

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).

Asako K. Matsumoto

【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】

八放サンゴ 深海サンゴ 冷水サンゴ 新種記載
大北電信会社 海底電信ケーブル

【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 August, 1871, Nagasaki (Japan) - Shanghai (China) submarine-telegraph started, and Nagasaki-Vladivostok (Russia) submarine-telegraph 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 University 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.

Acknowledgement

The following persons are thanked for hospitality during visits and information for the specimens: former Professor Dr. Ole Tendal, Ms. Majken Toettrup, Dr. Martin Vinther Sorensen, Ms. Laura Pavesi, Zoological Museum, University of Copenhagen, Denmark; Ms. Erica Sjolín, Dr. Hans Majlón, Museum of Evolution, Uppsala University, Sweden; Dr. Sattman, the Naturhistorisches Museum, Wien, Austria; The author thank Dr. Leen van Ofwegen, Naturalis Biodiversity Center, Leiden, the Netherlands for the identification and re-description of coral specimens with me and Dr. Bert Hoeksema, Naturalis Biodiversity Center for his kindness during my visits.

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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> Kuk & Gorz. | 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> (Ehrenberg, 1834) | East Asia, North West Pacific | | | Suenson | dry, Journal:1882 |
| 31 | ZMUC ANT-000770 | ZMUC150723-44 | <i>Callogorgia flabellum</i> (Ehrenberg, 1834) | East Asia, North West Pacific | | | Suenson | dry, Journal:1882 |
| 32 | ZMUC ANT-000748 | ZMUC150723-03 | <i>Plumarella longispina</i> Kinoshita, 1908 | 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 ?Hkettem 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 | |
| 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 | (Journal?) 1900/7/29? |
| 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°45'0"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>Leptolus</i> sp. | Tsugaru strait, Japan | | | Suenson | |
| 41 | ZMUC ANT-000799 | ZMUC150723-101 | <i>Pavonaria</i> sp. | Korea | | | Suenson | Journal: 1882 |
| 42 | ZMUC ANT-000754 | ZMUC150723-71 | <i>Pennatulula murrayi</i> Kolliker, 1880 | 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> Ulinomi, 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> Ulinomi, 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 |
| From Schönmäu ("Store Nordiske") | | | | | | | | |
| 1 | ZMUC ANT-000708 | ZMUC150723-12 | <i>Acanthogorgia</i> sp. | Japan, 33-9°N, 129-18°E | 40 fms | 1898/5/23 | Schönmäu | same bottle with ZMUC-ANT-000709 |
| 2 | ZMUC ANT-000709 | ZMUC150723-13 | Plexauridae | Japan, 33-9°N, 129-18°E | 40 fms | 1898/5/23 | Schönmäu | same bottle with ZMUC-ANT-000708 |
| 3 | ZMUC ANT-000710 | ZMUC150723-14 | <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 |
| 4 | ZMUC ANT-000711 | ZMUC150723-15 | <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 |
| 5 | ZMUC ANT-000712 | ZMUC150723-16 | <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 |

| 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 Sammlng. 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 Christensen (=?Kapt. H. Christensen, =?Christiansen, not A.F. Christensen, or T.A. Christensen)(?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. Christensen | 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. Christensen | 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 | Journal: 1926/1/12 |
| 6 | ZMUC ANT-000705 | ZMUC150723-09 | Ellisellidae | North West Pacific, 32-15°N, 128-20°E | 100 fms | 1926/4/17 | Kapt. Hans Christiansen | 18 dC, Styrm. Journal. 1957/5/1 |
| 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 | Journal: 1926/1/12 |
| 9 | ZMUC ANT-000753 | ZMUC150723-69 | <i>Virgularia gustaviana</i> (Herklots, 1863) | North West Pacific, 32-28°N, 119-40°E | | 1992/10/13 | Christiansen | date is too recent |
| 8 | ZMUC ANT-000686 | ZMUC150723-60 | Undet. Alcyonacea | Japan, 33-10°5'N, 129-18'7"E | | | Kapt. H. Christensen | 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>Echinomiricea peterseni</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 | 1932/04/2 | 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-120604-40 | <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. Ouston (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. Ouston (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 | | Isididae | 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 | | Isididae | Japan, Sagami Sea, Okinose | 400 fms | 1914/7 | Kuma (Dr. Th. Mortensen) | bought from Kuma, 3 colonies. |
| 113 ZMUC ANT-000637 | ZMUC-120604-17 | | Isididae | 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 Owston, 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>Halyscetrum abies</i> Kolliker, 1872 <i>Pteroides 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>Ucalgorgia 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>Ucalgorgia 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), Ups. Mus.) |
| 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. |
| 26 in exhibition room | UUZM | | <i>Chrysogorgia excavata</i> Kuk. | Japan, Sagami Bay, South of Misaki | 400m | 1914 | Dr-Sixten Bock | Majlon, Uppsala. |
| 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>Keratoisis</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 | Upsala Mus. in exhibition room |
| 31 in exhibition room | UUZM | | <i>Soytallium martensi</i> Kölliker, 1870 | Japan, Kyushu, Goto Islands | 200-300m | 1914/5/14 | Dr-Sixten Bock | Antipatharia. Upsala Mus. In exhibition room. |
| 1 in exhibition room | UUZM | | <i>Antipathes densa</i> | Japan, Kyushu, Goto Islands | 200-300m | 1914/5/15 | Dr-Sixten Bock | Antipatharia. Upsala Mus. |
| 2 in exhibition room | UUZM | | <i>Bathypathes</i> | Japan, Kyushu, Goto Islands | 200-300m | 1914/5/15 | Dr-Sixten Bock | in Aurivillius, 1931, UPSZMC database, GBIF2596670 (Catalog no.372) |
| 1 *UPSZMC 62357 | UUZM115 | | <i>Melithaea corymbosa</i> Kukenthal | Japan, Sagami Bay, Misaki Biol. Station | | (1914)->1914/6/14 | Dr-Sixten Bock | GBIF2596671 (Catalog no.370) |
| 2 *GBIF2596673 | (UUZM) | | <i>Melithaea modesta</i> Kukenthal | Japan, Sagami Bay, Misaki | | 1914/6/23 | Dr-Sixten Bock | GBIF2596672 (Catalog no.371) |
| 3 *GBIF2596671 | (UUZM) | | <i>Melithaea modesta</i> Kukenthal | Japan, Sagami Bay, Misaki | | 1914/6/26 | Dr-Sixten Bock | GBIF2596674 (Catalog no.373) |
| 4 *GBIF2596672 | (UUZM) | | <i>Melithaea modesta</i> Kukenthal | Japan, Sagami Bay, Misaki | | 1914/6/26 | Dr-Sixten Bock | in Aurivillius, 1931, UPSZMC database |
| 5 *GBIF2596674 | (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, date 1914/6/26 in GBIF2596678 (Catalog no.377) |
| 6 *UPSZMC 62355 | (UUZM) | | <i>Melithaea</i> sp. aff. <i>habererii</i> Kukenthal | Japan, Sagami Bay, Misaki, Okinose | (ca.700m) | (1914)->1914/6/26 | Dr-Sixten Bock | in Aurivillius, 1931, UPSZMC database, GBIF2596677 (Catalog no.376) |
| 7 *GBIF2596678 | (UUZM) | | <i>Melithaea</i> sp. aff. <i>tenuis</i> Kukenthal | Japan, Sagami Bay, Misaki, Biological Station | (200m) | 1914/7/1 | Dr-Sixten Bock | |
| 8 *UPSZMC 62352 | (UUZM) | | | | | | | |

| 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>Keroeides 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>Calyntrophora 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>flexilis</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>elatus</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>Acanelela 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>Acanelela 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 |

