

List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012–2015).

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【要旨】

日本・デンマーク間の公式な関係は、1867年の修好通商航海条約、そして1870年の海底情報電信ケーブルの敷設について海底電信ケーブル会社のグレート・ノルディック（大北電信会社）と明治政府との間の約定が締結されたことに始まる。情報覇権の一環であった海底電信ケーブル敷設に伴うグレート・ノルディック及びその後の研究者によって日本から採集された海産生物標本は、主としてデンマークのコペンハーゲン大学（NHMD, ZMUC）、そしてスウェーデンのウプサラ大学（ME (UPSZTY, UPSZMC, UUZM)）に所蔵されたことが分かっていたが、その全体像は不明であった。2012年に最初の調査が行われた（松本2014）。本稿は2015年に新たに発見された標本及び、新種記載された *Melithaea sagamiensis* Matsumoto & Ofwegen, と *Melithaea suenisoni* Matsumoto & Ofwegen, 2015の2種のタイプ標本を加えたリストである。

【キーワード】

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【Abstract】

The relation between Japan and Denmark officially started with the conclusion of the Treaty of Amity and Commerce in 1867, and contraction between the Japanese government and the Danish Telegraph Company in 1870, Biological materials from Det Store Nordiske were deposited in the University of Copenhagen, Denmark and Uppsala University, Sweden, but the details of Japanese and North-West Pacific cold-water coral collection were not clear until 2012 survey (Matsumoto, 2014). This manuscript shows the updated list of 2014 with newly found materials in 2015 and two new Type materials of

Melithaea sagamiensis Matsumoto & Ofwegen 2015 and *Melithaea suenisoni* Matsumoto & Ofwegen, 2015 (Table 1).

【Keywords】

Cold water coral Deep-sea coral new species Store Nordiske
Submarine telegraph Cable

The relation between Japan and Denmark officially started with the conclusion of the Treaty of Amity and Commerce in 1867, and contraction between the Japanese government and the Danish Telegraph Company, "Det Store Nordiske" to manufacture and lay the submarine information telegraph cables in Japanese waters in 1870.

Det Store Nordiske Telegraf-Selskab A/S (Great Nordic Ltd. A/S or The Great Northern Telegraph Company in English:) is the telegraph company that was established in 1869 in Copenhagen, Denmark. Det Store Nordiske had a telegraph station at Belle Vue Hotel Oura, Nagasaki, Japan since 1871 (Petersen, 1919, Nagashima, 2013). On 12th Augsut, 1871, Nagasaki (Japan) - Shanghai (China) submarine-telegraph started, and Nagasaki-Vladivostok (Russia) submarine-tepegraph started on 1st January, 1872. During the telegraph cable layer construction or, facilitation, submarine cable laying vessel has by-caught several marine organisms including corals attached or tangled to cables. These biological materials were officially sent by Det Store Nordiske and deposited to Universities for scientific purpose.

The octocoral specimens collected from Japan and the North West Pacific (NWP) in 19-20 centuries in Museum of Evolution, Uppsala University, Sweden (ME (UPSZTY, UPSZMC), previously UUZM) and Zoological Museum, University of Copenhagen, Denmark (NHMD, previously ZMUC) were surveyed in 2012 (Matsumoto, 2014). In 2015, an additional specimen survey has been conducted at Univerisity of Copenhagen. In this manuscript, I am going to update the Japanese octocoral collection list including newly found materials (Table 1).

Based on the 2012 survey, two new species of Japanese octocoral *Melithaea sagamiensis*, Matsumoto & Ofwegen, 2015 and *Melithaea suenisoni*, Matsumoto & Ofwegen, 2015 (family Melithaeidae) are described in Matsumoto & Ofwegen, 2015. Paratypes of *M. sagamiensis* are ZMUC ANT-000657, ZMUC ANT-000660 collected by Mortensen in 1914, Holotype of *M. suenisoni* is ZMUC ANT-000565 collected by Suenson at off Nagasaki, the

East China Sea in 1900. The new species *M.suensoni* was named after the collector. One syntype material of *Melithaea frondosa* (Brundin, 1896) (family Melithaeidae) deposited in Uppsala (EM, UUZM) were re-described (UPSZTY 2164 (old number UUZM 67)). The material was also collected by Kapt. Suenson at Hirado Strait, Nagasaki, Japan (year unknown). As an erratum: ZMUC ANT-000651 is in "material examined" of *Melithaea tenuis* but also in "variation" of *M. sagamiensis* in Matsumoto & Ofwegen, 2015, The correct species of ZMUC ANT-00651 is *Melithaea tenuis*.

E. Suenson or Kapt. Suenson is known to belong to Det Store Nordiske, Denmark. Suenson collected at least 76 specimen of octocorals (35 gorgonians (checked), 15 alcyonarians (checked), 7 pennaturaceans (checked) + 2 gorgonians (only in database) octocorals and 17 alcyonarians (database)) in NHMD (ZMUC) and 13 octocorals in Uppsala from North West Pacific.

In the database of GBIF-Sweden: Zoology (Museum of Evolution- Uppsala), his name is recorded as E.Svenson. There are only two octocoral collected by Suenson in GBIF data, however, there are additional 100 biological specimens with his name were recorded in GBIF data. (Matsumoto, 2014). The locality are, Formosa Strait (= Taiwan Strait, the East China Sea), Off Nagasaki (Japan, the East China Sea), Korea Strait, Vietnam (the South China Sea), Yangtze (China), Hong Kong (China) etc. In Japan,

There were two E. Suenson in Det Store Nordiske. The first famous E. Suenson in Japan is the director of Det Store Nordiskedouard Suenson (1842-1921). He visited Japan 1866-1867 (Suenson, 1869-70). When Japan and Denmark had agreement for the lying of submarine telegraph cable in 1870, Edouald Suenson joined at the meeting as a representative of Det Store Nordiske. He became the director of Det Store Nordiske from 1877 to 1908 (Ohno, 2012; Nagashima, 1989).

The second E. Suenson is Ejnar Suenson (1850-1923). He seemed to stay in Shanghai, China from about 1899 to 1912, He was a captain of submarine cable laying vessel of Det Store Nordiske. He collected specimens from Japan to Korea, China and Philippines. Suenson sent all kinds of animals found on the submarine cables. An ophiuroid *Astroclon suensoni* Mortensen, 1911 was named after him.

E. Suenson was initiated scientific practice by Japetus Steenstrup, a professor in Zoology, the University of Copenhagen from 1845 to 1885. According to the practice, he collected materials from the cable laying vessel. The conditions of his collection in NHMD

(ZMUC) is still good for a scientific purpose after 100 years.

Japetus Steenstrup was known to persuade Danish ship's captains and Danish officials in different countries to send specimens for the NHMD (ZMUC) collections. The connection to 'Det Store Nordiske' continued at least until 1911. An exclusive privilege of telegraph by Det Store Nordiske in Japan finished in 1913.

Before Suenson an engineer, Schonau, sent specimens.(pers. Comm. Prof. Dr. Ole Tendal, University of Copenhagen, 2012). Schonau collected 20 octocoral specimens in NHMD (ZMUC).

Hans Christiansen collected 11 (checked) and 2 (ZMUC database) octocorals from Japan and North West Pacific. He was a Suenson's successor as captain of the cable laying ship. (pers. Comm. Prof. Dr. Ole Tendal, University of Copenhagen, 2012).

The name of the Danish consul in Singapore, Svend Gad (pers. Comm. Prof. Dr. Ole Tendal, University of Copenhagen, 2012) also found on some specimen labels but he did not collect octocorals.

J. Petersen, or Kaptain Petersen collected 6 specimens from NWP of Uppsala (ME). His material also catalogued in 1892 in Natural History Museum, Wien, Austria (Matsumoto, 2015). Julius V. Petersen (1852-1928) was telegraph operator of Store Nordiske Office, Nagasaki, Japan in 1871. He mentioned that there were 7 Danish telegraph operators stayed in Bell vue Hotel, Nagasaki (Petersen, 1919). Frederik Kolvig (1848-1929) also mentioned J. Petersen, who was agent of .in 1874 (Nagashima 2013). It is not clear J. Petersen in the collection and Julius V. Petersen were same person.

Eighteen (checked) and 1 (database) octocorals donated by Store Nordiske are counted in ZMUC collection including E.Pagh's 2 material. The collector is sometimes mentioned as "cable damper", or "telegraph cable", Store Nordiske".

Mortensen who collected paratype of *M. sagamiensis* is Dr. Phil Th. Mortensen. Total 128 octocorals and one black coral from Japanese water were recognized in ZMUC. 2 other octocorals are listed in ZMUC database. Dr. Phil. Th. Mortensen was a biologist who worked on ophiuroids (Brittle stars), had Pacific Expedition was conducted between 1913 and 1916 (Mortensen, 1933). He visited Japan from April to July in 1914. See Table 2 of Matsumoto 2014 for the details of station during Expedition in Japan.

Total 31 specimens of octocorals and 2 specimens of black corals from Japanese waters collected by Dr. Sixten-Bock's 1913-1914 expedition were recognized in Uppsala University.

Throughout the survey in 2012 and 2015, it is obviously that the donation by Det Store Nordiske are quite large volume of the Japanese octocoral collection. Additional re-descriptions of these materials are undergoing and it suggests that there exist additional new species in the collection. Apparently, unsorted, unidentified materials in Copenhagen (ZMUC) are also valuable for scientific study. Uppsala (ME) collection has other highly important role because they include several Japanese type materials (Aurivillius, 1931; Brundin, 1896; Hedlund, 1890). All these materials need to be re-examined and re-described with current imaging analysis for future study on cold water coral fauna in Japan.

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List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012-2015).

Table 1. List of Japanese and North West Pacific (NWP) octocoral specimen in UUZM, Uppsala University, Sweden and ZMUC, University of Denmark (updated from Matsumoto 2014; Table 1)
 * Data are referred from specimen label, excluding "(Old number)" and "(Riksmuseum)", which are only referred from literature and could not be recognized by author in this study.
 * "UPSZT" or "UPSZMC" are confirmed in database in UPSZTY, and "GBIF****" is registered in database in GBIF (Global Biodiversity Information Facility)-Sweden, but were not checked by author in present study.
 Abbreviation: Uppsala Univ.Zool.Mus.(UUZM) (=Museum of Evolution, Uppsala University(UPSZTY, UPSZMC)); Zoological Museum, Natural History Museum of Denmark, University of Denmark (NHMD, ZMUC; Naturhistoriska riksmuseet, Swedish Museum of Natural History, Stockholm, Sweden (Riksmuseum); Zoologische Staatssammlung München (ZSM))

New number	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
From Kapitän Suenson:								
1	UPSZTY2127	Type	<i>Suensonia mollis</i> Brundin, 1896	Korea Strait (Between Tshuma and Korea)	115m		Kaptän Suenson	the specimen with the label <i>Ssimpllex</i> is no longer the type material of this species. Colonies are different from figure of description paper (Brundin, 1896)
2	UPSZTY2174	Type	<i>Solenocaulon simplex</i> Brundin, 1896	China-sea 30°44' N, 123°35' E.	(30fms)		Kapt. Suenson	
3	UPSZTY2163	Type	<i>Dendronephthya suensoni</i> Holm, 1895	Japan, Hirado Strait			original ex. Kapt. E. Suenson	Hirudo-Hirado
4	UPSZTY154030	LECTOTYPE	<i>Eleutherobia rubra</i> (Brundin, 1896)	Japan, Tsuganu Strait			Kapt. Suenson	
5	UPSZTY2169	LECTOTYPE	<i>Eleutherobia rubra</i> (Brundin, 1896)	Japan, Hirado Strait, 33°5' N, 128°16' E.			Kapt. Suenson	<i>Bellonella rubra</i> lectotype Brundin 1896, det. Verseveldt, 1985. . Hirudo-Hirado
6	UPSZTY154031	LECTOTYPE	<i>Eleutherobia rubra</i> (Brundin, 1896)	Japan, Hirado Strait, 33°5' N, 128°16' E.			Kapt. Suenson	Hirudo-Hirado
7	UPSZTY2160	Type	<i>Eleutherobia rubra</i> (Brundin, 1896)	Japan, Hirado Strait (33°10' N, 129°16' E.)			Kapt. Suenson	<i>Bellonella cinerea</i> TYPE. (33°10' N.B., 129°16' O.L. in Aurvilius, 1931). det. Verseveldt, 1985, Hirudo-Hirado
8	UPSZTY2164	Type	<i>Melithaea frondosa</i> (Brundin, 1896)	Japan, Hirado Strait, 33°10' N., 129°18' E.			Kapt. Suenson	<i>Psilacabaria frondosa</i> TYPE, det. Brundin, Hirudo-Hirado
9	UPSZTY2182	Type	<i>Echinogorgia japonica</i> Aurvilius 1931	Japan, Hirado Strait, 33°5' N., 129°15' E.		1890	Kapt. Suenson (Store Nordiske)	128°16' E., Capt. Svansson (Uppsala Mus.) in Aurvilius, 1931.
10	UPSZTY2178	Type	<i>Plexauroides verrucosa</i> Brundin, 1896	Japan, Hirado Strait, 33°5' N, 129°15' E.			Kapt. Suenson	Omsatt 1932, Hirudo-Hirado
11	UPSZTY2178	Type	<i>Plexauroides verrucosa</i> Brundin, 1896	Japan, Hirado Strait, 33°5' N., 129°15' E.			Kapt. Suenson	Hirudo-Hirado
1	*UPSZMC62386	-	<i>Echinomuricea petersemi</i> Hedlund, 1890	Japan, Hirado Strait, 33°5' N., 129°15' E.			Kapitan Suenson	in Brundin, 1896, Aurvilius, 1931 and UPSZMC database, GBIF2622778 (Catalog no.542), Hirudo-Hirado
2	*UPSZMC62380	-	<i>Muricea umbraticoides</i> Studer, 1878	Fermosa Strait, 26°30' N, 121°30' E	36fms		Kapitan Suenson	in Brundin, 1896, Aurvilius, 1931 and UPSZMC database, GBIF2622778 (Catalog no.542), Hirudo-Hirado
1	ZMUC ANT-000695	ZMUC150723-80	<i>Dendronephthya</i> sp.	100 miles W of Nagasaki, Japan, 32-12'N, 128-10'E	100 fms	1897/10/20	Suenson	Journal: 1900/07/29
2	ZMUC ANT-000698	ZMUC150723-83	<i>Dendronephthya</i> sp.	Korea, 33-41'N, 129-25'E	50 fms	1898/1/12	Suenson	Journal: 1901/11/23
3	ZMUC ANT-000699	ZMUC150723-84	<i>Dendronephthya</i> sp.	30 miles N of Nagasaki, Japan, 33N, 129-25 E.	30 fms	1898/5/13	Suenson	
4	ZMUC ANT-000700	ZMUC150723-85	<i>Dendronephthya</i> sp.	Hirado Strait, Japan, 33-10'N, 129-18'E	40 fms	1897/9/17	Suenson	Journal:1901/11/23
5	ZMUC ANT-000688	ZMUC150723-73	<i>Eleutherobia rubra</i> (Brundin, 1896)	Japan	40 fms	1900/9/17	Suenson	Label almost all faded: Date of collection uncertain
6	ZMUC ANT-000764	ZMUC120604-24	<i>Telesto</i> sp.	Nagasaki			Suenson	
7	ZMUC ANT-000665	ZMUC120430-12	Holotype <i>Melithaea suensoni</i> Matsumoto & Ofwegen, 2015	Off Nagasaki, 32°22'N, 128°42'E.	170 fms	1900/12/25	Suenson	1901/11/23

New number	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
8	ZMUC ANT-000571	ZMUC120430-05	<i>Melithaea japonica</i>	Vladostok-Nagasaki, 33°8'N., 129°20'E.	36 fms	1890/5/14	Suenson?	Vladostok : 1895/11/15
9	ZMUC ANT-000573	ZMUC120430-02	<i>Melithaea modesta</i>	80 miles off Nagasaki	150fms	1904/4/15	Suenson	previously identified as Subergorgia
10	ZMUC ANT-000582	ZMUC120430-23	<i>Acalyngorgia</i> sp.	32°15'N., 128°20'E. ca. 100 miles off Nagasaki, 32°12'N., 128°10'E.	100 fms	1897/10/20	Suenson	Journal: 1900/7/29
11	ZMUC ANT-000749	ZMUC150723-04	<i>Acanthogorgia multispina</i>	32-22°N., 128-42°E.	320 m	1900/12/25	Suenson	det. Jurgensen, Journal. 23/11/1901, 2 colonies
12	ZMUC ANT-000572	ZMUC120430-01	<i>Acanthogorgia</i> sp.	80 miles off? Nagasaki 32°15'N., 128°20'E.	150fms	1904/4/14	Suenson	(Journals?) Th. Authon, 1911/4/19, ??V.F.???: Bottom temp. 55
13	ZMUC ANT-000577	ZMUC120430-20	<i>Acanthogorgia</i> sp.	34°31'N., 129°38'E.	55 fms	1911/4/19	Suenson	Th. Authon
14	ZMUC ANT-000578	ZMUC120430-14	<i>Acanthogorgia</i> sp.	32°12'N., 128°10'E.	100 fms	1897/10/20	Suenson	Bottom Temp. 61°F. 1911/10/1
15	ZMUC ANT-000583	ZMUC120430-18	? <i>Echinomuricea</i> sp.	Japan, Tsugaru Strait	1880	1880	Suenson	1901/11/23
16	#	ZMUC120604-08	? <i>Echinomuricea</i>	Koreas Kyeas, 37°N., 129°E.	45 fms	1882	Suenson	
17	ZMUC ANT-000673	ZMUC120430-11	? <i>Euplexaura</i> sp.	Japan, Tsugaru Strait	1882	1882	Suenson	
18	ZMUC ANT-000586	ZMUC120430-13	? <i>Euplexaura</i> sp.	34°31'N., 129°38'E.	55 fms	1911/6/8	Suenson	Bottom Temp. 61°F. 1911/10/1
19	ZMUC ANT-000576	ZMUC120430-17	? <i>Euplexaura</i> sp.	34°31'N., 129°38'E.	55 fms	1911/6/8	Suenson	Bottom Temp. 61°F. 1911/10/1
20	ZMUC ANT-000575	ZMUC120430-16	? <i>Villogorgia</i> sp.	ca. 100 miles off Nagasaki	100 fms	1897/10/20	Suenson	Th. Authon
21	ZMUC ANT-000584	ZMUC120430-26	? <i>Villogorgia</i> sp.	32°12'N., 128°40'E.	100 fms	1897/10/20	Suenson	Journal: 1900/7/29
22	ZMUC ANT-000568	ZMUC120430-11	Plexauridae	33°10'N., 129°18'E.	40 fms	1897/9/17	Suenson	
23	ZMUC ANT-000569	ZMUC120430-03	Plexauridae	Kino-Soon, 32°N., 126°50'E	60 fms	1882	Suenson	
24	ZMUC ANT-000596	ZMUC120430-39	Plexauridae	Nagasaki	36 fms	1890/5/14	Suenson	1895/11/15
25	ZMUC ANT-000563	ZMUC120430-10	Plexauridae	33°8'N., 129°20'E.	100 fms	1897/10/20	Suenson	Journal: 1900/7/29
26	ZMUC ANT-000581	ZMUC120430-24	Plexauridae	ca. 100 miles off Nagasaki, 32°12'N., 128°10'E.	100 fms	1897/10/20	Suenson	Journal: 1900/7/29
27	ZMUC ANT-000570	ZMUC120430-04	<i>gorgonia</i>	Japan, Tsugaru Strait	1882	1882	Suenson	Plexauridae
28	ZMUC ANT-000579	ZMUC120430-25	<i>Plumarella</i> sp.	E. of Asieu	1900/7/29	1900/7/29	Suenson	
29	ZMUC ANT-000580	ZMUC120430-15	<i>Plumarella</i> sp.	100 miles off Nagasaki 32°12'N., 128°40'E.	100 fms	1897/10/20	Suenson	1900/7/29
30	ZMUC ANT-000769	ZMUC150723-43	<i>Callogorgia flabellum</i>	East Asia, North West Pacific			Suenson	dry, Journal:1882
31	ZMUC ANT-000770	ZMUC150723-44	<i>Callogorgia flabellum</i>	East Asia, North West Pacific			Suenson	dry, Journal:1882
32	ZMUC ANT-000748	ZMUC150723-03	<i>Plumarella longispina</i>	Nansa (Spratly Islands), the South China Sea		1911/4/19	Suenson	2 colonies
33	ZMUC ANT-000564	ZMUC120430-08	<i>Chrysogorgia</i> sp.	32°2'N., 125°E		1900/7/2	Suenson	Det. enikke absolute sikkert at ?Hkettlem Dyr. Et sommerhd 1901/11/23
34	ZMUC ANT-000574	ZMUC120430-21	<i>Chrysogorgia</i> sp.	32°22'N., 128°42'E.	170 fms	1900/12/25	Suenson	Journal: 1900/7/29
35	ZMUC ANT-000585	ZMUC120430-22	<i>Chrysogorgia</i> sp.	ca. 100 miles off Nagasaki, 32°12'N., 128°10'E.	100 fms	1897/10/20	Suenson	(Journal?) 1900/7/29?
36	ZMUC ANT-000566	ZMUC120430-07	<i>Chrysogorgia</i> sp.	100 miles off? Nagasaki, 32°12'N., 128°10'E.	100 fms	1897/10/20	Suenson	
37	ZMUC ANT-000567	ZMUC120430-06	<i>Chrysogorgia</i> sp.	100 miles off? Nagasaki, 32°12'N., 128°10'E.	105 fms	1897/10/26	Suenson?	? V.F.???: "Store Nordiske"
38	ZMUC ANT-000562	ZMUC120430-09	<i>Chrysogorgia</i> sp.	32°2'N., 128°45°E.	105 fms	1898/5/12	Suenson	1901/11/23
39	ZMUC ANT-000737	ZMUC150723-88	Isididae	15 miles W of Nagasaki, Japan		1898/5/12	Suenson	
40	ZMUC ANT-000795	ZMUC150723-89	<i>Leoptilus</i> sp.	Tsugaru strait, Japan			Suenson	Journal: 1882
41	ZMUC ANT-000799	ZMUC150723-101	<i>Pavonaria</i> sp.	Korea			Suenson	
42	ZMUC ANT-000754	ZMUC150723-71	<i>Pennatulula murrayi</i>	100 miles W of Nagasaki, Japan, 32-12'N., 128-10'E	105-128 fms	1887/10/28	Suenson	

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New number	Old number	Status	Species	Locality (En)	Depth	v/m/d	Collector	Remark
43	ZMUC ANT-000768	ZMUC150723-42	<i>Pennatulia phospororea</i> var. <i>longispinosa</i>	North West Pacific			Suenson	Kongl. Museum, dry
44	ZMUC ANT-000755	ZMUC 150723-70	<i>Virgulina gustaviana</i> (Herklots, 1863)	Korea			Suenson	
45	ZMUC ANT-000779	ZMUC	<i>Virgularia juncea</i> (Pallas, 1766)	31°N, 124°E	21 fms		Suenson	Journal: 1882. same bottle with ZMUC-ANT-000576-583
46	ZMUC ANT-000689	ZMUC150723-74	Undet. Alcyonacea	East Asia, North West Pacific		1897/10/20	Suenson	Journal: 1901/11/23
47	ZMUC ANT-000690	ZMUC150723-75	Undet. Alcyonacea	East Asia, North West Pacific		1897/10/20	Suenson	Journal: 1901/11/23
48	ZMUC ANT-000681	ZMUC150723-76	Undet. Alcyonacea	East Asia, 12°N, 128-10°E		1897/10/20	Suenson	Journal: 1901/11/23
49	ZMUC ANT-000694	ZMUC150723-79	Undet. Alcyonacea	42-3°N, 130-30°E	400 fms	1900/1/1	Suenson	Journal: 1901/11/23
50	ZMUC ANT-000693	ZMUC150723-78	Undet. Alcyonacea	41-58°N, 130-30°E	620 fms	1900/1/2	Suenson	Journal: 1900/10/15
51	ZMUC ANT-000687	ZMUC150723-72	Undet. Alcyonacea	15 miles W of Nagasaki, Japan, 32-40°N, 129-34°E	60 fms	1903/12	Suenson	Journal: 1911/4/19
52	ZMUC ANT-000692	ZMUC150723-77	Undet. Alcyonacea	15 miles W of Nagasaki, Japan, 32-40°N, 129-34°E	60 fms	1903/12	Suenson	Journal: 1911/4/19
53	ZMUC ANT-000696	ZMUC150723-81	Undet. Alcyonacea	80 miles W of Nagasaki, Japan, 32-15°N, 128-20°E	100 fms	1904/5/15	Suenson	Bottom Temp. 55° F; Journal: 1911/04/19
54	ZMUC ANT-000697	ZMUC150723-82	Undet. Alcyonacea	W of Nagasaki, Japan, 33-13°N, 129-25°E	90 fms	1898/5/13	Suenson	2 species, Journal: 1900/01/29?
55	ZMUC ANT-000701	ZMUC150723-86	Undet. Alcyonacea	Tsugaru strait, Japan			Suenson	Almost impossible to read the label: faded
56	ZMUC ANT-000754	ZMUC150723-71	Undet. Gorgonacea	North West Pacific			Suenson	Large Bottle, wet
57	ZMUC ANT-000794	ZMUC150723-87	Undet. Pennatulacean	Formosa Strait	55 fms		Suenson	
1		*ZMUC	<i>Chromonephthya intermedia</i> (Thomson & Dean, 1931)	North West Pacific			Suenson	<i>Spongodes intermedia</i>
2		*ZMUC	<i>Dendronephthya aculeata</i> Kükenthal, 190	North West Pacific			Suenson	<i>Spongodes aculeata</i>
3		*ZMUC	<i>Dendronephthya armata</i> Holm, 1895	North West Pacific			Suenson	<i>Roxasia armata</i>
4		*ZMUC	<i>Dendronephthya candida</i> Pütter, 1900	North West Pacific			Suenson	<i>Roxasia candida</i> , 5 specimen
5		*ZMUC	<i>Dendronephthya divaricata</i> Gray, 1862	North West Pacific			Suenson	<i>Roxasia divaricata</i>
6		*ZMUC	<i>Dendronephthya dromidicola</i> Utinomi, 19	North West Pacific			Suenson	<i>Morchellana dromidicola</i>
7		*ZMUC	<i>Dendronephthya erinacea</i> Kükenthal, 190	North West Pacific			Suenson	<i>Roxasia erinacea</i>
8		*ZMUC	<i>Dendronephthya gigantea</i> Verrill, 1864	North West Pacific			Suenson	<i>Spongodes gigantea</i>
9		*ZMUC	<i>Dendronephthya gloriosa</i> Utinomi, 1952	North West Pacific			Suenson	<i>Morchellana gloriosa</i>
10		*ZMUC	<i>Dendronephthya laxa</i> Wright & Studer, 1889	North West Pacific			Suenson	<i>Roxasia laxa</i>
11		*ZMUC	<i>Dendronephthya mollis</i> Holm, 1895	North West Pacific			Suenson	<i>Roxasia mollis</i> , 2 specimen
12		*ZMUC	<i>Dendronephthya pütteri</i> Kükenthal, 1905	North West Pacific			Suenson	<i>Roxasia pütteri</i>
13		*ZMUC	<i>Dendronephthya radiata</i> Kükenthal, 1905	North West Pacific			Suenson	<i>Roxasia radiata</i>
14		*ZMUC	<i>Dendronephthya semperi</i> Studer, 1888	North West Pacific			Suenson	<i>Spongodes semperi</i> , 3 specimen
15		*ZMUC	<i>Dendronephthya tenera</i> Holm, 1895	North West Pacific			Suenson	<i>Roxasia tenera</i>
16		*ZMUC	<i>Dendronephthya tripartita</i> Henderson, 19	North West Pacific			Suenson	<i>Morchellana tripartita</i>
17		*ZMUC	<i>Pseudocladoclonus hicksani</i> Versluis, 1907	North West Pacific			Suenson	
18		*ZMUC	<i>Acanthogorgia armata</i> Verrill, 1878	North West Pacific			Suenson	Could not find material in 2015 survey
19		*ZMUC	<i>Marella allmani</i> (Wright & Studer, 1889)	North West Pacific			Suenson	Could not find material in 2015 survey
			<i>Acanthogorgia</i> sp.	Japan, 33-9°N, 129-18°E	40 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-000709
			Plexauridae	Japan, 33-9°N, 129-18°E	40 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-000708
			<i>Acanthogorgia</i> sp.	Japan, 32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-000711-712-713
			<i>Acanthogorgia</i> sp.	Japan, 32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-000710-712-713
			<i>Acalyfgorgia</i> sp	Japan, 32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-000710-711-713

From Schönmäu ("Store Nordiske")

- 1 ZMUC ANT-000708 ZMUC150723-12
- 2 ZMUC ANT-000709 ZMUC150723-13
- 3 ZMUC ANT-000710 ZMUC150723-14
- 4 ZMUC ANT-000711 ZMUC150723-15
- 5 ZMUC ANT-000712 ZMUC150723-16

New number	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
6	ZMUC ANT-000713	ZMUC150723-17	<i>Acanthogorgia</i> sp.	Japan, 32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-000710-711-712
7	ZMUC ANT-000715	ZMUC150723-19	<i>Plumarella</i> sp.	Japan, 32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	2 colonies
8	ZMUC ANT-000719	ZMUC150723-23	<i>Chrysogorgia</i> sp.	Japan, 32°10'N, 128°20'E			Schönmäu	
9	ZMUC ANT-000720	ZMUC150723-24	? <i>Echinogorgia</i> sp. gorgonian	Japan, 32°10'N, 128°22'E		1899/7	Schönmäu	
10	ZMUC ANT-000721	ZMUC150723-25		Japan, 33°9'N, 129°8'E	40 fms	1898/5/23	Schönmäu	Store Nordiske
11	ZMUC ANT-000722	ZMUC150723-26		36°13'N, 129°10' E	100 fms	1887/4/10	Schönmäu	same bottle with ZMUC-ANT-00015; colour: pink
12	ZMUC ANT-000718	ZMUC150723-22	<i>Melithaea corymbosa</i>	33°9'N, 129°18'E	40 fms	1898/5/23	Schönmäu	
13	ZMUC ANT-000717	ZMUC150723-21	<i>Melithaea corymbosa</i>	32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	
14	ZMUC ANT-000716	ZMUC150723-20	<i>Melithaea tenuis</i>	32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	same bottle with ZMUC-ANT-00016; colour: orange
15	ZMUC ANT-000680	ZMUC150723-54	Acyoniidae	Nagasaki (or Wadivostok), 41-50°N, 124-53'E		1898/5/10	Schönmäu	Kgl Vet. & Lbhsk. Zool Samling. Journal: 1895/11/14
16	ZMUC ANT-000681	ZMUC150723-55	Acyonacea	Japan, 32°10'N, 128°20'E	100 fms	1898/5/23	Schönmäu	Store Nordiske
17	ZMUC ANT-000682	ZMUC150723-56	<i>Dendronephthya</i> sp.	Nagasaki (or Wadivostok), 33-5°N, 128-22'E	25 fms	1893/7	Schönmäu	Temp: 70° F; Journal: 1895/11/14
18	ZMUC ANT-000683	ZMUC150723-57	<i>Dendronephthya</i> sp.	Nagasaki (or Wadivostok), 33-5°N, 128-20'E	25 fms	1893/7	Schönmäu	Temp: 70° F
19	ZMUC ANT-000797	ZMUC150723-91	unidentified Pennatulacea	100 miles W of Nagasaki, Japan, 32-12°N, 128-10°E	105 fms	1897/10/28	Schönmäu	Store Nordiske
20	ZMUC ANT-000785	ZMUC	<i>Virgularia gustaviana</i> (Herklots, 1863)	China, Jangtsekiang	5 fms	1890/4/26	Schönanu	same bottle with ZMUC-ANT-000576-582
From Kapt. Hans Christiansen (=?Kapt. H. Christiansen, =?Christiansen, not A.F. Christiansen, or T.A. Christiansen)(?Store Nordiske*)								
1	ZMUC ANT-000684	ZMUC150723-58	<i>Dendronephthya</i> sp.	Japan, 32-15°N, 128-20°E	100 fms	1926/4/17	Kapt. H. Christiansen	Journal: 1926/12/1
2	ZMUC ANT-000685	ZMUC150723-59	<i>Dendronephthya</i> sp.	Japan, 32-15°N, 128-20°E	100 fms	1926/4/17	Kapt. H. Christiansen	Journal: 1926/12/1
3	ZMUC ANT-000707	ZMUC150723-11	? <i>Echinogorgia</i> sp.	North West Pacific, 32-15°N, 132-20°E	100 fms	1926/4/17	Kapt. Hans Christiansen	Journal: 1926/1/12
4	ZMUC ANT-000706	ZMUC150723-10	<i>Paracis</i> sp.	North West Pacific, 32-15°N, 128-20°E	100 fms	1926/4/17	Kapt. Hans Christiansen	Journal: 1926/1/12
5	ZMUC ANT-000605	ZMUC120604-63	Plexauridae	Tsushima Strait, 33-50°N, 129-25°E.	55 fms	1956/12/12	Kapt. Hans Christiansen	18 dC, Styrm. Journal. 1957/5/1
6	ZMUC ANT-000705	ZMUC150723-09	Ellisellidae	North West Pacific, 32-15°N, 128-20°E	100 fms	1926/4/17	Kapt. Hans Christiansen	Journal: 1926/1/12
7	ZMUC ANT-000714	ZMUC150723-18	<i>Plumarella</i> sp.	Japan, 32-15°N, 128-20°E	100 fms	1926/4/17	Kapt. Hans Christiansen	date is too recent
9	ZMUC ANT-000753	ZMUC150723-69	<i>Virgularia gustaviana</i> (Herklots, 1863)	32-28°N, 119-40°E		1892/10/13	Christiansen	
8	ZMUC ANT-000686	ZMUC150723-60	Undet. Alcyonacea	Japan, 33-10°5'N, 129-18'7"E			Kapt. H. Christiansen	Bottom T: 62' F
9	ZMUC ANT-000674	ZMUC150723-61	Undet. Alcyonacea	Japan, 32-48'N, 129-3'7"E		1912/4/23	H. Christiansen	Store Nordisk. wet. "09/04/1913"
10	ZMUC ANT-000702	ZMUC150723-06	Undet. Gorgonacea	Japan, Tsushima Strait, 33-50°N, 129-25°E	55 fms	1956/12/12	Kapt. Hans Christiansen	Temperature: 18° C; Journal: 1957/5/1, wet.
1		*ZMUC	<i>Dendronephthya decussatospinosa</i> Ubroni, 1952	North West Pacific			Kapt. H. Christiansen	?=ZMUC ANT-000684
2		*ZMUC	<i>Dendronephthya laxa</i> Wright & Studer, 1889	North West Pacific			Kapt. H. Christiansen	?=ZMUC ANT-000685

List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012-2015).

New number	Old number	Status	Species	Locality (En)	Depth	v/m/d	Collector	Remark
From Kapitän J. Petersen ("Store Nordiske")								
1 UPSZTY2153	UUZM56	Type	<i>Acalygiorgia inermis</i> (Hedlund, 1890)	40 miles N. of Hongkong	50m		J. Petersen	
2 UPSZTY2145	UUZM48a	Type (Spec.a)	<i>Acanthogorgia hedlundii</i> Aurivillius, 1931	Formosa Strait, 50 miles S. of Anoy	35fms		J. Petersen	omsatt 1931
3 UPSZTY2146	UUZM49	Type	<i>Echinomuricea petersenii</i> Hedlund, 1890	40 miles N. of Hongkong			J. Petersen	
4 UPSZTY2129	UUZM32	Type	<i>Euplexaura anastomosans</i> Brundin, 1896	Japan			Kapt. J. Petersen	Kjellman
5 UPSZTY2149	UUZM52	Type	<i>Euplexaura multiflora</i> Aurivillius 1931	40 miles N. of Hongkong	30fms		J. Petersen	
6 UPSZTY2154	UUZM57	Type	<i>Placogorgia foliata</i> (Aurivillius, 1931)	50 miles N. of Hongkong	35fms		Kapt. J. Petersen	<i>Pseudohessea foliata</i> TYPE
From E.Pagh ("Store Nordiske")								
1 ZMUC ANT-000703	ZMUC150723-07		unidentified	32°21'N, 128°41'E	98-110 fms	1928/8/7	E.Pagh	Store Nordiske, Journal:1957/5/1
2 ZMUC ANT-000704	ZMUC150723-08		<i>Melithaea sagamiensis</i>	32°21'N, 128°41'E	98-110 fms	1928/8/7	E.Pagh	Store Nordiske
From "Store Nordiske"								
1 ZMUC ANT-000676	ZMUC150723-63		<i>Dendronephthya</i> spp.	Japan, 32-59°15'N, 129-23°50"E	21 fms	1933/8/6	Store Nordiske	2 species, Klipper, Donated: Store Nordiske
2 ZMUC ANT-000677	ZMUC150723-64		<i>Dendronephthya</i> sp.	Japan, 32-42°54'N, 129-44°24'E	31 fms	1931/8/31	Store Nordiske	Klipper, sand, Donated: Store Nordiske; Bottom Temperature: 27° C
3 ZMUC ANT-000678	ZMUC150723-65		<i>Nephthea</i> sp.	Japan, 35-00N, 130-05E	67 fms	1934/6/23	Store Nordiske	2 species, Donated: Store Nordiske; Bottom Temperature: 13.5° C, same bottle with ZMUC-ANT-00000679
4 ZMUC ANT-000675	ZMUC150723-62		<i>Nidalia</i> sp.	Japan, 32-26N, 128-37'E, st.11	136 fms	1933/6/25	Store Nordiske	Sand, klipper, Bottom Temperature: 13° C
5 ZMUC ANT-000732	ZMUC150723-33		<i>Melithaea</i> sp.	32-26°N, 128-37'E	136 fms		Store Nordiske	Sand, klipper, Bottom temperature: 13° C; Journal: 1933/6/2
6 ZMUC ANT-000626	ZMUC120604-19		NOT <i>Melithaea</i> sp.	32°59'15"N, 129°23'50" E	21 fms	1933/8/6	Store Nordiske	Klipper, Donated. Store Nordiske, 6/10/1934
7 ZMUC ANT-000733	ZMUC150723-34		? <i>Echinogorgia</i> sp.	North West Pacific, 32-59°15'N, 129-23°50"E	21 fms	1933/8/6	Store Nordiske	Klipper, Don: Store Nordiske; Journal: 1934/10/06
8 ZMUC ANT-000679	ZMUC150723-66		<i>Euplexaura</i> sp.	Japan, 35°00'N, 130°05'E	67 fms	1934/6/23	Store Nordiske	Donated: Store Nordiske; Bottom Temperature: 13.5° C, same bottle with ZMUC-ANT-00000678
9 ZMUC ANT-000760	ZMUC120604-06a		<i>Calyptrorhiza</i> sp.	Japan, Bonin Is. (Ogasawara)	750 fms	1957/5/14	Store Nordiske	sandy, same bottle with ZMUC-ANT-000761
10 ZMUC ANT-000761	ZMUC120604-06b		<i>Narella</i> sp.	Japan, Bonin Is. (Ogasawara)	750 fms	1957/5/14	Store Nordiske	sandy, same bottle with ZMUC-ANT-000760
11 ZMUC ANT-000762	ZMUC120604-07		<i>Parastenella</i> sp.	Japan, Bonin Is. (Ogasawara)	750 fms	1957/5/14	Store Nordiske	sandy
12 ZMUC ANT-000731	ZMUC150723-32		<i>Chrysogorgia</i> sp.	32-21°N, 128-39'E	120-200 fms	1933/3/4	Store Nordiske	Klipper, Bottom temperature: 13° C
13 ZMUC ANT-000734	ZMUC150723-35		Undet. Gorgonacea	32-42°54'N, 129-44°20"E	31 fms	1931/8/31	Store Nordiske	Bottom Sand; klipper, Don: Store Nordiske; Journal: 1932/4/20
14 ZMUC ANT-000735	ZMUC150723-36		Undet. Gorgonacea	32-42°54'N, 129-44°20"E	31 fms	1931/8/31	Store Nordiske	Bottom Sand; klipper, Don: Store Nordiske
15 ZMUC ANT-000736	ZMUC150723-37		Undet. Gorgonacea	32-42°54'N, 129-44°20"E	31 fms	1931/8/31	Store Nordiske	Bottom Sand; klipper, Don: Store Nordiske; Bottom temperature: 27° C
16 ZMUC ANT-000796	ZMUC150723-90		Undet. Pennatulacea	36-02°57'N, 129-47°33"E	159-382 fms	1932/1/15	Store Nordiske	Bottom Temperature: 0°C; Journal: 1932/04/2
1	*ZMUC		<i>Dendronephthya mucronata</i> (Pütler, 1900)	North West Pacific			Store Nordiske Telegraf	Spongoides mucronata

New number From Dr. Th. Mortensen, 1914	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
1 -	(UJZM)		(<i>Prinnoc pacifica</i> Kinoshita, 1907)	(Japan, Sagami Bay, Okinose)	(800m)	(1914)	(Dr. Th. Mortensen)	Two polyps from specimens collected in Aurivillius, 1931 (subsampled from ZMUC?), not in UPSZTY database. See Aurivillius 1931 page 295. The polyps described there presumably comes from this specimen??"
1	ZMUC-ANT-000494	ZMUC-120430-27	<i>Prinnoc pacifica</i> Kinoshita, 1907	Japan, Sagami Sea, Okinose	400fms	1914/7	Kuma (Dr. Th. Mortensen)	"bought from Kuma"
2	ZMUC ANT-000791	ZMUC150723-38	<i>Bathyalcyon robustum</i> Versluys, 1906	North West Pacific			Dr. Th. Mortensen	Bathyalcyon robustum
3	ZMUC ANT-000751	ZMUC150723-67	<i>Dendronephthya</i> sp.	Japan, Sagami-Bay, Okinose	1907/5		Dr. Th. Mortensen	Large Bottle
4	ZMUC ANT-000792	ZMUC150723-39	<i>Pseudocladochorus hicksomi</i> Versluys, 1907	Japan, Sagami-Bay, off Suno-Saki	802	1914/6/12	Dr. Th. Mortensen	
5	ZMUC ANT-000723	ZMUC150723-46	<i>Telesto</i> sp.	Japan, Sagami-Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard Bottom
6	ZMUC ANT-000724	ZMUC150723-47	<i>Telesto</i> sp.	Japan, Sagami-Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard Bottom
7	ZMUC ANT-000725	ZMUC150723-48	<i>Telesto</i> sp.	North West Pacific, 33-51°N, 130-3°E	26 fms	1914/5/18	Dr. Th. Mortensen	Gear: swabs
8	ZMUC ANT-000646	ZMUC-120604-40	<i>Melithaea corymbosa</i>	Off Nagasaki, 32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
9	ZMUC ANT-000588	ZMUC-120430-42	<i>Melithaea corymbosa</i>	Japan, Sagami Bay	80-120 fms	1914/6/6-19	Dr. Th. Mortensen	
10	ZMUC ANT-000650	ZMUC-120604-76	<i>Melithaea corymbosa</i>	Japan, Sagami Bay, Off Misaki	ca.250 fms	1914/6/10	Dr. Th. Mortensen	Sandy mud, Gears:swabs
11	ZMUC ANT-000590	ZMUC-120430-44	<i>Melithaea corymbosa</i>	Japan, Sagami Sea, Okinose	100 fms	1914/6/15	Dr. Th. Mortensen	Hard bottom, Gears:swabs
12	ZMUC ANT-000654	ZMUC-120604-66	<i>Melithaea corymbosa</i>	Japan, Sagami Sea, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom, Gears:swabs
13	ZMUC ANT-000461	ZMUC-120604-73	<i>Melithaea corymbosa</i>	Japan, Sagami Sea, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom, Gears:swabs
14	ZMUC ANT-000587	ZMUC-120430-40	<i>Melithaea corymbosa</i>	Japan, Sagami Sea, Okinose	100 fms	1914/6/26	Dr. Th. Mortensen	Hard bottom, Gears:swabs
15	ZMUC ANT-000659	ZMUC-120604-71	<i>Melithaea corymbosa</i>	Japan, Sagami Sea, Okinose	200 fms	1914/7/1	Dr. Th. Mortensen	Hard Bottom
16	ZMUC ANT-000591	ZMUC-120430-41	<i>Melithaea japonica</i>	Japan, Sagami Bay, Misaki	1-2 fms	1914/6/24	Dr. Th. Mortensen	
17	ZMUC ANT-000771	ZMUC150723-45(1)	<i>Melithaea japonica</i>	Japan, Sagami-Bay, Misaki	2 fms	1914/6/1	Dr. Th. Mortensen	dry
18	ZMUC ANT-000772	ZMUC150723-45(2)	<i>Melithaea japonica</i>	Japan, Sagami-Bay, Misaki	2 fms	1914/6/1	Dr. Th. Mortensen	dry
19	ZMUC ANT-000773	ZMUC150723-45(3)	<i>Melithaea japonica</i>	Japan, Sagami-Bay, Misaki	2 fms	1914/6/1	Dr. Th. Mortensen	dry
20	ZMUC ANT-000774	ZMUC150723-45(4)	<i>Melithaea japonica</i>	Japan, Sagami-Bay, Misaki	2 fms	1914/6/1	Dr. Th. Mortensen	dry
21	ZMUC ANT-000595	ZMUC-120430-45	<i>Melithaea modesta</i>	Japan, Sagami Sea, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears:swabs
22	ZMUC ANT-000649	ZMUC-120604-75	<i>Melithaea modesta</i>	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears:swabs
23	ZMUC ANT-000657	ZMUC-120604-69	<i>Melithaea sagamiensis</i> Matsumoto & Ohvegen, 2015	Japan, Sagami Sea, Okinose	200 fms	1914/7/1	Dr. Th. Mortensen	Hard Bottom
24	ZMUC ANT-000660	ZMUC-120604-72	<i>Melithaea sagamiensis</i> Matsumoto & Ohvegen, 2015	Japan, Sagami Sea, Okinose	200 fms	1914/7/1	Dr. Th. Mortensen	Hard Bottom
25	ZMUC ANT-000594	ZMUC-120430-46	<i>Melithaea tenuis</i>	Japan, Sagami Bay	80-120 fms	1914/6/6-19	Dr. Th. Mortensen	
26	ZMUC ANT-000651	ZMUC-120604-77	<i>Melithaea tenuis</i>	Japan, Sagami Bay, Off Misaki	ca.250 fms	1914/6/10	Dr. Th. Mortensen	Sandy mud, Gears:swabs
27	ZMUC ANT-000661	ZMUC-120604-23	<i>Melithaea tenuis</i>	Japan, Sagami Sea	300 fms	1914/6/29	Dr. Th. Mortensen	Hard bottom, Gears:swabs
28	ZMUC ANT-000656	ZMUC-120604-68	<i>Melithaea tenuis</i>	Biological Station	200 fms	1914/6/30	Dr. Th. Mortensen	Sand, Gears:swabs
29	ZMUC ANT-000593	ZMUC-120430-38	<i>Melithaea tenuis</i>	Japan, Sagami Bay	400 fms	1914/7/2	Dr. Th. Mortensen	Gear: swabs.
30	ZMUC ANT-000592	ZMUC-120430-37	<i>Melithaea undulata</i>	Japan, Sagami Sea	500 fms	1914/6/25	Dr. Th. Mortensen	Gear: swabs.
31	ZMUC ANT-000652	ZMUC-120604-62	<i>Melithaea</i> sp.	Japan, 34°20'N, 130°10' E	60 fms	1914/5/18	Dr. Th. Mortensen	Dredging No.11, Sand Shell,
32	ZMUC ANT-000589	ZMUC-120430-43	<i>Melithaea</i> sp.	Japan, Sagami Sea, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears:swabs
33	ZMUC ANT-000648	ZMUC-120604-74	<i>Melithaea</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears:swabs
34	ZMUC ANT-000750	ZMUC150723-05	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	2 fms	1914/6	Dr. Th. Mortensen	same bottle with a large colony of Hydrozoa
35	ZMUC ANT-000739	ZMUC150723-29 (1)	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	7 fms	1914/6/25	Dr. Th. Mortensen	

List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012-2015).

New number	Old number	Status	Species	Locality (En)	Depth	V/m/d	Collector	Remark
37	ZMUC ANT-000743	ZMUC150723-29 (5)	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	7 fms	1914/6/25	Dr. Th. Mortensen	
38	ZMUC ANT-000740	ZMUC150723-29 (2)	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	7 fms	1914/6/25	Dr. Th. Mortensen	
39	ZMUC ANT-000741	ZMUC150723-29 (3)	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	7 fms	1914/6/25	Dr. Th. Mortensen	
40	ZMUC ANT-000742	ZMUC150723-29 (4)	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	7 fms	1914/6/25	Dr. Th. Mortensen	
41	ZMUC ANT-000738	ZMUC150723-29 (6)	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	7 fms	1914/6/25	Dr. Th. Mortensen	
42	ZMUC ANT-000744	ZMUC150723-30	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	2 fms	1914/5/27	Dr. Th. Mortensen	
43	ZMUC ANT-000745	ZMUC150723-31	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	2 fms	1914/4/27	Dr. Th. Mortensen	
44	ZMUC ANT-000767	ZMUC150723-41	<i>Melithaea</i> sp.	Japan, Sagami-Bay, Misaki	2 fms	1914/6/1	Dr. Th. Mortensen	
44	ZMUC ANT-000607	ZMUC 150723-28(1)	<i>Melithaea</i> sp.	North West Pacific			Dr. Th. Mortensen	with AKMI20604-64(ZMUC ANT-000606), 1 NOT octocoralla, dry
45	ZMUC ANT-000608	ZMUC 150723-28(2)	<i>Melithaea</i> sp.	North West Pacific			Dr. Th. Mortensen	with AKMI20604-64(ZMUC ANT-000606), 1 NOT octocoralla, dry
46	ZMUC ANT-000609	ZMUC 150723-28(3)	<i>Melithaea</i> sp.	North West Pacific			Dr. Th. Mortensen	with AKMI20604-64(ZMUC ANT-000606), 1 NOT octocoralla, dry
47	ZMUC ANT-000610	ZMUC 150723-28 4	<i>Melithaea</i> sp.	North West Pacific			Dr. Th. Mortensen	with AKMI20604-64(ZMUC ANT-000606), 1 NOT octocoralla, dry
48	ZMUC ANT-000638	ZMUC-120604-32	<i>Parisia</i> sp. (<i>minor</i> ?)	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
49	ZMUC ANT-000639	ZMUC-120604-33	<i>Parisia</i> sp. (<i>fruticosa</i> ?)	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
50	ZMUC ANT-000620	ZMUC-120604-31	<i>Acalyngorgia</i> sp.	Nagasaki	26 fms	1914	Dr. Th. Mortensen	Hyataru Maru
51	ZMUC ANT-000665	ZMUC-120604-61	<i>Acalyngorgia</i> sp.	Japan, 33°51'N, 130°3' E	100 fms	1914/5/18	Dr. Th. Mortensen	Dredging No.13, Sand, S Kallumid
52	ZMUC ANT-000621	ZMUC-120604-51	<i>Acalyngorgia</i> sp.	Japan, Sagami Sea, Okinose	60 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom
53	ZMUC ANT-000666	ZMUC-120604-60	<i>Acanthogorgia</i> sp.	Japan, 34°20'N, 130°10' E	80-120 fms	1914/5/18	Dr. Th. Mortensen	Dredging No.11, Sand Shell,
54	ZMUC ANT-000667	ZMUC-120604-57	<i>Acanthogorgia</i> sp.	Japan, Sagami Bay	80-120 fms	1914/6/6-19	Dr. Th. Mortensen	
55	ZMUC ANT-000623	ZMUC-120604-49	<i>Acanthogorgia</i> sp.	Japan, Sagami Bay, off the Misaki Biological Station	60 fms	1914/6/10	Dr. Th. Mortensen	Sand, Gear:swabs
56	ZMUC ANT-000668	ZMUC-120604-54	<i>Acanthogorgia</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom
57	ZMUC ANT-000669	ZMUC-120604-55	<i>Acanthogorgia</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
58	ZMUC ANT-000670	ZMUC-120604-56	<i>Acanthogorgia</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
59	ZMUC ANT-000622	ZMUC-120604-52	<i>Acanthogorgia</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom
60	ZMUC ANT-000624	ZMUC-120604-53	<i>Acanthogorgia</i> sp.	Japan, Sagami Sea, Okinose	200 fms	1914/7/1	Dr. Th. Mortensen	Hard bottom
61	ZMUC ANT-000629	ZMUC-120604-50	<i>Acanthogorgia bocki</i>	Japan, Sagami Sea, Okinose	100 fms	1914/6/26	Dr. Th. Mortensen	Hard bottom, Gear:swabs
62	ZMUC ANT-000645	ZMUC-120604-39	<i>Bebrucea</i> sp.	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
63	ZMUC ANT-000631	ZMUC-120604-27	<i>Discogorgia</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
64	ZMUC ANT-000630	ZMUC-120604-25	? <i>Discogorgia</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
65	ZMUC ANT-000632	ZMUC-120604-46	? <i>Echinomuricea</i>	Japan, Sagami Bay, Okinose	ca.50	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
66	ZMUC ANT-000763	ZMUC-120604-20	? <i>Eunicella pendula</i>	Japan, Sagami Sea, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
67	ZMUC ANT-000628	ZMUC-120604-26	? <i>Eunicella pendula</i>	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
68	ZMUC ANT-000627	ZMUC-120604-29	? <i>Eunicella pendula</i>	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gear:swabs
69	ZMUC ANT-000747	ZMUC-150723-02	? <i>Eunicella</i>	Japan, Sagami Bay, Misaki	40 fms	1914/7	Alan Owston (Dr. Th. Mortensen)	present in the glass, with the following info: "21/3/03 Kanada Gulf, S. Bay" (???)
70	ZMUC ANT-000643	ZMUC-120604-37	<i>Euplexaura</i> sp.	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
71	ZMUC ANT-000640	ZMUC-120604-34	? <i>Keroeides</i>	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
72	ZMUC ANT-000653	ZMUC-120604-65	<i>Keroeides</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom

New number	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
73	ZMUC ANT-000641	ZMUC-120604-35	<i>Paracis</i> sp.	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
74	ZMUC ANT-000642	ZMUC-120604-36	<i>Paracis</i> sp.	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
75	ZMUC ANT-000633	ZMUC-120604-47	<i>Paracis</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears: swabs
76	ZMUC ANT-000616	ZMUC-120604-16	<i>Filigela mitsukurii</i>	32°15'N, 128°17' E.	75 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Hyateri maru, swabs
77	ZMUC ANT-000611	ZMUC-120604-09	<i>Filigela mitsukurii</i>	33°41'N, 128°50' E.	75 fms	1914/5/17	Dr. Th. Mortensen	Sand, Trawl
78	ZMUC ANT-000664	ZMUC-120604-59	<i>Filigela mitsukurii</i>	Japan, 34°20'N, 130°10' E	60 fms	1914/5/18	Dr. Th. Mortensen	Dredging No.11, Sand Shell
79	ZMUC ANT-000655	ZMUC-120604-67	<i>Filigela mitsukurii</i>	Japan, Sagami Bay, Off Misaki Biological Station	200 fms	1914/6/30	Dr. Th. Mortensen	Sand, Gears: swabs
80	ZMUC ANT-000644	ZMUC-120604-38	? <i>Villogorgia</i> sp.	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: Shveber, Hyateri-Maru
81	ZMUC ANT-000632	ZMUC-120604-28	? <i>Villogorgia</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears: swabs
82	ZMUC ANT-000765	ZMUC150723-27	Gorgonidae	Japan, Sagami Bay, 16 m v.l.s.f. Misaki	200 fms	1914/5/13	Dr. Th. Mortensen	Bottom: Sand, Gear: trawl
83	ZMUC ANT-000766	ZMUC-120430-28	<i>Arthroorgia ijimai</i>	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
84	ZMUC ANT-000597	ZMUC-120430-35	<i>Callogorgia</i> sp.	Japan, Sagami Sea	500 fms	1914/6/25	Dr. Th. Mortensen	Gear: swabs
85	ZMUC ANT-000619	ZMUC-120604-12	<i>Callogorgia</i> or <i>Fanella</i>	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
86	ZMUC ANT-000618	ZMUC-120604-11	<i>Paracalyptophora kerberti</i>	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
87	ZMUC ANT-000625	ZMUC-120604-48	<i>Parastenella</i> sp.	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
88	ZMUC ANT-000606	ZMUC-120604-64	<i>Parastenella</i> sp.	Japan, Sagami Bay	1914		Dr. Th. Mortensen	bought from Kuma
89	ZMUC ANT-000759	ZMUC-120604-04	<i>Plumarella acuminata</i>	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma, Korean pa
90	ZMUC ANT-000663	ZMUC-120604-58	? <i>Plumarella (Dicholaphis)</i>	Japan, Sagami Sea	400 fms	1914/6/1-7	Dr. Th. Mortensen	Stener
91	ZMUC ANT-000647	ZMUC-120604-41	<i>Plumarella</i> sp.	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: swabs, Hyateri-Maru
92	ZMUC ANT-000602	ZMUC-120430-29	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears: swabs
93	ZMUC ANT-000603	ZMUC-120430-30	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears: swabs
94	ZMUC ANT-000626	ZMUC-120604-50	<i>Plumarella</i> sp.	Japan, Sagami Bay, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears: swabs
95	ZMUC ANT-000612	ZMUC-120604-10a	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/11	Dr. Th. Mortensen	Hard Bottom
96	#	ZMUC-120604-10b	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/11	Dr. Th. Mortensen	Hard Bottom
97	ZMUC ANT-000600	ZMUC-120430-34	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/15	Dr. Th. Mortensen	Hard bottom, Gears: swabs
98	ZMUC ANT-000634	ZMUC-120604-22	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom, Gears: swabs
99	ZMUC ANT-000601	ZMUC-120430-33	<i>Plumarella</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/26	Dr. Th. Mortensen	Hard bottom, Gears: swabs
100	ZMUC ANT-000757	ZMUC-120604-02	<i>Thouarella</i> sp.	Japan, Sagami Bay, Enoshima		1903/3	A. Custon (Dr. Th. Mortensen)	bought from Alan Ouston, 1914/07.
101	ZMUC ANT-000635	ZMUC-120604-21	<i>Thouarella</i> sp.	Japan, Sagami Sea, Okinose	200 fms	1914/7/1	Dr. Th. Mortensen	Col. 1903/03, Yenosima=Enoshima
102	ZMUC ANT-000758	ZMUC-120604-03	<i>Chrysoorgia</i> sp.	Japan, Sagami Sea, Okinose	600 fms	1907	A. Owston (Dr. Th. Mortensen)	Hard bottom, Gears: swabs
103	ZMUC ANT-000658	ZMUC-120604-70	<i>Chrysoorgia</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard bottom, Gears: swabs
104	ZMUC ANT-000599	ZMUC-120430-32	<i>Chrysoorgia</i> sp.	Japan, Sagami Sea, Okinose	100 fms	1914/6/25	Kuma (Dr. Th. Mortensen)	bought from Kuma
105	ZMUC ANT-000756	ZMUC-120604-01	<i>Chrysoorgia</i> sp.	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
106	ZMUC ANT-000613	ZMUC-120604-14a	<i>Chrysoorgia</i> sp.	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
107	ZMUC ANT-000614	ZMUC-120604-14b	<i>Chrysoorgia</i> sp.	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma
108	ZMUC ANT-000615	ZMUC-120604-15	<i>Radicipes ? verilli</i>	32°15'N, 128°17' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, "Hyateri-Maru" Gears: swabs

List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012-2015).

New number	Old number	Status	Species	Locality (En)	Depth	V/m/d	Collector	Remark
109 ZMUC ANT-000598	ZMUC-120430-36		? <i>Radicipes</i>	Japan, Sagami Sea, Okinose	100 fms	1914/6/26	Dr. Th. Mortensen	Hard bottom, Gears:swabs
110 ZMUC ANT-000617	ZMUC-120604-13		<i>Keratosis</i>	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma, (Dr. Th. Mortensen)	bought from Kuma
111 ZMUC ANT-000636	ZMUC-120604-18		Isidiidae	32°15'N, 128°12' E.	90 fms	1914/5/15	Dr. Th. Mortensen	Hard Bottom, Gear: swabs, Hyateri-Maru
112 ZMUC ANT-000746	ZMUC-150723-01		Isidiidae	Japan, Sagami Sea, Okinose	400 fms	1914/7	Kuma (Dr. Th. Mortensen)	bought from Kuma, 3 colonies.
113 ZMUC ANT-000637	ZMUC-120604-17		Isidiidae	Japan, Sagami-Bay			? Dr. Th.	Large Bottle, wet
114 ZMUC ANT-000752	ZMUC150723-68		<i>Pennatulula murrayi</i> Kolliker, 1880 <i>Cavernularia obesa</i> Valenotermes in Milne Edwards & Haime, 1850	North West Pacific			Dr. Th. Mortensen	Cavernularia obesa
115	ZMUC		Undet. Alcyonacea	Japan, Sagami-Bay, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	Hard Bottom, Gear: skrab, 2 species
116 ZMUC ANT-000726	ZMUC150723-49		Undet. Alcyonacea	Japan, Sagami-Bay, Okinose	100 fms	1914/6/23	Dr. Th. Mortensen	same bottle with ZMUC-ANT-000729-730, wet
117 ZMUC ANT-000727	ZMUC150723-50		Undet. Alcyonacea	North West Pacific			Dr. Th. Mortensen	same bottle with ZMUC-ANT-000728-730, wet
118 ZMUC ANT-000728	ZMUC150723-51		Undet. Alcyonacea	North West Pacific			Dr. Th. Mortensen	same bottle with ZMUC-ANT-000728-730, wet
119 ZMUC ANT-000729	ZMUC150723-52		Undet. Alcyonacea	North West Pacific			Dr. Th. Mortensen	same bottle with ZMUC-ANT-000728-730, wet
120 ZMUC ANT-000730	ZMUC150723-53		Undet. Alcyonacea	North West Pacific			Dr. Th. Mortensen	same bottle with ZMUC-ANT-000728-729, wet
121 ZMUC ANT-000800	ZMUC150723-93		Undet. Pennatulacea	Japan, Sagami-Bay, Okinose	100 fms	1914/7	Kuma (Dr. Th. Mortensen)	Bought from Kuma, wet
122 ZMUC ANT-000801	ZMUC150723-94		Undet. Pennatulacea	Japan, Sagami-Bay, outside North West Pacific	70 fms	1914/7/10	Dr. Th. Mortensen	Gear: skrab, wet
123 ZMUC ANT-000802	ZMUC150723-95		Undet. Pennatulacea	32-11°17'N, 128-11°E	110 fms	1914/5/14	Dr. Th. Mortensen	Bottom Sand, Gear: trawl
124 ZMUC ANT-000803	ZMUC150723-96		Undet. Pennatulacea	North West Pacific, 32-15°N, 128-12°E	70 fms	1914/5/15	Dr. Th. Mortensen	Hard bottom, Gear: skrab, wet, 3 species
125 ZMUC ANT-000804	ZMUC150723-97		Undet. Pennatulacea	Japan, Sagami-Bay, Misaki		1914/7	Alan Owston (Dr. Th. Mortensen)	Bought from Alan Owsten, wet
126 ZMUC ANT-000805	ZMUC150723-98		Undet. Pennatulacea	Japan, Sagami-Bay, Misaki		1914/4/28	Dr. Th. Mortensen	coast
127 ZMUC ANT-000806	ZMUC150723-99		Undet. Pennatulacea	Japan, North West Pacific, 33-41°N, 128-58°E	75 fms	1914/5/17	Dr. Th. Mortensen	Bottom Sand, Gear: trawl, wet
128 ZMUC ANT-000807	ZMUC150723-100		Undet. Pennatulacea	Japan, North West Pacific, 32-20°N, 130-10°E	60 fms	1914/5/18	Dr. Th. Mortensen	Bottom Sand, Gear: skrab, wet (8 specimen)
1	*ZMUC		Antipatharia	Japan, Sagami Sea, Okinose	60 fms	1914/6/11	Dr. Th. Mortensen	Hard bottom, Gears:swabs
2	*ZMUC		<i>Dendronephthya padavensis</i> Henderson, 1909 <i>Dendronephthya rigida</i> Studer, 1888	North West Pacific			Dr. Th. Mortensen	Roxasia padavensis Roxasia rigida
From J. Jordan			Pteroides sp.	Japan, Nagasaki			James Jordan	Journal: 1911/06/29, Store Nordiske?
ZMUC ANT-000798	ZMUC150723-92							
From K. Derjugin			<i>Primnoa pacifica</i> Kinoshita, 1907	Japan Sea, 42°16.2'N, 131°03'E.	730-780m	1931/10/7	K. Derjugin	det. by Broch?, 1934
1 ZMUC-ANT-000495	ZMUC-120604-05							
From Doflein			<i>Scytalium splendens</i> (Thomson & Henderson, 1906)	Japan, Sagami-Bay, Haidashi	100 fms	1904	Doflein	ZSM (Zoologische Staatssammlung München, Germany)
1 ZMUC ANT-000793	ZMUC150723-40 (ZSM)							
From Salmiin			Holotype <i>Halysaetrum abies</i> Kolliker, 1872 <i>Pteroeides brevibradiatum</i> Kolliker, 1869	Japan NWP			Salmiin	2 specimen
1 ZMUC-ANT-000164								
1 ZMUC								

New number	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
2	ZMUC-ANT-000146	Lect- Neotype	<i>Pteroides chinense</i> Källiker 1872	NWP, Japan			Salmén	
From Dr. Sixten Bock's Japan-Expedition:								
1	UPSZTY116693	Type	<i>Uciligorgia boninensis</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), E.N. of Chichijima	115fms	1914/8/15	Dr. Sixten Bock	formol. (E.N.E. of Chichijima, in Aurivillius, 1931)
2	UPSZTY2175	Type	<i>Uciligorgia boninensis</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), E.N. of Chichijima		1914/8/15	Dr. Sixten Bock	formol
3	UPSZMC 6235		<i>Melithaea flabellifera</i> Kükenthal	Japan, Sagami Bay, Misaki Biolog. Station		(1914/6)- >1914/4	Dr. Sixten Bock	*collection date in the database (1914/4) and Aurivillius, 1931 (1914/6) are different pers.comm. Ms.Majlon, UPSZTY, 2014
4	in exhibition room		<i>Subergorgia</i> sp.	Japan, Bonin Islands (Ogasawara), E.N. of Chichijima		1914/8/15	Dr. Sixten Bock	in exhibition room
5	UPSZTY2148	Type	<i>Acalyfgorgia wireni</i> Aurivillius, 1931	Japan, Kyushu 130°3' E., 33°51' N.	26fms	1914/5/18	Dr. Sixten Bock	bottom skalsand. (Kiuschiu, 34°20'N., 130°20' E., 100m in Aurivillius, 1931)
6	UPSZTY2167	Paratype	<i>Acanthogorgia boninensis</i> Aurivillius, 1931 (Ogasawara), E. of Channel (north of Chichijima)	Japan, Bonin Islands (Ogasawara), E. of Channel (north of Chichijima)	70fms	1914/8/1	Dr. Sixten Bock	formol. =spec.2 of Acanthogorgia boninensis mihi. var. Aurivillius, 1931?.
7	UPSZTY2167	Holotype	<i>Acanthogorgia boninensis</i> Aurivillius, 1931 (Ogasawara), E. of Chichijima	Japan, Bonin Islands (Ogasawara), E. of Chichijima	100m	1914/8/1	Dr. Sixten Bock	Depth 20 fms and locality E of Channel between Chichijima and Hahajima in Aurivillius, 1931. UPSZMC database: Cotype to the Museum of Natural History, Gothenburg. april 1933.
8	UPSZTY2167	Cotype	<i>Acanthogorgia boninensis</i> Aurivillius, 1931 (Ogasawara), Higashijima E. 2 miles	Japan, Bonin Islands (Ogasawara), Higashijima E. 2 miles	90fms	1914/8/7	Dr. Sixten Bock	formol. Bottom: Sand, juv. =Acanthogorgia boninensis mihi. var. Aurivillius, 1931? UPSZMC database: Cotype to the Museum of Natural History, Gothenburg, april 1933
9	UPSZTY2168	Type (Spec.1?)	<i>Acanthogorgia doffeini</i> var. <i>spinosa</i> Aurivillius, 1931	Japan, Kyushu, Goto Islands, 5 128°12'E., Coral Bank	90fms	1914/5/15	Dr. Sixten Bock	formol. (160m in Aurivillius, 1931)
10	UPSZTY2168	(Spec.2?)	<i>Acanthogorgia doffeini</i> var. <i>spinosa</i> Aurivillius, 1931	Japan, Kyushu, Goto Islands, 5 128°12'E., Coral Bank	90fms	1914/5/15	Dr. Sixten Bock	formol
11	UPSZTY2179	Type	<i>Acanthogorgia gotoensis</i> Aurivillius, 1931	Japan, Kyushu, Goto Islands, 5 128°12'E., Coral Bank	90fms	1914/5/15	Dr. Sixten Bock	formol
12	UPSZTY2145	Type (Spec.b)	<i>Acanthogorgia hedlundii</i> Aurivillius, 1931	Japan, Kyushu, Kagoshima-Goto Islands eller Okinoshima		1914/5/13- 5/15, 5/18	Dr. Sixten Bock	formol. (1914/5/18, 34°20' N., 130°20' E. in Aurivillius, 1931)
13	UPSZTY2147	Type	<i>Anthogorgia bocki</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), E. of Chichijima	90fms	1914/8/1	Dr. Sixten Bock	Uppsatt 1932, Upsala Mus.
14	UPSZTY2181	Type	<i>Bebruce bocki</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), E. of Chichijima	120m	1914/8/1	Dr. Sixten Bock	formol. (depth 100m in Aurivillius, 1931)
15	UPSZTY2166	Type	<i>Bebruce boninensis</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), E.N.E. of Anojima	150m	1914/8/15	Dr. Sixten Bock	formol. (at 100 fathoms in Aurivillius, 1931). Anojima-Anjima or Anejima
16	in exhibition room		<i>Euplexaura</i> sp.	Japan, Sagami Bay	400- 500m	1914	Dr. Sixten Bock	Upsala Mus. in exhibition room

List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012-2015).

New number	Old number	Status	Species	Locality (En)	Depth	v/m/d	Collector	Remark
17 UPSZTY2165	UUZM68	Type	<i>Filigella boninensis</i> (Aurivillius, 1931)	Japan, Bonin Islands (Ogasawara), E. of Chichijima	100m	1914/8/1	Dr-Sixten Bock	<i>Filigella boninensis</i> , fomal, Aurivillius, 1931, Upsala Mus
18 UPSZMC 62382	UUZM	(spec.10-)	<i>Filigella mitsukurii</i> (Kinoshita)	Japan, Kyushu, Okinoshima	200m	1914/5/18	Dr-Sixten Bock	UPSZMC database, in exhibition room., GBIF2596677 (Catalog no.565)
19 UPSZTY2171	UUZM74	Type	<i>Villogorgia cristata</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), East of Chichijima	120m	1914/8/1	Dr-Sixten Bock	fomal, (120-180m in Aurivillius, 1931, Upsala Mus.)
20 UPSZTY2161	UUZM64	Type	<i>Villogorgia japonica</i> Aurivillius, 1931	Japan, Kyushu, Goto Islands, 5 miles off Pallas Rock, 128°12'E, Coral Bank	90fms	1914/5/15	Dr-Sixten Bock	fomal, (Lat. 32°15'N, Dredge, 160m, Ups.Mus.In Aurivillius, 1931)
21 UPSZTY2150	UUZM53	Type	<i>Villogorgia teretiflora</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara) E. of Chichijima, Japan, Kyushu, Goto Islands,	(90fms)	1914/8/1	Dr-Sixten Bock	(90 fathoms in Aurivillius, 1931, Ups. Mus.)
22 UPSZTY2151	UUZM54	Type	<i>Callogorgia cristata</i> Aurivillius, 1931	Pallas Rock, Japan, Kyushu, Goto Islands, 32°15' N., 128°12'E., Coral Bank	160m	1914/5/15	Dr-Sixten Bock	in Aurivillius, 1931, 4 fragments.
23 UPSZTY2155	UUZM58	Type	<i>Narella japonensis</i> (Aurivillius, 1931)	Japan, Sagami Bay, Okinose	400fms	1914.6.30	Dr-Sixten Bock	fomal
24 UPSZTY2162	UUZM65	Type	<i>Plumarella dofeini</i> var. <i>boninensis</i> Aurivillius, 1931	Japan, Bonin Islands (Ogasawara), E. of the Channel	70fms	1914/8/1	Dr-Sixten Bock	probably paratype of <i>Thouarella hilgendorffii</i> forma <i>plumatis</i> Aurivillius, 1931, in exhibition room.
25 UPSZTY 2176	UUZM79?		<i>Thouarella hilgendorffii</i> Th.Stud.	Japan, Sagami Bay, Okinose	600m	1914/6/26	Dr-Sixten Bock	one colony in Aurivillius, 1931, not in UPSZMC database. In exhibition room. Cotype to the Museum of Natural History, Gothenburg, april 1933 in UPSZMC database, pers.comm. Majlon, Uppsala.
26 in exhibition room	UUZM		<i>Chrysogorgia excavata</i> Kuk.	Japan, Sagami Bay, South of Misaki	400m	1914	Dr-Sixten Bock	
27 UPSZTY2170	UUZM73	Type (Ex.)	<i>Chrysogorgia sphaerica</i> Aurivillius, 1931	Japan, Sagami Bay, Okinose	400fms	1914/7/8	Dr-Sixten Bock	fomal, depth 160m in Aurivillius, 1931
28 UPSZTY2177	UUZM80	Type (Ex.)	<i>Acanella microscopulata</i> Aurivillius, 1931	Japan, Kyushu, Goto Islands, 5 miles off Pallas Rock, 128°12'E East of Coral bank	90fms	1914/5/15	Dr-Sixten Bock	Upsala Mus. in exhibition room
29 in exhibition room	UUZM		<i>Keratois</i> sp.	Japan, Sagami, Misaki		1905/3/28	Dr-Sixten Bock	Sandy beach, large ebb???. In exhibition room.
30 in exhibition room	UUZM		<i>Cavernularia habereri</i> Moroff	Japan, Sagami, Misaki		1914/6/22	Dr-Sixten Bock	
31 in exhibition room	UUZM		<i>Soytallium martensi</i> Kölliker, 1870	Japan, Kyushu, Goto Islands	200-300m	1914/5/14	Dr-Sixten Bock	Upsala Mus. in exhibition room
1 in exhibition room	UUZM		<i>Antipathes densa</i>	Japan, Kyushu, Goto Islands		1914/5/15	Dr-Sixten Bock	Antipatharia. Upsala Mus. In exhibition room.
2 in exhibition room	UUZM		<i>Bathypathes</i>	Japan, Kyushu, Goto Islands	200-300m	1914/5/15	Dr-Sixten Bock	Antipatharia. Upsala Mus.
1 *UPSZMC 62357	UUZM115		<i>Melithaea corymbosa</i> Kukenthal	Japan, Sagami Bay, Misaki Biol. Station		1914/6/14	Dr-Sixten Bock	in Aurivillius, 1931, UPSZMC database, GBIF2596670 (Catalog no.372)
2 *GBIF2596673	(UUZM)		<i>Melithaea modesta</i> Kukenthal	Japan, Sagami Bay, Misaki		>1914/6/23	Dr-Sixten Bock	GBIF2596673 (Catalog no.370)
3 *GBIF2596671	(UUZM)		<i>Melithaea modesta</i> Kukenthal	Japan, Sagami Bay, Misaki		1914/6/26	Dr-Sixten Bock	GBIF2596671 (Catalog no.370)
4 *GBIF2596672	(UUZM)		<i>Melithaea modesta</i> Kukenthal	Japan, Sagami Bay, Misaki		1914/6/26	Dr-Sixten Bock	GBIF2596672 (Catalog no.371)
5 *GBIF2596674	(UUZM)		<i>Melithaea modesta</i> Kukenthal	Japan, Sagami Bay, Misaki		1914/6/26	Dr-Sixten Bock	GBIF2596674 (Catalog no.373)
6 *UPSZMC 62355	(UUZM)		<i>Melithaea modesta</i> var. <i>abyssicola</i> Kukenthal	Japan, Sagami Bay, Okinose	(400-500m)	1914/6/26-27	Dr-Sixten Bock	in Aurivillius, 1931, UPSZMC database
7 *GBIF2596678	(UUZM)		<i>Melithaea</i> sp. aff. <i>habereri</i> Kukenthal	Japan, Sagami Bay, Misaki, Okinose	(ca.700m)	1914-1914/6/26	Dr-Sixten Bock	in Aurivillius, 1931, date 1914/6/26 in GBIF2596678 (Catalog no.377)
8 *UPSZMC 62352	(UUZM)		<i>Melithaea</i> sp. aff. <i>tenuis</i> Kukenthal	Japan, Sagami Bay, Misaki, Biological Station	(200m)	1914/7/1	Dr-Sixten Bock	in Aurivillius, 1931, UPSZMC database, GBIF2596677 (Catalog no.376)

New number	Old number	Status	Species	Locality (En)	Depth	y/m/d	Collector	Remark
9 *UPSZMC 62353	(UJZM)		<i>Melithaea tenuis</i> Kükenthal	Japan, Sagami Bay, Okinose	300- 400m	1914/6/26	Dr.Sixten Bock	UPSZMC database, GBIF2596675 (Catalog no.374)
10 *UPSZMC 62351	(UJZM)		<i>Melithaea tenuis</i> Kükenthal	Japan, Sagami Bay, Okinose	(400fms)	1914/6/30	Dr.Sixten Bock	depth 400 fms in Aurivillius, 1931, 600m in UPSZMC database
11 *GBIF2642183			<i>Melithaea</i> sp.	Japan, Sagami Bay, Misaki		1914/6/25	Dr.Sixten Bock	GBIF2596676 (Catalog no.375)
12 *GBIF2642185			<i>Melithaea</i> sp.	Japan, Sagami Bay, Misaki		1914/6/25	Dr.Sixten Bock	GBIF2642183 (Catalog no.653)
13 *GBIF2642186			<i>Melithaea</i> sp.	Japan, Sagami Bay, Misaki		1914/6/25	Dr.Sixten Bock	GBIF2642185 (Catalog no.655)
14 *UPSZMC 62377	(UJZM)		<i>Parisia australis</i> Wright & Studer	Japan, Bonin Islands	100m	1914/8/1	Dr.Sixten Bock	GBIF2642186 (Catalog no.656) in Aurivillius, 1931, UPSZMC database, GBIF2651373 (Catalog no.522)
15 *UPSZMC 62378	(UJZM)		<i>Parisia minor</i> Wright & Studer	Japan, Kyushu, Goto Islands, 6 miles off Pallas Rock, Coral bank	(160m)	1914/5/15	Dr.Sixten Bock	in Aurivillius, 1931, UPSZMC database, GBIF2651374 (Catalog no.523)
16 *UPSZMC 62379	(UJZM)		<i>Acanthoporgia gracillima</i> var. <i>lata</i> Kükenthal	Japan, Sagami Bay, Okinose	400fms	1914/6/26	Dr.Sixten Bock	in Aurivillius, 1931, UPSZMC database, GBIF2596681 (Catalog no.524)
17 *UPSZMC 62373	(UJZM)		<i>Kerooides koreni</i> Kinoshita	Japan, Kyushu, Goto Islands, 5 miles off Pallas Rock		1914/5/15	Dr.Sixten Bock	in Aurivillius, 1931, UPSZMC database, GBIF2634449 (Catalog no.525)
18 *UPSZMC 62385	(UJZM)		<i>Paracis</i> cf. <i>ijimai</i> Kinoshita	Japan, Sagami Bay, Okinose	(300fms)	1914/6/23	Dr.Sixten Bock	in Aurivillius, 1931, UPSZMC database, GBIF2650010 (Catalog no.526)
19 *UPSZMC 62383	UJZM		<i>Filigella mitsukurii</i> (Kinoshita)	Japan, Kyushu, Okinoshima	26 fms	1914/5/18	Dr.Sixten Bock	UPSZMC database, GBIF2626468 (Catalog no.566)
20 *GBIF2626469	(UJZM)	(spec.18)	<i>Filigella mitsukurii</i> (Kinoshita, 1909)	Japan, Sagami Bay, Misaki	(450m)	(1914- >1914/6/30	Dr.Sixten Bock	in Aurivillius, 1931, not in UPSZMC database, GBIF2626469 (Catalog no.567)
21 *UPSZMC 62384	(UJZM)	(spec.19)	<i>Filigella mitsukurii</i> (Kinoshita, 1909)	Japan, Sagami Bay, Okinose	(400fms)	>1914/6/30	Dr.Sixten Bock	in Aurivillius, 1931, in UPSZMC database, depth is 600m and date is 1914/6/30
22 *UPSZMC 62381			<i>Filigella mitsukurii</i> (Kinoshita, 1909)	Goto Islands, Okinoshima, 28 miles N and 1/2 mile E Shirase lighthouse.		1914/5/17	Dr.Sixten Bock	UPSZMC database, GBIF2626470 (Catalog no. 568)
23 *UPSZMC 62342	(UJZM)		<i>Acanthoprimnoea cristata</i> (Kükenthal & Gorzawsky, 1908)	Japan, Sagami Sea, off Misaki	140fms	(1914)-> 1914/6/6	Dr.Sixten Bock	in Aurivillius, 1931, collected data is 6/6 1914, in UPSZTY database, GBIF2655350 (Catalog no.735)
24 *UPSZMC 62341	(UJZM)		<i>Calyptrophora japonica</i> Gray	Japan, Kyushu, Goto Islands, off Pallas Rock, 32°15' N, 128°12' E, Coral Bank	160m	1914/5/15	Dr.Sixten Bock	in Aurivillius, 1931, in UPSZTY database, GBIF2606943 (Catalog no.479)
25 *UPSZMC62343	(UJZM)		<i>Parastenella doederleini</i> (Wright & Studer)	Japan, Sagami, Okinose	(300fms)	(1914)	Dr.Sixten Bock	5 specimen in Aurivillius, 1931, in UPSZMC database
26 *UPSZMC 79955	(UJZM)		<i>Plumarella adhaerans</i> Nutting	Japan, Sagami, Okinose	(100fms) ->400- 600 m	(1914/6/23)	Dr.Sixten Bock	depth data are different between in Aurivillius, 1931(100 fms) and in UPSZMC database (400-600m), Pers.comm. Mallon, UPSZTY, 2014
27 *UPSZMC62364	(UJZM)		<i>Chrysogorgia</i> sp. aff. <i>fexilis</i> (Wright & Studer)	Japan		1914	Dr.Sixten Bock	in Aurivillius, 1931, in UPSZTY database, GBIF2610929 (Catalog no.522)
28 *GBIF2626473			<i>Funiculina quadrangularis</i> (Pallas, 1766)	Japan, Kyushu, Goto Islands		1914/5/15	Dr.Sixten Bock	GBIF2626473 (Catalog no.571)
29 *GBIF2652679			<i>Pennatula fimbriata</i> Herklots, 1858	Japan, Kyushu, S. Nagasaki		1914/5/15	Dr.Sixten Bock	GBIF2652679 (Catalog no.703)
30 *GBIF2652680			<i>Pennatula fimbriata</i> Herklots, 1858	Japan, Kyushu, Goto Islands		1914/1/17	Dr.Sixten Bock	GBIF2652680 (Catalog no.704)
31 *GBIF2652682			<i>Pennatula fimbriata</i> Herklots, 1858	Japan, Kyushu, Goto Islands		1914/5/17	Dr.Sixten Bock	GBIF2652682 (Catalog no.706)
32 *GBIF2652681			<i>Pennatula fimbriata</i> Herklots, 1858	Japan, Kyushu, Okinoshima		1914/5/18	Dr.Sixten Bock	GBIF2652681 (Catalog no.705)
33 *GBIF2652683			<i>Pennatula murrayi</i> Kolliker, 1880	Japan, Kyushu, Goto Islands		1914/5/17	Dr.Sixten Bock	GBIF2652683 (Catalog no.707)
34 *GBIF2652684			<i>Pennatula murrayi</i> Kolliker, 1880	Japan, Bonin Islands (Ogasawara), Chichijima Islands		1914/8/1	Dr.Sixten Bock	GBIF2652684 (Catalog no.708)

List of Japanese and North West Pacific octocoral collection in Uppsala University, Sweden (surveyed in 2012) and University of Copenhagen, Denmark (surveyed in 2012-2015).

New number	Old number	Status	Species	Locality (En)	Depth	V/m/d	Collector	Remark
1 -	(UJZM)		(<i>Corallium</i> sp. aff. <i>elatius</i> Kishinouye)	(Japan, Kyushu, Goto Islands, 5 miles off Pallas Rock, 32°15' N., 128°12' E., Coral Bank)	(160m)	(1914/5/15)	(Dr-Sixten Bock)	in Aurivillius, 1931. not in UPSZMC database
2 -	(UJZM)		(<i>Parisys minor</i> Wright & Studer)	(Japan, Bonin Islands, E. of Chichijima)	(80fms)	(1914/8/1)	(Dr-Sixten Bock)	in Aurivillius, 1931. not in UPSZTY database
3 -	(UJZM)		(<i>Acalyogorgia inermis</i> (Hedlund, 1890))	(Japan, Kyushu, off Oronoshima, 33°51' N., 130°3' E.)	(45-50m)	(1914/5/18)	(Dr-Sixten Bock)	in Aurivillius, 1931. not in UPSZMC database, folmol
4 -	(UJZM)		(<i>Acalyogorgia wireni</i> Aurivillius, 1931)	(Japan, Kyushu, 34°20' N., 130°20' E.)	(100m)	(1914/5/18)	(Dr-Sixten Bock)	in Aurivillius, 1931. not in UPSZMC database, folmol
5 -	(UJZM)		(<i>Acanthogorgia</i> sp. ?aff. <i>gracillima</i> Kukent)	(Japan, Sagami Bay, Okinose)	(400fms)	(1914/6/30)	(Dr-Sixten Bock)	in Aurivillius, 1931
6 -	(UJZM)		Paratype (<i>Villogorgia cristata</i> Aurivillius, 1931)	(Japan, Bonin Islands (Ogasawara), 2 miles off Higashijima)	(160m)	(1914/8/7)	(Dr-Sixten Bock)	Bottom: Sand and shells, in Aurivillius, 1931. not in UPSZMC database
7 -	(UJZM)	Type	(<i>Villogorgia cristata</i> var. <i>papillata</i> Aurivillius, 1931)	(Japan, Bonin Islands, N.W. of Port Lloyd)	(70fms)	(1914/7/31)	(Dr-Sixten Bock)	Bottom: sand. in Aurivillius, 1931. not in UPSZMC database
8 -	(UJZM)	Paratype	(<i>Thouarella hilgendorfi</i> forma <i>plumatalis</i> Aurivillius, 1931)	(Japan, Kyushu, Goto Islands)	(100fms)	(1914/5/15)	(Dr-Sixten Bock)	in Aurivillius, 1931. not in UPSZTY database
9 -	(UJZM)	(spec.2-9)	(<i>Filigella mitsukurii</i> (Kinoshita, 1909))	(Japan, Kyushu, Goto Islands, 5 miles off Pallas Rock, 32°15' N., 128°12' E., Coral Bank)	(160m)	(1914/5/15)	(Dr-Sixten Bock)	in Aurivillius, 1931. not in UPSZMC database
10 -	(UJZM)	(Ex.2)	(<i>Chrysoyorgia sphaerica</i> Aurivillius, 1931)	(Japan, Sagami, Okinose)	(100fms)	(1914/6/26)	(Dr-Sixten Bock)	in Aurivillius, 1931. folmol. Not in UPSZTY database
11 -	(UJZM)	(Ex.2)	(<i>Acaneia microspiculata</i> Aurivillius, 1931)	(Japan, Kagoshima, off Bonomisaki, 9-21 miles W. to S.)		(1914/5/13)	(Dr-Sixten Bock)	in Aurivillius, 1931. folmol. Not in UPSZTY database
12 -	(UJZM)	(Ex.3)	(<i>Acaneia microspiculata</i> Aurivillius, 1931)	(Japan, Goto Islands)		(1914/5/15)	(Dr-Sixten Bock)	in Aurivillius, 1931. folmol. Not in UPSZTY database
From T. Gislén								
1 in exhibition room	UJZM		<i>Elytherobia rubra</i> (Brundin, 1896)	Japan, Sagami Bay, Misaki	0.5 m	1930/5/30	T. Gislén	GBIF2646086 (Catalog no.672)
2 in exhibition room	UJZM		<i>Cavernularia habereri</i> Moroff	Japan, Sagami Bay, Misaki		1930/10	T. Gislén	Tagen vid dagsljus(dagsyus???)
1 *GBIF2642187	UJZM		<i>Meilithaea</i> sp.	Japan, Sagami Bay, Misaki		1930/5/31	T. Gislén	GBIF2642187 (Catalog no.657)
2 *GBIF2642184	UJZM		<i>Meilithaea</i> sp.	Japan, Sagami Bay, Misaki		1930/6/25	T. Gislén	GBIF2642184 (Catalog no.654)
3 *GBIF2600659	UJZM		<i>Anthroplexaura dimorpha</i> Kükenthal, 1908	Japan, Sagami Bay, Moroso		1930/6/23	T. Gislén	GBIF2600659 (Catalog no.445)
From A. Stuxberg, Vega Expedition (No.1083)								
1 (Riksmuseum, No. 173)		(spec.1)	(<i>Filigella mitsukurii</i> (Kinoshita))	(30°40' N. 120°40' E.)	(70fms)	(1879/10/28)	(The Vega Expedition)	in Aurivillius, 1931. Riksmuseum
2 (Riksmuseum, No. 175)			(<i>Acanthogorgia vegae</i> Aurivillius, 1931)	(Japan, Yedo Bay)	(65fms)	(1879/10/11)	(The Vega Expedition)	in Aurivillius, 1931. Riksmuseum, Yedo Bay=Tokyo Bay

