

The database of Japanese fossil type specimens described during 20th Century (part 3)

メタデータ	言語: eng 出版者: 公開日: 2021-04-09 キーワード (Ja): キーワード (En): 作成者: メールアドレス: 所属:
URL	https://doi.org/10.24517/00061606

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 International License.



Ostracoda

Noriyuki Ikeya, Gengo Tanaka and Akira Tsukagoshi

Institute of Geosciences, Faculty of Science, Shizuoka University, Shizuoka 422-8529, Japan

***Abrocythereis malaysiana* Malz and Tabuki, 1988**

Geologica et Palaeontologica, v. 22, p. 161, Pl. 1, figs. 2~4, Pl. 4, figs. 22, 23, text-figs. 2a, 3

Holotype: LV male, SMF Xe 13046 (Pl. 1, fig. 3), Paratypes: RV female, SMF Xe 13047a (Pl. 1, fig. 2, Pl. 4, fig. 23); RV male, SMF Xe 13047b (Pl. 1, fig. 4); LV female, SMF Xe 13049 (Pl. 4, fig. 22)

Off Seria, N of Borneo (depth 161 ft.) (St. Ms 7095 = sample leg. van Morkhoven)

Recent

[Paratypes consist of 6RV, 5LV and 5 juveniles, but SMF Xe 13048 (the specimens of 4 RV, 4LV and 5 juveniles) are not figured.]

***Abrocythereis ryukyuensis* Malz and Tabuki, 1988**

Geologica et Palaeontologica, v. 22, p. 164, Pl. 2, figs. 8~14, Pl. 3, fig. 21, text-figs. 2d, 5a-i

Holotype: LV male, UMUT CA 18143 (Pl. 2, fig. 14), Paratypes: SMF Xe 13551~13557, UMUT CA 18144~18180 LV juvenile, SMF Xe 13551a (Pl. 2, fig. 8); CC female, SMF Xe 13551b (Pl. 2, fig. 12); RV male, SMF Xe 13551c (Pl. 2, fig. 13); CC female, SMF Xe 13552a (Pl. 2, fig. 9); LV female, SMF Xe 13552b (Pl. 2, fig. 10); RV male, SMF Xe 13553 (Pl. 2, fig. 11); LV male, SMF Xe 13554 (Pl. 3, fig. 21); SMF Xe 13555 (29 specimens: 6 LV, 11 RV, 10 juveniles, 2 broken specimens); SMF Xe 13556 (10 specimens: 1 LV, 4 RV, 2 LV juveniles, 2 RV juveniles, 1 broken specimen); SMF Xe 13557 (9 specimens: 3 LV, 1 RV, 3 LV juveniles, 2 RV juveniles); UMUT CA 18144~18180 (2 CC, 19 V, 16 V juveniles)

Outcrop at Shinzato, SE of Naha, S Okinawa (Type Locality of Shinzato Formation) (26°46'36"N, 127°46'36"E) (sample no. Mz 85-37) (See Nohara & Tabuki, 1985, p. 8, Text-fig. 5.)

Shinzato Formation

Pliocene (N21 or NN 16) (See Tanaka and Ujiie, 1984.)

[Paratypes SMF Xe 13555~13557 and UMUT CA 18144~18180 are not figured.]

***Abrocythereis taiwanica* Malz and Tabuki, 1988**

Geologica et Palaeontologica, v. 22, p. 163, Pl. 1, figs. 5, 6, Pl. 4, fig. 27, text-figs. 2b, 4

Holotype: LV female, SMF Xe 13035 (Pl. 1, fig. 6), Paratypes: RV female, SMF Xe 13036a (Pl. 1, fig. 5); LV female, SMF Xe 13036b (Pl. 4, fig. 27)

Sample no. 7836 = Outcrop in road-cut near Tapanla, SE of Maanshan, SW Taiwan (Cheng, 1981, Text-fig. 1b)

Maanshan Formation

Pleistocene

[Paratypes SMF Xe 13037~13041 (the specimens of 11LV and 13RV) are not figured.]

***Abrocythereis yajimae* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 44, 45, Pl. 8, figs. 2a~c

Holotype: RV, RUEG 118 (Pl. 8, figs. 2a~c)

Loc. 75122802-C = Ca. 1 km WNW of Asato, Gushikami-son, Shimajiri-gun, Okinawa Prefecture (26°07'12"N, 127°43'12"E)

Chinen Formation

Pleistocene

[Sample horizon = Ca. 2 m above the road level (bluish gray silty sand)]

***Abyssocythereis* Schornikov, 1975**

Zool. Jour., v. 54, no. 4, p. 521, 522

Type species: *Abyssocythereis vitjasi* Schornikov, 1975

***Abyssocythereis vitjasi* Schornikov, 1975**

Zool. Jour., v. 54, no. 4, p. 522~524, figs. 2a~c, 3a~p

Holotype: CC male with appendages, FESC 1/1180~1/1181 (figs. 2a, 3a, c, d, f~i, k~p), Paratypes: CC male FESC 2/1182 (fig. 2c); CC female with appendages, FESC 3/1185 (figs. 2b, 3b, e, j); 1 female (no numbers)

NW of Kurile-Kamchatka trough (45°26'N, 154°12'E) (depth 5200 m)

Recent

***Acanthocythereis* ? *niitsumai* (Ishizaki, 1971)**

[See *Trachyleberis niitsumai* Ishizaki, 1971.]

***Acanthocythereis fujinaensis* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 12, figs. 5-5, 7-11a~d, 12a~e, 13a~c

Holotype: CC male, SUM CO 1231 (figs. 7-11a~d), Paratypes: LV female, SUM CO 1232 (figs. 7-12a~e); RV female, SUM CO 1233 (figs. 7-13a~c); LV female, SUM CO 1234 (fig. 5-5)

Loc. 1-A13 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 7 m below the top of the Lower Member of Fujina Formation]

***Acanthocythereis izumoensis* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 13, figs. 5-6, 8-1a~e, 2a~c, 3a~c, 4a~c

Holotype: LV male, SUM CO 1235 (figs. 8-1a~e), Paratypes: RV male, SUM CO 1236 (figs. 8-2a~e); LV female, SUM CO 1237 (figs. 8-3a~c); RV female, SUM CO 1238 (figs.

8-4a~c); LV female, SUM CO 1239 (fig. 5-6)

Loc. 1-A16 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35° 25.5'N, 133° 02.3'N) Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 4 m below the top of the Lower Member of Fujina Formation]

***Acanthocythereis koreana* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 39, Pl. 3, figs. 6~12

Holotype: RV female, CNU O 533 (Pl. 3, fig. 7), Paratypes: LV female, CNU O 534 (Pl. 3, fig. 6); RV female, CNU O 535 (Pl. 3, fig. 8); LV female, CNU O 536 (Pl. 3, fig. 9); RV male, CNU O 537 (Pl. 3, fig. 10); LV male, CNU O 538 (Pl. 3, fig. 11); LV male, CNU O 539 (Pl. 3, fig. 12)

Sample DJ-1 = Daejonri area of Yeongil-gun, ca. 13 km N of Pohang, SE coast of Korean Peninsula

Yeonil Group

Middle Miocene

***Acanthocythereis munechikai* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 45, 46, Pl. 9, figs. 1, 2a~c, 3; Pl. 14, fig. 8; Pl. 15, figs. 3, 4

Holotype: LV, IGPS 97033 (Pl. 9, figs. 2a~c; Pl. 14, fig. 8; Pl. 15, fig. 3), Paratypes: RV, IGPS 97034 (Pl. 9, fig. 3; Pl. 15, fig. 4); RV, IGPS 97035 (Pl. 9, fig. 1)

St. 54 = S of Cheju-do (30° 30.0'N, 126° 30.0'E) (medium sand, depth 90 m)

Recent

***Acanthocythereis mutsuensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 93, 94, Pl. 1, fig. 7, Pl. 5, fig. 2, Pl. 6, fig. 4

Holotype: LV, IGPS 91708 (Pl. 5, fig. 2, Pl. 6, fig. 4), Paratype: RV, IGPS 91709 (Pl. 1, fig. 7)

St. 90 = Aomori Bay, Aomori Prefecture (41° 01' 20''N, 140° 49' 18''E) (mud, depth 45 m)

Recent

[=*Acanthocythereis* ? *mutsuensis* Ishizaki, 1971 (by Hanai et al., 1977)]

***Acanthocythereis tsurugasakensis* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 84~86, Pl. 11, figs. 2~10, text-fig. 20-2

Holotype: RV female, UMUT CA 15855 (Pl. 11, figs. 2, 10), Paratypes: RV male, UMUT CA 15856 (Pl. 11, figs. 3, 8); LV male, UMUT CA 15857 (Pl. 11, figs. 4, 7, 9, text-fig. 20-2); RV immature form, UMUT CA 15858 (Pl. 11, fig. 5); LV immature form, UMUT CA 15859 (Pl. 11, fig. 6)

Loc. S5 = An exposure along the road leading southward to Ushu-Kaido, 1 km NW of eastern entrance of Shin-Daishaka tunnel, Aomori-shi, Aomori Prefecture (40° 46' 44''N, 140° 36' 15''E)

Daishaka Formation

Plio-Pleistocene

***Acanthocythereis uniformiteris* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 97, Pl. 7, figs. 9~11, 13, 14, text-fig. 30

Holotype: TNUM 8155, Paratypes: RV, TNUM 8156 (Pl. 7, figs. 10, 11); TNUM 8157; TNUM 8158

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

[Three figures (Pl. 7, figs. 9, 13, 14) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8155, 8157, 8158).]

***Acanthocythereis wenzhouensis* Yang, 1990**

Acta Micropalaeontologica Sinica, v. 7, no. 4, p. 378, Pl. 2, figs. 14, 15

Holotype: CC, 111251 (Pl. 2, figs. 14, 15)

Hole W6-1-1 (core) = 160 km E of Wenzhou City, SW of East China Sea (27° 50'N, 122° 50'E)

Lower Wenzhou Formation

Middle Eocene

***Acetabulastoma obtusatum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 210, 211, text-fig. 43

Holotype: CC male FESC 456~457, Paratype: 7 males, 15 females, instars (no numbers)

Lower and middle littoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Island, Kuril Islands

Recent

[The figures (text-fig. 43) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Acetabulastoma subrhomboideum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 209, 210, text-fig. 42

Holotype: CC male, FESC 454~455, Paratype: 22 males, 33 females, instars (no numbers)

Lower and middle littoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Island, Kuril Islands

Recent

[The figures (text-fig. 42) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Actinocythereis donghaiensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological

Publishing House Press, Beijing, p. 154, 155, Pl. 169, figs. 11~13

Holotype: CC, DJ 0086 (Pl. 169, fig. 11), Paratypes: CC, RV 0087 (Pl. 169, fig. 12); CC, DJ 0088 (Pl. 169, fig. 13)

East China Sea

Oujiang Formation

Early Eocene

***Actinocythereis kisarazuensis* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 399, 400, Pl. 49, figs. 3a, b, text-fig. 9, fig. 1

Holotype: LV, UMUT CA 8420 (Pl. 49, fig. 3b, text-fig. 9, fig. 1), Paratype: RV, UMUT CA 8421 (Pl. 49, fig. 3a)

Loc. 37 = An exposure, 300 m NNE of the Chiba Prefectural Kazusa Museum, Ota, Kisarazu-shi, Chiba Prefecture (35° 22'42''N, 139° 56'40''E)

Narita Formation (Kami-Iwahashi Member)

Pleistocene

***Acuticythereis sendaiensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 145, Pl. 19, fig. 18, 19, text-fig. 1, fig. 6

Holotype: RV, IGPS 87047 (Pl. 19, fig. 18, text-fig. 1, fig. 6), Paratype: LV, IGPS 87048 (Pl. 19, fig. 19)

Down stream of the Tatsunokuchi gorge in the western part of Sendai-shi, Miyagi Prefecture

Tatsunokuchi Formation

Pliocene

[=*Acuticythereis ? sendaiensis* Ishizaki, 1966 (by Checklist of 1977)]

***Actinocythereis spinosa* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 155, Pl. 169, fig. 5

Holotype: RV, DJ 0107 (Pl. 169, fig. 5)

East China Sea

Donghai Group

Pleistocene to Holocene

***Aglaioocypris nipponica* Okubo, 1980**

Proc. Japan Soc. Syst. Zool., no. 18, p. 17~20, text-figs. 1a~k, Pl. 1, figs. e, f

Holotype: CC female with appendages, MO 492 (=NSMT-Cr 15251) (text-figs. 1a~k) Paratype: CC female, MO 493 (Pl. 1, figs. e, f) (the specimen missing)

The intertidal zone, near the Mukaishima Marine Biological Station, Minatomachi, Takehara, Hiroshima Prefecture (34° 21.7'N, 133° 13.2'E) (muddy sand)

Recent

***Alcopocythere? ishizakii* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 42, 43, Pl. 1, figs. 1a, b, 2a, b, 3

Holotype: CC, RUEG 113 (Pl. 1, figs. 1a, b), Paratypes: CC, RUEG 178 (Pl. 1, figs. 2a, b); RV immature form, RUEG 179 (Pl. 1, fig. 3)

Core 2 = Oroku, SW of Naha-shi, Okinawa Prefecture (26° 12'00''N, 127° 40'33''E)

Tomigusuku Formation

Late Miocene

***Aluta chiushuensis* Kobayashi, 1934**

Japan. Jour. Geol. Geogr., v. 11, no. 3~4, p. 168, text-fig. 1, Pl. 18, fig. 17

Holotype: UMUT

Huolienchai, South Manchuria

Chiushukou shale

Ordovician

***Aluta obsoleta* Saito, 1934**

Japan. Jour. Geol. Geogr., v. 11, p. 233, text-figs. 7, 8

Holotype: UMUT

Ssukkol, Heukkyon-myön, Huanghai-dô, Korea

Protolenus shale

Cambrian

***Alutella nakamurai* Kobayashi and Kato, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 8, pt. 3, p. 139, Pl. 3, fig. 15

Holotype: UMUT

Sanchihlipu station, Liaotung, South Manchuria

Sanshihlpe stage

Cambrian

***Ambocythere decora* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 157, 158, Pl. 170, figs. 15, 16

Holotype: CC, DJ 0061 (Pl. 170, figs. 15, 16)

East China Sea

Oujiang Formation

Early Eocene

***Ambocythere japonica* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 39, 40, Pl. 2, fig. 9, Pl. 8, figs. 15~17

Holotype: RV, IGPS 90307 (Pl. 2, fig. 9, Pl. 8, fig. 17), Paratypes: RV, IGPS 90308 (Pl. 8, fig. 15); LV, IGPS 90309 (Pl. 8, fig. 16)

St. 303 = Uranouchi Bay, Kochi Prefecture (33° 24'57''N, 133° 26'53''E) (coarse sand, depth 25 m)

Recent

[=*Pacambocythere japonica* (Ishizaki, 1968) (by Ikeya and Suzuki, 1992)]

***Ambocythere ovata* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 158, Pl. 170, figs. 3, 4

Holotype: RV, DJ 0108 (Pl. 170, figs. 3, 4)

East China Sea

Donghai Group

Pleistocene to Holocene

***Ambocythere planata* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 101, 102, Pl. 2, figs. 23, 25~27, text-fig. 23

Holotype: TNUM 7033 (Pl. 2, fig. 23), Paratypes: TNUM 7034~7036 (Pl. 2, figs. 25~27)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Three figures (Pl. 2, figs. 25~27) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 7034~7036).]

***Ambocythere subovate* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 102, 103, Pl. 6, figs. 23, 26, text-fig. 35

Holotype: LV, TNUM 8242 (Pl. 6, figs. 23, 26)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

***Ambocythere uchinaensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 45, Pl. 5, figs. 1a~c

Holotype: RV, RUEG 119 (Pl. 5, figs. 1a~c)

Loc. 76121501A = Ca. 500 m SE of Shinzato, Sashiki-cho, Shimajiri-gun, Okinawa Prefecture (Type locality of Shinzato Formation) (26° 9'40"N, 127° 46'36"E)

Shinzato Formation

Pliocene

[Sample horizon = Ca. 5 m below the base of the upper most carbonized woods bed (bluish gray silt)]

***Ambocythere undulata* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy

of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 158, Pl. 170, figs. 1, 2

Holotype: RV, DJ 0001 (Pl. 170, fig. 1), Paratype: LV, RV 0002 (Pl. 170, fig. 2)

East China Sea

Donghai Group

Pleistocene to Holocene

***Ambolus coniunctus* Ikeya, Jellinek and Tsukagoshi, 1998**

Palaeontologische Zeitschrift, Stuttgart, v. 72, nos. 3/4, p. 317, 319, 320, figs. 2-1a, 1b, 2, 3a, 3b, 4a, 4b, 5a, 5b, 6~10, figs. 3-1a~f, 2a~c, figs. 4-1~4-8, 4-12, figs. 5-5, 5-6a~c

Holotype: CC male, P50782 (figs. 2-3a, 3b), Paratypes: CC female, SMF Xe 18366 (figs. 2-1a, 1b); LV male, SMF Xe 18367 (fig. 2-2); RV male, SMF Xe 18368 (figs. 2-4a, 4b); LV female, SMF Xe 18369 (figs. 2-5a, 5b); RV female, SMF Xe 18370 (fig. 2-6); CC female, UMUT number8 (fig. 2-7); CC female, SMF Xe 18371 (fig. 2-9); CC male, SMF Xe 18372 (fig. 2-10); CC female juvenile (A-1 stage), SMF Xe 18373 (figs. 4-1, 2); CC male juvenile (A-1 stage), SMF Xe 18374 (figs. 4-3, 4); CC juvenile (A-2 stage), SMF Xe 18375 (figs. 4-5, 6); CC juvenile (A-3 stage), SMF Xe 18376 (figs. 4-7, 8); CC female, SMF Xe 18376 (fig. 4-12); RV juvenile, SMF Xe 18389 (fig. 5-5); male appendages, P50783 and P50784 (figs. 3-1a~f, 2a~c); CC male, UMUT number9 (fig. 2-8); CC juvenile with appendages, UMUT collection (figs. 5-6a~c)

Tas 12 = Tide pool of rocky shore, Wynyard, N of Tasmania, Australia (40° 58'S, 145° 43'E)

Recent

***Ambolus* Ikeya, Jellinek and Tsukagoshi, 1998**

Palaeontologische Zeitschrift, Stuttgart, v. 72, nos. 3/4, p. 312, 314

Type species: *Cythere pumila* Brady, 1866

***Ambostracon costatelle* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 93, 94, Pl. 2, figs. 11, 16, text-fig. 26

Holotype: CC, TNUM 8135 (Pl. 2, figs. 11, 16)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

***Ambostracon granulosa* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 100, Pl. 3, figs. 14~16, 26, text-fig. 21

Holotype: TNUM 7052, Paratypes: TNUM 7050; TNUM 7051

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°

56.3°N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Four figures (Pl. 3, figs. 14~16, 26) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7050~7052).]

***Ambostracon ikeyai* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 394, 395 (Pl. 49, figs. 5a~c, Pl. 50, figs. 1, 2, text-fig. 7, figs. 2a, b)

Holotype: CC, UMUT CA 8433 (Pl. 49, fig. 5c), Paratypes: LV, UMUT CA 8434 (Pl. 49, fig. 5b, Pl. 50, figs. 1, 2, text-fig. 7, fig. 2a); RV, UMUT CA 8435 (Pl. 49, fig. 5a, text-fig. 7, fig. 2b)

Loc. 41 = A cliff, 700 m W of the Kazusa-Kiyokawa Station, Nakao, Kisarazu-shi, Chiba Prefecture (35°23'05"N, 139°57'43"E)

Narita Formation (Kiyokawa Member)

Pleistocene

***Ambostracon kitanipponica* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p.74~76, Pl. 10, figs. 1~8, text-fig. 18-8

Holotype: LV female, UMUT CA 15812 (Pl. 10, figs. 2, 5, 7), Paratypes: RV female, UMUT CA 15813 (Pl. 10, figs. 1, 6, 8); RV male, UMUT CA 15814 (Pl. 10, fig. 3); LV male, UMUT CA 15815 (Pl. 10, fig. 4, text-fig. 18-8)

Loc. S1 = An exposure along the road leading southward to Ushu-Kaido, 2 km NW of eastern entrance of Shin-Daishaka tunnel, Aomori-shi, Aomori Prefecture (40°47'24"N, 140°36'15"E)

Daishaka Formation

Plio-Pleistocene

[=*Hemicythere?* *kitanipponica* (Tabuki, 1986) (by Cronin and Ikeya, 1987)]

***Ambostracon metanodulose* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 94, 95, Pl. 2, figs. 15, 20, text-fig. 27

Holotype: LV, TNUM 8137 (Pl. 2, figs. 15, 20)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[=*Robustaurila kianohybrida* (Hu, 1984) (by Hino and Ikeya, 1990)]

***Ambostracon nodulosa* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 99, 100, Pl. 3, figs. 8, 11, 18, 22, text-fig. 20

Holotype: TNUM 7047, Paratypes: TNUM 7045; TNUM 7546; TNUM 7048 (Pl. 3, fig. 22)

Outcrop along the Hengchun to Olanpi Highway, N coast of

the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Three figures (Pl. 3, figs. 8, 11, 18) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7045~7047).]

***Ambtonia* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 390

Type species: *Ambtonia glabra* Malz, 1982

***Ambtonia glabra* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 391, Pl. 6, figs. 43, 44, Pl. 7, figs. 45~50, table 2

Holotype: RV male, SMF Xe 12335 (Pl. 7, fig. 47),

Paratypes: RV female, SMF Xe 12336a (Pl. 7, fig. 46);

LV male, SMF Xe 12336b (Pl. 7, fig. 50); LV female,

SMF Xe 12337a (Pl. 7, fig. 48); RV female, SMF Xe

12337b (Pl. 7, fig. 49); LV female, SMF Xe 12338 (Pl.

7, fig. 45); SMF Xe 12339~12347 (no figures)

SSW of Maanshan, SW Taiwan

Maanshan Formation

Pliocene

***Ambtonia obai* (Ishizaki, 1971)**

[See *Basslerites obai* Ishizaki, 1971.]

***Ambtonia shimanensis* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 17, figs. 5-8, 9-1a~c, 2a~e

Holotype: RV female, SUM CO 1250 (figs. 9-2a~e),

Paratypes: LV female, SUM CO 1251 (figs. 9-1a~c); LV,

SUM CO 1252 (fig. 5-8)

Loc. 1-A11 = An outcrop, ca. 0.5 km NE of Fujina,

Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 10 m below the top of the Lower Member of Fujina Formation]

***Ambtonia takayasui* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 17, 18, figs. 5-9, 9-3a~e, 4a~c, 6a~c

Holotype: LV female, SUM CO 1253 (figs. 9-3a~e),

Paratypes: RV female, SUM CO 1254 (figs. 9-4a~c); RV

male, SUM CO 1255 (figs. 9-6a~c); LV female, SUM CO

1256 (fig. 5-9)

Loc. 1-A16 = An outcrop, ca. 0.5 km NE of Fujina,

Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 4 m below the top of the Lower Member of Fujina Formation]

***Amphileberis nipponica* (Yajima, 1978)**

[See *Lixouria nipponica* Yajima, 1978.]

***Amphissites kitakamiensis* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 56, Pl. 1, figs. 7, 8

Holotype: LV, IGPS 87076 (Pl. 1, fig. 8), Paratype: RV, IGPS 87075 (Pl. 1, fig. 7)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Anchistrocheles hondai* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 60~62, figs. 5-6, 11-5a, b

Holotype: RV, UMUT CA 17981 (figs. 5-6, 11-5a, b)

Loc. 0501 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34° 37' 20'' N, 137° 15' 30'' E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon = Ca. 1 m above the base of the Tonna Bed]

***Anchistrocheles yamaguchii* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 62, figs. 5-3, 4, 11-3a, b, 4a, b

Holotype: LV, UMUT CA 17982 (figs. 5-3, 11-4a, b), Paratype: a broken RV, UMUT CA 17983 (figs. 5-4, 11-3a, b)

Loc. 0602 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34° 37' 21'' N, 137° 15' 33'' E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon = The base of the Tonna Bed]

***Angulicytherura ? miii* (Ishizaki, 1969)**

[See *Tetracytherura miii* Ishizaki, 1969.]

***Angulicytherura rugosa* Schornikov and Dolgov, 1995**

Biologiya Morya, Vladivostok, v. 21, no. 1, p. 33~35, figs. 1-5~8, 4A

Holotype: CC male, FESC 1516~1517 (figs. 1-5, 1-6, 4A), Paratypes: 2 females (no numbers)

The Great Peter Bay, Sea of Japan (coarse sand, depth 5~8 m)

Recent

[The figures (figs. 1-7, 1-8) in the original description (Schornikov and Dolgov, 1995) cannot be correlated with each type specimen.]

***Angulicytherura* Schornikov and Dolgov, 1995**

Biologiya Morya, Vladivostok, v. 21, no. 1, p. 30, 31

Type species: *Angulicytherura urupica* Schornikov and Dolgov, 1995

***Angulicytherura truncata* Schornikov and Dolgov, 1995**

Biologiya Morya, Vladivostok, v. 21, no. 1, p. 35, 36, figs. 1-9, 1-10, 4B

Holotype: CC male with appendage, FESC 1599~1600 (figs. 1-9, 1-10, 4B)

The Great Peter Bay, Sea of Japan (coarse sand, depth 5~8 m)

Recent

***Angulicytherura urupica* Schornikov and Dolgov, 1995**

Biologiya Morya, Vladivostok, v. 21, no. 1, p. 32, 33, figs. 1-1, 1-2, 2-1~17

Holotype: male, FESC 490-491 (fig. 1-2), Paratype: 2 male, 18 female, 1 juvenile (A-1 Stage), 64 valves (no numbers)

A Bay of Urup Island, Kuril Islands (mud, depth 0.3 m)

Recent

[The figures (figs. 1-1, 2-1~17) in the original description (Schornikov and Dolgov, 1995) cannot be correlated with each type specimen.]

***Angulicytherura ventroangulata* Schornikov and Dolgov, 1995**

Biologiya Morya, Vladivostok, v. 21, no. 1, p. 33, figs. 1-3, 1-4, 3-1~16

Holotype: male, FESC 1165~1166, Paratype: 581 valves (no numbers)

The Great Peter Bay, Sea of Japan (coarse sand, depth 3.5 m)

Recent

[The figures (figs. 1-3, 1-4, 3-1~16) in the original description (Schornikov and Dolgov, 1995) cannot be correlated with each type specimen.)]

***Aponesidea tanegashimensis* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 66, 67, Pl. 1, figs. 7a~d

Holotype: CC, JC-1357 (Pl. 1, figs. 7a~d)

No. 71 (GH84-3) = Ca. 28 km SE off Misaki, Tanegashima, Kagoshima Prefecture (30° 36.7' N, 131° 12.3' E) (gravelly very coarse sand, depth 90 m)

Recent

***Argilloecia hanaii* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 41~43, Pl. 8, figs. 1, 2, 3a, b, 4; Pl. 15, figs. 1, 2

Holotype: LV, IGPS 97038 (Pl. 8, figs. 3a, b; Pl. 15, fig. 1), Paratypes: RV, IGPS 97039 (Pl. 8, fig. 4; Pl. 15, fig. 2); RV, IGPS 97040 (Pl. 8, fig. 1); LV, IGPS 97041 (Pl. 8, fig. 2)

St. 5 = Off Haimen (27° 44.0' N, 123° 00.0' E) (fine sand, depth 87 m)

Recent

***Argilloecia toyamaensis* Ishizaki and Irizuki, 1990**

Cour. Forsch.-Inst. Senckenberg, no. 123, p. 63, 64, Pl. 1, figs. 1~6, Text-figs. 9, 10

Holotype: RV, IGPS 101230 (Pl. 1, fig. 6), Paratypes: LV, IGPS 101231 (Pl. 1, fig. 3); LV, IGPS 101232 (Pl. 1, fig. 2, text-fig. 9); RV, IGPS 101233 (Pl. 1, fig. 1, text-fig. 10); RV, IGPS 101234 (Pl. 1, fig. 5); LV, IGPS 101235 (Pl. 1, fig. 4)
St. 156 = Toyama Bay (37°32.5'N, 137°27.5'E) (silty clay, depth 580 m)
Recent

***Asterope brevis* G.W. Müller, 1890**

Zool. Jahrb. System., no. 5, p. 239, 240, Pl. 25, figs. 10, 14, Pl. 26, figs. 7, 12, Pl. 27, figs. 7~10, 15, 16
Holotype: not designated (ZMB collection)
Off Enoshima, Fujisawa-shi, Kanagawa Prefecture (depth 15 m)
Recent
[=*Cycloleberis brevis* (G.W. Müller, 1890) (by Kajiyama, 1912)]

***Asterope fusca* G. W. Müller, 1890**

Zool. Jahrb. System., v. 5, p. 242, 243, Pl. 25, figs. 11-13, Pl. 27, figs. 19-22, 25
Syntypes: CC female with appendages, ZMB 6977 (figs. 127, 128a~g, 129a~d in Kornicker, 1981), 4 CC individuals (ZMB collection) (by Kornicker, 1981)
Off Enoshima, Fujisawa-shi, Kanagawa Prefecture (depth 15 m)
Recent
[=*Asteropteron fuscum* (G. W. Müller, 1890) (by Skogsberg, 1920). The specimens of G. W. Müller were collected by F. Hilgendorf in the period of 1873 to 1876 (G. W. Müller, 1890)]

***Asterope hilgendorffii* G.W. Müller, 1890**

Zool. Jahrb. System., no. 5, p. 241, Pl. 25, fig. 15, Pl. 26, figs. 8, 12, Pl. 27, figs. 4~6, 17
Holotype: not designated (ZMB collection)
Off Enoshima, Fujisawa-shi, Kanagawa Prefecture (depth 15 m) [= *Cyclasterope hilgendorffii* (G.W. Müller, 1890) (by Hanai *et al.*, 1977)]

***Asteropteron fuscum* (G. W. Müller, 1890)**

[See *Asterope fusca* G. W. Müller, 1890.]

***Aurikirkbya ? brevis* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 51, 52, Pl. 1, figs. 5, 6
Holotype: LV, IGPS 87064 (Pl. 1, fig. 5), Paratype: RV, IGPS 87065 (Pl. 1, fig. 6)
1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture
Tassobe Formation
Lower Permian

***Aurikirkbya ? hinomataensis* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 52, Pl. 1, figs. 14, 15
Holotype: RV, IGPS 87066 (Pl. 1, fig. 14), Paratype: RV, IGPS 87067 (Pl. 1, fig. 15)
1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture
Tassobe Formation
Lower Permian

***Aurikirkbya ? lata* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 52, 53, Pl. 1, fig. 9
Holotype: LV, IGPS 87068 (Pl. 1, fig. 9)
1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture
Tassobe Formation
Lower Permian

***Aurikirkbya ? tenuise* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 53, 54, Pl. 1, fig. 13
Holotype: RV, IGPS 87069 (Pl. 1, fig. 13)
1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture
Tassobe Formation
Lower Permian

***Aurikirkbya formula* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 143, 144, Pl. 16, figs. 3, 4, text-fig. 2
Holotype: RV, IGPS 85772 (Pl. 16, fig. 3, text-fig. 2), Paratype: RV, IGPS 85773 (Pl. 16, fig. 4)
Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture
Iwaizaki Limestone (Unit G, black limestone)
Permian

***Aurikirkbya subkellettae* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 144, 145, Pl. 16, figs. 5, 6, text-fig. 3
Holotype: LV, IGPS 85774 (Pl. 16, fig. 5, text-fig. 3), Paratype: LV, IGPS 85775 (Pl. 16, fig. 6)
Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture
Iwaizaki Limestone (Unit G, black limestone)
Permian
[=*Aurikirkbya ? subkellettae* Ishizaki, 1964 (by Hanai *et al.*, 1977)]

***Aurila acostata* Schornikov and Tsareva, 1995**

Mitt. Hamburg Zool. Mus. Inst., v. 92, p. 238~241, text-figs. 2-1~8, 3-1~12, Pl. 1, figs. 1~7, 9~12, Pl. 2, figs. 9~12
Holotype: CC male, FESC1799~1800 (Pl. 1, figs. 1, 2),

Paratypes: 30 specimens, 163 valves (no numbers)

Off the Verkhovskogo Islands, the Great Peter Bay, Sea of Japan (depth 45 m)

Recent

[The figures (text-figs. 2-1~8, 3-1~12, Pl. 1, figs. 3~7, Pl. 2, figs. 9~12) in the original description (Schornikov and Tsareva, 1995) cannot be correlated with each type specimen.]

***Aurila corniculata* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 399, 400, figs. 10g~j

Holotype: CC female, MO 1105 (no figures) (the specimen missing), Paratypes: CC female, MO 306 (=NSMT-Cr 15252) (no figures); CC female, MO 1106 (figs. 10g, h) (the specimen missing); CC female, MO 1115 (figs. 10i, j) (the specimen missing)

St. 1 = The intertidal zone, Hosono-su Sand Bank, Inno-shima-shi, Hiroshima Prefecture (34° 21.9'N, 133° 08.0'E) (sandy mud)

Recent

[Paratype specimens are figured as figs. 10g, h (MO 1106) and figs. 10i, j (MO 1115), but the figures of holotype (MO 1105) specimens is not shown.]

***Aurila cymba* (Brady, 1869)**

[See *Cythere cymba* Brady, 1869.]

***Aurila disparata* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 402, 403, figs. 4a~i, 7e, f, 9e~j

Holotype: CC male with appendages, MO 686 (=NSMT-Cr 15253) (figs. 4a~i, 7e, f), Allotype: CC female, MO 687 (=NSMT-Cr 15254) (no figures), Paratypes: CC male, MO 1047 (figs. 9g, h) (the specimen missing); CC female, MO 1048 (figs. 9e, f) (the specimen missing); CC female, MO 1093 (figs. 9i, j) (the specimen missing)

St. 12 = The intertidal zone, rocky shore, Ohama, Kurashiki-shi, Okayama Prefecture (34° 25.6'N, 133° 49.4'E)

Recent

***Aurila elongata* Schornikov and Tsareva, 1995**

Mitt. Hamburg Zool. Mus. Inst., v. 92, p. 244~246, text-figs. 5-1~11, Pl. 3, figs. 1~7

Holotype: CC male, FESC1801~1802 (Pl. 3, figs. 3, 4), Paratypes: 49 specimens, 49 valves (no numbers)

Rocky shore of Vostok, the northern Chuprov Bight, off Moneron Island, Sea of Japan (on algae, depth 3~4 m)

Recent

[The figures (text-figs. 5-1~11, Pl. 3, figs. 1, 2, 5~7) in the original description (Schornikov and Tsareva, 1995) cannot be correlated with each type specimen.]

***Aurila formosana* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 198, 199, Pl. 1, figs. 1~6, text-fig. 9

Holotype: CC, CKUM 3000 (Pl. 1, figs. 4, 5), Paratype: RV, CKUM 3001 (Pl. 1, fig. 2); LV, CKUM 3002 (Pl. 1, fig. 1); LV, CKUM 3003 (Pl. 1, fig. 3); CKUM 3004 (Pl. 1, fig. 6); CKUM 3005~3015 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

[=*Robstaurila formosana* (Hu and Cheng, 1977) (by this paper)]

***Aurila grata* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 105, Pl. 1, fig. 24, Pl. 2, figs. 1, 6, 8

Holotype: CKUM 1006 (Pl. 1, fig. 24), Paratypes: CC, CKUM 1004 (Pl. 2, figs. 6, 8); CKUM 1005 (Pl. 2, fig. 1)

Mc-1 or 4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

[2 sample horizons for type locality are designated in Hu and Yang (1975, p. 105). The sample horizons of Mc-1 to Mc-6 are indicated from bottom to top of the Chinsui Shale.]

***Aurila hataii* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 20, 21, Pl. 1, figs. 5, 6, Pl. 4, figs. 5, 6

Holotype: CC, IGPS 90229 (Pl. 1, figs. 5, 6, Pl. 4, figs. 5, 6)

St. 303 = Uranouchi Bay, Kochi Prefecture (33° 24'57"N, 133° 26'53"E) (coarse sand, depth 25 m)

Recent

***Aurila ikeyai* Okubo, 1988**

Hanai *et al.* (eds.), Evolutionary Biology of Ostracoda, its fundamentals and applications, Kodansha, Tokyo, p. 142, text-figs. 1d~i, 5e, 5f

Holotype: CC male with appendages, MO 1927 (=NSMT-Cr 15255) (text-figs. 1d, 1e), Paratypes: CC male with appendages, MO 1642 (=NSMT-Cr 15256) (text-figs. 1g, 5e, 5f); male and female, MO 1641 (no figures) (the specimen missing); CC male with appendages, MO 1639 (=NSMT-Cr 15257) (text-fig. 1f); male appendage, MO 1640 (text-fig. 1h); male appendage, MO 1689 (text-fig. 1i) (the specimen missing)

The intertidal zone, rocky shore, Aburatsubo, Misaki-shi, Kanagawa Prefecture (on algae) (35° 09.2'N, 139° 36.9'E)

Recent

***Aurila imotoi* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 21,

22, Pl. 1, figs. 7, 8, Pl. 4, figs. 3, 4

Holotype: CC, IGPS 90230 (Pl. 1, figs. 7, 8, Pl. 4, figs. 3, 4)

St. 302 = Uranouchi Bay, Kochi Prefecture (33°24'49"N, 133°26'35"E) (coarse sand, depth 32 m)

Recent

***Aurila inabai* Okubo, 1976**

Proc. Japan Soc. Syst. Zool., no. 12, p. 34~37, text-figs. 1a~i, Pl. 1, figs. 1a~r

Holotype: CC female with appendages, MO 329 (=NSMT-Cr 15258) (text-figs: 1a, b, Pl. 1, figs. p~r), Paratypes: CC male with appendages, MO 311 (=NSMT-Cr 15259) (no figures); CC male with appendages, MO 313 (=NSMT-Cr 15260) (text-figs. 1c~i, Pl. 1, figs. e, f, m); CC male with appendages, MO 314 (Pl. 1, figs. n, o); CC female, MO 326 (Pl. 1, figs. a, b); CC male, MO 327 (no figures); CC juvenile (A-1 stage), MO 328a (Pl. 1, figs. h~j); CC juvenile (A-2 stage), MO 328b (Pl. 1, figs. k, l); CC female with appendages, MO 330 (=NSMT-Cr 15261) (no figures); 2 CC females, MO 331, 332 (no figures)

Tidal zone of the rocky shore near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima-cho, Mitsugi-gun, Hiroshima Prefecture (34°21.7'N, 133°13.2'E)

Recent

***Aurila kianfascisma* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 76, Pl. 3, figs. 14~16, 19, 20, 23, 27, 28, text-fig. 12

Holotype: CC, TNUM 4162 (Pl. 3, figs. 27, 28), Paratypes: CC, TNUM 4159 (Pl. 3, figs. 14, 20); 3V, TNUM 4160 (Pl. 3, figs. 15, 16, 19); LV, TNUM 4161 (Pl. 3, fig. 23)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Aurila kiritsubo* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 210, 211, Pl. 13, figs. 9~11, Pl. 15, figs. 14, 16, text-figs. 16-3, 4

Holotype: LV female, UMUT CA 9863 (Pl. 13, fig. 10, Pl. 15, figs. 14, 16, text-fig. 16-3), Paratypes: RV, UMUT CA 9864 (Pl. 13, fig. 9, text-fig. 16-4); CC, UMUT CA 9865 (Pl. 13, fig. 11)

Loc. 49 = A small exposure, near Shimoike pond, 3 km SE of Sodegaura railway station, Sodegaura-machi, Kimitsu-gun, Chiba Prefecture (35°24'57"N, 139°59'30"E)

Kioroshi Formation (Toyonari Member)

Pleistocene

***Aurila magna* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 39, 40, Pl. 3, figs. 24, 25, 28, text-fig. 11

Holotype: CKUM 2010 (Pl. 3, fig. 28), Paratype: LV, CKUM 2011 (Pl. 3, figs. 24, 25)

Loc. 13 = 2.5 km SE of Tsaochiaio station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Aurila grada* Hu and Yang, 1975 (by Hu, 1983)]

***Aurila miii* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 22, Pl. 1, fig. 9, Pl. 4, figs. 1, 2

Holotype: LV, IGPS 90231 (Pl. 1, fig. 9, Pl. 4, fig. 2), Paratype: RV, IGPS 90232 (Pl. 4, fig. 1)

Uranouchi Bay, Kochi Prefecture

Recent

[=*Aurila cymba* (Brady, 1869) (by Hanai *et al.*, 1977)]

***Aurila modesta* Schornikov and Tsareva, 1995**

Mitt. Hambrug. Zool. Mus. Inst., v. 92, p. 247, Pl. 4, figs. 7~11

Holotype: LV male, FESC1803 (Pl. 4, fig. 10), Paratypes: 8 valves (no numbers)

East China Sea (27°20'N, 125°59'E) (fine sand, depth 160 m)

Recent

[The figures (Pl. 4, figs. 7~9, 11) in the original description (Schornikov and Tsareva, 1995) cannot be correlated with each type specimen.]

***Aurila munechikai* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 23, Pl. 4, figs. 7, 8

Holotype: CC, IGPS 90233 (Pl. 4, figs. 7, 8)

St. 315 = Uranouchi Bay, Kochi Prefecture (33°25'55"N, 133°27'37"E) (fine sand, depth 10.5 m)

Recent

***Aurila okayamensis* Okubo, 1988**

Hanai *et al.* (eds.), Evolutionary Biology of Ostracoda, its fundamentals and applications, Kodansha, Tokyo, p. 142

Holotype: CC male with appendages, MO 802 (=NSMT-Cr 15262) (figs. 3a~g, 7g, 7h, 8a~e in Okubo, 1980c), Paratypes: male and female, MO 923 (no figures); CC male (A-1 stage), MO 938 (=NSMT-Cr 15263) (figs. 10c, 10d in Okubo, 1980c); male, MO 941 (no figures); CC female, MO 1118 (figs. 10a, 10b in Okubo, 1980c) (the specimen missing)

St. 20 = the intertidal zone, rocky shore, Te-shima, Shodo-gun, Kagawa Prefecture (34°29.1'N, 134°03.3'E)

Recent

[This new species was given for *Aurila hataii* Ishizaki, 1968 described by Okubo, 1980c, p. 400, 401. See figs. 3a~g, 7g, h, 8a~e in Okubo, 1980c.]

***Aurila okumurai* Yajima, 1992**

Bull. Mizunami Fossil Mus., no. 19, p. 261, 262, Pl. 29, figs.

3, 4, Pl. 30, figs. 3~6

Holotype: RV, UMUT CA 19098 (Pl. 29, figs. 3a, b, Pl. 30, figs. 4, 5), Paratype: LV, UMUT CA 19099 (Pl. 29, figs. 4a, b, Pl. 30, figs. 3, 6)

Loc. 1 = A small exposure, right bank of the Hiyoshi River, 2.5 km N of the Mizunami Fossil Museum, Hiyoshi-machi, Mizunami-shi, Gifu Prefecture (35° 23' 29''N, 137° 14' 27''E)
Akeyo Formation (Shukunohora Sandstone Member)
Early Miocene

***Aurila pseudoamygdata* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 143, Pl. 16, figs. 5, 6

Holotype: CC, IGPS 85822 (Pl. 16, fig. 5), Paratype: LV, IGPS 85823 (Pl. 16, fig. 6)

Goroku, in the western border of Sendai-shi, Miyagi Prefecture
Tatsunokuchi Formation
Pliocene

***Aurila spinifera* Schornikov and Tsareva, 1995**

Mitt. Hambrug. Zool. Mus. Inst., v. 92, p. 248, Pl. 4, figs. 1~6

Holotype: CC female, FESC1804 (Pl. 4, figs. 3, 4), Paratypes: 6 juveniles (A-1~A-4 Stages) (no numbers)

The northern Okinawa Trough, the East China Sea (27° 20'N, 125° 59'E) (fine sand, depth 160 m)

Recent

[The figures (Pl. 4, figs. 1, 2, 5, 6) in the original description (Schornikov and Tsareva, 1995) cannot be correlated with each type specimen.]

***Aurila subconvexa* (Kajiyama, 1913)**

[See *Cythereis subconvexa* Kajiyama, 1913.]

***Aurila subgrata* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 75, 76, Pl. 3, figs. 17, 18, text-fig. 11

Holotype: CC, TNUM 4158 (Pl. 3, figs. 17, 18)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Aurila tosaensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 23, 24, Pl. 4, figs. 16, 17

Holotype: CC, IGPS 90234 (Pl. 4, figs. 16, 17)

St. 303 = Uranouchi Bay, Kochi Prefecture (33° 24' 57''N, 133° 26' 53''E) (coarse sand, depth 25 m)

Recent

***Aurila uranouchiensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 24,

Pl. 4, figs. 9, 10

Holotype: LV, IGPS 90235 (Pl. 4, fig. 10), Paratype: RV, IGPS 90236 (Pl. 4, fig. 9)

St. 10 = Uranouchi Bay, Kochi Prefecture (33° 26' 19''N, 133° 25' 31''E) (coarse sand, depth 10 m)

Recent

***Australimoosella hanaii* Yajima, 1992**

Bull. Mizunami Fossil Mus., no. 19, p. 260, Pl. 32, figs. 15, 16

Holotype: CC, UMUT CA 19096 (Pl. 32, fig. 15), Paratype: CC, UMUT CA 19097 (Pl. 32, fig. 16)

Loc. 1 = A small exposure, right bank of the Hiyoshi River, 2.5 km N of the Mizunami Fossil Museum, Hiyoshi-machi, Mizunami-shi, Gifu Prefecture (35° 23' 29''N, 137° 14' 27''E)

Akeyo Formation (Shukunohora Sandstone Member)
Early Miocene

***Azygocypridina ohtai* Hiruta, 1981**

Jour. Hokkaido Univ., Educ., Sec. II B, v. 32, no. 1, p. 49~56, figs. 2-1~6, 2-1~5, 3-1~5, 4-1~4, 5-1~4

Holotype: CC female with appendages, ZIHU 2217 (figs. 2-1~6, 3-1~5, 4-1~4, 5-1~4)

St. OT-3 = Off Toi, Suruga Bay (34° 56.3'N, 138° 43.7'E-34° 55.5'N, 138° 43.6'E) (mud, depth 388~395 m)

Recent

***Azygocypridina tanseimaruae* Hiruta, 1981**

Proc. Japan Soc., Syst. Zool., no. 21, p. 27~34, figs. 2-1~6, 3-1~4, 4-1~3, 5-1~5

Holotype: CC female with appendages, ZIHU 2216 (figs. 2-1~6, 3-1~4, 4-1~3, 5-1~5)

St. OT-8 = Off Toi, Suruga Bay (34° 55.7'N, 138° 40.4'E - 34° 55.4'N, 138° 40.4'E) (mud, depth 1050~1035 m)

Recent

***Baffinicythere ishizakii* Irizuki, 1996**

Jour. Paleont., v. 70, no. 3, p. 457, figs. 7.1, 11.1~6, 12.1~5

Holotype: LV male, IGPS 101614 (figs. 7.1, 11.1, 2, 12.1), Paratypes: LV female, IGPS 101615 (figs. 11.3, 12.2); RV male, IGPS 101616 (figs. 11.4, 5); RV female, IGPS 101617 (fig. 16.6) PSK-7 [on the map of Kamiyakumo (1: 25,000)]

(42° 19' 15''N, 140° 08' 15''E)

Setana Formation

Pleistocene

***Baffinicythere paiki* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 34, 36, Pl. 1, figs. 11~15, Pl. 2, figs. 1, 2

Holotype: RV female, CNU O 509 (Pl. 1, fig. 11), Paratypes: LV female, CNU O 510 (Pl. 1, fig. 12); RV male, CNU O 511 (Pl. 1, fig. 13); LV male, CNU O 512 (Pl. 1, fig. 14); RV male, CNU O 513 (Pl. 1, fig. 15); LV female, CNU O 514 (Pl. 2, fig. 1); RV female, CNU O 515 (Pl. 2, fig. 2)

Sample SJ2-3 = Seojeongri area of Yeongil-gun, ca. 8.5 km NNW of Pohang, SE coast of Korean Peninsula
Yeonil Group
Middle Miocene

***Baffinicythere reticulata* Irizuki, 1996**

Jour. Paleont., v. 70, no. 3, p. 457, figs. 7.2, 11.7~12, 12.6~11
Holotype: LV male, IGPS 101540 (figs. 7.2, 11.7, 11.8, 12.6),
Paratypes: LV female, IGPS 101626 (figs. 11.9, 12.7); RV male, IGPS 101627 (figs. 11.10, 11); RV female, IGPS 101628 (figs. 11.12)

914-5 [on the map of Aomori-seibu (1 : 25,000)] (40° 45'12''N, 140° 38'35''E)

Daishaka Formation

Pliocene

***Baffinicythere robusticostata* Irizuki, 1996**

Jour. Paleont., v. 70, no. 3, p. 457, 460, figs. 7.3, 11.13~18, 12.12~17

Holotype: RV male, IGPS 101639 (figs. 11.16, 17),
Paratypes: LV male, IGPS 101637 (figs. 7.3, 11.13, 14, 12.12); LV female, IGPS 101638 (figs. 11.15, 12.13); RV female, IGPS 101640 (fig. 11.18)

St. 31 = Otsuchi Bay (39° 22'10''N, 142° 00'00''E) (sandy silt, depth 82 m)

Recent

***Bairdia elegans* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 156, Pl. 16, figs. 11, 12
Lectotype: CC, HMNT 1.15.19 (Pl. 1, fig. 6 in Whatley and Zhao, 1987), Paralectotypes: CC juvenile, HMNT 1.14.33 (Pl. 1, fig. 5 in Whatley and Zhao, 1987); LV, HMNT 1.15.20 (Pl. 1, fig. 7 in Whatley and Zhao, 1987); LV juvenile, HMNT 1.15.21 (Pl. 1, fig. 3 in Whatley and Zhao, 1987); RV juvenile, HMNT 1.15.22 (Pl. 1, fig. 4 in Whatley and Zhao, 1987)

Hong Kong

Recent

[=*Neonesidea elegans* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Bairdia eucurvia* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 153, Pl. 18, figs. 9a, b, 10

Holotype: CC, IGPS 85802 (Pl. 18, figs. 9a, b), Paratype: RV, IGPS 85801 (Pl. 18, fig. 10)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Bairdia hanaii* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, nos. 2~4, p. 165, 166, Pl. 9, figs. 1a, b

Holotype: RV, IGPS 78380 (Pl. 9, figs. 1a, b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Bairdia hataii* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, nos. 2~4, p. 166, 167, Pl. 9, figs. 2a, b

Holotype: CC, IGPS 78381 (Pl. 9, figs. 2a, b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Bairdia iwaizakiensis* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 61, 62, Pl. 2, figs. 15, 16

Syntypes: CC, IGPS 87090 (Pl. 2, fig. 16); CC, IGPS 87089 (Pl. 2, fig. 15)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Bairdia mutsuensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 77, Pl. 1, fig. 9, Pl. 2, figs. 6~8

Holotype: CC, IGPS 90334 (Pl. 2, fig. 7), Paratypes: RV, IGPS 90335 (Pl. 2, fig. 8); LV, IGPS 90336 (Pl. 1, fig. 9, Pl. 2, fig. 6)

St. 24 = Aomori Bay, Aomori Prefecture (40° 53'33''N, 140° 51'36''E) (adhering to plant, depth 5 m)

Recent

[=*Neonesidea mutsuensis* (Ishizaki, 1971) (by Hanai *et al.*, 1977)]

***Bairdia nagaiwensis* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, nos. 2~4, p. 168, 169, Pl. 9, figs. 4a, b

Holotype: CC, IGPS 78383 (Pl. 9, figs. 4a, b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Bairdia obtusa* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 153, 154, Pl. 4, figs. 15, 22, 25, 28, text-fig 28

Holotype: CKUM 3884 (Pl. 4, fig. 28), Paratypes: RV, CKUM 3882 (Pl. 4, figs. 15, 25); CKUM 3883 (Pl. 4, fig. 22)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Bairdia oligodentata* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 3, Pl. 1, figs. 10~18

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

[=*Neonesidea oligodentata* (Kajiyama, 1913) (by Schornikov, 1975)]

***Bairdia pseudoemaciata* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, nos. 2-4, p. 172, 173, Pl. 9, figs. 7a, b

Holotype: LV, IGPS 78387 (Pl. 9, fig. 7a), Paratype: LV, IGPS 78388 (Pl. 9, fig. 7b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Bairdia shoufinnae* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 102, 104, Pl. 18, figs. 1, 2

Holotype: CC, TNUM 11434 (Pl. 18, figs. 1, 2)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)

Tungshiao Formation (Nanwi Member)

Pleistocene

***Bairdia taiwanensis* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 193, 194, Pl. 2, figs. 1, 2, 15, 16, 18, text-fig. 3

Holotype: CC, CKUM 3056 (Pl. 2, fig. 15), Paratype: LV, CKUM 3051 (Pl. 2, fig. 1); RV, CKUM 3052 (Pl. 2, fig. 2); CC, CKUM 3057 (Pl. 2, fig. 16); CKUM 3058 (Pl. 2, fig. 18); CKUM 3059~3062 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

***Bairdia* var. *taiwanensis* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 194, Pl. 2, figs. 3, 4, 17, text-fig. 4

Holotype: CKUM 3053 (Pl. 2, fig. 3), Paratype: RV, CKUM 3054 (Pl. 2, fig. 4); CKUM 3055 (Pl. 2, fig. 17); CKUM 3063~3070 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

***Bairdoppilata itoigawai* Yajima, 1992**

Bull. Mizunami Fossil Mus., no. 19, p. 253, 254, Pl. 29, figs.

1, 2, Pl. 30, figs. 1, 2

Holotype: RV, UMUT CA 19080 (Pl. 29, figs. 1a, b, Pl. 30, fig. 2), Paratype: LV, UMUT CA 19081 (Pl. 29, figs. 2a, b, Pl. 30, fig. 1)

Loc. 1 = A small exposure, right bank of the Hiyoshi River, 2.5 km N of the Mizunami Fossil Museum, Hiyoshi-machi, Mizunami-shi, Gifu Prefecture (35° 23'29''N, 137° 14'27''E)

Akeyo Formation (Shukunohora Sandstone Member)

Early Miocene

***Basslerites obai* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 84, 85, Pl. 2, fig. 4, Pl. 1, figs. 2, 8

Holotype: RV, IGPS 91551 (Pl. 1, fig. 8, Pl. 2, fig. 4), Paratype: RV, IGPS 91552 (Pl. 1, fig. 2)

St. 90 = Aomori Bay, Aomori Prefecture (41° 01'20''N, 140° 49'18''E) (mud, depth 45 m)

Recent

[=*Ambtonia obai* (Ishizaki, 1971) (by Bodergat and Ikeya, 1988)]

***Basslerites taiwanensis* Hu and Yeh, 1978**

Proc. Geol. Soc. China, no. 21, p. 153, 155, 156, Pl. 2, figs. 1, 2, 11~13, text-fig. 3

Holotype: CC, CKUM 3940 (Pl. 2, fig. 11), Paratypes: CKUM 3941~3943; CKUM 3944, 3945 (no figures)

0.5 km S of the Liushuang village, Kuantien-hsang, Tainan-hsien, Tainan District, Taiwan

Liushuang Formation

Pleistocene

[=*Moosella tomokoae* (Ishizaki, 1968) (by this paper). Four figures (Pl. 2, figs. 1, 2, 12, 13) in the original description (Hu and Yeh, 1978) cannot be correlated with each type specimen (CKUM 3941~3943).]

***Basslerites wangokuefei* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 79, 80, Pl. 9, fig. 9, text-fig. 11

Holotype: RV, TNUM 8049 (Pl. 9, fig. 9)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

***Bathyleberis yamadai* Hiruta, 1979**

Jour. Fac. Sci., Hokkaido Univ., Ser. 6 (Zool.), v. 22, no. 1, p. 99~121, figs. 1-1~5, 2-1~5, 3-1~5, 4-1~3, 5-1, 2, 6-1~4, 7-1~4, 8-1~7, 9-1~4, 10-1~5, 11-1~7, 12-1~3, 13-1~5, 14-1~3, 15-1, 2, 16-1~8, 17-1~9

Holotype: CC female with appendages, ZIHU 2190 (figs. 1-1~5, 2-1~5, 3-1~4), Allotype: CC male with appendages, ZIHU 2191 (figs. 4-1~3, 5-1, 2, 6-1~4, 7-1, 2), Paratypes: CC male with appendages, ZIHU 2192 (figs. 7-3, 4); CC

male with appendages, ZIHU 2193 (no figures); CC female with appendages, ZIHU 2194 (fig. 3-5); CC female with appendages, ZIHU 2195 (no figures); CC juvenile (A-5 stage) with appendages, ZIHU 2196 (no figures); CC juvenile (A-5 stage) with appendages, ZIHU 2197 (no figures); CC juvenile (A-5 stage) with appendages, ZIHU 2198 (figs. 9-1~4, 10-1,2,4,5); CC juvenile (A-5 stage) with appendages, ZIHU 2199 (figs. 8-1, 10-3); CC juvenile (A-4 stage) with appendages, ZIHU 2200 (fig. 11-6); CC juvenile (A-4 stage) with appendages, ZIHU 2201 (figs. 11-1~5, 7, 12-1~3); CC juvenile (A-4 stage) with appendages, ZIHU 2202 (no figures); CC juvenile (A-3 stage) with appendages, ZIHU 2203 (no figures); CC juvenile (A-3 stage) with appendages, ZIHU 2204 (no figures); CC juvenile (A-3 stage) with appendages, ZIHU 2205 (figs. 13-1~5, 14-1~3); CC juvenile (male) (A-2 stage) with appendages, ZIHU 2206 (no figures); CC juvenile (male) (A-2 stage) with appendages, ZIHU 2207 (no figures); CC juvenile (male) (A-2 stage) with appendages, ZIHU 2208 (figs. 15-1, 16-5~8); CC juvenile (female) (A-2 stage) with appendages, ZIHU 2209 (no figures); CC juvenile (female) (A-2 stage) with appendages, ZIHU 2210 (no figures); juvenile (female) (A-2 stage) with appendages, (shell missing) ZIHU 2211 (figs. 15-2, 16-1~4); CC juvenile (male) (A-1 stage) with appendages, ZIHU 2212 (no figures); CC juvenile (male) (A-1 stage) with appendages, ZIHU 2213 (figs. 17-5~9); CC juvenile (female) (A-1 stage) with appendages, ZIHU 2214 (fig. 17-2); CC juvenile (female) (A-1 stage) with appendages, ZIHU 2215 (figs. 17-1,3,4)

Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (muddy sand, depth 3~5 m)

Recent

[=*Xenoleberis yamadai* (Hiruta, 1979) (by Kornicker, 1994)]

***Bicornucythere bisanensis* (Okubo, 1975)**

[See *Leguminocythereis bisanensis* Okubo, 1975.]

***Bicornucythere* Schornikov, 1979**

Zool. Mar., v. 2, p. 42~45

Type species: *Leguminocythereis bisanensis* Okubo, 1975

***Boreostoma ussuricum* (Schornikov, 1974)**

[See *Paradoxostoma ussuricum* Schornikov, 1974.]

***Bosquetina bacca* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 78, 79, Pl. 9, figs. 28, 31, 32, text-fig. 10

Holotype: RV, TNUM 8072 (Pl. 9, fig. 31), Paratypes: 2 RV, TNUM 8073, 8074 (Pl. 9, figs. 28, 32)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

***Bosquetina carinata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 145, 146, Pl. 4, figs. 10, 11, 14, text-fig. 18

Holotype: LV, CKUM 3874 (Pl. 4, figs. 11, 14), Paratype: CKUM 3875 (Pl. 4, fig. 10)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Bradleya japonica* Benson, 1972**

Smithsonian Contr., Paleobiology, no. 12, p. 40, Pl. 7, fig. 3, text-fig. 14B

Holotype: LV, USNM 174320 (Pl. 7, fig. 3, text-fig. 14B)

ALB. 3708 = Suruga Bay, ca. 3.6 km SW off Ose-zaki, Numazu-shi, Shizuoka Prefecture (35° 00.4'N, 138° 45.5'E) (depth 130 m)

Recent

***Bradleya donghaiensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 159, 160, Pl. 171, figs. 1, 2

Holotype: LV, DJ 0007 (Pl. 171, fig. 2), Paratype: LV, RV 0008 (Pl. 171, fig. 1)

East China Sea

Donghai Group

Pleistocene to Holocene

***Bradleya nuda* Benson, 1972**

Smithsonian Contr., Paleobiology, no. 12, p. 41, 42, Pl. 7, fig. 5, text-fig. 14A

Holotype: LV, USNM 174323 (Pl. 7, fig. 5, text-fig. 14A)

F25510 (Ozawa locality) = Near Okuwa, Kanazawa, Ishikawa Prefecture

Omma Formation

Upper Pliocene

***Bradleya ovata* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 97, Pl. 3, figs. 27, 29, text-fig. 17

Holotype: RV, TNUM 7061 (Pl. 3, figs. 27, 29)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Bradleya pitalia* (Hu, 1981)**

[See *Trachyleberidea pitalia* Hu, 1981.]

***Bradleya saitoi* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, no. 1, p. 29, 30, Pl. 2, figs. 11, 13~19

Holotype: CC female, IGPS 78361 (Pl. 2, fig. 15), Paratypes: LV female, IGPS 78362 (Pl. 2, fig. 14); LV immature male, IGPS 78363 (Pl. 2, fig. 16); LV immature male, IGPS 78364 (Pl. 2, fig. 17); LV female, IGPS 78365 (Pl. 2, fig. 18); RV female, IGPS 78366 (Pl. 2, fig. 19); CC female, IGPS 78371 (Pl. 2, fig. 13); RV male, IGPS 78899 (Pl. 2, fig. 11)

Nishiichinose, W of Kanazawa-shi, Ishikawa Prefecture

Yatsuo Formation (Sunakosaka Member)

Miocene

[=*Cornucoquimba saitoi* (Ishizaki, 1963) (by Hanai *et al.*, 1977)]

***Bradleya sendaiensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 156, Pl. 16, fig. 12

Holotype: RV, IGPS 85825 (Pl. 16, fig. 12)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

[=*Bradleya ? sendaiensis* Ishizaki, 1966 (by Hanai *et al.*, 1977)]

***Bradoria subacuminata* Saito, 1934**

Jour. Geol. Geogr., v. 11, p. 233, Pl. 27, figs. 25~27

Holotype: UMUT

Imp'ori, Cho'ongsu-myön, Hwanghai-dô, Korea

Lower Redilichia shales

Cambrian

***Brunnestoma brunneum* (Schornikov, 1974)**

[See *Paradoxostoma brunneum* Schornikov, 1974.]

***Buntonia hanaii* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 401, 402, Pl. 50, figs. 4a, b

Holotype: LV, UMUT CA 8427 (Pl. 50, fig. 4b), Paratype: RV, UMUT CA 8428 (Pl. 50, fig. 4a)

Loc. 29 = An exposure, 300 m SW of the Shounji Temple, Senzoku, Josai, Kisarazu-shi, Chiba Prefecture (35°21'52"N, 139°56'00"E)

Narita Formation (Kioroshi Member)

Pleistocene

***Buntonia hayamii* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p.88, 89, Pl. 12, figs. 9~15, text-figs. 16-7, 8

Holotype: RV female, UMUT CA 15864 (Pl. 12, figs. 9, 14, text-fig. 16-8), Paratypes: LV female, UMUT CA 15865 (Pl. 12, fig. 10); RV male, UMUT CA 15866 (Pl. 12, fig. 11); LV male, UMUT CA 15867 (Pl. 12, figs. 12, 13, text-fig. 16-7);

CC male, UMUT CA 15868 (Pl. 12, fig. 15)

Loc. O1 = An exposure along the Otakizawa River, 3 km NW of Tsurugasaka railway station, Aomori-shi, Aomori Prefecture (40°48'28"N, 140°36'40"E)

Daishaka Formation

Plio-Pleistocene

[=*Falsobuntonia hayamii* (Tabuki, 1986) (by Ikeya and Suzuki, 1992)]

***Buntonia japonica* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 156, 157, Pl. 19, figs. 6, 7, text-fig. 1, fig. 5

Holotype: RV, IGPS 87045 (Pl. 19, fig. 7, text-fig. 1, fig. 5), Paratype: LV, IGPS 87046 (Pl. 19, fig. 6)

Down stream of the Tatsunokuchi gorge, a tributary of the Hirose River, in the western part of Sendai-shi, Miyagi Prefecture

Tatsunokuchi Formation

Pliocene

[=*Robertsonites japonicus* (Ishizaki, 1966) (Tanaka *et al.*, 2002)]

***Buntonia lepida* Chen, 1990**

Acta Micropalaeontologica Sinica, v. 7, no. 4, p. 378, Pl. 1, figs. 9~12

Holotype: CC, 111227 (Pl. 1, figs. 9, 10), Paratype: CC, 111228 (Pl. 1, figs. 11, 12)

Hole W6-1-1 (core) = 160 km E of Wenzhou City, SW of East China Sea (27°50'N, 122°50'E)

Lower Wenzhou Formation

Middle Eocene

***Buntonia parascorta* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 148, 149, Pl. 28, figs. 1~4; Pl. 35, fig. 1

Holotype: RV, IGPS 97781 (Pl. 28, figs. 1a~c), Paratypes: LV, IGPS 97782 (Pl. 28, figs. 2a, b); RV, IGPS 97783 (Pl. 28, fig. 4); LV, IGPS 97784 (Pl. 28, fig. 1, Pl. 35, fig. 1)

About 80 m W of Ono Yasuda-cho, Aki-gun, Kochi Prefecture

Ananai Formation

Pliocene

[Sample horizon H2 = Ca. 2 m below the top of Ananai Fm.]

***Buntonia reticuliforma* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 157, 158, Pl. 16, fig. 7, text-fig. 1, fig. 1

Holotype: RV, IGPS 85826 (Pl. 16, fig. 7, text-fig. 1, fig. 1)

About 1,500 m SE of Saboyama, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

[=*Robertsonites reticuliformus* (Ishizaki, 1966) (by Tanaka *et al.*, 2002)]

***Buntonia scorta* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 149~151, Pl. 28, figs. 5, 6; Pl. 29, figs. 1~4; Pl. 35, fig. 3

Holotype: LV, IGPS 97787 (Pl. 29, fig. 3, Pl. 35, fig. 3), Paratypes: LV, IGPS 97785 (Pl. 28, fig. 5, Pl. 29, fig. 2); RV, IGPS 97786 (Pl. 28, fig. 6, Pl. 29, fig. 1); RV, IGPS 97788 (Pl. 29, figs. 4a, b)

About 150 m W of Sempuku, Nahari-cho, Aki-gun Kochi Prefecture

Ananai Formation

Pliocene

[Sample horizon G5 = Ca. 12 m below the top of Ananai Fm.]

***Buntonia triangulata* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 46, 47, Pl. 3, figs. 8~10, text-fig. 17

Holotype: CKUM 2036, Paratypes: CKUM 2035; CKUM 2037 (no figures)

Loc. 14 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

***Buntonia u-carinata* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 151, 152, Pl. 29, figs. 5~8; Pl. 35, fig. 4

Holotype: RV, IGPS 97789 (Pl. 29, figs. 5a, b), Paratypes: LV, IGPS 97790 (Pl. 29, figs. 6a, b); RV, IGPS 97791 (Pl. 29, fig. 8, Pl. 35, fig. 4); LV, IGPS 97792 (Pl. 29, fig. 7)

At about 81 m W of Ono, Yasuda-cho, Aki-gun, Kochi Prefecture

Ananai Formation

Pliocene

[Sample horizon H3 = Ca. 3 m below the top of Ananai Fm.]

***Bythoceratina angulata* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 66, 67, figs. 5-5, 11-6a, b, 7a~c

Holotype: LV, UMUT CA 17996 (figs. 5-5, 11-7a~c), Paratype: RV, UMUT CA 17997 (figs. 11-6a, b)

Loc. 1105 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34°37'30"N, 137°15'38"E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon 1105 = Ca. 3 m above the base of Tonna Bed]

***Bythoceratina bella* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 95~97, Pl. 4, figs. 9, 14~16, 20, 23~27, text-fig. 14

Holotype: CKUM 3672 (Pl. 4, fig. 27), Paratypes: CKUM 3653; CKUM 3654; CKUM 3655; CKUM 3656; CKUM 3657; CKUM 3658; CKUM 3659; RV, CKUM 3670 (Pl.

4, fig. 25); CKUM 3671; CKUM 3673~3678 (no figures)

The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan

Toukoshan Formation

Pleistocene

[= *Bythoceratina hanaii* Ishizaki, 1968 (by Hu, 1986). Eight figures (Pl. 4, figs. 9, 14~16, 20, 23, 24 and 26) in the original description (Hu, 1977a) cannot be correlated with each type specimen (CKUM 3653~3659, 3671).]

***Bythoceratina carinata* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 157, 158, Pl. 3, figs. 23, 29, text-fig. 8

Syntypes: 2 RV, TNUM 7170 (Pl. 3, figs. 23, 29)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Bythoceratina elongata* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 50, 51, Pl. 4, figs. 5a, 5b, 6, Pl. 7, fig. 4

Holotype: LV, IGSU-O-22 (Pl. 4, figs. 5a, 5b, 6, Pl. 7, fig. 4)

St. 54 = Off Enshu-nada, 4.5 km W of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34°40'19"N, 137°33'22"E) (well-sorted medium sand, depth 7.3 m)

Recent

***Bythoceratina hanaii* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 17, Pl. 1, fig. 3, Pl. 3, figs. 9, 10

Holotype: LV, IGPS 90208 (Pl. 1, fig. 3, Pl. 3, fig. 9), Paratype: RV, IGPS 90209 (Pl. 3, fig. 10)

St. 310 = Uranouchi Bay, Kochi Prefecture (33°26'00"N, 133°27'39"E) (coarse sand, depth 16 m)

Recent

[The specimen of IGPS 90209 was collected from the beach sand of the Yuigahama, Kamakura-shi.]

***Bythoceratina hanejiensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 52, 53, Pl. 8, figs. 5a~c

Holotype: LV, RUEG 135 (Pl. 8, figs. 5a~c)

Loc. 7572003 = river bed of Haneji River in front of Haneji Junior Highschool, Nago-shi, Okinawa Prefecture (26°37'10"N, 128°01'25"E)

Nakoshi Formation (Nakoshi Sand Member)

Pleistocene

***Bythoceratina higashisinensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 53, Pl. 12, figs. 1a~e

Holotype: LV, RUEG 136 (Pl. 12, figs. 1a~e)

St. 397 = Ca. 25 km WNW of Izena-jima, Okinawa Prefecture (27°04'02"N, 127°40'05"E) (mud, depth 785 m)
Recent

***Bythoceratina marginata* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 159, 160, Pl. 3, figs. 26, 28, text-fig. 10

Holotype: TNUM 7168, Paratype: TNUM 7169

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan
Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Bythoceratina pacifica* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 143, 145, 147, Pl. 26, figs. 15, 17, 19~24, text-fig. 2A

Holotype: RV, TNUM 11598 (Pl. 26, fig. 21), Paratypes: CC, TNUM 11592 (Pl. 26, fig. 15); CC, TNUM 11593 (Pl. 26, fig. 17); 3CC and 1 RV, TNUM 11594~11597 (Pl. 26, figs. 19, 20, 23, 24); LV, TNUM 11599 (Pl. 26, fig. 22)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Bythoceratina reticulata* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 141, 143, Pl. 16, figs. 18, 21~26

Holotype: RV, TNUM 11414 (Pl. 16, fig. 24), Paratypes: LV, TNUM 11410 (Pl. 16, fig. 23); LV, TNUM 11411 (Pl. 16, fig. 18); LV, TNUM 11412 (Pl. 16, fig. 21); LV, 11413 (Pl. 16, fig. 22); RV, TNUM 11415 (Pl. 16, fig. 26); RV, TNUM 11416 (Pl. 16, fig. 25)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Bythoceratina sudjaponica* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 80, 81, Pl. 4, figs. 5, 6a, b

Holotype: RV, JC-1390 (Pl. 4, figs. 6a, b), Paratype: LV, JC-1391 (Pl. 4, fig. 5)

MZ-16 = Hyuga-nada, ca. 30 km S off Hyuga-shi, Miyazaki Prefecture (32°10.0'N, 131°30.6'E) (sand, depth 36 m)

Recent

***Bythoceratina virgatella* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 160, 161, Pl. 3, figs. 1~3, 7, 9, 10, text-fig. 11

Holotype: TNUM 7150, Paratypes: TNUM 7151; TNUM 7152; TNUM 7153

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan
Maanshan Mudstone

Late Pliocene / Early Pleistocene

[=*Bythoceratina orientalis* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Bythocythere alata* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 65, 66, figs. 7-4, 11-10, 12-7a~c

Holotype: RV, UMUT CA 17992 (figs. 7-4, 12-7a-c), Paratype: RV, UMUT CA 17993 (fig. 11-10)

Loc. 1102 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34°37'30"N, 137°15'38"E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon 1102 = Ca. 4.5 m above the base of Tonna Bed]

***Bythocythere ishizakii* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 66, figs. 7-5, 6, 11-11, 12-8a, b, 9a, b

Holotype: LV, UMUT CA 17994 (figs. 7-5, 11-11, 12-9a, b), Paratype: RV, UMUT CA 17995 (figs. 7-6, 12-8a, b)

Loc. 0501 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34°37'20"N, 137°15'30"E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon 0501 = Ca. 1 m above the base of Tonna Bed]

***Bythocythere maisakensis* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 49, 50, Pl. 3, figs. 6a, 6b, 7, 8a, 8b, 9, 10, text-fig. 16

Holotype: CC, IGSU-O-20 (Pl. 3, figs. 6a, 6b, 7, 8a, 8b, 9, 10), Paratype: RV, IGSU-O-58 (text-fig. 16)

St. 56 = Off Enshu-nada, 6 km W of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34°40'18"N, 137°32'03"E) (well-sorted medium sand, depth 5.9 m)

Recent

***Bythocythere orientalis* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 159, Pl. 16, figs. 21~23

Holotype: RV, HMNT 1.35.35 (Pl. 1, fig. 11 in Whatley and Zhao, 1987)

Hong Kong

Recent

[=*Bythoceratina orientalis* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Callistocythere alata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 450, 451, Pl. 7, figs. 4a, b, Pl. 10, fig. 5

Holotype: CC male, UMUT CA 2547-1 (Pl. 7, figs. 4a, b, Pl. 10, fig. 5), Allotype: CC female, UMUT CA 2547-2, Paratype: CC female, UMUT CA 2547-3

The shore behind the Mitsui Biological Station, Hamazaki-mura, Kamo-gun, Shizuoka Prefecture (beach sand)

Recent

***Callistocythere ananaiensis* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 143, 144, Pl. 30, figs. 4, 5; Pl. 31, figs. 1~3; Pl. 35, fig. 2

Holotype: RV, IGPS 97796 (Pl. 30, fig. 4, Pl. 31, figs. 3a, b), Paratypes: LV, IGPS 97797 (Pl. 30, figs. 5a, b); RV, IGPS 97798 (Pl. 31, fig. 2; Pl. 35, fig. 2); LV, IGPS 97799 (Pl. 31, fig. 1)

About 80 m W of Ono, Yasuda-cho, Aki-gun, Kochi Prefecture

Ananai Formation

Pliocene

[Sample horizon H1 = Ca. 1 m below the top of Ananai Fm.]

***Callistocythere angulata* Okubo, 1979**

Res. Crustacea, no. 9, p. 18~20, text-figs. 3a~j, Pl. 1, figs. i~l

Holotype: CC male with appendages, MO 821 (=NSMT-Cr 15264) (no figures), Allotype: CC female with appendages, MO 824 (=NSMT-Cr 15265) (no figures), Paratypes: CC male with appendages, MO 823 (text-figs. 3c~j, Pl. 1, figs. k, l) (the specimen missing); CC female, MO 834 (text-figs. 3a, b, Pl. 1, figs. i, j) (the specimen missing)

Hoso-no-su Sand Bank, the Inland Sea of Seto, Hiroshima Prefecture (sandy mud) (34° 21.9'N, 133° 08.0'E)

Recent

[Paratype specimens are figured as text-figs. 3a, b, Pl. 1, figs. i, j (MO 834) and text-figs. 3c~j, Pl. 1, figs. k, l (MO 823), but the figures of holotype (MO 821) and allotype (MO 824) specimens are not shown.]

***Callistocythere antifascistica* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 64, Pl. 1, fig. 15, text-fig. 2

Holotype: RV, TNUM 4108 (Pl. 1, fig. 15)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Callistocythere besani* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 113, Pl. 17, figs. 9, 12, 15~17, 19~28, text-fig. 2C

Holotype: CC male, TNUM 11443 (Pl. 17, fig. 27), Paratypes: 3 juveniles, TNUM 11429~11431 (Pl. 17, figs. 9, 17, 23); 3 CC females, TNUM 11432~11434 (Pl. 17, figs. 12, 20, 25); LV, TNUM 11435 (Pl. 17, fig. 15); juvenile, TNUM 11436 (Pl. 17, fig. 21); RV, TNUM 11437 (Pl. 17, fig. 22);

CC, TNUM 11438 (Pl. 17, fig. 26); 4 CC males, TNUM 11439~11442 (Pl. 17, figs. 16, 19, 24, 28)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Callistocythere gorokuensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 145, 146, Pl. 16, fig. 9

Holotype: LV, IGPS 85827 (Pl. 16, fig. 9)

Goroku, in the western border of Sendai-shi, Miyagi Prefecture

Tatsunokuchi Formation (upper horizon)

Pliocene

***Callistocythere hatatensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 146, 147, Pl. 16, figs. 8, 10, 11

Holotype: RV, IGPS 85828 (Pl. 16, fig. 8), Paratypes: RV, IGPS 85829 (Pl. 16, fig. 10); LV, IGPS 85830 (Pl. 16, fig. 11)

A cliff near the Taihakusan station of the abandoned Akayu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Callistocythere hayamensis* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 453, 454, Pl. 7, figs. 2a~d

Holotype: CC male, UMUT CA 2548 (Pl. 7, figs. 2c, d), Allotype: CC female, UMUT CA 2549 (Pl. 7, figs. 2a, b), Paratypes: UMUT CA 2558, 2559, 2560, 2561

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

***Callistocythere hosonosuensis* Okubo, 1979**

Res. Crustacea, no. 9, p. 17, 18, text-figs. 2a~i, Pl. 1, figs. e~h

Holotype: CC male, MO 827 (Pl. 1, figs. g, h) (the specimen missing), Allotype: CC female with appendages, MO 832 (=NSMT-Cr 15266) (text-figs. 2a, b, d~j, Pl. 1, figs. e, f), Paratypes: CC male with appendages, MO 831 (=NSMT-Cr 15267) (no figures); male appendage, MO 836 (text-fig. 2c)

Hoso-no-su Sand Bank, the Inland Sea of Seto, Hiroshima Prefecture (sandy mud) (34° 21.9'N, 133° 08.0'E)

Recent

***Callistocythere hotaru* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 190, 191, Pl. 11, figs. 5, 6, text-figs. 14-1, 2

Holotype: LV female, UMUT CA 9826 (Pl. 11, fig. 5, text-fig. 14-2), Paratype: RV female, UMUT CA 9827 (Pl. 11,

fig. 6, text-fig. 14-1)

Loc. 312 = A cliff, SW of Yokota railway station, Hirakawa-machi, Kimitsu-gun, Chiba Prefecture (35° 22'24"N, 140°01'20"E)

Kiyokawa Formation
Pleistocene

***Callistocythere ishizakii* Ikeya and Zhou, 1992**

In Ishizaki, K. and Saito, T. (eds.), Centenary of Japanese Micro-paleontology, Terra Sci. Publ., Tokyo, p. 347, figs. 11-5a, 5b, 6, 7a, 7b, 8.

Holotype: RV, IGSU-O-770 (figs. 11-5a, 5b, 6), Paratype: LV, IGSU-O-771 (figs. 11-7a, 7b, 8)

St. 45 = Otuschi Bay, Iwate Prefecture (39°20.6'N, 141°56.3'E) (mud, depth 25 m)

Recent

***Callistocythere japonica* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 457~459, Pl. 9, figs. 2a~g, text-figs. 1B, C, 2E, F, pl. 10, fig. 7

Holotype: CC male, UMUT CA 2572 (Pl. 9, figs. 2a, b, g), Allotype: CC female, UMUT CA 2573 (Pl. 9, figs. 2c, d), Paratypes: CC male, UMUT CA 2636 (Pl. 10, fig. 7); CC female, UMUT CA 2575 (Pl. 9, figs. 2e, f)

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

***Callistocythere japonica uranipponica* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 459, Pl. 9, figs. 3a~c

Holotype: CC male, UMUT CA 2576 (Pl. 9, figs. 3a~c), Paratype: LV, UMUT CA 2577

The shore of Kashiwara, about 200 m SE of Dozanto, near Yamaga, Ashiya-machi, Onga-gun, Fukuoka Prefecture (beach sand)

Recent

***Callistocythere kattoi* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 144, 145, Pl. 31, figs. 4~7; Pl. 35, fig. 8

Holotype: LV, IGPS 97800 (Pl. 31, fig. 5), Paratypes: RV, IGPS 97801 (Pl. 31, figs. 4a~c); LV, IGPS 97802 (Pl. 31, fig. 6; Pl. 35, fig. 8); RV, IGPS 97803 (Pl. 31, fig. 7)

About 80 m W of Ono Yasuda-cho, Aki-gun, Kochi Prefecture

Ananai Formation

Pliocene

[Sample horizon H1 = Ca. 1 m below the top of Ananai Fm.]

***Callistocythere kotorai* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 147, 148, Pl. 16, figs. 14,15

Holotype: RV, IGPS 85832 (Pl. 16, fig. 14), Paratype: CC,

IGPS 85833 (Pl. 16, fig. 15)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Callistocythere kyongjuensis* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 32, 34, Pl. 1, figs. 1~6

Holotype: LV female, CNU O 501 (Pl. 1, figs. 1, 2), Paratypes: LV female, CNU O 502 (Pl. 1, fig. 3); RV male, CNU O 503 (Pl. 1, figs. 4, 5); LV male, CNU O 504 (Pl. 1, fig. 6)

Sample MC2-1 = Mulcheonri area of Weolseong-gun, ca. 3.5 km E of Kyongju, SE coast of Korean Peninsula

Yeonil Group

Middle Miocene

***Callistocythere laevis* Okubo, 1979**

Res. Crustacea, no. 9, p. 23~25, text-figs. 5a~j, Pl. 2, figs. e~h

Holotype: CC female with appendages, MO 639 (=NSMT-Cr 15268) (no figures), Allotype: CC female with appendages, MO 829 (text-figs. 5a, b, d~f, h~j, Pl. 2, figs. e, f), Paratype: CC male with appendages, MO 828 (=NSMT-Cr 15269) (text-figs. 5c, g, Pl. 2, figs. g, h)

Mukai-shima, the Inland Sea of Seto, Mitsugi-gun, Hiroshima Prefecture (sandy mud) (34°21.7'N, 133°13.2'E)

Recent

[= *Callistocythere pumila* Hanai, 1957 (by Tsukagoshi, 1998).

Allotype and paratype specimens are figured as text-figs. 5a, b, d~f, h~j, Pl. 2, figs. e, f (MO 829) and text-figs. 5c, g, Pl. 2, figs. g, h (MO 828), but the figures of holotype (MO 639) specimen is not shown.]

***Callistocythere minaminipponica* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micro-paleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 133, 134, Pl. 2, figs. 6~10, Pl. 3, fig. 1, text-fig. 7

Holotype: LV, IGPS 91737 (Pl. 2, figs. 7, 8), Paratypes: RV, IGPS 91735 (Pl. 2, fig. 10, text-fig. 7) (Loc. 10B); LV, IGPS 91738 (Pl. 2, fig. 9) (Loc. 12C); RV, IGPS 91736 (Pl. 2, fig. 6, Pl. 3, fig. 1) (Loc. 10B)

Loc. 17 = A cliff, S of Hamaoka-cho, 2 km N of Egenoya Elementary School, Higi, Hamaoka-cho, Ogasa-gun, Shizuoka Prefecture

Furuya Formation

Pleistocene

[Sample horizon 17C = Ca. 1 m below the top of Furuya Fm.]

***Callistocythere minor* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 461, Pl. 10, figs. 1a~e, text-figs. 2A, B

Holotype: CC, UMUT CA 2585 (Pl. 10, figs. 1c-e),
Paratypes: UMUT CA 2586 (Pl. 10, fig. 1a); UMUT CA
2587 (Pl. 10, fig. 1b); UMUT CA 2588

The shore at Toura, Hamazaki-mura, Kamo-gun, Shizuoka
Prefecture (beach sand)

Recent

***Callistocythere nanwanica* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 100, 101, Pl. 2, figs. 1, 2,
text-fig. 22

Holotype: LV, TNUM 7019 (Pl. 2, figs. 1, 2; fig. 22)

Outcrop along the Hengchun to Olanpi Highway, N coast of
the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°
56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Callistocythere nipponica* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 446~448,
Pl. 7, figs. 1a, b, Pl. 10, fig. 4, text-figs. 1A, 2C, D

Holotype: CC, UMUT CA 2541 (Pl. 7, figs. 1a, b, Pl. 10, fig.
4), Paratype: CC, UMUT CA 2542

The shore behind an Imperial villa, Hayama-cho, Kanagawa
Prefecture (beach sand)

Recent

***Callistocythere okinawaensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 40, Pl. 3,
figs. 2a~c

Holotype: LV, RUEG 106 (no figures), Paratype: RV, RUEG
105 (Pl. 3, figs. 2a, b)

Loc. 7571706 = Kudeken, Chinen-son, Okinawa-jima,
Okinawa Prefecture (Type locality of Chinen Formation)
(26°10'00"N, 127°49'42"E)

Chinen Formation

Pleistocene

[Sample horizon = 1.5 m above the base of Chinen
Formation. In Nohara (1987), RUEG 105 for holotype should
be replaced with RUEG 106, and RUEG 106 for paratype
should be changed into RUEG 105. Pl. 3, figs. 2a, b are the
figures for paratype, the figure for holotype is not shown.]

***Callistocythere ovata* Hu, 1976**

Proc. Geol. Soc. China, no. 19, p. 44, 45, Pl. 3, figs. 6, 16,
text-fig. 15

Holotype: RV, CKUM 2004 (Pl. 3, figs. 6, 16)

Loc.13 = 2.5 km SE of Tsaochia station, Chinshui county,
ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

***Callistocythere pumila* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 459, 460,
Pl. 10, figs. 2a~c

Holotype: CC, UMUT CA 2578 (Pl. 10, fig. 2b), Paratypes:
LV, UMUT CA 2579 (Pl. 10, fig. 2a); RV, UMUT CA, 2581
(Pl. 10, fig. 2c)

The shore about 1 km NE of Akase railroad station, near
Hiraiwa, Auda-mura, Uto-gun, Kumamoto Prefecture

Recent

***Callistocythere rectangulata* (Kajiyama, 1913)**

[See *Cythere rectangulata* Kajiyama, 1913.]

***Callistocythere reticulata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 448, 449,
Pl. 8, figs. 2a~d

Holotype: CC male, UMUT CA 2543 (Pl. 8, figs. 2a, b),

Allotype: CC female, UMUT CA 2544 (Pl. 8, figs. 2c, d),

Paratypes: CC male, UMUT CA 2545, 2546

The shore behind an Imperial villa, Hayama-cho, Kanagawa
Prefecture (beach sand)

Recent

***Callistocythere rugosa* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 451, 452,
Pl. 8, figs. 3a~d

Holotype: CC male, UMUT CA 2550 (Pl. 8, figs. 3a, b),

Allotype: CC female, UMUT CA 2551 (Pl. 8, figs. 3c, d),

Paratypes: CC male, UMUT CA 2552; CC female, UMUT
CA, 2553

The shore behind an Imperial villa, Hayama-cho, Kanagawa
Prefecture (beach sand)

Recent

***Callistocythere rugosoforma* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 148,
Pl. 16, figs. 16, 17

Holotype: CC, IGPS 85834 (Pl. 16, fig. 16), Paratype: CC,
IGPS 85835 (Pl. 16, fig. 17)

Goroku, in the western border of Sendai-shi, Miyagi
Prefecture

Tatsunokuchi Formation (upper horizon)

Pliocene

***Callistocythere seojeongriensis* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 34, Pl. 1, figs. 7~10

Holotype: RV female, CNU O 505 (Pl. 1, fig. 7), Paratypes:
RV female, CNU O 506 (Pl. 1, fig. 8); LV female, CNU O

507 (Pl. 1, fig. 9); LV male, CNU O 508 (Pl. 1, fig. 10)

Sample SJ2-3 = Seojeongri area of Yeongil-gun, ca. 8.5 km
NNW of Pohang, SE coast of Korean Peninsula

Yeonil Group

Middle Miocene

***Callistocythere setanensis* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 457, Pl. 10,
figs. 3a, b

Holotype: LV, UMUT CA 2570 (Pl. 10, fig. 3a), Paratype: RV, UMUT CA 2571 (Pl. 10, fig. 3b)

The valley of Toshihetsu-gawa, about 800 m W of Omagari, Toshihetsu-mura, Setana-gun, Hokkaido

Setana Formation

Upper Pliocene

***Callistocythere setouchiensis* Okubo, 1979**

Res. Crustacea, no. 9, p. 15~17, text-figs. 1a~j, Pl. 1, figs. a~d

Holotype: CC male with appendages, MO 569 (=NSMT-Cr 15270) (text-figs. 1c, h~j), Allotype: CC female with appendages, MO 568 (=NSMT-Cr 15271) (text-figs. 1a, b, d~g, f'), Paratypes: CC female with appendages, MO 807 (=NSMT-Cr 15272) (Pl. 1, figs. a, b); CC female, MO 671 (Pl. 1, figs. c, d) (the specimen missing)

Intertidal zone of the rocky shore, Mukai-shima, the Inland Sea of Seto, Mitsugi-gun, Hiroshima Prefecture (on algae) (34° 21.7'N, 133° 13.2'E)

Recent

***Callistocythere subjaponica* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 455, 456, Pl. 8, figs. 4a~e

Holotype: CC male, UMUT CA 2566 (Pl. 8, figs. 4a, b, e), Allotype: CC female, UMUT CA 2567 (Pl. 8, figs. 4c, d), Paratypes: UMUT CA 2568, UMUT CA 2569

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

***Callistocythere subquadrata* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 200~202, figs. 27-6, 8, 12, 17, 23, text-fig. 18

Holotype: CKUM 3567 (fig. 27-12), Paratypes: CKUM 3565 (fig. 27-8); CKUM 3566 (fig. 27-17); CC, CKUM 3568 (fig. 27-6); CKUM 3569 (no figures)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Callistocythere undata* (Hanai, 1957) (by Hu, 1986)]

***Callistocythere subsetanensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 149, Pl. 16, figs. 18, 19

Holotype: RV, IGPS 85837 (Pl. 16, fig. 19), Paratype: CC, IGPS 85836 (Pl. 16, fig. 18)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Callistocythere tomokoae* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, no. 1, p. 25, 26, Pl. 2, figs. 7a~c

Holotype: CC, IGPS 78892 (Pl. 2, fig. 7c), Paratypes: RV, IGPS 78890 (Pl. 2, fig. 7a); CC, IGPS 78891 (Pl. 2, fig. 7b)

Nishiichinose, W of Kanazawa-shi, Ishikawa Prefecture

Yatsuo Formation (Sunakosaka Member)

Miocene

***Callistocythere undata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 452, 453, Pl. 8, figs. 1a~d

Holotype: CC male, UMUT CA 2554 (Pl. 8, figs. 1a, b),

Allotype: CC female, UMUT CA 2555 (Pl. 8, figs. 1c, d),

Paratypes: CC male, UMUT CA 2556; CC female, UMUT CA, 2557

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

***Callistocythere undulatifacialis* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 455, Pl. 7, figs. 3a~d, Pl. 10, fig. 6

Holotype: CC male, UMUT CA 2562 (Pl. 7, figs. 3c, d, Pl. 10, fig. 6), Allotype: CC female, UMUT CA 2563 (Pl. 7, figs. 3a, b), Paratypes: CC male, UMUT CA 2564; CC female, UMUT CA 2565

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

***Callistocythere vermicularia* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 89, 90, Pl. 3, figs. 12, 16, 20, text-fig. 8

Holotype: CKUM 3708, Paratypes: CKUM 3706; CKUM 3707; CKUM 3709 (no figures)

The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan

Toukoshan Formation

Pleistocene

[=*Tanella vermicularia* (Hu, 1977) (by Hu, 1986). Three figures (Pl. 3, figs. 12, 16, 20) in the original description (Hu, 1977a) cannot be correlated with each type specimen (CKUM 3706~3708).]

***Campylocythereis* ? *ukifune* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 207, 208, Pl. 12, figs. 6, 7, 10

Holotype: LV female, UMUT CA 9856 (Pl. 12, fig. 10), Paratypes: LV male, UMUT CA 9857 (Pl. 12, fig. 7); RV male, UMUT CA 9858 (Pl. 12, fig. 6)

Loc. 284 = An exposure, 5 km E of the Yamakura-ko Lake, Ichihara-shi, Chiba Prefecture (35° 29'23''N, 140° 11'56''E)

Yabu Formation (Yabu Member)

Pleistocene

***Candona gigantea* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 426, Pl. 2, fig. 10

Holotype: RV, UMUT MA 8518 (Pl. 2, fig. 10)

Well at Tiehlipu, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 117.85~121.40 m)

Nengkiang Formation

Cretaceous

***Candona japonica* Okubo, 1990**

Bull. Biogeogr. Soc. Japan, v.45, nos. 1~22, p. 40, 42, figs. 1j~r

Holotype: CC male, FO 11 (figs. 1j, k), Allotype: CC female, FO 12 (fig. 1l), Paratypes: CC male with appendages, FO 361A (figs. 1g, m~o); appendages, FO 361B (figs. 1p, r); CC female, FO 432 (no figures); 2 CC males, FO 571, FO 573 (no figures) (all of the paratype specimens missing)

A rice field, Shiono, Seto-cho, Okayama Prefecture (34° 45.7'N, 134° 03.3'E)

Recent

***Candona liaohingensis* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 426, 427, Pl. 2, figs. 4, 5

Holotype: LV, UMUT MA 8508 (Pl. 2, fig. 5), Paratype: LV, UMUT MA 8512 (Pl. 2, fig. 4)

Well at Tiehlipu, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 117.85~121.40 m)

Nengkiang Formation

Cretaceous

***Candona takagii* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 425, 426, Pl. 2, figs. 11, 12

Holotype: RV, UMUT MA 8517 (Pl. 2, figs. 11, 12)

Well at Tiehlipu, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 111.25 m)

Nengkiang Formation

Cretaceous

***Carinocythereis nozokiensis* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, no. 1, p. 28, 29, Pl. 2, figs. 10a~d

Holotype: RV male, IGPS 78898 (Pl. 2, figs. 10b, c), Paratypes: RV female, IGPS 78897 (Pl. 2, fig. 10a); CC (Pl. 2, fig. 10d)

Nishiichinose, W of Kanazawa-shi, Ishikawa Prefecture Yatsuo Formation (Sunakosaka Member)

Miocene

[=*Hirsutocythere* ? *nozokiensis* (Ishizaki, 1963) (by Hanai et al., 1977)]

***Casterocythere* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 108, 109

Type species: *Cushmanidea transversa* Hu, 1978

***Caudites*? *acrocaudalis* (Liu, 1989)**

[See *Trachyleberidea acrocaudalis* Liu, 1989.]

***Caudites formosensis* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 98, 99, Pl. 3, figs. 13, 19, 20, text-fig. 19

Holotype: TNUM 7053, Paratypes: TNUM 7054; TNUM 7055

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Three figures (Pl. 3, figs. 13, 19, 20) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7053~7055).]

***Caudites japonicus* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 82, 83, Pl. 1, fig. 4, Pl. 5, figs. 6, 8, Pl. 6, figs. 8, 9

Holotype: LV, IGPS 91541 (Pl. 5, fig. 6, Pl. 6, fig. 9), Paratype: RV, IGPS 91542 (Pl. 1, fig. 4, Pl. 5, fig. 8, Pl. 6, fig. 8)

St. 26 = Aomori Bay, Aomori Prefecture (40° 53'30''N, 140° 51'21''E) (granules, depth 0.3 m)

Recent

[=*Hermanites* ? *japonicus* (Ishizaki, 1971) (by Hanai et al., 1977)]

***Caudites retusus* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 69, 70, Pl. 1, figs. 13, 14, text-fig. 7

Holotype: CC, TNUM 4107 (Pl. 1, figs. 13, 14)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Cavellina* ? *nipponica* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 157, 158, Pl. 17, figs. 9a, b, 10, 11, text-figs. 10, 11

Holotype: CC, IGPS 85790 (Pl. 17, figs. 9a, b, text-figs. 10, 11), Paratypes: RV, IGPS 85791 (Pl. 17, fig. 10); CC, IGPS 85792 (Pl. 17, fig. 11)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Celtia japonica* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 47, 48, Pl. 8, fig. 12; Pl. 9, fig. 8; Pl. 10, figs. 1, 2a, b, 3; Pl. 15, fig. 5

Holotype: LV, IGPS 97044 (Pl. 10, figs. 2a, b; Pl. 15, fig. 5), Paratypes: RV immature form, IGPS 97045 (Pl. 10, fig. 3); RV immature form, IGPS 97046 (Pl. 8, fig. 12; Pl. 9, fig. 8; Pl. 10, fig. 1)

St. 48 = N of East China Sea (30°0.3'N, 125°0.2'E) (fine sand, depth 60 m)

Recent

***Ceratobairdia ? ambigua* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 155, 156, Pl. 19, figs. 6a, b, 7, 8

Holotype: CC, IGPS 85810 (Pl. 19, figs. 6a, b), Paratypes: LV, IGPS 85811 (Pl. 19, fig. 7); RV, IGPS 85812 (Pl. 19, fig. 8)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Chejudocythere higashikawai* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 44, 45, Pl. 8, figs. 8a, b, 9~11; Pl. 11, figs. 14, 15; Pl. 15, figs. 10, 11a, b

Holotype: RV, IGPS 97067 (Pl. 8, fig. 11; Pl. 11, fig. 15; Pl. 15, figs. 11a, b), Paratypes: LV, IGPS 97068 (Pl. 8, fig. 10; Pl. 11, fig. 14; Pl. 15, fig. 10); LV, IGPS 97069 (Pl. 8, fig. 9); RV, IGPS 97070 (Pl. 8, figs. 8a, b)

St. 33 = S of Cheju-do (31°19.0'N, 127°6.0'E) (very fine sand, depth 110 m)

Recent

***Chejudocythere* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 43, 44

Type species: *Chejudocythere higashikawai*, Ishizaki, 1981

Recent

***Chrissia vittata* Okubo, 1974**

Proc. Japan Soc. Syst. Zool., no. 10, p. 1~9, figs. 1a~c, 2a~j

Holotype: CC female with appendages, NSMT-Cr. 4143, Paratypes: NSMT-Cr. 4144~4147

A rice field, Kaimon-cho, Kagoshima Prefecture (31°12.0'N, 130°32.0'E)

Recent

[Males unknown. Thirteen figures (figs. 1a~c, 2a~j) in the original description (Okubo, 1974) cannot be correlated with each type specimen (NSMT-Cr. 4143~4147).]

***Cletocythereis major* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 97, 98, Pl. 2, figs. 16, 19,

text-fig. 18

Holotype: RV, TNUM 7032 (Pl. 2, figs. 16, 19)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Cluthia japonica* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 63, 64, Pl. 2, figs. 12~19, text-fig. 18-3

Holotype: LV female, UMUT CA 15759 (Pl. 2, figs. 13, 18),

Paratypes: RV female, UMUT CA 15760 (Pl. 2, figs. 12, 19);

RV male, UMUT CA 15761 (Pl. 2, figs. 14, 17); LV male,

UMUT CA 15762 (Pl. 2, figs. 15, 16, text-fig. 18-3)

Loc. OT3 = An exposure along the Otanizawa River, 4 km SE of Tsurugasaka railway station, Magonai, Aomori-shi, Aomori Prefecture (40°45'12"N, 140°39'03"E)

Daishaka Formation

Plio-Pleistocene

***Cluthia subjaponica* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 9, figs. 5-3, 6-6a~e, 7a~c

Holotype: LV female, SUM CO 1218 (figs. 6-6a~e), Paratypes: LV male, SUM CO 1219 (figs. 6-7a~c); LV female, SUM CO 1220 (fig. 5-3)

Loc. 1-A16 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 4 m below the top of the Lower Member of Fujina Formation]

***Cluthia tamayuensis* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 8, 9, figs. 5-2, 6-4a~e, 5a~c

Holotype: LV female, SUM CO 1215 (figs. 6-4a~e), Paratypes: RV male, SUM CO 1216 (figs. 6-5a~c); RV female, SUM CO 1217 (fig. 5-2)

Loc. 1-A16 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 4 m below the top of the Lower Member of Fujina Formation]

***Cobanocythere? japonica* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 10~13, fig. 4

Holotype: male, FESC 498~499, Paratypes: 5 males, 6 females (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[The figures (fig. 4) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Cobanocythere ? pulchra* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 70~72, figs. 10-2, 3, 12-5a~c

Holotype: LV, UMUT CA 18009 (figs. 10-3, 12-5a~c), Paratype: RV, UMUT CA 18010 (fig. 10-2)

Loc. 0501 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34°37'20"N, 137°15'30"E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon 0501 = Ca. 1 m above the base of Tonna Bed]

***Conhoecia lepida* Chavtur, 1973**

Zool. Jour., v. 52, no. 11, p. 1639~1641, figs. 1-1~9

Holotype: CC female with appendages, FESC 2/1103 (figs. 1-1~9)

A station, off Hokkaido (40°54'N, 150°38'E)

Recent

***Conchoecia meraca* Chavtur, 1973**

Zool. Jour., v. 52, no. 11, p. 1641, 1642, figs. 2-1~9

Holotype: CC female with appendages, FESC 3/1104 (figs. 2-1~9)

A station, off Hokkaido (40°51'N, 148°32'E)

Recent

***Coquimba equa* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 124, 125, Pl. 3, figs. 1~3, 6, 9, text-fig. 4B

Holotype: CC, TNUM 10047 (Pl. 3, fig. 1), Paratypes: 2 CC, TNUM 10048, 10049 (Pl. 3, figs. 2, 3); CC, TNUM 10050 (Pl. 3, fig. 6); RV, TNUM 10051 (Pl. 3, fig. 9)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Coquimba gibboidea* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 191, 192, 194, Pl. 3, figs. 11, 14

Holotype: LV, TNUM 7257 (Pl. 3, figs. 11, 14)

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan Hengchun Limestone

Pleistocene

***Coquimba ishizakii* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 397, 398, Pl. 49, figs. 4a~c, text-fig. 7, figs. 3a, b

Holotype: CC, UMUT CA 8430 (Pl. 49, fig. 4c), Paratypes: LV, UMUT CA 8431 (Pl. 49, fig. 4b, text-fig. 7, fig. 3a); RV, UMUT CA 8432 (Pl. 49, fig. 4a, text-fig. 7, fig. 3b)

Loc. 18 = An exposure, 200 m NNE of the Sengen Shrine, Hatazawa, Kisarazu-shi, Chiba Prefecture (35°20'53"N, 139°54'30"E)

Yabu Formation

Pleistocene

***Coquimba kianofei* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 95, 96, Pl. 2, figs. 19, 21, 25, text-fig. 28

Holotype: LV, TNUM 8139 (Pl. 2, fig. 19), Paratypes: TNUM 8140, 8141 (Pl. 2, figs. 21, 25)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[=*Coquimba pustulata* (Hu and Cheng, 1977) (by Hu, 1986)]

***Coquimba nahaensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 51, Pl. 3, fig. 6

Holotype: RV, RUEG 132 (Pl. 3, fig. 6)

Loc. 8031503 = Into the campus of Yokatsu Senior High School, Katsuren-cho, Nakagami-gun, Okinawa Prefecture (26°18'30"N, 127°53'47"E)

Naha Formation ('Yokatsu' silt stone Member)

Pleistocene

***Coquimba poga* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 122, 124, Pl. 3, figs. 13, 16, 18, 21, 22, text-fig. 4C

Holotype: LV, TNUM 10061 (Pl. 3, fig. 13), Paratypes: LV, TNUM 10062 (Pl. 3, fig. 16); 3 CC 10063~10065 (Pl. 3, figs. 18, 21, 22)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Coquimba subgibba* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 191, Pl. 3, figs. 18, 20~22, 25~27

Holotype: LV, TNUM 7264 (Pl. 3, fig. 18), Paratypes: TNUM 7265~7267 (Pl. 3, figs. 20~22); CC, TNUM 7268 (Pl. 3, figs. 25, 26)

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan Hengchun Limestone

Pleistocene

***Cornucoquimba alata* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 83, 84, Pl. 10, figs. 11~15, Pl. 11, fig. 1, text-fig. 18-10

Holotype: RV male, UMUT CA 15851 (Pl. 10, fig. 11, Pl. 11, fig. 1, text-fig. 18-10), Paratypes: CC female, UMUT CA 15852 (Pl. 10, figs. 12, 15); RV immature form, UMUT CA 15853 (Pl. 10, fig. 13); LV immature form, UMUT CA 15854 (Pl. 10, fig. 14)

Loc. SW1 = A cliff along a branch stream of the Sawauchizawa River, 4 km N of Daishaka railway station, Namioka-machi, Minami-Tsugaru-gun, Aomori Prefecture (40° 47' 15''N, 140° 35' 05''E)

Daishaka Formation

Plio-Pleistocene

***Cornucoquimba kagitoriensis* Ishizaki, Fujiwara and Irizuki, 1996**

Proc. 2nd European Ostracodologists Meeting, Glasgow (1993), p. 119, Pl. 1, figs. 4~9

Holotype: CC, IGPS 102449 (Pl. 1, fig. 6), Paratypes: CC, IGPS 102447 (Pl. 1, fig. 4); CC, IGPS 102448 (Pl. 1, fig. 5); CC, IGPS 102450 (Pl. 1, fig. 7); RV, IGPS 102451 (Pl. 1, figs. 8, 9)

A river bank outcrop of the Natori River S of Kagitori near the southern border of Sendai-shi, Miyagi Prefecture

Tsunaki Formation

Upper Miocene

***Cornucoquimba moniwiensis* (Ishizaki, 1966)**

[See *Hermanites moniwiensis* Ishizaki, 1966.]

***Cornucoquimba rugosa* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 46~48, Pl. 3, figs. 1a, 1b, 2a, 2b, 3~5, Pl. 7, fig. 3; text-figs. 15a, b

Holotype: CC, IGSU-O-19 (Pl. 3, figs. 1a, 1b, 2a, 2b, 3~5, Pl. 7, fig. 3), Paratype: CC, IGSU-O-72 (text-figs. 15a, b)

St. 56 = Off Enshu-nada, 6 km W of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34° 40' 18''N, 137° 32' 03''E) (well-sorted medium sand, depth 5.9 m)

Recent

***Cornucoquimba saitoi* (Ishizaki, 1963)**

[See *Bradleya saitoi* Ishizaki, 1963.]

***Cornucoquimba shimajiriensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 2, 13, 15, 20, 51, 52, Pl. 3, figs. 4a, b

Holotype: CC, RUEG 133 (Pl. 3, figs. 4a, b)

Loc. 7592502 = Ca. 1.5 km WNW of Asato, Gushikami-son, Shimajiri-gun, Okinawa Prefecture (26° 07' 18''N, 127° 43' 10''E)

Chinen Formation

Pleistocene

***Cornucoquimba tosaensis* (Ishizaki, 1968)**

[See *Hermanites tosaensis* Ishizaki, 1968.]

***Cornucoquimba yajimae* Nohara, 1981**

Bull. Coll. Educ., Univ. Ryukyus, no. 25, pt. 2, p. 44, 45, Pl. 1, figs. 4a, b

Holotype: RV, RUEG 72 (Pl. 1, figs. 4a, b), Paratype: CC, RUEG 73 (no figures)

Loc. 1B (no. 7512302) = An outcrop along Machinato River, Minatogawa, Urasoe-shi, Okinawa Prefecture (Type locality of Naha Formation) (26° 15' 48''N, 127° 43' 42''E)

Naha Formation

Pleistocene

***Coronakirkbya hataii* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 54, Pl. 1, fig. 4

Holotype: RV, IGPS 87070 (Pl. 1, fig. 4)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Coronakirkbya ohazamensis* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 54, 55, Pl. 1, figs. 1~3

Holotype: RV, IGPS 87071 (Pl. 1, fig. 1), Paratypes: LV, IGPS 87072 (Pl. 1, fig. 2); RV, IGPS 87073 (Pl. 1, fig. 3)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Costa costa* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 193, 194, figs. 27-7, 16, 19, 20, 21, 24, text-fig. 12

Holotype: CKUM 3581 (fig. 27-16), Paratypes: CKUM 3578 (no figures); CKUM 3579; CKUM 3580; CC, CKUM 3582 (fig. 27-7); CC, CKUM 3583 (figs. 27-21, 24)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[= *Nodosocosta costa* (Hu, 1977) (by Hu, 1984). Two figures (figs. 27-19, 20) in the original description (Hu, 1977b) cannot be correlated with each type specimen (CKUM 3579, 3580).]

***Costa sinensis* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 67, 68, Pl. 1, figs. 9, 10, text-figs. 5C, D

Holotype: LV, TNUM 4106 (Pl. 1, figs. 9, 10, text-fig. 5C, D)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone
Pleistocene

[=*Acanthocythereis niitsumai* (Ishizaki, 1971) (by Hu, 1986)]

***Cushmanidea carpeta* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 202, 203, figs. 25-9, 12, 14, 15, text-fig. 20

Holotype: CKUM 3554 (fig. 25-14), Paratypes: CKUM 3553 (fig. 25-15); RV, CKUM 3555 (fig. 25-12); CKUM 3556 (fig. 25-9)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Pontocythere kashiwarensis* (Hanai, 1959) (by Hu, 1986)]

***Cushmanidea formosana* Hu, 1976**

Proc. Geol. Soc. China, no. 19, p. 43, 44, Pl. 2, figs. 15, 17-21, text-fig. 14

Holotype: LV, CKUM 2026 (Pl. 2, figs. 18, 21), Paratypes: CKUM 2027; CKUM 2028; CKUM 2029; CKUM 2030 (no figures)

Loc. 6 or 13 or 14 = 8.5 km, 3.5 km, 2.5 km SE of Tsaochiao station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan
Cholan Formation

Upper Pliocene

[=*Pontocythere subjaponica* (Hanai, 1959) (by Hu, 1986). Four figures (Pl. 2, figs. 15, 17, 19 and 20) in the original description (Hu, 1976) cannot be correlated with each type specimen (CKUM 2027-2029).]

***Cushmanidea japonica* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 297, 298, Pl. 16, figs. 1-3

Holotype: CC female, UMUT CA 2889 (Pl. 16, figs. 2a, b), Allotype: CC male, UMUT CA 2890 (Pl. 16, figs. 1a, b), Paratype: CC female, UMUT CA 2891 (Pl. 16, figs. 3a-d)

Beach sand along the shore in front of the Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Pontocythere japonica* (Hanai, 1959) (by Hanai *et al.*, 1977)]

***Cushmanidea kashiwarensis* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 297, Pl. 17, figs. 1-4

Holotype: CC female, UMUT CA 2885 (Pl. 17, figs. 2a, b), Allotype: CC male, UMUT CA 2886 (Pl. 17, fig. 3), Paratypes: CC male, UMUT CA 2887 (Pl. 17, figs. 1a, b); CC female, UMUT CA 2888 (Pl. 17, fig. 4)

The shore of Kashiwara, about 200 m SE of Dozanto, near Yamaga, Ashiya-machi, Onaga-gun, Fukuoka Prefecture (beach sand)

Recent

[=*Pontocythere kashiwarensis* (Hanai, 1959) (by Hanai *et al.*, 1977)]

***Cushmanidea miurensis* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 299, Pl. 16, figs. 7-10, text-figs. 1a, b

Holotype: CC male, UMUT CA 2896 (Pl. 16, figs. 8a, b), Allotype: CC female, UMUT CA 2897 (Pl. 16, figs. 9a, b), Paratypes: CC male, UMUT CA 2898 (Pl. 16, figs. 7a-d, text-figs. 1a, b); CC female, UMUT CA 2899 (Pl. 16, figs. 10a, b); CC female, UMUT CA 2900

The shore in front of the Imperial villa, Hayama-cho, Kanagawa Prefecture (Recent beach sand)

Recent

[=*Pontocythere miurensis* (Hanai, 1959) (by Hanai *et al.*, 1977)]

***Cushmanidea subjaponica* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 298, 299, Pl. 16, figs. 4-6

Holotype: CC male, UMUT CA 2892 (Pl. 16, figs. 4a, b), Allotype: CC female, UMUT CA 2893 (Pl. 16, figs. 5a, b), Paratypes: CC male, UMUT CA 2894; CC female, UMUT CA 2895 (Pl. 16, figs. 6a-d)

The shore in front of the Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Pontocythere subjaponica* (Hanai, 1959) (by Hanai *et al.*, 1977)]

***Cushmanidea transversa* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 152, 153, Pl. 2, figs. 6-9, text-fig 27

Holotype: CKUM 3773 (Pl. 2, fig. 8), Paratypes: CKUM 3771 (Pl. 2, fig. 6); LV, CKUM 3772 (Pl. 2, fig. 7); CKUM 3773; CKUM 3774 (Pl. 2, fig. 9); CKUM 3775, 3776 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Casterocythere transversa* (Hu, 1978) (by Hu, 1986)]

***Cyclasterope hilgendorffii* (G.W. Müller, 1890)**

[See *Asterope hilgendorffii* G.W. Müller, 1890.]

***Cycloleberis brevis* (G.W. Müller, 1890)**

[See *Asterope brevis* G.W. Müller, 1890.]

***Cylindroleberis obalis* Kajiya, 1912**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 24, no. 289, p. 618, Pl. 9, figs. 39, 40

Holotype: not designated (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

[=*Cylindroleberis* ? *obalis* Kajiya, 1912 (by Hanai *et al.*, 1977)]

***Cylindroleberis* ? *obalis* Kajiya, 1912**

[See *Cylindroleberis obalis* Kajiya, 1912)]

***Cypria biwaense* Okubo, 1990**

Res. Crustacea, no. 19, p. 2, 3, figs. 1A~D, 2A, C, D

Holotype: CC male with appendages, FO 513 (figs. 1C, D, 2A), Allotype: CC female, FO 515 (figs. 1A, B), Paratypes: CC female, FO 501 (no figures); CC male, FO 505 (figs. 2C, D) (all of the paratype specimens missing)

Western beach of Lake Biwa, Shiga Prefecture (on filamentous green algae, depth ca.1m) (35° 11.5'N, 135° 58.3'E)

Recent

***Cypridea metacyproides* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 415, 416, Pl. 1, figs. 4, 5

Holotype: LV, UMUT MA 8513 (Pl. 1, fig. 5), Paratype: LV, UMUT MA 8514 (Pl. 1, fig. 4)

Well at Tiehli, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 84.9~91.6 m)

Nengkiang Formation

Cretaceous

***Cypridea subvaldensis* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 410~414, Pl. 2, figs. 1~3, 15, text-figs. 1~7

Holotype: CC male, UMUT MA 8501 (Pl. 2, fig. 1), Allotype: CC female, UMUT MA 8502 (Pl. 2, fig. 2), Paratype: LV, UMUT MA 8525 (Pl. 2, fig. 3)

Well at the hill about 20 m high, located about 2 km N of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 114.3 m)

Nengkiang Formation

Cretaceous

***Cypridea sungariana* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 414, 415, Pl. 1, figs. 11, 12

Holotype: LV, UMUT MA 8909 (Pl. 1, fig. 11), Paratype: LV, UMUT MA 8510 (Pl. 1, fig. 12)

Well at Tiehli, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 84.9~91.6 m)

Nengkiang Formation

Cretaceous

***Cypridea tuberculatiformis* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 416, 417, Pl. 1, figs. 8, 9.

Holotype: RV, UMUT MA 8515 (Pl. 1, fig. 8), Paratype: LV, UMUT MA 8516 (Pl. 1, fig. 9)

Well at Tiehli, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 84.9~91.6 m)

Nengkiang Formation

Cretaceous

***Cyprideis yehi* Hu and Yeh, 1978**

Proc. Geol. Soc. China, no. 21, p. 157~159, Pl. 3, figs. 10~13, text-fig. 5

Holotype: CKUM 3929, Paratypes: CKUM 3930; CC, CKUM 3931 (Pl. 3, fig. 11); CKUM 3932 (Pl. 3, fig. 13); CKUM 3933, 3934 (no figures)

0.5 km S of the Liushuang village, Kuantien-hsien, Tainan-hsien, Tainan District, Taiwan

Liushuang Formation

Pleistocene

[=*Sinocytheridea impressa* (Brady, 1869) (by Whatley and Zhao, 1987). Two figures (Pl. 3, figs. 10, 12) in the original description (Hu and Yeh, 1978) cannot be correlated with each type specimen (CKUM 3929, 3930).]

***Cypridina hilgendorffii* G. W. Müller, 1890**

Zool. Jahrb. System., no. 5, p. 228~230, Pl. 25, fig. 9, Pl. 26, figs. 1~3, Pl. 27, figs. 23, 30

Holotype: not designated. several individuals, ZMB 6905 (wet samples); 2 micro slide glass mounted appendages, M 1297, 1298

Enoshima (Exact locality is not known)

Recent

[=*Cypridina* (*Vargula*) *hilgendorffii* (G. W. Müller, 1890) (by Skogsberg, 1920) =*Vargula hilgendorffii* (G. W. Müller, 1890) (Hanai, 1974). Information of the original specimen is based on Yajima (1997, p. 30~32).]

***Cypridina japonica* Brady, 1866**

Trans. Zool. Soc. London, v. 5, p. 386, Pl. 62, figs. 8a~d

Types: HMNT collection

Exact locality unknown, Japan (towing-net)

Recent

[=*Cypridina* ? *japonica* Brady, 1866 (by Hanai *et al.*, 1977)]

***Cypridina japonica* G. W. Müller, 1890**

Zool. Jahrb. System., no. 5, p. 233, 234, Pl. 25, fig. 2, Pl. 26, fig. 10

Holotype: not designated (ZMB collection)

Off Enoshima, Fujisawa-shi, Kanagawa Prefecture

Recent

[=Junior homonym of *Cypridina japonica* Brady, 1866. This species need a new name. Therefore, before replacing the rejected homonym by a new name, the relationships between the specimens described by both G. W. Müller (1890) and Kajiya (1912) require further study (by Hanai *et al.*, 1977). The specimens of G. W. Müller's were collected by F.

Hilgendorf in the period of 1873 to 1876 (G. W. Müller, 1890).]

***Cypridina ? japonica* Brady, 1866**

[See *Cypridina japonica* Brady, 1866]

***Cypridina noctiluca* Kajiyama, 1912**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 24, no. 289, p. 612, Pl. 9, fig. 15

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Cypridina pellucida* Kajiyama, 1912**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 24, no. 289, p. 611, Pl. 9, figs. 9~11

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

[=*Paradoloria pellucida* (Kajiyama, 1912) (by Hanai, 1974)]

***Cypridopsis japonica* Okubo, 1990**

Bull. Biogeogr. Soc. Japan, v. 45, nos. 1~22, p. 48, figs. 3m~p

Holotype: CC female with appendages, FO 339 (figs. 3m, n, p) (the specimen missing), Paratypes: CC females, FO 291 (fig. 3o) (the specimen missing); 2 females, FO 292, 293 (the specimen missing)

A paddy field, Shionou, Seto-cho, Okayama Prefecture (34° 45.5'N, 134° 03.5'E)

Recent

[Males unknown]

***Cypridopsis kurilensis* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 137-139, text-fig. 1

Holotype: CC female with appendages, FESC-414~415, Paratype: 14 females, 40 juveniles

Supralittoral zone of Cirip Peninsula, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

***Cypridopsis nigrovittata* Okubo, 1990**

Bull. Biogeogr. Soc. Japan, v. 45, nos. 1~22, p. 48, 49, figs. 3q~s

Holotype: CC female, FO 232 (no figures), Paratypes: 3 CC females, FO 236~238 (no figures); CC female with appendages, FO 466 (figs. 3q~s) (the specimen missing)

Kibitsu, Okayama-shi, Okayama Prefecture (34° 40.2'N, 133° 52.2'E)

Recent

[Paratype specimen is figured as figs. 3q~s (FO 466), but the

figures of holotype (FO 232) specimen is not shown. Males unknown.]

***Cypridopsis parallela* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 420, 421, Pl. 2, figs. 13, 14

Holotype: LV, UMUT MA 8521 (Pl. 2, fig. 14), Paratype: LV, UMUT MA 8522 (Pl. 2, fig. 13)

Well at Tiehlipu, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 84.9~91.6 m)

Nengkiang Formation

Cretaceous

***Cypridopsis uenoi* Brehm, 1933**

Trans. Nat. Hist. Soc. Formosa, v. 23, nos. 128, 129, p. 297, 298

Holotype: not designated

Tamagawa, Suwa-gun, Nagano Prefecture

***Cyprinotus kaufmanni* Vávra, 1906**

2001, Jahrb. Syst., v. 23, p. 424, 425, pl. 23, figs. 15-20.

Holotype: not designated

Osawa temple (Suwa-jinja, Uma-machi) Nagasaki-shi, Nagasaki Prefecture

[=*Heterocypris kaufmanni* (Vávra, 1906) (by Okubo, 1974a)]

***Cyprinotus setoensis* Okubo, 1990**

Res. Crustacea, no. 19, p. 4~6, figs. 2 I, J

Holotype: CC female, FO 387 (figs. 2I, J), Paratypes: 3 CC females, FO 383~385 (no figures)

A paddy field, near coast of Tamashima-Kurosaki, Kurashiki-shi, Okayama Prefecture (34° 30.8'N, 133° 39.0'E)

Recent

[Males unknown.]

***Cypris subtriangularis* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 418~420, Pl. 2, figs. 6~8, text-figs. 8~10

Holotype: CC, UMUT MA 8503 (Pl. 2, fig. 6), Paratype: CC, UMUT MA 8504 (Pl. 2, figs. 7, 8)

Well at about 2 km W of the railway station between Harbin and Changchun, Manchuria (depth 15 m)

Nengkiang Formation

Cretaceous

***Cythere acupunctata* Brady, 1880**

Rept. Voyage Challenger, Zool., v. 1, pt. 3, p. 68, Pl. 14, figs. 1a~h

Lectotype: CC, BMNH 80.38.50 (Pl. 8, fig. 5 in Puri and Hulings, 1976)

Challenger St. 233b = Setonaikai (34° 18.0'N, 133° 35.0'E, trawled) (mud, 15 fathoms)

[=*Cytheromorpha acupunctata* (Brady, 1880) (by Hanai, 1961a)]

***Cythere bicarinata* Brady, 1880**

Rept. Voyage Challenger, Zool., v. 1, pt. 3, p. 70, Pl. 16, figs. 6a~d

Lectotype: CC, BMNH, B. M. 80.38.50 (Pl. 10, figs. 12, 13 in Puri and Hulings, 1976)

Challenger St. 233b = Setonaikai (34° 20.0'N, 133° 35.0'E, trawled) (mud, 15 fathoms)

[=*Nipponocythere bicarinata* (Brady, 1880) (by Hanai *et al.*, 1977)]

***Cythere boreokurila* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 147, 148, Pl. 1, figs. 4a~d, text-fig. 6

Holotype: CC male, No. 353~354, Paratypes: no numbers

The Inlet of Paramushir Island, Kuril Islands

Recent

[The figures (Pl. 1, figs. 4a~d, text-fig. 6) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Cythere cronini* Tsukagoshi and Ikeya, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 148, p. 206, 208, figs. 5b, 6-2 a~d, 10-3 a~c

Holotype: CC male, IGSU-O-521 (figs. 6-2a, b), Paratypes: CC female, IGSU-O-522 (figs. 6-2c, d); RV female, IGSU-O-523 (no figures); LV female, IGSU-O-524 (no figures); RV female, IGSU-O-553 (figs. 10-3a, c); LV female, IGSU-O-554 (fig. 10-3b)

79TC5 (T. M. Cronin's sample) = "T's" corner (Loc. H-8 of R.B. Mixon), Accomack County, Virginia, U. S. A. (See Mixon, 1985.)

Omar Formation (Accomack Member)

Pleistocene

***Cythere cymba* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 157, Pl. 16, figs. 1~4

Lectotype: CC male, HMNT 1.57.36 (Pl. 2, figs. 9~11 in Whatley and Zhao, 1987), Paralectotype: CC female, HMNT 1.57.38 (Pl. 2, fig. 12 in Whatley and Zhao, 1987)

Hong Kong

Recent

[=*Aurila cymba* (Brady, 1869) (by Hanai *et al.*, 1977)]

***Cythere euplectella* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 157, 158, Pl. 16, figs. 5~7

Lectotype: RV, HMNT 1.15.17 (Pl. 2, fig. 8 in Whatley and Zhao, 1987), Paralectotypes: LV, HMNT 1.15.15 (Pl. 2, fig. 7 in Whatley and Zhao, 1987); CC, CERS 68.22.53 (Pl. 2, fig. 6 in Whatley and Zhao, 1987)

Hong Kong

Recent

[=*Lankacythere ? euplectella* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Cythere golikovi* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 141, 142, text-fig. 2

Holotype: CC male with appendages, FESC-355~356, Paratypes: no numbers

Konsyervnaya Bay, Okhotsk seashore, Iturup Is., Kuril Islands (depth 4 m)

Recent

[The figures (text-fig. 2) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Cythere hanaii* Tsukagoshi and Ikeya, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 148, p. 208, 210, figs. 5d, 7-1 a~d

Holotype: RV male, IGSU-O-527 (fig. 7-1a), Paratypes: LV male, IGSU-O-528 (fig. 7-1b); RV female, IGSU-O-529 (fig. 7-1c); LV female, IGSU-O-530 (fig. 7-1d)

840902-5 = An exposure along Hanyu River, ca. 250 m W of Hanyu-mura, Sawane-machi, Sado Island, Japan (37° 59.4'N, 138° 15.9'E)

Kaidate Formation

Middle Pleistocene

***Cythere japonica* Hanai, 1959**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 4, p. 413, 414, Pl. 28, figs. 1, 3, 7a, b, text-figs. 3a, b

Holotype: RV, UMUT CA 3342 (Pl. 28, fig. 7a, text-fig. 3b), Paratypes: LV, UMUT CA 3343; RV, UMUT CA 3344 (Pl. 28, fig. 1); LV, UMUT CA 3345 (Pl. 28, figs. 3, 7b, text-fig. 3a)

The cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata Prefecture (37° 59.9'N, 138° 16.6'E)

Sawane Formation

Pleistocene

***Cythere kamikoaniensis* Tsukagoshi and Ikeya, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 148, p. 210, 211, figs. 5e, 7-2a~d

Holotype: RV male, IGSU-O-531 (fig. 7-2a), Paratypes: LV male, IGSU-O-532 (fig. 7-2b); RV female, IGSU-O-533 (fig. 7-2c); LV female, IGSU-O-534 (fig. 7-2d)

TG006 (S. Ito's sample) = An exposure at the upper most coast of Busssha River, ca. 2.6 km WNW of Kobuchi railroad station of the Aniai Line, Kamikoani-mura, Kita-Akita-gun, Akita Prefecture, Japan (40° 02.5'N, 140° 22.6'E)

Kamikoani Formation

Late Miocene

***Cythere kishinouyei* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 11, Pl. 1, figs. 61~63

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

[=*Schizocythere kishinouyei* (Kajiyama, 1913) (by Hanai, 1961a)]

***Cythere lutea omotenipponica* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 4, p. 413, Pl. 28, figs. 5a, b

Holotype: RV, UMUT CA 3338 (Pl. 28, fig. 5a), Paratypes: LV, UMUT CA 3339 (Pl. 28, fig. 5b); RV, UMUT CA 3340; LV, UMUT CA 3341

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Cythere omotenipponica* Hanai, 1959 (by Schornikov, 1975)]

***Cythere lutea uranipponica* Hanai, 1959**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 4, p. 412, 413, Pl. 28, figs. 2, 6a, b, text-figs. 2a, b

Holotype: RV, UMUT CA 3333 (Pl. 28, fig. 2, text-fig. 2b), Paratypes: LV, UMUT CA 3334; RV, UMUT CA 3335; LV, UMUT CA 3336 (Pl. 28, fig. 6b, text-fig. 2a); RV, UMUT CA 3337 (Pl. 28, fig. 6a)

The cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata Prefecture

Sawane Formation

Pliocene

[=*Cythere uranipponica* Hanai, 1959 (by Ikeya and Tsukagoshi, 1988)]

***Cythere nishinipponica* Okubo, 1976**

Res. Bull. Okayama Shujitsu Jr. Coll., no. 6, p. 113~117, figs. 1a~m, 2a~i, 3a~j

Holotype: CC female with appendages, MO 461 (=NSMT-Cr 15273) (figs. 1a, b, 3a~g, c', d'), Paratypes: CC male with appendages, MO 459 (figs. 1c, d, g, h, 2a~h, b', d', d'', g', h') (the specimen missing); CC juvenile (A-1 stage) with appendages, MO 460 (figs. 1e, f, 3h~m) (the specimen missing); CC male with appendages, MO 462 (=NSMT-Cr 15274) (no figures); CC juvenile (A-1 stage) with appendages, MO 465 (=NSMT-Cr 15275) (no figures); CC male with appendages, MO 466 (fig. 2i) (the specimen missing); CC female, MO 468 (fig. 1c) (the specimen missing); CC female, MO 470 (figs. 1j~m) (the specimen missing)

The intertidal zone on coast of Ozuchi-jima, Okayama Prefecture (34° 25.0'N, 133° 55.3'E)

Recent

***Cythere nopporoensis* Tsukagoshi and Ikeya, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 148, p. 212, 214, figs. 5h, 8-3a~d, 10-4

Holotype: RV male, IGSU-O-537 (fig. 8-3a), Paratypes: LV

male, IGSU-O-538 (fig. 8-3b); RV female, IGSU-O-539 (figs. 8-3c, 10-4); LV female, IGSU-O-540 (fig. 8-3d)

Nop. 3 = An exposure behind the "Kyoei" industrial district, ca. 2.8 km NNW of Kita-Hiroshima railroad station of the Chitose Line, Sapporo-gun, central Hokkaido, Japan (43° 00.1'N, 141° 33.1'E)

Nopporo Formation

Late Pleistocene

***Cythere omotenipponica* Hanai, 1959**

[See *Cythere lutea omotenipponica* Hanai, 1959.]

***Cythere quadriaculeata* Brady, 1880**

Rept. Voyage Challenger, Zool., v. 1, pt. 3, p. 86, p. 87, Pl. 25, figs. 4a~d

Lectotype: CC, BMNH 80.38.50 (Pl. 14, figs., 14~18, text-fig. 8 in Puri and Hulings, 1976)

Challenger St. 233b = Setonaikai (34° 18.0'N, 133° 35.0'E, trawled) (mud, 15 fathoms)

[=*Spinileberis quadriaculeata* (Brady, 1880) (by Hanai, 1961b)]

***Cythere rectangulata* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 10, 11, Pl. 1, figs. 56~60

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

[=*Callistocythere rectangulata* (Kajiyama, 1913) (by Hanai, 1957)]

***Cythere salebrosa* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 158, Pl. 16, figs. 8~10

Holotype: RV, CERS 68.21.40 (Pl. 2, figs. 13, 14 in Whatley and Zhao, 1987)

Hong Kong

Recent

[=*Robstaurila salebrosa* (Brady, 1869) (by Ikeya and Hino, 1990)]

***Cythere sanrikuensis* Tsukagoshi and Ikeya, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 148, p. 214, 216, figs. 4f, 5j, 9-2a~d

Holotype: RV male, IGSU-O-543 (fig. 9-2a), Paratypes: male copulatory organ, IGSU-O-542 (fig. 4f); LV male, IGSU-O-544 (fig. 9-2b); RV female, IGSU-O-545 (fig. 9-2c); LV female, IGSU-O-546 (fig. 9-2d)

760808-12 = Tidal zone of Kesaiso, Motoyoshi-gun, Miyagi Prefecture, Japan (38° 45.7'N, 141° 31.6'E) (fine sand)

Recent

***Cythere scabrocuneata* Brady, 1880**

Rept. Voyage Challenger, Zool., v. 1, pt. 3, p. 103, Pl. 17, figs.

5e, f, figs. 5a~d, (not) Pl. 23, figs. 2a~c

Lectotype: BMNH 1952. 12. 10. 1, 2 (specimen lost), Paralectotypes: LV male, BMNH 1948. 3. 10. 1 (Pl. 122, figs. 13, 15, 17 in Sylvester-Bradley, 1948; Pl. 1, fig. 5, Pl. 2, figs. 5, 9 in Harding and Sylvester-Bradley, 1953); male, BMNH 1948. 3. 10. 2 (Pl. 1, fig. 6 in Harding and Sylvester-Bradley, 1953); BMNH 1948. 3. 10. 3 (no figures in Harding and Sylvester-Bradley, 1953); LV female, BMNH 1948. 3. 10. 4 (Pl. 122, figs. 14, 18 in Sylvester-Bradley, 1948); RV female, BMNH 1948. 3. 10. 5 (Pl. 122, fig. 16 in Sylvester-Bradley, 1948; Pl. 1, fig. 8, Pl. 2, figs. 6, 10 in Harding and Sylvester-Bradley, 1953); BMNH 1952. 12. 10. 3~9 (no figures in Harding and Sylvester-Bradley, 1953); BMNH 1952. 12. 10. 10~12 (no figures)

Challenger St. 233b = Setonaikai (34°20.0'N, 133°35.0'E) (mud, ca. 24. 7 m)

Recent

[=*Trachyleberis scabrocuneata* (Brady, 1880) (by Brady, 1998). Lectotype was designated by Harding and Sylvester Bradley, 1953, p. 12.]

***Cythere schornikovi* Ikeya and Tsukagoshi, 1988**

In Hanai, T., Ikeya, N. and Ishizaki, K. (eds.), *Evolutionary Biology on Ostracoda, its fundamentals and applications*, p. 911~915, Pl. 3, figs. a~n, text-figs. 7I~L. Kodansha, Tokyo
Holotype: CC male, IGSU-O-453 (Pl. 3, figs. a, b), Paratypes: CC female, IGSU-O-454 (Pl. 3, figs. c, d); CC female, IGSU-O-455 (Pl. 3, figs. e, f); CC male, IGSU-O-456 (Pl. 3, fig. g); CC female, IGSU-O-457 (Pl. 3, fig. h); IGSU-O-451, 452 (no figures)

The tidal zone of rocky shore, Okenepu, Nemuro-shi, Hokkaido, Japan (43°20.2'N, 145°45.5'E)

Recent

***Cythere simplex* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 199, 200, figs. 24-16, -17, -19, -20, -22, -23, -25, text-fig. 17.

Holotype: CKUM 3525 (fig. 24-16), Paratypes: CKUM 3528 (fig. 24-20); CKUM 3524 (fig. 24-22); CKUM 3523 (fig. 24-23); CKUM 3529 (fig. 24-25); CKUM 3526; CKUM 3527

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Cythere omotenipponica* (by Malz and Ikeya, 1983). Two figures (figs. 24-17, 19) in the original description (Hu, 1977b) cannot be correlated with each type specimen (CKUM 3526, 3527).]

***Cythere uranipponica* Hanai, 1959**

[See *Cythere lutea uranipponica* Hanai, 1959.]

***Cythere urupensis* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 145~147, Pl. 1, figs. 3a~d, text-fig. 5

Holotype: CC male, No. 351-352, Paratypes: no numbers Shikotan Island and Iturup Island, Kuril Islands (?)

Recent

[The figures (Pl. 1, figs. 3a~d, text-fig. 5) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Cythere valentinei* Tsukagoshi and Ikeya, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 148, p. 217, 218, figs. 5n, 10-2a~d

Holotype: RV male, IGSU-O-549 (fig. 10-2a), Paratypes: LV male, IGSU-O-550 (fig. 10-2b); RV female, IGSU-O-551 (fig. 10-2c); LV female, IGSU-O-552 (fig. 10-2d)

820829-1a = Cape Blanco, Oregon, U.S.A. (42°50.5'N, 124°25.3'W) (= USGS Cenozoic locality M 1450 (See Addicott, 1964.))

Pleistocene (terrace deposits)

***Cythereis assimilis* Kajiya, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 14, Pl. 1, fig. 76

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

[=*Cythere salebrosa* Brady, 1869 = *Robstaurila salebrosa* (Brady, 1869) (by Ikeya and Hino, 1990)]

***Cythereis subconvexa* Kajiya, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 14, Pl. 1, figs. 74, 75

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

[=*Aurila subconvexa* (Kajiya, 1913) (by Hanai *et al.*, 1977) = *Aurila cymba* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Cytherella cingulata* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 159, Pl. 16, figs. 24, 25

Lectotype: RV female, CERS 68. 18. 59 (Pl. 1, fig. 1 in Whatley and Zhao, 1987), Paralectotype: LV female, HMNT 2.05.43 (Pl. 1, fig. 2 in Whatley and Zhao, 1987)

Hong Kong

Recent

[=*Cytherelloidea cingulata* (Brady, 1869) (by Kingma, 1948)]

***Cytherella elliptica* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy

of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 162, Pl. 172, figs. 10, 11
Holotype: CC, DJ 0104 (Pl. 172, figs. 10, 11)
East China Sea
Lingfeng Formation
Paleocene

***Cytherella foveolata* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 163, Pl. 172, fig. 13
Holotype: CC, DJ 0098 (Pl. 172, fig. 13)
East China Sea
Lingfeng Formation
Paleocene

***Cytherella japonica* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 140, 141, Pl. 32, figs. 3, 4, 6, 7
Holotype: LV, IGPS 97809 (Pl. 32, fig. 6), Paratypes: LV, IGPS 97807 (Pl. 32, figs. 4a, b); RV, IGPS 97808 (Pl. 32, figs. 3a, b); RV, IGPS 97810 (Pl. 32, fig. 7)
About 80 m W of Ono Yasuda-cho, Aki-gun, Kochi Prefecture
Ananai Formation
Pliocene
[=*Cytherella leizhouensis* Gou, 1983 (by Zhou, 1995).
Sample horizon H3 = Ca. 3 m below the top of Ananai Fm.]

***Cytherella laevigata* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 161, Pl. 172, fig. 5
Holotype: CC, DJ 0072 (Pl. 172, fig. 5), Paratypes: CC, RV 0149a; RV, DJ 0149b (no figures)
East China Sea
Oujiang Formation
Early Eocene

***Cytherella lepida* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 161, Pl. 172, figs. 3, 4
Holotype: CC, DJ 0073 (Pl. 172, figs. 3, 4)
East China Sea
Oujiang Formation
Early Eocene

***Cytherella posticlina* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 161, 162, Pl. 172, figs. 8, 9
Holotype: CC, DJ 0103 (Pl. 172, figs. 8, 9)
East China Sea
Oujiang Formation
Early Eocene

***Cytherella punctata* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 162, 163, Pl. 172, fig. 12
Holotype: LV, DJ 0076 (Pl. 172, fig. 12)
East China Sea
Lingfeng Formation
Paleocene

***Cytherella rotunda* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 162, Pl. 172, figs. 1, 2
Holotype: CC, DJ 0075 (Pl. 172, figs. 1, 2)
East China Sea
Lingfeng Formation
Paleocene

***Cytherelloidea ambigua* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 103, 104, Pl. 4, figs. 10~13, 19, text-fig. 19
Holotype: RV, CKUM 3648 (Pl. 4, figs. 13, 19), Paratypes: CKUM 3647; CKUM 3649
The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan
Toukoshan Formation
Pleistocene
[Three figures (Pl. 4, figs. 10~12) in the original description (Hu, 1977a) cannot be correlated with each type specimen (CKUM 3647, 3649).]

***Cytherelloidea amiea* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 83, 84, Pl. 2, figs. 18, 22, 23, text-figs. 21A, C, D
Holotype: RV, TNUM 4136 (Pl. 2, fig. 23), Paratype: LV, TNUM 4137 (Pl. 2, figs. 18, 22)
An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone
Pleistocene

***Cytherelloidea asatoensis* Nohara, 1976**

Bull. Coll. Educ., Univ. Ryukyus, no. 20, pt. 2, p. 1, Pl. 1, figs. 1, 5
Holotype: RV, RUEG 41(Pl. 1, fig. 1), Paratype: LV juvenile form, RUEG 42 (Pl.1, fig. 5)
Loc. 7592601-B = Ca. 1 km N of Asato, Gushikami-son, Shimajiri-gun, Okinawa Prefecture (26° 07'18''N, 127° 43'10''E)
Shinzato Formation
Pliocene

***Cytherelloidea cinctoidea* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 73, 74, Pl. 1, figs. 3~7, text-fig. 13
Holotype: TUM 4003, Paratypes: TUM 4002, 4004
The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan
Hungchun Limestone
Late Pleistocene / Holocene
[Five figures (Pl. 1, figs. 3~7) in the original description (Hu, 1979) cannot be correlated with each type specimen (TUM 4002~4004).]

***Cytherelloidea emarginata* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 48, 49, Pl. 1, figs. 9, 10, text-fig. 19
Holotype: LV, CKUM 2054 (Pl. 1, figs. 9, 10)
Loc. 6 = 7 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan
Cholan Formation
Upper Pliocene

***Cytherelloidea hanaii* Nohara, 1976**

Bull. Coll. Educ., Univ. Ryukyus, no. 20, pt. 2, p. 1, 2, Pl. 1, fig. 2
Holotype: LV RUEG, 43 (Pl. 1, fig. 2)
Loc. 7571602-B = A cliff, Yakana, Yonashiro-son, Okinawa Prefecture (26° 19'N, 127° 55'E)
Shinzato Formation
Pleistocene

***Cytherelloidea kianofeipunae* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 104, 105, Pl. 9, figs. 5, 10, 16, text-fig. 37
Holotype: RV, TNUM 8052, Paratypes: RV, TNUM 8053; LV, TNUM 8054 (Pl. 9, fig. 16)
The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)
Ssukou Formation
Pleistocene

[=*Cytherelloidea cinctoidea* Hu, 1979 (by Hu, 1986). Two figures (Pl. 9, figs. 5, 10) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8052, 8053).]

***Cytherelloidea munechikai* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 43, Pl. 8, figs. 1~3
Holotype: RV, IGPS 90324 (Pl. 8, fig. 1), Paratypes: LV, IGPS 90325 (Pl. 8, fig. 2); LV immature form, IGPS 90327 (Pl. 8, fig. 3)
St. 146 = Uranouchi Bay, Kochi Prefecture (33° 26'17''N, 133° 27'15''E) (medium sand, depth 3 m)
Recent

***Cytherelloidea nagoensis* Nohara, 1976**

Bull. Coll. Educ., Univ. Ryukyus, no. 20, pt. 2, p. 2, 3, Pl. 1, fig. 4
Holotype: LV, RUEG 45 (Pl. 1, fig. 4)
Loc. 7572003-A = River bed of Haneji River in front of Haneji Junior High School, Nago-shi, Okinawa-jima, Okinawa Prefecture (26° 37'10''N, 128° 01'25''E)
Nakoshi Formation
Pleistocene

***Cytherelloidea orientalis orientalis* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 83, 84, Pl. 4, figs. 33, 34, text-fig. 2
Holotype: RV, TNUM 7087 (Pl. 4, figs. 33, 34)
Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)
Maanshan Mudstone
Late Pliocene to Early Pleistocene

***Cytherelloidea prohanaii* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 101, Pl. 2, figs. 1~10, 12, 15, 18, text-fig. 4A
Holotype: LV, TNUM 10025 (Pl. 2, fig. 1), Paratypes: 5 LV, TNUM 10026~10030 (Pl. 2, figs. 3, 4, 7, 10, 18); 5 RV, TNUM 10031~10035 (Pl. 2, figs. 2, 5, 6, 9, 12); LV, TNUM 10036 (Pl. 2, fig. 8); CC, TNUM 10037 (Pl. 2, fig. 15)
An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)
Tungshiao Formation (Nanwo Member)
Pleistocene

***Cytherelloidea senkakuensis* Nohara, 1976**

Bull. Coll. Educ., Univ. Ryukyus, no. 20, pt. 2, p. 3, Pl. 1, fig. 6
Holotype: LV, RUEG 46 (Pl. 1, fig. 6)
St. 10 = Ca. 150 km N of Kuba-jima, Senkaku-retto, East China Sea (depth 100 m) (27° 25'N, 123° 46'E)

Recent

***Cytherelloidea shinzatoensis* Nohara, 1976**

Bull. Coll. Educ., Univ. Ryukyus, no. 20, pt. 2, p. 3, Pl. 1, fig. 7

Holotype: LV, RUEG 47 (Pl. 1, fig. 7)

Loc. 7571701-E = Ca. 500m SE of Shinzato, Sashiki-cho, Shimajiri-gun, Okinawa Prefecture (Type locality of Shinzato tuff) (26° 09' 40'' N, 127° 46' 36'' E)

Shinzato Formation

Pliocene

[Sample horizon = Ca. 1.2 m below the base of the tuff bed (10m thickness)]

***Cytherelloidea subambigua* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 172, 173, Pl. 4, figs. 3, 9, text-fig. 22

Holotype: RV, TNUM 7173 (Pl. 4, figs. 3, 9)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Cytherelloidea subumbonata* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 84, 85, Pl. 2, fig. 20, text-fig. 21B

Holotype: CC, TNUM 4135 (Pl. 2, fig. 20)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

[=*Cytherelloidea cinctoidea* Hu, 1979 (by Hu, 1986)]

***Cytherelloidea sulcata* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 192, 193, Pl. 2, figs. 11, 12, text-fig. 2

Holotype: CKUM 3095 (Pl. 2, fig. 11), Paratype: RV female, CKUM 3096 (Pl. 2, fig. 12); CKUM 3097~3100 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

***Cytherelloidea symmetrica* Chen, 1990**

Acta Micropalaeontologica Sinica, v. 7, no. 4, p. 381, Pl. 1, figs. 5, 6

Holotype: CC, 111225 (Pl. 1, figs. 5, 6)

Hole W6-1-1 (core) = 160 km E of Wenzhou City, SW of East China Sea (27° 50' N, 122° 50' E)

Upper Wenzhou Formation

Middle Eocene

***Cytherelloidea yakenaensis* Nohara, 1976**

Bull. Coll. Educ., Univ. Ryukyus, no. 20, pt. 2, p. 3, Pl. 1, fig. 8

Holotype: RV, RUEG 48 (Pl. 1, fig. 8)

Loc. 7571603-B = The outcrop in front of the sightseeing tower at Yakena Harbor, Yonashiro-son, Okinawa-jima, Okinawa Prefecture (26° 18' 52'' N, 127° 55' 00'' E)

Shinzato Formation

Pliocene

[Sample horizon = Ca. 50 cm below the tuff bed (30 cm thick)]

***Cytherelloidea wendongensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 163, Pl. 171, figs. 3, 4

Holotype: CC, DJ 0071 (Pl. 171, figs. 3, 4)

East China Sea

Oujiang Formation

Early Eocene

***Cytheretta ? iwasakii* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 47, 48, Pl. 11, figs. 2a~d

Holotype: LV, RUEG 124 (no figures), Paratype: LV, RUEG 125 (Pl. 11, figs. 2a~d)

St. 200 = Ca. 100 km S of Miyako-jima, East China Sea (23° 52' 02'' N, 125° 47' 00'' E) (silt, depth 1180 m)

Recent

***Cytheridea convexa* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 162, 163, Pl. 2, figs. 9, 17, text-fig. 12

Holotype: CC, TNUM 7134 (Pl. 2, figs. 9, 17), Paratype: TNUM 7135 (no figures)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Cytheridea impressa* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 158, Pl. 16, figs. 13, 14

Lectotype: LV female, HMNT 1.24.37 (Pl. 1, fig. 9 in Whatley and Zhao, 1987), Paralectotypes: CC female, HMNT 1.23.44 (Pl. 1, fig. 8 in Whatley and Zhao, 1987); RV female, HMNT 1.24.38 (Pl. 1, fig. 10 in Whatley and Zhao, 1987)

Hong Kong

[=*Sinocytheridea impressa* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Cytherois asamushiensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 90, 91, Pl. 1, fig. 6, Pl. 3, figs. 12, 15

Holotype: RV, IGPS 91575 (Pl. 1, fig. 6, Pl. 3, fig. 12), Paratype: LV, IGPS 91576 (Pl. 3, fig. 15)

St. 17 = Aomori Bay, Aomori Prefecture (40°53'39''N, 140°50'51''E) (sandy mud, depth 22 m)

Recent

***Cytherois bingoensis* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 431~433, figs. 21a~i, 23a, b

Holotype: CC female, MO 494 (figs. 21a~i, 23 a, b), Allotype: CC male with appendages, MO 393 (=NSMT-Cr 15276) (figs. 21d'), Paratypes: CC male with appendages, MO 488 (=NSMT-Cr 15277) (no figures); CC female with appendages, MO 489 (=NSMT-Cr 15278) (no figures)

St. 5 = The intertidal zone, rocky shore, near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima-shi, Mitsugi-gun, Hiroshima Prefecture (34°21.7'N, 133°13.2'E)

Recent

[=*Flabellicytherois bingoensis* (Okubo, 1980) (by Schornikov, 1993b)]

***Cytherois decorata* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 433~436, figs. 22a~j, 23c~f

Holotype: CC female with appendage, MO 771 (=NSMT-Cr 15279) (fig. 22e'), Allotype: CC male with appendages, MO 716 (=NSMT-Cr 15280) (figs. 22a~j, f'), Paratype: CC male with appendages, MO 770 (=NSMT-Cr 15281) (no figures)

St. 17 = The intertidal zone, rocky shore, Desaki-West coast, Tamano-shi, Okayama Prefecture (34°30.9'N, 133°59.8'E)

Recent

***Cytherois ezoensis* Hiruta, 1976**

Proc. Japan Soc., Syst. Zool., no. 12, p. 29~33, figs. 4-1~8, 5-1~6

Holotype: CC female with appendages, ZIHU 2148 (figs. 4-1~3), Allotype: CC male with appendages, ZIHU 2149 (figs. 4-4~8, 5-1~5), Paratypes: CC male with appendages, ZIHU 2150 (no figures); CC male with appendages, ZIHU 2151 (no figures); CC female with appendages, ZIHU 2152 (fig. 5-6)

A small inlet, Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43°13'N, 140°52'E) (on algae, *Sargassum*, depth 0~3 m)

Recent

***Cytherois ikeyai* Nakao and Tsukagoshi, 2002**

Species Diversity, v. 7, no. 1, p. 102, 103, figs. 20A~K, 21A~J

Holotype: CC male, SUM CO 1196 (fig. 20A), Paratypes:

CC male, SUM CO 1197 (fig. 20B); CC female, SUM CO 1198 (fig. 20C); CC female, SUM CO 1199 (fig. 20D); CC male, SUM CO 1200 (fig. 20E); CC female, SUM CO 1201 (fig. 20F); LV female, SUM CO 1202 (fig. 20G); RV female, SUM CO 1203 (figs. 20H, J, K); RV male, SUM CO 1204 (fig. 20I); RV male, SUM CO 1205 (fig. 21A); RV female, SUM CO 1206 (fig. 21B); male appendages, SUM CO 1207 (figs. 21C~J)

Loc. B = A small creek with associated flora of halophilous grass, at mouth of Obitsu River, Kisarazu-shi, Chiba Prefecture (35°24.6'N, 139°54.2'E) (muddy sand, depth 5 cm at lowest low tide)

Recent

***Cytherois marginalis* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 83, Pl.10, figs. 16, 22, text-fig. 15

Holotype: TNUM 8210, Paratype: TNUM 8209

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[Two figures (Pl. 10, figs. 16, 22) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8209, 8210).]

***Cytherois nakanoumiensis* Ishizaki, 1969**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 41, no. 2, p. 221, Pl. 24, figs. 7, 8, Pl. 26, figs. 3, 4

Holotype: RV, IGPS 87018 (Pl. 26, fig. 3, Pl. 24, fig. 8), Paratype: LV, IGPS 87019 (Pl. 26, fig. 4, Pl. 24, fig. 7)

St. 14 = Nakanoumi Estuary, Shimane Prefecture (35°30'57''N, 133°09'27''E) (mud, depth 6.9 m)

Recent

***Cytherois sargassicola* Hiruta, 1976**

Proc. Japan Soc., Syst. Zool., no. 12, p. 24~29, figs. 1-1~4, 2-1~5, 3-1~7

Holotype: CC female with appendages, ZIHU 2141 (figs. 1-3, 4, 2-1~4), Allotype: CC male with appendages, ZIHU 2143 (fig. 2-5, 3-5~7), Paratypes: CC male with ppendages, ZIHU 2144 (no figures); CC male with ppendages, ZIHU 2145 (no figures); CC female with ppendages, ZIHU 2146 (figs. 3-1~4); CC female with ppendages, ZIHU 2147 (figs. 1-1, 2)

A small inlet, Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43°13'N, 140°52'E) (on algae, *Sargassum*, depth 0~3 m)

Recent

[=*Violacytherois sargassicola* (Hiruta, 1976) (by Schornikov, 1993b)]

***Cytherois uranouchiensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 36,

37, Pl. 2, figs. 12, 13, Pl. 8, figs. 7, 8

Holotype: RV, IGPS 90295 (Pl. 2, fig. 12, Pl. 8, fig. 7),

Paratype: LV, IGPS 90296 (Pl. 2, fig. 13, Pl. 8, fig. 8)

St. 29 = Uranouchi Bay, Kochi Prefecture (33°25'38"N, 133°26'15"E) (sandy mud, depth 2 m)

Recent

***Cytherois violacea* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 194, 195, text-fig. 32

Holotype: CC male, FESC-434~435, Paratypes: no numbers
Cirip Peninsula, Okhotsk seashore of Iturup Island, Kuril Islands (depth 0.3~0.7 m)

Recent

[The figures (text-fig. 32) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Cytherois zosteræ* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 15~17, fig. 6

Holotype: male, FESC 488~489, Paratypes: 7 males, 52 females (no numbers)

Trotza Bay, Japan Sea (on *Zostera*, depth 2.5 m)

Recent

[The figures (fig. 6) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Cytheroma* ? *hanaii* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 404, 405, Pl. 50, figs. 5a, b, text-fig. 10, figs. 1a, b

Holotype: CC, UMUT CA 8413 (Pl. 50, figs. 5a, b, text-fig. 10, figs. 1a, b)

Loc. 33 = An exposure, 450 m S of the old Hirakawa Bridge, Nakagoyatsu, Josai, Kisarazu -shi, Chiba Prefecture (35°22'10"N, 139°57'20"E)

Narita Formation (Kami-Iwahashi Member)

Pleistocene

***Cytheromorpha acupunctata* (Brady, 1880)**

[See *Cythere acupunctata* Brady, 1880.]

***Cytheromorpha japonica* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 36, Pl. 9, figs. 11, 12

Holotype: RV, IGPS 90290 (Pl. 9, fig. 12), Paratype: LV, IGPS 90291 (Pl. 9, fig. 11) Uranouchi Bay, Kochi Prefecture

Recent

[= *Cytheromorpha acupunctata* (Brady, 1880) (by Hanai *et al.*, 1977)]

***Cytheromorpha kianotufei* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 163, 165, Pl. 11, figs. 3, 4, 8, text-fig. 5A

Holotype: RV, TNUM 11257 (Pl. 11, fig. 8), Paratypes: RV,

TNUM 11255 (Pl. 11, fig. 3); LV, TNUM 11256 (Pl. 11, fig. 4)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Cytheromorpha lagunae* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 153~155, text-fig. 9

Holotype: CC male, FESC-357~358, Paratypes: no numbers
Lake Dolgoye near Kasatka Bay, Iturup Is., Kuril Islands

[The figures (text-fig. 9) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Cytheromorpha rostrata* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 99~101, Pl. 4, figs. 17, 18, 21, 22, text-fig. 17

Holotype: CKUM 3651, Paratypes: CKUM 3650; CKUM 3652; CKUM 3652'

The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan

Toukoshan Formation

Pleistocene

[Four figures (Pl. 4, figs. 17, 18, 21 and 22) in the original description (Hu, 1977a) cannot be correlated with each type specimen (CKUM 3650~3652, 3652').]

***Cytheropteron* ? *higashikawai* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 56~58, Pl. 12, figs. 6~9; Pl. 13, fig. 16; Pl. 14, figs. 2a, b, 13

Holotype: RV, IGPS 97077 (Pl. 12, fig. 9; Pl. 13, fig. 16; Pl. 14, fig. 13), Paratypes: LV, IGPS 97078 (Pl. 12, fig. 8; Pl. 14, figs. 2a, b); LV, IGPS 97079 (Pl. 12, fig. 7); RV, IGPS 97080 (Pl. 12, fig. 6)

St. 54 = N of East China Sea (30°30.0'N, 126°30.0'E) (medium sand, depth 90 m)

Recent

***Cytheropteron* ? *kitazatoi* Ikeya and Zhou, 1992**

In Ishizaki, K. and Saito, T. (eds.), Centenary of Japanese Micro-paleontology, p. 351, 353, figs. 11-9a, 9b, 10, 11a, 11b, 12, 13. Terra Sci. Publ., Tokyo

Holotype: CC, IGSU-O-772 (figs. 11-9a, 9b, 10, 11a, 11b, 12, 13)

St. 48 = Otsuchi Bay, Iwate Prefecture (39°20.7'N, 141°57.1'E) (shelly sand, depth 41 m)

Recent

***Cytheropteron apteron* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 159, 161, Pl. 19, figs. 12, 13, 16, 18, 20~23, text-fig. 5D

Holotype: CC, TNUM 11474 (Pl. 19, fig. 13), Paratypes: RV, TNUM 11473 (Pl. 19, fig. 12); 5 CC, TNUM 11475~11479 (Pl. 19, figs. 16, 18, 20, 22, 23); RV, TNUM 11480 (Pl. 19, fig. 21)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Cytheropteron elongatum* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 167, 168, Pl. 3, figs. 17, 19, text-fig. 17

Holotype: CC, TNUM 7164 (Pl. 3, figs. 17, 19), Paratype: TNUM 7165 (no figures)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Cytheropteron furcata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 137, Pl. 3, figs. 2, 6.

Holotype: CKUM 3792 (Pl. 3, fig. 2), Paratypes: CKUM 3793 (Pl. 3, fig. 6)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Cytheropteron grossa* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 80, 81, Pl. 2, figs. 9, 11, 13, 15, text-fig. 18

Holotype: CC, TNUM 4128 (Pl. 2, figs. 9, 11), Paratypes: RV, TNUM 4129 (Pl. 2, fig. 13); LV, TNUM 4130 (Pl. 2, fig. 15)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Cytheropteron hanaii* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 55, 56, Pl. 11, figs. 11, 12; Pl. 12, figs. 1~4; Pl. 13, figs. 8, 9; Pl. 14, fig. 3

Holotype: RV, IGPS 97053 (Pl. 11, fig. 11; Pl. 12, fig. 1), Paratypes: RV, IGPS 97051 (Pl. 12, fig. 4; Pl. 13, fig. 9; Pl. 14, fig. 3); LV, IGPS 97052 (Pl. 12, fig. 3; Pl. 13, fig. 8); LV, IGPS 97054 (Pl. 11, fig. 12; Pl. 12, fig. 2)

St. 29 = S of Cheju-do (31° 13.3'N, 127° 7.2'E) (mud, depth 109 m)

Recent

***Cytheropteron kumaii* Yasuhara *et al.*, 2002**

Paleontological Research, v. 6, no. 1, p. 95, figs. 8-1~4

Holotype: LV, OCUCO 0015 (fig. 8-3), Paratypes: RV,

OCUCO 0016 (fig. 8-1); RV, OCUCO 0017 (figs. 8-2a~c); LV, OCUCO 0018 (figs. 8-4a~c)

T2-12 (core sample) = Ca. 8 km NW of Wakayama-shi, Wakayama Prefecture (34° 14.5'N, 135° 05.2'E) (depth ca. 25 m)

Holocene

[Sample horizon = Ca. 6 m below the sea floor]

***Cytheropteron microlatum* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 168, Pl. 1, fig. 5, text-fig. 18

Holotype: CC, TNUM 7192 (Pl. 1, fig. 5)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Cytheropteron miurense* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 29, 30, Pl. 4, figs. 1a, b, text-figs. 7a, b

Holotype: CC, UMUT CA 2632 (Pl. 4, figs. 1a, b, text-figs. 7a, b)

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

***Cytheropteron neoalae* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 139, 140, Pl. 17, figs. 6, 7

Holotype: CC, IGPS 85850 (Pl. 17, fig. 6), Paratype: RV, IGPS 85851 (Pl. 17, fig. 7)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatata Formation

Miocene

[=*Eucytherura neoalae* (Ishizaki, 1966) (by Hanai *et al.*, 1977)]

***Cytheropteron prorhombea* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 164, 165, Pl. 3, figs. 4~6, 15, 18, text-fig. 14

Holotype: TNUM 7154, Paratypes: TNUM 7155; TNUM 7156; TNUM 7157

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

[=*Cytheropteron miurense* Hanai, 1957 (by Hu, 1986)]

***Cytheropteron rarum* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 28, 29, Pl. 4, fig. 3

Holotype: LV, UMUT CA 2631 (Pl. 4, fig. 3)

The cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata Prefecture

Sawane Formation

Upper Pliocene

[=Junior homonym for *Cytheropteron rarum* G.W. Müller, 1894. The new name was proposed as *Cytheropteron emeritum* Hanai, 1957 (by Hanai, 1959, p. 418).]

***Cytheropteron rectocostum* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 85, 86, Pl. 5, figs. 5a, b, 6

Holotype: RV, JC-1404 (Pl. 5, figs. 5a, b), Paratype: LV, JC-1405 (Pl. 5, fig. 6)

No. 362 (GH83-2) = Hyuga-nada, ca. 33 km S off Nichinan-shi, Miyazaki Prefecture (31° 19.0'N, 131° 23.7'E) (very coarse sand, depth 135 m)

Recent

***Cytheropteron rhombea* Hu, 1976**

Proc. Geol. Soc. China, no. 19, p. 42, 43, Pl. 2, figs. 22~26, text-fig. 13

Holotype: RV, CKUM 2031 (Pl. 2, figs. 25, 26), Paratypes: juvenile, CKUM 2032 (Pl. 2, fig. 22); CKUM 2033; CKUM 2034

Loc. 8 (4.5 km NE of Erhping station) or loc. 14 (2.5 km SE of Tsaochia station) = Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Cytheropteron miurense* Hanai, 1957 (by Hu, 1986). Two figures (Pl. 2, figs. 23, 24) in the original description (Hu, 1976) cannot be correlated with each type specimen (CKUM 2033, 2034).]

***Cytheropteron sawanense* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 27, 28, Pl. 4, figs. 2a~c, text-figs. 8a, b

Holotype: RV, UMUT CA 2623 (Pl. 4, fig. 2a, text-fig. 8b), Paratypes: RV, UMUT CA 2624 (Pl. 4, fig. 2c); LV, UMUT CA 2625 (text-fig. 8a); LV, UMUT CA 2626 (Pl. 4, fig. 2b)

A cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata

Prefecture

Sawane Formation

Upper Pliocene

***Cytheropteron semicirculata* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 177, Pl. 2, figs. 22, 27, text-fig. 2

Holotype: RV, TNUM 7240 (Pl. 2, figs. 22, 27)

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

[=*Cytheropteron uchioi* Hanai, 1957 (by Hu, 1986)]

***Cytheropteron sendaiense* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 140, Pl. 17, figs. 13, 14

Holotype: CC, IGPS 85854 (Pl. 17, fig. 13), Paratype: RV, IGPS 85855 (Pl. 17, fig. 14)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Cytheropteron similis* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 80, Pl. 2, figs. 2, 5, 7, 10, text-fig. 17

Holotype: CC, TNUM 4123 (Pl. 2, figs. 2, 7), Paratypes: LV, TNUM 4124 (Pl. 2, fig. 5); RV, TNUM 4125 (Pl. 2, fig. 10)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Cytheropteron smithi* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 2, 20, 56, Pl. 4, figs. 2a~c

Holotype: LV, RUEG 143 (Pl. 4, figs. 2a~c)

Loc. 75122802-C = Ca. 1 km WNW of Asato, Gushikami-son, Shimajiri-gun, Okinawa Prefecture (26° 07'12"N, 127° 43'12"E)

Chinen Formation

Pleistocene

***Cytheropteron tsugaruense* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 100, 101, Pl. 18, figs. 1~6, Pl. 20, fig. 8, text-figs. 17-5, 6

Holotype: LV, UMUT CA 15914 (Pl. 18, figs. 2, 3, 5, text-fig. 17-5), Paratype: RV, UMUT CA 15915 (Pl. 18, figs. 1, 4, 6, Pl. 20, fig. 8, text-fig. 17-6)

Loc. O4 = A small exposure along the Otakizawa River, 3 km NW of Tsurugasaka railway station, Aomori-shi, Aomori Prefecture (40° 48'17"N, 140° 36'46"E)

Daishaka Formation

Plio-Pleistocene

***Cytheropteron tumulosum* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 166, 167, Pl. 3, figs. 8, 22, text-fig. 16

Holotype: TNUM 7160, Paratype: TNUM 7161

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Cytheropteron uchioi* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 28, Pl. 4, figs. 4a, b, text-figs. 9a, b

Holotype: RV, UMUT CA 2627 (Pl. 4, fig. 4a), Paratypes: RV, UMUT CA 2628 (text-fig. 9b); LV, UMUT CA 2629 (text-fig. 9a); LV, UMUT CA 2630 (Pl. 4, fig. 4b)

A point, W of Idenoue, Kawaminami-mura, Koyu-gun, Miyazaki Prefecture

Heki Formation (the Cucullaea zone)

Pliocene

***Cytheropteron yajimai* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 99, 100, Pl. 17, figs. 13~18, Pl. 20, fig. 7, text figs. 17-3, 4

Holotype: RV, UMUT CA 15912 (Pl. 17, figs. 13, 16, 18, text-fig. 17-4), Paratype: LV, UMUT CA 15913 (Pl. 17, figs. 14, 15, 17, Pl. 20, fig. 7, text-fig. 17-3)

Loc. N3 = An exposure along the Namioka River, 5 km NE of Namioka railway station, Namioka-machi, Minami-Tsugaru-gun, Aomori Prefecture (40°43'27"N, 140°38'29"E)

Daishaka Formation

Plio-Pleistocene

[Sample horizon = 20 cm above the top surface of DT-4 key tuff bed]

***Cytherura anacompressa* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 89~91, Pl. 5, figs. 11, 15, text-fig. 23

Holotype: TNUM 8178, Paratype: TNUM 8179a

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[Two figures (Pl. 5, figs. 11, 15) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8178, 8179a).]

***Cytherura biloba* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 94, 95, Pl. 4, figs. 13, 18, 20, 24, text-fig. 14

Holotype: RV, TNUM 7076 (Pl. 4, figs. 13, 20), Paratypes: TNUM 7077; TNUM 7078

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Two figures (Pl. 4, figs. 18, 24) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7077, 7078).]

***Cytherura compressa* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 91, 92, Pl. 1, figs. 15~17, text-fig. 10

Holotype: CKUM 3733 (Pl. 1, fig. 16), Paratypes: CKUM 3732; CKUM 3734

The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan

Toukoshan Formation

Pleistocene

[Two figures (Pl. 1, figs. 15 and 17) in the original description (Hu, 1977a) cannot be correlated with each type specimen (CKUM 3732, 3734).]

***Cytherura daishakaensis* (Tabuki, 1986)**

[See *Semicytherura ? daishakaensis* Tabuki, 1986.]

***Cytherura furuyaensis* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micro-paleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 130, 131, Pl. 1, figs. 1~8, text-fig. 5

Holotype: LV, IGPS 91729 (Pl. 1, fig. 3), Paratypes: RV, IGPS 91728 (Pl. 1, figs. 1, 2); RV, IGPS 91727 (Pl. 1, figs. 5, 7, 8, text-fig. 5); LV, IGPS 91730 (Pl. 1, figs. 4, 6)

Loc. 10 = A cliff, N of Sagara-cho, 375 m NE of Kitahara Post Office, Asahinabara, Hamaoka-cho, Ogasa-gun, Shizuoka Prefecture

Furuya Formation

Pleistocene

[Sample horizon 10A = Ca. 5 m below the top of Furuya Fm.]

***Cytherura gushikamiensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 2, 13, 15, 20, 57, 58, Pl. 7, figs. 1a, b

Holotype: RV, RUEG 148 (Pl. 7, figs. 1a, b)

Loc. 75122802-C = Ca. 1 km WNW of Asato, Gushikami-son, Shimajiri-gun, Okinawa Prefecture (26°07'12"N, 127°43'12"E)

Chinen Formation

Pleistocene

***Cytherura kianomikadoi* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 88, Pl. 9, figs. 14, 19, 20, text-fig. 21

Holotype: LV, TNUM 8063, Paratypes: CC, TNUM 8061 (Pl. 9, fig. 14); LV, TNUM 8062

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[Two figures (Pl. 9, figs. 19, 20) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8062, 8063).]

***Cytherura kianotyrantha* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 88, 89, Pl. 9, figs. 18, 21, text-fig. 22

Holotype: TNUM 8064, Paratype: TNUM 8065

The east slope of the Hengchun West Table-land, ca. 3 km W

of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

[Two figures (Pl. 9, figs. 18, 21) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8064, 8065).]

***Cytherura laciniata* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 95, 96, Pl. 4, figs. 7, 8, 10, 12, text-fig. 15

Holotype: LV, TNUM 7069 (Pl. 4, figs. 7, 8), Paratypes: TNUM 7070; TNUM 7071

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Two figures (Pl. 4, figs. 10, 12) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7070, 7071).]

***Cytherura leptocytheroidea* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 21, 22, Pl. 3, figs. 2a, b

Holotype: CC, UMUT CA 2610 (Pl. 3, fig. 2b), Paratype: RV, UMUT CA 2611 (Pl. 3, fig. 2a)

The valley of Toshibetsu-gawa, about 800 m W of Omagari, Toshibetsu-mura, Setana-gun, Hokkaido

Setana Formation

Upper Pliocene

[=*Howeina leptocytheroidea* (Hanai, 1957) (by Hanai *et al.*, 1977)]

***Cytherura minuicostata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 130, 132, Pl. 3, figs. 8, 9, 14, text-fig. 3

Holotype: RV, CKUM 3788 (Pl. 3, figs. 9, 14), Paratypes: CKUM 3787 (Pl. 3, fig. 8); CKUM 3789~3791 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Cytherura miurensis* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 18, 19, Pl. 2, figs. 4a~d, text-figs. 4a, b

Holotype: CC, UMUT CA 2600 (Pl. 2, figs. 4a, b, text-figs. 4a, b), Paratype: CC, UMUT CA 2601 (Pl. 2, figs. c, d)

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Semicytherura* ? *miurensis* (Hanai, 1957) (by Hanai *et al.*, 1977)]

***Cytherura neoleptocytheroidea* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 138, Pl. 17, figs. 19, 20

Holotype: RV, IGPS 85858 (Pl. 17, fig. 19), Paratype: LV, IGPS 85859 (Pl. 17, fig. 20)

Goroku, in the western border of Sendai-shi, Miyagi Prefecture

Tatsunokuchi Formation (upper horizon)

Pliocene

[=*Howeina neoleptocytheroidea* (Ishizaki, 1966) (by Hanai *et al.*, 1977)]

***Cytherura neosubundata* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 138, 139, Pl. 17, fig. 21, text-fig. 1, fig. 2

Holotype: RV, IGPS 85861 (Pl. 17, fig. 21, text-fig. 1, fig. 2) Goroku, in the western border of Sendai-shi, Miyagi Prefecture

Tatsunokuchi Formation (upper horizon)

Pliocene

[=*Semicytherura neosubundata* (Ishizaki, 1966) (by Hanai *et al.*, 1977)]

***Cytherura quadrata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 20, Pl. 3, figs. 1a, b, text-figs. 2a, b

Holotype: CC, UMUT CA 2603 (Pl. 3, figs. 1a, b, text-figs. 2a, b), Paratypes: CC, UMUT CA 2604; CC, UMUT CA 2605

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[= Junior homonym of *Cytherura quadrata* Norman, 1869. The new specific trivial name was proposed as *Semicytherura henryhowei* Hanai and Ikeya (by Hanai *et al.*, 1977).]

***Cytherura skippa* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 19, 20, Pl. 2, figs. 6a, b

Holotype: CC, UMUT CA 2602 (Pl. 2, figs. 6a, b)

Toura, Hamazaki-mura, Kamo-gun, Shizuoka Prefecture (beach sand)

Recent

[=*Semicytherura skippa* (Hanai, 1957) (by Hanai *et al.*, 1977)]

***Cytherura subundata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 20, 21, Pl. 3, figs. 3a~d, text-figs. 3a, b

Holotype: RV, UMUT CA 2606 (Pl. 3, fig. 3a), Paratypes: LV, UMUT CA 2607 (Pl. 3, fig. 3d, text-fig. 3a); RV, UMUT CA 2608 (Pl. 3, fig. 3c, text-fig. 3b); LV, UMUT CA 2609 (Pl. 3, fig. 3b)

The cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata Prefecture
Sawane Formation
Upper Pliocene
[=*Semicytherura subundata* (Hanai, 1957) (by Hanai *et al.*, 1977)]

***Cytherura tetragona* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 18, Pl. 2, figs. 5a~d
Holotype: CC, UMUT CA 2598 (Pl. 2, figs. 5c,d), Paratype: CC, UMUT CA 2599 (Pl. 2, figs. 5a, b)
The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)
Recent
[=*Semicytherura tetragona* (Hanai, 1957) (by Hanai *et al.*, 1977)]

***Daishakacythere* Irizuki, 1993**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 170, p. 202, 204
Type species: *Urocythereis* ? *abei* Tabuki, 1986

***Danipussella rhamphodes* Hiruta, 1994**

Proc. Biol. Soc. Washington, v. 107, no. 4, p. 657~661, figs. 1-1~15, 2-1~7
Holotype: CC male with appendages, NSMT Cr 11412 (figs. 1-1~15, 2-1~7)
The intertidal zone of Suva Barrier Reef, Suva, Viti Levu, Fiji (18° 09'S, 178° 26'E) (coarse sand)
Recent

***Dolerocypris mukaishimensis* Okubo, 1980**

Proc. Japan. Soc. Syst. Zool., no. 18, p. 20~22, text-figs. 2a~j, Pl. 1, figs. g, h
Holotype: CC female with appendages, MO 499 (=NSMT-Cr 15282) (text-figs. 2a~j, Pl. 1, figs. g, h)
The intertidal zone, near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima, Mitsugi-gun, Hiroshima Prefecture (34° 21.7'N, 133° 13.2'E) (muddy sand)
Recent

***Dolerocypris fasciata nipponensis* Okubo, 1972**

Res. Bull. Okayama Shujitsu Jr. Coll., no. 1, p. 43~49, Pl. 1, figs. A~C, F~N, Pl. 2, figs. C~W, Pl. 3, figs. a~g
Holotype: CC female, BLOSJC-1 (Pl. 1, figs. A, B, Pl. 2, figs. C, E, G), Paratypes: CC female, BLOSJC-2 (Pl. 1, figs. G, H, Pl. 2, figs. D, F); CC female, BLOSJC-3 (Pl. 1, figs. I, J, Pl. 2, fig. H); appendage female, BLOSJC-4 (Pl. 2, fig. I) (the specimen missing); CC female, BLOSJC-5 (Pl. 1, fig. C); CC juvenile female (A-1 stage), BLOSJC-6 (Pl. 1, figs. M, N) (the specimen missing); CC juvenile female (A-2 stage), BLOSJC-7 (Pl. 1, figs. K, L) (the specimen missing); CC juvenile female (A-2 stage), BLOSJC-8 (no figures) (the

specimen missing)

A paddy field, Shimo-kojiro, Shingo-cho, Okayama Prefecture (34° 59.5'N, 133° 24.6'E)

Recent

[=*Dolerocypris fasciata* (Müller, 1776) (by Meisch, 2000)]

***Echinocythereis bradyformis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 40, Pl. 8, fig. 4
Holotype: LV, IGPS 90311 (Pl. 8, fig. 4)
St. 78 = Uranouchi Bay, Kochi Prefecture (33° 26'16"N, 133° 24'54"E) (fine sand, depth 11 m)
Recent
[=*Pistocythereis bradyformis* (Ishizaki, 1968) (by Gou *et al.*, 1983)]

***Echinocythereis bradyi* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 40, Pl. 9, fig. 17
Holotype: LV, IGPS 90312 (Pl. 9, fig. 17)
St. 78 = Uranouchi Bay, Kochi Prefecture (33° 26'16"N, 133° 24'54"E) (fine sand, depth 11 m)
Recent
[=*Pistocythereis bradyi* (Ishizaki, 1968) (by Gou *et al.*, 1983)]

***Echinocythereis cathayensis* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 129, 131, Pl. 4, figs. 19, 25, text-fig. 6A
Holotype: CC, TNUM 10103 (Pl. 4, fig. 19), Paratype: CC, TNUM 10104 (Pl. 4, fig. 25)
An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)
Tungshiao Formation (Nanwo Member)
Pleistocene

***Echinocythereis formosana* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 104, Pl. 1, figs. 18, 21, Pl. 2, fig. 5
Holotype: CKUM 1038 (Pl. 2, fig. 5), Paratypes: CC, CKUM 1039 (Pl. 1, figs. 18, 21); CKUM 1040 (no figures)
Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan
Chinshui Shale
Pliocene
[In the explanation of Pl. 1, figs. 18 and 21, a word of holotype should be replaced with paratype.]

***Ectodemites globosa* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 150, 151, Pl. 18, figs. 1a, b, 2
Holotype: RV, IGPS 85793 (Pl. 18, figs. 1a, b), Paratype: RV, IGPS 85794 (Pl. 18, fig. 2)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture
Iwaizaki Limestone (Unit G, black limestone)
Permian

***Elofsonella kianukuei* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 189~191, Pl. 3, figs. 10, 12, text-fig. 12
Holotype: LV, TNUM 7256 (Pl. 3, figs. 10, 12)
An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan
Hengchun Limestone
Pleistocene

***Eucypris manchurica* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 417, 418, Pl. 1, figs. 1, 2
Holotype: RV, UMUT MA 8507 (Pl. 1, figs. 1, 2)
Tiehli-pu, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (Bore-core, depth 84.9~91.6 m)
Nengkiang Formation
Cretaceous

***Eucythere yugao* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 187, 188, Pl. 10, figs. 13, 14, 16-19, text-figs. 13-9, 10
Holotype: LV, UMUT CA 9815 (Pl. 10, figs. 14, 16, 19, text-fig. 13-9), Paratype: RV, UMUT CA 9816 (Pl. 10, figs. 13, 17, 18, text-fig. 13-10)
Loc. 189 = An exposure, 3.5 km SSE of Kobayashi railway station, Imba-mura, Imba-gun, Chiba Prefecture (35° 47'52"N, 140° 12'38"E)
Kioroshi Formation (Kioroshi Member)
Pleistocene

***Eucytherura tropis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, Chinese Academy of Geological Sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 144, 145, Pl. 164, figs. 9, 10
Holotype: CC, DJ 0010 (Pl. 164, figs. 9, 10), Paratype: CC, DJ 0060 (no figure)
East China Sea
Oujiang Formation
Early Eocene

***Eucytheridea sinobesani* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 76, 77, Pl. 10, figs. 27, 28, text-fig. 8
Holotype: LV, TNUM 8217 (Pl. 10, figs. 27, 28)
The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N,

120° 44.1'E)
Ssukou Formation
Pleistocene
[=*Sinocytheridea impressa* (Brady, 1869) (by Whatley and Zhao, 1987)]

***Eucytherura maculata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 132, 133, Pl. 4, figs. 9, 13, text-fig. 4
Holotype: RV, CKUM 3873 (Pl. 4, figs. 9, 13)
An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan
Toukoshan Formation
Pleistocene

***Eucytherura nanwanica* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 96, Pl. 2, figs. 3, 4, text-fig. 16
Holotype: RV, TNUM 7020 (Pl. 2, figs. 3, 4)
Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)
Maanshan Mudstone
Late Pliocene to Early Pleistocene

***Eucytherura neolae* (Ishizaki, 1966)**

[See *Cytheropteron neolae* Ishizaki, 1966.]

***Eucytherura shinzatoensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 13, 58, Pl. 7, figs. 2a~c
Holotype: RV, RUEG 149 (Pl. 7, figs. 2a~c)
Loc. 76121501A = Ca. 500 m SE of Shinzato, Sashiki-cho, Shimajiri-gun, Okinawa Prefecture (Type locality of Shinzato Formation) (26° 9'40"N, 127° 46'36"E)
Shinzato Formation
Pliocene
[Sample horizon = Ca. 5 m above the base of the upper most carbonized woods bed (bluish gray silt).]

***Eucytherura utsusemi* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 217, 218, Pl. 14, figs. 12, 13, 15, 16
Holotype: RV, UMUT CA 9879 (Pl. 14, figs. 12, 15), Paratypes: LV, UMUT CA 9880 (Pl. 14, fig. 16); CC, UMUT CA 9881 (Pl. 14, fig. 13)
Loc. 120 = A cliff, along the Murata River, 2.4 km SE of Honda railway station, Ochi-shimoshinden, Ichihara-shi, Chiba Prefecture (35° 31'30"N, 140° 13'48"E)
Yabu Formation (Yabu Member)
Pleistocene

***Eukrithe* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 2~4
Type species: *Eukrithe zhirmunskyi* Schornikov, 1975

***Eukrithe zhirmunskyi* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 4, fig. 1

Holotype: CC female with appendages, FESC 192~493 (fig. 1), Paratypes: 1 juvenile (A-5 stage), 5 juveniles (A-4-1 stages) (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[=*Parakrithella pseudadonta* (Hanai, 1959) (by Hanai *et al.*, 1977)]

***Euphilomedes japonica* (G.W. Müller, 1890)**

[See *Philomedes japonica* G.W. Müller, 1890.]

***Euphilomedes nipponica* Hiruta, 1976**

Jour. Fac. Sci., Hokkaido Univ., Ser.6 (Zool.), v. 20, no. 3, p. 580~589, figs. 12~23, figs. 1-1~6, 2-1~3, 3-1~9, 4-1~5, 5-1~6, 6-1~8

Holotype: CC female with appendages, ZIHU 2159 (figs. 1-1~6, 2-1,3, 3-1~6, 8,9), Allotype: CC male with appendages, ZIHU 2160 (figs. 4-1~5, 5-1~6, 6-1~6,8), Paratypes: CC male with appendages, ZIHU 2161 (fig. 6-7); CC male with appendages, ZIHU 2162 (no figures); CC male with appendages, ZIHU 2163 (no figures); CC female with appendages, ZIHU 2164 (figs. 2-2, 3-7); CC female with appendages, ZIHU 2165 (no figures); CC female with appendages, ZIHU 2166 (no figures)

A small inlet, Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (sandy mud, depth 0~4 m)

Recent

***Euphilomedes sordida* (G.W. Müller, 1890)**

[See *Philomedes sordida* G.W. Müller, 1890.]

***Falsobuntonia* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 391, 392

Type species: *Falsobuntonia taiwanica* Malz, 1982

***Falsobuntonia hayamii* (Tabuki, 1986)**

[See *Buntonia hayamii* Tabuki, 1986.]

***Falsobuntonia taiwanica* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 392, 393, Pl. 8, figs. 51~56, table 2

Holotype: LV female, SMF Xe 12348 (Pl. 8, fig. 54), Paratypes: RV female, SMF Xe 12349a (Pl. 8, figs. 51a~c); LV male, SMF Xe 12349b (Pl. 8, figs. 53a~c); LV male, SMF Xe 12350a (Pl. 8, fig. 52); RV female, SMF Xe 12350b (Pl. 8, fig. 55); CC female, SMF Xe 12351 (Pl. 8, fig. 56); SMF Xe 12352~12355 (no figures)

Toukou, near Tsailuhsian, SW Taiwan

Szekou Formation

Pleistocene

***Finmarchinella daishakaensis* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 80~82, Pl. 5, figs. 1~9, text-figs. 16-5, 6

Holotype: LV female, UMUT CA 15837 (Pl. 5, fig. 2), Paratypes: RV female, UMUT CA 15838 (Pl. 5, fig. 1); RV female, UMUT CA 15839 (Pl. 5, fig. 8, text-fig. 16-6); LV female, UMUT CA 15840 (Pl. 5, fig. 7); LV female, UMUT CA 15841 (Text-fig. 16-5); CC female, UMUT CA 15842 (Pl. 5, fig. 9); RV male, UMUT CA 15843 (Pl. 5, fig. 3); LV male, UMUT CA 15844 (Pl. 5, fig. 4); RV immature form, UMUT CA 15845 (Pl. 5, fig. 5); LV immature form, UMUT CA 15846 (Pl. 5, fig. 6)

Loc. K1 = A small exposure along the Kujirasawa River, 2 km N of eastern entrance of Shin-Daishaka tunnel, Aomori-shi, Aomori Prefecture (40° 47'23''N, 140° 36'44''E)

Daishaka Formation

Plio-Pleistocene

***Finmarchinella hanaii* Okada, 1979**

Trans. Proc. Palaeont. Soc. Japan, N. S., no. 115, p. 166~168, Pl. 22, figs. 1~13

Holotype: LV female, UMUT CA 9614 (Pl. 22, fig. 2), Paratypes: RV female, UMUT CA 9615 (Pl. 22, fig. 1); RV male, UMUT CA 9616 (Pl. 22, fig. 3); LV male, UMUT CA 9617 (Pl. 22, fig. 4); RV immature form, UMUT CA 9618 (Pl. 22, fig. 5); LV immature form, UMUT CA 9619 (Pl. 22, fig. 6); RV male, UMUT CA 9620 (Pl. 22, fig. 7); RV female, UMUT CA 9621 (Pl. 22, fig. 8); RV immature form, UMUT CA 9622 (Pl. 22, fig. 9); CC male, UMUT CA 9623 (Pl. 22, fig. 10); CC male, UMUT CA 9624 (Pl. 22, fig. 11); CC immature form, UMUT CA 9625 (Pl. 22, fig. 12); LV female, UMUT CA 9626 (Pl. 22, fig. 13)

Loc. S45 = A cliff along the coast 800 m SW of Anden, Oga Peninsula, Akita Prefecture (Type locality of Shibikawa Formation) (39° 55'01''N, 139° 50'02''E)

Shibikawa Formation

Pleistocene

[Sample horizon = Ca. 96 m above the base of Shibikawa Fm.]

***Finmarchinella japonica* (Ishizaki, 1966)**

[See *Nereina japonica* Ishizaki, 1966.]

***Finmarchinella nealei* Okada, 1979**

Trans. Proc. Palaeont. Soc. Japan, N. S., no. 115, p. 168~197, Pl. 23, figs. 1~5

Holotype: LV female, UMUT CA 9627 (Pl. 23, fig. 1), Paratypes: RV female, UMUT CA 9628 (Pl. 23, fig. 2); LV male, UMUT CA 9629 (Pl. 23, fig. 3); RV male, UMUT CA 9630 (Pl. 23, fig. 4); LV female, UMUT CA 9631 (Pl. 23, fig. 5)

Loc. S24 = A cliff along the coast 600 m SW of Anden, Oga Peninsula, Akita Prefecture (Type locality of Shibikawa Formation) (39° 55.0'N, 139° 50.0'E)
Shibikawa Formation
Pleistocene
[Sample horizon = Ca. 56 m above the base of Shibikawa Formation]

***Finmarchinella rectangulata* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 78–80, Pl. 4, figs. 3–15, text-figs. 16–3, 4
Holotype: LV female, UMUT CA 15825 (Pl. 4, fig. 4), Paratypes: RV female, UMUT CA 15826 (Pl. 4, fig. 3); RV female, UMUT CA 15827 (Pl. 4, fig. 10); RV female, UMUT CA 15828 (Pl. 4, fig. 13, text-fig. 16–4); RV female, UMUT CA 15829 (Pl. 4, figs. 14, 15); LV female, UMUT CA 15830 (Pl. 4, fig. 9); LV female, UMUT CA 15831 (Pl. 4, fig. 11); LV female, UMUT CA 15832 (Pl. 4, fig. 12, text-fig. 16–3); RV male, UMUT CA 15833 (Pl. 4, fig. 5); LV male, UMUT CA 15834 (Pl. 4, fig. 6); RV immature form, UMUT CA 15835 (Pl. 4, fig. 7); LV immature form, UMUT CA 15836 (Pl. 4, fig. 8)
Loc. O4 = A small exposure along the Otakizawa River, 3 km NW of Tsurugasaka railway station, Aomori-shi, Aomori Prefecture (40° 48' 17''N, 140° 36' 46''E)
Daishaka Formation
Plio-Pleistocene

***Finmarchinella subrectangulata* Irizuki, 1993**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 170, p. 206–208, figs. 2–11, 13–1~4c
Holotype: LV female, IGPS 101739 (figs. 13–2a, b), Paratypes: LV male, IGPS 101738 (fig. 13–1); RV female, IGPS 101741 (figs. 13–4a–c); RV male, IGPS 101740 (figs. 2–11, 13–3)
Locality 523–6, Oga-city, Akita Prefecture (39° 58' 07''N, 139° 50' 58''E)
Shibikawa Formation
Middle Pleistocene

***Finmarchinella uranipponica* Ishizaki, 1969**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 41, no. 2, p. 217, 218, Pl. 26, figs. 12, 13, Pl. 24, fig. 4
Holotype: LV, IGPS 87044 (Pl. 26, fig. 13, Pl. 25, fig. 4), Paratype: RV, IGPS 87050 (Pl. 26, fig. 12)
St. 12 = Nakanoumi Estuary, Shimane Prefecture (35° 31' 12''N, 133° 11' 22''E) (muddy sand, depth 6.3 m)
Recent

***Flabellicytherois bingoensis* (Okubo, 1980)**

[See *Cytherois bingoensis* Okubo, 1980.]

***Galapagocythere cathayense* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 92, Pl. 9, figs. 2, 3, 6,

text-fig. 25

Holotype: LV, TNUM 8048 (Pl. 9, figs. 3, 6), Paratype: LV, TNUM 8047 (Pl. 9, fig. 2)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

***Glyptopleurina tomokoeae* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 34, 35, Pl. 1, figs. 6a, b, text-fig. 2

Holotype: RV, IGPS 78393 (Pl. 1, fig. 6a, text-fig. 2),

Paratype: LV, IGPS 78403 (Pl. 1, fig. 6b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Glyptopleurina tumida* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 35, 36, Pl. 1, figs. 7a, b, text-fig. 3

Holotype: RV, IGPS 78394 (Pl. 1, fig. 7a, text-fig. 3),

Paratype: RV, IGPS 78396 (Pl. 1, fig. 7b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Gomphocythere ? tiehlensis* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 427, 428, Pl. 1, fig. 3

Holotype: LV, UMUT MA 8520 (Pl. 1, fig. 3)

Tiehlipu, E of Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (Bore-core, depth 84.9–91.6 m)

Nengkiang Formation

Cretaceous

***Hanaiborchella* (subgen.) Gruendel, 1976**

Zeitschrift fuer Geologische Wissenschaften, Berlin, v. 4, no. 9, p. 1295

Type species: *Paijenborchella triangularis* Hanai, 1970

***Hanaiborchella miurensis* (Hanai, 1970)**

[See *Paijenborchella miurensis* Hanai, 1970.]

***Hanaiborchella spinosa* (Hanai, 1970)**

[See *Paijenborchella spinosa* Hanai, 1970.]

***Hanaiborchella triangularis* (Hanai, 1970)**

[See *Paijenborchella triangularis* Hanai, 1970.]

***Hanaicythere nipponica* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 74, figs. 10–1, 12–1a, b, 4a, b

Holotype: RV, UMUT CA 18011 (figs. 10–1, 12–4a, b),

Paratype: LV, UMUT CA 18012 (figs. 12-1a, b)
 Loc. 1108 = An outcrop of Takamatsu, Atsumi-gun, Aichi
 Prefecture (34°37'30"N, 137°15'38"E)
 Tahara Formation (Toshima Sand Member)
 Pleistocene
 [Sample horizon 1108 = Ca. 1.5 m above the base of Tonna
 Bed]

Hanaicythere Yajima, 1987

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 72, 74
 Type species: *Hanaicythere nipponica* Yajima, 1987

Hataiella Ishizaki, 1967

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 58, 59
 Type species: *Hataiella ohazamensis* Ishizaki, 1967
 [=Junior homonym of the subgenus *Hataiella* Kotaka, 1959
 of gastropod genus *Turritella*. The new name *Khataiella* was
 proposed by Ishizaki, 1973, p. 405.]

Hataiella longa Ishizaki, 1967

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 60, Pl.
 2, figs. 11, 12
 Holotype: LV, IGPS 87082 (Pl. 2, fig. 11), Paratype: LV,
 IGPS 87083 (Pl. 2, fig. 12)
 1,200 m N of Hinomata, a tributary of the Hinomata River,
 Ohazama-machi, Hinuki-gun, Iwate Prefecture
 Tassobe Formation
 Lower Permian
 [=*Khataiella longa* (Ishizaki, 1967) (by Ishizaki, 1973)]

Hataiella minima Ishizaki, 1967

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 60, 61,
 Pl. 2, figs. 4~6
 Holotype: LV, IGPS 87084 (Pl. 2, fig. 4), Paratypes: LV,
 IGPS 87085 (Pl. 2, fig. 5); LV, IGPS 87086 (Pl. 2, fig. 6)
 1,200 m N of Hinomata, a tributary of the Hinomata River,
 Ohazama-machi, Hinuki-gun, Iwate Prefecture
 Tassobe Formation
 Lower Permian
 [=*Khataiella minima* (Ishizaki, 1967) (by Ishizaki, 1973)]

Hataiella ohazamensis Ishizaki, 1967

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 59, 60,
 Pl. 2, figs. 9, 10
 Holotype: RV, IGPS 87080 (Pl. 2, fig. 9), Paratype: RV, IGPS
 87081 (Pl. 2, fig. 10)
 1,200 m N of Hinomata, a tributary of the Hinomata River,
 Ohazama-machi, Hinuki-gun, Iwate Prefecture
 Tassobe Formation
 Lower Permian
 [=*Khataiella ohazamensis* (Ishizaki, 1967) (by Ishizaki,
 1973)]

Hemicypris kibiensis Okubo, 1990

Res. Crustacea, no. 19, p. 9, figs. 3 D~F
 Holotype: CC female with appendages, FO 172 (figs. 3D~F),
 Paratypes: 2 CC females, FO 170, 171, CC female, FO 646
 (no figures)
 A paddy fields of Ashimori, Shimotsuchida, Okayama-shi,
 Okayama Prefecture (34°41.8'N, 133°48.2'E)
 Recent

Hemicypris mizunoi Okubo, 1990

Res. Crustacea, no. 19, p. 7~9, figs. 3 A~C
 Holotype: CC female with appendages, FO 183 (figs. 3A~C),
 Paratypes: CC females, FO 181(no figures); CC females,
 FO182(no figures); CC females, FO 186 (no figures)
 A paddy fields of Ashimori, Shimotsuchida, Okayama-shi,
 Okayama Prefecture (34°41.8'N, 133°48.2'E)
 Recent

Hemicypris nipponica Okubo, 1990

Res. Crustacea, no. 19, p. 10, figs. 3 G~I
 Holotype: CC female, FO 153 (no figures), Paratypes: CC
 female with appendages, FO 552 (figs. 3G~I); 2 CC females,
 FO 553 (no figures), 611 (no figures)
 A paddy field, Shiono, Seto-cho, Okayama Prefecture (34°
 45.7'N, 134°03.3'E)
 Recent
 [Paratype specimen is figured as figs. 3G~I (FO 552), but the
 figures of holotype (FO 153) specimen is not shown.]

Hemicypris vulgaris Okubo, 1990

Res. Crustacea, no. 19, p. 10, 11, figs. 3 J~L
 Holotype: CC female with appendages, FO 163 (figs. 3J~L),
 Paratypes: 4 CC females, FO 160 (no figures), 161 (no
 figures) (the specimen missing), 610 (no figures), 638 (no
 figures)
 A paddy field, Shiono, Seto-cho, Okayama Prefecture (34°
 45.7'N, 134°03.3'E)
 Recent

Hemicythere auriloforme Hu, 1984

Jour. Taiwan Mus. v. 37, no. 1, p. 91, 92, Pl. 1, figs. 16, 18,
 19, 22, text-fig. 24
 Holotype: LV, TNUM 8093 (Pl. 1, figs. 16, 18), Paratype: RV,
 TNUM 8094 (Pl. 1, figs. 19, 22)
 The east slope of the Hengchun West Table-land, ca. 3 km W
 of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N,
 120°44.1'E)
 Ssukou Formation
 Pleistocene

Hemicythere gorokuensis Ishizaki, 1966

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 141,
 142, Pl. 17, figs. 22, 23
 Holotype: RV, IGPS 85862 (Pl. 17, fig. 22), Paratype: RV,

IGPS 85863 (Pl. 17, fig. 23)

Goroku, in the western border of Sedai-shi, Miyagi Prefecture

Tatsunokuchi Formation (upper horizon)

Pliocene

***Hemicythere gurjanovae* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 179, 180, Pl. 3, fig. 4, text-fig. 23

Holotype: CC male, FESC-474~475, Paratypes: no numbers Tryekhpaliy Peninsula, Pacific seashore of Iturup Is., Kuril Islands (depth 40 m)

Recent

[The figures (Pl. 3, fig. 4, text-fig. 23) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Hemicythere? miii* (Ishizaki, 1969)**

[See *Urocythereis miii* Ishizaki, 1969.]

***Hemicythere? kitanipponica* (Tabuki, 1986)**

[See *Ambostracon kitanipponica* Tabuki, 1986.]

***Hemicythere kussakini* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 162~164, text-fig. 14

Holotype: CC male, FESC-462~463

Sublittoral zone of rocky shore, Urup Is., Kuril Islands (on algae)

Recent

[The figures (text-fig. 14) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Hemicythere nana* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 164~166, text-fig. 15

Holotype: CC male, FESC-464~465

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk Sea shore of Iturup Is., Kuril Islands

Recent

[The figures (text-fig. 15) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Hemicythere ochotensis* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 177~179, Pl. 4, figs. 2a~d, text-fig. 22

Holotype: CC male, FESC-472~473, Paratypes: no numbers Sublittoral zone of Konsyervnaya Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (Pl. 4, figs. 2a~d, text-fig. 22) in the original description (Schornikov, 1974) cannot be correlated with

each type specimen.]

***Hemicythere orientalis* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 166~168, Pl. 3, figs. 1a~f, text-fig. 16

Holotype: CC male, FESC-466~467, Paratypes: no numbers Tryekhpaliy Peninsula, Pacific seashore of Iturup Is., Kuril Islands (depth 40~41 m)

Recent

[The figures (Pl. 3, figs. 1a~f, text-fig. 16) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Hemicythere posterovestibulata* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 169~171, Pl. 3, figs. 3a, b, text-fig. 18

Holotype: CC male, FESC-468~469, Paratype: no numbers The littoral zone of rocky shore, Cirip Peninsula, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (Pl. 3, figs. 3a, b, text-fig. 18) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Hemicythere quadrinodosa* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 175~177, Pl. 4, figs. 3a~d, text-fig. 21

Holotype: CC male, FESC-470~471, Paratypes: no numbers Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (Pl. 4, figs. 3a~d, text-fig. 21) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Hemicytheridea crispata* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 203, 204, figs. 24-13, 14, 21, text-fig. 21

Holotype: CKUM 3517 (fig. 24-13), Paratypes: CKUM 3518 (fig. 25-21); CKUM 3519, 3520 (no figures)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pliocene

***Hemicytheridea oculosa* Hu and Yeh, 1978**

Proc. Geol. Soc. China, no. 21, p. 159, Pl. 3, figs. 17~22, text-fig. 6

Holotype: CC female, CKUM 3910 (Pl. 3, fig. 21), Paratypes: CC male, CKUM 3911 (Pl. 3, fig. 22); CKUM 3912~3915; CKUM 3916, 3917 (no figures)

0.5 km S of the Liushuang village, Kuantien-hisang, Tainan-hsien, Tainan District, Taiwan

Liushuang Formation

Pleistocene

[Four figures (Pl. 3, figs. 17~20) in the original description (Hu and Yeh, 1978) cannot be correlated with each type specimen (CKUM 3912~3915).]

***Hemicytheridea zonata* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 107, 108, Pl. 2, figs. 2, 16
Holotype: CKUM 1013 (Pl. 2, fig. 16), Paratypes: CKUM 1014 (Pl. 2, fig. 2); CKUM 1015; CKUM 1016 (no figures)
Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan
Chinshui Shale
Pliocene

***Hemicytherura anapta* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 153, 155, Pl. 25, figs. 4, 9, 10, 13~18, 22, 26, 28~30
Holotype: CC, TNUM 11575 (Pl. 25, fig. 28), Paratypes: 4 CC, TNUM 11562~11565 (Pl. 25, figs. 4, 9, 10, 22); 2 LV and 6 RV, TNUM 11566~11573 (Pl. 25, figs. 13~18, 29, 30); LV, TNUM 11574 (Pl. 25, fig. 26)
An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)
Tungshiao Formation (Nanwo Member)
Pleistocene

***Hemicytherura apta* Hu, 1976**

Proc. Geol. Soc. China, no. 19, p. 30, 31, Pl. 3, figs. 11, 15, 19, text-fig. 4
Holotype: RV, CKUM 2003 (Pl. 3, figs. 11, 15), Paratype: CKUM 2004 (Pl. 3, fig. 19)
Loc. 13 (2.5 km SE of Tsaochia station) or loc. 15 (1 km SE of Tsaochia station) = Chinshui county, ca. 8 km NE of Miaoli city, Taiwan
Cholan Formation
Upper Pliocene

***Hemicytherura cuneata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 24, 25, Pl. 2, figs. 2a, b, text-figs. 1a, b
Holotype: CC, UMUT CA 2619 (Pl. 2, fig. 2a, text-figs. 1a, b), Paratype: CC, UMUT CA 2620 (Pl. 2, fig. 2b)
The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)
Recent

***Hemicytherura kajiyamai* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 24, Pl. 2, figs. 1a~d
Holotype: CC, UMUT CA 2616 (Pl. 2, fig. 1a), Paratypes: CC, UMUT CA 2617 (Pl. 2, figs. 1b, c); RV, UMUT CA 2618 (Pl. 2, fig. 1d)
The shore behind an Imperial villa, Hayama-cho, Kanagawa

Prefecture (beach sand)

Recent

[CA 2618 specimen is occurred from the Miocene Shukunohora sandstone, the valley, E of Suganuma, Hiyoshi-mura, Togi-gun, Gifu Prefecture.]

***Hemicytherura lingua* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 91, 92, Pl. 4, figs. 4, 6, text-fig. 11
Holotype: TNUM 7067, Paratype: TNUM 7068
Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)
Maanshan Mudstone
Late Pliocene to Early Pleistocene
[Two figures (Pl. 4, figs. 4, 6) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7067, 7068).]

***Hemicytherura rhombea* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 93, 94, Pl. 4, figs. 1, 2, 9, 14, text-fig. 13
Holotype: LV, TNUM 7062 (Pl. 4, figs. 1, 2), Paratypes: TNUM 7063; TNUM 7064
Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)
Maanshan Mudstone
Late Pliocene to Early Pleistocene
[Two figures (Pl. 4, figs. 9, 14) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7063, 7064).]

***Hemicytherura tricarinata* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 25, 26, Pl. 2, figs. 3a, b
Holotype: CC, UMUT CA 2621 (Pl. 2, fig. 3a), Paratype: CC, UMUT CA 2622 (Pl. 2, fig. 3b)
The shore about 1 km NE of Akase railroad station, near Hiraiwa, Auda-mura, Uto-gun, Kumamoto Prefecture (beach sand)
Recent

***Hemicytherura trinerva* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 188, 189, figs. 26-2, 12, text-fig. 7
Holotype: CKUM 3600, Paratypes: CKUM 3601 (no figures); CKUM 3602
An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan
Toukoshan Formation
Pleistocene
[Two figures (figs. 26-2, 12) in the original description (Hu, 1977b) cannot be correlated with each type specimen

(CKUM 3600, 3602).]

***Hemikrithe hengchunese* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 105, 106, Pl. 10, fig. 25, text-fig. 38

Holotype: LV, TNUM 8216 (Pl. 10, fig. 25)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Henryhowella flora* Hu and Yeh, 1978**

Proc. Geol. Soc. China, no. 21, p. 156, Pl. 1, figs. 19, 20, text-fig. 4

Holotype: RV, CKUM 3956 (Pl. 1, figs. 19, 20), Paratypes: CKUM 3957 (no figures)

0.5 km S of the Liushuang village, Kuantien-hisang, Tainan-hsien, Tainan District, Taiwan

Liushuang Formation

Pleistocene

***Henryhowella spinosa* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 34–36, Pl. 2, figs. 8, 9, 13, 14, 16, text-fig. 8

Holotype: RV, CKUM 2016 (Pl. 2, figs. 9, 13), Paratypes: CKUM 2014 (Pl. 2, fig. 8); CC, CKUM 2015 (Pl. 2, figs. 14, 16)

Loc. 13 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Nodosocosta spinosa* (Hu, 1976) (by Hu, 1986) = *Actinocythereis spinosa* (Hu, 1976) (by Hanai et al., 1980)]

***Hermanites* ? *japonicus* (Ishizaki, 1971)**

[See *Caudites japonicus* Ishizaki, 1971.]

***Hermanites* ? *posterocostatus* Ishizaki, 1966**

[See *Hermanites posterocostata* Ishizaki, 1966.]

***Hermanites moniwiensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 158, 159, Pl. 18, figs. 1–3

Holotype: CC, IGPS 85868 (Pl. 18, fig. 3), Paratypes: RV, IGPS 85866 (Pl. 18, fig. 1); LV immature form, IGPS 85867 (Pl. 18, fig. 2)

Kitaakaishi area, in the western border of Sendai-shi, Miyagi Prefecture

Moniwa Formation

Miocene

[=*Cornucoquimba moniwiensis* (Ishizaki, 1966) (by Hanai et al., 1977)]

***Hermanites posterocostata* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 159, Pl. 18, figs. 4–6

Holotype: RV, IGPS 85819 (Pl. 18, fig. 4), Paratypes: LV, IGPS 87001 (Pl. 18, fig. 6); LV, IGPS 87002 (Pl. 18, fig. 5)

An exposure, about 1,500 m SE of Saboyama, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

[=*Hermanites* ? *posterocostatus* Ishizaki, 1966 (by Hanai et al., 1977)]

***Hermanites simplex* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 148, Pl. 2, figs. 4, 5, 10–12, 15, text-fig. 21

Holotype: CC, CKUM 3762 (Pl. 2, figs. 4, 12), Paratypes: CKUM 3761; RV, CKUM 3763 (Pl. 2, figs. 11, 15); CKUM 3764 (Pl. 2, fig. 10); CKUM 3767 (Pl. 2, fig. 5); CKUM 3765, 3766, 3768, 3769 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Cornucoquimba simplex* (Hu, 1978) (by Hu, 1984)]

***Hermanites subtropicus* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 31, 32, Pl. 1, figs. 16, 17, text-fig. 6

Holotype: LV, CKUM 2020 (Pl. 1, figs. 16, 17)

Loc. 13 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Cornucoquimba subtropica* (Hu, 1976) (by Hanai et al., 1980)]

***Hermanites tosaensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 41, Pl. 2, fig. 4, Pl. 8, figs. 13, 14

Holotype: LV, IGPS 90313 (Pl. 2, fig. 4, Pl. 8, fig. 14), Paratype: RV, IGPS 90314 (Pl. 8, fig. 13)

St. 37 = Uranouchi Bay, Kochi Prefecture (33°25'25"N, 133°26'07"E) (sandy mud, depth 7 m)

Recent

[=*Cornucoquimba tosaensis* (Ishizaki, 1968) (by Hanai et al., 1977)]

***'Hermanites' miyakoensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 49, Pl. 14, figs. 3a–d

Holotype: LV, RUEG 127 (Pl. 14, figs. 3a–d)

St. 200 = Ca. 100 km S of Miyako-jima, East China Sea (23°52'02"N, 125°47'00"E) (silt, depth 1180 m)

Recent

Heterocypris kaufmanni* (Vávra, 1906)**[See *Cyprinotus kaufmanni* Vávra, 1906.]Heterocypris takedai* Okubo, 1973**

Annot. Zool. Japon., v. 46, no. 2, p. 85~89, figs. 1a, b, 2a~l

Holotype: CC female with appendages, BLOSJC-8 (figs. 2a, b, d~l) (the specimen missing), Paratypes: CC females with appendages, BLOSJC-9 (figs. 1a, b); female, BLOSJC-10 (no figures), female, BLOSJC-11 (no figures); female, BLOSJC-12~20 (the specimen missing)

A paddy field, Hachioji-city, Tokyo Metropolis (ca. 35° 40'N, 139° 20'E) (mud)

Recent

[=*Heterocypris bulgarica* Sywula, 1968 (by Okubo, 1990). In Okubo (1973), fig. 2c is shown as the paratype, but it cannot be corresponded to any specimen number.]***Heterocythereis otsuchiensis* Ikeya and Zhou, 1992**

In Ishizaki, K. and Saito, T. (eds.), Centenary of Japanese Micro-paleontology, p. 349, figs. 10-10a, 10b, 11, 12, 13a, 13b, 14a, 14b, 15. Terra Sci. Publ., Tokyo

Holotype: CC female, IGSU-O-767 (figs. 10-13a, 13b, 14a, 14b, 15), Paratype: CC male, IGSU-O-766 (figs. 10-10a, 10b, 11, 12)

St. 39 = Rocky shore of Otsuchi Bay, Iwate Prefecture (39° 19.9'N, 141° 56.9'E)

Recent

***Heterodesmus adamsii* Brady, 1866**

Trans. Zool. Soc. London, v. 5, p. 387, 388, Pl. 62, figs. 6a~h

Types: HMNT collection

Exact locality unknown, Japan (towing-net)

Recent

***Heterodesmus apriculus* Hiruta, 1992**

Jour. Nat. Hist., no. 26, p. 1250~1261, figs. 5A~D, 6A~G, 7A~H, 8A~F, 9A~G, 10A~E, 11A~D

Holotype: CC female with appendages, USNM 194081 (figs. 5A, B, 6A~F, 7A~H, 8A~F), Allotype: CC male with appendages USNM 194084 (figs. 5C, D, 9A~G, 10A~E, 11A~D), Paratypes: CC female with appendages, USNM 194082 (fig. 6G); CC female with appendages, USNM 194083 (no figures); CC male with appendages, USNM 194085 (no figures)

Tsukumo Bay, near the Noto Marine Laboratory, Kanazawa University (37° 18.4'N, 137° 14.2'E) (muddy sand, depth 3~4 m)

Recent

***Hirsutocythere ? akatsukiborensis* Yajima, 1992**

Bull. Mizunami Fossil Mus., no. 19, p. 259, 260, Pl. 32, figs. 12~14

Holotype: CC male, UMUT CA 17695 (Pl. 32, fig. 13), Paratypes: CC female, UMUT CA 17694 (Pl. 32, fig. 12);

CC female, UMUT CA 19095 (Pl. 32, fig. 14)

Loc. 1 = A small exposure, right bank of the Hiyoshi River, 2.5 km N of the Mizunami Fossil Museum, Hiyoshi-machi, Mizunami-shi, Gifu Prefecture (35° 23'29''N, 137° 14'27''E)

Akeyo Formation (Shukunohora Sandstone Member)

Early Miocene

***Hirsutocythere? hanaii* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 46, 47, Pl. 9, figs. 4a, b, 5a, b, 6a, b, 7; Pl. 15, fig. 6

Holotype: RV, IGPS 97065 (Pl. 9, figs. 4a, b), Paratypes: LV, IGPS 97063 (Pl. 9, figs. 6a, b; Pl. 15, fig. 6); RV, IGPS 97064 (Pl. 9, fig. 7); LV immature form, IGPS 97066 (Pl. 9, figs. 5a, b)

St. 30 = S of Cheju-do (31° 15.9'N, 127° 21.9'E) (fine sand, depth 114 m)

Recent

Hirsutocythere ? nozokiensis* (Ishizaki, 1963)**[See *Carinocythereis nozokiensis* Ishizaki, 1963.]Hollinella elliptica* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 142, 143, Pl. 16, figs. 1, 2

Holotype: RV, IGPS 85770 (Pl. 16, fig. 1), Paratype: RV, IGPS 85771 (Pl. 16, fig. 2)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Hollinella paraemaciata* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 31, 32, Pl. 1, fig. 2, text-fig. 1

Holotype: LV, IGPS 78042 (Pl. 1, fig. 2, text-fig. 1)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Howeina camptocytheroidea* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 22, 23, Pl. 3, figs. 4a~c, text-figs. 5a, b

Holotype: RV, UMUT CA 2612 (Pl. 3, figs. 4a, text-fig. 5b), Paratypes: LV, UMUT CA 2613 (text-fig. 5a); LV, UMUT CA 2614 (Pl. 3, fig. 4b); CC, UMUT CA 2615 (Pl. 3, fig. 4c)

Kaigara-zawa, about 500 m W of Nishino-sawa, Kuromatsunai-mura, Suttu-gun, Hokkaido

Setana Formation

Upper Pliocene

***Howeina* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 22

Type species: *Howeina camptocytheroidea* Hanai, 1957

***Howeina higashimeyaensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 80, 81, Pl. 7, figs. 1~4

Holotype: RV, IGPS 90350 (Pl. 7, fig. 1), Paratypes: LV, IGPS 91530 (Pl. 7, fig. 3); RV, IGPS 91531 (Pl. 7, fig. 4); LV, IGPS 91532 (Pl. 7, fig. 2)

St. 8 = Aomori Bay, Aomori Prefecture (40°56'21''N, 140°51'57''E) (sandy mud, depth 16 m)

Recent

[The specimens of IGPS 91531 and 91532 were occurred from the Pliocene Higashimeya Formation (S of Yamada, Soma-mura Nakatsugaru-gun, Aomori Prefecture).]

***Howeina leptocytheroidea* (Hanai, 1957)**

[See *Cytherura leptocytheroidea* Hanai, 1957.]

***Howeina neoleptocytheroidea* (Ishizaki, 1966)**

[See *Cytherura neoleptocytheroidea* Ishizaki, 1966.]

***Ilyocypris formosensis* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 82, 83, Pl. 1, figs. 16, 17, 20, text-fig. 20

Holotype: LV, TNUM 4110 (Pl. 1, figs. 17, 20), Paratype: LV, TNUM 4109 (Pl. 1, fig. 16)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan
Hengchun Limestone
Pleistocene

***Ilyocypris haterumensis* Okubo and Terauchi, 1992**

Proc. Japan Soc. Syst. Zool., no. 46, p. 101, 102, text-figs. 1 a~f, Pl. 1, figs. A~C

Holotype: CC male with appendages, FO 795 (Pl. 1, fig. C, text-figs. 1a~f), Allotype: CC female, FO 796 (Pl. 1, figs. A, B), Paratypes: 2 CC females, FO 797, 799 (no figures)

A paddy field, Hateruma Jima, Okinawa Prefecture (ca. 24°15'N, ca. 123°47'E)

Recent

***Ilyocypris japonica* Okubo, 1990**

Bull. Biogeogr. Soc. Japan, v. 45, nos. 1~22, p. 40, figs. 1f~i

Holotype: CC male with appendages, FO 652 (figs. 1f~i), Allotype: CC female, FO 654 (no figures), Paratypes: 2 CC males, FO 651, 655 (no figures)

A paddy field, near Tsukuda railway station, Gunma Prefecture (36°34.0'N, 139°03.0'E)

Recent

***Ishizakiella miurensis* (Hanai, 1957)**

[See *Tanella miurensis* Hanai, 1957.]

***Ishizakiella ryukyuensis* Tsukagoshi, 1994**

Jour. Crustacean Biology, v. 14, no. 2, p. 296~303, figs. 4A~P, 5A~I, 6A~I, 7C

Holotype: CC male with appendages, UMUT RA 19642 (figs. 4A, B, 5I, 6A~H, 7C), Paratypes: CC female, UMUT RA 19643 (fig. 4C); CC female, UMUT RA 19644 (fig. 4D); CC female, UMUT RA 19648 (fig. 4I); CC female, UMUT RA 19649 (fig. 4J); CC female, UMUT RA 19652 (fig. 4M); CC female, UMUT RA 19653 (fig. 4N); female appendages, UMUT RA 19656 (fig. 5C); female appendage, UMUT RA 19658 (fig. 6I); CC male, UMUT RA 19645 (Figs. 4E, F, O, P, 5D~G); CC male, UMUT RA 19646 (fig. 4G); CC male, UMUT RA 19647 (fig. 4H); CC male, UMUT RA 19650 (fig. 4K); CC male, UMUT RA 19651 (fig. 4L); UMUT RA 19657 (fig. 5H); CC juvenile, UMUT RA 19654 (fig. 5A); CC juvenile, UMUT RA 19655 (fig. 5B)

No. 13 = The mouth of the Kesaji River, Okinawa Island, Okinawa Prefecture (26°36.4'N, 128°08.4'E)

Recent

***Ishizakiella supralittoralis* (Schornikov, 1974)**

[See *Tanella supralittoralis* Schornikov, 1974.]

***Isocythereis* ? *roochuensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 44, Pl. 7, figs. 3a, b

Holotype: RV, RUEG 117 (Pl. 7, figs. 3a, b)

Loc. 7571703 = Kudeken, Chinen-son, Okinawa Prefecture (Type locality of Chinen Formation) (26°10'00''N, 127°49'36''E)

Chinen Formation

Pleistocene

***Johnnealella* Hanai and Ikeya, 1991**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 163, p. 872, 874

Type species: *Johnnealella nopporensis* Hanai and Ikeya, 1991

***Johnnealella nopporensis* Hanai and Ikeya, 1991**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 163, p. 874, 876, figs. 7-1~9, 8-1~5, 9

Holotype: LV female, IGSU-O-160 (figs. 7-3a, b, 8-3a, b), Paratypes: RV female, IGSU-O-161 (figs. 7-4a, b, 8-4a, b); LV male, IGSU-O-158 (figs. 7-1a, b); RV male, IGSU-O-159 (figs. 7-2a, b, 9); LV male, IGSU-O-163 (figs. 7-8a, b, 8-2a, b, 8-5a, b); RV male, IGSU-O-162 (figs. 7-9a, b, 8-1a, b); RV adult-1 and adult-2, IGSU-O-164 and 165 (figs. 7-5, 7-6); LV adult-3, IGSU-O-166 (fig. 7-7)

Loc. Hosoda N2 = 1,800 m E of Prefectural Library, Ebetsu-shi, Hokkaido (43°03'58''N, 141°32'57''E)

Shimonoporo Formation

Lower Pleistocene

***Jugosocythereis hanaii* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 52, Pl. 7, figs. 4a~c

Holotype: LV, RUEG 134 (Pl. 7, figs. 4a~c)

Loc. 76121501A = Ca. 500 m SE of Shinzato, Sashiki-cho, Shimajiri-gun, Okinawa Prefecture (Type locality of Shinzato Formation) (26°9'40''N, 127°46'36''E)

Shinzato Formation

Pliocene

[Sample horizon = Ca. 5 m below the base of the upper most carbonized woods bed (bluish gray silt)]

***Kangarina cava* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 189, 190, figs. 26-13, 15, 16, text-fig. 8

Holotype: CKUM 3609 (fig. 26-16), Paratypes: CKUM 3608 (fig. 26-13); CKUM 3607 (fig. 26-15)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Kangarina hayamii* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 220, 221, Pl. 14, figs. 10, 11, 14

Holotype: CC, UMUT CA 9892 (Pl. 14, fig. 10), Paratypes: LV, UMUT CA 9893 (Pl. 14, fig. 14); RV, UMUT CA 9894 (Pl. 14, fig. 11)

Loc. 120 = A cliff, along the Murata River, 2.4 km SE of Honda railway station, Ochi-shimoshinden, Ichihara-shi, Chiba Prefecture (35°31'30''N, 140°13'48''E)

Yabu Formation (Yabu Member)

Pleistocene

***Kangarina kunchiatiena* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 87, Pl. 5, fig. 19, text-fig. 20

Holotype: LV, TNUM 8181 (Pl. 5, fig. 19)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Kangarina shinzatoensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 2, 13, 15, 20, 57, Pl. 7, fig. 6

Holotype: RV, RUEG 147 (Pl. 7, fig. 6)

Loc. 76121501A = Ca. 500 m SE of Shinzato, Sashiki-cho, Shimajiri-gun, Okinawa Prefecture (Type locality of Shinzato Formation) (26°9'40''N, 127°46'36''E)

Shinzato Formation

Pliocene

[Sample horizon = Ca. 5 m below the base of the upper most carbonized woods bed (bluish gray silt)]

***Kangarina yamaguchii* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 102, 103,

Pl. 18, figs. 11~16, text-figs. 17-7, 8

Holotype: LV, UMUT CA 15920 (Pl. 18, figs. 12, 15), Paratypes: RV, UMUT CA 15921 (Pl. 18, figs. 11, 14, 16, text-fig. 17-8); LV, UMUT CA 15922 (Pl. 18, fig. 13, text-fig. 17-7)

Loc. OT2 = An exposure along the Otanizawa River, 4 km S of Tsurugasaka railway station, Magonai, Aomori-shi, Aomori Prefecture (40°45'10''N, 140°39'08''E)

Daishaka Formation

Plio-Pleistocene

***Kasella ryukyuensis* Tabuki and Hanai, 1999**

Palaeontology, v. 42, pt. 4, p. 578~582, Pl. 1, Pl. 2, figs. 1~3, Pl. 3, fig. 7, text-figs. 3c, 4

Holotype: LV female, RUEG 158 (Pl. 1, fig. 2, text-fig. 3c), Paratypes: RV female, RUEG 157 (Pl. 1, fig. 1); RV juvenile (A-2 stage), RUEG 159 (Pl. 1, fig. 3); RV juvenile (A-5 stage), RUEG 160 (Pl. 1, fig. 4); CC female, RUEG 161 (Pl. 1, figs. 5a~d); CC female, RUEG 162 (Pl. 1, figs. 6a~d); RV female, RUEG 163 (Pl. 1, figs. 7a~b, Pl. 2, fig. 1); LV female, RUEG 164 (Pl. 1, figs. 8a~b, Pl. 2, figs. 2a~c, Pl. 3, fig. 7); RV female, RUEG 165 (Pl. 1, fig. 9); LV female, RUEG 166 (Pl. 1, fig. 10); LV female, RUEG 167 (Pl. 2, fig. 3); female appendages and genital lobe, RUEG 168 (text-fig. 4)

'Daidokutsu' = The submarine cave in coral reef of Ie Island, Ryukyu Islands (26°42.9'N, 127°50.1'E) (depth 20~31 m)

Recent

***Kasella* Tabuki and Hanai, 1999**

Palaeontology, v. 42, pt. 4, p. 572~578

Type species: *Kasella ryukyuensis* Tabuki and Hanai, 1999

***Kellettina ? japonica* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 56, 57, Pl. 2, fig. 1

Holotype: RV, IGPS 87077 (Pl. 2, fig. 1)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Khataiella* Ishizaki, 1973**

[See *Hataiella* Ishizaki, 1967.]

***Khataiella longa* (Ishizaki, 1967)**

[See *Hataiella longa* Ishizaki, 1967.]

***Khataiella minima* (Ishizaki, 1967)**

[See *Hataiella minima* Ishizaki, 1967.]

***Khataiella ohazamensis* (Ishizaki, 1967)**

[See *Hataiella ohazamensis* Ishizaki, 1967.]

***Kindlella kitanipponica* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 57, 58, Pl. 2, figs. 2, 3

Holotype: RV, IGPS 87078 (Pl. 2, fig. 2), Paratype: LV, IGPS 87079 (Pl. 2, fig. 3)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinukuni-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Kingarina cavata* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 91, Pl. 4, figs. 15~17, text-fig. 10

Holotype: LV, TNUM 7074 (Pl. 4, figs. 15, 16), Paratype: TNUM 7075 (Pl. 4, fig. 17)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Kingarina cavatoida* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 90, Pl. 4, figs. 11, 19, text-fig. 9

Syntype: TNUM 7072, Paratype: TNUM 7073

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Kirkbya atolla* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 145, 146, Pl. 16, figs. 7, 8a, b

Holotype: RV, IGPS 85777 (Pl. 16, figs. 8a, b), Paratype: RV immature form, IGPS 85776 (Pl. 16, fig. 7)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Kirkbya centrotumida* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 146, 147, Pl. 16, figs. 9a~c, 10, text-fig. 4

Holotype: LV, IGPS 85778 (Pl. 16, figs. 9a~c, text-fig. 4), Paratype: LV, IGPS 85779 (Pl. 16, fig. 10)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Kirkbya kitakamiensis* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 33, Pl. 1, figs. 4a, b

Holotype: RV, IGPS 78395 (Pl. 1, figs. 4a, b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Kirkbya magniforma* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 147, Pl. 17, figs. 1a~c

Holotype: RV, IGPS 85783 (Pl. 17, figs. 1a~c)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Kirkbya multicresta* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 147, 148, Pl. 17, figs. 6, 7

Holotype: LV, IGPS 85786 (Pl. 17, fig. 6), Paratype: RV, IGPS 85787 (Pl. 17, fig. 7)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Kirkbya nagaiwensis* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 33, 34, Pl. 1, figs. 5a, b

Holotype: CC, IGPS 78400 (Pl. 1, figs. 5a, b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Kirkbya nanatsumoriensis* Ishizaki, 1968**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 37, p. 13, Pl. 1, figs. 5, 6

Holotype: RV, IGPS 78408 (fig. 5), Paratype: LV, IGPS 78409 (fig. 6)

A cliff of the valley of a tributary of the Sarusawa River, W of Nanatsumori and 1 km N of Sarusawa, Daito-machi, Higashiiwai-gun, Iwate Prefecture

Takezawa Formation

Mississippian

[=*Kirkbya ? nanatsumoriensis* Ishizaki, 1968 (by Hanai *et al.*, 1977)]

***Kirkbya nipponica* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 32, 33, Pl. 1, figs. 3a, b

Holotype: RV, IGPS 78392 (Pl. 1, fig. 3a), Paratype: LV, IGPS 78398 (Pl. 1, fig. 3b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

[=*Kirkbya ? nipponica* Ishizaki, 1964 (by Hanai *et al.*, 1977)]

***Kirkbya sarusawensis* Ishizaki, 1968**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 37, p. 13, 14, Pl. 1, fig. 7

Holotype: RV, IGPS 78410 (Pl. 1, fig. 7)

A cliff of the valley of a tributary of the Sarusawa River, W of Nanatsumori and 1 km N of Sarusawa, Daito-machi, Higashiiwai-gun, Iwate Prefecture

Takezawa Formation

Mississippian

***Kirkbya subnipponica* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 148, 149, Pl. 17, figs. 2a, b, 3

Holotype: LV, IGPS 85784 (Pl. 17, figs. 2a, b), Paratype: LV, IGPS 85785 (Pl. 17, fig. 3)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

[=*Kirkbya* ? *subnipponica* Ishizaki, 1964 (by Hanai *et al.*, 1977)]

***Kirkbya subquadriforma* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 149, Pl. 16, fig. 11, Pl. 17, figs. 8a, b

Holotype: LV, IGPS 85781 (Pl. 17, figs. 8a, b), Paratype: RV, IGPS 85780 (Pl. 16, fig. 11)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

***Knightina hinomataensis* Ishizaki, 1967**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 36, p. 55, 56, Pl. 1, fig. 10

Holotype: LV, IGPS 87084 (Pl. 1, fig. 10)

1,200 m N of Hinomata, a tributary of the Hinomata River, Ohazama-machi, Hinuki-gun, Iwate Prefecture

Tassobe Formation

Lower Permian

***Kobayashiina* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 30

Type species: *Kobayashiina hyalinosa* Hanai, 1957

***Kobayashiina hyalinosa* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 1, p. 30, 31, Pl. 4, figs. 5a, b, text-figs. 6a, b

Holotype: RV, UMUT CA 2633 (Pl. 4, fig. 5a), Paratypes: RV, UMUT CA 2634 (text-fig. 6b); LV, UMUT CA 3635 (Pl. 4, fig. 5b); LV, UMUT CA 3636 (text-fig. 6a)

The cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata Prefecture

Sawane Formation

Upper Pliocene

***Kotoracythere abnorma* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 152, Pl. 18, figs. 10~12, text-fig. 1, fig. 9

Holotype: RV, IGPS 87008 (Pl. 18, fig. 10), Paratypes: LV, IGPS 87007 (Pl. 18, fig. 11); RV, IGPS 87010 (Pl. 18, fig. 12, text-fig. 1, fig. 9)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Kotoracythere* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 151, 152

Type species: *Kotoracythere abnorma* Ishizaki, 1966

***Kotoracythere tatsunokuchiensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 152, 153, Pl. 18, figs. 13, 14, text-fig. 1, fig. 8

Holotype: RV, IGPS 87014 (Pl. 18, fig. 13), Paratype: LV, IGPS 87015 (Pl. 18, fig. 14, text-fig. 1, fig. 8)

Down stream of the Tatsunokuchi gorge, in the western part of Sendai-shi, Miyagi Prefecture

Tatsunokuchi Formation

Pliocene

***Kotoracythere tsukagoshii* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 7, 8, figs. 5-1, 6-1a~e, 2a~c, 3a~d

Holotype: LV male, SUM CO1208 (figs. 6-1a~e), Paratypes: RV male, SUM CO1209 (figs. 6-2a~c); CC female, SUM CO 1210 (figs. 6-3a~d); LV female, SUM CO 1211 (fig. 5-1)

Loc. 1-A15 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 5 m below the top of the Upper Member of Fujina Formation]

***Krithe antisawanense* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 137, 138, Pl. 18, figs. 17, 24, 25

Holotype: RV, IGPS 87016 (Pl. 18, fig. 17), Paratypes: LV, IGPS 87017 (Pl. 18, fig. 25); RV, IGPS 87018 (Pl. 18, fig. 24)

An exposure about 1,500 m SE of Saboyama, Senndai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

[=*Krithe antisawanensis* Ishizaki, 1966 (by Hanai *et al.*, 1977)]

***Krithe antisawanensis* Ishizaki, 1966**

[See *Krithe antisawanense* Ishizaki, 1966.]

***Krithe hanaii* Ishizaki, 1983**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 131, p. 142, Pl. 33, figs. 1~4; Pl. 35, fig. 9

Holotype: LV, IGPS 97813 (Pl. 33, fig. 3, Pl. 35, fig. 9), Paratypes: LV, IGPS 97811 (Pl. 33, fig. 2); RV, IGPS 97812 (Pl. 33, figs. 1a~c); RV, IGPS 97814 (Pl. 33, fig. 4)

About 80 m W of Ono, Yasuda-cho, Aki-gun, Kochi Prefecture

Ananai Formation

Pliocene

[Sample horizon H2 = Ca. 2 m below the top of Ananai Fm.]

***Krithe hyalina* Brady, 1880**

Rept. Voyage Challenger, Zool., v. 1, pt. 3, p. 115, Pl. 27, figs. 3a~d

Lectotype: CC, BMNH 81.5.34 (Pl. 18, figs. 1, 2 in Puri and Hulings, 1976)

Challenger St. 233b = Setonaikai (34° 18.0'N, 133° 35.0'E, trawled) (mud, 15 fathoms)

Recent

***Krithe japonica* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 78, Pl. 5, fig. 1, Pl. 6, figs. 1, 5, Pl. 7, fig. 6

Holotype: RV female, IGPS 90342 (Pl. 6, fig. 1), Paratypes: RV male, IGPS 90340 (Pl. 7, fig. 6); LV male, IGPS 90341 (Pl. 5, fig. 1); LV female, IGPS 90343 (Pl. 6, fig. 5)

St. 4 = Aomori Bay, Aomori Prefecture (40° 54' 27''N, 140° 51' 11''E) (mud, depth 31 m)

Recent

***Krithe obesa* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 148, 149, Pl. 2, figs. 13, 14, text-fig 22

Holotype: RV, CKUM 3777 (Pl. 2, figs. 13, 14)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[= *Nipponocythere obesa* (Hu, 1978) (by Ishizaki, 1981), Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), V.51, nos. 1/2, p. 61-62

***Krithe sawanensis* Hanai, 1959**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 301, 302, Pl. 18, figs. 3~7, text-figs. 3, 4

Holotype: LV male, UMUT CA 2908 (Pl. 18, figs. 7a, b, text-figs., 4a, b), Allotype: RV female, UMUT CA 2909 (Pl. 18, figs. 5a, b), Paratypes: RV male, UMUT CA 2910 (Pl. 18, figs. 6a, b); LV immature form, UMUT CA 2911 (Pl. 18, figs. 4a, b, text-fig. 3a); RV immature form, UMUT CA 2912 (Pl. 18, figs. 3a, b, text-fig. 3b)

A cliff at Mano Bay, Sawane-machi Sado-gun, Niigata Prefecture

Sawane Formation

Upper Pliocene

***Krithe surugensis* Zhou and Ikeya, 1992**

Trans. Proc. Palaeont. Soc. Japan, N. S., no. 166, p. 1112, 1113, figs. 9-6~12

Holotype: CC male, IGSU-O-942 (figs. 9-6, 7), Paratypes: LV female, IGSU-O-943 (fig. 9-8); RV female, IGSU-O-944 (fig. 9-9); RV male, IGSU-O-945 (figs. 9-10, 11); RV female, IGSU-O-946 (fig. 9-12)

St. M115 = Suruga Bay, ca. 10 km SWS off Ose-zaki, Numazu-shi, Shizuoka Prefecture (34° 57.8'N, 138° 44.6'E) (clayey Silt, depth 320 m)

Recent

***Lankacythere ? euplectella* (Brady, 1869)**

[See *Cythere euplectella* Brady, 1869.]

***Laperousecythere ikeyai* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 11, figs. 5-4, 7-4a~e, 5a~c, 6a~c, 7a~c

Holotype: LV male, SUM CO 1225 (figs. 7-4a~e), Paratypes: RV male, SUM CO 1226 (figs. 7-5a~c); LV female, SUM CO 1227 (figs. 7-6a~c); RV female, SUM CO 1228 (figs. 7-7a~c); LV male, SUM CO 1229 (fig. 5-4)

Loc. 1-A15 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35° 25.5'N, 133° 02.3'N) Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 5 m below the top of the Lower Member of Fujina Formation]

***Laperousecythere ishizakii* Irizuki and Matsubara, 1995**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 177, p. 73, figs. 6.1~4

Holotype: LV female, IGPS 102547 (figs. 6. 3a~c), Paratypes: LV male, IGPS 102548 (fig. 6. 1); RV female, IGPS 102549 (fig. 6. 2); CC female, IGPS 102550 (fig. 6. 4)

Loc. JMJ 3 = along the Jumonji-gawa, Prefecture (40° 17' 37''N, 141° 17' 35''E)

Suenomatsuyama Formation (Maisawa Sandstone Member)

Lower

Middle Miocene

***Leguminocythereis bisanensis* Okubo, 1975**

Proc. Japan Soc. Syst. Zool., no. 11, p. 26-30, figs. 2a~l, 3a~j Syntypes: CC female with appendages, BLOSJC-21 (the specimen missing); CC male, BLOSJC-22 (the specimen missing); CC male, BLOSJC-23 (the specimen missing)

20 m off the shore of Shibukawa, Tamano-shi, Okayama Prefecture (34° 27.2'N, 133° 54.3'E) (mud, depth ca. 10 m)

Recent

[=*Bicornucythere bisanensis* (Okubo, 1975) (by Schornikov and Shaytarov, 1979) Okubo (1975c) presented 1 female and 2 males (adult and A-1 stage) as the type specimens, but failed to designate holotype and also the sketches in figs. 2 and 3 do not correspond to the specimen numbers.]

***Leguminocythereis elongatus* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 196, figs. 24-18, 24, 26, text-fig. 14

Holotype: CC, CKUM 3522 (figs. 24-24, 26), Paratype: CKUM 3521 (fig. 24-18)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Bicornucythere bisanensis* (Okubo, 1975) (by Hu, 1986)]

***Leguminocythereis fava* Hu and Yeh, 1978**

Proc. Geol. Soc. China, no. 21, p. 151-153, Pl. 1, figs. 1-3, text-fig. 2

Holotype: CKUM 3935, Paratypes: CKUM 3936; CKUM 3937 (Pl. 1, fig. 3); CKUM 3938, 3939 (no figures)

0.5 km S of the Liushuang village, Kuantien-hisang, Tainan-hsien, Tainan District, Taiwan

Liushuang Formation

Pleistocene

[Two figures (Pl. 1, figs. 1, 2) in the original description (Hu and Yeh, 1978) cannot be correlated with each type specimen (CKUM 3935, 3936).]

***Leguminocythereis kianfascistus* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 73, Pl. 2, figs. 1, 3, 4, 6; text-fig. 9

Holotype: CC, TNUM 4121 (Pl. 2, figs. 1, 6), Paratype: LV, TNUM 4122 (Pl. 2, figs. 3, 4)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Leguminocythereis ovalis* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 199, 200, Pl. 2, fig. 10, Pl. 3, figs. 8-11, text-fig. 10

Holotype: male, CKUM 3085 (Pl. 3, fig. 8), Paratypes: RV, CKUM 3081 (Pl. 2, fig. 10); female, CKUM 3082; female, CKUM 3083; CC, CKUM 3084 (Pl. 3, fig. 11); CKUM 3097-3100 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

[Two figures (Pl. 3, figs. 9 and 10) in the original description (Hu and Cheng, 1977) cannot be correlated with each type

specimen (CKUM 3082, 3083).]

***Leguminocythereis propria* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 146, 147, Pl. 171, fig. 12

Holotype: LV, DJ 0102 (Pl. 171, fig. 12)

East China Sea

Oujiang Formation

Early Eocene

***Leguminocythereis pseudoertlii* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 184, Pl. 3, figs. 1, 3, 5, 6, 8, Pl. 2, fig. 24, text-fig. 5

Holotype: RV, TNUM 7250 (Pl. 3, figs. 3, 6), Paratypes: juvenile, TNUM 7241 (Pl. 2, fig. 24); RV, TNUM 7248 (Pl. 3, figs. 1, 5, 8); TNUM 7249

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

[=*Bicornucythere pseudoertlii* (Hu, 1982) (by Hu, 1986)]

***Leguminocythereis rhomboidalis* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 65, 66, Pl. 2, figs. 28, 29, text-fig. 6

Holotype: RV, TUM 4032 (Pl. 2, figs. 28, 29)

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limstone, Hungchun peninsula, southern Taiwan

Hungchun Limstone

Late Pleistocene / Holocene

***Leguminocythereis taiwanensis* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 97, 98, Pl. 1, figs. 1, 3, 4, 9, 22, text-fig. 15

Holotype: CKUM 3716 (Pl. 1, fig. 1), Paratypes: CKUM 3717; CKUM 3718 (Pl. 1, fig. 3); LV, CKUM 3719 (Pl. 1, fig. 9); CKUM 3720 (Pl. 1, fig. 22); CKUM 3721-3725 (no figures)

The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan

Toukoshan Formation

Pleistocene

[=*Bicornucythere bisanensis* (Okubo, 1975) (by Hu, 1986)]

***Leguminocythereis tomokoe* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 26, Pl. 1, fig. 11, Pl. 5, figs. 1, 2, 17

Holotype: RV, IGPS 90245 (Pl. 1, fig. 11, Pl. 5, fig. 1), Paratypes: LV, IGPS 90244 (Pl. 5, fig. 2); LV immature form, IGPS 90246 (Pl. 5, fig. 17)

St. 316 = Uranouchi Bay, Kochi Prefecture (33°26'15"N,

133°27'22''E) (fine sand, depth 6.5 m)

Recent

[=*Moosella tomokoae* (Ishizaki, 1968) (by Malz and Ikeya, 1982)]

***Leperditia japonica* Hamada, 1959**

Japan. Jour. Geol. Geogr., v. 30, p. 43~45, text-figs. a~c

Holotype: UMUT PA 7279

A small cutting on a trail for wooden sleigh on the left side of the Ichinotani valley, a tributary of Osobudani, Fukuji, Kamitakara-mura, Yoshiki-gun, Gifu Prefecture
Takaharagawa Formation
Devonian

***Leptocythere ? tosaensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 26, 27, Pl. 1, fig. 12, Pl. 5, figs. 19, 20

Holotype: LV, IGPS 90247 (Pl. 1, fig. 12, Pl. 5, fig. 19),

Paratype: RV, IGPS 90248 (Pl. 5, fig. 20)

St. 72 = Uranouchi Bay, Kochi Prefecture (33°25'45''N, 133°24'45''E) (fine sand, depth 15 m)

Recent

***Leptocythere favata* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 110, 111, Pl. 14, figs. 1~6, 8, 10

Holotype: CC, TNUM 11336 (Pl. 14, fig. 1), Paratypes: 3 CC, TNUM 11337~11339 (Pl. 14, figs. 4, 5, 8); 2 LV, TNUM 11340, 11341 (Pl. 14, figs. 2, 6); CC, TNUM 11342 (Pl. 14, fig. 3); LV, TNUM 11343 (Pl. 14, fig. 10)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwao Member)

Pleistocene

***Leptocythere polymorpha* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 155-157, Pl. 2, figs. 3a~g, text-fig. 10

Holotype: CC male, FESC-416~417, Paratypes: no numbers
Dolgoye Lake near Kasatka Bay, Iturup Is., Kuril Islands

Recent

[The figures (Pl. 2, figs. 3a~g, text-fig. 10) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Leuroleberis surugaensis* Hiruta, 1982**

Jour. Hokkaido Univ. Educ., Sec. II B, v. 33, no. 1, p. 11~18, figs. 2-1~7, 3-1~4, 4-1~5, 5-1~3

Holotype: CC female with appendages, ZIHU 2224 (figs. 2-1~7, 3-1~4, 4-1~3, 5, 5-1~3), Paratype: CC female with appendages, ZIHU 2225 (fig. 4-4)

St. OT-6 (II) = Uchiura-wan, Suruga Bay (35°03.3'N, 138°50.0'E - 35°04.3'N, 138°49.4'E) (mud, depth 108~115 m)

Recent

***Lixouria nipponica* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 400, 401, Pl. 50, figs. 7a~c, text-fig. 9, figs. 2a, b

Holotype: CC, UMUT CA 8424 (Pl. 50, fig. 7c), Paratypes: RV, UMUT CA 8425 (Pl. 50, fig. 7a, text-fig. 9, fig. 2b); LV, UMUT CA 8419 (Pl. 50, fig. 7b, text-fig. 9, fig. 2a)

Loc. 29 = An exposure, 300 m SW of the Shounji Temple, Senzoku, Josai, Kisarazu-shi, Chiba Prefecture (35°21'52''N, 139°56'00''E)

Narita Formation (Kami-Iwahashi Member)

Pleistocene

[=*Amphileberis nipponica* (Yajima, 1978) (by Malz, 1981)]

***Loxoconcha bispinosa* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 9, 10, Pl. 1, figs. 52~55

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Loxoconcha bizenensis* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 418~420, figs. 14a~j, 18e~j

Holotype: CC male with appendages, MO 912 (=NSMT-Cr 15283) (figs. 14a~j, 18h~j), Allotype: CC female with app, MO 608 (figs. 18e~g), Paratypes: CC males with appendages, MO 613 (=NSMT-Cr 15284) (no figures); CC males with appendages, MO 908 (=NSMT-Cr 15285) (no figures)

St. 19 = The intertidal zone, rocky shore, Muneage, Tamano-shi, Okayama Prefecture (34°32.5'N, 134°01.5'E)

Recent

***Loxoconcha brevia* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 81, Pl. 1, figs. 1~4, 6, text-fig. 13

Holotype: TNUM 8075, Paratypes: TNUM 8076, 8077; RV, TNUM 8078 (Pl. 1, fig. 2); CC, TNUM 8079 (Pl. 1, fig. 6)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Loxoconcha chinzeii* Ikeya and Zhou, 1992**

In Ishizaki, K. and Saito, T. (eds.), Centenary of Japanese Micro-paleontology, 1992, p. 353, figs. 10-2, 3a, 3b, 4a, 4b, 5a, 5b. Terra Sci. Publ., Tokyo

Holotype: CC, IGSU-O-763 (figs. 10-4a, 4b, 5a, 5b), Paratypes: RV, IGSU-O-761 (fig. 10-2); LV, IGSU-O-762 (figs. 10-3a, 3b)

St. 21 = Otsuchi Bay, Iwate Prefecture (39°20.4'N, 141°58.0'E) (coarse sand, depth 37 m)
Recent

***Loxoconcha convexa* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 41, 42, Pl. 2, figs. 1~6, text-fig. 12

Holotype: LV, CKUM 2038 (Pl. 2, figs. 1, 4), Paratypes: LV, CKUM 2039 (Pl. 2, figs. 2, 6); CC, CKUM 2040 (Pl. 2, figs. 3, 5); CKUM 2041, 2042 (no figures)

Loc. 13 or 14 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

***Loxoconcha crassella* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 80, Pl. 1, figs. 5, 7~10, 14, text-fig. 12

Holotype: TNUM 8083, Paratypes: CC, TNUM 8081 (Pl. 1, fig. 7); LV, TNUM 8082 (Pl. 1, fig. 8); TNUM 8080, 8084, 8085

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[Four figures (Pl. 1, figs. 5, 9, 10, 14) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8080, 8083~8085).]

***Loxoconcha epeterseni* Ishizaki, 1981**

[See *Loxoconcha laeta* Ishizaki, 1968.]

***Loxoconcha hanachirusato* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 221, 222, Pl. 11, figs. 1~4

Holotype: RV male, UMUT CA 9895 (Pl. 11, fig. 2), Paratypes: RV female, UMUT CA 9896 (Pl. 11, fig. 4); LV male, UMUT CA 9897 (Pl. 11, fig. 1); LV female, UMUT CA 9898 (Pl. 11, fig. 3)

Loc. 189 = An exposure, 3.5 km SSE of Kobayashi railway station, Imba-mura, Imba-gun, Chiba Prefecture (35°47'52''N, 140°12'38''E)

Kioroshi Formation (Kioroshi Member)

Pleistocene

***Loxoconcha harimensis* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 422~424, figs. 16a~j, 19g~l

Holotype: CC male with appendages, MO 856 (=NSMT-Cr 15286) (figs. 16c~j), Allotype: CC female with appendages, MO 857 (=NSMT-Cr 15287) (no figures), Paratypes: CC male, MO 590 (figs. 16a, b) (the specimen missing); 2 CC females with appendages, MO 814 (=NSMT-Cr 15288) (no

figures), 856b (no figures) (the specimen missing); CC female, MO 591 (figs. 19g~i) (the specimen missing)

St. 32 = The intertidal zone, rocky shore, Aioi-shi, Hyogo Prefecture (34°45.7'N, 134°28.4'E)

Recent

***Loxoconcha hastata* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 159, Pl. 16, figs. 19, 20

Holotype: not designated, the Brady's original specimens were presumed lost (See Whatley and Zhao, 1987, p. 26.)

Hong Kong

Recent

***Loxoconcha hataii* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, no. 1, p. 26, 27, Pl. 2, figs. 8a, b

Holotype: LV, IGPS 78893 (Pl. 2, figs. 8a, b)

Nishiichinose, W of Kanazawa-shi, Ishikawa Prefecture

Yatsuo Formation (Sunakosaka Member)

Miocene

***Loxoconcha hattorii* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 86, Pl. 5, figs. 5, 9, 10, Pl. 7, fig. 7

Holotype: LV, IGPS 91556 (Pl. 5, figs. 5, 9), Paratype: RV, IGPS 91557 (Pl. 5, fig. 10, Pl. 7, fig. 7)

St. 24 = Aomori Bay, Aomori Prefecture (40°53'33''N, 140°51'36''E) (adhering to plant, depth 5 m)

Recent

***Loxoconcha ikeyai* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 87, 88, Pl. 5, figs. 14a, b, 15

Holotype: LV, JC-1410 (Pl. 5, figs. 14a, b), Paratype: RV, JC-1411 (Pl. 5, fig. 15)

No. 8 (KT90-17) = Ca. 20 km SW off Tanabe-shi, Wakayama Prefecture (33°38.2'N, 135°13.0'E) (fine sand, depth 176 m)

Recent

***Loxoconcha japonica* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 28, 29, Pl. 2, fig. 1, Pl. 6, figs. 10~12

Holotype: LV, IGPS 90260 (Pl. 2, fig. 1, Pl. 6, fig. 11), Paratypes: RV, IGPS 90261 (Pl. 6, fig. 12); LV, IGPS 90262 (Pl. 6, fig. 10)

St. 303 = Uranouchi Bay, Kochi Prefecture (33°24'57''N, 133°26'53''E) (coarse sand, depth 25 m)

Recent

***Loxoconcha kattoi* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 29, Pl. 1, fig. 13, Pl. 6, figs. 14, 15

Holotype: LV, IGPS 90264 (Pl. 1, fig. 13, Pl. 6, fig. 14), Paratype: RV, IGPS 90265 (Pl. 6, fig. 15)

St. 303 = Uranouchi Bay, Kochi Prefecture (33°24'57''N, 133°26'53''E) (coarse sand, depth 25 m)

Recent

***Loxoconcha kitanipponica* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 87, Pl. 5, fig. 4, Pl. 6, figs. 11, 12, Pl. 7, fig. 10

Holotype: LV, IGPS 91559 (Pl. 5, fig. 4, Pl. 6, fig. 12), Paratype: RV, IGPS 91560 (Pl. 6, fig. 11, Pl. 7, fig. 10)

St. 17 = Aomori Bay, Aomori Prefecture (40°53'39''N, 140°50'51''E) (sandy mud, depth 22 m)

Recent

***Loxoconcha kosugii* Nakao and Tsukagoshi, 2002**

Species Diversity, v. 7, no. 1, p. 97~99, figs. 15A~M, 16A~K
Holotype: CC male, SUM CO 1174 (fig. 15A), Paratypes: CC male, SUM CO 1175 (fig. 15B); CC female, SUM-CO-1176 (fig. 15C); CC female, SUM CO 1177 (fig. 15D); CC male, SUM CO 1178 (fig. 15E); CC female, SUM CO 1179 (fig. 15F); LV male, SUM CO 1180 (fig. 15G); RV male, SUM CO 1181 (figs. 15H, L, M); LV female, SUM CO 1182 (fig. 15I); RV female, SUM CO 1183 (figs. 15J, K); CC male with appendages, SUM CO 1184 (fig. 16A); CC female, SUM CO 1185 (fig. 16B); CC male, SUM CO 1186 (figs. 16C~I, K); CC male with appendages, SUM CO 1187 (fig. 16J)

Loc. 24 = A creek of delta swamp at mouth of Obitsu River, Kisarazu-shi, Chiba Prefecture (35°24.6'N, 139°53.6'E) (sandy mud, depth 5 cm at lowest low tide)

Recent

***Loxoconcha laeta* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 29, 30, Pl. 1, fig. 14, Pl. 6, figs. 3, 4

Holotype: LV, IGPS 90266 (Pl. 1, fig. 14, Pl. 6, fig. 4), Paratype: RV, IGPS 90267 (Pl. 6, fig. 3)

St. 315 = Uranouchi Bay, Kochi Prefecture (33°25'55''N, 133°27'37''E) (fine sand, depth 10.5 m)

Recent

[=Junior homonym of *Loxoconcha laeta* Stancheva, 1963. The new name was proposed as *Loxoconcha epeterseni* (by Ishizaki, 1981, p. 65).]

***Loxoconcha lineata* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 106, 107, Pl. 2, fig. 23

Holotype: CKUM 1009 (Pl. 2, fig. 23), Paratypes: CKUM 1010, 1012 (no figures)

Mc-1 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

***Loxoconcha metarugosa* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 77, 78, Pl. 3, fig.

10; text-figs. 15C, D

Holotype: RV, TNUM 4153 (Pl. 3, fig. 10)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Loxoconcha modesta* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 30, Pl. 1, fig. 15, Pl. 8, figs. 11, 12

Holotype: CC, IGPS 90268 (Pl. 1, fig. 15, Pl. 8, fig. 12, Pl. 8, fig. 11)

Uranouchi Bay, Kochi Prefecture

Recent

[=Probably female of *Loxoconcha laeta* Ishizaki, 1968 (by Hanai *et al.*, 1977) =Junior homonym of *Loxoconcha modesta* (Brady, 1866). The new name was proposed as *Loxoconcha tosamodesta* (by Ishizaki, 1981, p. 65).]

***Loxoconcha nozokiensis* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, no. 1, p. 27, 28, Pl. 2, figs. 9a~c

Holotype: CC, IGPS 78895 (Pl. 2, fig. 9b), Paratypes: RV, IGPS 78894 (Pl. 2, fig. 9a); CC, IGPS 78896 (Pl. 2, fig. 9c)

Nishiichinose, W of Kanazawa-shi, Ishikawa Prefecture

Yatsuo Formation (Sunakosaka Member)

Miocene

***Loxoconcha optima* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 30, 31, Pl. 2, fig. 2, Pl. 6, figs. 8, 9

Holotype: CC, IGPS 90269 (Pl. 2, fig. 2, Pl. 6, figs. 8, 9)

St. 307 = Uranouchi Bay, Kochi Prefecture (33°24'17''N, 133°27'53''E) (coarse sand, depth 35 m)

Recent

***Loxoconcha orientalis* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 139, 140, Pl. 1, figs. 23, 25, 26, text-fig 11

Holotype: CKUM 3847, Paratypes: CKUM 3846; CKUM 3848~3852 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[Three figures (Pl. 1, figs. 23, 25 and 26) in the original description (Hu, 1978) cannot be correlated with each type specimen (CKUM 3846, 3847).]

***Loxoconcha oujiangensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological

Publishing House Press, Beijing, p. 148, Pl. 165, figs. 12~15
Holotype: CC, DJ 0028 (Pl. 165, fig. 12, 13), Paratypes: CC, DJ 0027 (Pl. 165, figs. 14, 15); CC, DJ 0029; CC, DJ 0030 (no figures)

East China Sea
Oujiang Formation
Early Eocene

***Loxoconcha ozawai* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 103, 104, Pl. 18, figs. 17~22, text-fig. 19-5

Holotype: RV female, UMUT CA 15924 (Pl. 18, figs. 17, 20, 22, text-fig. 19-5), Paratype: LV male, UMUT CA 15925 (Pl. 18, figs. 18, 19, 21)

Loc. OT5 = An exposure along the Otanizawa River, 4 km SE of Tsurugasaka railway station, Magonai, Aomori-shi, Aomori Prefecture (40°45'10"N, 140°39'00"E)

Daishaka Formation
Plio-Pleistocene

***Loxoconcha parapontica* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 89, 90, Pl. 6, figs. 4, 5, 6a, b, 7

Holotype: RV, JC-1415 (Pl. 6, fig. 4), Paratypes: RV, JC-1416 (Pl. 6, fig. 5); LV, JC-1417 (Pl. 6, figs. 6a, b); RV juvenile, JC-1418 (Pl. 6, fig. 7)

No. 32 (GH82-2) = Kumano-nada, ca. 20 km SSW of Daio-zaki, Mie Prefecture (34°04.7'N, 136°43.5'E) (silty clay, depth 670 m)

Recent

***Loxoconcha pashihaiensis* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 70, 71, Pl. 2, figs. 10, 11, 15, 16, 24, text-fig. 9

Holotype: TUM 4028, Paratypes: TUM 4029~4031

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan
Hungchun Limestone

Late Pleistocene / Holocene

[Five figures (Pl. 2, figs. 10, 11, 15, 16 and 24) in the original description (Hu, 1979) cannot be correlated with each type specimen (TUM 4028~4031).]

***Loxoconcha pleistocenica* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 141, 142, Pl. 1, figs. 1, 2, 5, 17, Pl. 4, fig. 24, text-fig 14

Holotype: RV, CKUM 3812 (Pl. 1, figs. 2, 5), Paratypes: CKUM 3808; CKUM 3809; CKUM 3810; CKUM 3811 (Pl. 1, fig. 1); CKUM 3813 (Pl. 1, fig. 17); CKUM 3814~3817 (no figures); CC, CKUM 3832 (Pl. 4, fig. 24)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation
Pleistocene

***Loxoconcha prolaeta* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 88, 89, Pl. 5, figs. 12a, b, 13

Holotype: CC, JC-1412 (Pl. 5, figs. 12a, b, 13)

YT-2 (KT92-2) = Ca. 14 km S off Kadokura-misaki, Tanegashima, Kagoshima Prefecture (30°10.3'N, 130°52.7'E) (coarse shelly sand, depth 96 m)

Recent

***Loxoconcha propontica* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 156, Pl. 2, figs. 8, 12, text-fig. 6

Holotype: TNUM 7132, Paratype: TNUM 7133

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan
Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Loxoconcha pulchra* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 31, Pl. 1, fig. 16, Pl. 7, figs. 19, 20

Holotype: RV, IGPS 90270 (Pl. 1, fig. 16, Pl. 7, fig. 20), Paratype: LV, IGPS 90271 (Pl. 7, fig. 19)

St. 212 = Uranouchi Bay, Kochi Prefecture (33°25'51"N, 133°24'51"E) (fine sand, depth 13 m)

Recent

***Loxoconcha saboyamensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 149, 150, Pl. 18, figs. 19, 20

Holotype: CC, IGPS 87022 (Pl. 18, fig. 20), Paratype: RV, IGPS 87021 (Pl. 18, fig. 19)

An exposure about 1,500 m SE of Saboyama, Sendai-shi, Miyagi Prefecture

Hatatate Formation
Miocene

***Loxoconcha shanhaiensis* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 76, 77, Pl. 3, figs. 5, 9, 11, text-figs. 13 A, B

Holotype: LV, TNUM 4148, Paratypes: LV, TNUM 4150; TNUM 4151, 4153 (no figures)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan
Hengchun Limestone

Pleistocene

[Two figures (Pl. 3, figs. 5, 9) in the original description (Hu, 1981a) cannot be correlated with each type specimen (TNUM 4148, 4150).]

***Loxoconcha sinensis* Brady, 1869**

Les Fonds de la Mer, v. 1, no. 1, p. 158, Pl. 16, figs. 17, 18

Lectotype: CC female, HMNT 1.58.01 (Pl. 2, figs. 3~5 in Whatley and Zhao, 1987), Paralectotypes: LV male, HMNT 1.46.41 (Pl. 2, fig. 2 in Whatley and Zhao, 1987); RV female,

HMNT 1.56.14 (Pl. 2, fig. 1 in Whatley and Zhao, 1987)
Hong Kong
Recent

***Loxoconcha subkotoriforma* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 150, Pl. 19, fig. 5
Holotype: LV, IGPS 87026 (Pl. 19, fig. 5)
A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture
Hatata Formation
Miocene

***Loxoconcha tamakazura* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 222, 223, Pl. 11, figs. 16, 17
Holotype: LV, UMUT CA 9903 (Pl. 11, fig. 17), Paratype: RV, UMUT CA 9904 (Pl. 11, fig. 16)
Loc. 120 = A cliff, along the Murata River, 2.4 km SE of Honda railway station, Ochi-shimoshinden, Ichihara-shi, Chiba Prefecture (35°31'30"N, 140°13'48"E)
Yabu Formation (Yabu Member)
Pleistocene

***Loxoconcha tata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 140, Pl. 1, figs. 16, 20, 24, 27, Pl. 4, fig. 12, text-fig 12
Holotype: RV, CKUM 3855 (Pl. 1, figs. 24, 27), Paratypes: CKUM 3853 (Pl. 1, fig. 16); CKUM 3854 (Pl. 1, fig. 20); CKUM 3856~3860 (no figures)
An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan
Toukoshan Formation
Pleistocene

***Loxoconcha tosaensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 31, 32, Pl. 2, fig. 3, Pl. 7, figs. 6~9
Holotype: LV, IGPS 90272 (Pl. 2, fig. 3, Pl. 7, fig. 6), Paratypes: RV, IGPS 90273 (Pl. 7, fig. 8); LV, IGPS 90274 (Pl. 7, fig. 7); RV, IGPS 90275 (Pl. 7, fig. 9)
St. 215 = Uranouchi Bay, Kochi Prefecture (33°25'58"N, 133°24'56"E) (sandy mud, depth 13 m)
Recent

***Loxoconcha tosamodesta* Ishizaki, 1981**

[See *Loxoconcha modesta* Ishizaki, 1968.]

***Loxoconcha uranouchiensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 32, Pl. 7, figs. 2, 3
Holotype: LV, IGPS 90276 (Pl. 7, fig. 3), Paratype: LV, IGPS 90277 (Pl. 7, fig. 2)
St. 78 = Uranouchi Bay, Kochi Prefecture (33°26'16"N,

133°24'54"E) (fine sand, depth 11 m)
Recent

***Loxoconcha viva* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 33, Pl. 7, figs. 12~14
Holotype: LV, IGPS 90278 (Pl. 7, fig. 13), Paratypes: RV, IGPS 90279 (Pl. 7, fig. 12); LV, IGPS 90280 (Pl. 7, fig. 14)
St. 79 = Uranouchi Bay, Kochi Prefecture (33°26'18"N, 133°24'47"E) (sandy mud, depth 11 m)
Recent

***Loxoconcha zamia* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 33, 34, Pl. 7, figs. 10, 11
Holotype: CC, IGPS 90281 (Pl. 7, figs. 10, 11)
St. 310 = Uranouchi Bay, Kochi Prefecture (33°26'00"N, 133°27'39"E) (coarse sand, depth 16 m)
Recent

***Loxocorniculum crispatum* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 144, Pl. 1, figs. 7, 11, 12, 14, Pl. 4, fig. 23, text-fig 17
Holotype: CKUM 3831, Paratypes: CKUM 3830; CKUM 3832; CKUM 3829, 3833~3837 (no figures)
Paratype: CC, CKUM 3831 (Pl. 1, figs. 7, 14); CKUM 3831a (Pl. 4, fig. 23)
An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan
Toukoshan Formation
Pleistocene

***Loxocorniculum kotoriformum* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 150, 151, Pl. 18, figs. 15, 16
Holotype: LV, IGPS 87024 (Pl. 18, fig. 16), Paratype: RV, IGPS 87025 (Pl. 18, fig. 15)
A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture
Hatata Formation
Miocene

***Loxocorniculum lienae* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 165, 167, Pl. 18, figs. 6, 7, 10, 11, 13, 14, text-fig. 5C
Holotype: LV, TNUM 11445 (Pl. 18, figs. 10, 13), Paratypes: 4 CC, TNUM 11441~11444 (Pl. 18, figs. 6, 7, 11, 14)
An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)
Tungshiao Formation (Nanwo Member)
Pleistocene

***Loxocorniculum malacrispatum* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 142~144, Pl. 1, figs. 3, 4, 6, 8, 9, 10, text-fig 16

Holotype: CKUM 3820, Paratypes: CC, CKUM 3818 (Pl. 1, fig. 3); CKUM 3819; CKUM 3821 (Pl. 1, fig. 9); CKUM 3822 (Pl. 1, fig. 10); CKUM 3823~3828 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[Three figures (Pl. 1, figs. 14, 6 and 8) in the original description (Hu, 1978) cannot be correlated with each type specimen (CKUM 3819, 3820).]

***Loxocorniculum mutsuense* Ishizaki, 1971**

[See *Loxocorniculum mutsuensis* Ishizaki, 1971.]

***Loxocorniculum mutsuensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 89, 90, Pl. 5, fig. 11, Pl. 6, figs. 3, 6, 7, Pl. 7, fig. 5

Holotype: LV male, IGPS 91571 (Pl. 6, fig. 7, Pl. 7, fig. 5), Paratypes: RV male, IGPS 91572 (Pl. 6, fig. 6); RV female, IGPS 91573 (Pl. 5, fig. 11, Pl. 6, fig. 3)

St. 26 = Aomori Bay, Aomori Prefecture (40°53'30''N, 140°51'21''E) (granules, depth 0.3 m)

Recent

[= *Loxocorniculum mutsuense* Ishizaki, 1971 (by Hanai *et al.*, 1977)]

***Loxocorniculum tumulosum* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 71, 72, Pl. 2, figs. 17, 21, 22, 26, 27, 30, 31, text-fig. 10

Holotype: TUM 4033, Paratypes: TUM 4034~4036; TUM 4065, 4066 (no figures)

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan
Hungchun Limestone

Late Pleistocene / Holocene

[Seven figures (Pl. 2, figs. 17, 21, 22, 26, 27, 30 and 31) in the original description (Hu, 1979) cannot be correlated with each type specimen (TUM 4033~4036).]

***Loxocythere inflata* Hanai, 1959**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 11, pt. 4, p. 414~416, Pl. 28, figs. 4a, b, text-figs. 1a, b

Holotype: RV, UMUT CA 3346 (Pl. 28, fig. 4a), Paratypes: LV, UMUT CA 3347 (Pl. 28, fig. 4b, text-fig. 1a); RV, UMUT CA 3348 (text-fig. 1b); LV, UMUT CA 3349

The cliff at Mano Bay, Sawane-machi, Sado-gun, Niigata Prefecture

Sawane Formation

Pliocene

***Macrocypris pacifica* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 76, Pl. 3, figs. 13, 16, text-figs. 14A, B, E, F

Holotype: TUM 4050 (Pl. 1, figs. 13, 16)

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan
Hungchun Limestone

Late Pleistocene / Holocene

***Manawa konishii* Nohara, 1976**

Geol. Stud. Ryukyu Islands, v. 1, p. 76, Pl. 1, figs. 1~3

Holotype: LV, RUEG 36 (no figures), Paratypes: LV, RUEG 37 (Pl. 1, fig. 1); LV, RUEG 38 (Pl. 1, fig. 2); LV, RUEG 39 (Pl. 1, fig. 3)

Loc. 7592502 = Ca. 1.5 km WNW of Asato, Gushikami-son, Shimajiri-gun, Okinawa Prefecture (26°07'18''N, 127°43'10''E)

Chinen Formation (Chinen Sand Member)

Pleistocene

***Megacythere taiwanica* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 104, Pl. 2, figs. 14, 20, 21, 24, text-fig. 25

Holotype: TNUM 7029, Paratypes: TNUM 7028; TNUM 7030

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Four figures (Pl. 2, figs. 14, 20, 21, 24) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7028~7030).]

***Melavargula japonica* Poulsen, 1962**

Dana-Report, Copenhagen, Carlsberg, Fdn., v. 57, p. 225~228, text-figs. 106, 107

Holotype: male, ZMUC-collection, Paratypes: about 30 males and females, ZMUC-collection

Misaki, Miura-shi, Kanagawa Prefecture (shallow water)

Recent

***Microcythere cuneata* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 189~191, text-fig. 29

Holotype: CC male, FESC 428~429, Paratype: 3 females, 1 male (no number)

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (text-fig. 29) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Microcythere devexa* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 192~194, text-fig. 31

Holotype: CC male, FESC 432~433, Paratype: 4 males, 16 females (no numbers)

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (text-fig. 31) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Microcythere littoralis* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 189, text-fig. 28

Holotype: CC male, FESC 426~427, Paratype: 100 females, 7 males, instars (no numbers)

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Island, Kuril Islands

Recent

[The figures (text-fig. 28) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Microcythere robusta* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 191, text-fig. 30

Holotype: CC male, FESC 430~431, Paratype: 3 females, 2 males (no numbers)

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (text-fig. 30) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Microcythere rotundata* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 186~189, text-fig. 27

Holotype: CC male, FESC 424~425, Paratype: 3 females, 20 males (no numbers)

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Island, Kuril Islands

Recent

[The figures (text-fig. 27) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Microloxoconcha kushiroensis* Hiruta, 1989**

Proc. Japan Soc. Syst. Zool., no. 39, p. 30~36, figs. 1-1~4, 2-1~11, 3-1~10

Holotype: CC male with appendages, ZIHU 2246 (figs. 1-1, 2, 2-1~5, 10, 3-1~5, 7), Allotype: CC female with appendages, ZIHU 2247 (figs. 1-3, 4, 3-8), Paratypes: CC female with

appendages, ZIHU 2248 (no figures); CC female with appendages, ZIHU 2249 (no figures); CC female with appendages, ZIHU 2250 (figs. 2-11, 3-9, 10); CC female with appendages, ZIHU 2251 (no figures); CC male with appendages, ZIHU 2252 (no figures); CC male with appendages, ZIHU 2253 (figs. 2-8, 9, 3-6); CC male with appendages, ZIHU 2254 (fig. 2-7); CC male with appendages, ZIHU 2255 (no figures); CC male with appendages, ZIHU 2256 (fig. 2-6)

The intertidal zone of Mataitoki, near Kushiro-shi, Hokkaido (42° 56.3'N, 144° 29.3'E) (sand, depth 20~50 cm)

Recent

Miia Ishizaki, 1968

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 34, 35

Type species: *Miia uranouchiensis* Ishizaki, 1968

***Miia uranouchiensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 35, Pl. 2, figs. 5, 6, Pl. 6, figs. 21, 22

Holotype: LV, IGPS 90286 (Pl. 2, fig. 5, Pl. 6, fig. 22), Paratype: RV, IGPS 90287 (Pl. 2, fig. 6, Pl. 6, fig. 21)

St. 159 = Uranouchi Bay, Kochi Prefecture (33° 26' 20''N, 133° 27' 32''E) (fine sand, depth 16 m)

Recent

***Miocyprideis phuketensis* Malz and Ikeya, 1986**

Rep. Fac. Sci., Shizuoka Univ., v. 20, p. 179, 180, Pl. 3, figs. 4, 5a~c, 6~9

Holotype: RV female, SMF Xe 13297 (Pl. 3, figs. 5a~c), Paratypes: CC female, SMF Xe 13298 (Pl. 3, figs. 4, 8); CC female, SMF Xe 13299 (Pl. 3, fig. 6); CC male, SMF Xe 13300 (Pl. 3, figs. 7, 9); IGSU-O-429 (no figures)

Near the Marine Biological Center at Phuket, Ko Phuket Island, W of Malay Peninsula, Thailand (7° 47.5'N, 98° 23.9'E) (muddy shell sand, depth 12 m)

Recent

***Monoceratina dipleura* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 201, 202, Pl. 3, figs. 4~7, text-fig. 12

Holotype: RV, CKUM 3121 (Pl. 3, figs. 4, 5), Paratypes: CKUM 3122 (Pl. 3, fig. 6); CC, CKUM 3123 (Pl. 3, fig. 7); CKUM 3124~3130 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

[=*Bythoceratina dipleura* (Hu and Cheng, 1977) (by Hu, 1986)]

***Moosella tomokoae* (Ishizaki, 1968)**

[See *Leguminocythereis tomokoae* Ishizaki, 1968.]

***Morkhovenia rimosa* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 72, Pl. 1, figs. 18, 19, text-fig. 8

Holotype: CC, TNUM 4111 (Pl. 1, figs. 18, 19)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan
Hengchun Limestone

Pleistocene

***Munseyella chinzeii* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 72, Pl. 3, figs. 4a, b, 5, 6

Holotype: RV, JC-1370 (Pl. 3, figs. 4a, b), Paratypes: LV, JC-1371 (Pl. 3, fig. 5); RV, JC-1372 (Pl. 3, fig. 6)

No. 32 (GH82-2) = Kumano-nada, ca. 20 km SW off Daio-zaki, Mie Prefecture (34° 04.7'N, 136° 43.5'E) (silty clay, depth 670 m)

Recent

***Munseyella hatatatensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 153, Pl. 19, figs. 12

Holotype: RV, IGPS 87030 (Pl. 19, fig. 12)

An exposure about 1, 500 m SE of Saboyama, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Munseyella hokkaidoana* (Hanai, 1957)**

[See "*Toulminia*" *hokkaidoana* Hanai, 1957.]

***Munseyella japonica* (Hanai, 1957)**

[See "*Toulminia*" *japonica* Hanai, 1957.]

***Munseyella oborozukiyo* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 188, 189, Pl. 10, figs. 9, 12

Holotype: RV, UMUT CA 9819 (Pl. 10, fig. 9), Paratype: LV, UMUT CA 9820 (Pl. 10, fig. 12)

Loc. 66 = A small exposure, 4.5 km SSE of Anegasaki railway station, Ichihara-shi, Chiba Prefecture (35° 26'20"N, 140° 03'30"E)

Kioroshi Formation (Toyonari Member)

Pleistocene

***Munseyella simplex* Chen, 1990**

Acta Micropalaeontologica Sinica, v. 7, no. 4, p. 374, Pl. 1, figs. 7, 8

Holotype: CC, 111226 (Pl. 1, figs. 7, 8)

Hole W6-1-1 (core) = 160 km E of Wenzhou City, SW of East China Sea (27° 50'N, 122° 50'E)

Lower Wenzhou Formation

Middle Eocene

***Munseyella v-costata* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 45, 46, Pl. 3, figs. 1~3, 14, text-fig. 16

Holotype: CKUM 2000 (Pl. 3, figs. 1, 2), Paratypes: CKUM 2001 (Pl. 3, figs. 3, 14); CKUM 2002 (no figures)

Loc. 6 (2.5 km NW of Erhping station) or 13 (2.5 km SE of Tsaochiao station) = Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Munseyella japonica* (Hanai, 1957) (by Hu, 1986)]

***Murrayina japonica* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 86, 87, Pl. 12, figs. 3~8, text-fig. 19-1

Holotype: RV, UMUT CA 15860 (Pl. 12, figs. 3, 6, 8, text-fig. 19-1), Paratype: LV, UMUT CA 15861 (Pl. 12, figs. 4, 5, 7)

Loc. SW2 = An exposure along the Sawauchizawa River, 3.6 km N of Daishaka railway station, Namioka-machi, Minami-Tsugaru-gun, Aomori Prefecture (40° 47'13"N, 140° 35'14"E)

Daishaka Formation

Plio-Pleistocene

[Sample horizon = 17 m above the top surface of Key tuff bed (DT-5)]

***Mutilus ishizakii* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 5/6, p. 405, 408, figs. 6a~i, 7c, d, 11e~g

Holotype: CC male with appendages, MO 818 (=NSMT-Cr 15289) (figs. 6a~i, 7c, d), Allotype: CC female, MO 819 (no figures) (the specimen missing), Paratypes: CC male, MO 1035 (figs. 11e, f) (the specimen missing); LV female, MO 1036 (fig. 11g) (the specimen missing)

St. 10 = The intertidal zone, rocky shore, Iwaya, Kurashiki-shi, Okayama Prefecture (34° 29.4'N, 133° 37.5'E)

Recent

[=*Robustaurila ishizakii* (Okubo, 1980) (by Ikeya and Kashima, 1988)]

***Mutilus kianbesani* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 73, 75, Pl. 3, figs. 12, 24, text-fig. 10

Holotype: TNUM 4158, Paratype: TNUM 4157, Holotype: TNUM 4157 (Pl. 3, fig. 24), Paratype: TNUM 4157a (Pl. 3, fig. 12)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Mutilus kianohybridus* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 187~189, Pl. 4, figs. 21, 26, text-fig. 9

Holotype: CC, TNUM 7283 (Pl. 4, figs. 21, 26)

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

[=*Robustaurila kianohybrida* (Hu, 1982) (by Hino and Ikeya, 1990)]

***Neocytherura taiwanica* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 136, 137, Pl. 3, figs. 5, 10, 12, text-fig. 8

Holotype: CKUM 3796 (Pl. 3, fig. 12), Paratypes: CC, CKUM 3794 (Pl. 3, fig. 5); CKUM 3795 (Pl. 3, fig. 10); CKUM 3800 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

Neocyprideis Hanai, 1959

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 299, 300

Type species: *Neocyprideis pseudadonta* Hanai, 1959

[=Junior homonym of *Neocyprideis* Apostolescu, 1956. The new name, *Parakerithella* was proposed for *Neocyprideis* Hanai, 1959 by Hanai, 1959b, p. 418.]

***Neocyprideis periformis* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 75, 76, Pl. 10, figs. 18, 20, 29, text-fig. 7

Holotype: CC, TNUM 8211, Paratype: CC, TNUM 8212

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[Three figures (Pl. 10, figs. 18, 20, 29) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8211, 8212).]

***Neocyprideis pseudadonta* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 3, p. 300, Pl. 17, figs. 5~9, text-figs. 2a, b

Holotype: CC female, UMUT CA 2901 (Pl. 17, figs. 5a~5d, text-figs. 2a, b), Allotype: CC male, UMUT CA 2902 (Pl. 17, figs. 7a, b), Paratypes: CC immature form, UMUT CA 2903 (Pl. 17, figs. 8a~8d); CC female, UMUT CA 2904 (Pl. 17, figs. 6a, b); CC female, UMUT CA 2905 (Pl. 17, fig. 9)

The shore in front of the Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Parakrithella pseudadonta* (Hanai, 1959) (by Hanai,

1959b)]

***Neocytheretta aculeata* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 111, 112, Pl. 2, figs. 7, 12

Holotype: CC, CKUM 1042 (Pl. 2, figs. 7, 12), Paratype: CKUM 1043 (no figures)

Mc-1 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

***Neocytheretta branchia* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 200, 201, Pl. 3, figs. 12~15, text-fig. 11

Holotype: CKUM 3101 (Pl. 3, fig. 12), Paratypes: RV, CKUM 3102 (Pl. 3, fig. 13); LV, CKUM 3103 (Pl. 3, fig. 14); CC, CKUM 3104 (Pl. 3, fig. 15); CKUM 3105~3115 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

***Neocytheretta formosana* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 81, 82, Pl. 2, figs. 25, 28~30, text-fig. 19

Holotype: CC, TNUM 4142 (Pl. 2, figs. 29, 30), Paratypes: RV, TNUM 4140 (Pl. 2, fig. 25); RV, TNUM 4141 (Pl. 2, fig. 28)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Neocytherideis aoi* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 185, 186, Pl. 10, figs. 1~6, text-figs. 13-3, 4

Holotype: LV female, UMUT CA 9805 (Pl. 10, fig. 4, text-fig. 13-3), Paratypes: RV female, UMUT CA 9806 (Pl. 10, fig. 2, text-fig. 13-4); RV male, UMUT CA 9807 (Pl. 10, fig. 1); CC male, UMUT CA 9808 (Pl. 10, fig. 5); CC female, UMUT CA 9809 (Pl. 10, fig. 6); RV female, UMUT CA 9810 (Pl. 10, fig. 3)

Loc. 189 = An exposure, 3.5 km SSE of Kobayashi railway station, Imba-mura, Imba-gun, Chiba Prefecture (35°47'52''N, 140°12'38''E)

Kioroshi Formation (Kioroshi Member)

Pleistocene

***Neocytherideis punctata* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 44, 45, Pl. 2, figs. 13a, 13b, 14a, 14b, 15~17, Pl. 6, fig. 11, Pl. 7, fig. 2; text-figs. 14a, b

Holotype: CC, IGSU-O-18 (Pl. 2, figs. 16, 17), Paratypes: CC, IGSU-O-17 (Pl. 2, figs. 13a, 13b, 14a, 14b, 15, Pl. 6, fig. 11, Pl. 7, fig. 2); CC, IGSU-O-71 (text-figs. 14a, b)
 St. 52 = Off Enshu-nada, 2 km W of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34° 40'22"N, 137° 34'48"E) (well-sorted medium sand, depth 5.6 m)
 Recent

***Neomonoceratina crispata* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 27, 28, Pl. 1, figs. 1~5, text-fig. 2

Holotype: RV, CKUM 2048 (Pl. 1, figs. 3, 4), Paratypes: LV, CKUM 2049 (Pl. 1, figs. 1, 2); CKUM 2050 (Pl. 1, fig. 5)

Loc. 13 or 14 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miadi city, Taiwan

Cholan Formation

Upper Pliocene

***Neomonoceratina delicata* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micro-paleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 136, 138, Pl. 3, figs. 7~10, Pl. 4, figs. 1~3, text-fig. 8

Holotype: LV, IGPS 91733 (Pl. 3, figs. 8~10), Paratypes: RV, IGPS 91732 (Pl. 3, fig. 7); RV, IGPS 91731 (Pl. 4, figs. 1, 2); LV, IGPS 91734 (Pl. 4, fig. 3, text-fig. 8)

Loc. 10 = A cliff, N of Sagara-cho, 375 m NE of Kitahara Post Office, Asahinabara, Hamaoka-cho, Ogasa-gun, Shizuoka Prefecture

Furuya Formation

Pleistocene

[Sample horizon 10B= Ca. 2 m below the top of Furuya Fm.]

***Neomonoceratina diptera* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 108, Pl. 1, figs. 19, 20

Holotype: CC, CKUM 1017 (Pl. 1, figs. 19, 20), Paratypes: CKUM 1018, 1019 (no figures)

Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

***Neomonoceratina donghaiensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 149, 150, Pl. 166, figs. 6~9

Holotype: CC, DJ 0055a (Pl. 166, figs. 6, 7), Paratypes: CC, DJ 0055b (Pl. 166, figs. 8, 9); CC, DJ 0052; CC, DJ 0053 (no figures)

East China Sea

Lingfeng Formation

Paleocene

[=*Paijenborchella donghaiensis* (Liu, 1989) (by Yang *et al.*, 1990)]

***Neomonoceratina hatatatensis* (Ishizaki, 1966)**

[See *Paijenborchella hatatatensis* Ishizaki, 1966.]

***Neomonoceratina japonica* (Ishizaki, 1966)**

[See *Paijenborchella japonica* Ishizaki, 1966.]

***Neomonoceratina optima* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 149, 150, Pl. 166, figs. 6~9

Holotype: CC, DJ 0055a (Pl. 166, figs. 6, 7), Paratypes: CC, DJ 0055b (Pl. 166, figs. 8, 9); CC, DJ 0052; CC, DJ 0053 (no figures)

East China Sea

Lingfeng Formation

Paleocene

[= *Paijenborchella optima* (Liu, 1989) (by Yang *et al.*, 1990).]

***Neomonoceratina parva* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 150, Pl. 166, figs. 2, 3

Holotype: CC, DJ 0099 (Pl. 166, figs. 2, 3)

East China Sea

Lingfeng Formation

Paleocene

***Neonesidea hanaii* Yajima, 1987**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 146, p. 60, figs. 5-1, 2, 11-1a, b, 2a, b

Holotype: LV, UMUT CA 17979 (figs. 5-1, 11-1a, b), Paratype: RV, UMUT CA 17980 (figs. 5-2, 11-2a, b)

Loc. 1103 = An outcrop of Takamatsu, Atsumi-gun, Aichi Prefecture (34° 37'30"N, 137° 15'38"E)

Tahara Formation (Toshima Sand Member)

Pleistocene

[Sample horizon 1103 = Ca. 4 m above the base of Tonna Bed]

***Neonesidea mutsuensis* (Ishizaki, 1971)**

[See *Bairdia mutsuensis* Ishizaki, 1971.]

Neonesidea oligodentata* (Kajiyama, 1913)**[See *Bairdia oligodentata* Kajiyama, 1913.]Neonesidea posteroacuta* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 65, 66, Pl. 1, figs. 4a~c, 5a, b, 6

Holotype: LV, JC-1354 (Pl. 1, figs. 4a~c), Paratypes: LV, JC-1355 (Pl. 1, figs. 5a, b); CC, JC-1356 (Pl. 1, fig. 6)

No. 56 (GH84-3) = Ca. 36 km SE off Misaki, Tanegashima, Kagoshima Prefecture (30° 33.4'N, 131° 16.2'E) (muddy-fine to medium sand, depth 444 m)

Recent

Neopellucistoma Ikeya and Hanai, 1982

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 55, 56

Type species: *Neopellucistoma inflatum* Ikeya and Hanai, 1982***Neopellucistoma inflatum* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 56~58, Pl. 6, figs. 5a, 5b, 6a, 6b, 7~10, Pl. 7, fig. 6, text-fig. 19

Holotype: CC female, IGSU-O-35 (Pl. 6, figs. 5a, 5b, 6a, 6b, 7, 8, 10, Pl. 7, fig. 6), Paratypes: CC, IGSU-O-36 (Pl. 6, fig. 9); CC, IGSU-O-67 (text-figs. 19a, b)

St. 53 = Off Enshu-nada, 1.5 km SW of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34° 39'59"N, 137° 34'09"E) (well-sorted fine sand, depth 13.2 m)

Recent

***Nereina japonica* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 143, 144, Pl. 19, figs. 1~4, text-fig. 1, figs. 3, 4

Holotype: LV, IGPS 87036 (Pl. 17, fig. 4, text-fig. 1, fig. 3), Paratypes: LV, IGPS 87034 (Pl. 19, fig. 2); RV, IGPS 87035 (Pl. 19, fig. 1); RV, IGPS 87038 (Pl. 17, fig. 3, text-fig. 1, fig. 4)

An exposure S of Yamada, Soma-mura, Nakatsugaru-gun, Aomori Prefecture

Higashimeya Formation

Pliocene

[= *Finmarchinella japonica* (Ishizaki, 1966) (by Hanai et al., 1977)]***Nipponocythere* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 88

Type species: *Nipponocythere asamushiensis* Ishizaki, 1971***Nipponocythere asamushiensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 89, Pl. 1, fig. 1, Pl. 5, figs. 7, 12, 13, Pl. 6, fig. 2, Pl. 7, figs. 8, 11

Holotype: RV male, IGPS 91567 (Pl. 5, fig. 13, Pl. 7, figs. 8, 11), Paratypes: LV, IGPS 91568 (Pl. 5, fig. 12, Pl. 6, fig. 2); RV, IGPS 91569 (Pl. 1, fig. 1, Pl. 5, fig. 7)

Aomori Bay, Aomori Prefecture

Recent

[= *Nipponocythere bicarinata* (Brady, 1880) (by Hanai et al., 1977)]***Nipponocythere bicarinata* (Brady, 1880)**[See *Cythere bicarinata* Brady, 1880.]***Nipponocythere delicata* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micro-paleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 134, 136, Pl. 3, figs. 2~6

Holotype: LV, IGPS 91742 (Pl. 3, figs. 2, 3), Paratypes: RV male, IGPS 91741 (Pl. 3, fig. 6); LV female, IGPS 91743 (Pl. 3, figs. 4, 5)

Loc. 13 = A cliff, E of Hamaoka-cho, 750 m NW of Yokofune Elementary School, Asahina, Hamaoka-cho, Ogasa-gun, Shizuoka Prefecture

Furuya Formation

Pleistocene

[Sample horizon 13B = Ca. 5 m below the top of Furuya Fm.]

***Nipponocythere parva* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 148, Pl. 165, fig. 6

Holotype: CC, DJ 0062 (Pl. 165, fig. 6)

East China Sea

Oujiang Formation

Early Eocene

***Nipponocythere punctata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 137, 138, Pl. 3, figs. 24, 28, text-fig 10

Holotype: CKUM 3798, Paratype: CKUM 3799

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[Two figures (Pl. 3, figs. 24 and 28) in the original description (Hu, 1978) cannot be correlated with each type specimen (CKUM 3798, 3799).]

***Nodobythere cristata* Schornikov, 1987**

Zool. Jour., v. 66, no. 7, p. 997, 999, figs. 1, 2-1~7

Holotype: CC male, FESC 1779 (figs. 1, 2-1~5), Paratypes: 2 females, 1 juvenile (A-1 Stage), 2 juveniles (A-4 Stage) (no numbers)

Off Urup Island, Kuril Islands (46° 06.5'N, 150° 07.5'E) (depth 100 m)

Recent

[The figures (figs. 2-6, 7) in the original description (Schornikov, 1987) cannot be correlated with each type specimen.]

***Nodosocosta* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 101

Type species: *Costa costa* Hu, 1977

***Nodosocosta costa* (Hu, 1977)**

[See *Nodosocosta costa* Hu, 1977.]

***Normanicocythere japonica* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 69, 70, Pl. 8, figs. 11~14, Pl. 9, figs. 1, 3

Holotype: RV female, UMUT CA 15774 (Pl. 8, figs. 11, 13, Pl. 9, fig. 3), Paratypes: RV male, UMUT CA 15775 (Pl. 8, figs. 12, 14); RV immature form, UMUT CA 15776 (Pl. 9, fig. 1); LV immature form, UMUT CA 15777 (Pl. 9, fig. 2)

Loc. SH1 = An exposure along riverbed of the Shoheizu River, 5 km E of Namioka railway station, Kita-nakano-kaitaku, Namioka-machi, Minami-Tsugaru-gun, Aomori Prefecture (40°42'45"N, 140°38'30"E)

Daishaka Formation

Plio-Pleistocene

***Obesostoma obesum* (Schornikov, 1974)**

[See *Paradoxostoma obesum* (Schornikov, 1974).]

***Oliganisus muratai* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 36, Pl. 1, figs. 8a~c

Holotype: RV, IGPS 78401 (Pl. 1, fig. 8a), Paratypes: LV, IGPS 78397 (Pl. 1, fig. 8c); RV, IGPS 78399 (Pl. 1, fig. 8b)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Orionina elongata* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 38, 39, Pl. 3, figs. 4, 12, 20, 21, text-fig. 10

Holotype: CC, CKUM 2012 (Pl. 3, figs. 20, 21), Paratype: RV, CKUM 2013 (Pl. 3, figs. 4, 12)

Loc. 14 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[= *Orionina* ? *elongata* Hu, 1976 (by Hanai *et al.*, 1980)]

***Orlovibairdia formosana* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 85, Pl. 2, figs. 9, 10, text-fig. 4

Holotype: LV, TNUM 7026 (Pl. 2, figs. 9, 10)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Orthonotacythere sinensis* Yang, 1990**

Acta Micropalaeontologica Sinica, v. 7, no. 4, p. 372, Pl. 3, figs. 16, 17

Holotype: CC, 111250 (Pl. 3, figs. 16, 17)

Hole W6-1-1 (core) = 160 km E of Wenzhou City, SW of East China Sea (27°50'N, 122°50'E)

Lower Wenzhou Formation

Middle Eocene

***Pacambocythere* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 385

Type species: *Pacambocythere cytherelloidae* Malz, 1982

***Pacambocythere buntoniae* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 387, Pl. 3, figs. 12~18, table 2

Holotype: CC male, SMF Xe 12308 (Pl. 3, fig. 17), Paratypes: LV female, SMF Xe 12309a (Pl. 3, figs. 12a, b); CC male, SMF Xe 12309b (Pl. 3, fig. 15); RV female, SMF Xe 12309c (Pl. 3, figs. 16a, b); CC male, SMF Xe 12310a (Pl. 3, fig. 13); RV female, SMF Xe 12310b (Pl. 2, fig. 14); LV female, SMF Xe 12310c (Pl. 2, fig. 18); SMF Xe 12311~12315 (no figures)

Toukou, near Tsailuhsian, SW Taiwan

Szekou Formation

Pleistocene

10.5

***Pacambocythere cytherelloidae* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 386, 387, Pl. 2, figs. 4~10, table 2

Holotype: CC female, SMF Xe 12265 (Pl. 2, fig. 6), Paratypes: LV female, SMF Xe 12266 (Pl. 2, fig. 7); LV female, SMF Xe 12267 (Pl. 2, fig. 4); RV female, SMF Xe 12268a (Pl. 2, fig. 8); LV female, SMF Xe 12268b (Pl. 2, fig. 9); LV male, SMF Xe 12269a (Pl. 2, fig. 5); RV male, SMF Xe 12269b (Pl. 2, fig. 10); SMF Xe 12270~12272 (no figures)

SSW of Maanshan, SW Taiwan

Maanshan Formation

Pleistocene

***Pacambocythere ishizakii* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 46, Pl. 2, figs. 3a~c

Holotype: RUEG 120 (no figures), Paratype: RV, RUEG 121 (Pl. 2, figs. 3a~c)

Loc. 76121501A = Ca. 500 m SE of Shinzato, Sashiki-cho, Shimajiri-gun, Okinawa Prefecture (Type locality of Shinzato Formation) (26°9'40"N, 127°46'36"E)

Shinzato Formation

Pliocene

[Sample horizon = Ca. 5 m below the base of the upper most carbonized woods bed (bluish gray silt)]

***Pacambocythere japonica* (Ishizaki, 1968)**

[See *Ambocythere japonica* Ishizaki, 1968.]

***Pacambocythere humilitorus* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 387, 388, Pl. 1, fig. 3, Pl. 4, figs. 19–23, Pl. 5, figs. 24–27, table 2

Holotype: CC female, SMF Xe 12243 (Pl. 5, fig. 27), Paratype: LV female, SMF Xe 12328a (Pl. 4, fig. 20); RV female, SMF Xe 12328b (Pl. 1, figs. 3a–c, Pl. 4, figs. 22a, b); LV female, SMF Xe 12329a (Pl. 4, figs. 23a, b); CC female, SMF Xe 12329b (Pl. 5, fig. 26); RV male, SMF Xe 12329c (Pl. 5, fig. 25); CC female, SMF Xe 12329d (Pl. 5, fig. 26); RV female, SMF Xe 12330a (Pl. 4, fig. 19); CC female, SMF Xe 12330b (Pl. 4, fig. 21); RV female, SMF Xe 12331 (Pl. 5, fig. 24); SMF Xe 12332, 12333 (no figures)

SSW of Maanshan, SW Taiwan

Maanshan Formation

Pleistocene

***Pacambocythere mediopunctata* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 388, 389, Pl. 5, figs. 28–33, table 2

Holotype: CC female, SMF Xe 12285 (Pl. 5, fig. 33), Paratypes: LV female, SMF Xe 12286 (Pl. 5, fig. 29); RV female, SMF Xe 12287a (Pl. 5, fig. 28); LV male, SMF Xe 12287b (Pl. 5, fig. 31); RV female, SMF Xe 12288a (Pl. 5, fig. 30); LV female, SMF Xe 12288b (Pl. 5, fig. 32); SMF Xe 12289–12298 (no figures)

SSW of Maanshan, SW Taiwan

Maanshan Formation

Pliocene

***Pacambocythere semifacta* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 389, 390, Pl. 6, figs. 39–42, table 2

Holotype: LV male, SMF Xe 12299 (Pl. 6, fig. 41), Paratypes: RV male, SMF Xe 12300 (Pl. 6, fig. 40); RV female, SMF Xe 12301a (Pl. 6, fig. 39); LV female, SMF Xe 12301b (Pl. 6, fig. 42); SMF Xe 12302–12307 (no figures)

SSW of Maanshan, SW Taiwan

Maanshan Formation

Pliocene

***Pacambocythere similis* Malz, 1982**

Senckenbergiana lethaea v. 63, nos. 5/6, p. 389, Pl. 5, fig. 34, Pl. 6, figs. 35–38, table 2

Holotype: CC female, SMF Xe 12316 (Pl. 5, fig. 34), Paratypes: RV female, SMF Xe 12317a (Pl. 6, fig. 35);

LV female, SMF Xe 12317b (Pl. 6, fig. 37); RV male, SMF Xe 12318a (Pl. 6, fig. 36); LV male, SMF Xe 12318b (Pl. 6, fig. 38); SMF Xe 12319–12327 (no figures)

SSW of Maanshan, SW Taiwan

Maanshan Formation

Pliocene

***Paijenborchella alata* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 152, Pl. 167, fig. 7

Holotype: RV, DJ 0046 (Pl. 167, fig. 7)

East China Sea

Oujiang Formation

Early Eocene

***Paijenborchella convernosa* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 152, Pl. 167, figs. 5, 6

Holotype: CC, DJ 0047 (Pl. 167, figs. 5, 6)

East China Sea

Oujiang Formation

Early Eocene

***Paijenborchella favosa* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 153, Pl. 168, figs. 5–8

Holotype: RV, DJ 0050a (Pl. 168, fig. 5), Paratypes: LV, DJ 0050b (Pl. 168, fig. 6); RV, DJ 0050c (Pl. 168, fig. 7); LV, DJ 0050d (Pl. 168, fig. 8)

East China Sea

Oujiang Formation

Early Eocene

***Paijenborchella oujiangensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 152, 153, Pl. 168, figs. 1–4

Holotype: CC, DJ 0049 (Pl. 168, figs. 1, 2), Paratype: CC, DJ 0044 (Pl. 168, figs. 3, 4)

East China Sea

Oujiang Formation

Early Eocene

***Paijenbochella paica* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 115, 117, Pl. 12, figs. 1~5, 7, 8, text-fig. 5B

Holotype: CC female, TNUM 11285 (Pl. 12, fig. 5), Paratypes: 3 CC males, TNUM 11281~11283 (Pl. 12, figs. 1, 2, 4); CC, TNUM 11284 (Pl. 12, fig. 3); CC female, TNUM 11286 (Pl. 12, fig. 8); LV, TNUM 11287 (Pl. 12, fig. 7)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24° 37.7'N, 120° 45.1'E)

Tungshiao Formation (Nanwo Member)

Pleistocene

***Paijenborchella dissecta* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 187, figs. 26-20, 23, 25, 27, 28, text-fig. 5

figured specimens: CKUM 3507-3513

unfigured specimens: CKUM 3514-3516

Holotype: RV, CKUM 3613 (figs. 26-25, 28), Paratypes: CKUM 3611 (fig. 26-20); CKUM 3612 (figs. 26-27); CKUM 3614 (figs. 26-23)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Paijenborchella formosana* Hu, 1976 (by this paper). When *Paijenborchella formosana* was proposed by Hu (1976), he figured an internal view (Pl. 1, fig. 15) and an external view (Pl. 1, fig. 20) of the same specimen as the holotype specimen (CKUM 2021=LV). In Hu (1986), however, he identified Pl. 1, fig. 20 with *P. formosana* Hu, 1976, and Pl. 1, fig. 15 with *P. dissecta* Hu, 1977. *P. dissecta* was proposed after *P. formosana*, therefore, *P. dissecta* is recognized as the synonym of *P. formosana*.]

***Paijenborchella donghaiensis* (Liu, 1989)**

[See *Neomonoceratina donghaiensis* Liu, 1989.]

***Paijenborchella formosana* Hu, 1976**

Proc. Geol. Soc. China, no. 19, P. 28, 29, Pl. 1, figs. 15, 18~20, text-fig. 3

Holotype: LV, CKUM 2021 (Pl. 1, figs. 15, 20), Paratypes: CKUM 2022; CKUM 2023; CKUM 2024, 2025 (no figures)

Loc. 13 or 14 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[Two figures (Pl. 1, figs. 18 and 19) in the original description (Hu, 1976) cannot be correlated with each type specimen (CKUM 2022, 2023).]

***Paijenborchella hanaii* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 67, 68, Pl. 3, figs. 3~10, text-fig. 18-5

Holotype: RV female, UMUT CA 15768 (Pl. 3, figs. 3, 8, 10), Paratypes: LV female, UMUT CA 15769 (Pl. 3, figs. 4, 7, 9);

RV male, UMUT CA 15770 (Pl. 3, fig. 5, text-fig. 18-5); LV immature form, UMUT CA 15771 (Pl. 3, fig. 6)

Loc. OT1 = An exposure along the Otanizawa River, 4 km SE of Tsurugasaka railway station, Magonai, Aomori-shi, Aomori Prefecture (40° 45' 10''N, 140° 39' 08''E)

Daishaka Formation

Plio-Pleistocene

***Paijenborchella hatatensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 154, 155, Pl. 19, figs. 16, 17

Holotype: LV, IGPS 87039 (Pl. 19, fig. 17), Paratype: RV, IGPS 87040 (Pl. 19, fig. 16)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

[=*Neomonoceratina hatatensis* (Ishizaki, 1966) (by Hanai *et al.*, 1977)]

***Paijenborchella japonica* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 155, 156, Pl. 19, figs. 14, 15

Holotype: LV, IGPS 87041 (Pl. 19, fig. 14), Paratype: RV, IGPS 87042 (Pl. 19, fig. 15)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

[=*Neomonoceratina japonica* (Ishizaki, 1966) (by Hanai *et al.*, 1977)]

***Paijenborchella miurensis* Hanai, 1970**

Jour. Paleont., v. 44, no. 4, p. 725, 726, Pl. 107, fig. 2, Pl. 108, figs. 2a~e, text-figs. 7C, D, 11H

Holotype: CC female, UMUT CA 3834 (Pl. 108, figs. 2c, d), Paratypes: UMUT CA 3833, CC female, UMUT CA 3835 (Pl. 108, fig. 2e); LV male, UMUT CA 3836 (Pl. 108, fig. 2b);

RV male, UMUT CA 3837 (Pl. 108, fig. 2a)

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Hanaiborchella miurensis* (Hanai, 1970) (by Ikeya and Itoh, 1991)]

***Paijenborchella optima* (Liu, 1989)**

[See *Neomonoceratina optima* Liu, 1989.]

***Paijenborchella shiocumbatzui* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 86, 87, Pl. 5, fig. 17, text-fig. 19

Holotype: CC, TNUM 8180 (Pl. 5, fig. 17)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Paijenborchella sinensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 151, Pl. 167, figs. 1, 2

Holotype: CC, DJ 0042 (Pl. 167, figs. 1, 2)

East China Sea

Oujiang Formation

Early Eocene

***Paijenborchella spinosa* Hanai, 1970**

Jour. Paleont., v. 44, no. 4, p. 726, Pl. 108, figs. 1a~e

Holotype: RV, UMUT CA 3838 (Pl. 108, fig. 1c), Paratypes: LV, UMUT CA 3839 (Pl. 108, fig. 1d); RV, UMUT CA 3840 (Pl. 108, fig. 1e); LV immature, UMUT CA 3841 (Pl. 108, fig. 1b); RV immature, UMUT CA 3842 (Pl. 108, fig. 1a)

Central reaches of Todorokigawa, Ishigaki, Island, Okinawa Prefecture (24°22'N, 124°13'E)

Pleistocene

[=*Hanaiborchella spinosa* (Hanai, 1970) (by this paper)]

***Paijenborchella triangularis* Hanai, 1970**

Jour. Paleont., v. 44, no. 4, p. 724, 725, Pl. 107, fig. 1, Pl. 108, figs. 3a~f, text-figs. 7A, B

Holotype: CC female, UMUT CA 3828 (Pl. 108, fig. 3d), Paratypes: LV female, UMUT CA 3829 (Pl. 108, fig. 3e); CC female, UMUT CA 3830 (Pl. 108, fig. 3f); RV male, UMUT CA 3831 (Pl. 108, fig. 3a); LV male, UMUT CA 3832 (Pl. 108, 3b)

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

[=*Hanaiborchella triangularis* (Hanai, 1970) (by Ikeya and Shiozaki, 1988)]

Recent

***Paijenborchella tsurugasakensis* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 65-67, Pl. 3, figs. 11-18, Pl. 20, fig. 3, text-fig. 18-4

Holotype: LV female, UMUT CA 15764 (Pl. 3, figs. 12, 15, 17, text-fig. 18-4), Paratypes: RV female, UMUT CA 15765 (Pl. 3, figs. 11, 16, 18, Pl. 20, fig. 3); RV male, UMUT CA 15766 (Pl. 3, fig. 13); LV male, UMUT CA 15767 (Pl. 3, fig. 14)

Loc. O5 = An exposure along the Otakizawa River, 2 km NW of Tsurugasaka railway station, Aomori-shi, Aomori Prefecture (40°48'07''N, 140°37'06''E)

Daishaka Formation

Plio-Pleistocene

***Palmoconcha irizukii* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 18, figs. 5-10, 9-7a~d, 8a~e, 9a~c

Holotype: CC male, SUM CO 1258 (figs. 9-7a~d),

Paratypes: LV female, SUM CO 1259 (figs. 9-8a~e); RV

female, SUM CO 1260 (figs. 9-9a~c); LV female, SUM CO 1261 (fig. 5-10)

Loc. 1-A15 = An outcrop, ca. 0.5 km NE of Fujina, Yatsuka-gun, Shimane Prefecture (35°25.5'N, 133°02.3'N)

Fujina Formation (Lower Member)

Middle Miocene

[Sample horizon = Ca. 5 m below the top of the Lower Member of Fujina Formation]

***Palusleptocythere migrans* Nakao and Tsukagoshi, 2002**

Species Diversity, v. 7, no. 1, p. 82~85, figs. 8A~L, 9A~J

Holotype: CC male, SUM CO 1138 (fig. 8A), Paratypes: CC male, SUM CO 1139 (fig. 8B); CC female, SUM CO 1140 (fig. 8C); CC female, SUM CO 1141 (fig. 8D); CC male, SUM CO 1142 (fig. 8E); CC female, SUM CO 1143 (fig. 8F); CC male, SUM CO 1144 (figs. 8G~L); CC male, SUM CO 1145 (fig. 9A); CC female, SUM CO 1146 (fig. 9B); male appendages, SUM CO 1147 (figs. 9C~J)

Loc. B = A small creek with associated flora of halophilous grass, at mouth of Obitsu River, Kisarazu-shi, Chiba Prefecture (35°24.6'N, 139°54.2'E) (muddy sand, depth 5 cm at lowest low tide)

Recent

***Palusleptocythere* Nakao and Tsukagoshi, 2002**

Species Diversity, v. 7, no. 1, p. 81, 82

Type species: *Palusleptocythere migrans* Nakao and Tsukagoshi, 2002

***Paracypretta* ? *petila* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 423, 424, Pl. 1, figs. 6, 7

Holotype: RV, UMUT MA 8523 (Pl. 1, fig. 6), Paratype: RV, UMUT MA 8524 (Pl. 1, fig. 7)

Well at Tiehlipu, E Tiehli, Tiehli-hsien, Liaoning Province, Manchuria (depth 84.9~91.6 m)

Nengkiang Formation

Cretaceous

***Paracypria inujimensis* (Okubo, 1980)**

[See *Thalassocypria inujimensis* Okubo, 1980.]

***Paracypris donghaiensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 142, 143, Pl. 164, figs. 2, 3

Holotype: CC, DJ 0068 (Pl. 164, figs. 2, 3), Paratype: CC, DJ 0155 (no figure)

East China Sea

Oujiang Formation

Early Eocene

***Paracypris lenticularis* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 73, Pl. 8, figs. 13, 21, 22, text-fig. 4

Holotype: RV, TNUM 8035 (Pl. 8, fig. 22), Paratypes: RV, TNUM 8033 (Pl. 8, fig. 13); LV, TNUM 8034 (Pl. 8, fig. 21)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Paracypris orientalis* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 170, 171, Pl. 4, fig. 2, text-fig. 20

Holotype: LV, TNUM 7172 (Pl. 4, fig. 2)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Paracytheridea ? minaminipponica* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 60, 61, Pl. 9, fig. 9; Pl. 12, fig. 5; Pl. 13, figs. 1~3, 19; Pl. 14, fig. 7

Holotype: LV, IGPS 97092 (Pl. 13, fig. 2), Paratypes: LV, IGPS 97089 (Pl. 13, fig. 19; Pl. 14, fig. 7); RV, IGPS 97090 (Pl. 9, fig. 9; Pl. 13, fig. 3); RV, IGPS 97091 (Pl. 12, fig. 5; Pl. 13, fig. 1)

St. 26 = E of Hainan (28°24.2'N, 124°14.0'E) (fine sand, depth 90 m)

Recent

***Paracytheridea bosoensis* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 403, 404, Pl. 50, figs. 6a, b, text-fig. 10, figs. 2a, b

Holotype: RV, UMUT CA 8415 (Pl. 50, fig. 6a, text-fig. 10, fig. 2b) (Sample no. 55), Paratype: LV, UMUT CA 8416 (Pl. 50, fig. 6b, text-fig. 10, fig. 2a)

Loc. 18 = An exposure, 200 m NNE of the Sengen Shrine, Hatazawa, Kisarazu-shi, Chiba Prefecture (35°20'53"N, 139°54'30"E)

Yabu Formation

Pleistocene

***Paracytheridea dissecta* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 163, 164, Pl. 1, figs. 8, 11, Pl. 3, fig. 13, text-fig. 13

Holotype: LV, TNUM 7109 (Pl. 1, figs. 8, 11), Paratype: LV, TNUM 7110 (Pl. 3, fig. 13)

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan

Maanshan Mudstone

Late Pliocene / Early Pleistocene

***Paracytheridea echinata* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 79, Pl. 2, figs. 14, 16, 17, 19, 26, text-fig. 16

Holotype: LV, TNUM 4131 (Pl. 2, figs. 16, 19), Paratypes: 3V, TNUM 4132~4134 (Pl. 2, figs. 14, 17, 26)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Paracytheridea minatogawae* Nohara, 1981**

Bull. Coll. Educ., Univ. Ryukyus, no. 25, pt. 2, p. 42, Pl. 1, fig. 1

Holotype: RUEG 59 (no figures), Paratypes: RV, RUEG 60 (Pl. 1, fig. 1); RV, RUEG 61 (no figures); LV, RUEG 62 (no figures)

Loc. 1 A-C = Minatogawa, Urazoe-shi, Okinawa Prefecture (26°15'48"N, 127°43'42"E)

Naha Formation

Pleistocene

***Paracytheridea minuta* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 135, 136, Pl. 3, figs. 22, 27, text-fig. 7

Holotype: LV, CKUM 3888 (Pl. 3, figs. 22, 27)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Paracytheridea neolongicaudata* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 141, Pl. 19, figs. 20~22

Holotype: LV, IGPS 87049 (Pl. 19, fig. 20), Paratypes: LV, IGPS 87051 (Pl. 19, fig. 21); RV, IGPS 87052 (Pl. 19, fig. 22)

A cliff near the Taihakusan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Paracytheridea polyspinosa* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 202, 203, Pl. 1, figs. 15~17, text-fig. 13

Holotype: CKUM 3028 (Pl. 1, fig. 15), Paratypes: RV, CKUM 3029 (Pl. 1, figs. 16, 17); CKUM 3030~3033 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

***Paracytheridea wawa* Hu, 1978**

Hu, 1978b, p. 134, 135, Pl. 3, figs. 26, 29, 32, text-fig. 6

Holotype: CKUM 3806, Paratype: CKUM 3805

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[Three figures (Pl. 3, figs. 26, 29 and 32) in the original description (Hu, 1978) cannot be correlated with each type specimen (CKUM 3805, 3806).]

***Paracytheroidea mutsuensis* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 91, Pl. 1, figs. 10, 11, Pl. 4, figs. 21~23

Holotype: CC, IGPS 91579 (Pl. 4, fig. 22), Paratypes: RV, IGPS 91580 (Pl. 1, fig. 11, Pl. 4, fig. 21); LV, IGPS 91581 (Pl. 1, fig. 10, Pl. 4, fig. 23)

St. 24 = Aomori Bay, Aomori Prefecture (40° 53' 33''N, 140° 51' 36''E) (adhering to plant, depth 5 m)

Recent

***Paracytheroidea tosaensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 37, Pl. 2, figs. 10, 11, Pl. 9, figs. 7, 8

Holotype: LV, IGPS 90297 (Pl. 2, fig. 10, Pl. 9, fig. 8), Paratype: RV, IGPS 90298 (Pl. 2, fig. 11, Pl. 9, fig. 7)

St. 212 = Uranouchi Bay, Kochi Prefecture (33° 25' 51''N, 133° 24' 51''E) (fine sand, depth 13 m)

Recent

***Paradoloria pellucida* (Kajiyama, 1912)**

[See *Cypridina pellucida* Kajiyama, 1912.]

***Paradoxostoma aculeoliferum* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 22, 23, fig. 10

Holotype: male, FESC 1123~1124, Paratypes: 15 females, 5 males, 4 juveniles (A-1 stage), 7 juveniles (A-2 stage), 8 juveniles (A-3 stage) (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[The figures (fig. 10) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Paradoxostoma affine* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 117~119, figs. 2g, h, p, 6b, 13a~i

Holotype: CC male with appendages, MO 429 (=NSMT-Cr 15290) (figs. 2g, h, 13a, b, d, e), Paratypes: CC male with appendages, MO 428 (fig. 13c) (the specimen missing); CC male with appendages, MO 430 (figs. 2p, 4b, 13f~i) (the specimen missing); CC female with appendages, MO 431 (=NSMT-Cr 15291) (no figures)

The intertidal zone, Mae-jima, Ushimado-cho, Oku-gun, Okayama Prefecture (34° 36.0'N, 134° 10.4'E)

Recent

[=Junior homonym of *Paradoxostoma affine* Scott, 1890. The new name was proposed as *Paradoxostoma hartmanni* Okubo, 1980 (by Okubo, 1980).]

***Paradoxostoma arcticum ochotense* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 203~206, text-fig. 39

Holotype: CC male, FESC 448~449, Paratypes: no numbers Kasatka Bay, Pacific seashore and probably in Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Island, Kuril Island Recent

[The figures (text-fig. 39) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma assimile* Okubo, 1978**

Proc. Japan Soc. Syst. Zool., no. 14, p. 12~14, text-figs. 2a~j, Pl. 1, figs. c, d, l

Holotype: CC male with appendages, MO 657 (=NSMT-Cr 15292) (text-figs. 2a, b, d, e, h~j), Allotype: CC female with appendages, MO 658 (=NSMT-Cr 15293) (no figures), Paratypes: CC male with appendages, MO 794 (=NSMT-Cr 15294) (no figures); CC female with appendage, MO 795 (=NSMT-Cr 15295) (text-fig. 2f); male appendage, MO 656 (text-fig. 2c) (the specimen missing); male appendage, MO 471 (text-fig. 2g) (the specimen missing)

The coast of Ootabu-jima, Hirase-cho, Wake-gun, Okayama Prefecture (34° 40.9'N, 134° 17.6'E)

Recent

***Paradoxostoma bingoense* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 110~112, figs. 1e, f, k, 5b, 9a~I

Holotype: CC male with appendages, MO 386 (=NSMT-Cr 15296) (no figures), Paratypes: CC male with appendages, MO 495 (=NSMT-Cr 15297) (figs. 1e, f, k, 5b, 9a~i) (the specimen missing); CC, MO 496 (no figures)

The intertidal zone of Ategi-jima, Numakuma-gun, Hiroshima Prefecture (34° 19.7'N, 133° 15.6'E)

Recent

[Paratype specimen (MO 495) is figured as figs. 1e, f, k, 5b, 9a~i, but the figure of holotype specimen (MO 386) is not shown.]

***Paradoxostoma brunneatum* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 18, 19, fig. 7A

Holotype: CC male with appendages, FESC 1117~1118 (fig. 7A), Paratypes: 3 females (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[=*Paradoxostoma brunneum brunneatum* Schornikov, 1975 (by Hanai et al., 1977)]

***Paradoxostoma brunneum brunneatum* Schornikov, 1975**

[See *Paradoxostoma brunneatum* Schornikov, 1975.]

***Paradoxostoma brunneum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 207~209, text-fig. 41

Holotype: CC male, FESC 452~453, Paratypes: no numbers
Coastal water, Shikotan Island, Kuril Islands (on *Zostera*, depth 2.5 m)

Recent

[=*Brunnestoma brunneum* (Schornikov, 1974) (by Schornikov, 1993a). The figures (text-fig. 41) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma caudatum* Okubo, 1978**

Proc. Japan Soc. Syst. Zool., no. 14, p. 15~17, text-fig. 4a~j, Pl. 1, figs. g~j, m

Holotype: CC male with appendage, MO 803 (=NSMT-Cr 15298) (text-fig. 4c), Allotype: CC female with appendages, MO 654 (=NSMT-Cr 15299) (text-figs. 4a, b, d~j)

The coast of Nagasaki, S of Shodo-shima, Shodo-gun, Kagawa Prefecture (34° 28.7'N, 134° 12.6'E)

Recent

[=Junior homonim of *Paradoxostoma caudatum* Hartmann, 1974. The new name was proposed as *Paradoxostoma vandenboldi* Okubo, 1980 (by Okubo, 1980).]

***Paradoxostoma coniforme* Kajiya, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 5, 6, Pl. 1, figs. 30~33

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paradoxostoma contendum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p.

200~202, text-fig. 37

Holotype: CC male, FESC 444~445, Paratypes: no numbers
The littoral zone of Krabovaya Bay, Shikotan Is., Kuril Islands

Recent

[The figures (text-fig. 37) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma convexum* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 115~117, figs. 2e, f, m, o; 4c~e, 6a, 12a~i

Holotype: CC male with appendages, MO 504 (=NSMT-Cr 15300) (figs. 2o, 6a, 12a, b, e), Paratypes: CC male with appendages, MO 503 (=NSMT-Cr 15301) (figs. 2e, f, m, 12c, d, f~i); CC female with appendages, MO 505 (=NSMT-Cr 15302) (no figures); CC juvenile (A-1 stage), MO 506 (fig. 4e) (the specimen missing); CC female, MO 510 (no figures) (the specimen missing); CC female with appendages, MO 511 (fig. 4d) (the specimen missing)

The intertidal zone, near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima-cho, Mitsugi-gun, Hiroshima Prefecture (34° 21.7'N, 133° 13.2'E)

Recent

[=Junior homonim of *Paradoxostoma convexum* Schornikov, 1965. The new name was proposed as *Paradoxostoma inabai* Okubo, 1980 (by Okubo, 1980).]

***Paradoxostoma denticulatum* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 124, figs. 3i~k, 5d, 17a~i

Holotype: CC male with appendages, MO 373 (=NSMT-Cr 15303) (figs. 3i~k, 5d, 17a~i)

The intertidal zone, Wasa-jima, Marugame-shi, Kagawa Prefecture (34° 23.4'N, 133° 47.4'E)

Recent

***Paradoxostoma depressum* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 119, 120, figs. 2i, j, n, 4b, 6c, 14a~i

Holotype: CC male with appendages, MO 408 (=NSMT-Cr 15304) (figs. 2i, j, n, 6c, 14a, b), Paratype: RV female, MO 403 (4b) (the specimen missing); CC female with appendages, MO 409 (=NSMT-Cr 15305) (figs. 14c~i)

The intertidal zone, Ko-jima, Hinase-cho, Wake-gun, Okayama Prefecture (34° 41.6'N, 134° 15.9'E)

Recent

***Paradoxostoma elongatum* Okubo, 1978**

Proc. Japan Soc. Syst. Zool., no. 14, p. 14, text-figs. 3a~i, Pl. 1, figs. e, f

Holotype: CC female with appendages, MO 694 (=NSMT-Cr 15306) (text-figs. 3a~i)

The intertidal zone, Ohama, Kurashiki-shi, Okayama

Prefecture (34° 25.6'N, 133° 49.4'E)

Recent

[=Junior homonim of *Paradoxostoma elongata* [sic] Puri, 1954. The new name was proposed as *Paradoxostoma sohni* Okubo, 1980 (by Okubo, 1980).]

***Paradoxostoma ezoense* Hiruta, 1975**

Jour. Fac. Sci., Hokkaido Univ., Ser. 6 (Zool.), v. 20, no. 1, p. 133~139, Pl. 4, fig. 4, text-figs. 9-1~2, 10-1~3, 11-1~5, 12-1~5

Lectotype: CC male with appendages, ZIHU 2136 (figs. 9-1,2, 11-1,2,4,5, 12-1~4), Paralectotypes: CC female with appendages, ZIHU 2137 (fig. 10-1~3); CC female with appendages, ZIHU 2138 (no figures); CC female with appendages, ZIHU 2139 (no figures); CC male with appendages, ZIHU 2140 (no figures); CC male with appendages, ZIHU 2141 (figs. 11-3, 12-5, Pl. 4, fig. 4) Oshoro Bay, Oshoro, W. of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (on algae, depth 0~1 m)

Recent

[=*Paradoxostoma faccidum* Schornikov, 1975 (by Hanai *et al.*, 1977). Hiruta (1975) presented 3 males and 3 females as the type specimens (syntypes), but failed to designate holotype. In this paper, therefore, the male specimen (ZIHU 2136) is designated as the lectotype by Hiruta.]

***Paradoxostoma faccidum* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 25~27, fig. 13

Holotype: male, FESC 1127~1128, Paratypes: 4 males, 6 females, 4 juveniles (A-1 stage), 2 juveniles (A-2 stage) (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[The figures (fig. 13) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Paradoxostoma fragile* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 120~122, figs. 3a~c, 6d, 15a~i

Holotype: CC male with appendages, MO 426 (=NSMT-Cr 15307) (figs. 3a, b, 15a~d, g, h), Paratypes: CC with appendages, MO 418 (=NSMT-Cr 15308) (no figures); CC male with appendages, MO 424 (figs. 3a, 6d, 15e, f, i); CC female with appendages, MO 427 (=NSMT-Cr 15309) (no figures)

The intertidal zone, Mae-jima, Ushimado-cho, Oku-gun, Okayama Prefecture (34° 36.0'N, 134° 10.4'E)

Recent

***Paradoxostoma gibberum* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 19, 20, fig. 8

Holotype: male, FESC 1119~1120, Paratypes: 1 male, 3

females (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[The figures (fig. 8) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma hartmanni* Okubo, 1980**

[See *Paradoxostoma affine* Okubo, 1977.]

***Paradoxostoma honssuense* Schornikov, 1975**

[See *Paradoxostoma honssuensis* Schornikov, 1975.]

***Paradoxostoma honssuensis* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 21, 22, fig. 9

Holotype: male, FESC 1121~1122, Paratypes: 3 females, 1 juveniles (A-1 stage) (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[=*Paradoxostoma honssuense* Schornikov, 1975 (by Hanai *et al.*, 1977). The figures (fig. 9) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma inabai* Okubo, 1980**

[See *Paradoxostoma convexum* Okubo, 1977.]

***Paradoxostoma japonicum* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 28, 29, fig. 15

Holotype: CC male with appendages, FESC 1131~1132 (fig. 15)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

***Paradoxostoma kunashiricum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 200, text-fig. 36

Holotype: CC male, FESC 442~443, Paratypes: no numbers Ivanovskiy Peninsula, Kunashir Island, Kuril Islands (depth 4~6 m)

Recent

[The figures (text-fig. 36) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma kurilense* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 198, 199, text-fig. 35

Holotype: CC male, FESC 440~441, Paratypes: no numbers

The littoral zone of Krabovaya Bay, Shikotan Island, Kuril Islands

Recent

[The figures (text-fig. 35) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma lunatum* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 122~124, figs. 3d~h, 6 e, 16a~j

Holotype: CC female with appendages, MO 491 (=NSMT-Cr 15310) (figs. 16a~d, g~i), Paratypes: CC female with appendages, MO 382 (=NSMT-Cr 15311) (figs. 3g, h, 16f); CC male with appendages, MO 415 (figs. 3d~f, 6e, 16j); CC female with appendages, MO 447 (fig. 16e)

The intertidal zone, near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima-cho, Mitsugi-gun, Hiroshima Prefecture (34° 21.7'N, 133° 13.2'E)

Recent

***Paradoxostoma micum* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 24, 25, fig. 12

Holotype: female, FESC 1125~1126, Paratypes: 4 specimens, 2 males, 4 juveniles (A-1 stage), 2 juvenile (A-2 stage) (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[The figures (fig. 12) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Paradoxostoma nigromaculatum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 196, 197, text-fig. 33

Holotype: CC male, FESC 436~437, Paratypes: no numbers
Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (text-fig. 33) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma obesum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 206, 207, text-fig. 40

Holotype: CC female, FESC 450~451, Paratypes: no numbers
Lower littoral zone of Krabovaya Bay, Shikotan Is., Kuril Islands

Recent

[=*Obesostoma obesum* (Schornikov, 1974) (by Schornikov, 1994). The figures (text-fig. 40) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma oblongum* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 6, Pl. 1, figs. 34, 35

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paradoxostoma ondae* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 202, 203, text-fig. 38

Holotype: CC female, FESC 446~447, Paratypes: no numbers
The SW shore of Kamchatka Peninsula, Russia (on algae, depth 1~5 m)

Recent

[The figures (text-fig. 38) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma oshoroense* Hiruta, 1975**

Jour. Fac. Sci., Hokkaido Univ., Ser. 6 (Zool.), v. 20, no. 1, p. 127~133, Pl. 4, fig. 3, text-figs. 7-1~9, 8-1~6

Lectotype: CC male with appendages, ZIHU 2130 (figs. 7-1,2, 8-5,6), Paralectotypes: CC female with appendages, ZIHU 2131 (figs. 7-3~9, 8-1~4); CC female with appendages, ZIHU 2132 (no figures); CC female with appendages, ZIHU 2133 (no figures); CC male with appendages, ZIHU 2134 (Pl. 4, fig. 3); CC male with appendages, ZIHU 2135 (no figures)
Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (on algae, depth 0~1 m)

Recent

[Hiruta (1975) presented 3 males and 3 females as the type specimens (syntypes), but failed to designate holotype. In this paper, therefore, the male specimen (ZIHU 2130) is designated as the lectotype by Hiruta.]

***Paradoxostoma ovulare* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 6, Pl. 1, figs. 36, 40

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paradoxostoma pedale* Hiruta, 1975**

Jour. Fac. Sci., Hokkaido Univ., Ser. 6 (Zool.), v. 20, no. 1, p. 118~123, Pl. 4, fig. 1, text-figs. 1-1~7, 2-1~4, 3-1~6

Lectotype: CC male with appendages, ZIHU 2116 (figs. 1-3,4,7, 2-3,4, 3-1~5, Pl. 4, fig. 1), Paralectotypes: CC female with appendages, ZIHU 2117 (fig. 3-6); CC female with appendages, ZIHU 2118 (figs. 1-5,6) (shell specimen missing); CC female with appendages, ZIHU 2119 (no figures); CC female with appendages, ZIHU 2120 (no figures); CC male with appendages, ZIHU 2121 (figs. 1-1,2,

2-1,2); CC male with appendages, ZIHU 2122 (no figures); CC male with appendages, ZIHU 2123 (no figures) Oshoro Bay, Oshoro, W. of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (on algae, depth 0~1 m)

Recent

[Hiruta (1975) presented 4 males and 4 females as the type specimens (syntypes), but failed to designate holotype. In this paper, therefore, the male specimen (ZIHU 2116) is designated as the lectotype by Hiruta.]

***Paradoxostoma pilosum* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 6, Pl. 1, figs. 37, 38

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paradoxostoma quadratum* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 6, 7, Pl. 1, fig. 39

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paradoxostoma rhomboideum* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 125~127, figs. 3l~n, 5e, 18a~i

Holotype: CC male with appendages, MO 412 (=NSMT-Cr 15312) (figs. 3l, m, 18a~d, f~i), Paratypes: female appendage, MO 419 (fig. 18e) (the specimen missing); CC females with appendages, MO 420 (=NSMT-Cr 15313) (no figures); CC female, MO421 (no figures); CC male with appendages, MO 422 (=NSMT-Cr 15314) (figs. 3n, 5e)

The intertidal zone, Mae-jima, Ushimado-cho, Oku-gun, Okayama Prefecture (34° 36.0'N, 134° 10.4'E)

Recent

***Paradoxostoma setoense* Schornikov, 1975**

[See *Paradoxostoma setoensis* Schornikov, 1975.]

***Paradoxostoma setoensis* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 27, 28, fig. 14

Holotype: female, FESC 1129~1130, Paratypes: 1 female, 1 male (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[= *Paradoxostoma setoense* Schornikov, 1975 (by Hanai *et al.*, 1977).]

***Paradoxostoma setosum* Okubo, 1977**

Publ. Seto Mar. Biol. Lab., v. 24, nos. 1/3, p. 127~129, figs. 4f~h, 19a~h

Holotype: CC male with appendages, MO 423 (=NSMT-Cr 15315) (figs. 4f~h, 19a~h)

The intertidal zone, Mae-jima, Ushimado-cho, Oku-gun, Okayama Prefecture (34° 36.0'N, 134° 10.4'E)

Recent

***Paradoxostoma sohni* Okubo, 1980**

[See *Paradoxostoma elongatum* Okubo, 1978.]

***Paradoxostoma spineum* Hiruta, 1975**

Jour. Fac. Sci., Hokkaido Univ., Ser. 6 (Zool.), v. 20, no. 1, p. 123~127, Pl. 4, fig. 2, text-figs. 4-1~6, 5-1~5, 6-1~6

Lectotype: CC male with appendages, ZIHU 2124 (figs. 6-6, Pl. 4, fig. 2), Paralectotypes: CC female with appendages, ZIHU 2125 (figs. 4-1,2,5,6, 5-1,2,4,5, 6-1~4); CC female with appendages, ZIHU 2126 (no figures); CC female with appendages, ZIHU 2127 (no figures); CC male with appendages, ZIHU 2128 (figs. 4-3,4, 5-3, 6-5); CC male with appendages, ZIHU 2129 (no figures)

Oshoro Bay, Oshoro, W. of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (on algae, depth 0~1 m)

Recent

[Hiruta (1975) presented 3 males and 3 females as the type specimens (syntypes), but failed to designate holotype. In this paper, therefore, the male specimen (ZIHU 2124) is designated as the lectotype by Hiruta.]

***Paradoxostoma subcyloidea* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 169, 170, Pl. 4, figs. 6, 8, 10, 12, text-fig. 19

Holotype: TNUM 7176, Paratypes: TNUM 7177~TNUM 7179

Outcrop along the N side of the Hengchun to Olanp: highway, the Nanwa Bay area, Hengchun Peninsula, southern Taiwan Maanshan Mudstone

Late Pliocene / Early Pleistocene

[= *Neocytherideis subcycloides* (Hu, 1983) (by Hu, 1984). Four figures (Pl. 4, figs. 6, 8, 10, 12) in the original description (Hu, 1983) cannot be correlated with each type specimen (TNUM 7176~7179).]

***Paradoxostoma taiwanica* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 84, Pl. 10, fig. 12, text-fig. 16

Holotype: RV, TNUM 8203 (Pl. 10, fig. 12)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

[= *Sclerochilus taiwanica* (Hu, 1984) (by Hu, 1986)]

***Paradoxostoma triangulum* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 7, Pl. 1, figs. 41, 42

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paradoxostoma ussuricum* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 197, 198, text-fig. 34

Holotype: CC male, FESC 438~439, Paratypes: no numbers Kuril Islands (on algae, depth 3~4 m)

Recent

[=*Boreostoma ussuricum* (Schornikov, 1974) (by Schornikov, 1993a). The figures (text-fig. 34) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Paradoxostoma vandenboldi* Okubo, 1980**

[See *Paradoxostoma caudatum* Okubo, 1978.]

***Paradoxostoma yatsui* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 7, Pl. 1, figs. 43~49

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Paraeoleperditia* Adachi and Igo, 1980**

Proc. Japan Acad., v. 56 (B), no. 8, p. 504~506

Type species: *Paraeoleperditia fukujiensis* Adachi and Igo, 1980

***Paraeoleperditia fukujiensis* Adachi and Igo, 1980**

Proc. Japan Acad., v. 56 (B), no. 8, p. 506, 507, figs. 1~4

Holotype: LV, IGUT 5269 (figs. 1, 2), Paratypes: RV, IGUT 5270~5275

Ichinotani Valley, Fukuji, Yoshiki-gun, Gifu Prefecture

Yoshiki Formation

Ordovician

***Parakrithe japonica* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 69, 70, Pl. 2, figs. 5a~c, 6

Holotype: LV, JC-1364 (Pl. 2, figs. 5a~c), Paratype: RV, JC-1365 (Pl. 2, fig. 6)

No. 301 (GH83-2) = Hyuga-nada, ca. 45 km SE off Miyazaki-shi, Miyazaki Prefecture (31°41.5'N, 131°46.1'E) (muddy fine sand, depth 360 m)

Recent

***Parakrithe subjaponica* Zhou, 1995**

Mem. Fac. Sci., Kyoto Univ. Ser. Geol. & Mineral., v. 57, no. 2, p. 70, 71, Pl. 2, figs. 8a~c, 9

Holotype: LV, JC-1366 (Pl. 2, figs. 8a~c), Paratype: RV, JC-1367 (Pl. 2, fig. 9)

No. 47 (GH82-2) = Kumano-nada, ca. 25 km SW off Daio-zaki, Mie Prefecture (34°06.6'N, 136°35.5') (very fine sand, depth 351 m)

Recent

***Parakrithella* Hanai, 1959**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 11, pt. 4, p. 418

Type species: *Neocyprideis pseudadonta* Hanai, 1959

[See *Neocyprideis Hanai*, 1959 (by Hanai, 1959).]

***Parakrithella oblongata* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 149, 150, Pl. 2, figs. 18~21, text-fig. 23

Holotype: CKUM 3778 (Pl. 2, fig. 18), Paratypes: CKUM 3779 (Pl. 2, fig. 20); CKUM 3780 (Pl. 2, fig. 21); RV, CKUM 3781 (Pl. 2, fig. 19)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Parakrithella pseudadonta* (Hanai, 1959)**

[See *Neocyprideis pseudadonta* Hanai, 1959.]

***Paraparchites hanaii* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 36, 37, Pl. 1, figs. 9a~c

Holotype: CC, IGPS 78404 (Pl. 1, figs. 9a~c)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture

Nagaiwa Formation

Lower Pennsylvanian

***Parasterope jensenii* Poulsen, 1965**

Dana-Report, Copenhagen, Carlsberg, Fdn., v. 57, p. 387~391, text-fig. 128

Holotype: female, ZMUC-collection, Paratype: female, ZMUC-collection

Okinose, Sagami Bay (depth 180 m)

Recent

***Parasterope obesa* Poulsen, 1965**

Dana-Report, Copenhagen, Carlsberg, Fdn., v. 57, p. 364~367, text-fig. 120

Holotype: CC female with 12 embryos, ZMUC-collection

Misaki, Miura-shi, Kanagawa Prefecture (shallow water)

Recent

***Patagonacythere robusta* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 77, 78, Pl.

9, figs. 4~12, text-fig. 20-1

Holotype: RV female, UMUT CA 15818 (Pl. 9, fig. 4), Paratypes: LV female, UMUT CA 15819 (Pl. 9, figs. 5, 10); RV male, UMUT CA 15820 (Pl. 9, figs. 6, 11, text-fig. 20-1); LV male, UMUT CA 15821 (Pl. 9, fig. 7); CC male, UMUT CA 15822 (Pl. 9, fig. 12); RV immature form, UMUT CA 15823 (Pl. 9, fig. 8); LV immature form, UMUT CA 15824 (Pl. 9, fig. 9)

Loc. SH1 = An exposure along riverbed of the Shoheizu River, 5 km E of Namioka Railway station, Kita-nakano-kaitaku, Namioka-machi, Minami-Tsugaru-gun, Aomori Prefecture (40°42'45''N, 140°38'30''E)

Daishaka Formation

Plio-Pleistocene

***Patagonacythere sasaokensis* Irizuki, 1993**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 170, p. 208, figs. 2-21, 13-5~8c

Holotype: RV female, IGPS 101824 (figs. 13-8a~c) (Loc. HIR-5S), Paratypes: LV female, IGPS 101822 (figs. 13-6a, b) (Loc. SUN-1S); LV male, IGPS 101821 (fig. 13-5) (Loc. HIR-3S); RV male, IGPS 101823 (figs. 2-21, 13-7) (Loc. HIR-3S)

Locality HIR-5S, Akita-city, Akita Prefecture (39°44'25''N, 140°13'59''E)

Sasaoka Formation

Upper Pliocene

***Patagonacythere sendaiensis* Ishizaki, Fujiwara and Irizuki, 1996**

Proc. 2nd European Ostracodologists Meeting, Glasgow (1993), p. 118, 119, Pl. 1, figs. 10~13

Holotype: RV, IGPS 102452 (Pl. 1, fig. 10), Paratypes: LV, IGPS 102453 (Pl. 1, fig. 11); LV, IGPS 102454 (Pl. 1, figs. 12, 13)

A riverbank outcrop of the Natori River S of Kagitori near the southern border of Sendai-shi, Miyagi Prefecture

Tsunaki Formation

Upper Miocene

***Pectocythere daishakaensis* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 59, 60, Pl. 2, figs. 1~7, text-figs. 16-1, 2

Holotype: LV female, UMUT CA 15749 (Pl. 2, figs. 2, 5, text-fig. 16-1), Paratypes: CC female, UMUT CA 15750 (Pl. 2, fig. 1); CC female, UMUT CA 15751 (Pl. 2, fig. 7); RV male, UMUT CA 15752 (Pl. 2, figs. 3, 6, Text-fig. 16-2); CC male, UMUT CA 15753 (Pl. 2, fig. 4)

Loc. TA1 = An exposure along the Takizawa River, 7 km NE of Namioka railway station, Namioka-machi, Minami-Tsugaru-gun, Aomori Prefecture (40°44'39''N, 140°38'57''E)

Daishaka Formation

Plio-Pleistocene

Pectocythere Hanai, 1957

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 474

Type species: *Pectocythere quadrangulata* Hanai, 1957

***Pectocythere pseudoamphidonta* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 475~477,

Pl. 11, figs. 4a~c, text-fig. 2

Holotype: LV, UMUT CA 2596 (Pl. 11, fig. 4a, text-fig. 2),

Paratype: CC, UMUT CA 2597 (Pl. 11, figs. 4b, c)

The valley of Toshihetsu-gawa, about 800 m W of Omagari, Toshihetsu-mura, Setana -gun Hokkaido

Setana Formation

Upper Pliocene

***Pectocythere quadrangulata* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 474, 475,

Pl. 11, figs. 3a, b, text-figs. 6a, b

Holotype: CC, UMUT CA 2594 (Pl. 11, figs. 3a, b, text-figs. 6a, b), Paratype: CC, UMUT CA 2595

The valley of Toshihetsu-gawa, about 800 m W of Omagari,

Toshihetsu-mura, Setana-gun, Hokkaido

Setana Formation

Upper Pliocene

***Pellucistoma ovaliphylla* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 105, Pl. 2, fig. 5, text-fig. 26

Holotype: TNUM 7021 (Pl. 2, fig. 5)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

Pleistocene

[=*Paradoxostoma ovaliphylla* (Hu, 1981) (by Hu, 1984)]

***Perissocytheridea formosana* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 77, 78, Pl. 5, figs. 1~4, 6, 7, text-fig. 9

Holotype: TNUM 8169, Paratypes: TNUM 8170~8172, 8174; RV, TNUM 8173 (Pl. 5, fig. 6)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

[=*Clithrocytheridea trapeziformis* (Hu and Chen, 1982) (by Hu, 1986). Five figures (Pl. 5, figs. 1~4, 7) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8169~8172, 8174).]

***Perissocytheridea haha* Hu, 1977**

Proc. Geol. Soc. China, no. 20, p. 84, 85, Pl. 1, figs. 13, 14, 23, text-fig. 3

Holotype: CKUM 3729 (Pl. 1, fig. 13), Paratypes: CKUM

3730; CKUM 3731

The left bank of the Houlung River, S of Kueishan, Miaoli Area, Taiwan

Toukoshan Formation

Pleistocene

[Two figures (Pl. 1, figs. 14 and 23) in the original description (Hu, 1977a) cannot be correlated with each type specimen (CKUM 3730, 3731).]

***Perissocytheridea japonica* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 18, Pl. 1, fig. 4, Pl. 3, figs. 4, 5

Holotype: CC, IGPS 90204 (Pl. 1, fig. 4, Pl. 3, figs. 4, 5)

St. 21 = Uranouchi Bay, Kochi Prefecture (33°25'54''N, 133°26'44''E) (fine sand, depth 2.5 m)

Recent

[=*Perissocytheridea* ? *japonica* Ishizaki, 1968 (by Nakao and Tsukagoshi, 2002)]

***Perissocytheridea oblonga* Hu, 1976**

Proc. Geol. Soc. China, no. 19, p. 47, 48, Pl. 3, figs. 18, 22, 23, 26, 27, text-fig. 18

Holotype: RV, CKUM 2051 (Pl. 3, figs. 18, 26), Paratypes: CKUM 2052; CKUM 2053

Loc. 13 = 2.5 km SE of Tsaochia station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Clithrocytheridea oblonga* (Hu, 1976) (by Hu, 1986). Three figures (Pl. 3, figs. 22, 23 and 27) in the original description (Hu, 1976) cannot be correlated with each type specimen (CKUM 2052, 2053).]

***Philomedes horikoshii* Hiruta, 1987**

Res. Crustacea, no. 16, p. 47~55, figs. 2-1~6, 3-1~6, 4-1~4, 5-1~4

Holotype: CC female with appendages, ZIHU 2245 (figs. 2-1~6, 3-1~6, 4-1~4, 5-1~4) (shell specimen missing)

St. T-1 = Off Toi, Suruga Bay (34°54.6'~55.4'N, 138°45.8'E) (mud, depth 125~130 m)

Recent

***Philomedes ijimai* Kajiya, 1912**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 24, no. 289, p. 614, Pl. 9, figs. 20~22

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Philomedes japonica* G. W. Müller, 1890**

Zool. Jahrb. System., no. 5, p. 236, 237, Pl. 25, figs. 18, 19, Pl. 26, figs. 5, 6, 11, 13, 18, Pl. 27, figs. 26, 27, 29, 31, 32

Syntypes: 20 females, 2 males, ZMB collection (the number

of ZMB 6906 is given for a part of the specimens. (by Yajima, 1997, p. 31, fig. 10))

Off Enoshima, Fujisawa-shi, Kanagawa Prefecture (depth ca. 18~22 m)

Recent

[=*Euphilomedes japonica* (G. W. Müller, 1890) (by Poulsen, 1962). The specimens of G. W. Müller were collected by F. Hilgendorf in the period of 1873 to 1876 (G. W. Müller, 1890).]

***Philomedes sordida* G. W. Müller, 1890**

Zool. Jahrb. System., no. 5, p. 237, 238, Pl. 25, fig. 17, Pl. 26, fig. 17, Pl. 27, figs. 28, 33

Syntypes: 12 females, ZMB collection (the number of ZMB 6907 is given for a part of the specimens. (by Yajima, 1997, p. 31, fig. 10))

Port of Hakodate, Hokkaido

Recent

[=*Euphilomedes sordida* (G. W. Müller, 1890) (by Poulsen, 1962). The specimens of G. W. Müller were collected by F. Hilgendorf in the period of 1873 to 1876 (G. W. Müller, 1890).]

***Phlyctocythere hamanensis* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 52, 53, Pl. 4, figs. 1a, 1b, 2a, 2b, 3, 4, Pl. 6, figs. 12, 13, text-figs. 17a, b

Holotype: CC, IGSU-O-21 (Pl. 4, figs. 1a, 1b, 2a, 2b, 3, 4, Pl. 6, figs. 12, 13), Paratype: CC, IGSU-O-68 (text-figs. 17a, b)

St. 51 = Off Enshu-nada, 3 km WSW of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34°39'56''N, 137°35'12''E) (well-sorted fine sand, depth 13.6 m)

Recent

***Phlyctocythere japonica* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 62, 63, Pl. 11, fig. 13; Pl. 12, fig. 10; Pl. 13, figs. 11, 12, 13a, b; Pl. 14, fig. 4

Holotype: LV, IGPS 97086 (Pl. 12, fig. 10; Pl. 13, fig. 12), Paratypes: RV, IGPS 97087 (Pl. 11, fig. 13; Pl. 13, figs. 13a, b; Pl. 14, fig. 4); RV, IGPS 97088 (Pl. 13, fig. 11)

St. 7 = Off Haimen (27°58.0'N, 123°5.0'E) (fine sand, depth 80 m)

Recent

***Phlyctocythere yueyunnae* Hu, 1986**

Jour. Taiwan Mus., v. 39, no. 1, p. 162, 163, Pl. 19, figs. 14, 15, 17, 19

Holotype: CC, TNUM 11469 (Pl. 19, fig. 14), Paratypes: CC, TNUM 11470 (Pl. 19, fig. 17); CC, TNUM 11471 (Pl. 19, fig. 15); CC, TNUM 11472 (Pl. 19, fig. 19)

An outcrop along the coast, ca. 3 km N of Baishaton, 10 km W of Miaoli, Miaoli District, Taiwan (24°37.7'N, 120°45.1'E)

Tungshiao Formation (Nanwo Member)
Pleistocene

***Physocypria nipponica* Okubo, 1990**

Res. Crustacea, no. 19, p. 3, 4, figs. 1 E~H, 2 B, E, F
Holotype: CC male with appendages, FO 524 (figs. 2B, E, F),
Allotype: CC female, FO 26 (no figures), Paratypes: CC
male with appendages, FO 18 (figs. 1E~H); CC female, FO
626 (no figures)
A paddy field, Shiono, Seto-cho, Okayama Prefecture (34°
45.7'N, 134°03.3'E)
Recent

***Pistocythereis bradyformis* (Ishizaki, 1968)**

[See *Echinocythereis bradyformis* Ishizaki, 1968.]

***Pistocythereis bradyi* (Ishizaki, 1968)**

[See *Echinocythereis bradyi* Ishizaki, 1968.]

***Platymicrocythere* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 13
Type species: *Platymicrocythere tokiokai* Schornikov, 1975

***Platymicrocythere tokiokai* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 14, 15, fig. 5
Holotype: female, FESC 361~362, Paratype: 1 female (no
numbers)
The intertidal zone of rocky shore, Shirahama, near the Seto
Marine Biological Laboratory of Kyoto University,
Wakayama Prefecture.
Recent

[The figures (fig. 5) in the original description (Schornikov,
1975b) cannot be correlated with each type specimen.]

***Pokornyella japonica* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 25,
Pl. 1, fig. 10, Pl. 5, figs. 5, 6
Holotype: RV, IGPS 90240 (Pl. 1, fig. 10, Pl. 5, fig. 5),
Paratype: LV, IGPS 90241 (Pl. 5, fig. 6)
St. 311 = Uranouchi Bay, Kochi Prefecture (33°25'55"N,
133°28'28"E) (medium sand, depth 14 m)
Recent
[=*Pseudoaurila japonica* (Ishizaki, 1968) (by Ishizaki and
Kato, 1976, p. 132, 133)]

***Polycope japonica* Hiruta, 1983**

Jour. Hokkaido Univ. Educ. Sec. II B, v. 33, no. 2, p. 1~9, figs.
1-1~5, 2-1~5, 3-1~4, 4-1~5, 5-1~3, 6-1~6
Holotype: CC female with appendages, ZIHU 2226 (figs.
1-1,2, 2-1,3,4), Allotype: CC male with appendages, ZIHU
2227 (figs. 3-1~4, 4-1~5, 5-1,3, 6-3), Paratypes: CC male
with appendages, ZIHU 2228 (figs. 5-2, 6-5); CC male with
appendages, ZIHU 2229 (no figures); CC male with
appendages, ZIHU 2230 (no figures); CC male with

appendages, ZIHU 2231 (fig. 6-6); CC male with appendages,
ZIHU 2232 (fig. 6-4); CC male with appendages, ZIHU 2233
(no figures); CC female with appendages, ZIHU 2234 (no
figures); CC female with appendages, ZIHU 2235 (figs.
1-3~5, 2-2,5, 6-1,2); CC female with appendages, ZIHU
2236 (no figures); CC female with appendages, ZIHU 2237
(no figures); CC female with appendages, ZIHU 2238 (no
figures)

The coast near the Mukaishima Marine Biological Station,
Hiroshima University, Mukaishima-cho, Mitsugi-gun,
Hiroshima Prefecture (34°27.3'N, 133°9.1'E) (sand, depth
0~0.3 m)
Recent

***Polytylites kitanipponica* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 151,
Pl. 18, figs. 3~6, text-figs. 6, 7
Holotype: LV male, IGPS 85795 (Pl. 18, fig. 3, text-fig. 6),
Paratypes: RV female IGPS 85796 (Pl. 18, fig. 4, text-fig. 7);
RV immature female, IGPS 85797 (Pl. 18, fig. 5); RV
immature male, IGPS 85798 (Pl. 18, fig. 6)
Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi
Prefecture
Iwaizaki Limestone (Unit G, black limestone)
Permian
[=*Polytylites kitanipponicus* Ishizaki, 1964 (by Hanai *et al.*,
1977)]

***Polytylites kitanipponicus* Ishizaki, 1964**

[See *Polytylites kitanipponica* Ishizaki, 1964.]

***Pontocypris kanazawensis* Ishizaki, 1963**

Japan. Jour. Geol. Geogr., v. 34, no. 1, p. 21, 22, Pl. 2, fig. 1
Holotype: CC, IGPS 78885 (Pl. 2, fig. 1)
Nishiichinose, W of Kanazawa-shi, Ishikawa Prefecture
Yatsuo Formation (Sunakosaka Member)
Miocene
[=*Propontocypris kanazawensis* (Ishizaki, 1963) (by Hanai *et al.*,
1977)]

***Pontocythere japonica* (Hanai, 1959)**

[See *Cushmanidea japonica* Hanai, 1959.]

***Pontocythere kashiwarensis* (Hanai, 1959)**

[See *Cushmanidea kashiwarensis* Hanai, 1959.]

***Pontocythere minuta* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 43, 44, Pl. 2, figs. 6a,
6b, 7a, 7b, 8~12, Pl. 3, fig. 11, text-figs. 13a, b
Holotype: CC, IGSU-O-15 (Pl. 2, figs. 6a, 6b, 7a, 7b, 8,
10~12), Paratypes: LV, IGSU-O-16 (Pl. 2, fig. 9, Pl. 3, fig.
11); CC, IGSU-O-70 (text-figs. 13a, b)
St. 53 = Off Enshu-nada, 3 km WSW of Imagire-guchi,
Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34°39'59"N,

137° 34'09''E) (well-sorted fine sand, depth 13.2 m)
Recent

***Pontocythere miurensis* (Hanai, 1959)**

[See *Cushmanidea miurensis* Hanai, 1959.]

***Pontocythere sekiguchii* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 41, 42, Pl. 2, figs. 1a, 1b, 2a, 2b, 3~5, Pl. 7, fig. 1, text-figs. 12a, b

Holotype: CC, IGSU-O-13 (Pl. 2, figs. 1a, 1b, 2a, 2b, 3, 4, Pl. 7, fig. 1), Paratypes: RV, IGSU-O-14 (Pl. 2, fig. 5); CC, IGSU-O-69 (text-figs. 12a, b)

St. 56 = Off Enshu-nada, 6 km W of Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34° 40'18''N, 137° 32'03''E) (well-sorted medium sand, depth 5.9 m)

Recent

***Pontocythere subjaponica* (Hanai, 1959)**

[See *Cushmanidea subjaponica* Hanai, 1959.]

***Pontocythere xiphoidea* Nakao and Tsukagoshi, 2002**

Species Diversity, v. 7, no. 1, p. 78~80, figs. 5E~Q, 6A~J

Holotype: CC male, SUM CO 1120 (fig. 5E), Paratypes: CC male, SUM CO 1121 (fig. 5F); CC female, SUM CO 1122 (fig. 5G, H); CC male, SUM CO 1123 (fig. 5I); CC female, SUM CO 1124 (fig. 5J); CC male, SUM CO 1125 (figs. 5K, L, O); LV female, SUM CO 1126 (fig. 5M); RV female, SUM CO 1127 (figs. 5N, P, Q); RV male, SUM CO 1125 (fig. 5O); RV female, SUM CO 1127 (figs. 5P, Q); RV male, SUM CO 1128 (fig. 6A); CC female, SUM CO 1129 (fig. 6B); CC male with appendages, SUM CO 1130 (figs. 6C~J, L~R); CC male appendage, SUM CO 1131 (fig. 6K)

Loc. 6 = 1 km off beach ridge on sand flat, at mouth of Obitsu River, Kisarazu-shi, Chiba Prefecture (35° 25.7'N, 139° 53.4'E) (medium sand, depth 10cm at lowest low tide)

Recent

***Potamocypris ? itungensis* Hanai, 1951**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 7, pt. 9, p. 421~423, Pl. 2, fig. 9, text-figs. 11~13

Holotype: CC, UMUT MA 8505 (Pl. 2, fig. 9), Paratype: CC, UMUT MA 8506

On the bank at the junction of the Itunghe with the Sungari river, Manchuria

Nengkiang Formation

Cretaceous

***Potamocypris sudzukii* Okubo and Terauchi, 1992**

Proc. Japan Soc. Syst. Zool., no. 46, p. 104, 105, text-figs. 1 g~m, Pl. 1, figs. N~Q

Holotype: CC female with appendages, FO 788 (text-figs. 1g~m, Pl. 1, figs. N, O), Paratypes: 2 CC females, FO 780, 787 (no figures); CC juvenile (A-1 stage), FO 779 (no figures); CC juvenile (A-1 stage), FO 783 (Pl. 1, figs. P, Q)

A paddy field, Kuro-shima, Okinawa Prefecture (ca. 24° N, ca. 124° E)

Recent

***Proponotocypris subtriangularis* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 74, Pl. 8, figs. 3~6, 10, text-fig. 5

Holotype: CC, TNUM 8025, Paratypes: TNUM 8026, 8027; LV, TNUM 8028 (Pl. 8, fig. 6); CC, TNUM 8029 (Pl. 8, fig. 10)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

[Three figures (Pl. 8, figs. 3, 4, 5) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8025~8027).]

***Propontocypris japonica* Okubo, 1979**

Proc. Japan Soc. Syst. Zool., no. 17, p. 34~36, figs. 2a~c, 3a~h

Holotype: CC female with appendages, MO 442 (=NSMT-Cr 15316) (figs. 2a, b, 3a~c, d', e~h), Allotype: CC male with appendages, MO 445 (=NSMT-Cr 15317) (figs. 2c, 3b', b'', d, e', e''), Paratype: CC female with appendages, MO 441 (=NSMT-Cr 15318) (no figures)

The intertidal zone of sand beach, Hishio, Mukaishima-cho, Hiroshima Prefecture (sandy mud) (34° 22.0'N, 133° 13.2'E)

Recent

***Propontocypris kanazawensis* (Ishizaki, 1963)**

[See *Pontocypris kanazawensis* Ishizaki, 1963.]

***Propontocypris maculata* Schornikov, 1973**

Vestnik Zool., no. 4, p. 57~59, fig. 2-1~13

Holotype: CC male with appendages, ZIANL 54327

Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is. (sublittoral zone)

Recent

***Propontocypris ovata* Schornikov, 1973**

Vestnik Zool., no. 4, p. 60, figs. 3-1~13

Holotype: CC male with appendages, ZIANL 54326

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is.

Recent

***Propontocypris postconcava* Schornikov, 1973**

Vestnik Zool., no. 4, p. 56, 57, figs. 1-1~17

Holotype: CC male with appendages, ZIANL 54329

Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is.

Recent

***Propontocypris uranipponica* Ishizaki and Irizuki, 1990**

Cour. Forsch.-Inst. Senckenberg, no. 123, p. 62, 63, Pl. 1, figs. 7~12, Text-figs. 7, 8

Holotype: LV, IGPS 101224 (Pl. 1, fig. 7), Paratypes: RV, IGPS 101225 (Pl. 1, fig. 10); LV, IGPS 101226 (Pl. 1, fig. 12); LV, IGPS 101227 (Pl. 1, fig. 8, text-fig. 8); RV, IGPS 101228 (Pl. 1, fig. 9, text-fig. 7); CC, IGPS 101229 (Pl. 1, fig. 11)

St. 120 = Toyama Bay (37° 20.0'N, 137° 39.8'E) (clayey silt, depth 890 m)

Recent

***Psammocythere oviformis* Hiruta, 1991**

Zool. Sci., no. 8, p. 113~119, figs. 1-1~4, 2-1~12, 3-1~10, 4-1~5

Holotype: CC male with appendages, ZIHU 462 (figs. 1-1, 2-1~10, 12, 4-1~4), Allotype: CC female with appendages, ZIHU 470 (figs. 1-3, 3-1~8, 4-5), Paratypes: CC male with appendages, ZIHU 463 (fig. 1-2); CC male with appendages, ZIHU 464 (fig. 2-11); 5 CC males with appendages, ZIHU 465~469 (no figures); CC female with appendages, ZIHU 471 (fig. 1-4); CC female with appendages, ZIHU 472 (figs. 3-9, 10); 4 CC females with appendages, ZIHU 473~476 (no figures)

The intertidal zone of Mataitoki, near Kushiro-shi, Hokkaido (42° 56.3'N, 144° 29.3'E) (sand, depth 20~50 cm)

Recent

***Pseudaurila* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 102, 103

Type species: *Pseudaurila loxoconchia* Hu, 1981

***Pseudaurila loxoconchia* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 103, 104, Pl. 2, figs. 6~8, 13, 15, text-fig. 24

Holotype: RV, TNUM 7022 (Pl. 2, figs. 6, 7), Paratypes: TNUM 7023; TNUM 7024; TNUM 7025 (Pl. 2, fig. 15)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Two figures (Pl. 2, figs. 8, 13) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7023, 7024).]

***Pseudaurila* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micropaleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 132, 133

Type species: *Pokorniyella japonica* Ishizaki, 1968

***Pseudaurila japonica* (Ishizaki, 1968)**

[See *Pokorniyella japonica* Ishizaki, 1968.]

***Pseudocythere frydli* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 216, 217, Pl. 13, fig. 15, text-figs. 16-7, 8

Holotype: RV, UMUT CA 9876 (Pl. 13, fig. 15), Paratypes: a broken LV, UMUT CA 9877 (text-fig. 16-7); a broken RV, UMUT CA 9878 (text-fig. 16-8)

Loc. 262 = A small exposure, in front of Sakaida elementary school, Imba-mura, Imba-gun, Chiba Prefecture (35° 47'16''N, 140° 13'22''E)

Kioroshi Formation (Kioroshi Member)

Pleistocene

***Pseudocythereis arachis* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 197, 198, Pl. 1, figs. 18, 19, Pl. 2, figs. 5, 6, 13, 14, Pl. 3, figs. 1~3, text-fig. 8

Holotype: CC, CKUM 3040 (Pl. 3, fig. 1), Paratypes: RV, CKUM 3034 (Pl. 1, fig. 18); LV, CKUM 3035 (Pl. 1, fig. 19); LV, CKUM 3036 (Pl. 2, fig. 5); RV, CKUM 3037 (Pl. 2, fig. 6); LV, CKUM 3038 (Pl. 2, fig. 13); RV, CKUM 3039 (Pl. 2, fig. 14); CC, CKUM 3041 (Pl. 3, fig. 2); LV, CKUM 3042 (Pl. 3, fig. 3); CKUM 3043~3050 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

[=*Wichmanella miaoliensis* (Hu and Yang, 1975) (by Hu, 1986)]

***Pseudocythereis miaoliensis* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 112, 113, Pl. 1, figs. 12, 14, 17, 22, 23, Pl. 2, fig. 9

Holotype: CC, CKUM 1003 (Pl. 1, figs. 22, 23), Paratypes: CKUM 1000 (Pl. 1, fig. 12); CC, CKUM 1001 (Pl. 1, fig. 17, Pl. 2, fig. 9); CKUM 1002 (Pl. 1, fig. 14)

Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

[=*Wichmanella miaoliensis* (Hu and Yang, 1975) (by Hu, 1986). =*Echinocythereis miaoliensis* (Hu and Yang, 1975) (by Hanai et al., 1980)]

***Pseudopsammocythere tokyoensis* Yajima, 1978**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 112, p. 391~393, Pl. 50, figs. 3a, b, text-fig. 7, figs. 1a, b

Holotype: RV, UMUT CA 8410 (Pl. 50, fig. 3a, text-fig. 7, fig. 1b) (Sample no. 512), Paratype: LV, UMUT CA 8411 (Pl. 50, fig. 3b, text-fig. 7, fig. 1a)

Loc. 28 = A cliff, 300 m ESE of the Shofukuji Temple, Josai, Kisarazu-shi, Chiba Prefecture (35° 21'35''N, 139° 55'52''E)

Narita Formation (Kioroshi Member)

Pleistocene

***Puriana gibba* Hu, 1976**

Proc. Geol. Soc. China, no. 19, p. 32~34, Pl. 1, figs. 11~14, 21, text-fig. 7

Holotype: CKUM 2017 (Pl. 1, fig. 13), Paratypes: CC, CKUM 2018 (Pl. 1, figs. 11, 21); CKUM 2019 (Pl. 1, fig. 12)

Loc. 13 or 14 = 2.5 km SE of Tsaochiao station, Chinshui county, ca. 8 km NE of Miaoli city, Taiwan

Cholan Formation

Upper Pliocene

[=*Coquimba gibba* (Hu, 1976) (by Hanai *et al.*, 1980)]

***Puriana nodosa* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 110, 111, Pl. 1, figs. 4~6, 8

Holotype: CKUM 1049 (Pl. 1, fig. 5), Paratypes: CC, CKUM 1050 (Pl. 1, figs. 6, 8); CKUM 1048 (Pl. 1, fig. 4)

Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

[=*Coquimba ? nodosa* (Hu and Yang, 1975) (by Hanai *et al.*, 1980)]

***Puriana pustulata* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 196, 197, Pl. 2, figs. 7~9, Pl. 3, figs. 16, 17, text-fig. 7

Holotype: male, CKUM 3071, Paratype: male, CKUM 3072; CKUM 3073 (Pl. 2, fig. 9); CKUM 3074 (Pl. 3, fig. 16); CC, CKUM 3075 (Pl. 3, fig. 17); CKUM 3076~3080 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

[=*Coquimba pustulata* (Hu and Cheng, 1977) (by Hu, 1986).

Two figures (Pl. 2, figs. 7, 8) in the original description (Hu and Cheng, 1977) cannot be correlated with each type specimen (CKUM 3071, 3072).]

***Pussella fijiensis* Hiruta, 1994**

Proc. Biol. Soc. Washington, v. 107, no. 4, p. 661~664, figs. 3-1~12, 4-1~9

Holotype: CC male with appendages, NSMT Cr 11413 (figs. 3-1~12, 4-1~9)

The intertidal zone of Suva Barrier Reef, Suva, Viti Levu, Fiji (18°09'S, 178°26'E) (coarse sand)

Recent

***Quadracythere ? subquadrata* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 105, 106, Pl. 2, figs. 20, 21

Holotype: CC, CKUM 1007 (Pl. 2, figs. 20, 21), Paratype: CKUM 1008 (no figures)

Mc-1 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

***Radimella costata* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 61~63, Pl. 1, figs. 23~29, text-fig. 2

Holotype: TUM 4013, Paratypes: TUM 4014~4018

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan

Hungchun Limestone

Late Pleistocene / Holocene

[Seven figures (Pl. 1, figs. 23~29) in the original description (Hu, 1979) cannot be correlated with each type specimen (TUM4013~4018).]

***Radimella elongata* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 63, Pl. 1, figs. 11, 12, text-fig. 3

Holotype: LV, TUM 4007 (Pl. 1, figs. 11, 12)

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan

Hungchun Limestone

Late Pleistocene / Holocene

***Radimella macroloba* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 88, 89, Pl. 1, figs. 2, 8, 18, text-fig. 7

Holotype: RV, TNUM 7006 (Pl. 1, figs. 2, 8), Paratype: TNUM 7007 (Pl. 1, fig. 18)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Radimella microreticulata* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 90, Pl. 1, figs. 4, 9, 10, text-figs. 8C, D

Holotype: LV, TNUM 7004, Paratypes: LV, TNUM 7005; TNUM 7005a (Pl. 1, fig. 9)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Radimella minor* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 63~65, Pl. 1, figs. 8~10, 16, text-fig. 5

Holotype: LV, TUM 4005 (Pl. 1, figs. 8, 9), Paratype: LV, TUM 4006 (Pl. 1, figs. 10, 16)

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan

Hungchun Limestone

Late Pleistocene / Holocene

***Radimella nodulosa* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 196, 197, figs. 25-1, 3, 5, 18, text-fig. 15

Holotype: CC, CKUM 3534 (figs. 25-3, 5), Paratypes: CKUM 3535 (figs. 25-1); LV, CKUM 3536; (figs. 25-18); CKUM 3614 (no figures)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Robstaurila nodulosus* (Hu, 1977) (by this paper)]

***Radimella parviloba* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 89, Pl. 1, figs. 1, 3, 5, 7, text-figs. 8A, B

Holotype: TNUM 7000, Paratypes: TNUM 7001~TNUM 7003

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[=*Scizocythere parviloba* (Hu, 1981) (by Hu, 1982). Four figures (Pl. 1, figs. 1, 3, 5, 7) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7000~7003).]

***Radimella virgata* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 63, Pl. 1, figs. 18~20, 22, text-fig. 4

Holotype: LV, TUM 4009 (Pl. 1, figs. 18, 19), Paratype: CC, TUM 4010 (Pl. 1, figs. 20, 22), TUM 4011 (no figures)

The area between Tanzi and shiniuxi, the outcrops of Hungchun Limestone, Hungchun peninsula, southern Taiwan

Hungchun Limestone

Late Pleistocene / Holocene

***Reymontia taiwanica* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 191~193, figs. 27-13, -14, text-figs. 10A, B

Holotype: CKUM 3572, Paratype: CKUM 3571

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

[=*Sinoleberis tosaensis* (Ishizaki, 1968) (by Malz and Ikeya, 1982). Two figures (figs. 27-13, 14) in the original description (Hu, 1977b) cannot be correlated with each type specimen (CKUM 3571, 3572).]

***Robertsonites hanaii* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 90, 91, Pl. 13, figs. 1~12, text-figs. 16-9, 10

Holotype: RV female, UMUT CA 15869 (Pl. 13, figs. 1, 6.

12, text-fig. 16-10), Paratypes: LV female, UMUT CA 15870 (Pl. 13, figs. 2, 5, 11, text fig. 16-9); RV male, UMUT CA 15871 (Pl. 13, fig. 3); LV male, UMUT CA 15872 (Pl. 13, fig. 4); RV immature form (A-1 stage), UMUT CA 15873 (Pl. 13, fig. 7); LV immature form (A-1 stage), UMUT CA 15874 (Pl. 13, fig. 8); RV immature form (A-3 stage), UMUT CA 15875 (Pl. 13, fig. 9); RV immature form (A-5 stage), UMUT CA 15876 (Pl. 13, fig. 10)

Loc. K1 = A small exposure along the Kujirasawa River, 2 km N of eastern entrance of Shin-Daishaka tunnel, Aomori-shi, Aomori Prefecture (40° 47'23''N, 140° 36'44''E)

Daishaka Formation

Plio-Pleistocene

***Robertsonites japonicus* (Ishizaki, 1966)**

[See *Buntonia japonica* Ishizaki, 1966.]

***Robertsonites reticuliformis* (Ishizaki, 1966)**

[See *Buntonia reticuliforma* Ishizaki, 1966.]

***Robertsonites tsugaruana* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 93, 94, Pl. 15, figs. 1~12, Pl. 20, fig. 6

Holotype: LV female, UMUT CA 15887 (Pl. 15, figs. 2, 5, 11), Paratypes: RV female, UMUT CA 15888 (Pl. 15, fig. 1, Pl. 20, fig. 6); RV female, UMUT CA 15889 (Pl. 15, figs. 6, 12); RV male, UMUT CA 15890 (Pl. 15, fig. 3); LV male, UMUT CA 15891 (Pl. 15, fig. 4); RV immature form (A-1 stage), UMUT CA 15892 (Pl. 15, fig. 7); LV immature form (A-1 stage), UMUT CA 15893 (Pl. 15, fig. 8); RV immature form (A-3 stage), UMUT CA 15894 (Pl. 15, fig. 9); RV immature form (A-5 stage), UMUT CA 15895 (Pl. 15, fig. 10)

Loc. K1 = A small exposure along the Kujirasawa River, 2 km NW of eastern entrance of Shin-Daishaka tunnel, Aomori-shi, Aomori Prefecture (40° 47'23''N, 140° 36'44''E)

Daishaka Formation

Plio-Pleistocene

***Robertsonites yatsukanus* Tanaka, 2002**

Paleontological Research, v. 6, no. 1, p. 15, 17, figs. 5-7, 8-9a~e, 10a~c, 11a~e, 12a~c

Holotype: LV male, SUM CO 1245 (figs. 8-9a~e), Paratypes: RV male, SUM CO 1246 (figs. 8-10a~c); LV female, SUM CO 1247 (figs. 8-11a~e); RV female, SUM CO 1248 (figs. 8-12a~c); LV male, SUM CO 1249 (fig. 5-7) Loc. 2-B1 = An outcrop, ca. 0.4 km NW of Fujina, Yatsuka-gun, Shimane Prefecture (35° 25.6'N, 133° 01.4'N)

Fujina Formation (Upper Member)

Middle Miocene

[Sample horizon = Ca. 94 m above the base of the Upper Member of Fujina Formation]

Robustaurila Yajima, 1982

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 213

Type species: *Cythereis assimilis* Kajiyama, 1913

***Robustaurila ishizakii* (Okubo, 1980)**

[See *Mutilus ishizakii* Okubo, 1980.]

***Robustaurila kianohybrida* (Hu, 1982)**

[See *Mutilus kianohybridus* Hu, 1982.]

***Robustaurila salebroso* (Brady, 1869)**

[See *Cythere salebroso* Brady, 1869.]

***Roundyella neopapillosa* Ishizaki, 1964**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 36, no. 1, p. 152, Pl. 18, figs. 7, 8, text-fig. 8

Holotype: male, IGPS 85799 (Pl. 18, fig. 7, text-fig. 8), Paratype: IGPS 85800 (Pl. 18, fig. 8)

Iwaizaki, Hashikami-machi, Motoyoshi-gun, Miyagi Prefecture

Iwaizaki Limestone (Unit G, black limestone)

Permian

[Holotype specimen is a LV (?) (by Hanai *et al.*, 1977)]

***Samarella hataii* Ishizaki, 1964**

Saito Ho-on Kai Mus. Nat. Hist., Res. Bull., no. 33, p. 37, 38, Pl. 1, figs. 10a-c

Holotype: CC, IGPS 78405 (Pl. 1, figs. 10a-c)

Nagaiwa, Hikoroichi-machi, Ofunato-shi, Iwate Prefecture Nagaiwa Formation

Lower Pennsylvanian

[= *Samarella* ? *hataii* Ishizaki, 1964 (by Hanai *et al.*, 1977)]

***Sarsiella japonica* Hiruta, 1977**

Jour. Fac. Sci., Hokkaido Univ., Ser. 6, (Zool.), v. 21, no. 1, p. 44~60, text-figs. 1-1~5, 2-1~6, 3-1~4, 4-1~4, 5-1~5, 6-1~6, 7-1~5, 8-1~4, 9-1~9, 10-1~5, 11-1~6, 12-1~8, Pl. 4, figs. 1~5

Holotype: CC female with appendages, ZIHU 2167 (figs. 1-1~5, 2-1, 2, 4, 6, 3-1~4, 4-2,3), Allotype: CC male with appendages, ZIHU 2168 (figs. 5-1~5, 6-1~6, 7-1~5), Paratypes: CC male with appendages, ZIHU 2169 (no figures); CC male with appendages, ZIHU 2170 (no figures); CC female with appendages, ZIHU 2171 (Pl. 4, figs. 1~5); CC female with appendages, ZIHU 2172 (fig. 2-3); CC female with appendages, ZIHU 2173 (figs. 2-5, 4-4); CC female with appendages, ZIHU 2174 (fig. 4-1); CC female with appendages, ZIHU 2175 (no figures); CC juvenile (A-4 stage) with appendages, ZIHU 2176 (no figures); CC juvenile (A-4 stage) with appendages, ZIHU 2177 (figs. 8-1, 9-1~9); CC juvenile (male) (A-3 stage) with appendages, ZIHU 2178 (fig. 10-5); CC juvenile (male) (A-3 stage) with appendages, ZIHU 2179 (no figures); CC juvenile (female) (A-3 stage) with appendages, ZIHU 2180 (fig. 10-2); CC juvenile (female) (A-3 stage) with appendages, ZIHU 2181

(figs.10-1,3,4); CC juvenile (male) (A-2 stage) with appendages, ZIHU 2182 (no figures); CC juvenile (male) (A-2 stage) with appendages, ZIHU 2183 (figs. 11-5,6); CC juvenile (female) (A-2 stage) with appendages, ZIHU 2184 (figs.11-1~4); CC juvenile (female) (A-2 stage) with appendages, ZIHU 2185 (no figures); CC juvenile (male) (A-1 stage) with appendages, ZIHU 2186 (no figures); CC juvenile (male) (A-1 stage) with appendages, ZIHU 2187 (figs. 12-6~7); CC juvenile (female) (A-1 stage) with appendages, ZIHU 2188 (figs.12-1~5); CC juvenile (female) (A-1 stage) with appendages, ZIHU 2189 (no figures) Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (muddy sand, depth 3~5 m) Recent

***Sarsiella misakiensis* Kajiyama, 1912**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 24, no. 289, p. 615, Pl.9, figs. 23~28

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Schizocythere asgao* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 192, 193, Pl. 11, figs. 14, 15

Holotype: LV female, UMUT CA 9833 (Pl. 11, fig. 15),

Paratype: RV female, UMUT CA 9834 (Pl. 11, fig. 14)

Loc. 305 = A cliff, 1.5 km S of Makuta railway station, Mariyatsu, Fukita-machi, Kisarazu-shi, Chiba Prefecture (35° 21'47''N, 140° 04'46''E)

Yabu Formation (Yabu Member)

Pleistocene

***Schizocythere costatus* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 109, Pl. 1, figs. 10, 11, 15

Holotype: CC, CKUM 1035 (Pl. 1, figs. 11, 15), Paratypes: CKUM 1034 (Pl. 1, fig. 10); CKUM 1036, 1037 (no figures)

Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

[= *Schizocythere costata* Hu and Yang, 1975 (by Hanai *et al.*, 1980)]

***Schizocythere hatatensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 154, Pl. 19, figs. 24, 25

Holotype: LV, IGPS 87053 (Pl. 19, fig. 25), Paratype: LV, IGPS 87054 (Pl. 19, fig. 24)

A cliff near the Taihaksan station of the abandoned Akyu Line, Sendai-shi, Miyagi Prefecture

Hatatate Formation

Miocene

***Schizocythere ikeyai* Tsukagoshi and Briggs, 1998**

Stereo-Atlas of Ostracod Shells, v. 25, parts. 1/2, p. 43~52, Pl. 25-44, figs. 1~4, Pl. 25-46, figs. 1~4, Pl. 25-48, figs. 1~5, Pl. 25-50, figs. 1~9, Pl. 25-51, figs. 1~7, text-figs. 1A~E, 2A~G, 3, 4

Holotype: CC male with appendages, UMUT RA 27688 (Pl. 25-44, figs. 1, 2, text-figs. 1A, B, E, 2A~D, F, G), Paratypes: CC male, UMUT RA 27689 (Pl. 25-44, figs. 3, 4); CC female, UMUT RA 27690 (Pl. 25-46, figs. 1, 2, Pl. 25-50, figs. 7, 8); CC female, UMUT RA 27691 (Pl. 25-46, fig. 3); CC female, UMUT RA 27692 (Pl. 25-46, fig. 4); RV female, UMUT RA 27693 (Pl. 25-48, fig. 1, Pl. 25-50, figs. 1, 2, 5); LV female, UMUT RA 27694 (Pl. 25-48, fig. 2, Pl. 25-50, figs. 3, 4, 6, 9); CC male, UMUT RA 27695 (Pl. 25-48, fig. 3); RV juvenile (A-1 stage), UMUT RA 27696 (Pl. 25-48, fig. 4); LV juvenile (A-1 stage), UMUT RA 27697 (Pl. 25-48, fig. 5); CC female with appendages, UMUT RA 27698 (text-figs. 1C, D, 2E); RV female, UMUT RA 27773 (Pl. 25-51, figs. 1, 6); LV juvenile (A-1 stage), UMUT RA 27774 (Pl. 25-51, figs. 2, 7); RV juvenile (A-1 stage), UMUT RA 27775 (Pl. 25-51, fig. 3); LV juvenile (A-3 stage), UMUT RA 27776 (Pl. 25-51, fig. 4); RV juvenile (A-3 stage), UMUT RA 27777 (Pl. 25-51, fig. 5)

Nakase, Akkeshi Bay, eastern Hokkaido (ca. 43° 0'N, 144° 48'E) (depth ca. 10 m)

Recent

***Schizocythere kishinouyei* (Kajiyama, 1913)**

[See *Cythere kishinouyei* Kajiyama, 1913.]

***Schizocythere okhotskensis* Hanai, 1970**

Jour. Paleont., v. 44, no. 4, p. 722, text-figs. 4C~F, G, 6A, 19A~D

Holotype: RV, UMUT CA 3861 (text-fig. 19A), Paratypes: UMUT CA 3862, UMUT CA 3863, UMUT CA 3864, UMUT CA 3865 (text-fig. 4E), UMUT CA 4246, UMUT CA 4247, UMUT CA 4248, UMUT CA 4249, UMUT CA 4250, UMUT CA 4251

St. 4 = Okhotsk Sea, 40 km off Tonbetsu (Hamatonbetsu), Soya-gun, Hokkaido (45° 24'N, 142° 41'E) (fine to medium sand)

Recent

***Schizocythere pacifica* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 151~153, Pl. 2, figs. 1a~c, text-fig. 8

Holotype: CC male, FESC-359~360, Paratypes: no numbers Tryekhpaliy Peninsula, Pacific seashore, Iturup Is., Kuril Islands (depth 40~41 m)

[The figures (Pl. 2, figs. 1a~c, text-fig. 8) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Schizocythere taiwanensis* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 109, Pl. 2, figs. 3, 4, 24, 25
Holotype: CKUM 1020 (Pl. 2, fig. 25), Paratypes: CKUM 1021 (Pl. 2, fig. 3); CKUM 1022 (Pl. 2, fig. 4); CKUM 1023 (Pl. 2, fig. 24)

Mc-1 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

***Schizocythere yokatsuensis* Nohara, 1981**

Bull. Coll. Educ., Univ. Ryukyus, no. 25, pt. 2, p. 42, 43, Pl. 1, figs. 2a, b

Holotype: RUEG 63 (no figures), Paratype: CC, RUEG 64 (no figures); RV, RUEG 65 (Pl. 1, figs. 2a, b); CC, RUEG 66 (no figures); CC, RUEG 67 (no figures)

Loc. 4B-C = The Campus of Yokatsu Senior High School (26° 18'30''N, 127° 53'47''E)

Naha Formation

Pleistocene

***Sclerochilus mukaishimensis* Okubo, 1977**

Proc. Japan Soc. Syst. Zool., no. 13, p. 59~62, text-figs. 1a~c, 2a~g, Pl. 6, figs. a~k

Holotype: CC male with appendages, MO 400 (=NSMT-Cr 15319) (text-figs. 1a, b, 2b', Pl. 6, figs. i, k), Allotype: CC female with appendages, MO 399 (=NSMT-Cr 15320) (text-figs. 2a~g, Pl. 6, figs. a, b), Paratypes: CC male with appendages, MO 395 (Pl. 6, figs. C, d, h, j); male appendage, MO 396 (text-fig. 1c); CC female, MO 436 (no figures); CC juvenile (A-1 stage) (no figures), CC juvenile (A-1 stage), MO 475 (Pl. 6, figs. e, f); CC male with appendage, MO 480 (Pl. 6, fig. g) (all of paratype specimens are missing)

The intertidal zone, Misaki, Ako-shi, Hyogo Prefecture (34° 43.4'N, 134° 24.7'E)

Recent

***Sclerochilus oshoroensis* Hiruta, 1976**

Annot. Zool. Japon, v. 49, no. 2, p. 142~147, figs. 1-1~4, 2-1~9, 3-1~3

Holotype: CC female with appendages, ZIHU 2153 (figs. 1-1~4, 2-1~6, 3-1,3), Allotype: CC male with appendages, ZIHU 2154 (figs. 2-7~9, 3-2), Paratypes: 2 CC males with appendages, ZIHU 2155, 2156 (no figures); 2 CC females with appendages, ZIHU 2157, 2158 (no figures)

Oshoro Bay, Oshoro, W of Otaru-shi, Ishikari Bay, Hokkaido (43° 13'N, 140° 52'E) (on algae, depth 0~1 m)

Recent

***Sclerochilus ovatoides* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 82, 83, Pl. 10, figs. 11, 13, text-fig. 14

Holotype: TNUM 8208, Paratype: TNUM 8207

The east slope of the Hengchun West Table-land, ca. 3 km W

of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

[Two figures (Pl. 10, figs. 11, 13) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8207, 8208).]

***Scleroconcha kubotai* Hiruta, 1981**

Jour. Hokkaido Univ., Educ., Sec. II B, v. 31, no. 2, p. 59~71, figs. 1-1~3, 2-1~4, 3-1~5, 4-1~4, 5-1~5, 6-1~4, 7-1~5, 8-1~4
Holotype: CC female with appendages, ZIHU 2218 (figs. 1-1~3, 2-1~5, 3-1,2, 4-2~4), Allotype: CC male with appendages, ZIHU 2219 (figs. 5-1~5, 6-1,3, 7-1~5, 8-1~3), Paratypes: CC male with appendages, ZIHU 2220 (figs. 6-2,4, 8-4); CC female with appendages, ZIHU 2221 (no figures); CC female with appendages, ZIHU 2222 (figs. 3-3,4); CC female with appendages, ZIHU 2223 (figs. 3-5, 4-1)

2 km off Sahara fishery harbor, Uchiura Bay, Hokkaido (42° 8.5'N, 140° 41'E) (sandy mud, depth 51 m)

Recent

***Semicytherura* ? *daishakaensis* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 98, 99, Pl. 17, figs. 1~6, text-fig. 19-3

Holotype: RV, UMUT CA 15909 (Pl. 17, figs. 1, 4, 6), Paratype: LV, UMUT CA 15910 (Pl. 17, figs. 2, 3, 5, text-fig. 19-3)

Loc. N4 = A small exposure 4.5 km NE of Namioka railway station, Namioka-machi, Minami Tsugaru-gun, Aomori Prefecture (40° 43'19"N, 140° 38'05"E)

Daishaka Formation

Plio-Pleistocene

[=*Cytherura daishakaensis* (Tabuki, 1986) (by Zhou, 1995)]

***Semicytherura* ? *miurensis* (Hanai, 1957)**

[See *Cytherura miurensis* Hanai, 1957.]

***Semicytherura elongata* Ikeya and Hanai, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 51, Pl. 5, figs. 4a, 4b, 5, Pl. 7, fig. 5

Holotype: RV, IGSU-O-29 (Pl. 5, figs. 4, 5, Pl. 7, fig. 5)

St. 39 = Hamana-ko, near Imagire-guchi, Maisaka-cho, Hamana-gun, Shizuoka Prefecture (34° 40'37"N, 137° 36'12"E) (well-sorted medium sand, depth 3.1 m)

Recent

[=*Semicytherura mukaishimensis* Okubo, 1980 (by this paper) *Semicytherura elongata* Ikeya and Hanai, 1982 is a junior homonym for *Semicytherura elongata* (Edwards, 1944), Darby, 1965. Therefore, the new name was proposed as *Semicytherura ensuensis* Ikeya and Hanai, 1991 (by Ikeya and Itoh, 1991, p. 123, 124).]

***Semicytherura ensuensis* Ikeya and Hanai, 1991**

[See *Semicytherura elongata* Ikeya and Hanai, 1982.]

***Semicytherura hanaii* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 53, 54, Pl. 11, figs. 3, 4, 6, 7a, b; Pl. 13, fig. 14; Pl. 14, fig. 6
Holotype: RV, IGPS 97058 (Pl. 11, fig. 3), Paratypes: LV, IGPS 97055 (Pl. 11, fig. 6); RV, IGPS 97056 (Pl. 11, figs. 7a, b; Pl. 13, fig. 14; Pl. 14, fig. 6); LV, IGPS 97057 (Pl. 11, fig. 4)

St. 7 = Off Haimen (27° 58.0'N, 123° 5.0'E) (fine sand, depth 80 m)

Recent

***Semicytherura henryhowei* Hanai and Ikeya, 1977**

[See *Cytherura quadrata* Hanai, 1957.]

***Semicytherura hiberna* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 1/4, p. 22~24, figs. 3d~g, 8a~j, 9a~h

Holotype: CC male with appendages, MO 990 (=NSMT-Cr 15321) (figs. 3e~g, 8a~j), Paratypes: juvenile (A-1 stage), MO 991 (fig. 3d); CC juvenile (A-1 stage) with appendages, MO 992 (=NSMT-Cr 15322) (figs. 9a~h)

The intertidal zone, near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima-cho, Mitsugi-gun, Hiroshima Prefecture (34° 21.7'N, 133° 13.2'E)

Recent

***Semicytherura minaminipponica* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 54, 55, Pl. 11, figs. 8a, b, 9a, b, 10; Pl. 13, fig. 10

Holotype: RV, IGPS 97093 (Pl. 11, fig. 10; Pl. 13, fig. 10), Paratypes: LV, IGPS 97094 (Pl. 11, figs. 9a, b); RV, IGPS 97095 (Pl. 11, figs. 8a, b)

St. 7 = Off Haimen (27° 58.0'N, 123° 5.0'E) (fine sand, depth 80 m)

Recent

***Semicytherura mukaishimensis* Okubo, 1980**

Publ. Seto Mar. Biol. Lab., v. 25, nos. 1/4, p. 24~26, figs. 3h~k, 10a~k

Holotype: CC male with appendages, MO 561 (=NSMT-Cr 15323) (figs. 3i, j), Allotype: CC female with appendages, MO 869 (=NSMT-Cr 15324) (figs. 10a~c), Paratypes: male appendage, MO 562 (fig. 10d); CC female, MO 563 (fig. 3k); CC male, MO 564 (=NSMT-Cr 15325) (no figures); male, MO 564' (no figures) (the specimen missing); CC female, MO 571 (fig. 3h) (the specimen missing); female appendages, MO 573 (=NSMT-Cr 15326) (figs. 10e~j, g')

The intertidal zone, near the Mukaishima Marine Biological Station, Hiroshima University, Mukaishima-cho, Mitsugi-gun, Hiroshima Prefecture (34° 21.7'N, 133° 13.2'E)

Recent

Semicytherura neosubundata* (Ishizaki, 1966)**[See *Cytherura neosubundata* Ishizaki, 1966.]Semicytherura okinawaensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 59, Pl. 8, figs. 6a~c

Holotype: LV, RUEG 150 (Pl. 8, figs. 6a~c)

Loc. 74122302 = Ca. 500m E of Horikawa, Tamagusuku-son, Okinawa Prefecture (26°08'20''N, 127°47'00''E)

Shinzato Formation

Pliocene

***Semicytherura polygonoreticulata* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micro-paleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 131, 132, Pl. 1, figs. 9, 10, Pl. 2, fig. 1, text-fig. 6

Holotype: LV, IGPS 91740 (Pl. 1, fig. 10, Pl. 2, fig. 1), Paratype: RV, IGPS 91739 (Pl. 1, fig. 9, text-fig. 6)

Loc. 12 = A cliff, E of an agricultural lane, 2 km SW of Oyori Tunnel of Loc. 11 (A cliff, E of an agricultural lane, 950 m SE of Oyori Tunnel, Sagara-cho, Haibara-gun, Shizuoka Prefecture)

Furuya Formation

Pleistocene

[Sample horizon 12C = Ca. 1.5 m below the top of Furuya Fm.]

***Semicytherura ryukyuensis* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 59, 60, Pl. 8, fig. 4

Holotype: LV, RUEG 151 (Pl. 8, fig. 4)

Loc. So-6b = Ca. 300 m NW of Somachi, Kikai-cho, Oshima-gun, Kagoshima Prefecture (28°20'10''N, 130°00'02''E)

Somachi Formation

Pliocene

***Semicytherura simplex* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 133, 134, Pl. 3, figs. 1, 4, text-fig. 5

Holotype: RV, CKUM 3782 (Pl. 3, figs. 1, 4), Paratype: CKUM 3783 (Pl. 3, fig. 11)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

Semicytherura skipa* (Hanai, 1957)**[See *Cytherura skipa* Hanai, 1957.]Semicytherura subundata* (Hanai, 1957)**[See *Cytherura subundata* Hanai, 1957.]***Semicytherura tetragona* (Hanai, 1957)**[See *Cytherura tetragona* Hanai, 1957.]***Semicytherura wakamurasaki* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 218~220, Pl. 14, figs. 1~8, 17, text-figs. 16-1, 2

Holotype: LV female, UMUT CA 9882 (Pl. 14, fig. 6), Paratypes: RV female, UMUT CA 9883 (Pl. 14, figs. 3, 17); RV male, UMUT CA 9884 (Pl. 14, fig. 1); LV female, UMUT CA 9885 (Pl. 14, fig. 7; text-fig. 16-1); RV female, UMUT CA 9886 (Pl. 14, fig. 8); LV male, UMUT CA 9887 (Pl. 14, fig. 2); CC male, UMUT CA 9888 (Pl. 14, fig. 4); CC female, UMUT CA 9889 (Pl. 14, fig. 5); RV female, UMUT CA 9890 (text-fig. 16-2)

Loc. 190 = An exposure, 3.6 km SE of Kobayashi railway station, Imba-mura, Imba-gun, Chiba Prefecture (35°47'50''N, 140°12'46''E)

Kioroshi Formation (Kioroshi Member)

Pleistocene

***Semicytherura yajimae* Ikeya and Zhou, 1992**

In Ishizaki, K. and Saito, T. (eds.), Centenary of Japanese Micro-paleontology, 1992, p. 351, figs. 11-1a, 1b, 2, 3a, 3b, 4. Terra Sci. Publ., Tokyo

Holotype: RV, IGSU-O-768 (figs. 11-1a, b, 2), Paratype: LV, IGSU-O-769 (figs. 11-3a, 3b, 4)

St. 11 = Otuschi Bay, Iwate Prefecture (39°20.0'N, 141°55.6'E) (mud, depth 35 m)

Recent

Sinocytheridea impressa* (Brady, 1869)**[See *Cytheridea impressa* Brady, 1869.]Sinoleberis* Hu, 1979**

Petr. Geol. Taiwan, no. 16, p. 66, 67

Type species: *Reymontia taiwanica* Hu, 1977***Sinoleberis punctualis* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 183, Pl. 4, figs. 5, 6

Holotype: RV, TNUM 7273 (Pl. 4, figs. 5, 6)

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan
Hengchun Limestone

Pleistocene

Sinoleberis tosaensis* (Ishizaki, 1968)**[See *Trachyleberis tosaensis* Ishizaki, 1968.]Spinileberis costatus* Hu, 1977**

Petr. Geol. Taiwan, no. 14, p. 205~207, figs. 24-1, 4, 10, 11, 15, text-fig. 23

Holotype: CKUM 3503 (fig. 24-11), Paratypes: LV, CKUM 3500 (figs. 24-1, 4); CKUM 3501 (fig. 24-10); CKUM 3502

(fig. 24-15); CKUM 3504~3506 (no figures)

An outcrop about 2 km S of Miaoli city, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Spinileberis furuyaensis* Ishizaki and Kato, 1976**

Takayanagi, Y. and Saito, T. (eds.), Progress in Micro-paleontology, Micropaleont. Press, Amer. Mus. Nat. Hist., New York, p. 142, Pl. 4, figs. 4~9

Holotype: LV, IGPS 91724 (Pl. 4, figs. 8, 9), Paratypes: RV, IGPS 91725 (Pl. 4, fig. 7); LV, IGPS 91723 (Pl. 4, figs. 4~6)

Loc. 4 = A cliff, S of an agricultural lane, 1.5 km SW of the town hall of Loc. 1 (A cliff, S of an agricultural lane, 3,200 m NW of a town hall, Shizunami-cho, Haibara-gun, Shizuoka Prefecture)

Furuya Formation

Pleistocene

[Sample horizon 4C = The top of the cliff]

***Spinileberis* Hanai, 1961**

Trans. Proc. Palaeont. Soc. Japan, N. S., no. 44, p. 167

Type species: *Cythere quadriaculeata* Brady, 1880

***Spinileberis marginocarinalis* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 105, 106, Pl. 2, figs. 11, 17, text-fig. 27

Holotype: RV, TNUM 7027 (Pl. 2, figs. 11, 17)

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

***Spinileberis quadriaculeata* (Brady, 1880)**

[See *Cythere quadriaculeata* Brady, 1880.]

***Stenocypris viridis* Okubo, 1990**

Bull. Biogeogr. Soc. Japan, v. 45, nos. 1~22, p. 42, 44, figs. 2f~l

Holotype: CC female with appendages, FO 477 (figs. 2f~i), Paratypes: 3 CC females, FO 475, 476, 629 (no figures) (the specimen missing)

A paddy field, Shiono, Seto-cho, Okayama Prefecture (34° 45.8'N, 134° 03.3'E)

Recent

***Swainocythere* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 58, 59

Type species: *Swainocythere chejudoensis* Ishizaki, 1981

***Swainocythere chejudoensis* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p.

59, 60, Pl. 12, figs. 12a, b, 13~15; Pl. 13, figs. 17, 18; Pl. 15, figs. 12, 13

Holotype: LV, IGPS 97059 (Pl. 12, fig. 14; Pl. 13, fig. 17; Pl. 15, fig. 12), Paratypes: RV, IGPS 97062 (Pl. 12, figs. 12a, b); RV, IGPS 97060 (Pl. 12, fig. 15; Pl. 13, fig. 18; Pl. 15, fig. 13); LV, IGPS 97061 (Pl. 12, fig. 13)

St. 28 = S of Cheju-do (31° 4.8'N, 126° 54.7'E) (mud, depth 105 m)

Recent

***Taiwanocythere* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 103, 104

Type species: *Basslerites taiwanensis* Hu and Yeh, 1978

***Tanella miurensis* Hanai, 1957**

Jour. Fac. Sci., Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 462, 463, Pl. 9, figs. 1a~e, text-figs. 2I, J

Holotype: CC male UMUT CA 2582 (Pl. 9, figs. 1a, b), Allotype: CC female, UMUT CA 2583 (Pl. 9, figs. 1c~e), Paratype: CC male, UMUT CA 2584

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[= *Tanella pacifica* Hanai, 1957 (new name, not new species) *T. miurensis* Hanai is identical with *Cythere inflata* Brady, 1890, the name *C. inflata* has, however, been preoccupied by Muenster (1830), M'Coy (1844), Norman (1862), Terguenc (1878). Therefore since Brady's *C. inflata* belongs to genus *Tanella*, a new name *T. pacifica* is proposed (by Hanai, 1957, p. 465) = *Ishizakiella miurensis* (Hanai, 1957) (by Tsukagoshi, 1994)]

***Tanella pacifica* Hanai, 1957**

[See *Tanella miurensis* Hanai, 1957.]

***Tanella supralittoralis* Schornikov, 1974**

Vestnik Zool., no. 4, p. 158-160, text-fig. 11

Holotype: CC male, FESC-418~419, Paratypes: 89 males, 72 females, 100 juveniles

Supralittoral zone of Cirip peninsula, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[= *Ishizakiella supralittoralis* (Schornikov, 1974) (by Tsukagoshi, 1994). The figures (text-fig. 11) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Terrestricythere ivanovae* Schornikov, 1969**

Zool. Jour., v. 48, no. 4, p. 495~497, text-figs. 1-1~16

Holotype: male, FESC141~142, Paratypes: 45 females, 32 males, 6 juveniles (no numbers)

Supralittoral zone of 200 m SW of Kitovaya Bay, Iturup Island, Kuril Islands

Recent

[The figures (text-figs. 1-1~16) in the original description (Schornikov, 1969) cannot be correlated with each type specimen.]

***Terrestricythere* Schornikov, 1969**

Zool. Jour., v. 48, no. 4, p. 495

Type species: *Terrestricythere ivanovae* Schornikov, 1969

***Tetracytherura miii* Ishizaki, 1969**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 41, no. 2, p. 216, 217, Pl. 26, figs. 10, 11, Pl. 24, figs. 1~3

Holotype: RV, IGPS 90328 (Pl. 26, fig. 10, Pl. 24, fig. 2), Paratypes: LV, IGPS 90329 (Pl. 26, fig. 11, Pl. 24, fig. 1); LV, IGPS 90330 (Pl. 24, fig. 3)

St. 17 = Nakanoumi Estuary, Shimane Prefecture (35° 28'01''N, 133°08'32''E) (muddy sand, depth 1.9 m)

Recent

[=*Angulicytherura* ? *miii* (Ishizaki, 1969) (by Nakao and Tsukagoshi, 2002)]

***Thalassocyprina inujimensis* Okubo, 1980**

Proc. Japan Soc. Syst. Zool., no. 18, p. 22~25, text-figs. 3a~k, Pl. 1, figs. i, j

Holotype: CC female with appendages, MO 1152 (=NSMT-Cr 15327) (text-figs. 3a~k), Paratype: CC female with appendages, MO 1153 (=NSMT-Cr 15328) (Pl. 1, figs. i, j)

The intertidal zone, stony shore, Inu-jima, Okayama-shi, Okayama Prefecture (34°33.5'N, 134°06.4'E)

Recent

[=*Paracyprina inujimensis* (Okubo, 1980) (by Wouters, 1998)]

***Tongacythere hanaii* Nohara, 1987**

Bull. Coll. Educ., Univ. Ryukyus, no. 30, pt. 2, p. 50, 51, Pl. 10, figs. 2a~e

Holotype: LV, RUEG 131 (Pl. 10, figs. 2a~e)

St. 400 = Ca. 6 km SSW of Minami-daito-jima, E of Okinawa (25°45'02''N, 131°13'52''E) (sandy mud, depth 2450 m)

Recent

***“Toulminia” hokkaidoana* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 479~481, Pl. 11, figs. 2a, b, text-figs. 5a, b

Holotype: CC female, UMUT CA 2593 (Pl. 11, figs. 2a, b, text-figs. 5a, b)

The valley of Toshibetsugawa, about 800 m W of Omagari, Toshibetsu-mura, Setana-gun, Hokkaido

Setana Formation

Upper Pliocene

[=*Munseyella hokkaidoana* (Hanai, 1957) The new name, *Munseyella* was proposed by Van den Bold, 1957 for *Toulminia* Munsey, 1953 (preoccupied by the sponge genus

Toulminia Zittel, 1878) (by Hanai, 1957, p. 481).]

***“Toulminia” japonica* Hanai, 1957**

Jour. Fac. Sci. Univ. Tokyo, Sec. 2, v. 10, pt. 3, p. 478, 479, Pl. 11, figs. 1a~e, text-figs. 3a, b, 4a, b

Holotype: CC male, UMUT CA 2589 (Pl. 11, figs. 1a, b), Allotype: CC female, UMUT CA 2590 (Pl. 11, figs. 1c, d, text-figs. 4a, b), Paratypes: CC male, UMUT CA 2591 (text-figs. 3a, b); CC male, UMUT CA 2592 (Pl. 11, fig. 1e)

The shore behind an Imperial villa, Hayama-cho, Kanagawa Prefecture (beach sand)

Recent

[=*Munseyella japonica* (Hanai, 1957). The generic name, *Munseyella* was proposed by Van den Bold, 1957 for *Toulminia* Munsey, 1953 (preoccupied by the sponge genus *Toulminia* Zittel, 1878) (by Hanai, 1957, p. 481).]

***Trachyleberidea pitalia* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 86, 87, Pl. 1, figs. 12, 14, 20, 21, 22, text-fig. 6

Holotype: TNUM 4014, Paratypes: TNUM 7015~7018

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[=*Bradleya pitalia* (Hu, 1981) (by Zhou, 1995). Five figures (Pl. 1, figs. 12, 14, 20, 21, 22) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 4014, 7015~7018).]

***Trachyleberidea polyclada* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 86, Pl. 1, figs. 6, 11, 13, 15, 16, 17, 19, text-fig. 5

Holotype: TNUM 7013, Paratypes: CC, TNUM 7008 (Pl. 1, figs. 6, 13); 2 RV, TNUM 7009, 7013a (Pl. 1, figs. 15, 17); TNUM 7010~7012

Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)

Maanshan Mudstone

Late Pliocene to Early Pleistocene

[Four figures (Pl. 1, figs. 11, 13, 16, 19) in the original description (Hu, 1981b) cannot be correlated with each type specimen (TNUM 7010~7013).]

***Trachyleberis* Brady, 1898**

Trans. zool. Soc. Lond., v. 14, p. 444, 445, Pl. 47, figs. 1~7, 18~25

Type species: *Cythere scabrocuneata* Brady, 1880

***Trachyleberideaacrocaudalis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the

continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 156, Pl. 169, figs. 7~10
Holotype: CC, DJ 0082 (Pl. 169, figs. 9, 10), Paratypes: CC, RV 0080 (Pl. 169, fig. 7); CC, DJ 0081 (Pl. 169, fig. 8)

East China Sea

Oujiang Formation

Early Eocene

[=*Caudites?acrocaudalis* (Liu, 1989) (by Yang *et al.*, 1990)]

***Trachyleberis costus* Hu, 1983**

Petr. Geol. Taiwan, no. 19, p. 150, 151, Pl. 1, figs. 17~19

Holotype: TNUM 7116, Paratypes: TNUM 7117; TNUM 7118

Outcrops along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21° 56.3'N, 120° 48.2'E)

Maanshan Mudstone

Plio-Pleistocene

[=*Acanthocythereis niitsumai* (Ishizaki, 1971) (by Hu, 1986).

Three figures (Pl. 1, figs. 17~19) in the original description (Hu, 1983) cannot be correlated with each type specimen (TNUM 7116~7118).]

***Trachyleberis cuneatelles* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 98, 99, Pl. 7, figs. 15~17, 19, 21, text-fig. 32

Holotype: TNUM 8162, Paratypes: CC, TNUM 8161 (Pl. 7, fig. 19); TNUM 8163; TNUM 8164; LV, TNUM 8165 (Pl. 7, figs. 17)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22° 00.5'N, 120° 44.1'E)

Ssukou Formation

Pleistocene

[=*Trachyleberis scabrocuneata* (Brady, 1880) (by Hu, 1986).

Three figures (Pl. 7, figs. 15, 16, 21) in the original description (Hu, 1984) cannot be correlated with each type specimen (TNUM 8162~8164).]

***Trachyleberis echinatus* Hu, 1981**

Quart. Jour. Taiwan Mus., v. 34, nos. 1/2, p. 66, 67, Pl. 1, fig. 4, text-fig. 4

Holotype: RV, TNUM 4102 (Pl. 1, fig. 4)

An outcrop of the west edge of the Hengchun Table Land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

[=*Acanthocythereis niitsumai* (Ishizaki, 1971) (by Hu, 1986)]

***Trachyleberis ishizakii* Yasuhara *et al.*, 2002**

Paleontological Research, v. 6, no. 1, p. 93, figs. 7-1~10

Holotype: RV male, OCUCO 0005 (fig. 7-1), Paratypes: RV male, OCUCO 0006 (fig. 7-2); LV male, OCUCO 0007 (fig. 7-3); LV male, OCUCO 0008 (figs. 7-4a, 4b); RV female,

OCUCO 0009 (fig. 7-5); RV female, OCUCO 0010 (figs. 7-6a, 6b); LV female, OCUCO 0011 (fig. 7-7); LV female, OCUCO 0012 (figs. 7-8); RV juvenile (A-1 Stage), OCUCO 0013 (fig. 7-9); LV juvenile (A-1 Stage), OCUCO 0014 (figs. 7-10)

T1-6 (core sample) = Ca. 8 km NW of Wakayama-shi, Wakayama Prefecture (34° 14.7'N, 135° 05.2'E) (depth ca. 20 m)

Holocene

[Sample horizon = Ca. 15 m below the sea floor]

***Trachyleberis leei* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 37, Pl. 2, figs. 10~15

Holotype: LV female, CNU O 523 (Pl. 2, fig. 12), Paratypes: RV female, CNU O 524 (Pl. 2, fig. 10); LV female, CNU O 525 (Pl. 2, fig. 11); RV female, CNU O 526 (Pl. 2, fig. 13); RV female, CNU O 527 (Pl. 2, fig. 14); LV male, CNU O 528 (Pl. 2, fig. 15)

Sample SJ2-3 = Seojeongri area of Yeongil-gun, ca. 8.5 km NNW of Pohang, SE coast of Korean Peninsula

Yeonil Group

Middle Miocene

***Trachyleberis lungkangensis* Hu and Cheng, 1977**

Mem. Geol. Soc. China, no. 2, p. 194, 195, Pl. 1, figs. 7~14, text-fig. 5

Holotype: CCfemale, CKUM 3020 (Pl. 1, fig. 14), Paratypes: CC male, CKUM 3016 (Pl. 1, figs. 7, 13); female, CKUM 3017 (Pl. 1, fig. 8); LV male, CKUM 3018 (Pl. 1, fig. 9); RV male, CKUM 3021 (Pl. 1, fig. 11); RV female, CC, CKUM 3019 (Pl. 1, fig. 12); CKUM 3017 (Pl. 1, fig. 10); CKUM 3022~3027 (no figures)

An outcrop along the coast near the mouth of the Wumei River, 1.2 km SW of Lungkang, Houlung, Miaoli-hsien, Taiwan

Lungkang Formation

Pleistocene

***Trachyleberis macrus* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 110, Pl. 2, figs. 15, 17~19, 22

Holotype: CC, CKUM 1030 (Pl. 2, figs. 17, 19), Paratypes: CKUM 1031; CKUM 1032; CC, CKUM 1033 (Pl. 2, fig. 22)

Mc-1 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

[Two figures (Pl. 2, figs. 15 and 18) in the original description (Hu and Yang, 1975) cannot be correlated with each type specimen (CKUM 1031, 1032).]

***Trachyleberis mizunamiensis* Yajima, 1992**

Bull. Mizunami Fossil Mus., no. 19, p. 257, 258, Pl. 32, figs. 7~10

Holotype: CC female, UMUT CA 19087 (Pl. 32, fig. 8), Paratypes: LV female, UMUT CA 19088 (Pl. 32, fig. 7); CC male, UMUT CA 19089 (Pl. 32, fig. 9); CC male, UMUT CA 19090 (Pl. 32, fig. 10)

Loc. 1 = A small exposure, right bank of the Hiyoshi River, 2.5 km N of the Mizunami Fossil Museum, Hiyoshi-machi, Mizunami-shi, Gifu Prefecture (35°23'29''N, 137°14'27''E) Akeyo Formation (Shukunohora Sandstone Member) Early Miocene

***Trachyleberis niitsumai* Ishizaki, 1971**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 43, no. 1, p. 93, Pl. 1, fig. 5, Pl. 4, figs. 15, 18, Pl. 5, fig. 3, Pl. 6, fig. 10, Pl. 7, fig. 9

Holotype: RV male, IGPS 91705 (Pl. 6, fig. 10, Pl. 7, fig. 9), Paratypes: LV female, IGPS 91706 (Pl. 1, fig. 5, Pl. 4, fig. 18, Pl. 5, fig. 3); LV immature form, IGPS 91707 (Pl. 4, fig. 15) St. 72 = Aomori Bay, Aomori Prefecture (40°53'22''N, 140°47'49''E) (mud, depth 41 m)

Recent

[=*Acanthocythereis* ? *niitsumai* (Ishizaki, 1971) (by Hanai et al., 1977)]

***Trachyleberis praeniitsumai* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 37, 39, Pl. 3, figs. 1~5

Holotype: LV female, CNU O 529 (Pl. 3, fig. 3), Paratypes: CC female, CNU O 530 (Pl. 3, figs. 1, 2); RV female, CNU O 531 (Pl. 3, fig. 4); RV female, CNU O 532 (Pl. 3, fig. 5) Sample SJ2-3 = Seojeongri area of Yeongil-gun, ca. 8.5 km NNW of Pohang, SE coast of Korean Peninsula

Yeonil Group

Middle Miocene

***Trachyleberis scabrocuneata* (Brady, 1880)**

[See *Cythere scabrocuneata* Brady, 1880.]

***Trachyleberis shukunohorensis* Yajima, 1992**

Bull. Mizunami Fossil Mus., no. 19, p. 258, 259, Pl. 32, figs. 1~4

Holotype: CC female, UMUT CA 19091 (Pl. 32, fig. 2), Paratypes: CC female, UMUT CA 19092 (Pl. 32, fig. 1); CC male, UMUT CA 19093 (Pl. 32, fig. 3); RV male, UMUT CA 19094 (Pl. 32, fig. 4)

Loc. 1 = A small exposure, right bank of the Hiyoshi River, 2.5 km N of the Mizunami Fossil Museum, Hiyoshi-machi, Mizunami-shi, Gifu Prefecture (35°23'29''N, 137°14'27''E) Akeyo Formation (Shukunohora Sandstone Member) Early Miocene

***Trachyleberis spinosus* Hu and Yang, 1975**

Proc. Geol. Soc. China, no. 18, p. 110, Pl. 1, figs. 1~3, 7, 9

Holotype: CC, CKUM 1024 (Pl. 1, figs. 1, 7), Paratypes: CKUM 1025 (Pl. 1, fig. 2); CC, CKUM 1026 (Pl. 1, figs. 3, 9); CKUM 1027~1029 (no figures)

Mc-4 = An outcrop of S side along the Houlung River, ca. 2 km W of Fuchi county, Miaoli district, Taiwan

Chinshui Shale

Pliocene

***Trachyleberis tosaensis* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 38, 39, Pl. 2, figs. 7, 8, Pl. 8, figs. 5, 6

Holotype: RV, IGPS 90304 (Pl. 2, fig. 8, Pl. 8, fig. 5), Paratype: LV, IGPS 90305 (Pl. 2, fig. 7, Pl. 8, fig. 6)

St. 318 = Uranouchi Bay, Kochi Prefecture (33°26'22''N, 133°28'10''E) (fine sand, depth 10 m)

Recent

[=*Sinoleberis tosaensis* (Ishizaki, 1968) (by Malz and Ikeya, 1982)]

***Trachyleberis uncuneatelles* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 100, Pl. 7, figs. 18, 23, text-fig. 33

Holotype: TNUM 8160 (Pl. 7, fig. 23), Paratype: TNUM 8159 (Pl. 7, fig. 18)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Trachyleberis volubilis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 154, Pl. 168, figs. 12~16

Holotype: CC, DJ 0092 (Pl. 168, fig. 13), Paratypes: CC, DJ 0084 (Pl. 168, figs. 15, 16); CC, DJ 0093 (Pl. 168, fig. 12); CC, DJ 0100 (Pl. 168, fig. 14)

East China Sea

Oujiang Formation

Early Eocene

***Trachyleberis wenzhouensis* Chen, 1990**

Acta Micropalaeontologica Sinica, v. 7, no. 4, p. 376, Pl. 1, fig. 16

Holotype: CC, 111224 (Pl. 1, fig. 16)

Hole W6-1-1 (core) = 160 km E of Wenzhou City, SW of East China Sea (27°50'N, 122°50'E)

Oujiang Formation

Early Eocene

***Trachyleberis? zhoushanensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological

Publishing House Press, Beijing, p. 154, Pl. 168, figs. 9, 10
 Holotype: LV, DJ 0120a (Pl. 168, fig. 9), Paratype: RV, DJ 0120b (Pl. 168, fig. 10)
 East China Sea
 Donghai Group
 Pleistocene to Holocene

***Triebelina lata* Hu, 1984**

Jour. Taiwan Mus., v. 37, no. 1, p. 72, 73, Pl. 9, figs. 1, 4, text-fig. 3
 Holotype: LV, TNUM 8046 (Pl. 9, figs. 1, 4)
 The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)
 Ssukou Formation
 Pleistocene

***Triebelina rectangulata* Hu, 1981**

Petr. Geol. Taiwan, no. 18, p. 84, 85, Pl. 2, figs. 12, 18, 22, text-fig. 3
 Holotype: RV, TNUM 7031 (Pl. 2, figs. 12, 18, 22)
 Outcrop along the Hengchun to Olanpi Highway, N coast of the Nanwan Bay, Hengchun Peninsula, Taiwan (ca. 21°56.3'N, 120°48.2'E)
 Maanshan Mudstone
 Late Pliocene to Early Pleistocene

***Typhlocythere japonica* Ishizaki, 1981**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 51, nos. 1/2, p. 51~53, Pl. 10, figs. 10, 11a, b; Pl. 11, figs. 1, 2, 5; Pl. 14, figs. 9, 10; Pl. 15, fig. 7
 Holotype: RV, IGPS 97074 (Pl. 10, fig. 10; Pl. 11, fig. 5), Paratypes: LV, IGPS 97071 (Pl. 11, fig. 1; Pl. 14, fig. 10; Pl. 15, fig. 7); RV, IGPS 97072 (Pl. 11, fig. 2; Pl. 14, fig. 9); LV, IGPS 97073 (Pl. 10, figs. 11a, b)
 St. 24 = W of East China Sea (28°21.4'N, 124°32.0'E) (fine sand, depth 99 m)
 Recent

***Urocythereis ? abei* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 71~73, Pl. 7, figs. 1~11, Pl. 20, fig. 5, text-fig. 18-6
 Holotype: LV female, UMUT CA 15792 (Pl. 7, fig. 2, Pl. 20, fig. 5), Paratypes: RV female, UMUT CA 15793 (Pl. 7, fig. 1); RV female, UMUT CA 15794 (Pl. 7, fig. 9); RV female, UMUT CA 15795 (Pl. 7, fig. 11, text-fig. 18-6); LV female, UMUT CA 15796 (Pl. 7, fig. 8); LV female, UMUT CA 15797 (Pl. 7, fig. 10); RV male, UMUT CA 15798 (Pl. 7, fig. 3); RV immature form (A-1 stage), UMUT CA 15799 (Pl. 7, fig. 4); LV immature form (A-1 stage), UMUT CA 15800 (Pl. 7, fig. 5); RV immature form (A-2 stage), UMUT CA 15801 (Pl. 7, fig. 6); LV immature form (A-2 stage), UMUT CA 15802 (Pl. 7, fig. 7)
 Loc. OT3 = An exposure along the Otanizawa River, 4 km S

of Tsurugasaka railway station, Magonai, Aomori-shi, Aomori Prefecture (40°45'12''N, 140°39'03''E)
 Daishaka Formation
 Plio-Pleistocene

***Urocythereis ? posterocostata* Tabuki, 1986**

Bull. Coll. Educ., Univ. Ryukyus, no. 29, pt. 2, p. 73, 74, Pl. 8, figs. 1~10, text-fig. 18-7
 Holotype: LV, UMUT CA 15803 (Pl. 8, figs. 2, 5), Paratypes: RV, UMUT CA15804 (Pl. 8, figs. 1, 6); RV, UMUT CA15805 (Pl. 8, fig. 10, text-fig. 18-7); LV, UMUT CA15806 (Pl. 8, fig. 9); RV immature form (A-1 stage), UMUT CA15807 (Pl. 8, fig. 3); LV immature form (A-1 stage), UMUT CA15808 (Pl. 8, fig. 4); RV immature form (A-2 stage), UMUT CA15809 (Pl. 8, fig. 7); LV immature form (A-2 stage), UMUT CA15810 (Pl. 8, fig. 8)
 Loc. T1 = A small exposure along the Tanosawa River, 1 km NE of eastern entrance of Shin-Daishaka tunnel, Aomori-shi, Aomori Prefecture (40°46'54''N, 140°37'05''E)
 Daishaka Formation
 Plio-Pleistocene

***Urocythereis gorokuensis* Ishizaki, 1966**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 37, no. 2, p. 144, 145, Pl. 19, figs. 9, 10, text-fig. 1, fig. 7
 Holotype: RV, IGPS 87061 (Pl. 19, fig. 9, text-fig. 1, fig. 7), Paratype: LV immature form, IGPS 87060 (Pl. 3, fig. 10)
 Goroku, in the western border of Sendai-shi, Miyagi Prefecture
 Tatsunokuchi Formation (upper horizon)
 Pliocene
 [= *Urocythereis ? gorokuensis* Ishizaki, 1966 (by Hanai *et al.*, 1977)]

***Urocythereis miii* Ishizaki, 1969**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 41, no. 2, p. 218, 219, Pl. 25, figs. 11, 12, Pl. 24, figs. 5, 6
 Holotype: RV, IGPS 90332 (Pl. 25, fig. 24, Pl. 24, fig. 6), Paratype: LV, IGPS 90333 (Pl. 25, fig. 12, Pl. 24, fig. 5)
 St. 12 = Nakanoumi Estuary, Shimane Prefecture (35°31'12''N, 133°11'22''E) (muddy sand, depth 6.3 m)
 Recent
 [= *Hemicythere ? miii* (Ishizaki, 1969) (by Hanai *et al.*, 1977)]

***Urocythereis pohangensis* Huh and Whatley, 1997**

Jour. Micropalaeont., v. 16, p. 36, 37, Pl. 2, figs. 3~9
 Holotype: LV male, CNU O 516 (Pl. 2, fig. 6), Paratypes: LV female, CNU O 517 (Pl. 2, fig. 3); RV female, CNU O 518 (Pl. 2, fig. 4); RV male, CNU O 519 (Pl. 2, fig. 5); LV female, CNU O 520 (Pl. 2, fig. 7); RV female, CNU O 521 (Pl. 2, fig. 8); RV juvenile, CNU O 522 (Pl. 2, fig. 9)
 Sample SJ2-3 = Seojeongri area of Yeongil-gun, ca. 8.5 km NNW of Pohang, SE coast of Korean Peninsula
 Yeonil Group

Middle Miocene

***Urocythereis yuquanensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 146, Pl. 165, fig. 7

Holotype: LV, DJ 0106 (Pl. 165, fig. 7)

East China Sea

Donghai Group

Pleistocene to Holocene

***Uroleberis ovatus* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 151, 152, Pl. 4, figs. 16, 18, text-fig 25

Holotype: LV, CKUM 3876 (Pl. 4, figs. 16, 18), Paratypes: CKUM 3877~3879 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Uroleberis pseudodemokrace* Hu, 1982**

Quart. Jour. Taiwan Mus., v. 35, nos. 3/4, p. 173, 174, Pl. 2, figs. 2~5, text-fig. 1

Holotype: RV, TNUM 7223 (Pl. 2, figs. 2, 5), Paratype: RV, TNUM 7224 (Pl. 2, figs. 3, 4)

An outcrop of the west edge of the Hengchun Table land, near Shanhai-li, 3 km W of the city of Hengchun, Taiwan

Hengchun Limestone

Pleistocene

***Vargula hilgendorffii* (G. W. Müller, 1890)**

[See *Cypridina hilgendorffii* G. W. Müller, 1890.]

***Vargula sekiguchii* Hiruta, 1984**

Jour. Hokkaido Univ. Educ. Sec. II B, v. 35, no. 1, p. 55~61, figs. 1-1~9, 2-1~7, 3-1~7, 4-1~4, 5-1~5

Holotype: CC female with appendages, ZIHU 2239 (figs. 1-1~4, 6~8, 2-1,3,4,6, 3-1~5, 7, 4-1~4, 5-1~3, 5) (shell specimen missing), Paratypes: CC female with appendages, ZIHU 2240 (no figures); CC female with appendages, ZIHU 2241 (figs. 1-5, 2-5,7, 3-6, 5-4); CC female with appendages, ZIHU 2242 (fig. 2-2); CC female with appendages, ZIHU 2243 (no figures); CC juvenile (male) (A-1 stage) with appendages, ZIHU 2244 (fig.1-9)

Off Enshunada, Pacific coast of Shizuoka Prefecture (34° 21.0'N, 137° 59.5'E) (depth 520 m)

Recent

***Vargula spinosa* Poulsen, 1962**

Dana-Report, Copenhagen, Carlsberg, Fdn., v. 57, p. 192~196, text-figs. 95, 96

Holotype: CC female with 15 embryos, ZMUC-collection, Paratype: juvenile female, ZMUC-collection

Okinose, Sagami-nada, Sagami Bay, (hard bottom, depth 180 m)

***Violacytheroïs sargassicola* (Hiruta, 1976)**

[See *Cytheroïs sargassicola* (Hiruta, 1976).]

***Vitjasiella belyaevi* Schornikov, 1976**

Abh. Verh. naturwiss. Ver. Hamburg, nos. 18/19 (Suppl.), p. 254~257, figs. 3, 4-1~12, 5-1~5, 6-1~10

Holotype: CC female with appendages, FESC1581 (figs. 4-1, 2, 6, 7~12, 5-1~5, 6-1~3, 6, 8), Paratype: CC female with appendages (no number) (fig. 3, 4-3~5, 6-4, 5, 7)

Kurile-Kamchatka trough (45° 14'N, 155° 05'E) (depth 5090~5100 m)

Recent

***Vitjasiella* Schornikov, 1976**

Abh. Verh. naturwiss. Ver. Hamburg, nos. 18/19 (Suppl.), p. 252, 254

Type species: *Vitjasiella belyaevi* Schornikov, 1976

***Xenoleberis yamadai* (Hiruta, 1979)**

[See *Bathyleberis yamadai* Hiruta, 1979.]

***Xestoleberis bulbous* Hu, 1978**

Petr. Geol. Taiwan, no. 15, p. 150, 151, Pl. 4, figs. 1~8, text-fig 24

Holotype: CKUM 3866 (Pl. 4, figs. 1, 7), Paratypes: CKUM 3861 (Pl. 4, fig. 2); CKUM 3862 (Pl. 4, fig. 4); CKUM 3863 (Pl. 4, fig. 5); CKUM 3864 (Pl. 4, fig. 8); CKUM 3865 (Pl. 4, fig. 3); CKUM 3867~3872 (no figures)

An outcrop about 2 km S of Miaoli City, Miaoli District, Taiwan

Toukoshan Formation

Pleistocene

***Xestoleberis dentata* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 7~9, fig. 3

Holotype: male, FESC 496~497, Paratypes: 2 males, 6 females, 1 female valve, 1 juvenile valve (A-1 stage) (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[The figures (fig. 3) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Xestoleberis hanaii* Ishizaki, 1968**

Sci. Rep., Tohoku Univ., 2nd Ser. (Geol.), v. 40, no. 1, p. 41, 42, Pl. 9, figs. 1, 2

Holotype: LV, IGPS 90316 (Pl. 9, fig. 2), Paratype: RV, IGPS

90317 (Pl. 9, fig. 1)

St. 67 = Uranouchi Bay, Kochi Prefecture (33°25'18''N, 133°23'54''E) (mud, depth 16 m)

Recent

***Xestoleberis inabai* Okubo, 1985**

Spec. Publ. Mukaishima Marine Biological Station, no. 244, p. 123~126, figs. 1a~j, 2a~g

Holotype: CC male with appendages, MO 1692a (=NSMT-Cr 15329) (figs. 2c, d), Paratypes: CC female with appendages, MO 1692b (=NSMT-Cr 15330) (figs. 1a, b, 2a, b); CC male with appendages, MO 1707 (figs. 1c~j, 2g); CC female, MO 2000 (no figures)

The intertidal zone, rocky shore, Abratsubo, Miura-shi, Kanagawa Prefecture (35°09.2'N, 139°36.9'E) (on algae)

Recent

***Xestoleberis ishizakii* Schornikov, 1975**

Publ. Seto Mar. Biol. Lab., v. 22, nos. 1/4, p. 5~7, fig. 2

Holotype: male, FESC 494~495, Paratypes: 2 males, 10 females, 1 juvenile (A-4 stage), 3 valves (no numbers)

The intertidal zone of rocky shore, Shirahama, near the Seto Marine Biological Laboratory of Kyoto University, Wakayama Prefecture

Recent

[=*Xestoleberis sagamiensis* Kajiyama, 1913 (by Hanai *et al.*, 1977). The figures (fig. 2) in the original description (Schornikov, 1975b) cannot be correlated with each type specimen.]

***Xestoleberis iturupica* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 180~182, text-fig. 24

Holotype: CC male, FESC 420~421, Paratypes: no numbers
Sublittoral zone of Ryeyd Udobniy Bay, Okhotsk seashore of Iturup Is., Kuril Islands

Recent

[The figures (text-fig. 24) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Xestoleberis lingfengensis* Liu, 1989**

In Research party of marine geology, ministry of geology and mineral resources and institute of geology, chinese academy of geological sciences (eds.), Cenozoic Paleobiota of the continental shelf of the East China Sea, Geological Publishing House Press, Beijing, p. 160, Pl. 165, fig. 10

Holotype: CC, DJ 0057 (Pl. 165, fig. 10)

East China Sea

Lingfeng Formation

Paleocene

***Xestoleberis opalescenta* Schornikov, 1974**

Acad. Sci. USSR, Far East Br., Inst. Mar. Biol., no. 1, p. 183,

184, text-fig. 25

Holotype: CC male, FESC 422~423

Southern shore of Kunashir Island, Kuril Islands

Recent

[The figures (text-fig. 25) in the original description (Schornikov, 1974) cannot be correlated with each type specimen.]

***Xestoleberis sagamiensis* Kajiyama, 1913**

Zool. Mag. Tokyo (Dobutsugaku-zasshi), v. 25, no. 291, p. 8, Pl. 1, figs. 26~29

Holotype: not designated. (UMUT collection = all of the original type material missing)

Misaki, Miura-shi, Kanagawa Prefecture

Recent

***Xestoleberis setouchiensis* Okubo, 1979**

Proc. Japan Soc. Syst. Zool., no. 16, p. 10~14, text-figs. 2a~f, 3a~r, Pl. 1, figs. a~l

Holotype: CC male with appendages, MO 578 (=NSMT-Cr 15331) (text-figs. 2a, b, Pl. 1, figs. a~d), Paratypes: CC male with appendages, MO 515 (=NSMT-Cr 15332) (text-figs. 2c, d, 3j~r, Pl. 1, figs. g~j); CC male, MO 516 (no figures) (the specimen missing); CC female, MO 556a (text-fig. 2e); CC female, MO 556b (text-fig. 2f); CC male with appendages, MO 575 (text-figs. 3d, e, Pl. 1, figs. e, f) (the specimen missing); male appendages, MO 743 (text-figs. 3a~c, e~j) (the specimen missing); CC male, MO 747 (no figures) (the specimen missing); CC male with appendages, MO 750 (Pl. 1, figs. k, l) (the specimen missing)

The intertidal zone of rocky shore, Aioi-shi, Hyogo Prefecture (34°45.7'N, 134°28.4'E)

Recent

***Xestoleberis suetsumuhana* Yajima, 1982**

Univ. Mus. Univ. Tokyo, Bull. no. 20, p. 224~226, Pl. 15, figs. 11, 12, text-figs. 16-5, 6

Holotype: LV, UMUT CA 9913 (Pl. 15, fig. 12, text-fig. 16-5), Paratype: RV, UMUT CA 9914 (Pl. 15, fig. 11, text-fig. 16-6)

Loc. 138 = A cliff, 2.75 km NE of Higashi-yokota railway station, Sodegaura-machi, Kimitsu-gun, Chiba Prefecture (35°24'12''N, 140°03'20''E)

Yabu Formation (Kamiizumi Member)

Pleistocene

***Xiphichilus fusiformis* Hu, 1984**

Jour. Taiwan Mus. v. 37, no. 1, p. 85, 86, Pl. 8, figs. 15, 20, text-fig. 18

Holotype: RV, TNUM 8040 (Pl. 8, figs. 15, 20)

The east slope of the Hengchun West Table-land, ca. 3 km W of Hengchun city, Hengchun Peninsula, Taiwan (22°00.5'N, 120°44.1'E)

Ssukou Formation

Pleistocene

***Yezocythere* Hanai and Ikeya, 1991**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 163, p. 868, 871

Type species: *Yezocythere hayashii* Hanai and Ikeya, 1991

***Yezocythere hayashii* Hanai and Ikeya, 1991**

Trans. Proc. Palaeont. Soc. Japan, N.S., no. 163, p. 871, 872, figs. 4-1~9, 5-1~5, 6

Holotype: LV male, IGSU-O-150 (fig. 3-1a, b, 3-8a, b), Paratypes: RV male, IGSU-O-151 (figs. 4-2a, b, 4-3a, b, 4-9a, b); RV female, IGSU-O-153 (figs. 4-4a, b, 5-3a, b, 5-4a, b); RV young instars, IGSU-O-154~156 (figs. 5-5~7); LV female, IGSU-O-152 (figs. 5-1a, b, 5-2a, b, 5-5a, b); RV male, IGSU-O-681 (fig. 6)

Loc. Hayashi-818a = Northern entrance of the Kuromatusnai Tunnel of JR Hakodate Main Line, S of Kuromatusnai, Suttsu-gun, Hokkaido (42° 38' 39''N, 140° 18' 29''E)

Setana Formation

Lower Pleistocene

***Zabythocypris kurilensis* Schornikov, 1980**

Zool. Jour., v. 59, no. 2, p. 189~191, figs. 1a~s, 2h, l~n

Holotype: male, FESC 1532~1533, Paratype: 5 males, 2 females, 4 juveniles (A-1 Stage), 4 juveniles (A-2 Stage) (no numbers)

Near the Kurile-Kamchatka trough (45° 26'N, 154° 12'E) (depth 5200 m)

Recent

[The figures (figs. 1a~s, 2h, l~n) in the original description (Schornikov, 1980) cannot be correlated with each type specimen.]