

Catalogue of the Cephalopoda Specimens in the Zoology Department of Tokyo University Museum

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A catalogue of the extant specimens of recent Cephalopoda in the Museum of Tokyo University is here presented including 50 lots of recently designated type material, mostly from species described by Sasaki. Also identified are the specimens of many other species described by Sasaki in his monograph of 1929. An Appendix provides an English summary of a largely ignored nineteenth century list of the oldest specimens in the ZUMT collection, published in Japanese, for comparison with the present collection.

Introduction

A project has been completed recently to curate and identify the Cephalopoda specimens deposited in the Zoology Department of Tokyo University Museum (ZUMT). One of the main objectives was to find the type specimens of Madoka Sasaki (reported recently by Gleadall, 2003a). The present catalogue provides identifications for the entire collection, much of which was used by Sasaki in compiling his monograph on the Cephalopoda (Sasaki, 1929). These specimens were contributed by Aoki, Dean, Hara, Hibino, Iizuka, Ijima, Ikeda, Ishida, Ishikawa, Mitsukuri, Nomura, Okada, Oshima, Owston, Sakamoto, Sasaki, Shimizu, Tago, Takahashi, Terasaki, Tsuchida, Uchida, Wakiya and Watase. Many of these people were involved in collecting or teaching at Tokyo Science College (the forerunner of Tokyo University Faculty of Science) and the Marine Research Station at Misaki (Isono, 1988).

The specimens formerly belonged to the Zoology Department of Tokyo Imperial University (TIU), as it was known prior to World War II. Most were in formalin in their original containers stored in the museum basement and clearly had not been opened since Sasaki's era. The museum building was modernized in 1995 and the specimens are now preserved in 75% ethanol in a new spirit store on the fourth floor. The types are stored separately in a locked room and the specimen register is available in the Zoology research office nearby.

The preserved specimens of Cephalopoda collected in the early days of TIU were reported in a series of short articles towards the end of the nineteenth century (Ikeda, 1890a, b, 1891a–f). However, Ikeda's account seems to have been largely forgotten and was only mentioned in part even in Sasaki's comprehensive monograph. The lots listed by Ikeda are here summarized in an Appendix (see also comments in the main catalogue).

Included in the present catalogue are three lots of specimens to which manuscript names have been assigned but not published. They are here listed as unidentified octopod 'species 1' (sp. 1) and 'sp. 2.' The names probably were not published because of the state of immaturity of the specimens: there are no obvious features to distinguish them from other octopus species. A recent mention of one of the names (Okutani, 2002: 77) does not constitute publication of a new species name according to the International Code of Zoological Nomenclature (ICZN, 1999, Art. 16).

It is clear from the following catalogue that Sasaki numbered his specimens, probably in sequential lots as he inspected them. These numbers (usually prefixed 'Sa') appear on the labels of specimens in both the Hokkaido University Fisheries Museum, Hakodate (HUFM), and ZUMT. Attempts to trace Sasaki's family and original notes have been unsuccessful. Two other sets of numerical identification now accompany the specimens: register codes used during the present study (based on the date of inspection); and a three-digit code that is part of a database of all the specimens in the ZUMT collections (presently incomplete for the Cephalopoda at the time of going to press and not yet recorded on any permanent labels with the specimens).

The identifications in the catalogue presented here include some newly revised genus designations, such as *Loliolus*, *Heterololigo* and *Uroteuthis* for species formerly identified as *Loligo* (based on Anderson, 2000); and *Amphioctopus* for

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some species formerly identified as *Octopus* (based on Gleadall, 2002, 2003a, b). In some instances, species generally regarded as synonyms have been listed separately (e.g., *Sepia andreana* and *S. sasaki*; and *Uroteuthis edulis* and *U. kensaki*) to emphasize the type specimens that have recently become accessible for the first time since the original descriptions (Gleadall, 2003a). The dorsal mantle length is recorded for all specimens to facilitate their recognition in comparison with earlier publications on this collection (Ikeda, 1890a, b, 1891a–f; Ijima and Ikeda, 1895a, b, 1902; Sasaki, 1909, 1910, 1913a–c, 1914a, b, 1915, 1916, 1917a, b, 1920, 1929; Wakiya and Ishikawa, 1921).

Dates of collection and receipt: *Opisthoteuthis depressa*

It can be demonstrated that some of the specimen labels bear the date of receipt by the researcher who later published the specimen identification, rather than the actual date of collection of the specimens. This means that where published dates and the dates on labels are fairly close but do not match exactly, it is inappropriate to exclude such specimens extant in the collection from consideration as type material. The two specimens of *Opisthoteuthis depressa* are a good example about which there is little confusion. Each has labels mentioning both April and May. With specimen 996.5.45, one label states ‘22 April, 1909’, and another states (in Japanese) ‘received May 24.’ The holotype (996.5.46) bears a label with the type locality (‘Okinose’) and the collector’s name (‘Kuma’) and is dated May, 1895. In the original description, Ijima and Ikeda (1895a: 211) gave the collection date as the end of April; but in their later paper the same year (Ijima and Ikeda, 1895b: 323) they mention only that it was brought to them in May, as stated on the only remaining label. This holotype was previously reported to be no longer extant (cf. Sweeney and Roper, 1998: 577; Sweeney in Vecchione *et al.*, 2002: 85).

Sepia longipes

The syntype of *Sepia longipes* has with it a label stating that it was purchased by Mr. Shimizu in April, 1906. However, the original publication states that ‘it is recorded that Prof. Watase purchased it in August, 1906’ (Sasaki, 1913a), and subsequently Sasaki (1914a) gives the exact date as the 18th of August, 1906. The extant ZUMT specimen is closely similar in dorsal mantle length to the largest of the six syntypes and it is the only specimen in the collection from the locality Choshi, Chiba Pref. It is presumed that Shimizu purchased the specimens in April, 1906, and sold them on to Prof. Watase (of TIU) in August the same year.

Moroteuthis loennbergii

Sasaki (1929) mentioned inspecting seven specimens of *Moroteuthis loennbergii*, of which it is presumed that five were the original syntypes as described by Ishikawa and Wakiya (1914). Of the three specimens found in the ZUMT collection, one is probably a recent specimen but it could not be confirmed that the remaining specimens are syntypes (although they are from the type locality). The original description provided a large number of measurements of the specimens but the morphology of this species and the soft condition of the specimens are such that the accuracy of measurement possible is too low to enable favourable comparisons. Measurements of specimen 996.5.61 show some resemblance to those of specimen no. 3 of Ishikawa and Wakiya (1914) but specimen 996.5.61A seems quite different from any of the syntypes. It is concluded that these two older specimens are the two non-type specimens mentioned by Sasaki.

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Listed alphabetically within major groups. **Reg. No.:** Code entered in the Cephalopoda register, with any type material listed first (numbers in square brackets are those assigned during an ongoing computerization of the specimen catalogues at ZUMT: currently there are no permanent labels bearing these numbers). **Specimens:** figures in parenthesis are dorsal mantle length (DML) measurements in mm. **Collection data:** **Loc.,** locality (Japan, Honshu, Pacific coast, unless stated otherwise); clarification/modern names in square brackets; Pref. Prefecture. **Coll.,** collected/collector: dates have mostly been converted from the Japanese Meiji, Taisho or Showa years (given in parentheses as Mx, Tx or Sx, respectively) to the corresponding Gregorian year; Collector ‘Kuma’ is the nickname of Kumakichi Aoki (collector for the Misaki Marine Experimental Station; Isono, 1988); square brackets denote corrections of or additions to information on labels or in original publications. **Comments:** Type material indicated in **bold** type; **Sa,** Sasaki’s personal registration numbers included on some labels (corresponding notes of Sasaki have not been found); verbatim comments and alternate identifications in quotes are from original specimen labels (those in parentheses are from temporary labels left with the specimens by T. Okutani in the summer of 2002). Other abbreviations: ALO, descending order of arm lengths.

Octobranchia: Octopoda: Cirrata*Opisthoteuthis depressa* Ijima and Ikeda, 1895.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.46 [241]	1 male (19 mm across eyes; eye diam. 9 mm).	Loc. [Sagami Bay], Okinose, 250 fm [457 m]. Coll. 'May' [April ¹], 1895, Kuma.	Holotype by monotypy. A small, thoroughly dissected specimen. Label 'May, 1895' records date of receipt by Ijima and Ikeda. ²
996.5.45 [008]	1 ?female (43 mm across eyes; eye diam. 16 mm).	Loc. Yodomi, Sagami Sea. Coll. 22.iv.1909, Alan Owston. Yokohama: Owston Collection.	'Recd. 24 May.' cf. Pl. VII fig. 7 in Sasaki (1929).

¹Ijima and Ikeda, 1895a: 211, text figs. 1–3. ²Ijima and Ikeda, 1895b: 323, Pl. XXXIII figs. 1–9. See also Sasaki, 1929: 10, text fig. 4, Pl. VII figs. 7, 8a, b, 9.

Octopoda: Incirrata*Haliphron pacificum* (Ijima in Ijima and Ikeda, 1902) (originally as *Alloposus pacificus*).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.48 [231]	1 spec. (22)	Loc. Miura [Peninsula, Kanagawa Pref., Koajiro Bay], Mito, Hasse Village. Coll. 29.iii.1902 (M 35).	Syntype. cf. specimen of total length 54 mm. 'Alloposus pacificus Ij. n. sp. M.S.' Illustr. Sasaki, 1929, Pl. VIII fig. 6. (' <i>Haliphron atlanticus</i> *').
996.5.49 [232]	1 spec. (35)	Loc. Dokesoba [Sagami Sea, off Misaki]. Coll. 20.vi.1910, 'hooked up' by K. Aoki.	?Syntype. cf. specimen of total length 114 mm (see Gleadall, 2003a: 376).

Ref. Ijima and Ikeda, 1902: 87 (footnote by Ijima); see also Sasaki, 1929: 18, text fig. 5 (labelled *Alloposus pelagicus* in error), Plate VIII figs. 6–8. *cf. identification of Norman *et al.* 1997: 375 (based on an immature female *Haliphron atlanticum* of 73 mm mantle length reported from Indonesian waters; identified with reference to Thore, 1949; cf. also Alvarino and Hunter, 1981).

Amphitretus pelagicus Hoyle, 1885.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.47 [230]	1 specimen (93)	(no data)	Poor condition: in several pieces; most internal organs missing. See text. cf. Sasaki, 1929, Pl. VIII fig. 5. (' <i>Alloposus pacificus</i> ').

Argonauta argo Linnaeus, 1758.

Reg. No.	Specimen(s)	Collection data	Comments
996.CO-46 [004]	1 female (23)	(no data)	Shell missing.

Argonauta hians Lightfoot, 1786.

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-02 [033]	3 females (23, 9, 7)	(no data)	Part of egg mass in separate jar. Shell of large female is intact (50 mm max. diam.).

Ocythoe tuberculata Rafinesque, 1814.

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-01 [032]	2 specs. (400, 200)	Loc. Awa [Chiba Pref.?], Kashiwazaki. Coll. Nov., 1885.	cf. locs. of Sasaki 1929: 28. cf. lot. #2 of Ikeda, 1891a: 26 (giving date as Sept., 1885).
996.CO-40 [010]	1 female (135)	Loc. not given. Coll. 27.vii.1911, S. Hibino.	'ibodako.'
996.CO-41 [011]	1 spec. (95)	(no data)	cf. measurements of Sasaki, 1929: 27.
996.CO-42 [012]	1 spec. (81)	Loc. [Kanagawa Pref.], Misaki. Coll. 2.v.1898 (M31), Kuma.	cf. measurements of Sasaki, 1929: 27.
996.CO-47 [096]	2 ?females (143, 103)	Loc. Boshu [Chiba Pref.], Fuku-ura. Coll. 7.xi.1883.	Several labels in good condition (good examples for records of handwriting) cf. lot. #1 of Ikeda, 1891a: 26.

Ref. Sasaki, 1929: 26, text fig. 8, Pl. III figs. 13, 14, Pl. VIII figs. 12–16.

Tremoctopus violaceus gracilis (Eydox and Souleyet, 1852).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.59 [168]	1 female (120)	Loc. [Japan Sea], Tango Kuni [Kyoto Pref.], Tsukino-gun, Taiza [Tango] Village. Coll. 30.v.1903, Ushikubo.	Sa 126. <i>cf.</i> locs. of Sasaki, 1929: 32.
996.CO-43 [013]	1 female (129)	Loc. [Kyushu], Kagoshima. Coll. Aug. 1903 (M36).	—
996.CO-44 [002]	1 female (83)	Coll. 29.ix.1900.	—
002.12.4.1 [109]	1 female (26)	Coll. April, 1902 (M35).	Attached to a white board for display.

Ref. Sasaki, 1929: 29, text figs. 9, 10, Pl. VIII figs. 17–19.

Incirrata: Octopodidae*Amphioctopus cf. aegina* (Gray, 1849).

(Genus *Amphioctopus* Fischer, 1832, revived by Gleadall, 2002, 2003a, b; redescription submitted).

Reg. No.	Specimen(s)	Collection data	Comments
996.9.2 [102]	8 males (37–45), 4 females (40–49).	Loc. Tokyo, Tsukiji market.* Coll. 17.ix.1996, I.G.Gleadall.	All specimens have a thin chevron head bar. Pseudophallus type C (Gleadall, 2002).

*Probably not from Japanese waters. Condition fair, despite prompt fixation: probably deep-frozen and thawed (imported from S.E. Asia?).

Amphioctopus fangsiao (d'Orbigny, 1841).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-03 [275]	1 male (41)	Loc. [Kyushu], Nagasaki.	Syntype of <i>Octopus fangsiao fangsiao</i> (originally as <i>Polypus fangsiao typicus</i> Sasaki, 1929: 53). Illustrated Pl. III figs. 19, 20 of Sasaki, 1929.*
994.CO-04 [270]	4 males (49, 38, 36, 31), 6 females (50, 48, 44, 43, 42, 38).	Loc. Tokyo Bay, Ohmori [nr. Haneda]. Coll. 7.v.1906, Kitaro Shimizu.	Syntypes of <i>Octopus fangsiao fangsiao</i> .
994.CO-05 [271]	4 females (51, 50, 48, 22); 3 mature with vitellogenic eggs, 1 immature	Loc. Tokyo market. Coll. 7.xii.1882 (M 15).	Syntypes of <i>O. fangsiao fangsiao</i> . <i>Octopus ocellatus</i> lot #1 of Ikeda (1891a: 25; as 2 males, 2 females).
994.CO-06 [272]	1 female (38, mature with eggs).	Loc. [Kyushu], Bungo [Oita Pref.], Beppu. Coll. March, 13.iii.1899 (M 32), Terasaki.	Syntype of <i>O. fangsiao fangsiao</i> . Originally with <i>O. minor</i> 994.CO-07.
996.3.1 [041]	2 males (38, 36).	Loc. [Kyushu, Ariake Sea, Fukuoka Pref., Yanagawa City], Okinohata fish market. Coll. 8.x.1902?	?Syntypes of <i>O. fangsiao fangsiao</i> (<i>cf.</i> Sasaki's lot 'Fukuoka').
994.CO-08 [034]	1 ?female (18)	Loc. not stated. Coll. 1879 (M 12).	'1 small specimen <i>O. ocellatus</i> .' Poor condition. With two specimens of ' <i>Octopus</i> ' <i>minor</i> .
996.3.2 [042]	1 female (49, mature).	'Oshima Research Laboratory, 1950'.	Recent material.
996.3.3 [043]	1 male (37).	Coll. 1–5.iv.1960, East China Sea Agriculture, Forestry and Fisheries. Loc. Area 319–320.	Recent material. (' <i>Octopus areolatus</i> , yotsumedako').
996.3.6.1 [047]	3 males (51, 37, 35), 1 female (29).	(no data)	Recent material?
996.3.7 [050]	1 male (20.5), juv.	(no data)	Very small but each of arms 2 and 3 has two massive suckers.
996.3.13.2 [280-2]	1? female (21).	Loc. Kanagawa. Coll. 12.vi.1906 (M 39)	Sa 39. Poor condition. Originally with 6 <i>Euprymna berryi</i> .
997.6.1 [175]	1 female (46)	Loc. [Hokkaido, Hakodate?].	Poor condition. (Recent material?). Originally with <i>Octopus</i> sp. 996.5.42.
000.3.31.1 [219]	1 female (c. 55).	(no data)	A lot including also one ' <i>Octopus</i> ' <i>longispadicus</i> and two ' <i>Octopus</i> ' <i>minor</i> .

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Amphioctopus fangsiao, continued

Reg. No.	Specimen(s)	Collection data	Comments
000.3.31.4.1 [222-1]	1 male (38, submature).	Loc. [Ishikawa Pref.], Togi. Coll. 24.9.1927, Uchida.	(not part of Sasaki's collection). Originally with a <i>Loliolus japonicus</i> .
002.12.4.4 [009]	1 female (37, submature).	(no data)	(<i>Octopus</i> sp.).
995.12.1	15 females (34–59, submature ovaries), 12 males (34–58, mature).	Loc. Uncertain. Coll. Nov., 1995.	Sent by postal freight to I. Gleadall by Y. Yamazaki of Tsukiji market, Tokyo. Delivered to Tokyo by Yamaharu Co., Urayasu, Chiba Pref., in boxes labelled 'Fukushima Pref., Iwaki.' (imported?).

Ref. Sasaki, 1929: 49, text figs. 18, 19, Pl. X figs. 1a, b, 2a–c, 3a,b. **Polypus* is a suppressed name (ICZN, 1954). The legend to Pl. III figs. 19 and 20 describes this specimen as subspecies *Polypus fangsiao etchuanus* but Sasaki qualified this identification on p. 55 as 'with great doubt', so this specimen is excluded as type material for variety [subspecies] *etchuanus*. Sasaki included the locality 'Nagasaki' among specimens inspected by him for both subspecies but this is the only known specimen of Sasaki's from Nagasaki. It therefore appears that Sasaki included it among the specimens by which he defined *O. fangsiao fangsiao* (as *P. f. typicus*).

Amphioctopus cf. *kagoshimensis** (Ortmann, 1888) (*Octopus granulatus* Lamarck sensu Sasaki, 1929).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-23.1 [099-1]	1 male (84), 1 female (102).	(no data)	Female is distorted and reproductive system has been removed. Originally with two <i>O. vulgaris</i> .
994.CO-32.2 [023-2]	1 male (40, mature)	Loc. [Kyushu] Kagoshima fish market. Coll. 29.iii.1896, Mitsukuri and Hara, via Mr. Miyajima.	cf. Sasaki, 1929: 41 'with great hesitation.' Illustrated by Sasaki, 1929: Pl. III fig. 18. Male reproductive system illustrated in Pl. IX fig. 13. (<i>Octopus vulgaris</i>). Included with one <i>Octopus</i> cf. <i>vulgaris</i> .
994.CO-36 [027]	3 males (69, 59, 53, mature); 2 females (52, 42, submature).	Loc. Kagoshima. Coll. 29.iii.1896 (M 29), Mitsukuri and Hara.	' <i>Polypus granulatus</i> Lam.' Loc. listed by Sasaki, 1929: 40.
994.CO-37 [028]	5 males (83, 72, 70, 67, 63).	Loc. Boshu [Chiba Pref.]. Coll. May, 1906, bought from Kintaro Shimizu.	(ditto)
001.10.2.2 [053]	1 male (45)	Coll. 1960?	Very small ligula (4 mm). Originally with one <i>M. loennbergii</i> , two chiroteuthids and a loliginid. " '60–355" [coll. 1960?; Lot #355?].

Ref. Sasaki, 1929: 40, Pl. III fig. 18, Pl. IX figs. 11–13, Pl. XXIX figs. 2, 3. See also present paper under *Octopus* cf. *vulgaris*. *Some recent labels use the spelling '*kagoshimensis*' but the final 'a' of Kagoshima should not be included (cf. China and species group name *chitensis*).

Amphioctopus marginatus (Taki, 1964).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-39 [100]	1 male (81)	1 old field label: '34° 9' 23 ¹² [Area] 330. tako.'	Arms IV truncated. Colour very dark.

cf. Taki, 1964: 304, text figs. 47–48, Pl. 5 figs. 1, 2.

Amphioctopus ovulum (Sasaki, 1917).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-30 [021]	1 male (21), 1 juv. (7.5).	Loc. Chōsen Kaikyō [Straits of Korea]. Coll. Mr. Kumada (undated).	—
996.3.6.2 [048]	1 female (46)	(no data)	(recent material?)

cf. Sasaki, 1917b: 364; 1929: 55, text figs. 20, 21, Pl. X figs. 11–15 (as *Polypus ovulum*).

Amphioctopus robsoni (Adam, 1941).

Reg. No.	Specimen(s)	Collection data	Comments
996.9.1 [101]	15 males (36–45), 2 females (44, 42, mature with eggs)	Loc. Tokyo, Tsukiji market. Coll. 17.ix.1996, I.G.Gleadall.	Probably not from Japanese waters. Condition fair, despite prompt fixation: probably deep-frozen and thawed (imported from S.E. Asia?).

These were purchased in an attempt to obtain more specimens of *A. ovulum*, since 'Tokyo market' was the source of the type specimens listed by Sasaki (1917b, 1929). Although recorded in the scientific literature as a species apparently confined to the Red Sea, *A. robsoni* is in fact abundant throughout the tropical Indo-West Pacific region (Gleadall, 2003b.; redescription submitted.; cf. Gleadall, 2002: 72).

Amphioctopus sp. (without ocelli).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-22 [014]	1 female (30), 2 juv. (17, 9).	Loc. [Seto Sea], Bingo [Hiroshima Pref.] Tomonotsu. Coll. summer, 1882 [Mitsukuri, fide Ikeda].	<i>cf. Octopus octopodia</i> lot. #2 of Ikeda, 1890a: 481. (' <i>Octopus kagoshimensis</i> ').
994.CO-35 [026]	1 female (57).	Loc. [Kyushu], Kagoshima market.	Originally with three <i>Octopus cf. vulgaris</i> .

Hapalochlaena fasciata (Hoyle, 1886).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-17 [273]	1 female (37).	Loc. Aburatsubo Bay, Misaki. Coll. 4.i.1898, Kumakichi.	Illustrated in Sasaki (1929) Pl. XI fig. 1.
994.CO-18 [274]	2 females (20,8).	Loc. Kanagawa Pref. Misaki. Coll. Aug. 1897. (M.30)	Sasaki, 1929: 58; and <i>cf.</i> 1 male (VML 26), 1 juv. (13), <i>fide</i> Sasaki, 1929: 60. Found dried out (VML 16, 7).

Inspection of the holotype of *H. fasciata* provides no reason to doubt that these Japanese specimens are the same species, despite the punctuated distribution of known specimens in Honshu (Japan), Hong Kong and eastern Australia (*cf.* Norman and Hochberg, 1994; Gleadall, 1997). Ref. Sasaki, 1929: 58, Pl. XI figs. 1–3 (as *Polypus fasciatus*). *cf.* Hoyle, 1886: 94, Pl. VIII fig. 3; Roper and Hochberg, 1988: 167, figs. 11, 12, Table 5.

'*Octopus*'¹ *minor* (Sasaki, 1920) (Subspecies distinctions not supported). (*O. macropus* group)

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-07 [035]	1 female (65).	Loc. [Kyushu], Bungo [Oita Pref.], Beppu. Coll. 13.iii.1899 (M 32), Terasaki.	Syntype of <i>Polypus variabilis typicus</i> Sasaki, 1929 (= <i>Octopus minor variabilis</i>). ' <i>Octopus macropus</i> Risso.' Originally with <i>A. fangsiao</i> 994.CO-06.
994.CO-09 [237]	1 male (45), 1 female (49). (both immature).	Loc. [Seto Sea] Bitchu [Okayama Pref.], Yukashima. Coll. summer, 1882 (M 15), Kikuchi.	Syntypes of <i>O. minor variabilis</i> (see above) ' <i>Octopus cuvier</i> Orbigny.' Ikeda, 1890b: 529, <i>O. macropus</i> lot #5.
994.CO-10 [036]	6 males (61–72).	Loc. Tokyo Bay, Haneda. Coll. 21.vi.1882.	Syntypes of <i>O. m. variabilis</i> (see above). <i>cf.</i> <i>O. macropus</i> lot #1 of Ikeda, 1890b: 529.
994.CO-11 [037]	1 male (72, mature), 2 females (60, 56).	Loc. Tokyo market. Coll. 7.xii.1882.	Syntypes of <i>O. m. variabilis</i> (see above). ' <i>O. pusillus</i> Gould.' ' <i>Polypus macropus</i> Risso.' <i>O. macropus</i> lot #2 of Ikeda, 1890b: 528–529.
994.CO-16 [045]	2 females (63, 50, submature).	Loc. [Seto Sea, Okayama Pref.], Kojima Bay. Coll. 26.xii.1906.	Syntypes of <i>O. m. variabilis</i> (see above). ' <i>Polypus macropus</i> Risso.' Small ovary and small, developing eggs.
996.3.9 [055]	2 males (84, 76), 1 female (96).	Loc. Tokyo Bay. Coll. 26.iv.1906.	Syntypes of <i>O. m. variabilis</i> (see above).
994.CO-08 [034]	2 ?females (31, 26).	Loc. not stated. Coll. 1879 (M 12).	' <i>O. pusillus</i> ' (<i>cf.</i> Ikeda, 1890b: 528). With one specimen of <i>A. fangsiao</i> .
994.CO-15 [040]	4 males (85, 77, 75, 69).	Loc. Haneda. Coll. 25.iv.1906.	Dissected. ² ' <i>Polypus macropus</i> .' ' <i>Octopus macropus</i> Risso.'
994.CO-45 [003]	1 male (85, mature).	(no data)	—
997.7.1 [176]	1 female (83, mature with eggs).	(no data)	Eggs are vitellogenic (length approx. 11 mm). Label '24' tied to specimen.
000.3.31.1 [219]	2 ?females (80, 56).	(no data)	Poor condition. With one <i>A. fangsiao</i> and one ' <i>Octopus longispadiceus</i> '.
000.4.28.3.1 [223-1]	2 males (69, 68).	(no data)	From a mixed lot with two species of <i>Sepia</i> , <i>Sepiella japonica</i> and <i>Loliolus japonicus</i> .

Ref. Sasaki, 1929: 90, text figs. 47, 48, Pl. I fig. 9, Pl. III fig. 21, Pl. XII figs. 13, 14a, b. ¹*Eledoneta filholiana* Rochebrune, 1884b, was identified by Norman, 1993: 306, as a member of the '*Octopus*' *macropus* group, based upon which *Eledoneta* is a candidate genus name for this group of octopuses. However, subsequent papers by Norman have not used this identification (*e.g.*, Norman and Sweeney, 1997) and no alternative name has been published. ²Reproductive organs removed from two specimens. Only one has an intact ligula (others still have distinct copulatory groove down arm 3).

'Octopus' oshimai (Sasaki, 1929). (*O. macropus* group)

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-13 [038]	1 female (50, mature with eggs)	Loc. [Taiwan Straits], Hôkôto (Hôkô Islands, = P'eng-hu Lieh-tao, = Pescadores). Coll. 1897?	Poor condition. ' <i>Polypus macropus</i> Risso?' (<i>'Octopus minor'</i>).

Ref. Sasaki, 1929: 44, text fig. 16, Pl. XXVIII figs. 1–5, Pl. XXX fig. 12.

'Octopus' pardalis (Sasaki, 1929). (*O. macropus* group)

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-19 [238]	1 male (51, submature).	Loc. Awa Province [Chiba Pref.], Kominato. Coll. Apr., 1885 (M.18), Ishikawa.	Holotype by monotypy. Ligula missing. <i>O. macropus</i> lot #4 of Ikeda, 1890b: 529.

Ref. Sasaki, 1929: 94; Pl. XII figs. 15, 16 (as *Polypus variabilis pardalis*).

'Octopus' sp. (*O. macropus* group)

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-14 [039]	1 male (121).	Loc. Misaki, 130 hiro (fm) [238 m]. Coll. Kuma.	<i>cf. O. minor</i> but ligula is different (regenerating?) and no papillae above eyes.

'Octopus' longispadiceus (Sasaki, 1917) (not genus *Octopus* Cuvier or the '*Octopus macropus* group')*.

Reg. No.	Specimen(s)	Collection data	Comments
000.3.31.1 [219]	1 male (50).	(no data)	Poor condition. With a female <i>A. fangsiao</i> and two <i>'Octopus' minor</i> .

Ref. Sasaki, 1917b: 366; 1929: 79, text fig. 38, Pl. XI figs. 17–19; Gleadall, 1993: 153. *In size, gross morphology and in the anatomy of the pseudophallus, this species most closely resembles the inkless Atlantic species *Muusoctopus januarii* (Hoyle): see Gleadall (2004).

Octopus parvus (Sasaki, 1917).

Reg. No.	Specimen(s)	Collection data	Comments
996.3.5 [046]	1 female (18, mature).	(no data)	'— teaching lab. specimen' (in Japanese). Labels illegible. '5' (<i>'Octopus berenice'</i>)*.

Ref. Sasaki, 1917b: 365; 1929: 38 (as *Polypus parvus*). *Different from *O. berenice* Gray, 1849.

Octopus cf. vulgaris Cuvier, 1797 (*cf. O. sinensis* d'Orbigny, 1841).

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-23.2 [099-2]	1 male (48), 1 female (63).	(no data)	Originally with two <i>A. cf.</i> <i>kagoshimensis</i> (see 994.CO-23.1).
994.CO-24 [015]	1 ?female (35).	Loc. Echizen [Fukui Pref.], Sakai Port. Coll. July, 1885 (M 18), [Okada, <i>vide</i> Ikeda].	This locality (and 'Ikeda') listed by Sasaki, 1929. Ikeda, 1890a: 479, <i>Octopus octopodia</i> lot #6. Beaks removed.
994.CO-26 [017]	1 female (52).	Loc. Boshu [Chiba Pref.]. Coll. 7.v.1906 M 39), Kentarô Shimizu.	Body twisted to right side.
994.CO-27 [018]	1 male (90, mature).	Loc. [Kyushu], Kagoshima. (undated).	<i>'Octopus granulatus Lam.'</i> <i>cf.</i> Sasaki, 1929: 41, Pl. IX fig. 2. Dissected male organs included in a separate container.
994.CO-28 [019]	1 male (49).	Loc. [Japan Sea], Tango Kuni [Kyoto Pref.], Miyazu Bay. Coll. 6.vii.1903 (M 36), Iizuka.	Sa 66. This locality listed by Sasaki, 1929.
994.CO-29 [020]	1 female (70).	Loc. [Kanagawa Pref.], nr. Misaki Marine Biological Station. Coll. Mid-Aug., 1902 (M 35).	<i>'octopodia?'</i> 'Purchased from near the Misaki Experimental [Marine Biological] Station.' Good condition. Arm L1 regenerating at base.
994.CO-32.1 [023-1]	1 male (37, submature)	Loc. [Kyushu] Kagoshima fish market. Coll. 29.iii.1896, Mitsukuri and Hara, <i>via</i> Mr. Miyajima.	Originally with one <i>A. cf.</i> <i>kagoshimensis</i> .
994.CO-35 [026]	1 male (47), 2 females (51, 49). Submature.	Loc. [Kyushu], Kagoshima market.	Opened and partly dissected. With one <i>Amphioctopus</i> sp. (<i>'Octopus madokai</i> <i>sagamidako'</i>).
994.CO-38 [056]	1 male (107, submature)	Loc. [Kyushu], Kagoshima Coll. Aug., 1903 (M 36), Kagoshima Pref. Govt. (donation).	This locality listed by Sasaki, 1929. ' <i>Polypus</i> <i>vulgaris</i> Lam., Kagoshima.' ' <i>Octopus granula-</i> <i>tus</i> Lam., Kagoshima.'

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Octopus cf. vulgaris, continued

Reg. No.	Specimen(s)	Collection data	Comments
996.3.4 [044]	1 male (59, mature).	(no clear data)	'51-52 天 9-13 入港'
996.3.6.3 [049]	1 female (63).	(no data)	Poorly fixed. (not Sasaki material?).
001.10.1 [031]	1 juv. (9).	Loc. Kagoshima Bay, Osumi, Sakurajima, in front of Kurokami. Coll. 1.iv.1896 (M 29), Mitsukuri and Hara.	This locality listed by Sasaki, 1929, both as 'Sakurajima' and 'Osumi.'
001.10.5 [030]	1 juv. (29).	(no data)	' <i>Octopus vulgaris</i> Lam.'

Ref. Sasaki, 1929: 35, text figs. 11, 12, Pl. IV fig. 1, Pl. IX figs. 1-3, Pl. XXIX fig. 1.

Unidentified Octopodidae

Reg. No.	Specimen(s)	Collection data	Comments
994.CO-12 [001]	2 males (26, 20).	Loc. [Taiwan Straits], Hôkôto [Hôkô Islands, = P'eng-hu Lih-iao, = Pescadores]. Coll. Jan. 1897 (M 30).	' <i>Polypus macropus</i> .' Small, globular mantle; head almost as broad as mantle. ('Taiwan dako. ? <i>Octopus oshimai</i> ').
994.CO-20 [058]	1 female (119), 1 male (106, mantle only)	(no data)	<i>O. ? hongkongensis</i> Hoyle <i>sensu</i> Gleadall, 1993: 148, Table 1, ref. #92/2.
994.CO-21 [054]	1 female (124)	Loc. [Kyushu], Kagoshima. Coll. Aug., 1903 (M 36).	Gift from Kagoshima Pref. Govt. <i>O. ? hongkongensis</i> Hoyle <i>sensu</i> Gleadall, 1993: 148, Table 1, ref. #92/1.
994.CO-25 [016]	1 juv. (19).	(no data)	Several arms truncated. ' <i>O. cuvieri</i> young.'
994.CO-31 [022]	1 ?male (29) 1 juv. (12).	Loc. Boshu [Chiba Pref.], Kominato Coll. Apr., 1885 (M.18), [Ishikawa, Okada, <i>vide</i> Ikeda].	This locality listed by Sasaki, 1929, for <i>O. vulgaris</i> . cf. <i>Octopus octopodia</i> lot #8 of Ikeda, 1890a: 481.
994.CO-33 [024]	1 male (29), 1 juv. (19).	Loc. Suruga [Shizuoka Pref., Numazu City], Enoura. Coll. Apr. 1884 (M 17).	This locality listed by Sasaki, 1929, for <i>O. vulgaris</i> . <i>Octopus octopodia</i> lot #3 of Ikeda, 1890a: 481. cf. 994.CO-12.
994.CO-34 [025]	1 female (22, submature).	Loc. [Kyushu], Hyuga [Miyazaki Pref.], Ariake Bay, Natsu Beach. Coll. 13.iv.1896, Mitsukuri and Hara.	Jar labels include 'octopodia' [cf. <i>Octopus vulgaris</i>] and ' <i>Octopus granulatus</i> '. (' <i>Octopus kagoshimensis</i> . Sunadako').
996.3.8 [051]	1 female (30) with small eggs.	Loc. not given 'Saghalien Collection, 1906.'	Arms subequal. (' <i>Octopus berenice</i> Gray, mamedako').
996.5.42 [029]	1 male (46).	Loc. [Hokkaido, Hakodate?].	'Holotype' of sp. 1. (unpublished). ¹ Wooden tag '42' (in Chinese characters). Originally with 1 female <i>A. fangshiao</i> (997.6.1). (' <i>Octopus hokkaidensis</i> '). ²
996.5.43 [078]	2 females (both 38, immature).	Loc. [Kyushu], Kagoshima market. Coll. 29.iii.1896, Mitsukuri and Hara	'Co-type' of sp. 2 (unpublished). ¹
996.5.44 [007]	1 female (40, mature with eggs 7.5 mm long).	Sagami [Kanagawa Pref.], Enoshima.	'Co-type' of sp. 2. (unpublished). ¹ cf. <i>Octopus macropus</i> lot #6 of Ikeda, 1890b: 528. ('probably <i>O. minor</i> ').
000.3.31.5 [227]	1 spec. (35).	20.vi.1964?	'W. 1500M 20/6' 39' 7'. (' <i>Benthooctopus</i> sp., chihirodako'). ³
001.10.5 [030]	1 juv. (29).	(no data)	' <i>Octopus vulgaris</i> Lam.'
002.12.3.1 [006]	1 spec. (22)	Loc. Heda. Coll. Dec., 1936.	'8'. ('? <i>Octopus megalops</i> '). MW 19; head very large (HW 20). cf. <i>O. spinosus</i> Sasaki, 1920).
003.3.11 [005]	1 female (40, mature with eggs).	Loc. Izu [Shizuoka Pref.], Kona. Coll. 14.x.1899, Ôsuton [Owston].	'OC-5366.' A gift from Mr. Owston. (' <i>Octopus luteus</i> (Sasaki, 1929), same-hada tenagadako'). ⁴
003.3.12	3 juv. (9.0, 7.0, 4.5).	Loc. Boshu [Chiba Pref.], Kominato. Coll. April, 1885 (M 18).	Three very small specimens, all different species.
004.8.1 [218]	2 males (21, 16)	Coll. 14.viii.1906.	Saghalien Collection. 'Chebisani.' '10.'

¹See Introduction. ²The type of *O. hokkaidensis* (Berry) [= *O. glaber* (Sasaki, 1920)] has no ink sac but this specimen has, so identification as '*Octopus hokkaidensis*' is doubtful. ³Ink sac present. Not a species of *Benthooctopus* Grimpe, which is a junior synonym of *Bathypolypus* Grimpe (see Muus, 2002). ⁴This specimen has large eggs, approx. 10 mm long, so it cannot be '*Octopus luteus*' (a *macropus* group species with small eggs, approx. 1 mm long).

Decabrachia: Sepiolida: Sepiolidae

(Measurements of DML are to the fusion point of the dorsal mantle with the head.)

Euprymna berryi Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
996.CD-07 [276]	2 females (33, 29).	Loc. [Kyushu] Nagasaki.	Syntypes. Originally with <i>A. fangsiao</i> 994.CO-03.
996.3.10 [277]	3 males (15, 13.5, 8.0), 4 females (22, 12, 10, 9.5).	Loc. [Kyushu], Hyuga Prov. [Miyazaki Pref.], Hososhima [Bay]. Coll. 15.iii.1899.	Syntypes. Sa 47. '12'.
996.3.11 [278]	1 female (25).	Loc. [Japan Sea, Hyogo Pref.], Miyazu Bay. Coll. 9.vii.1903.	Syntype. Sa 42. '13'.
996.3.12 [279]	5 females (31–37).	Shimo-osa [Chiba Pref.], Horii. Coll. 2.v.1906.	Syntypes. Sa 38. '14'.
996.3.13.1 [280-1]	6 females (38–50).	Loc. Kanagawa. Coll. 12.vi.1906 (M 39).	Syntypes. Sa 39. '15'. Originally with one <i>Amphioctopus fangsiao</i> .
002.10.25.3 [252]	1 male (24) 1 female (25).	Loc. [Osaka Bay], Awaji [Island], Tsuna-gun, Sumoto. (undated).	Syntypes. Sa 45. ' <i>Euprymna morsei</i> .' cf. <i>E. morsei</i> lot #3 of Ikeda, 1891b: 62–63.
002.10.25.4 [253]	2 specs. (21, 13).	Loc. Bungo [Oita Pref.], Beppu. Coll. 13.iii.1899 (M 32), Terasaki.	Syntypes (1 missing). Sa 48. ' <i>Euprymna scolopes</i> .'
002.10.25.5 [251]	1 male (14).	Loc. [Kanagawa Pref.], Misaki. Coll. Dec., 1882.	Syntype. Sa 37.
997.3.3 [247]	1 female (21).	Loc. Sagami Bay, 6 miles off Misaki. Coll. 5.viii.1906.	Sa 12. Originally with 9 specimens of <i>Eucleoteuthis luminosa</i> .

Ref. 1929: 143, text fig. 88, Pl. XV figs. 12, 13a, b. See also *E. morsei* (Verrill) *sensu* Sasaki, 1913b: 247, text fig. 1; 1914a: 589, Pl. XI figs. 1–4.

Euprymna sp.*

Reg. No.	Specimen(s)	Collection data	Comments
002.10.24.3 [226]	1 spec. (39)	(no data)	' <i>Euprymna morsei</i> .'
002.10.24.4 [255]	14 specs. (8–19)	(no data)	' <i>Euprymna scolopes</i> Berry.' Sa 49. Very poor condition, disintegrating.
002.10.25.1 [263]	1 ?female (15)	(no data)	(' <i>Euprymna berryi</i> ').

*Note that the dimensions listed for the types of *E. similis* Sasaki, 1913, exclude all the specimens listed here from possible type material of *E. similis*.

Rossia pacifica Berry, 1911.

Reg. No.	Specimen(s)	Collection data	Comments
996.3.15 [052]	1 male (49), 2 females (63, 46), 1? (42).	Loc. [Hokkaido], Hakodate. Coll. 21.i.1908 (M 41).	Poor condition. Syntypes of <i>Rossia borealis</i> Sasaki, 1913c: 400 (also as a <i>nomen nudum</i> : Sasaki, 1913b: 247). Sa 57. '17'.
996.6.164.1 [182-1]	2 males (31, 31), 1 ?female (42).	Loc. [Suruga Bay, Izu Peninsula, Shizuoka Pref.], Heda. Coll. Dec., 1936.	Originally with 4 <i>Sepiolina nipponensis</i> .

Ref. Berry, 1911: 591; Sasaki, 1913c: 399; 1929: 154, text figs. 92–94, Pl. XVI figs. 3–6. Sasaki, 1929: 157, contrasted *R. pacifica* with *R. borealis*, concluding that the latter are aberrant forms of the same species.

Sepiola sp.

Reg. No.	Specimen(s)	Collection data	Comments
002.10.25.2 [264]	2 females (15, 15).	(no data)	(' <i>Sepiola birostrata</i> ').

Sepiolina nipponensis (Berry, 1911).

Reg. No.	Specimen(s)	Collection data	Comments
996.6.164.2 [182-2]	2 males (25, 24), 2 females (26, 20).	Loc. [Shizuoka Pref.], Heda. Coll. Dec., 1936.	Originally with 3 <i>Rossia pacifica</i> .

cf. Sasaki, 1929: 149, text figs. 90, 91, Pl. XV figs. 15, 16a, b, 17, Pl. XVI figs. 1, 2.

Idiosepiidae*Idiosepius paradoxus* (Ortmann, 1888).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.73 [163]	11 specs. (largest 14.5)	Loc. [Seto Sea, Hiroshima Pref.], Onomichi, Koutajima. Coll. May, 1906 (M 39).	<i>cf.</i> specimens listed by Sasaki, 1914a: 600 (6 specimens, Misaki; 4 specimens Inland [Seto] Sea).

cf. Sasaki, 1914a: 599; 1923: 213; 1929: 133, text figs. 78–79 (labelled *Idiosepius pygmaeus*), Pl. XV figs. 1–3.

Sepiida: Sepiadariidae*Sepiadarium kochii* Steenstrup, 1881.

Reg. No.	Specimen(s)	Collection data	Comments
996.3.14 [057]	1 male (15, mature)	Loc. Suruga [Suruga Bay, Shizuoka Pref., Numazu], Enoura. Coll. April 1884 (M 17)*, Mitsukuri and Ishikawa.	' <i>Sepiadarium</i> sp.' Sa 51. <i>cf.</i> lot #1 of Sasaki, 1914a: 598. 'April, 1886'.* '16'.
002.10.24.1 [260]	3 males (17, 16, 16).	Loc. [Kyushu], Bungo [Oita Pref.], Beppu. Coll. 13.iii.1899 (M 32), Terasaki.	Sa 53. Lot #3 of Sasaki, 1914a: 598.

cf. Sasaki, 1914a: 597; 1929: 152, Pl. XV figs. 18, 19. *Date incongruency: 'April, 1886' written in English on reverse of label but original Japanese script states 'Meiji 17' which was 1884.

Sepiida: Sepiidae

[Sasaki's 'DML' in sepiids excluded the rostrum in his paper of 1914a, p. 608, but measurements in the 1929 monograph included it]

Sepia andreana Steenstrup, 1875.

Reg. No.	Specimen(s)	Collection data	Comments
000.4.28.3.3 [223-3]	3 males (91, 86, 85).	(no data)	From a mixed lot with ' <i>Octopus</i> ' <i>minor</i> , <i>S.</i> <i>cf.</i> <i>lycidas</i> , <i>Sepiella japonica</i> and <i>Loliolus japonicus</i> .

cf. specimen DML 85mm of Sasaki, 1913a. Ref. Sasaki, 1913a: 75, Pl. II figs. 1–8; 1914a: 613; 1929: 196, Pl. I fig. 6, Pl. XVIII figs. 12, 13. The only species of *Sepia* found in Aomori Pref., northern Honshu. Compare with *S. sasakii* Wakiya and Ishikawa, 1921; see below.

Sepia appelloefi Wulker, 1910.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.130 [192]	1 male (78), 1 female (54).	Loc. [Kyushu], Kagoshima. Coll. April, 1896 (M 29), Mitsukuri.	<i>cf.</i> lot#1 of Sasaki, 1913a, 1914a. Not illustrated.

Ref. Sasaki, 1913a: 82, text figs. 9, 10; 1914a: 618; 1929: 184, text fig. 106, Pl. XVII figs. 10, 11a, b, 12.

Sepia aureomaculata Okutani and Horikawa in Okutani, Tagawa and Horikawa, 1987.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.131 [206]	1 female (111, mature), 1 juv. (65).	Loc. [Suruga Bay, Izu Peninsula, Shizuoka Pref.], Heda. Coll. Dec., 1936.	Ref. Okutani <i>et al.</i> , 1987: 62, text figs. 16A–F.

Sepia erostrata Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
994.CD-05 [243]	1 mature male (43).	Loc. Sagami Bay, Manazuru. Coll. 23.iii.1915 (T 4), M. Sasaki.	Holotype by monotypy. Ref. Sasaki, 1929: 183, Pl. XVII figs. 7a, b, 8, 9a–c.

Sepia esculenta Hoyle, 1885.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.63.2 [107-2]	1 female (230).	Loc. [Kyushu], Kagoshima. Coll. Aug., 1903.	In same lot as 3 <i>Sepioteuthis lessoniana</i> .
996.6.147 [208]	1 female (148).	Loc. [Japan Sea, Kyoto Pref.], Miyazu Bay.	Sa 88. <i>cf.</i> lot #2 of Sasaki, 1914a.
996.6.148 [209]	1 male (116), 1 female (108).	Loc. Yahata Bridge.	—
996.6.149 [214]	2 males (115, 89).	Loc. [Kanagawa Pref.], Misaki. Coll. Dec., 1908.	Sa 85.
996.6.150 [202]	2 females (85, 83), 3 juv. (44, 41, 32)	(no data)	'S1–S2 天 9-3 入港'

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Sepia esculenta, continued

Reg. No.	Specimen(s)	Collection data	Comments
996.6.151 [205]	8 specs. (53–83).	Loc. Misaki.	Sa 104. ('all young').
996.6.152 [215]	1 female (138).	Loc. [Kyushu], Satsuma [Kagoshima Pref.], Komenotsu.	Sa 89.
996.6.153 [203]	2 specs. (87, 82).	Loc. Tokyo market.	—
996.6.157 [103]	17 specs. (72–170).	Loc. Tokyo market.	Sa 84. <i>cf.</i> Sasaki, 1910: 367 and lot #1 of Sasaki, 1914a.

Ref. Sasaki, 1910: 367, Pl. 12 figs. 14A, B; Pl. 13 fig. 1; 1914a: 611; 1929: 175, Pl. 1 fig. 5, Pl. XVI figs. 15a, b, 16, 17.

Sepia formosana Berry *sensu* Sasaki, 1929: 165.

Reg. No.	Specimen(s)	Collection data	Comments
001.10.4 [183]	3 ?males (119, 108, 87).	(no data)	Regular large and small white spots; fin bars (<i>cf.</i> Sasaki, 1929, text fig. 165A). <i>cf.</i> <i>S. subaculeata</i> (pars?). Loc. Taiwan?

cf. Sasaki, 1929: 165, text figs. 165A–E, 166, Pl. XXX figs. 9–11.

Sepia kubiensis andreanoides Hoyle *sensu* Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.134 [194]	15 specs. (45–71).	(no data)	'hime kôika' [lesser cuttlefish]. Some specimens dissected. Body (sepion) rather broad <i>cf.</i> <i>S. k. kubiensis</i> .

cf. Sasaki, 1929: 206, text figs. 112–114, Pl. I fig. 7, Pl. XIX figs. 5, 6a, b, 7.

Sepia kubiensis beppuana Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.139 [244]	7 specs. (57, 56, 54, 50, 49, 55, 49).	Loc. [Kyushu], Bungo, [Oita Pref.], Beppu. Coll. 12.iii.1899 (M 32), Terasaki.	Syntypes. 2 sepions (one 79 mm long; other broken).
002.10.24.2 [258]	2 specs. (18, 16).	Loc. [Kyushu], Oita [Pref.]. Coll. 13.iii.1899, Terasaki.	Syntypes. ' <i>Sepia (Doratossepion) kubiensis.</i> ' <i>cf.</i> <i>S. kubiensis</i> (juv.). 'teguri.'

Ref. Sasaki, 1929: 211, text fig. 116A–C, Pl. XIX figs. 13a, b, 14, 15.

Sepia kubiensis kubiensis Hoyle *sensu* Sasaki, 1929 (as *Sepia kubiensis typicus* Sasaki).

Reg. No.	Specimen(s)	Collection data	Comments
996.6.137 [196]	15 specs. (44–64).	Loc. Tokyo market.	Slimmer than specimens of <i>S. k. andreanoides</i> and rostrum is more acutely pointed.

Ref. Sasaki, 1929: 204, text fig. 111, Pl. XIX figs. 1, 2, 3a–c, 4.

Sepia longipes Sasaki, 1913.

Reg. No.	Specimen(s)	Collection data	Comments
000.4.28.2 [246]	1 male (227).	Loc. [Chiba Pref. (Kazusa Prov.)], Chôshi. Coll. April, 1906 (M 39), Shimizu.	? Syntype. Accompanied by a small diagram. (<i>cf.</i> published date of six syntypes: 18.viii.1906; see text).
996.5.133 [207]	1 female (136).	Loc. Mikawa [Aichi Pref.], Mitani. Coll. 25.i.1968? (1910?)	'43.1.25' (S 43 or M 43?). With two <i>S. tenuipes</i> .

Ref. Sasaki, 1913a: 78, Pl. 3, figs. 4, 5; 1914a: 619, Pl. XII figs. 4, 5; 1929: 188, text fig. 107, Pl. XVII fig. 13a, b.

Sepia lorigera Wülker, 1910.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.158.1 [104]	1 male (204).	Loc. 'Boshui' [Chiba Pref.], Fuku-ura. Coll. 15.x.1883.	Labels '4659' 'near <i>S. andreana</i> ' 'suji-ika.' Specimen is tagged '4659.'
996.6.158.2 [104]	2 males (200, 144), 2 females (129, 73).	Loc. Tokyo market (undated).	Sa 99. <i>cf.</i> lot #1b of Sasaki, 1914a.
996.6.159 [105]	3 males (231, 178, 173).	Loc. Sagami [Kanagawa Pref.], Misaki. Coll. 7.v.1906 (M 39).	Sa 98.
996.6.160 [211]	1 male (158), 1 female (145).	Loc. Tokyo market (undated).	Sa 99. Includes a note that there are two lots labelled 'No. 99.'

Arms 1 very long and slender in males (>2 times DML), with ends coiled and thickened. *cf.* Sasaki, 1913a: 77, text figs. 7, 8; 1914a: 619, 1929: 189, text fig. 108, Pl. XVII figs. 14a–c.

Sepia cf. lycidas Gray, 1849.

Reg. No.	Specimen(s)	Collection data	Comments
000.4.28.3.2 [223-2]	2 females (both 92).	(no data)	Originally in same lot with two ' <i>O.</i> ' <i>minor</i> , four <i>Loliolus japonicus</i> , three <i>S. aculeata</i> and one <i>Sepiella japonica</i> .

Arms subequal, ALO 4.3.2.1, fairly short, tapering rapidly, 4 sucker rows. Tentacle club with many very small suckers. Typical markings of *S. lycidas* not preserved (*cf. Sepia subaculeata*, below, and *S. formosana*, above).

Sepia madokai Adam, 1939 (nom. nov. for *Sepia robsoni* Sasaki, 1929; not *S. robsoni* Massy, 1927).

Reg. No.	Specimen(s)	Collection data	Comments
996.6.143 [199]	2 males (c. 76, 74), 1 ?male (40), 3 ?females (80, 74, c. 63), 1? (41).	Loc. Tokyo market. Coll. Sept. (?) 1885 (<i>sic</i>).	Syntypes. Sa 93. 'No. 4.' ' <i>Sepia elliptica</i> ,' ' <i>Sepia torosa</i> ?' ' <i>Sepia aculeata</i> ?' and (in Japanese) 'hari-ika.' Sepions removed from all specimens, but only 5 sepions now included.
996.6.140 [212]	2 males (90, 87), 2 females (73, 64).	Loc. [Kyushu], Kagoshima [Bay], Sakurajima, off Kurokamicho. Coll. 1.iv.1896 (M 29), Mitsukuri and Hara	Sa 88. ' <i>Sepia elliptica</i> .' Loc. not listed by Sasaki.
996.6.141 [198]	Sepion only (71).	Tokyo market.	' <i>Sepia elliptica</i> .' (<i>cf.</i> specimens. in 996.6.143).
996.6.142 [213]	1 male (55).	Loc. Sagami [Kanagawa Pref.], Misaki. Coll. 14.ii.1891 (M 24), Fukuji Sakamoto [<i>fide</i> Ikeda].	Sa 97. ' <i>Sepia elliptica</i> .' '14/ II 24.' <i>cf. S. elliptica</i> of Ikeda, 1891 <i>f</i> : 328. Not included by Sasaki (1929).

Ref. Sasaki, 1929: 179, Pl. XVII figs. 2,3A–C (as *Sepia robsoni*); *cf. Sepia elliptica* Hoyle *sensu* Sasaki, 1914*a*: 612, Pl. XI figs. 11, 12; 1920: 192; not *Sepia elliptica* Hoyle, 1885: 189. See also Sasaki, 1910: 368, Pl. 13 figs. 4–8; Adam, 1939: 77; Khromov *et al.* 1998: 106.

Sepia misakiensis Wülker, 1910.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.145 [178]	1 spec. (66).	Loc. [Kanagawa Pref.], Misaki. Coll. Sasaki (no date given).	Sa 106. <i>cf.</i> 67 mm specimens of Sasaki, 1929: 203; also, compare tentacle club in separate container with Pl. XVIII fig. 15.
996.6.146 [201]	1 spec. (65).	Loc. Misaki. Coll. 5.viii.1902 (M 35), Mitsukuri.	Sa 105. 'Shirasu.' Tentacles and left arm 1 missing.

Both specimens listed by Sasaki, 1913*a*: 77, Pl. II fig. 16; 1914*a*: 617; 1929: 202, Pl. XVIII figs. 14, 15. Arms 1 decidedly longest, but still < ½ DML. Posterior part of fins expanded into an auriculate lobe on each side. Body more slender than *S. tokioensis*. Tentacles very short, thicker than in *S. tokioensis*. Included by Khromov *et al.*, 1998, as a junior synonym of *S. tokioensis* Ortmann, 1888. Identified here as two distinct species (see also Okutani *et al.*, 1987).

Sepia pardex Sasaki, 1913.*

Reg. No.	Specimen(s)	Collection data	Comments
994.CD-02 [242]	1 male (231).	Loc. Boshu [Chiba Pref.], Katsuyama [Kyonan, Awakatsuyama]. Coll. 9.ii.1889.	Holotype by monotypy [Sa] 101. This loc. listed under <i>S. esculenta</i> by Sasaki, 1910: 368.

Ref. Sasaki, 1913*a*: 74, Pl. III figs. 1–3. *Also identified as the junior objective synonym *Sepia pardalis* Sasaki, 1914*a*: 614, Pl. XII figs. 1–3; 1929: 187 (loc. transliterated as 'Kajiyama').

Sepia peterseni Appellöf, 1886.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.154 [098]	14 males (84–104).	Loc. Tokyo market.	Sa 70. <i>cf.</i> Sasaki, 1913 <i>a</i> : 82 'Tokyo fish market.' Lot #3 of Sasaki, 1914 <i>a</i> .
996.6.155 [210]	10 males (79–108).	Loc. Mikawa [Aichi Pref.], Ise Bay. Coll. 23.iv.1906.	Sa 71. Lot #1 of Sasaki, 1914 <i>a</i> .
996.6.156 [204]	1 male (109).	Loc. [Kyushu], Kagoshima market. Coll. 29.iii.1906 (M 39), Mitsukuri and Hara.	Sa 72. Lot #2 of Sasaki, 1914 <i>a</i> .

Ref. Sasaki, 1914*a*: 618; 1929: 195, text fig. 109, Pl. XIII figs. 10, 11, Pl. XIX figs. 27*a*–*c*.

Sepia pharaonis Ehrenberg, 1831.

Reg. No.	Specimen(s)	Collection data	Comments
002.10.25.9 [094]	1 male (183).	Loc. 'Jolo' [Philippines?]. Coll. Jan., 1908 (M 41), Ijima.	<i>cf. S. tigris</i> Sasaki, 1929. ' <i>Sepia torosa</i> Ort.'

Compare Sasaki, 1929: 163, 165, 173. See also Adam and Rees, 1966: 22. (The Philippines specimen of *S. torosa* mentioned by Sasaki, 1929: 164, is in HUFM, catalogue ref. M-1144).

Sepia sasakii Wakiya and Ishikawa, 1921 (*S. andreana* Steenstrup *sensu* Sasaki, 1913, by indication).

Reg. No.	Specimen(s)	Collection data	Comments
996.6.135 [195]	6 males (77–91).	Loc. Boshu [Boso Peninsula, Chiba Pref.]. <i>cf.</i> Loc. 'Awa' [Chiba Pref.]. Coll. 20.iv.1906 (M 39), [Watase].	Syntypes. Sa 89. ' <i>Sepia andreana</i> Stp.' (Collector <i>fide</i> Sasaki, 1913a: 75).

Arms II stout and long. Sasaki (1929) did not mention this species, nor the paper of Wakiya and Ishikawa. Ref. Wakiya and Ishikawa, 1921: 290, Pl. II figs. 11a–c, indicating specimens identified as *Sepia andreana* Steenstrup *sensu* Sasaki, 1913a: 75, Pl. 2 figs 1–7 [figs 1–8?]. See also Sasaki, 1914a: 613.

Sepia subaculeata Sasaki, 1913.

Reg. No.	Specimen(s)	Collection data	Comments
997.3.1 [245]	2 females (215, 205), 2 ?males (102, 93).	Loc. Tokyo market [Nihonbashi fish market]. Coll. Nov., 1882 (M15).	Syntypes. Sa 102. <i>cf.</i> <i>S. lycidas</i> Gray. See also Adam and Rees, 1966: 8, 10.

Ref. Sasaki, 1913a: 73, Pl. 3 figs. 6a, b; 1914a: 609, Pl. XII figs. 6a, b; 1929: 173, text fig. 104A–C, Pl. XVI figs. 13, 14a, b, Pl. XVII fig. 1.

Sepia tenuipes Sasaki, 1929 (*Sepia andreanoides* Hoyle *sensu* Sasaki, 1914).

Reg. No.	Specimen(s)	Collection data	Comments
996.6.136 [181]	2 males (65, 65).	Loc. Tokyo market. Coll. 'Sept., 1885.'	?Syntypes.* Sa 92. Fair condition—mutilated. ' <i>Sepia appelloffi</i> .' (' <i>Sepia longipes</i> '). Sepions 83, 80 mm long.
996.5.133 [207]	1 female (74), 1 ?male (87).	Loc. Mikawa [Aichi Pref.], Mitani. Coll. 25.i.1910?	'43.1.25.' With a specimen of <i>S. longipes</i> .

**cf.* lot #1 of *Sepia andreanoides* Hoyle *sensu* Sasaki, 1914a: 614. Ref. Sasaki, 1929: 193, Pl. XVIII figs. 1a, b, 2–8, 9a, b.

Sepia tokioensis Ortmann, 1888.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.138 [197]	2 males (69, 67), 1 female (72), 3 juv. (45, 41, 32).	Loc. Tokyo market.	Sa 86. 'No. 7'. Incl. one dissected male. ' <i>Sepia misakiensis</i> figured by Sasaki, 1929' [comment could not be verified].
996.6.144 [200]	9 specs. (65–86).	[Tokyo Bay, Tokyo City] Gyotoku. Coll. 20.iv.1906.	Sa 87. Year <i>fide</i> Sasaki: Meiji 39 (first digit missing on label with specimen).

Similar to *S. misakiensis* but body broader; tentacles longer and slimmer. Both lots listed by Sasaki, 1913a: 77; 1914a: 616. Ref. Sasaki, 1913a: 76, Pl. II figs. 9–15; 1929: 200, text fig. 110.

Sepia sp.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.132 [193]	1 spec. (36).	Loc. [Japan Sea, Toyama Bay, Toyama Pref.], Namerikawa. Coll. 10.v.1905 (M 38).	<i>cf.</i> <i>Sepia kobeensis toyamensis</i> (too small to be a syntype).
000.3.31.3 [221-2]	1 set of beaks.	(no data)	' <i>S. acueata</i> ' (<i>sic</i>). With beaks of an ' <i>Abraliopsis</i> .'
000.4.28.4 [224]	6 specs. (55, 41, 35, 33, ?, ?).	Loc. Tokyo market. Coll. Nov., 1885 (M 18).	'akahari ika.' Very poor condition. Two specimens stuck together (not measured). ' <i>Sepia sulcata</i> Hoyle' ' <i>S. appelloffi</i> .' <i>cf.</i> <i>S. appelloffi</i> lot #2 of Sasaki, 1914a: 618.
002.10.24.5 [257]	1 ?female (45), 2? (46, 42).	Loc. Tokyo market. Coll. Sept., 1885? (year '18').	' <i>S. sulcata</i> ' ' <i>S. kiensis</i> ' ' <i>Sepia (Doratosiepien) kobeensis</i> .' <i>cf.</i> <i>S. sulcata</i> lot #1 of Ikeda, 1891f: 328.
002.10.24.6 [261]	2 males (59, 49).	Loc. [Chiba Pref.], Tateyama. Coll. 28.v.1908 (M 41).	' <i>S. kiensis</i> and <i>S. kobeensis</i> .' '41/5/28.'

Sepiella japonica Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.161 [184]	1 male (142), 1 female (133).	Loc. [Tokyo Bay, Kanagawa Pref.] Natagiri [Yokosuka City, Natsujima-cho]. Coll. 8.ii.1891 (M 24).	Syntypes. Sa 95 '8/II 24' ' <i>Sepiella maindroni</i> .' <i>cf.</i> lot #1 of Ikeda, 1891f: 330.
996.6.162 [185]	2 males (73, 58), 3 females (69, 62, 47).	Loc. Tokyo market. Coll. 1.x.1885.	Sa 96. ' <i>Sepia inermis</i> .' ' <i>Sepiella maindroni</i> .' <i>cf.</i> Ikeda lot #2. These specimens not mentioned or indicated by Sasaki.
000.4.28.3.5 [223-5]	1 female (85).	(no data)	From a mixed lot with ' <i>Octopus</i> ' <i>minor</i> , three <i>Sepia andreana</i> , two <i>Sepia cf. lycidas</i> and four <i>Loliolus japonicus</i> .

Ref. Sasaki 1929: 219, text fig. 170, Pl. XVIII figs. 20–22, 23a, b, Pl. XIX fig. 28. See also 1913a: 85; 1914a: 621, text fig. 1 (as *S. maindroni sensu* Hoyle); Adam and Rees, 1966: 128, Pl. 39 figs. 228–231; *cf.* *Sepia sinensis* d'Orbigny, 1848: 289, and *Sepiella maindroni sensu* Hoyle, 1886: 149 (not *Sepiella maindroni* Rochebrune, 1884a: 89).

Decabrachia: Teuthida: Loliginidae

(Genus group names follow Anderson, 2000).

Doryteuthis (Amerigo) pealei (Lesueur, 1821).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.107 [129]	1 female (165).	Loc. [Western North Atlantic, U.S.A.], Mass [achusetts] Bay (undated).	Sa 73. ' <i>Loligo pealii</i> .'
996.5.108 [130]	1 female (186).	Loc. [U.S.A., Massachusetts], Wood Hall [Woods Hole] (undated).	'No. 38.' Sa 74.

Heterololigo bleekeri (Keferstein, 1866).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.120 [131]	3 females (181, 165, 146).	(no data)	Dissected, with stained viscera. Tentacles very short.
996.5.123 [186]	1 female (193, immature)	Loc. [Kanagawa Pref.], Misaki.	Sa 65. Loc. listed by Sasaki, 1929: 127.
996.5.124 [187]	1 male (155).	Loc. Tokyo market.	Sa 64. Loc. listed by Sasaki, 1929: 127.
002.10.25.8 [265]	1 male (340), 3 females (192, 184, 168).	Loc. [Kyushu], Satsuma, Kagoshima. Coll. 30.iv.1906, Mitsukuri and Hara.	Sa 62. Loc. #2 of Sasaki, 1914a: 605. Includes a label 'Type specimen'(?)*

Ref. Sasaki, 1914a: 604; 1929: 125, text fig. 73, Pl. XIII figs. 6–8, 9a, b, 10 (as *Loligo bleekeri*). * These specimens have not been identified with any species other than *H. bleekeri*.

Loliolus (Nipponololigo) beka (Sasaki, 1929).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.105 [128]	16 specs. (22–33, juv.).	Loc. [Kyushu, Miyazaki Pref.], Ariake Sea. Coll. Oct., 1911 (M 44), Tago.	Syntypes. Sa 75; ' <i>Loligo sumatrensis</i> .' Two of these specimens illustrated in Sasaki 1929, Pl. XIII figs. 5a, b. cf. text p.122 (coll. 'Prof. Kishinoue').
996.5.106 [125]	5 females. (c.63, 63, 62, 61, 52).	Loc. Okayama market. Coll. 25.iv.1901.	Syntypes. Sa 71; ' <i>Loligo sumatrensis</i> ,' 'beka.' Listed by Sasaki, 1914a: 603, and 1929: 122 (1 male is now missing).
996.5.111 [119]	1 female (73).	Loc. [Kyushu, Nagasaki Pref.], Omura Bay. Coll. Dec., 1898 (M 31).	Syntype. Sa 70.
996.5.112 [236]	2 females (65, 51).	Loc. [Seto Sea, Okayama Pref.], Kojima Bay. Coll. October, 1903 (M 36).	Syntypes. ' <i>Loligo ? japonica</i> .'

Ref. Sasaki, 1929: 121, text figs. 70A–C, 71, 72; Pl. XIII fig. 5a, b (as *Loligo beka*). Previously described as *Loligo sumatrensis* d'Orbigny sensu Sasaki, 1914a: 603–604 (cf. legends to text figs. 70–72 of Sasaki, 1929). See also Sasaki, 1910: 363, Pl. XII figs. 1–3.

Loliolus (Nipponololigo) japonicus (Hoyle, 1885).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.109 [134]	7 specs. (34–46).	Loc. Tokyo market. Coll. 1.x.1885.	Sa 67. Sasaki, 1914a, lot #1. ' <i>Loligo japonica</i> Stp.' ' <i>Loligo sumatrensis</i> .' cf. Ikeda, 1891a: 28.
996.5.110 [136]	3 females (79, 72, 70).	Loc. [Kanagawa Pref.], Sagami Bay. Coll. 16.ii.1891.	Sa 68. Sasaki, 1914a, lot #2. 'jindo ika 6' '8'
996.5.113 [132]	5 specs. (23, 22, 20, 18.5, 18).	Loc. [Japan Sea], Tango Kuni [Kyoto Pref.], Miyazu. Coll. 8.vii.1873 (M 6), Iizuka.	Sa 122. Loc. not listed by Sasaki.
996.5.126.2 [189-2]	2 males (91, 83).	(no data)	'S1–S2 天 9-3 入港' Originally with two <i>Uroteuthis edulis</i> and one unidentified loliginid.
000.3.31.4.2 [222-2]	1 female (68).	Loc. [Ishikawa Pref.], Togi. Coll. 24.ix.1927, Uchida.	Specimen not seen by Sasaki. ('jindo ika') Originally in lot with one <i>A. fangsiao</i> .
000.4.28.3.4 [223-4]	1 male (59), 3 females (65, 53, 51).	(no data)	From a mixed lot with ' <i>Octopus minor</i> , <i>Sepiella japonica</i> , three <i>Sepia andreana</i> and two <i>Sepia</i> cf. <i>lycidas</i> .
000.4.28.5 [216]	10 specs. (31–51).	Coll. May, 1902 (M 35), Kuma.	—
002.12.4.3 [259]	1 female (62).	Loc. Shimane Pref. Coll. 10.xi.1906 (M 39).	Sa 69. ' <i>Loligo japonica</i> '. Sasaki, 1914a, lot #3.

Ref. Sasaki, 1914a: 602; 1929: 112, text figs. 60A, B, 61A–C, 62, Pl. XIV figs. 1–6 (as *Loligo japonica*). See also Sasaki, 1909: 485.

Lololus (Nipponololigo) uyii (Wakiya and Ishikawa, 1921).

Reg. No.	Specimen(s)	Collection data	Comments
997.7.2 [177]	1 ?female (50).	(no data)	With one large nudibranch gastropod. '25'

cf. Wakiya and Ishikawa, 1921: 286, Pl. II figs. 12a–h (as *Loligo uyii*).

Uroteuthis edulis edulis (Hoyle, 1885) (originally as *Loligo edulis communis* Sasaki, 1929).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.115 [121]	11 males (62–92), 7 females (55–89).	(no data)	' <i>Loligo edulis</i> .'
996.5.122 [097]	3 males (254, 218, 188), 5 females (111–173).	(no data)	cf. Sasaki, 1914a, lot #4 (<i>L. kensaki</i> ?). Two notes about catching squid, Mr. Kuma, and vernacular name 'mehikari' (cf. <i>Loligo edulis</i> : Okutani <i>et al.</i> , 1987: 99).
996.5.125 [188]	1 female (320).	(no data)	(' <i>Loligo edulis</i> , kensaki ika').
996.5.126.1 [189-1]	1 male (151), 1 female (149).	(no data)	'S1–S2 天 9-3 入港'

Ref. Sasaki, 1914a: 601–602 (incl. syntypes of *Uroteuthis kensaki*; see below); 1929: 107, text figs. 57, 58, Pl. XIII figs. 1, 2, 3a, b.

Uroteuthis kensaki (Wakiya and Ishikawa, 1921) (*Loligo edulis* Hoyle *sensu* Sasaki, 1914).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.114 [120]	22 males (61–98), 9 females (68–94).	Loc. [Kanagawa Pref.], Misaki. Coll. 24.v.1906 (M 39).	Syntypes. cf. <i>Loligo edulis</i> lot #3 of Sasaki, 1914a (25 males, 10 females; '1896' in error?). 'gumi ika.' Sa 58.
996.5.116 [122]	1 female (215).	Loc. [Kyushu], Satsuma [Kagoshima Pref.], Akune. Coll. 20.iv.1896 (M 29), Mitsukuri.	Syntype. Lot #1 of Sasaki, 1914a. Sa 59.
996.5.117 [124]	1 female (176).	Loc. Idzu [Shizuoka Pref., Izu Peninsula], Oshima.	Syntype. Lot #2 of Sasaki, 1914a. cf. <i>L. edulis</i> lot #1 of Ikeda, 1891a: 29. Sa 61.
996.5.118 [126]	1 female (152).	Loc. Miura Peninsula, off Misaki. Coll. mid-Dec., 1908 (M 41), Sasaki. [this date on two labels].	Syntype. cf. lot #6 of Sasaki, 1914a (but states Nov., not Dec.). Sa 50.
996.5.119 [127]	3 juv. (76, 60, 53).	Loc. [Kanagawa Pref.], Odawara, Hayakawa. Coll. 22.xi.1908, Oshima.	Syntypes. cf. lot #5 of Sasaki, 1914a (but states coll. date Dec., not Nov.: cf. 996.5.118). Sa 60. cf. Sasaki, 1929, Pl. XIII fig. 2.

Ref. Wakiya and Ishikawa, 1921: 283, text fig. 4, Pl. I fig. 9; Sasaki, 1914a: 601; cf. *Uroteuthis edulis* (Hoyle, 1885: 186). See also Sasaki, 1909: 483; Okutani *et al.*, 1987: 99. Sasaki (1929) did not mention this species, nor the paper of Wakiya and Ishikawa.

Sepioteuthis lessoniana Lesson, 1830.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.63.1 [107-1]	3 females (172–200).	Loc. [Kyushu], Kagoshima. Coll. Aug., 1903.	Originally with a female <i>Sepia esculenta</i> , lot 996.5.63.2.
996.5.64 [108]	1 male (270), 1 juv. (98).	Loc. Tokyo market.	Sa 83.
996.5.65 [171]	1 female (203).	Loc. [Japan Sea], Tango Kuni [Kyoto Pref.], Miyazu. Coll. 11.vii.1903 (M 36), Iizuka.	Sa 80. Original label states '45' (Ikeda's no.?). Sasaki, 1914a, lot #5.
996.5.66 [172]	2 males (123, 113), 6 females (102–118).	Loc. Kagoshima market. Coll. 17.iv.1896, Mitsukuri and Hara.	Sa 78. Sasaki, 1914a, lot #4 (as 5 males, 3 females).
996.5.67 [173]	5 females (100–125).	Loc. Tokyo market. Coll. Sept., 1885.	Sa 79. cf. lot #4 of Ikeda, 1891b: 61.
996.5.68 [174]	1 male (197), 1 female (217)	Loc. Suruga [Shizuoka Pref., Numazu City], Enoura (undated).	Sa 81. cf. Sasaki, 1914a, lot #10.
996.5.69 [159]	2 females (53, 52).	Loc. Sagami Bay. Coll. Aug., 1906.	Original label now missing.
996.5.70 [160]	1 female (160)	(loc. illegible).	Sa 82.

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Sepioteuthis lessoniana, continued

Reg. No.	Specimen(s)	Collection data	Comments
996.5.71 [161]	1 spec. (77).	Loc. Tokyo market (undated).	Sa 100. 'aori ika 2.'
996.5.72 [162]	1 male (107).	Loc. Idzu [Izu, Shoto Islands], Oshima. Coll. April, 1887 (M 20).	Sa 90. cf. lot #6 of Ikeda, 1891b: 62 (TL 230). Sasaki, 1914a, lot #2.
996.5.74 [164]	1 juv. (48).	Coll. 1960?	"'60-1063"
996.5.75 [165]	4 juv. (42, 34, 33, 26)	(no data)	—
996.5.128 [190]	1 female (215)	(no data)	—
996.5.129 [191]	1 female (105).	(no data)	'S1-S2 天 9-13 入港'
996.6.163 [112]	1 male (250), 2 females (214, 185), all mature.	Loc. [Kanagawa], Misaki. Coll. Aug., 1906 (M 39).	Sa 76. Sasaki, 1914a, lot #6.
000.3.31.2 [220]	Beaks only.	(no data)	Two sets of beaks ' <i>Sepioteuthis</i> -large' and ' <i>E. morsei</i> -small'.
000.4.28.1 [113]	1 male (350).	Loc. [Japan Sea, Toyama Pref.], Namerikawa.	Sasaki, 1914a, lot #3. Sa 77. cf. lot #1 of Ikeda, 1891b: 61.

Ref. Sasaki, 1910: 365; 1914a: 606-607; 1929: 127, text figs. 74-76A, B, 77, Pl. XIV figs. 15-17, Pl. XXIX figs. 8, 9.

Unidentified loliginids.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.121 [135]	2 females (97, 89).	Loc. Taiwan, Kiirun [Chi-lung].	'27.' (wooden tag.). (' <i>Loligo sibogae</i> Adam, 1954').
996.5.126.3 [189-3]	1 male (70).	(no data)	'S1-S2 天 9-3 入港' Originally with one <i>U. edulis</i> and two <i>L. japonicus</i> .
996.5.127 [180]	1 spec. (41).	(no data)	(' <i>Loligo (Photololigo) edulis</i> ').
001.10.2.5 [137]	1 male (85)	(no data)	Coll. 1960? (' <i>Loligo edulis</i> '). Originally with an <i>Amphioctopus</i> cf. <i>kagoshimensis</i> , one <i>M. loennbergii</i> and two chiroteuthids.
001.10.3 [133]	1 female (101).	(no data)	cf. <i>Uroteuthis edulis</i> . (' <i>Loligo</i> sp.' [foreign origin]).
002.12.4.2 [262]	2 specs. (25, 23)	Loc. [Kanagawa Pref.], Odawara. Coll. 4.vi.1891 (M 24), Ishida.	—

Enoploteuthidae

Watasenia scintillans (Berry, 1911).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.85 [152]	30 females (48-61, mature with eggs).	Loc. [Japan Sea] Etchu [Toyama Pref.], Namerikawa. Coll. May, 1905 (M 38).	—
996.5.86 [153]	106 specimens (36-45).	Loc. [Kanagawa Pref.], Odawara. Coll. early March, 1907 (M 40).	Sa 31. 'beni ika'* [red squid]. '87 females'; '17 [19] females' separate within a large glass vial. Lot #4 of Sasaki, 1914b: 88-89; lot #4, 1916: 95.
996.5.87 [154]	14 females (54-61, mature with eggs).	Loc. Namerikawa. Coll. May, 1905.	Arm-tip photophores removed from 4 specimens.
996.5.88 [155]	78 specs. (36-42).	Loc. Boshu, Awa [Chiba Pref.], Shirahama, Banda. Coll. 9.ii.1908 (M 41).	Sa 33. A label by Sasaki notes that he sent three specimens to a Dr. Mortensen, 15 July, 1914. Lot #1, 1914b; lot #5, 1916.
996.5.89 [138]	1 ? female (60).	(no data)	Arm-tip photophores removed. Very poor condition.
996.5.90 [139]	27 females (52-61, mature with eggs).	Loc. Etchu, Namerikawa. Coll. 22.v.1905 (M 38), Watase.	—

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Watasenia scintillans, continued

Reg. No.	Specimen(s)	Collection data	Comments
996.5.91 [140]	28 females (49–63, mature with eggs)	Loc. Namerikawa. Coll. 22.v.1905, Watase.	—
996.5.92 [148]	19 females (50–61, mature with eggs).	(no data)	'pereni' (in katakana script).
996.5.93 [149]	24 females (50–62, mature with eggs).	Loc. Namerikawa. Coll. 25.v.1905, Watase.	Arm-tip photophores removed from 4 specimens.
996.5.94 [150]	22 females (40–45, mated, with maturing eggs).	Loc. [Kanagawa Pref.], Odawara. Coll. mid-March (no year given).	Sa 35. 'married female 22' [<i>sic</i>]. Arm-tip photophores removed from 1 specimen. Lot #5b, 1914b; lot #6, 1916.
996.5.95 [151]	16 specs. (35–44, immature).	Loc. Boshu [Chiba Pref.], NishiMisaki. Coll. 16.ii.1891 (M 24).	Sa 32. <i>cf.</i> <i>Onychoteuthis</i> sp. of Ikeda, 1891d: 241. Sasaki <i>W. scintillans</i> lot #3, 1914b; lot #1, 1916.
996.5.96 [156]	7 females (49–57, mature with eggs).	Loc. Taiwan, Chi-lung.	Arm-tip photophores removed from 6 specimens.
996.5.97 [157]	17 females (52–60, mature with eggs).	Loc. Namerikawa. Coll. May, 1905.	All but one have had most or all arm-tip photophores removed (cut). The eyes of 6 specimens have been dissected or removed.
996.5.98 [158]	20 females (53–61, mature with eggs).	(no data)	9 specimens have had one or more arm-tip photophores removed.
996.5.99 [114]	8 females (53–60, mature with eggs).	(no data)	' <i>Abraliopsis</i> sp.' Arm-tip photophores removed (cut) from one specimen.
996.5.100 [115]	2 females (59, 58, mature with eggs).	(no data)	—
996.5.101 [116]	10 males (35–40), 1 female (44).	Loc. Odawara.	Sa 35. 'Lot 3.' Lot #5a, 1914b; lot #6, 1916.
996.5.102 [117]	5 specs. (41, 39, 37, 36, 35, immature).	Loc. Boshu, Awa [Tochigi Pref.], Tateyama Bay, Hazama Village. Coll. mid-Feb., 1907, Oka.	Sa 36. Lot #2, 1914b; lot #3, 1916.
996.5.103 [118]	1 female (61, mature with eggs).	(no data)	—
996.5.104 [123]	3 females (62, 60, 58, mature with eggs)	(no data)	Arm-tip photophores removed from one specimen.
002.12.5.1 [256]	1 female (51, mature with eggs).	Loc. Etchu [Toyama Pref.], Uozu. Coll. 24.v.1905, Watase.	Sa 34.

Ref. Sasaki, 1914b: 75, text fig. 2, Pl. I figs. 1–5, Pl. II figs. 1–12, Pl. III figs. 1–6; 1916: 94; 1929: 249, text fig. 124, Pl. XXI figs. 9, 10.
 *Vernacular name most commonly 'hotaru ika' [firefly squid]: 'beni ika' or 'aka ika' [red squid] refers to redness of digestive gland showing through transparent mantle of fresh specimens (Sasaki, 1914b: 81). Photophore removals and eye dissections attributable to research by Watase.

?*Abraliopsis* sp.

Reg. No.	Specimen(s)	Collection data	Comments
000.3.31.3 [221-1]	1 set of beaks	(no data)	Beaks only. ' <i>Abraliopsis</i> ' ' <i>S. acueata</i> ' (<i>sic</i>). With beaks of <i>Sepia</i> sp.

Octopoteuthidae

Octopoteuthis sicula Rüppell, 1844.

Reg. No.	Specimen(s)	Collection data	Comments
996.6.165 [179]	1 female (22).	Loc. [?Chiba Pref.], Tateyama. [Coll. April, 1896; Prof. Oka].	'85' The single specimen mentioned by Sasaki.

Ref. Sasaki, 1916: 96; 1929: 256, text fig. 125A, B, Pl. XXI figs. 17–19.

Onychoteuthidae

Moroteuthis loennbergii Ishikawa and Wakiya, 1914.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.61 [169]	1 spec. (180).	Loc. Sagami Bay, Misaki.* Coll. June, 1895.	Sa 29.
996.5.61A [170]	1 spec. (c. 200).	Loc. Sagami Bay, Misaki.* Coll. 11.viii.1896.	Sa 30.
001.10.2.1 [063]	1 spec. (166).	Coll. 1960?	'60-355' (= Lot #355, coll. 1960?). Originally with one <i>A. cf. kagoshimensis</i> .

Ref. Ishikawa and Wakiya, 1914a: 445, Pl. XLV fig. 1, Pl. XLVI figs. 2a, b, 3–8; See also Sasaki, 1916: 91; Sasaki, 1929: 235, text fig. 119, Pl. XX figs. 13a, b; Kubodera *et al.* 1998: 283. *See Introduction.

Histioteuthidae

Histioteuthis hoylei (Goodrich, 1896).

Reg. No.	Specimen(s)*	Collection data	Comments
996.5.54 [095]	1 male (172).	(no data)	<i>cf. Histioteuthis</i> sp. of Ikeda, 1891d: 240. <i>cf.</i> lot #2 of Sasaki, 1916.
996.5.55 [064]	1 female (68).	Loc. Sagami Bay.	Sa 26. ' <i>Histioteuthis dofleini</i> Pfeffer.' ' <i>Calliteuthis reversa</i> ' ' <i>Histioteuthis reversa</i> ' ' <i>Stigmatoteuthis dofleini</i> Pfeffer.' Lot #3 of Sasaki, 1916.
996.5.56 [067]	1 male (140).	Loc. 36° 14'N., 142° 18'E., off Ibaraki [Pref.]. Coll. 15.vi.1904, S. Takahashi.	' <i>Stigmatoteuthis dofleini</i> Pfeffer.' Sa 24. In stomach contents of a sperm whale. Lot #1 of Sasaki, 1916.

Ref. Sasaki, 1916: 98; 1929: 258, text figs. 126A–F, 127, Pl. XXII figs. 1–3 (as *Stigmatoteuthis dofleini*); Voss *et al.*, 1998: 315. * Sexes *vide* Sasaki, 1916.

Histioteuthis meleagroteuthis (Chun, 1910).

Reg. No.	Specimen(s)	Collection data	Comments
994.CD-01 [248]	1 spec. (31).	Loc. Sagami Bay, Miura, Misaki, Uchibata, c. 400 fm. [731.5 m]. Coll. 4.iii.1898, (M 31) Kuma.	Holotype by monotypy of <i>Meleagroteuthis separata</i> Sasaki, 1915. Sa 27.

Ref. Sasaki, 1915: 131, text figs. 1, 2; 1916: 103; 1929: 262, Pl. XXII figs. 4, 5, 6a, b. Identified as an aberrant *Histioteuthis meleagroteuthis* by Voss *et al.*, 1998: 353 (*cf.* Voss, 1969: 804, 809).

Ommastrephidae

Eucleoteuthis luminosa (Sasaki, 1915).

Reg. No.	Specimen(s)	Collection data	Comments
997.3.2 [240]	1 male (139), 1 ?female (130), 7 females (151, 151, 150, 149, 137, 119, 117).	Loc. Sagami Bay, 6 miles [11.1 km] off Misaki, 700 fm [1280 m]. Coll. 5.viii.1906, Watase.	Syntypes. Sa 12. ' <i>Symplectoteuthis luminosa</i> ' ' <i>suji-ika</i> .' Originally with a specimen of <i>E. berryi</i> ; see 997.3.3. <i>cf.</i> Sasaki's '10' syntypes.
996.5.16 [086]	1 male (148), 1 juv. (117), 4 dissected: 121 (female), 135, 132, 123.	Loc. [Kanagawa Pref.], Odawara. Coll. Sept.	No original label found. 4 specimens dissected extensively.
996.5.17 [087]	1 male (166).	Loc. Tokyo market (undated).	Sa 13.
996.5.18 [088]	3 females (165, 158, 156).	Coll. 1906 (M 39). No other data.	One specimen dissected; its abdominal contents missing.
996.5.19 [089]	3 females (168, 152, 147).	Loc. Misaki. Coll. Aug., 1906.	—
996.5.20 [079]	3 males (161, 138, 129), 1 female (152)	Loc. Misaki. Coll. Aug., 1906.	—
996.5.22 [081]	1 male (126), 1 female (128).	Loc. [Kanagawa Pref.], off Odawara. Coll. 17.ix.1917.	' <i>suji ika</i> .'
996.5.23 [068]	1 ?male (135).	(no data)	Partially dissected abdomen and arms.
996.5.24 [069]	1 ?female (120, immature).	Loc. [Kanagawa Pref.], Misaki. Coll. Aug., 1906 (M 39).	—

continued on next page

Eucleoteuthis luminosa, continued

Reg. No.	Specimen(s)	Collection data	Comments
996.5.25 [106]	8 specs. (118–168)	Loc. Misaki Coll. Aug., 1906.	(includes 1 specimen of <i>L. japonicus</i> , DML 78 mm).
996.5.26 [070]	3 males (149, 133, 128).	Loc. [Sagami Bay, Shizuoka Pref.], off Atami. Coll. 23.vi.1905, Mr. Din [Dean].	All partially dissected with one or more ventral arms removed.
996.5.27 [071]	2 males (140, ?), 2 females (145, 116)	Coll. 5.viii.1906 (Loc. not given).	'Towers friend' 'suji ika'. Cut into head, body and tail pieces. Body of one male missing.
996.5.28 [072]	1 male (head width 28).	(no data)	Head with arms and tail (with fin) only. The eye membranes have been dissected.
996.5.60 [093]	3 males (170, 147, 131), 6 females (128–148).	Loc. Sagami Bay, Misaki. Coll. Aug., 1906.	—

Ref. Sasaki, 1915: 144, text fig. 4, Pl. IV figs. 7–13; 1916: 106; 1929: 293, text fig. 140a–d, Pl. XXIV figs. 4a, b, 5 (as *Symplectoteuthis luminosa*). Type species of *Eucleoteuthis* Berry, 1916 (*cf.* Wormuth, 1998: 379).

Illex illecebrosus (Lesueur, 1821).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.29 [073]	2 specs. (173, 160).	Loc. U.S.A., Massachusetts.	Sa 3.
996.5.30 [074]	3 specs. (207, 205, 203).	Loc. [U.S.A.], Massachusetts, Cape Cod. Coll. B.H. van Vleet.	Sa 2.
996.5.62 [111]	6 specs. (214–220).	(no data)	Sa 1.

Ommastrephes bartramii (Lesueur, 1821).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.53 [110]	2 specs. (245, 240, immature).	Loc. Sagami [Kanagawa Pref.], Odawara. Coll. Nov., 1885.	Sa 11. ' <i>Sthenoteuthis bartramii</i> ' 'baka ika' 'medama aka ika' [red-eyed squid].

Ref. Sasaki, 1916: 105; 1929: 289, text figs. 139a–h, Pl. I fig. 8, Pl. XXIV figs. 1–3, as *Stenoteuthis bartramii* (*sic*). *cf.* *O. inisignis* of Ikeda, 1891c: 146, and the lot examined by Sasaki, 1916: 106.

Ornithoteuthis volatilis (Sasaki, 1915).

Reg. No.	Specimen(s)	Collection data	Comments
994.CD-04 [239]	1 male (204), 1 female (200).	Loc. Sagami Bay, [Shizuoka Pref.], Off Atami. Coll. 24.vi.1906 (M 39), Aoki.	Syntypes. Sa 9. Lot #1 of Sasaki, 1915.
996.5.32 [061]	1 spec. (143).	(Loc. not stated). Coll. 29.ix.1905, Mr. Dean.	Syntype. <i>cf.</i> the male in Sasaki's lot #2.
996.5.33 [065]	2 females (both 137, with eggs).	Loc. off Atami. Coll. 23.ix.1905, Mr. Dean.	Syntypes. The females of Sasaki lot #2. Label signed 'Kumakichi'. Observed 'flying' at the surface.

Ref. Sasaki, 1915: 138, text fig. 3, Pl. IV figs. 1, 2, 3a–c, 4a, b, 5, 6. See also 1916: 105; 1929: 281, text figs. 135a–e, 136a–f, Pl. XXIII figs. 7–10, 11a, b, (as *Ommastrephes volatilis*). Type species of *Ornithoteuthis* Okada, 1927a (*cf.* Adam, 1957; Dunning, 1998). These are the original five 'type' specimens listed by Sasaki, 1915. (No holotype was designated, despite the assertions of Dunning, 1998: 429).

Sthenoteuthis oualaniensis (Lesson, 1830).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.31 [062]	5 females (149, 145, 140, 140, 135)	Loc. Tokyo market (undated).	' <i>Ommastrephes oualaniensis</i> ' All specimens immature. <i>cf.</i> <i>Ommastrephes</i> sp. lot #2 of Ikeda, 1891c: 147.
996.5.58 [059]	1 juv. (50).	(no data)	—

cf. Sasaki, 1929: 296, text figs. 176–177, 178a–h, Pl. XXX fig. 8, based on specimens from Okinawa and Formosa [Taiwan]. See also Dunning, 1998: 425.

Todarodes pacificus pacificus (Steenstrup, 1880).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.21 [080]	3 specs. (172, 135, ?).	(no data)	One specimen head and arms only. (' <i>Eucleoteuthis luminosa</i> ').
996.5.34 [066]	3 females (196, 190, 178).	(no data)	Sa 6. ' <i>Ommastrephes sloanei pacificus</i> .' Contorted and tied together with string.
996.5.35 [090]	2 females (180, 172).	Loc. Tokyo market. Coll. Nov. '85 [1885].	Sa 5.
996.5.36 [091]	1 female (195).	Loc. [Shikoku], Tosa [Kochi Pref.]. Coll. 1905 (M 38), Tago.	Sa 7. 'surume ika' 'female.'
996.5.37 [082]	1 female (188).	Loc. Misaki. Coll. 9.viii.1897, 130 fa. [238 m], Aoki. [Sasaki's label, in English].	Sa 8. Another label, in Japanese, states: Loc. Okayama market, Coll. 9.viii.1905 (M 38), Kuma.
996.5.38 [083]	3 specs., in pieces.	Loc. Tokyo market. Coll. Nov., 1882.	Sa 4. Heads, arms and viscera missing.
996.5.39 [084]	1 female, head only	(no data)	—
996.5.40 [085]	1 female (250).	Loc. Miura, Mitani [Misaki?]. Coll. 25.i.1910 (M 43).	—
996.5.41 [092]	1 male (169), 1 female (178).	Loc. Misaki Mar. Exptl. Stn. Coll. 28.xii.1904, Iizuka and Tsuchida.	Another label, in Japanese, states: Tokyo market, Coll. 27.iv.1904. (M 37).

All the locs. mentioned here were listed by Sasaki. Ref. Sasaki, 1929: 277, text figs. 133a–h, 134A, B, Pl. XIII figs. 1, 2a, b, 3a, b, 4, 5a, b, 6 (as *Ommastrephes sloani pacificus*). See also the anatomical and fisheries papers on this species by Sasaki, 1921, 1925, 1929a.

Thysanoteuthidae*Thysanoteuthis rhombus* Troschel, 1857.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.52 [075]	1 spec. (170).	Loc. Sagami [Kanagawa Pref.], off Atami. Coll. 23.ix.1905.	Sa 14. Lot #1 of Sasaki, 1916.

Ref. Sasaki, 1916: 107; 1929: 301, text fig. 141, Pl. XXIV figs. 6–8.

Chiroteuthidae*Chiroteuthis (Chirothauma) imperator* (Chun, 1908).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.76 [166]	1 spec., in pieces.	Loc. Sagami Bay, Yodomi. Coll. 1.v.1899, 350 fa. [640 m], Kuma.	Sa 15. Includes intact tentacle club. Lot #4 of Sasaki, 1916.
996.5.77 [167]	1 female (190).	Loc. [Kanagawa Pref.], Misaki. Coll. 24.ix.1908.	Sa 16. Condition quite good. Includes one tentacle. Sasaki lot #5.
996.5.78 [141]	3 specs. (145, 140, 118).	Loc. Sagami Kuni [Kanagawa Pref.], Odawara. Coll. 1.v.1891 (M 24).	Sa 17. Sasaki lot #2.
996.5.79 [142]	2 specs. (130, 100).	Loc. Miura, Misaki. Coll. Sept., 1887.	Sa 18. Sasaki lot #1. <i>cf.</i> <i>Chiroteuthis veranyi</i> specimens of Ikeda, 1894c: 44.
996.5.80 [143]	2 specs. (150, 110).	Loc. Soshu [Kanagawa Pref.], Misaki. Coll. 27.viii.1891 (M 24).	Sa 19. Sasaki lot #3.
996.5.81 [144]	1 spec. (117)	(no data)	Sa 20.
996.5.82 [145]	1 spec. (76).	(no data)	Sa 21.
996.5.83 [146]	1 spec. (76).	Loc. Suruga Bay [Shizuoka Pref.]. Coll. 28.viii.?	'No. 1' (not Sasaki's: Sa 1 is an <i>Illex illecebrosus</i>).
996.5.84 [147]	1 spec. (146).	Coll. 3.ii.1983 (?).	No original label.

Ref. Sasaki, 1916: 108; 1929: 305, text fig. 142A–D, Pl. XXIV figs. 9, 10M, R.

Chiroteuthis sp.

Reg. No.	Specimen	Collection data	Comments
001.10.2.3 [076]	1 spec. (122).	(no data)	'60-355' [Lot #355, coll. 1960?]. Originally with an <i>A. cf. kagoshimensis</i> , a loliginid and 001.10.2.4.
001.10.2.4 [077]	1 female (117).	(no data)	(ditto, included with 001.10.2.3), 'yūrei ika.'

Mastigoteuthidae*Idioteuthis (Idioteuthis) latipinna* Sasaki, 1916.

Reg. No.	Specimen(s)	Collection data	Comments
994.CD-03 [233]	1 spec. (238).	Outside of Okinose bank [Sagami Bay] from a depth of about 400 fa [732 m]. Coll. 20.iv.1906, K. Aoki.	Holotype by monotypy. Sa 23.

Ref. Sasaki, 1916: 108, Pl. III figs. 1–5; and 1929: 312, text fig. 143A, B (as *Mastigoteuthis latipinna*). Type species of *Idioteuthis* Sasaki, 1916. See also Salcedo-Vargas and Okutani, 1994: 124.

Cranchiidae*Cranchia scabra* Leach, 1817.

Reg. No.	Specimen(s)	Collection data	Comments
994.CD-06 [217]	1 spec. (55).	Loc. [Kyushu, Kagoshima Pref.], Osumi, Kimotsuki-gun, Sata-mura. Coll. Jan., 1910 (M 43), Tago.	<i>cf.</i> Sasaki, 1929: 331, Pl. XXVI fig. 13a, b. ('same-hada hozuki ika').

Ref. Sasaki, 1929: 329, text figs. 151A, B, 152, 153a–c, Pl. XXVI figs. 13a, b, 14, 15.

Leachia pacifica (Issel, 1908).

Reg. No.	Specimen(s)	Collection data	Comments
004.8.2 [254]	1 spec. (46).	Loc. Misaki. (undated)	' <i>Leachia pacifica</i> Issel' (old label, from Meiji period, in ink). ('tougata ika').

Ref. Sasaki, 1929: 338, text figs. 159A, B, Pl. XXVII figs. 7a, b, 8–15, 16a, b, 17 (as *Pyrgopsis pacificus*).

Liocranchia reinhardtii (Steenstrup, 1856).

Reg. No.	Specimen(s)	Collection data	Comments
996.5.57 [060]	2 specs. (23, 13).	Loc. [Kanagawa Pref.] Aburatsubo (surface). Coll. 26.xii.1904 (M 37).	Dated 26.xii.1894 by Sasaki, 1916. ('hōzuki ika').

Ref. Sasaki, 1916: 112. See also Sasaki, 1929: 332, text figs. 154, 155A, B, 156, 157A, B, 158A–C, Pl. XXVI figs. 16a, b, Pl. XXVII figs. 1a, b, 2–4.

Teuthowenia elongata Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.50 [234]	(missing)	Loc. Misaki.	Holotype by monotypy. ' <i>Teuthowenia elongata</i> n.sp.' Empty jar.

Ref. Sasaki, 1929: 327, Pl. XXVI figs. 7–12.

Teuthowenia tagoi Sasaki, 1929.

Reg. No.	Specimen(s)	Collection data	Comments
996.5.51 [235]	1 spec. (18)	Loc. [Suruga Bay], Suruga Prov. [Shizuoka Pref., Numazu City], Enoura. Coll. 3.iii.1902 (M 35), 'shirasu' net, Mr. Nomura.	Holotype by monotypy. Specimen badly convoluted. Collector's name is from old jar label: Sasaki stated that Tago was the collector (hence the species name).

Ref. Sasaki, 1929: 326, text fig. 150A, B, Pl. XXVI figs. 1a, b, 2–5, 6a, b.

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Appendix: Annotated Summary of the Cephalopoda Specimens in the Zoological Institute of Tokyo Imperial University Listed by Ikeda (1890a, b, 1891a–f).

Lot numbers marked with an asterisk (*) have been matched (positively or tentatively) with specimens in the present collection (see above). Occasional spelling errors of taxa in Ikeda's original texts have been ignored, otherwise the identifications are those stated by Ikeda (for updated identifications, refer to main catalogue listed above). The only measurements recorded here are total length and/or mantle length where stated by Ikeda. In several instances Ikeda also includes a number of other measurements (including arm, tentacle, fin lengths and widths). Note that Ikeda stated all measurements in cm (retained here: *cf.* usual convention of using mm). Numbers prefixed 'M' in parentheses are the original Meiji reign years used throughout Ikeda's papers; numbers without a prefix in the 'Specimens' column are mantle lengths in cm. Other abbreviations: ALO, arm length order; ML, mantle length (in cm); Pref., Prefecture; Prov., Province; TL, total length. **Comments** are brief extracts from Ikeda's sometimes extensive notes on each lot.

Family Octopodidae.

1. *Octopus octopodia*, 'madako' [common octopus] [*cf. Octopus vulgaris* Cuvier *sensu* Sasaki, 1929] (Ikeda, 1890a: 481).

lot#	Specimens	Date and Collectors	Locality	Comments
1	1 spec.	Nov., 1882 (M 15).	Tokyo market	TL 40 cm. Large, but hectocotylized arm missing.
2*	1 spec.	Summer, 1882 (M 15), Mitsukuri.	Bingo [Hiroshima Pref.], Tomonotsu.	TL 10 cm. ' <i>Octopus kagoshimensis</i> .'
3*	2 specs.	April, 1884 (M 17), Mitsukuri, Ishikawa and Okada.	[Suruga Bay], Shunshu [Shizuoka Pref.] Enoura [nr. Numazu].	TL 10 cm, 7 cm
4	2 specs.	Dec., 1888 (M 21).	Soushu [Sagami Prov.], [Kanagawa Pref.] Miura, Misaki.	TL 7 cm, 6 cm. Compared with <i>O. globosus</i> Appellöf and <i>O. bermudensis</i> Hoyle.
5	5 specs.	April, 1884 (M 17), Mitsukuri, Ishikawa and Okada.	[Suruga Bay], Shunshu [Shizuoka Pref.], Enoura.	TL 2.5 cm.
6*	1 spec.	July, 1885 (M 18), Okada.	Echizen [Fukui Pref.], Sakai harbour.	TL 12 cm.
7	3 specs.	Sept., 1886 (M 19).	Tokyo market	TL 40 cm.
8*	2 specs.	April, 1885 (M 18), Ishikawa, Okada.	Boshu [Chiba Pref.], Kominato.	TL 8 cm, 2.5 cm.
9	1 spec.	Aug., 1884 (M 17), Imai.	Sagami [Kanagawa Pref.], off Kannon-zaki [Kannon Point].	Specimen with branched arms (total of 78 arm tips).

2. *Octopus megalocyathus* Couthoy in Gould *sensu* Ikeda. 'yanagidako' [willow octopus] (Ikeda 1890a: 482)

[*cf. Octopus conispadiceus* (Sasaki, 1917)].

lot#	Specimens	Date	Locality	Comments
1	1 spec.	8.xii.1882 (M 15).	Sagami [Kanagawa Pref.], Miura, Misaki.	TL 1 m, arms 1 and 2 > 80 cm. ALO 2 = 1.3.4.

3. *Octopus macropus* Risso *sensu* Ikeda. 'shakushidako' [ladle-ligula octopus], 'ashinaga ihidako' [long-armed, boiled-rice octopus] (Ikeda, 1890b: 528–529) [*cf. 'Octopus' minor* (Sasaki, 1920)].

lot#	Specimens	Date and Collectors	Locality	Comments
1*	7 specs.	1.vii.1882 (M 15).	Tokyo Bay, Haneda.	TL 40–60 cm.
2*	3 specs.	7.xii.1882 (M 15).	Tokyo market.	TL 22–55 cm. <i>cf. O. pusillus</i> Gould
3	2 specs.	(no data)	Naguchi (hiragana script).	TL 25 cm. <i>cf. Tryon</i> , 1879: 112, Pl. 31 figs. 32, 33.
4*	1 spec.	April, 1885 (M 18).	Boshu [Chiba Pref.], Kominato.	TL 32 cm. <i>cf. O. januaris</i> Steenstrup in Hoyle.
5*	2 specs.	Summer, 1882 (M 15), Mitsukuri and Kikuchi <i>et al.</i>	Bitchu [Okayama Pref.], Yukashima.	Both TL 22 cm.
6	1 spec.	(no data)	[Kanagawa Pref.], Enoshima.	TL 28 cm. Resembles <i>Octopus pusillus</i> : Tryon or <i>O. globosus</i> : Appellöf.
7	2 specs.	(no data)	(no data)	TL < 6 cm. <i>cf. O. macropus</i> or <i>O. bermudensis</i> Hoyle.

Discussion of this species includes (with text excerpts): *Octopus macropus* Risso, *O. cuvieri* d'Orbigny, *O. januaris* Steenstrup, *O. pusillus* Gould and *O. kagoshimensis* Ortmann. The specimen in lot #4 is the holotype of '*Octopus' pardalis* (Sasaki, 1929).

4. *Octopus ocellatus* Gray, 1849. 'ihidako' ['iidako', boiled-rice octopus] (Ikeda, 1891a: 25) [*Amphioctopus fangsiao* (d'Orbigny, 1841)].

lot#	Specimens	Date and Collector	Locality	Comments
1*	2 males, 2 females.	7.xii.1882 (M 15).	Tokyo market.	TL 18, 15 cm (males), 13.5, 7 cm (females).
2	1 female.	Aug., 1884 (M 17), Okada.	[Japan Sea], Tango [Kyoto Pref.], Miyazu.	TL 18 cm
3	1 female.	Aug., 1891 (M 24).	[Kanagawa Pref.], Misaki.	TL 14.5 cm
4	1 spec.	7.xii.1882 (M 15).	Nabechi (hiragana script).	TL 56 cm

Family Tremoctopodidae.

Parasira catenulata ‘Blainville’ [*Octopus catenulatus* Philippi?] *sensu* Ikeda (1891a: 26). [*Ocythoe tuberculata* Rafinesque, 1814].

lot#	Specimens	Date and Collector	Locality	Comments
1*	1 female.	(no data)	Boshu [Chiba Pref.], Fuku-ura.	TL 30 cm, arm #1 20 cm, body 8 cm long, 6 cm wide.
2*	1 female.	Sept., 1885 (M 18), Sakamoto	Boshu, Kashiwazaki.	TL 24.5 cm.

Ikeda includes as a synonym “*P. pictus* Brock”.

Family Argonautidae.

1. *Argonauta hians* Lightfoot, 1786, *sensu* Ikeda. ‘takobune’ [octopus boat] (Ikeda, 1891a: 27).

lot#	Specimens	Date and Collector(s)	Locality	Comments
1	3 shells	(no data)	(no data)	height 9.5 cm, 7 cm, 6.3 cm
2	1 spec.	(no data)	(no data)	height 5.5 cm
3	1 shell	(no data)	(no data)	height 6.5 cm

2. *Argonauta argo* Linnaeus, 1758, *sensu* Ikeda. ‘takobune’ (Ikeda, 1891a: 27).

lot#	Specimens	Date and Collector(s)	Locality	Comments
1	1 spec.	(no data)	(no data)	shell height 15 cm

3. *Argonauta fragilis* Parkinson, 1856, *sensu* Ikeda (1891a: 27) [*cf. A. argo*].

lot#	Specimens	Date and Collector(s)	Locality	Comments
1	2 shells	(no data)	(no data)	3.3 cm, 1.8 cm

4. *Argonauta owenii* Adams and Reeve, 1850, *sensu* Ikeda (1891a: 28) [*cf. A. hians*].

lot#	Specimens	Date and Collector	Locality	Comments
1	4 shells	April, 1887 (M 20), Okada.	Izu Shichito [Izu Shoto Islands], Nijijima.	3 specs. height 5 cm, 1 spec. height 3 cm.

Family Loliginidae.

1. *Loligo sumatrensis* d’Orbigny, 1848, *sensu* Ikeda. ‘hi-ika’ (Ikeda, 1891a: 28).

lot#	Specimens	Date	Locality	Comments
1*	3 males, 4 females.	1.xii.1885 (M 18).	Tokyo market	TL 12–14 cm.

cf. Lololus japonicus 996.5.109.

2. *Loligo edulis* Hoyle, 1885. ‘yari-ika’ [spear squid] (Ikeda, 1891a: 29) [*Uroteuthis edulis*].

lot#	Specimens	Date and Collector	Locality	Comments
1*	1 female.	April, 1887 (M 20), Okada.	Izu [Shoto Islands group], Oshima.	TL 32 cm, ML 16 cm.
2	1 female.	(no data)	Soshu [Kanagawa Pref.], Enoshima.	TL 20 cm.

**cf. Uroteuthis kensaki* 996.5.117.

3. *Loligo bleekeri* Keferstein, 1866. ‘yari-ika’ (Ikeda, 1891a: 30 and 1891b: 61; 1891f: 331¶).

lot#	Specimens	Date	Locality	Comments
1	1 male.	7.xii.1882 (M 15).	Tokyo market.	TL 54 cm, ML 24 (34)¶ cm.
2	1 male, 1 female.	1st Feb. (year unknown).	Tokyo market.	TL 22, 23 cm.
3	1 male, 2 females.	20.xii.1885 (M 18).	Tokyo market.	ML 23 cm.

¶ see “Corrections and omissions,” below.

Genus *Sepioteuthis*.*Sepioteuthis lessoniana* Lesson, 1830 (Ikeda, 1891b: 61–62).

lot#	Specimens	Date and Collector	Locality	Comments
1*	1 male (37).	(no data)	[Japan Sea], Etchu [Toyama Pref.], Namerikawa.	TL 91 cm.
2	1 male.	(no data)	Tokyo Bay, Haneda.	TL 75 cm.
3	1 female.	(no data)	Tokyo market.	TL 28 cm.
4*	4 males, 1 female.	Sept., 1885 (M 18).	Tokyo market.	TL 26–29 cm.
5	1 female.	(no data)	(no data)	TL 42 cm.
6*	1 male.	April, 1887 (M 20), Okada.	[Sagami Bay], Izu Shichito [Izu Shoto Islands], Oshima, Habuminato.	TL 23 cm.
7	1 spec. (8).	(no data)	Tokyo market.	—

Family Sepiolidae.*Iniotheuthis morsei* Verrill, 1881, *sensu* Ikeda (Ikeda, 1891b: 62–63). [*cf. Euprymna morsei*, and *E. berryi* Sasaki, 1929].

lot#	Specimens	Date and Collectors	Locality	Comments
1	2 males, 4 females.	1.x.1885 (M 18).	Tokyo market.	TL 5.5–9.0 cm
2	1 ?female.	April, 1884 (M 17), Mitsukuri and Ishikawa.	Shunshu [Shizuoka Pref.], Enoura.	TL 2.5 cm.
3*	1 male, 1 female.	(no date), coll. Okada.	[Osaka Bay], Awaji [Island], Tsume-gun, Shumoto.	TL 6 cm
4	1 female, 1 juv.	(no data)	Soshu [Kanagawa Pref.], Miura-gun, Misaki.	TL 4.5 cm, <2.0 cm.
5	2 females.	(no data)	(no data)	TL c.4 cm.

Includes *Sepiola bursa* Pfeffer as a synonym.**Family Chiroteuthidae.***Chiroteuthis veranyi* Ferussac, 1835, *sensu* Ikeda (1891c: 144).

lot#	Specimens	Date	Locality	Comments
1*	2 specs. (14)	Sept., 1887 (M 20).	Soshu [Kanagawa Pref.], Miura-gun, Misaki, [Tokyo] Imp. Univ. Res. Stn.	TL 36 cm.

Family Ommastrephidae.**1.** *Ommastrephes pacificus* Steenstrup *sensu* Appellöf. 'surume-ika' [*Todarodes pacificus* (Steenstrup, 1880)] (Ikeda, 1891c: 145).

lot#	Specimens	Date	Locality	Comments
1	2 specs.	Sept., 1882 (M 15).	Tokyo market	ML 20.5 cm (both).

2. *Ommastrephes*, sp. 'surume-ika' (Ikeda, 1891c: 146).

lot#	Specimens	Date	Locality	Comments
1	7 specs., incl. 2 males (21.5).	(no data)	(no data)	All similar size.

3. *Ommastrephes insignis* Gould *sensu* Ikeda. 'surume-ika' (Ikeda, 1891c: 146).

lot#	Specimens	Date	Locality	Comments
1*	1 female, 1 male (24).	Sept., 1885 (M 18).	Soshu [Kanagawa Pref.], Odawara.	Both: fin 10 cm, tentacles 38 cm, TL 68 cm.

cf. Ommastrephes bartramii 996.5.53 (coll. Nov., 1885).**4.** *Ommastrephes*, sp. 'surume-ika' (Ikeda, 1891c: 147).

lot#	Specimens	Date	Locality	Comments
1	4 specs. (14)	(no data)	Tokyo market.	Fin 6 cm, width 8.5 cm, tentacles 24 cm.
2*	5 specs.	Sept., 1885 (M18).	Tokyo market.	Immature?

Histioteuthis sp. 'kuragedako' [jellyfish octopus] (Ikeda, 1891d: 240).

lot#	Specimens	Date and Collector	Locality	Comments
1	1 spec. (18).	4.iv.1889 (M 22), Fukuji Sakamoto.	Boshu [Chiba Pref.], Yoshihama.	TL 43 cm.

pp. 240–241 specimen discussed in some detail.

Onychoteuthis sp. 'beni-ika' [red squid] (Ikeda, 1891d: 241) [*Watasenia scintillans* (Berry, 1911)].

lot#	Specimens	Date and Collector	Locality	Comments
1*	25 specs. (4)	16.ii.1891 (M 24), Fukuji Sakamoto.	Boshu [Chiba Pref.], Nishizaki [Nishimisaki].	TL 3.5 cm. Sasaki, 1914b lot #3; 1916 lot #1.

pp. 241–242 discusses these specimens in some detail. Ikeda states that 10 specimens were sent to England [BMNH?]. This lot now contains only 16 specimens (see main ZUMT catalogue under *W. scintillans*). The other nine or ten have not been located at BMNH (A. MacLellan, pers. comm.).

Family Sepiidae, Genus *Sepia***1. *Sepia esculenta*** Hoyle, 1885. 'goto-ika' [Goto's cuttlefish?] (Ikeda, 1891d: 242).

lot#	Specimens	Date	Locality	Comments
1	2 males (21, 17), 2 females (22, 13).	Sept., 1881 (M 14), and Sept., 1885 (M 18).	Tokyo market	cf. Sasaki, 1914a: 611, lot #1.

2. *Sepia* sp. 'hari-ika' [needle cuttlefish] (Ikeda, 1891d: 243).

lot#	Specimens	Date	Locality	Comments
1	24 specs. (8–12).	Sept., 1881 (M 14), and Sept., 1885 (M 18).	Tokyo market	—

2 (sic). *Sepia peterseni* Appellöf, 1886. 'kaminari-ika' [thunder squid] (Ikeda, 1891e: 292).

lot#	Specimens	Date and Collector	Locality	Comments
1	12 specs. (both sexes).	Oct., 1885 (M 18).	Soshu [Kanagawa Pref.], Odawara.	Largest ML 10 cm.
2	11 specs. (both sexes).	Oct., 1885 (M 18), Fukuji Sakamoto.	Soshu, Odawara.	ML 8.5–11.0 cm.

3. *Sepia kubiensis* Hoyle, 1885 (Ikeda, 1891f: 324).

lot#	Specimens	Date and Collectors	Locality	Comments
1	2 females (6).	April, 1884 (M 17), Mitsukuri and Ishikawa.	Shunshu [Shizuoka Pref.], Enoura.	—

4. *Sepia andreanoides* Hoyle, 1885. 'suji-ika' (Ikeda, 1891f: 325).

lot#	Specimens	Date	Locality	Comments
1	4 males, 2 females.	Sept., 1885 (M 18).	Tokyo market.	Largest ML 9 cm.

5. *Sepia* sp. 'suji-ika,' 'sa-ika' (Ikeda, 1891f: 326–328).

lot#	Specimens	Date and Collector	Locality	Comments
1	1 male (18).	22.x.1885 (M 18).	[Kanagawa Pref.], Enoshima.	—
2	2 males (14.5), 1 female (12.5).	20.ii.1889 (M 22), Fukuji Sakamoto.	Boshu [Chiba Pref.], Kachiyama [Katsuyama].	—
3	1 male (18.5).	15.x.1883 (M 16).	Boshu [Kanagawa Pref., Yokohama], Fuku- ura.	—
4	1 male (12.5).	24.ii.1891 (M24), Fukuji Sakamoto.	[Kanagawa Pref.], Miura, Misaki.	—
5	1 male (12.5).	Sept., 1885 (M 18).	Tokyo market.	—

6. *Sepia elliptica* Hoyle, 1885. 'aka hari-ika' [red needle-squid] [*Sepia madokai* Adam, 1939] (Ikeda, 1891f: 328).

lot#	Specimens	Date and Collector	Locality	Comments
1*	1 male (5).	14.ii.1891 (M 24), Fukuji Sakamoto.	Soshu [Kanagawa Pref.], Miura, Misaki.	—

7. *Sepia sulcata* Hoyle, 1885. 'aka hari-ika' (Ikeda, 1891f: 328–329).

lot#	Specimens	Date and Collector(s)	Locality	Comments
1*	5 males, 7 females.	Sept., 1885 (M 18).	Tokyo market.	ML 3.5–5.5 cm.
2	3 females.	14.ii.1891 (M 24), Fukuji Sakamoto.	Soshu [Kanagawa Pref.], Miura, Misaki.	Largest ML 6 cm.

8. *Sepia kiensis* Hoyle, 1885. 'aka hari-ika' (Ikeda, 1891f: 329).

lot#	Specimens	Date	Locality	Comments
1	5 males, 11 females.	Sept., 1885 (M 18).	Tokyo market.	ML 4.0–5.5 cm.
2	1 male (5), 1 female (3).	Feb., 1891 (M 24).	Soshu [Kanagawa Pref.], Miura, Misaki.	—

Genus *Sepiella*.***Sepiella maindroni*** *sensu* Hoyle, 1886. [*Sepiella japonica* Sasaki, 1929] (Ikeda, 1891f: 330).

lot#	Specimens	Date and Collector(s)	Locality	Comments
1*	2 females.	8.ii.1891 (M 24), Fukuji Sakamoto.	Soshu [Kanagawa Pref.], Natagiri [Yokosuka City, Natsushima].	Both ML 12.7 cm.
2*	1 male, 3 females.	1.x.1885 (M 18).	Tokyo market.	ML 4.0–7.5 cm.

Incl. in synonymy: *Sepia inermis* Hasselt [in d'Orbigny], *S. sinensis* Gray, 1849, *S. microcheirus* Gray, 1849, *S. affinis* 'Sau.' and *S. tourannensis* 'Sau.' (*S. affinis* and *S. tourannensis* were described originally by Eydoux and Souleyet, 1852).

Tetrabranchiata, Family Nautilidae, Genus *Nautilus*.***Nautilus pompilius*** Linnaeus, 1758. (Ikeda, 1891f: 331).

lot#	Specimens	Date and Collectors	Locality
1	1 spec.	April, 1884 (M 17), Mitsukuri and Ishikawa.	Shunshu [Shizuoka Pref.], Enoura.
2	1 spec.	April, 1887 (M 20), Okada.	[Sagami Bay], Izu Shichito (Izu Shoto Islands), Oshima.
3	1 spec.	1888 (M 21), Yasusada Tashiro.	Ryukyu [Okinawa], Yaeyama [islands near Taiwan].
4	3 specs.	(no data)	(no data)

Corrections and omissions (listed in Ikeda, 1891f: 331).

1. It is noted that the data on *Loligo bleekeri* were duplicated in Ikeda, 1891a: 30, and Ikeda, 1891b: 60 [though not exactly: for lot #1, the ML listed is 24 cm in 1891a but 34 cm in 1891b].
2. Three additional localities for *Sepia esculenta* from the literature are appended to Ikeda, 1891d: 242.
3. Another published locality for *Sepia peterseni* is appended to Ikeda, 1891e: 292.