

Subgenus MUCRONALIA, *A. Ad.*

Testa subulata, recta, pupoidea, vertice obtuso, apice subito mucronata; anfractibus simplicibus. *Apertura* oblonga.

1. *Mucronalia bicincta*, *A. Ad. Annals*, 1860.

Hab. Mino-Sima, 63 fathoms.

2. *Mucronalia exilis*, *A. Ad. Annals*, 1861.

Hab. Seto-Uchi (Mososeki).

3. MUCRONALIA LACTEA, *A. Ad.*

M. testa subulata, pupoidea, vertice obtuso, mucrone parvo brevi, lactea, vix opaca; anfractibus normalibus 4, planis, suturis impressis; apertura obliqua, oblonga, antice dilatata et producta.

Hab. Tanabe.

A milk-white pupoid species, with the aperture very oblique and produced.

4. MUCRONALIA SUBULA, *A. Ad.*

M. testa subulata, nivea, vix opaca, pupoidea, vertice obtuso, mucrone parvo; anfractibus normalibus 6, planis, suturis impressis; apertura normali, oblongo-ovata.

Hab. Simoda.

Like *M. lactea*, but larger, with more numerous whorls, and the aperture not produced nor oblique as in that species.

Subgenus SELMA, *A. Ad.*

Testa oblongo-ovata, tenuis, subdiaphana, spira brevi, anfractu ultimo magno. *Apertura* elongato-ovata, antice integra; labio arcuato, oblique subplicato.

1. SELMA SUCCINIOLA, *A. Ad.*

S. testa elongato-ovali, tenui, rimata, subdiaphana, cornea, rufo tincta, spira brevi; anfractibus $3\frac{1}{2}$, vix convexis, ultimo amplo; apertura oblonga; labio rufo tincto, plica subtortuosa rufa instructo, labro margine simplici.

Hab. O-Sima.

I have been necessarily obliged to keep this species distinct from the others on account of its short spire and the spiral twist on the inner lip. The only specimen I obtained is a little *Succinia*-shaped shell, and, were it not for the aperture being entire in front, might be taken for a very young *Olivella*.

On the Species of Rostriferous Gasteropods (*Strombidae*, *Trichotropidae*, *Cypræidae*, and *Amphiperasidae*) found in Japan. By ARTHUR ADAMS, F.L.S., &c.

[Read January 15, 1863.]

THE species of *Strombidae* collected by me during the recent ex-

ploration of the coasts of Japan by H.M.S. 'Actæon' are all well-known species; in the family *Trichotropidæ* I was fortunate in finding a new *Iphinoë* and a beautifully-sculptured *Trichotropis*, besides nearly all the known species of that group. In the Cowry tribe nearly all the species are old Linnean shells. They are most numerous along the Pacific shores of the Japanese Islands, and more especially along the southern and eastern parts of Kiusu. The coral reefs of the Tropics are badly represented in Japan, and it is among the recesses of these that the Cowries delight to live. One new species only, belonging to the *Amphiperasidæ*, has occurred to me, most of the specimens found having been previously described by Sowerby from examples brought home by Sir E. Belcher and myself in H.M.S. 'Samarang.' The present paper presents a striking contrast to the others I have recently offered to the Society, which were principally composed of new species.

Fam. STROMBIDÆ.

1. GALLINULA, *Klein*.

1. *Gallinula vittata*, *Linn.* (*Strombus vittatus*, *L. Syst. Nat.* ed. 12. p. 1211; *Rve. Conch. Icon.* sp. 44.—*S. turritus*, *Lam.*—*S. Campbelli*, *Gray.*—*S. Japonicus*, *Rve.*)

Hab. Takano-Sima; Tomo.

2. *Gallinula succincta*, *Linn.* (*Strombus succinctus*, *L. Syst. Nat.* ed. 12. p. 1212; *Rve. Conch. Icon.* sp. 43.—*S. accinctus*, *Born.*)

Hab. Tatiyama; Okino-Sima.

2. CANARIUM, *Schum.*

1. *Canarium Luhuanum*, *Linn.* (*Strombus Luhuanus*, *L. Syst. Nat.* ed. 12. p. 1209; *Rve. Conch. Icon.* sp. 19.)

Hab. Takano-Sima; Tago.

3. TEREPELLUM, *Klein*.

1. *Terebellum terebellum*, *Linn.* (*Bulla terebellum*, *L. Syst. Nat.* ed. 12. p. 1185.—*Conus terebellum*, *Linn.*—*Terebellum subulatum*, *Lam. Ann. du Mus.* xvi. p. 301. no. 1.)

Hab. Nagasaki, 17 fathoms, mud; Yobuko, 20 fathoms, sandy mud.

Fam. TRICHOTROPIDÆ.

1. TRICHOTROPIS, *Brod. & Sow.*

1. *Trichotropis bicarinata*, *Brod. & Sow. Zool. Journ.* 1829, iv. p. 375. (*T. Sowerbiensis*, *Lesson.*)

Hab. Aniwa Bay, 17 fathoms; Gulf of Tartary, 29 fathoms.

2. *Trichotropis insignis*, *Middendorff*, *Beitr. zu einer Mal. Ross.* ii. p. 108.
Hab. Aniwa Bay, 17 fathoms.
3. *Trichotropis borealis*, *Brod. & Sow. Zool. Journ.* 1829, iv. p. 375.
(*T. costellata*, *Couth.*—*T. Atlantica*, *Beck.*—*T. umbilicata*, *Macgilliv.*)
Hab. Castle Point, Manchuria, 37 fathoms.
4. *Trichotropis conica*, *Möll. Ind. Moll. Grænland.* p. 85.
Hab. Castle Point, Manchuria, 37 fathoms.
5. *Trichotropis cancellata*, *Hinds, Zool. Voy. Sulph. Moll.* pl. 11. f. 11, 12.
Hab. Satanomosaki, 55 fathoms.
6. *Trichotropis inermis*, *Hinds, Zool. Voy. Sulph. Moll.* pl. 11. f. 13, 14.
Hab. Okosiri, 35 fathoms.
7. *Trichotropis cedo-nulli*, *A. Ad. Ann. & Mag. Nat. Hist.* 1860.
Hab. Gotto Islands, 48 fathoms; Mino-Sima, 63 fathoms.

2. IPHINOË, *H. & A. Ad.*

1. *Iphinoë unicarinata*, *Sow.* (*Trichotropis unicarinata*, *Sow. Gen. of Shells.*)
Hab. Gotto, 48 fathoms; Uraga, 21 fathoms.
2. *Iphinoë quadricarinata*, *A. Ad. Ann. & Mag. Nat. Hist.* 1861.
Hab. Okosiri, 35 fathoms.

Fam. CYPRÆIDÆ.

1. CYPRÆA, *Linn.*

1. *Cypræa fimbriata*, *Gmel. Syst. Nat.* p. 2423; *Rve. Conch. Icon.* sp. 92.
Hab. Kino-O-Sima.
2. *Cypræa felina*, *Gray, Zool. Journ.* i. p. 384; *Rve. Conch. Icon.* sp. 105.
Hab. Kino-O-Sima.
3. *Cypræa flaveola*, *Linn. Syst. Nat.* p. 1179; *Rve. Conch. Icon.* sp. 95.
Hab. Tatiyama; Tsu-Sima; Kino-O-Sima.

2. ARICIA, *Gray.*

1. *Aricia Arabica*, *Linn.* (*Cypræa Arabica*, *L. Syst. Nat.* ed. 12. p. 1173;
Rve. Conch. Icon. sp. 2.—*C. fragilis*, *Linn.*, young.—*C. amethystea*,
L., young.—*C. eglantina*, *Ducl.*)
Hab. Tago.
2. *Aricia reticulata*, *Martyn.* (*Cypræa reticulata*, *Martyn, Univ. Conch.*
pl. 15; *Rve. Conch. Icon.* sp. 3.—*C. histrio*, *Gmel.*—*C. arlequina*,
Chemn.)
Hab. Kino-O-Sima.

3. *Aricia moneta*, *Linn.* (*Cypræa moneta*, *L. Syst. Nat.* ed. 12. p. 1178;
Rve. Conch. Icon. sp. 74.)
Hab. Tatiyama; Tanabe.
4. *Aricia caput-serpentis*, *Linn.* (*Cypræa caput-serpentis*, *L. Syst. Nat.*
ed. 12. p. 1175; *Rve. Conch. Icon.* sp. 44.)
Hab. Tanabe; Kino-O-Sima; Tago; Tsu-Sima.

3. LUPONIA, *Gray.*

1. *Luponia caurica*, *Linn.* (*Cypræa caurica*, *L. Syst. Nat.* ed. 12. p. 1179;
Rve. Conch. Icon. sp. 46.)
Hab. Satanomosaki, 55 fathoms.
2. *Luponia onyx*, *Linn.* (*Cypræa onyx*, *L. Syst. Nat.* ed. 12. p. 1177;
Rve. Conch. Icon. sp. 39.—*C. adusta*, *Lam.*)
Hab. Tsusaki; Tanabe; Tatiyama.
3. *Luponia helvola*, *Linn.* (*Cypræa helvola*, *L. Syst. Nat.* ed. 12.
p. 1180; *Rve. Conch. Icon.* sp. 72.)
Hab. Takano-Sima.
4. *Luponia vitellus*, *Linn.* (*Cypræa vitellus*, *L. Syst. Nat.* ed. 12.
p. 1176, *Rve. Conch. Icon.* sp. 14.)
Hab. Kino-O-Sima.
5. *Luponia clandestina*, *Linn.* (*Cypræa clandestina*, *L. Syst. Nat.*
ed. 12. p. 1177; *Rve. Conch. Icon.* sp. 106.)
Hab. Tsu-Sima; Tatiyama; Kino-O-Sima.
6. *Luponia erosa*, *Linn.* (*Cypræa erosa*, *L. Syst. Nat.* ed. 12. p. 1179;
Rve. Conch. Icon. sp. 43.)
Hab. Tanabe; Takano-Sima.
7. *Luponia pallida*, *Gray.* (*Cypræa pallida*, *Gray, Zool. Journ.* i.
p. 387; *Rve. Conch. Icon.* sp. 54.)
Hab. Japan.
I have not met with this species.

4. PUSTULARIA, *Swains.*

1. *Pustularia staphylea*, *Linn.* (*Cypræa staphylea*, *L. Syst. Nat.* ed. 12.
p. 1181; *Rve. Conch. Icon.* sp. 82.—*C. limacina*, *Lam.*, var.)
Hab. Satanomosaki; Tatiyama; Takano-Sima.

5. TRIVIA, *Gray.*

1. *Trivia globosa*, *Gray, Sow. Conch. Illust.* *Cypræidæ*, no. 117; *Rve.*
Conch. Icon. sp. 152. (*Cypræa pilula*, *Kien.*)
Hab. Satanomosaki, 55 fathoms.
2. *Trivia grando*, *Gask. Proc. Zool. Soc.* 1849, p. 17.
Hab. Gotto, 71 fathoms; Simoda.

Fam. AMPHIPERASIDÆ.

1. AMPHIPERAS, *Gronov.*

1. *Amphiperas brevis*, Sow. (Ovulum breve, Sow. *Thes. Conch.* pl. 101. f. 70, 71.)
Hab. Mino-Sima, 63 fathoms.
2. *Amphiperas pyriformis*, Sow. (Ovulum pyriforme, Sow. *Thes. Conch.* pl. 101. f. 72, 73.)
Hab. Satanomosaki, 55 fathoms.
3. *Amphiperas bulla*, Sow. (Ovulum bulla, Sow. *Thes. Conch.* pl. 101. f. 82, 83; *Moll. Voy. Sam.* pl. 6. f. 5a, b.)
Hab. Satanomosaki, 55 fathoms.
4. *Amphiperas punctata*, *Duclos*. (Ovula punctata, *Ducl.*, *Guér. Mag. de Zool.* 1828.—Ovulum punctatum, Sow. *Thes. Conch.* pl. 101. f. 90, 92.)
Hab. Gotto Islands, 48 fathoms.
5. *Amphiperas umbilicata*, Sow. (Ovulum umbilicatum, Sow. *Thes. Conch.* pl. 101. f. 88, 89.)
Hab. Gotto Islands, 71 fathoms.
6. *Amphiperas Rhodia*, *A. Ad. Proc. Zool. Soc.* 1854, p. 130.
Hab. Japan, teste *Cuming*.

2. CALPURNUS, *Montf.*

1. *Calpurnus concinnus*, Sow. (Ovulum concinnum, Sow. *Moll. Voy. Sam.* pl. 6. f. 8.)
Hab. Mino-Sima, 63 fathoms.
2. *Calpurnus lacteus*, *Lam.* (Ovula lactea, *Lam. Hist. An. s. Vert.* vii. p. 368.—Ovulum lacteum, Sow. *Thes. Conch.* pl. 101. f. 67, 69.)
Hab. Kino-O-Sima.
3. *Calpurnus carneus*, *Lam.* (Ovula carnea, *Lam. Hist. An. s. Vert.* vii. p. 368.—Ovulum carneum, Sow. *Thes. Conch.* pl. 101. f. 74-77.)
Hab. Kino-O-Sima.
4. *Calpurnus striatulus*, Sow. (Ovulum striatulum, Sow. *Thes. Conch.* pl. 101. f. 84, 85.)
Hab. Tsusaki, 55 fathoms.
5. *Calpurnus bullulatus*, Sow. (Ovulum bullulatum, Sow. *Moll. Voy. Sam.* pl. 7. f. 13a, b.)
Hab. Gotto Islands, 71 fathoms.
6. *Calpurnus dentatus*, Sow. (Ovulum dentatum, Sow. *Moll. Voy. Sam.* pl. 7. f. 4a, b.)
Hab. Gotto Islands, 48 fathoms.

7. *Calpurnus formosus*, Sow. (*Ovulum formosum*, Sow. *Moll. Voy. Sam.* pl. 7. f. 6 *a, b.*)
Hab. Kino-O-Sima.
8. *Calpurnus dorsuosus*, Hinds. (*Ovulum dorsuosum*, Hinds, *Moll. Voy. Sulph.* pl. 17. f. 3, 4.)
Hab. Gotto Islands, 48 fathoms.

3. CYPHOMA, Bolt.

1. *CYPHOMA ELONGATUM*, A. Ad. *C.* testa elongata, angusta, utrinque valde producta, alba, in medio angulata, lævi; canalibus productis, emarginatis; apertura angusta, antice subdilatata; labio lævi, plano, extus callo gibboso instructo, antice intus longitudinaliter sulcato; labro crasso, in medio subangulato, extus varicoso.
Hab. Gotto, 48 fathoms.

The *Cyphoma* group consists of the species of *Ovula*, Lam., named *O. gibbosa*, *O. emarginata*, and *O. intermedia*. The present species is much more elongated and narrower even than *O. intermedia*, but it has the dorsal ridge and other peculiarities which constitute a *Cyphoma*.

4. VOLVA, Bolt.

1. *Volva volva*, L. (*Bulla volva*, Linn. *Syst. Nat.* ed. 12. p. 1185.—*Ovula volva*, Lam.—*Ovulum volva*, Sow. *Thes. Conch.* pl. 99. f. 6–8.)
Hab. Satanomosaki, 55 fathoms.

5. RADIUS, Schum.

1. *Radius recurvus*, Sow. (*Ovulum recurvum*, Sow. *Moll. Voy. Sam.* pl. 7. f. 3 *a, b, c.*)
Hab. Satanomosaki, 55 fathoms.
2. *Radius subreflexus*, Sow. (*Ovulum subreflexum*, Sow. *Moll. Voy. Sam.* pl. 7. f. 10 *a, b.*)
Hab. Tsu-Sima, 25 fathoms.
3. *Radius acuminatus*, Sow. (*Ovulum acuminatum*, Sow. *Moll. Voy. Sam.* pl. 7. f. 1 *a, b.*)
Hab. Kuro-Sima, 35 fathoms.
4. *Radius obtusus*, Sow. (*Ovulum obtusum*, Sow. *Thes. Conch.* pl. 100. f. 22–24.)
Hab. Mino-Sima, 63 fathoms; Kuro-Sima, 39 fathoms.
5. *Radius scitulus*, A. Ad. (*Amphiperas scitula*, A. Ad. *Proc. Zool. Soc.* 1854, p. 131.)
Hab. Tsu-Sima, 25 fathoms.



Adams, Arthur. 1863. "On the Species of Rostriferous Gasteropods (Strombidae, Trichotropidae, Cypraeidae, and Amphiperasidae) found in Japan." *Journal of the proceedings of the Linnean Society* 7(26), 91–96.
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