

Pycnogonids from Toyama Bay, Japan.

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富山湾から採集されたウミグモ類

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富山湾で採集されたウミグモ類について報告する。同定の結果は下記の3科5属7種であった。このうち、*Anoplodactylus carnatus* は従来本州南岸（相模湾，駿河湾）でのみ発見された種であり、*Nymphon uniunguiculata* はシベリア沿岸，北海道西岸および韓国東岸から報告されていた種である。

Family Ammotheidae イソウミグモ科

Achelia bituberculata Hedgpeth, 1949 フタイボイソウミグモ

Achelia echinata sinensis (Lou, 1936) トゲイソウミグモ

Ammothea hilgendorfi (Böhm, 1879) シマウミグモ

Family Phoxichilidiidae ソコウミグモ科

Anoplodactylus carnatus Nakamura & Child, 1983 カルナツスチビウミグモ

Phoxichilidium ungelatum Hedgpeth, 1949 ホソウミグモ

Family Nymphonidae ユメムシ科

Nymphon striatum Losina-Losinsky, 1929 ツノユメムシ

Nymphon uniunguiculata Losina-Losinsky, 1933 ヒトツツメユメムシ

There is only one report on pycnogonids from Toyama Bay. Hedgpeth (1949) reported five species of pycnogonids of this area in the materials of Albatross Expedition done in 1906.

The specimens in this expedition was all from the deep sea over 100 meters and there has been no report on shallow water pycnogonids in this area.

In the present paper, 7 species of pycnogonids, which have been collected from either shallow or deep water, were described. This is the first report of shallow water pycnogonids from Toyama Bay, and six of seven species were new records.

Family Ammotheidae *Achelia bituberculata* Hedgpeth, 1949

*Contributions from the Toyama Science Museum, No.161

(Jap. name: Futaibo-isoumigumo)

Achelia bituberculata Hedgpeth, 1949: 287-289, fig.41a-g. ---Stock, 1954: 94-95, fig.44. ---Nakamura & Child, 1983: 6-7 [literature]; 1993: 3. ---Kim, 1984: 537, fig.6a-i. ---Kim & Hong, 1986: 46. ---Nakamura, 1987: 18-19, pl.16. ---Kim & Hong, 1987: 141.

Material examined: 1♂ with eggs, 1 juv., Amaharashi, Takaoka-shi, Toyama Pref., littoral zone, coll. Noboru Nunomura, 20 Aug. 1976.

Distribution. ---This species is widely found around the coast of Japan and South Korea from the littoral to 75 meters in depths.

***Achelia echinata sinensis* (Lou), 1936**

(Jap. name: Toge-isoumigumo)

Ammonothea (Achelia) echinata var. *sinensis* Lou, 1936: 19, figs.7-9, pls.2-4.

Achelia echinata sinensis. ---Nakamura & Child, 1993: 5 [literature].

Material examined: 1 juv., Kurosaki, Nanao-shi, Ishikawa Pref., littoral zone, coll. Noboru Nunomura, 22 Aug. 1982. 1 ♀, off Ogi, Uchiurachou, Ishikawa Pref., 11m, coll. Noboru Nunomura, 26 Jun. 1984.

Distribution. ---This species is known in northern China, Korea and various localities of Japan, along with a few specimens in eastern Russia. It has a rather wide range of shore depths to 336 meters.

***Ammonothea hilgendorfi* (Böhm), 1879**

(Jap. name: Shima-umigumo)

Corniger Hilgendorfi Böhm, 1879a: 187, pl.2, fig.3-3d.

Lecythorhynchus hilgendorfi. ---Böhm, 1879b: 140. ---Utinomi, 1971: 336 [literature].

Ammonothea hilgendorfi. ---Stock, 1956: 43, 45. ---Child, 1979: 8. ---Nakamura & Child, 1983: 13; 1991: 6. ---Kim & Hong, 1986: 48. ---Nakamura, 1987: 24-26, pl. 21. ---Hong & Kim, 1987: 183.

Material examined: 1 juv., Amaharashi, Takaoka-shi, Toyama Pref., littoral zone, coll. Noboru Nunomura, 20 Aug. 1976. 1 juv., the same place, coll. Noboru Nunomura, 6 Jun. 1982. 2 ♂, 1 ♀, 1 juv., Kurosaki, Nanao-shi, Ishikawa Pref., littoral zone, coll. Noboru Nunomura, 22 Aug. 1982. 2 juv., Magari, Notojima-machi, Ishikawa Pref., coll. Noboru Nunomura, 30 Jun. 1984.

Distribution. ---This species has been recorded from the China Coast to Northwestern Mexico and from Hawaiian and Society Islands.

Family Phoxichilidiidae

***Anoplodactylus carnatus* Nakamura & Child, 1983**

(Jap. name: Karunatsusu-chibiumigumo)

Anoplodactylus carnatus Nakamura & Child, 1983: 42-44, fig.14; 1991: 25.

Material examined: 1 ♀, Nakanami, Himi-shi, Toyama Pref., littoral zone, coll. Noboru Nunomura, 22 Jul. 1978.

Distribution. ---This species has been found only in Sagami and Suruga Bays. The above mentioned specimen was the first record from Japan Sea.

***Phoxichilidium ungelatum* Hedgpeth, 1949**

(Jap. name: hoso-umigumo)

Phoxichilidium ungelatum Hedgpeth, 1949: 281-283, fig.38. ---Stock, 1954: 71. ---Utinomi, 1955: 22, fig.12; 1971: 325. ---Nakamura & Child, 1991: 34-35.

Material examined: 1 ♂ with eggs, 1 ♂, 1 ♀, off Tomari, Asahi-machi, Toyama Pref., 110-180m, coll. Mieko Komatsu, 18 Jan. 1985.

Distribution. ---This species is widely collected around Japan with depth range from 0 to 479 meters.

Family Nymphonidae

***Nymphon striatum* Losina-Losinsky, 1929**

(Jap. name: Tsuno-yumemushi)

Nymphon striatum Losina-Losinsky, 1929: 538-539, fig.1. ---Utinomi, 1971: 319 [literature]. ---Hong & Kim, 1987: 160-161. ---Nakamura & Child, 1991: 61-62.

Material examined: 1 juv., off Tomari, Asahi-machi, Toyama Pref., 110-180m, coll. Mieko Komatsu, 18 Jan. 1985. 4 ♂ with eggs, 2 ♀, Shin-minato-shi, Toyama Pref., depth unknown, coll. Mieko Komatsu, 20 Mar. 1985.

Distribution. ---This species is known from Japan Sea, Sanriku-oki, around Hokkaido.

***Nymphon uniunguiculata* Losina-Losinsky, 1933**

(Jap. name: Hitotsutsume-yumemusi)

Nymphon uniunguiculata Losina-Losinsky, 1933: 62-64, 78-79. ---Hedgpeth, 1949: 293, fig.29. ---Kim, 1984: 534, fig.3a-f. ---Hong & Kim, 1987: 161.

Material examined: 1 ♀, Toyama Bay, coll. Rokuju-maru, depth and date unknown. 1 ♀, off Hamakurosaki, Toyama-shi, 200m in depth, coll. Nozomu Miyamoto, 31 Dec. 1990.

Distribution. ---This species has been collected around Japan Sea (eastern Russia, west coast of Hokkaido and east coast of Korea).

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Pycnogonids from Toyama Bay, Japan.

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