THREE NEW SPECIES AND TWO NEW RECORDS OF THE GENUS GLOSSODORIS FROM JAPAN

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THREE NEW SPECIES AND TWO NEW RECORDS OF
THE GENUS GLOSSODORIS FROM JAPAN  

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With 6 Text-figures

The following is a revised list of the Japanese species belonging to Glossodoris
and the allied genus Noumea (see also BABA, 1949).

1. *Glossodoris lineolata* (VAN HASSELT, 1824). Kurosuji-umiushi
2. *Glossodoris marginata* (PEASE, 1860). Shirahime-umiushi (new name)
   1947). Seto-iroumiushi
5. *Glossodoris pallescens* (BERGH, 1875). Shiro-umiushi
7. *Glossodoris alderi* (COLLINGWOOD, 1881) = *G. reticulata* (PEASE, 1866). Sarasa-
   umiushi
8. *Glossodoris aureopurpurea* (COLLINGWOOD, 1881). Komon-umiushi

The following species are here added to the above list.

1) Contributions from the Seto Marine Biological Laboratory, No. 218.

1. *Glossodoris shirarae* BABA, n. sp.  
Shirara-iroumiushi (new name)  
(Fig. 1; Fig. 6, A–B)

The animals of this new species differ from those of *Glossodoris pallescens* (BERGH) and other allied forms in some points of the body colouring. They are about 10–25 mm in total length. The back is very finely tuberculated. General ground-colour whitish above and below, the rhinophores and the gills colourless, the back scattered with a varying number of purple (not black nor carmine red) spots which may also be found on the underside of the mantle. The intramarginal yellow band of the mantle continuous or in places interrupted by white. It is especially marked by having a series of indentations on inside. Labial disk and radula as usual in the genus. The elements of the former bifid at tip. Radula formula $45 \times 37 \times 37$. First lateral denticulated on both sides, the next laterals with 4–10 denticles on outer margin.

Fig. 1. *Glossodoris shirarae* (Seto, Mar. 30, 1953. Total length 12mm).  
Fig. 2. *Glossodoris nona* (Sagami Bay, Mar. 20, 1951. Total length 25mm).
As there appears to be no species with which the present nudibranch can be identified with certainty, I have given it the specific name _shirarae_, after the local name of Seto, Kii.

2. _Glossodoris multituberculata_ BABBA n. sp.

Renge-umiushi (new name)

(Fig. 3; Fig. 6, C-E)

A strongly tuberculated glossodorid. Length about 20 mm. Back ornamented with large, elevated, bluntly conical tubercles, with smaller ones between them and
around the branchial opening. With 4 marginal cysts on postero-ventral edge of mantle. General ground-colour almost everywhere chrome-yellow, becoming slightly paler towards the margin of the mantle. Dorsal tubercles tipped with purple. Rhinophores, gills, foot-margin and tip of the oral tentacles purple. Elements of the labial disk bifid at tip. Radula formula 65×30. 0. 30. Rachidial plate not marked. First lateral with 4–5 denticles on either side of the median cusp. Succeeding laterals denticulated on outer edge, the number of denticles increasing from 4 up to 10.

Loc.: Seto, Kii (Aug. 1951, 1 sp., coll. by Mr. Hamatani).

The present species differs from Glossodoris nodulosa (Bergh) in the type of the radula teeth, and from G. papulosa (Bergh) in the size and arrangement of the dorsal tubercles.

3. **Glossodoris nona** BABA, n. sp.

Shiraume-umiushi (new name)

(Fig. 2; Fig. 6, F–G)

The simple but fairly unique coloration of this species consists of pure white body-colour with yellow rhinophores and yellow gills, and a number of opaque white spots sparsely set around the mantle-margin. Length of body 25 mm. Labial disk a belt of bifid rads. Radula formula 65×40. 0. 40. First lateral not differentiated (cf. Noumea nivalis BABA), and with 4–5 denticles on both sides. Succeeding laterals denticulated on outer margin only, the number of denticles varying from 4 to 10.

Loc.: Amadaiba, Sagami Bay, 80 m (Mar. 1951, 1 sp., coll. by His Majesty’s Biological Laboratory).

This species is here regarded as new, with the name noma which implies “Miss” in Malay language.

4. **Glossodoris fidelis** (Kelaart, 1858)

= **G. flammulata** (Bergh, 1905)

Fujinami-umiushi (new name)

(Fig. 4; Fig. 6, H–I)

A beautifully coloured glossodorid about 15 mm in length. The median part of the back is yellow. It is surrounded by an intramarginal band of purple-red, which turns to orange-yellow near the outer edge of the mantle. On inside the band is irregular, thus sending off a number of tooth-like prolongations directed inwardly. A fine thread of opaque white is visible edging the inner border of the purple-red band. Rhinophores black. Gills 7, also black-tinted. Underside of body yellowish
Glossodoris fidelis (Seto, July 28, 1953. Total length 15 mm).
After the original figure taken by Mr. YAMAMOTO.
Glossodoris hilaris (Seto, June 22, 1951. Total length 12 mm).
5. *Glossodoris hilaris* (Bergh, 1890)

Kuchinashi-ironmiushi (new name)

(Fig. 5; Fig. 6, J-K)

The animals before me appear to be a colour variety of *hilaris*, and correspond in all respects to *Chromodoris lineata* of Eliot (1904, pp. 396-397, pl. 24, fig. 7) from Zanzibar. Total length of body from 15–25 mm. Back ornamented with 5 longitudinal lines of bright purple, of which the median one is obliterated in the type of *hilaris*

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New Species and Records of Glossodoris from Japan

(Bergh 1890, pp. 935-937, pl. 86, fig. 4; pl. 87, figs. 11-15), and the rest are apt to fuse together in front and behind so as to enclose the rhinophores and the gills. Sides of body with 2 purple lines. A purple line also surrounding the mantle, the foot-brim and the gill-opening. General ground-colour of back and sides chrome-yellow, the sole whitish, the rhinophores and the gills vermilion. Elements of the labial disk mace-shaped with two lateral protuberances. Radula formula 50 x 28-30. 0. 28-30. All the lateral teeth bicuspidate, each having a few accessory denticles on outside.

Loc.: Seto, Kii (July 1939, June & Sept. 1951, 3 sps., coll. by Mr. Yamamoto).
Dist.: Indian Ocean (Zanzibar).

In concluding I wish to tender my hearty thanks to Messrs. Iwao Hamatani, Torao Yamamoto and Takeo Abe for their willing assistance in collecting and studying these beautiful nudibranchs at Seto, Kii or at Abugashima, Toyama Bay. A part of the material was kindly delivered to me by the courtesy of His Majesty's Biological Laboratory.

LITERATURE

Baba, K. 1949. Opisthobranchia of Sagami Bay, collected by His Majesty the Emperor of Japan. Iwanami Shoten, Tokyo.