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On the Species of *Pyramidellinæ* found in Japan. By ARTHUR ADAMS, F.L.S., &c. Received September 11, 1862.

[Read Nov. 6, 1862.]

I HAVE not met with a single species of *Pyramidella*, s. str., in Japan. The small plicate species with a single plait, separated under the name of *Parthenia* by Lowe, and the pupoid forms arranged by P. P. Carpenter under the head of *Chrysallida* are the most numerous of the subfamily. Besides these, I recognize a thin, turreted form, which I call *Pyrgulina*; an ovate-cancellate group, which is named *Mumiola*; a plicate form, with a spiral axis, which is my *Mormula*; and a little group, solid, and half costate, half lirata, which I designate *Miralda*.

Gen. MORMULA, A. Ad.

Testa subulato-turrita, rissoidea, solida, crassa, longitudinaliter plicata. *Apertura* magna; labio spiraliter tortuoso; labro intus incrassato, margine acuto.

1. MORMULA RISSOINA, A. Ad.

M. testa subulato-turrita, solida, in medio tumidula, albida, fasciis duabus transversis rufescentibus sæpe ornata; anfractibus normalibus 7, planiusculis, longitudinaliter plicatis, plicis crassis vix undulatis, nonnullis

variciformibus, interstitiis valde liratis; apertur asubquadrata; labio recto, spiraliter tortuoso; labro intus incrassato, margine acuto.

Hab. O-Sima; Takano-Sima.

This is a singular-banded shell, very much resembling a *Rissoina*; but the inner lip is spirally twisted, and the nucleus is sinistral.

2. *MORMULA EGREGIA*, *A. Ad.*

M. testa subulato-turrita, crassa, solida, rissoida, carneola, rufo fasciata; anfractibus normalibus 8, planis, longitudinaliter valde costatis, transversim totis liratis, fasciis tribus transversis rufis ornatis; apertura subquadrato-ovata; labio spiraliter tortuoso; labro intus incrassato, extus varicoso, margine arcuato, acuto.

Hab. Delaguete; Philippines.

I have introduced this singular Rissoid-looking shell here, although not from Japan, as a second species of *Mormula*. It appears to agree congenerically with *M. rissoina*; but the nucleolar whorls are unfortunately broken off.

Gen. *CHRYSALLIDA*, *Cpr.*

The species enumerated and described in this communication are all from Japan.

1. *Chrysallida plicata*, *A. Ad. Annals Nat. Hist.* 1860.

Hab. Mino-Sima; Gotto; O-Sima.

2. *Chrysallida consimilis*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. O-Sima; Takano-Sima.

3. *Chrysallida pupula*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. Tsu-Sima, 26 fathoms.

4. *Chrysallida alveata*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. Tsu-Sima; Takano-Sima.

5. *Chrysallida consobrina*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. Awa-Sima; Gotto.

6. *Chrysallida nana*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. Tsu-sima, 26 fathoms.

7. *Chrysallida mumia*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. Gotto, 48 fathoms.

8. *Chrysallida mundula*. *A. Ad.* (*Parthenia mundula*, *Annals Nat. Hist.* 1861).

Hab. Sado; O-Sima.

9. *Chrysallida munda*, *A. Ad. Annals Nat. Hist.* 1861.

Hab. Korea Strait.

10. *CHRYSALLIDA FILOCINCTA*, *A. Ad.*

C. testa elongato-ovali, albida, linea rufa (in anfractu ultimo lineis duabus) ornata; anfractibus normalibus 5, convexiusculis, longitudinaliter pli-

catis, plicis subconfertis, interstitiis punctatis, plicis in anfractu ultimo ad peripheriam evanidis; apertura ovata, antice effusa, plica columellari obliqua.

Hab. O-Sima.

More ovate than *M. rufolineata*, and the interstices obscurely punctate.

11. *CHRYSALLIDA RUFOLINEATA*, *A. Ad.*

C. testa elongato-turrita, albida, nitida, linea rufa (in anfractu ultimo lineis duabus) ornata; anfractibus normalibus 6, planis, in medio excavatis, longitudinaliter plicatis, plicis subdistantibus, interstitiis lævibus, suturis crenulatis, plicis in anfractu ultimo ad peripheriam evanidis; apertura subquadrato-ovato, antice effusa, plica parietali obliqua.

Hab. Gotto, 48 fathoms.

12. *CHRYSALLIDA GALBULA*, *A. Ad.*

C. testa elongato-ovata, pupoidea, in medio tumida, apice obtusiusculo, lactea, nitida; anfractibus normalibus 6, tabulatis, transversim liratis, in medio concaviusculis, superioribus longitudinaliter plicatis, inferioribus lævibus; apertura ovata; labio incrassato, plica parietali mediana, transversa; labro intus sulcato.

Hab. Gotto, 48 fathoms.

A little pupoid, semiplicate species, with the whorls transversely grooved internally.

13. *CHRYSALLIDA ERUCELLA*, *A. Ad.*

C. testa elongata, pupiformi, badia; anfractibus normalibus 7, planis, longitudinaliter costatis, costis validis, rectis, confertis, interstitiis simplicibus; apertura ovato-oblonga, plica parietali obliqua, conspicua.

Hab. Seto-Uchi; O-Sima; Takano-Sima.

A neatly fashioned, brown species, with strong ribs, and with the interstices plain.

Gen. *MIRALDA*, *A. Ad.*

Testa solida, ovata, seu elongata; anfractibus planis, postice plicatis, antice transversim liratis. *Apertura* labro postice subangulato, margine crenato.

1. *Miralda diadema*, *A. Ad.* (*Parthenia diadema*, *Annals N. H.* 1860).

Hab. Mino-Sima; Seto-Uchi; Uraga.

2. *Miralda Mariella*, *A. Ad.* (*Parthenia Mariella*, *Ann. N. H.* 1860).

Hab. Mino-Sima; Gotto; Tsu-Sima; Seto-Uchi.

3. *Miralda gemma*, *A. Ad.* (*Parthenia gemma*, *Ann. N. H.* 1861).

Hab. Tsu-Sima; Seto-Uchi; Akasi.

Gen. *PARTHENIA*, *Lowe.*

Testa tenuis, pyramidata seu turrita; anfractibus longitudinaliter costellatis, costellis, in anfractu ultimo, ad peripheriam evanidis. *Apertura* ovata; labro in medio subangulato; labio plica unica instructo.

1. *Parthenia monocycla*, *A. Ad. Annals Nat. Hist.* 1860.
Hab. Mino-Sima; Gotto; O-Sima; Tanabe.
2. *Parthenia spirata*, *A. Ad. Annals Nat. Hist.* 1860.
Hab. Mino-Sima.
3. *Parthenia littoralis*, *A. Ad. Annals Nat. Hist.* 1861.
Hab. Tsu-Sima, on oysters, low water.
4. *Parthenia punctigera*, *A. Ad. Annals Nat. Hist.* 1860.
Hab. Gotto; Sado.
5. *Parthenia semiplicata*, *A. Ad.* (*Chrysallida semiplicata*, *Annals*, 1860).
Hab. Gotto; O-Sima; Takano-Sima.
6. *Parthenia pusio*, *A. Ad.* (*Chrysallida pusio*, *Annals Nat. Hist.* 1861).
Hab. Tsu-Sima; O-Sima.
7. *Parthenia pagodula*, *A. Ad.* (*Turbonilla monocycla*, *A. Ad. Annals Nat. Hist.* 1860).
Hab. Mino-Sima; Taku-Sima; Takano-Sima.
8. *Parthenia foveolata*, *A. Ad. Annals Nat. Hist.* 1860.
Hab. Mino-Sima.

9. *PARTHENIA CÆLATA*, *A. Ad.*

M. testa pyramidato-turrita, alba, solida; anfractibus normalibus 8, planatis, longitudinaliter costatis, costis rectis, interstitiis valde punctatis; cingula transversa, conspicua, ad suturas ornatis; anfractu ultimo ad peripheriam angulato, basi cingulistribus, validis, concentricis instructo; apertura subquadrata, plica columellari transversa, conspicua, acuta.

Hab. Seto-Uchi; Akasi; Tsu-Sima.

This is a very regular, strongly-marked species, found principally at Akasi, in the Inland Sea. The form is elongately pyramidal, and the whorls are ribbed and lirate, the lower portions being encircled with a concentric elevated zone, and the last whorl at the base being furnished with three similar zones.

Gen. *PYRGULINA*, *A. Ad.*

Testa tenuis, ovato-turrita; anfractibus spiratis, postice angulatis, longitudinaliter plicatis. *Apertura* ovata; labro margine postice angulato.

1. *Pyrgulina casta*, *A. Ad.* (*Chrysallida casta*, *Annals Nat. Hist.* 1861).
Hab. Takano-Sima.
2. *Pyrgulina Minna*, *A. Ad.* (*Chrysallida Minna*, *Annals*, 1860.)
Hab. Mino-Sima; Gotto,
3. *Pyrgulina Brenda*, *A. Ad.* (*Chrysallida Brenda*, *Annals*, 1860).
Hab. Takano-Sima; O-Sima.
4. *Pyrgulina elegantula*, *A. Ad.* (*Chrysallida elegantula*, *Annals*, 1860).
Hab. Mino-Sima; Seto-Uchi.

5. *Pyrgulina pygmæa*, *A. Ad.* (*Chrysallida pygmæa*, *Annals*, 1861).
Hab. Mino-Sima; Gotto.
6. *Pyrgulina pulchella*, *A. Ad.* (*Chrysallida pulchella*, *Annals*, 1860).
Hab. Gotto; Mino-Sima; Seto-Uchi; Akasi.
7. *Pyrgulina concinna*, *A. Ad.* (*Chrysallida concinna*, *Annals*, 1860).
Hab. Mino-Sima.
8. *Pyrgulina miranda*, *A. Ad.* (*Chrysallida miranda*, *Annals*, 1861).
Hab. Yobuko.
9. *Pyrgulina bellula*, *A. Ad.* (*Parthenia bellula*, *Annals*, 1860).
Hab. Tabu-Sima, 24 fathoms.
10. *Pyrgulina fenestrata*, *A. Ad.* (*Parthenia fenestrata*, *Annals*, 1860).
Hab. Mino-Sima.
11. *Pyrgulina pura*, *A. Ad.* (*Chrysallida pura*, *A. Ad. Annals*, 1861).
Hab. Awa-Sima; Takano-Sima.

12. *PYRGULINA TANTILLA*, *A. Ad.*

P. testa tenui, turrita, alba, semipellucida; anfractibus normalibus 4, convexiusculis, postice vix angulatis, longitudinaliter plicatis, plicis undulatis, subconfertis, interstitiis concinne clathratis, suturis profundis; apertura ovata, plica columellari conspicua.

Hab. O-Sima; Tanabe; Takano-Sima.

A very pretty little species, semitransparent, and neatly sculptured.

13. *PYRGULINA DECUSSATA*, *A. Ad.*

P. testa ovato-turrita, rimata, tenui; anfractibus normalibus 4, planatis, postice rotundato-angulatis, costellis tenuibus confertis longitudinalibus et lineis elevatis transversis decussatis; apertura quadrato-ovata; labio subrecto; plica columellari cælata.

Hab. Gotto, 48 fathoms.

In this species the longitudinal ribs are very fine and close together, and are crossed by transverse lines.

Gen. *MUMIOLA*, *A. Ad.*

Testa tenuis, elongata seu ovata; anfractibus convexis, cancellatis aut granulosis. *Apertura* ovata; labro margine regulariter arcuato.

1. *Mumiola spirata*, *A. Ad.* (*Monoptygma spirata*, *A. Ad. Sow. Thes. Monopt.* pl. 172. figs. 26, 27.)

Hab. O-Sima.

2. *MUMIOLA RETICOSA*, *A. Ad.*

M. testa tenui, rimata, acuminato-ovata; anfractibus normalibus 4, convexis, lineis elevatis transversis et longitudinalibus decussatis; apertura ovata; labio plica postica, transversa, valida; labro simplici, arcuato.

Hab. Seto-Uchi.

The cancellation in this species is much finer than in *M. spirata*, and the whorls are not angulate at the sutures.

3. *MUMIOLA TESSELLATA*, *A. Ad.*

M. testa ovata, rimata, sordide alba, anfractibus normalibus 5, planiusculis, liris granosis longitudinalibus confertis, et sulcis validis transversis concinne tessellatis; apertura ovato-oblonga, plica columellari transversa, valida, mediana.

Hab. Tanabe; O-Sima.

An ovate, tessellated species, of very neat form, and peculiar style of sculpture.

Catalogue of Hymenopterous Insects collected by Mr. A. R. WALLACE in the Islands of Mysol, Ceram, Waigiou, Bouru and Timor. By FREDERICK SMITH, Assistant in the Zoological Department, British Museum. Communicated by W. W. SAUNDERS, Esq., F.R.S. & L.S.

[Read Jan. 15, 1863.]

It will be observed, on comparing the contents of the present collection with others described in previous papers, that the species most widely distributed belong to the families *Vespidæ* and *Sphegidae*, both containing insects of powerful flight; whilst among the apterous genera, or those in which the females are only temporarily winged, as in the *Formicidæ*, the range of distribution is much more circumscribed; it is, consequently, here that the largest number of new species are found.

In this paper, no less than four new species of the family *Thynnidæ* are described, one belonging to the genus *Ælurus*, the first, I believe, that has occurred out of Australia. We hope shortly to be enabled to draw up a set of tables showing the range of geographical distribution of the numerous species of Hymenoptera described in the various previous papers on the insects of the Eastern Archipelago.

Fam. EVANIDÆ, *Leach.*

Gen. MEGISCHUS, *Brullé.*

1. *Megischus tarsalis*, *Smith, Proc. Linn. Soc. v. 137. 2.*

Hab. Ceram; Bachian.

2. *Megischus viduus*, *Smith, Proc. Linn. Soc. v. 138. 3.*

Hab. Kaisaa; Ceram.

3. *MEGISCHUS SPOLIATOR.* *M. niger*, mandibulis et antennarum



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