with a variety of this species, striped obliquely with dark bands, collected during his travels in Asia Minor, at Pontus, between Sinope and Bosilad, where they hang suspended from the shrubs like fruit.

Sp. 491. For B. cylindricus read B. cymatilis, and add the former name as synonyme to the preceding species. For B. cylindricus see Sp. 444.


Sp. 492. B. conopictus. To the remark that this species is unlike B. fulliculus, may be added the following observations from Mr. Benson.—"B. fulliculus, being a Carchesium, has a different animal, and inhabits the Himalaya at an elevation of from 5,000 to 10,000 feet. B. conopictus, on the other hand, a true Bultum, does not reach the Himalaya range, but is confined to the plains and low hills on the right bank of the Jumna."

Sp. 498. B. truncatus. The figure of this species is inadvertently numbered 503 in the plate.


Sp. 579. B. micra. Inadvertently repeated, a more highly magnified figure having been already given at Pl. XIV. Sp. 78.

Sp. 583. B. obtusus. Hab., for Australia, read Austria.


Sp. 596. B. harpa. Add authority, Helia harpa, Say, App. Major Long's Expedition to St. Peter's; and Hab. N. W. Territory, United States.

Sp. 600. B. patricia. This fine species is identical with that described and figured at Pl. LXXIV. Sp. 532, in a young state, under the name B. liliaceus, which has priority.
