

Supplement of the Scaphopoda and Cephalopoda to "A Catalogue of Molluscs of Wakayama Prefecture, the Province of Kii- I (1981)"

TAKASHI OKUTANI

714 Takaishi 4-17-1, Asao-ku, Kawasaki City, Japan 215-0003

Since Habe (1981) and Taki (1981) had published the catalogues of the scaphopods and cephalopods, respectively, in "A catalogue of molluscs of Wakayama Prefecture, the Province of Kii-I", seven more scaphopod and two more cephalopod (cuttlebone) species were subsequently collected or discovered in the Ikebe, Nagai and Koyama Collections in the Wakayama Prefectural Museum of Natural History. These new findings here supplement to the previous catalogues that were published 24 years ago. The format and abbreviations for references in synonyms mostly follow those in the previous catalogue (see pp.19-23 in the "Catalogue" 1981).

Class SCAPHOPODA

Order Dentaliida

Family Dentaliidae

Genus *Striodentalium* Habe, 1964

- Striodentalium hosoi* (Habe, 1963) Yase-tsunogai (Habe) Pl.1, Fig. 1
1963 *Antalis hosoi* Habe, BNSM, 6, p.263, tfs.4-6.
1964 *Striodentalium hosoi*: Habe, FJ, p.23, pl.4, fs.4-6.
Loc. off Kushimoto, 400m (Nagai); Kii-Oshima, 150 m (Nagai).
Dist. off Kii Peninsula to Shikoku, 200-760 m (Habe, 1964).

Genus *Graptacme* Pilsbry & Sharp, 1897

- Graptacme acicula* (Gould, 1859) Ryukyu-tsunogai (Kuroda); hoso-tsunogai (Iwakawa) Pl.1, Fig.2
1897 *Dentalium aciculum*: Pilsbry & Sharp, M. of C., 17, p.93, pl.17, fs.65-67.
1906 *Dentalium (Graptacme) aciculum*: Boissevain, Siboga, 45, p.46, pl.2, f.36; pl.5, fs.13, 14.
1926 *Dentalium luchuanum* Dall, PBSW, 39, p.63.
1955 *Dentalium (Graptacme) luchuanum*: Habe, ICJS, B, p.9.
1961 *Graptacme luchuanum*: Habe, CISJ, 2, p.105, pl.47, f.10.
1963 *Graptacme aciculum*: Habe, BNSM, 6, p.265, pl.38, f.4,5, tfs.7,8.
1964 *Graptacme aciculum*: Habe, FJ, p.24, pl.2, fs.4,5; pl.3, fs. 3,4; pl.4, fs.7,8.
1977 *Graptacme aciculum*: Habe, SMJB/S, p.334.
2000 *Graptacme aciculum*: Okutani, Mar. Moll. Jap., p.825, pl.410, f.9.
Loc. off Kushimoto, 50-60 m.
Dist. off Kii Peninsula to Okinawa and Indonesia, intertidal-100 m.

Family Laevidentaliidae

Genus *Laevidentalium* Cossmann, 1888

***Laevidentalium toyamaense* (Kuroda & Kikuchi, 1933) Toyama-tsunogai (Kuroda & Kikuchi)**

1933 *Dentalium (Laevidentalium) toyamaense* Kuroda & Kikuchi, Venus, 4, p.11, pl.1, fs.5,6.

1963 *Laevidentalium toyamaense*: Habe, BNSM, 6, p.269, pl.38, fs.19,20.

1964 *Laevidentalium toyamaense*: Okutani, Venus, 23, p.74, pl.6, f.4, tf. 1

1964 *Laevidentalium toyamaense*: Habe, FJ, p.36, pl.2, f.19,20; pl.3, f.15.

2000 *Laevidentalium toyamaense*: Okutani, Mar. Moll. Jap., p.827, pl.412, f.1.

Loc. off Tanabe, 975-1112m deep (Tsuchida).

Dist. Toyama Bay, Sagami Bay and off Kii Peninsula, 200-1400 m.

***Laevidentalium sominium* Okutani, 1964 Maboroshi-tsunogai (Okutani) Pl. 1, Fig. 5**

1964 *Laevidentalium sominium* Okutani, Venus, 23, p.75, tf. 3.

1964 *Laevidentalium sominium*: Habe, FJ, p. 36, pl.5, fs. 57,58.

2000 *Laevidentalium sominium*: Okutani, Mar.Moll.Jap., p. 829, pl.412, f.2.

Loc. off Tanabe, 875-1112 m (Tsuchida); off Shionomisaki, 1000 m (Nagai); off Wabuka, Kushimoto, 700 m (Nagai).

Dist. Sagami Bay and off Kii Peninsula, 620-1400 m.

Order Gadilida**Family Entalinidae****Genus *Bathoxiphus* Pilsbry & Sharp, 1897*****Bathoxiphus tricarinatus* (Boissevain, 1906) Hishi-tsunogai (Okutani) Pl.1, Fig.3**

1906 *Dentalium tricarinatum* Boissevain, Siboga, 45, p.48, pl.6, f.40, 41.

1964 *Bathoxiphus tricarinatus*: Okutani, Venus 23, p.76, pl.6, f.10.

1964 *Bathoxiphus tricarinatus*: Habe, FJ, p.33, pl.5, fs. 69,70.

2000 *Bathoxiphus tricarinatus*: Okutani, Mar. Moll. Jap., p.829, pl.412, f.8.

Loc. off Wabuka, Kushimoto, 700 m (Nagai); Shionomisaki, 800 m (Nagai).

Dist. Sagami Bay to tropical Indo-West Pacific, 693-1900 m.

***Bathoxiphus soyomaruuae* Okutani, 1964 Soyo-tsunogai (Okutani) Pl.1, Fig.4**

1964 *Bathoxiphus soyomaruuae* Okutani, Venus, 23, p.77, tf.4.

1964 *Bathoxiphus soyomaruuae*: Habe, FJ, p.11, pl.5, fs. 61,62.

2000 *Bathoxiphus soyomaruuae*: Okutani, Mar. Moll. Jap., p.826, pl.412, f.7.

Loc. off Esuzaki, Susami 1200 m (Nagai); off Kushimoto, 1200 m (Nagai).

Dist. off Izu Islands, 3150-3350 m; off Kii Peninsula, 1200 m.

Family Gadilidae**Genus *Gadila* Gray, 1845*****Gadila opportuna* (Kuroda & Habe in Habe, 1961) Harabuto-tsunogai (Habe) Pl. 1, Fig. 6**

1961 *Gadila opportuna* Kuroda & Habe in Habe, CISJ 2, p. 105, app.34, pl.47, f.2.

1964 *Platyschides opportunus*: Habe, FJ, p.48, pl. 3, f.1; pl.5, f.37.

1964 *Platyschides opportunus*: Okutani, Venus 23, p.81, pl.6, f. 6, tf. 2a.

1971 *Platyschides opportunus*: Kuroda, Habe & Oyama, SSSB, p. 495, 313, pl. 116, fs. 21, 22.

2000 *Gadila opportuna*: Okutani, Mar. Moll. Jap., p. 831, pl.413, f.9.
 Loc. off Izumo, Kushimoto (Ikebe).
 Dist. The Sea of Kashima-Nada to Sagami Bay, 200-780 m.

Class CEPHALOPODA

Order Sepioida

Family Sepiidae

Genus *Sepia* Linnaeus, 1758

Sepia (s.s.) *latimanus* Quoy & Gaimard, 1832 Kobushime (Okinawan dialect) Pl. 1, Fig. 7

- 1832 *Sepia latimanus* Quoy & Gaimard, Astrolabe, p.68, pl.2, fs.2-11.
 1894 *Sepia hercules* Pilsbry, Nautilus 7, p. 144.
 1895 *Sepia hercules*: Pilsbry, Cat. Mar. Moll. Jap., p. 2, pl.1, fs.1, 2.
 1929 *Sepia hercules*: Sasaki, J. Coll. Agr., Hokkaido Univ., 20. Suppl., p.177, fs.168, 169.
 1939 *Sepia latimanus*: Adam, Siboga, p.41, pl.1, fs.1-3.
 1963 *Sepia latimanus*: Voss, Bull. USNM, 234, p. 26, pl.1, fs. d,e, tfs. 2d, 3b.
 1966 *Sepia latimanus*: Adam & Rees, John Murray, 9(1), p.33, pl.11, fs.61-63; pl.45, f.269A.
 1987 *Sepia (Mesembrisepia) latimanus*: Okutani, Tagawa & Horikawa, Ceph. Cont. Shelf. Japan, p. 34-35.
 2000 *Sepia latimanus*: Kubodera, Mar. Moll. Jap., p.1049, pl.522, f.1.
 Loc. (Cuttlebones) Shirahama (Sasaki); Kushimoto, Shionomisaki (Maeiwa).
 Dist. Kii Peninsula to tropical Indo-West Pacific.

Subgenus *Doratosepion* Rochebrune, 1884

Sepia (Doratosepion) lorigera Wülker, 1910 Usubeni-kouika (Ishikawa) Pl. 1, Fig. 8

- 1910 *Sepia lorigera* Wülker, Abh. Bayer. Akad. Wiss., 3(Suppl.1), p.12, fs.3,4,11-14.
 1912 *Sepia (Doratosepion) lorigera*: Berry, Proc. ANSP, 64, p. 422.
 1929 *Sepia lorigera*: Sasaki, J. Coll. Agr., Hokkaido Univ., 20. Suppl., p.189, pl.17, f.14, tf.108.
 1987 *Sepia (Doratosepion) lorigera*: Okutani, Tagawa & Horikawa, Ceph. Cont. Shelf. Japan, p. 50-51.
 2000 *Sepia (Doratosepion) lorigera*: Kubodera, Mar. Moll. Jap., p. 1951, pl.523, f.9.
 Loc. (Cuttlebone) Shirahama (Kubota).
 Dist. Sagami Bay to Kyushu, and the East China Sea.

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P L A T E

PLATE 1

- 1 *Striodentalium hosoi* (Habe, 1964) Yase-tsunogai
51.1 × 2.97 mm, off Kii-Oshima, 150 m
- 2 *Graptacme acicula* (Gould, 1859) Ryukyu-tsunogai
19.9 × 2.35 mm, off Kushimoto, 50-60 m
- 3 *Bathoxiphus tricarinatus* (Boissevain, 1906) Hishi-tsunogai
23.0 × 2.59 mm, off Shionomisaki
- 4 *Bathoxiphus soyomaruuae* Okutani, 1964 Soyo-tsunogai
11.2 × 1.09 mm, off Esuzaki, Susami, 1200 m
- 5 *Laevidentalium sominium* Okutani, 1964 Maboroshi-tsunogai
38.8 × 2.07 mm, off Wabuka, Kushimoto, 700 m
- 6 *Gadila opportuna* (Kuroda & Habe in Habe, 1961) Harabuto-tsunogai
6.23 × 0.93 mm, off Izumo, Kushimoto
- 7 *Sepia (s.s) latimanus* Quoy & Gaimard, 1832 Kobushime
460 × 160 mm, stranded at Ogoke, Kushimoto
- 8 *Sepia (Doratosepion) lorigera* Wülker, 1910 Usubeni-kouika
193.0 × 55 mm, stranded at Shirahama

