

two undulating fawn-coloured bands, which are accompanied by black equally undulating lines; marginal line black, festooned. Fore wings with an intermediate fawn-coloured costal black-marked spot. Hind wings with the inner band diffusedly black-bordered. Length of the body 6 lines; of the wings 18 lines.

On the Species of *Mitridæ* found in the Seas of Japan.

By ARTHUR ADAMS, F.L.S., &c.

[Read Dec. 3, 1863.]

THE shores of the Japanese Islands which are washed by the Pacific are most prolific in species of *Mitridæ*. Towards the north, in the Sea of Japan, I met with no member of the family. A few new species are here described, and a systematic list of all the species which were actually obtained by me in those seas is given.

Fam. MITRIDÆ.

A. MITRINÆ.

1. MITRA, *Lam.*

1. *Mitra impressa*, *Anton, Kuster. Conch. Cab.* pl. 14. f. 6, 7; *Rve.* sp. 250.

Hab. Japan (*Siebold*).

2. *Mitra floccata*, *Rve. Conch. Icon.* sp. 16.

Hab. Mososeki.

3. *Mitra sacerdotalis*, *A. Ad. Proc. Zool. Soc.* 1851, p. 138.

Hab. Kino-O-Sima.

4. MITRA JAPONICA, *A. Ad.*

M. testa turrito-fusiformi, albida, rufo maculata et variegata, spira qua apertura longiore; anfractibus 9, convexis, plicis longitudinalibus confertis lirisque transversis decussatis; apertura angusta; labio plicis quatuor validis obliquis instructo; labro postice subangulato, margine in medio recto.

Hab. Kino-O-Sima.

The decussation of the small longitudinal plicæ and transverse liræ give this species a granular surface. The colour is dingy white, stained and mottled with rufous.

2. SCABRICULA, *Swains.*

1. *Scabricula scabricula*, *L. (Voluta scabricula, L. Syst. Nat. ed. 12. p. 1192.—Mitra scabricula, Rve. sp. 35.—M. granatina, Lam.)*

Hab. Kino-O-Sima.

2. *Scabricula pretiosa*, *Rve.* (*Mitra pretiosa*, *Rve. Conch. Icon.* sp. 116.)
Hab. Kuro-Sima.

3. *Scabricula asperulata*, *A. Ad.* (*Mitra asperulata*, *A. Ad. Proc. Zool. Soc.* 1851, p. 136.
Hab. Gotto, 71 fathoms.

4. *SCABRICULA PUNCTO-LIRATA*, *A. Ad.*

S. testa fusiformi, fulva; anfractibus 6, planis, transversim liris, liris planatis, regularibus, æqualibus, longitudinaliter sulcatis, interstitiis valde punctatis, suturis profundis; apertura angusta, labio plicis tribus validis obliquis instructo, labro margine intus sulcato.

Hab. Gotto Islands, 48 fathoms.

A small fulvous species with flat lirate whorls, the intervals between the liræ being very coarsely punctate.

3. *CANCILLA*, *Swains.*

1. *Cancilla circulata*, *Kien.* (*Mitra circulata*, *Kien. Icon. Coq. viv.* pl. 5. f. 13.)

Hab. Mino-Sima.

2. *Cancilla carnicolor*, *Rve.* (*Mitra carnicolor*, *Rve. Conch. Icon.* sp. 164.
 —*M. pura*, *A. Ad.* (blanched specimens) *Proc. Zool. Soc.* 1851, p. 136.)

Hab. Tsu-Sima, 26 fathoms.

3. *Cancilla rosacea*, *Rve.* (*Mitra rosacea*, *Rve. Conch. Icon.* sp. 321.)

Hab. Kuro-Sima, 51 fathoms.

4. *Cancilla straminea*, *A. Ad.* (*Mitra straminea*, *A. Ad. Proc. Zool. Soc.* 1851, p. 132.)

Hab. Seto-Uchi (Mososeki).

5. *Cancilla Herklotsiana*, *Dohrn.* (*Mitra Herklotsiana*, *Dohrn, Malak. Blätt.* 1861.)

Hab. Japan (*Herklots*).

4. *MITREOLA*, *Swains.*

1. *Mitreola ignobilis*, *Rve.* (*Mitra ignobilis*, *Rve. Conch. Icon.* sp. 152.)

Hab. Mososeki.

5. *STRIGATELLA*, *Swains.*

1. *Strigatella amphorella*, *Lam.* (*Mitra amphorella*, *Lam. Hist. Anim. s. Vert.* vol. vii. p. 316; *Rve. Conch. Icon.* sp. 85.)

Hab. Japan, teste Dunker.

2. *Strigatella scutulata*, *Chemn.* (*Voluta scutulata*, *Chemn.*—*Mitra scutulata*, *Lam. Hist.* vol. vii. p. 314; *Rve. Conch. Icon.* sp. 82.—*Voluta pica*, var., *Chemn.*)

6. *CYLINDRA*, *Schum.*

1. *Cylindra undulosa*, *Rve.* (*Mitra undulosa*, *Rve. Conch. Icon.* sp. 193.)

Hab. Kino-O-Sima.

B. TURRICULINÆ.

1. COSTELLARIA, *Swains.*

1. *Costellaria cithara*, *Rve.* (*Mitra cithara*, *Rve. Conch. Icon.* sp. 248.)
Hab. Kino-O-Sima.

2. *Costellaria militaris*, *Rve.* (*Mitra militaris*, *Rve. Conch. Icon.* sp. 236.)
Hab. Fat-si-jeu, 25 fathoms.

3. *Costellaria zelotypa*, *Rve.* (*Mitra zelotypa*, *Rve. Conch. Icon.* sp. 325.)
Hab. Kino-O-Sima.

4. *Costellaria Suluensis*, *Ad. & Rve.* (*Mitra Suluensis*, *Ad. & Rve. Moll. Voy. Sam.* pl. 10. f. 27.)
Hab. Kino-O-Sima.

5. *Costellaria semicostata*, *Anton.* (*Mitra semicostata*, *Küster. Conch.-Cab.* pl. 14. f. 20, 21.)
Hab. Mososeki.

6. *Costellaria cruentata*, *Chemn.* (*Voluta cruentata*, *Chemn. Conch.-Cab.* vol. x. p. 171, tab. 151. f. 1438-39.—*Mitra harpæformis*, *Lam.*)
Hab. Japan, teste Dunker.

7. *Costellaria pusilla*, *A. Ad.* (*Mitra pusilla*, *A. Ad. Proc. Zool. Soc.* 1851, p. 141.)
Hab. Gotto, 48 fathoms; Uraga, 17 fathoms.

8. *Costellaria bellula*, *A. Ad.* (*Mitra bellula*, *A. Ad. Proc. Zool. Soc.* 1851, p. 138.)
Hab. Gotto, 48 fathoms.

9. *COSTELLARIA COLLINSONI*, *A. Ad.*

C. testa turrity-fusiformi, castanea, fascia fulva transversa in medio anfractuum ornata, spira elata conoidali quam apertura longiore; anfractibus 9, planis, longitudinaliter costatis, costis mediocribus, distantibus, interstitiis transversim valde sulcatis; apertura angusta, labio plicis tribus obliquis instructo, labro intus lirato ad marginem lævi.

Hab. Kino-O-Sima.

I have named this pretty species after John Collinson, Master R.N., my frequent companion in my Japanese wanderings, and a most assiduous and able collector.

10. *COSTELLARIA DOHRNI*, *A. Ad.*

C. testa turrity-fusiformi, grisea, irregulariter rufo maculata et variegata, spira quam apertura longiore; anfractibus 9, planis, longitudinaliter plicato-costatis, costis distantibus, postice nodoso-angulatis, interstitiis transversim valde sulcatis; apertura angusta, plicis quinque obliquis instructa, labro intus lirato prope marginem lævi.

Hab. Kino-O-Sima.

This is an elegant species, somewhat resembling *Mitra fusiformis*, Kien. The ribs are conspicuously nodulous at the hind part of the whorls.

2. *PUSIA*, Swains.

1. *Pusia analogica*, Rve. (*Mitra analogica*, Rve. *Conch. Icon.* sp. 293.)
Hab. Gotto, 48 fathoms.
2. *Pusia amabilis*, Rve. (*Mitra amabilis*, Rve. *Conch. Icon.* sp. 274.)
Hab. Kino-O-Sima.
3. *Pusia dermestina*, Lam. (*Mitra dermestina*, Lam. *Hist. An. s. Vert.* vol. vii. p. 323; Rve. sp. 143.—*Mitra pisolina*, Lam.)
Hab. Awa-Sima; Tsaulian.
4. *Pusia cavea*, Rve. (*Mitra cavea*, Rve. *Conch. Icon.* sp. 149.)
Hab. Kino-O-Sima.
5. *Pusia rubra*, Brod. (*Mitra rubra*, Brod. *Proc. Zool. Soc.* 1835; Rve. *Conch. Icon.* sp. 286.)
Hab. Uraga, 17 fathoms.
6. *Pusia Kraussii*, Dkr. (*Mitra Kraussii*, Dkr. *Moll. Japon.* p. 8.)
Hab. Japan (*Dunker*).
7. *Pusia Bronni*, Dkr. (*Mitra Bronni*, Dkr. *Moll. Japon.* p. 8.)
Hab. Japan (*Dunker*).

3. *CALLITHEA*, Swains.

1. *Callithea obeliscus*, Rve. (*Mitra obeliscus*, Rve. *Conch. Icon.* sp. 107.)
Hab. Kino-O-Sima.
2. *Callithea crebrilirata*, Rve. (*Mitra crebrilirata*, Rve. *Conch. Icon.* sp. 92.)
Hab. Satanomosaki, 55 fathoms.
3. *CALLITHEA SPRETA*, A. Ad.
C. testa fusiformi, pallide fusca, spira quam apertura longiore; anfractibus 7, convexiusculis, plicis costelliformibus longitudinalibus confertis et liris transversis validis decussatis, suturis canaliculatis infra marginatis; apertura angusta, labio plicis duabus obsoletis instructo.
Hab. Mino-Sima, 63 fathoms.

A small pale-brown species, with the whorls decussated by fine longitudinal ribs and strong transverse liræ.



Adams, Arthur. 1864. "On the Species of Mytridae found in the Seas of Japan." *Journal of the proceedings of the Linnean Society* 7(28), 198–201.
<https://doi.org/10.1111/j.1096-3642.1863.tb02114.x>.

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