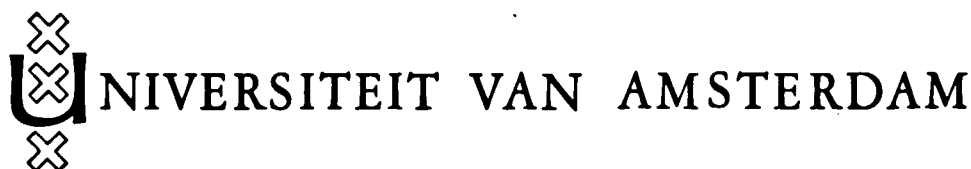


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CATALOGUE OF THE DUCHASSAING & MICHELOTTI (1864) COLLECTION OF WEST INDIAN SPONGES (PORIFERA)

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ABSTRACT

A list is provided in which extant and lost specimens of the Duchassaing and Michelotti collection of West Indian Sponges (published 1864) are discussed. The numerous types and other specimens are housed in two institutions, viz. the Museo e Istituto di Zoologia Sistemática dell'Università di Torino, Italy, and the Zoologisch Museum Amsterdam; fragments of the Torino specimens are kept in the British Museum (Natural History), London, the National Museum of Natural History, Washington, and the Muséum National d'Histoire Naturelle, Paris. Of all extant specimens and fragments the whereabouts, collection numbers, references to recent redescriptions and the identity in modern context are given. With a few exceptions, species and genera not represented by specimens any more are declared unrecognizable. Of the original 150 named species and varieties a total of 96 are still represented by fragments or specimens.

INTRODUCTION

Recently, attention has been drawn to the Duchassaing and Michelotti collection of West Indian Sponges (published 1864). These authors have been largely misinterpreted or ignored by later colleagues on account of their primitive descriptions and poor figures. Interest in this collection reappeared when De Laubenfels found

a considerable number of specimens in the Torino Museum in 1928; he deposited fragments of these specimens in the British Museum (Natural History). Hartman discovered another set of specimens in the Zoological Museum of Amsterdam, that had arrived there in a complicated way as part of a deal to get the Duchassaing & Michelotti manuscript published in the *Verhandelingen van de Hollandsche Maatschappij van We-*

tenschappen. Four D. & M. specimens were donated to the Genova Museum in 1955 (see Tortonese, 1962). Wiedenmayer (1977) traced the history of the collection and provided lists of specimens kept in the Zoological Museum of Amsterdam and the British Museum (Natural History). Unfortunately, these lists are not quite complete, and the Torino specimens are lacking from it. Rützler and Boury-Esnault both visited the Torino Museum and took fragments from the D. & M. specimens, which were deposited in the National Museum of Natural History and the Muséum National d'Histoire Naturelle respectively. Boury-Esnault donated slides made from the Haplosclerid specimens to the Geneva Museum; these are currently being studied by Desqueyroux. Photographic colour slides of the Torino specimens are now in existence in London, Amsterdam and Washington. The Amsterdam D. & M. specimens are currently being redescribed by Van Soest (cf. 1978, 1980, 1984).

The purpose of the present catalogue is to give a complete view of what is left and what is lost. Of the extant specimens (in Torino, Genova and Amsterdam) and fragments (in London, Washington, and Paris), we provide the whereabouts, status (lectotype, etc.), collection numbers, reference to redescrptions and illustrations, and published identities in modern context. In a few cases such identities have not been published, yet; we then provide suggestions based on the experience of Van Soest and Rützler, mostly. These suggestions will not be given further substance here, and they should be considered tentative.

Since Duchassaing & Michelotti did not indicate which of their specimens were to be the holotypes, etc., of their new species, all type designations are subsequent ones. These were made by De Laubenfels (1936, 1948), Hartman (1967), Wiedenmayer (1977), and Van Soest (1978, 1980): all remaining designations are done below. It is clear from the consistent correspondence between figured specimens and the Torino material, that the specimens in Amsterdam must be regarded as "duplicate" specimens. So, in general, if specimens exist in more than one collection, the Torino one is the lectotype (unless designation has been made

otherwise by one of the above mentioned authors). The USNM and MNHN fragments, having been taken from the Torino specimens recently, are thus normally schizolectotypes, unless there is more than one specimen of a species. The BMNH fragments could be traced in most cases to their original Torino specimens, because De Laubenfels gave drawings and measurements of the complete specimens on the wrappers of the BMNH fragments. In some cases, BMNH fragments have been designated lectotype (by previous authors), which were traceable to their originals. Although, this may seem contrary to the ICZN rules, in such cases the Torino original is considered the lectotype, with the BMNH fragment as schizolectotype.

Of the 150 named species and varieties of the Duchassaing & Michelotti collection (including 127 authored by D. & M. themselves, excluding *Agelas dispar* var. a), 54 are no longer represented by any specimens; of these 47 were D. & M. species. Of the remaining 96 taxa, specimens or fragments are still present in the collection of the musea of Torino (64 taxa), Amsterdam (ZMA) (52 taxa, 20 of which are not represented elsewhere), Washington (52 taxa), Paris (62 taxa), and London (71 taxa, 12 of which are not represented elsewhere). Together they include the lectotypes, paralectotypes, schizolectotypes, and schizoparalectotypes of 80 species of mostly common West Indian sponges.

EXPLANATION TO THE CATALOGUE ENTRIES

The order in which Duchassaing & Michelotti have listed their species is followed in this catalogue.

For each species the following items of information are given: name of the species, author(s), page reference, reference to illustration(s) where it (they) exist, a list of extant (if any) specimens and/or fragments.

The known data for the different specimens or fragments are listed as follows: its status (lectotype, paralectotype, schizolectotype, schizoparalectotype, or just plain specimen or fragment), its present location, its registration number, the presence or absence of the

original label, reference to its recent (published) identity (with the names of Wiedenmayer and Van Soest abbreviated to avoid their endless repetition in full), the type designation (only with lectotypes).

The order in which the different fragments and specimens are listed is as follows: lectotype, schizolectotype(s) (if there are more, the order is: USNM, MNHN, BMNH), paralectotype(s) (if there are more, the order is: Mus. Torino and its schizoparalectotypes, then ZMA and Genova), schizoparalectotype(s) (if there are more, the order is USNM, MNHN, BMNH).

THE DUCHASSAING & MICHELOTTI COLLECTION
OF SPONGES

EVENOR FUCIFORMIS D. & M., 1864: 29, pl. III, 1-2.

No extant type material.

Pl. III, 1 represents a drawing of *Spongia complanata* according to Duchassaing, 1870.

SPONGIA CAVERNOSA Lamarck, 1814; D. & M., 1864: 30, pl. III, 3.

No extant material.

SPONGIA BARBARA D. & M., 1864: 31.

Lectotype: Mus. Torino Por. 97, original label present, St. Thomas. Van S., 1978: 16, *Spongia barbara*, type designation, lectotype erroneously given as Mus. Torino Por 94.

Schizolectotype: USNM no. 31032.

Schizolectotype: MNHN.D.NBE. 1323.

Schizolectotype: BMNH 1928: 11: 12: 57. Wied., 1977: 254, *Spongia* sp. indet.; Van S., 1978: 16, do.

Paralectotype: ZMA POR. 2074, original label present, Viecques. Wied., 1977: 250, *Spongia barbara*; Van S., 1978: 16, do., redescription, pl. III, 1.

Comparison of the BMNH fragment with the lectotype established beyond doubt the schizolectotype status of the fragment.

SPONGIA COELOSIA D. & M., 1864: 31 (as *Spongia corlosia* but corrected in errata, p. 122).

No extant type material.

SPONGIA CEREBRIFORMIS D. & M., 1864: 32, pl. III, 5-6.

Lectotype: Mus. Torino Por. 91, original label present, St. Thomas, figured pl. III, 5. Van S., 1978: 43, *Fasciospongia cerebriformis*, type designation.

Schizolectotype: USNM no. 31034.

Schizolectotype: MNHN.D.NBE. 1325.

Schizolectotype: BMNH 1928: 11: 12: 58. Wied., 1977: 254, *Fasciospongia* spec.; Van S., 1978: 43, *Fasciospongia cerebriformis*.

Schizoparalectotype: BMNH 1928: 11: 12: 59. Wied., 1977: 254, *Fasciospongia* spec.; Van S., 1978: 43, *Fasciospongia cerebriformis*.

Paralectotype: ZMA POR. 2075, original label present, St. Thomas. Wied., 1977: 56, 251, *Spongia sterea sterea* De Laubenfels & Storr, 1964; Van S., 1978: 43, *Fasciospongia cerebriformis*, redescription, pl. VIII, 3.

There is only one specimen left in the Torino museum (no. 91, *teste* also Parenti, c.s., 1976), contrary to Van S.'s (1978) belief that there were two (he was misled by two photographic slides of the same specimen made by Rützler, and the existence of two BMNH fragments). From the size data given by De Laubenfels on the BMNH fragment wrappers, it is concluded that originally there were two Torino specimens.

SPONGIA GOSSYPINA D. & M., 1864: 32, pl. III, 4. Lectotype: Mus. Torino Por. 108, without original label, Viecques, figured pl. III, 4. Van S., 1978: 21, *Hippospongia gossypina*, type designation, here corrected.

Schizolectotype: USNM no. 31037.

Schizolectotype: MNHN, D.NBE. 1330.

Schizolectotype: BMNH 1928: 11: 12: 70. Wied., 1977: 254, *Hippospongia gossypina*; Van S., 1978: 21, do.

Paralectotype: ZMA POR. 2087, original label present, St. Thomas. Wied., 1977: 250, *Hippospongia gossypina*; Van S., 1978: 21, do., redescription, pl. IV, 4.

The BMNH fragment was designated lectotype by De Laubenfels (1948), but it is obviously a fragment of the Torino specimen.

SPONGIA UTILIS D. & M., 1864: 33.

No extant type material.

SPONGIA MEANDRIFORMIS D. & M., 1864: 33.

Lectotype: Mus. Torino Por. 105, without original label, St. Thomas. Van S., 1978: 17, *Spongia barbara* D. & M., 1864, type designation.

Schizolectotype: USNM no. 31041.

Schizolectotype: MNHN.D.NBE. 1334.

Schizolectotype: BMNH 1928: 11: 12: 77. Wied., 1977: 254, *Hippospongia gossypina*; Van S., 1978: 17, do.

Paralectotype: ZMA POR. 2096, original label present, Viecques.

Wied., 1977: 250, *Spongia barbara* Van S., 1978: 16, do., redescription, pl. III, 3.

SPONGIA TUBULIFERA Lamarck, 1814; D. & M., 1864: 34, pl. IV, 1-3.

Specimen: Mus. Torino Por. 112. original label present, St. Thomas, figured pl. IV, 1. Van S., 1978: 10, *Spongia tubulifera*.

Fragment: MNHN.D.NBE. 1337.

Fragment: BMNH 1928: 11: 12: 84. Wied., 1977: 55, 254, *Spongia tubulifera*.

Specimen: ZMA POR. 2257, original label present, St. Thomas. Wied., 1977: 250, *Spongia tubulifera*; Van S., 1978: 12, *Spongia pertusa* Hyatt, 1877, redescription, pl. II, 1.

SPONGIA TUBULIFERA var. *OSCULATA* D. & M., 1864: 34.

No extant type material.

SPONGIA TUBULIFERA var. *POROSA* D. & M., 1864: 34.

No extant type material.

SPONGIA LAPIDESCENS D. & M., 1864: 34.

Lectotype: Mus. Torino Por. 96, type designa-

tion herein, without original label, Vieques. Van S., 1978: 20, *Hippospongia gossypina* D. & M., 1864).

Schizolectotype: USNM no. 31039.

Schizolectotype: MNHN.D.NBE. 1332.

Schizolectotype: BMNH 1928: 11: 12: 74. Wied., 1977: 254, *Spongia* spec.; Van S., 1978: 20, *Hippospongia gossypina*.

SPONGIA VERMICULATA D. & M., 1864: 35.

Lectotype: ZMA POR. 2256, original label present, St. Thomas. Wied., 1977: 250, *Spongia barbara* D. & M., 1864; Van S., 1978: 16, do., type designation, redescription pl. III, 2.

SPONGIA LACINULOSA Lamarck, 1814; D. & M., 1864: 35, pl. IV, 4.

Specimen: Mus. Torino Por. 80, without original label, St. Thomas.

Fragment: USNM no. 31038.

Fragment: MNHN.D.NBE 1331.

Fragment: BMNH 1928: 11: 12: 73. Wied., 1977: 55, 254, *Spongia tubulifera* Lamarck, 1814; Van S., 1978: 12, *Spongia pertusa* Hyatt, 1877. The Torino specimen does not correspond to the description and drawing of D. & M.

SPONGIA FENESTRATA D. & M., 1864: 36, pl. III, 7.

Lectotype: Mus. Torino Por. 102, type designation herein, original label present, St. Thomas, figured pl. III, 7.

Schizolectotype: USNM no. 31036.

Schizolectotype: MNHN.D.NBE. 1328.

Schizolectotype: BMNH 1928: 11: 12: 66. Wied., 1977: 69, 254, *Smenospongia aurea* (Hyatt, 1875); Van S., 1978: 70, do.

SPONGIA DISCUS D. & M., 1864: 37.

Lectotype: ZMA POR. 2077, original label present, Vieques. Wied., 1977: 250, *Spongia obliqua* D. & M., 1864; Van S., 1978: 9, do., type designation, redescription, pl. I, 2-3.

SPONGIA SUBCIRCULARIS Duchassaing, 1850; D. & M., 1864: 37, pl. IV, 6 (as *Spongia circularis* but corrected in errata).

No extant (type-) material.

SPONGIA COMPLANATA Duchassaing, 1850; D. & M., 1864: 37, pl. III, 1 (cf. Duchassaing, 1870).

Fragment: BMNH 1928: 11: 12: 63, St. Thomas. Wied., 1977: 86, 254, *Haliclona* (*Amphimedon*) *complanata*; Van S., 1980: 31, *Amphimedon complanata*.

The Torino specimen has apparently been lost since 1928. It remains undecided, whether Duchassaing's (1850) material was included in the D. & M. (1864) material; if so, the BMNH fragment is the only extant type material. A designation as neotype would end the uncertainty.

SPONGIA FUSCA D. & M., 1864: 38.

Lectotype: ZMA POR. 2086, original label present, St. Thomas. Wied., 1977: 86, 250, *Haliclona* (*Amphimedon*) *complanata* (Duchassaing, 1850), type designation; Van S., 1980: 31, *Amphimedon complanata*, redescription, pl. IV, 4.

SPONGIA OBLIQUA D. & M., 1864: 38, pl. IV, 5.

Lectotype: ZMA POR. 2099, original label present, Vieques. Wied., 1977: 55, 250, *Spongia oblique*, type designation; Van S., 1978: 8,

do., redescription, pl. I, 1.

Paralectotype: Mus. Torino Por. 107, original label present, St. Thomas, Van S., 1978: 8, *Spongia obliqua*.

Schizoparalectotype: USNM no. 31042.

Schizoparalectotype: MNHN.D.NBE. 1335.

Schizoparalectotype: BMNH 1928: 11: 12: 80. Wied., 1977: 55, 254, *Spongia obliqua*.

SPONGIA MUSICALIS D. & M., 1864: 39, pl. VI, 2 (as *Spongia musicalis* but corrected in the errata).

Lectotype: ZMA POR. 2097, original label present, St. Thomas. Wied., 1977: 250, *Coscinoderma* spec. indet.; Van S., 1978: 29, ?*Coscinoderma musicalis*, type designation, redescription, pl. V, 3.

SPONGIA MANUS D. & M., 1864: 39, pl. V, 1-2, IB (authorship erroneously attributed to De Blainville).

Lectotype: Mus. Torino Por. 113, original label present, St. Martin, figured pl. V, 1. Van S., 1980: 31, *Amphimedon complanata*, type designation.

Schizolectotype: MNHN.D.NBE. 1333.

Schizolectotype: BMNH 1928: 11: 12: 78. Wied., 1977: 86, 254, *Haliclona* (*Amphimedon complanata*); Van S., 1980: 31., *Amphimedon complanata*.

Paralectotype: ZMA POR. 2095, original label present, St. Martin. Wied., 1977: 86, 250, *Haliclona* (*Amphimedon*) *complanata*; Van S., 1980: 31, *Amphimedon complanata*, redescription, pl. V. 1.

SPONGIA MARQUEZII D. & M., 1864: 40, pl. XX, 1, IIA.

Lectotype: Mus. Torino Por. 86, original label present, Guadeloupe, figured pl. XX, 1. Wied., 1977: 155, *Teichaxinella marquezii*, type designation.

Schizolectotype: USNM no. 31040.

Schizolectotype: BMNH 1928: 11: 12: 79. Wied., 1977: 155, 254, *Teichaxinella marquezii*.

SPONGIA CLAVAHERCULIS D. & M., 1864: 40, pl. V, 3 (as *Spongia clavahercules* but corrected in errata).

Lectotype: Mus. Torino Por. 92, specimen of about 20 cm long, type designation herein, original label present, Vieques, figured pl. V, 3.

Schizolectotype: USNM no. 31035.

Schizolectotype: BMNH 1928: 11: 12: 62. Wied., 1977: 254, *Spinoseella vaginalis* fo. *armigera* D. & M., 1864.

Paralectotype: Mus. Torino Por. 92, specimen of about 25 cm long.

Schizoparalectotype: BMNH 1928: 11: 12: 60. Wied., 1977: 254, *Spinoseella vaginalis* fo. *armigera*.

Paralectotype: Mus. Torino Por. 92, specimen of about 15 cm long.

Schizoparalectotype: BMNH 1928: 11: 12: 61. Wied., 1977: 254, *Spinoseella vaginalis* fo. *armigera*.

Schizoparalectotype: MNH.D.NBE. 1326 (it is unknown from which Torino specimen this fragment was taken).

The three Torino specimens are kept together with only one label and one registration number. The BMNH fragments could be matched by using De Laubenfels' measurements given on the wrappers. According to the wrappers, two BMNH

fragments (61 and 62) were from St. Thomas (which corresponds to D. & M.'s text), the other (no. 60) from Vieques (which locality is not given in the text).

Material in ZMA labelled as *Spongia clavaherculis* corresponds to *Spirastrella coccinea* (cf. Wiedenmayer, 1977: 253), and quite probably represents the only extant complete type specimen of that species.

SPONGIA RUBENS Pallas, 1766; D. & M., 1864: 41, pl. X, 1.

Specimen: Mus. Torino Por. 106, without original label, figured pl. X, 1.

Fragment: MNHN.D.NBE. 1336.

Fragment: BMNH 1928: 11: 12: 68. Wied., 1977: 82, 254, *Haliclona (Amphimedon) compressa* D. & M., 1864).

Specimen: ZMA POR 2254, original label present, St. Thomas. Wied., 1977: 250, *Haliclona (Amphimedon) compressa*; Van S., 1980: 27, *Amphimedon compressa*, redescription, pl. III, 4.

SPONGIA ISIDIS D. & M., 1864: 41, pl. VII, 2.

No extant type material.

SPONGIA BARTHOLOMEI D. & M., 1864: 42, pl. VI, 3-4.

No extant type material.

SPONGIA HAAGENSENII D. & M., 1864: 42, pl. VII, 3.

No extant type material.

SPONGIA DUMETOSA D. & M., 1864: 43, pl. V, 4.

No extant type material. This is probably an alga (cf. Duchassaing, 1870).

SPONGIA NAPIFORMIS Duchassaing, 1850; D. & M., 1864: 43, pl. VI, 1.

No extant (type-) material.

SPONGIA GUADELUPENSIS D. & M., 1864: 43, pl. VII, 1. (as *Spongia gadulpensis* but corrected in errata).

No extant type material.

SPONGIA KREBBRESII D. & M., 1864: 44, pl. VI, 5.

No extant type material.

TUBA SANCTAECRUCIS D. & M., 1864: 46.

Lectotype (fragment): BMNH 1928: 11: 12: 113, St. Croix, type designation herein. Wied., 1977: 252, *Spinoseella longissima* (D. & M., 1864).

De Laubenfels' sketch on the wrapper of this fragment matches the description of D. & M.. The Torino fragment has apparently been lost since 1928.

TUBA SORORIA D. & M., 1864: 46, pl. VIII, 1.

Lectotype: Mus. Torino Por. 126, without original label, Vieques. Van S., 1980: 56, *Callyspongia vaginalis* (Lamarck, 1816), type designation.

Schizolectotype: MNHN.D.NBE 1083.

Schizolectotype: BMNH 1928: 11: 12: 109. Wied., 1977: 102, 254, *Spinoseella vaginalis* fo. *vaginalis*; Van S., 1980: 56, *Callyspongia vaginalis*.

Paralectotype: Mus. Torino Por. 118, original label present, St. Thomas. figured pl. VIII, 1. Van S., 1980: 56, *Callyspongia vaginalis*.

Schizoparalectotype: USNM no. 31063.

Schizoparalectotype: MNHN.D.NBE. 1072.

Schizoparalectotype: BMNH 1928: 11: 12: 108. Wied., 1977: 102, 254, *Spinoseella vaginalis* fo. *vaginalis*; Van S., 1980: 56, *Callyspongia vaginalis*.

Paralectotype: ZMA POR. 2415, original label present, St. Thomas. Wied., 1977: 102, 250, *Spinoseella vaginalis* fo. *vaginalis*; Van S., 1980: 56, *Callyspongia vaginalis*, redescription, pl. IX, 4.

TUBA CONICA D. & M., 1864: 47.

No extant type material.

TUBA LINEATA D. & M., 1864: 47 (as *Tuba lineata* but corrected in errata).

Lectotype: Mus. Torino Por. 115, type designation herein, original label present, St. Thomas. Schizolectotype: MNHN.D.NBE. 1070.

Schizolectotype: BMNH 1928: 11: 12: 91. Wied., 1977: 254, *Spinoseella* cf. *villosa* (Pallas, 1766).

Paralectotype: Mus. Torino Por. 129, without original label, St. Thomas.

Schizoparalectotype: MNHN.D.NBE. 1345.

Schizoparalectotype: BMNH 1928: 11: 12: 92. Wied., 1977: 254, *Spinoseella* cf. *villosa*.

This species name is included in the synonymy of *Callyspongia vaginalis* (Lamarck, 1816) by Van S., 1980: 56.

TUBA LINEATA var. *SIMPLEX* D. & M., 1864: 47.

No extant type material

TUBA MEGASTOMA D. & M., 1864: 48.

Lectotype: ZMA POR. 2412, original label present, St. Thomas. Wied., 1977: 250, *Spinoseella vaginalis* fo. *vaginalis* (Lamarck, 1816); Van S., 1980: 56, *Callyspongia vaginalis*, type designation, redescription, pl. IX, 2.

Paralectotype: Mus. Torino Por. 122, without original label, St. Thomas. Van S., 1980: 56, *Callyspongia vaginalis*.

Schizoparalectotype: USNM no. 31061.

Schizoparalectotype: MNHN.D.NBE. 1076.

Schizoparalectotype: BMNH 1928: 11: 12: 104. Wied., 1977: 254, *Spinoseella* cf. *villosa* (Pallas, 1766).

TUBA BURSARIA (Lamarck, 1814); D. & M., 1864: 48 (as *Tuba bussaria* but corrected in errata).

Fragment: BMNH 1928: 11: 12: 96, St. Martin. Wied., 1977: 254, *Spinoseella villosa* Pallas, 1766).

Specimen: ZMA POR 2411, original label present, St. Martin. Wied., 1977: 250, *Spinoseella villosa*; Van S., 1980: 56, *Callyspongia vaginalis* (Lamarck, 1816), pl. X, 1.

D. & M. did not give any description of this material. The Torino specimen has apparently been lost since 1928.

TUBA ARMIGERA D. & M., 1864: 48, pl. VIII, 3 (as *Tuba armigora*, but corrected in errata).

Lectotype: Mus. Torino Por. 75, original label present, St. Thomas, figured as part of pl. VIII, 3. Van S., 1980: 60, *Callyspongia vaginalis* fo. *armigera*. type designation.

Schizolectotype: USNM no. 31050.

Schizolectotype: MNHN.D.NBE. 1064.

Schizolectotype: BMNH 1928: 11: 12: 93. Wied., 1977: 104, 254, *Spinoseella vaginalis* fo. *armigera*; Van S., 1980: 60, *Callyspongia vaginalis* fo.

armigera.

Schizolectotype: BMNH 1928: 11: 12: 94. Identities given by Wied. (1977) and van S. (1980) same as with previous fragment.

Paralectotype: ZMA POR 2407, original label present, St. Thomas. Wied., 1977: 104, 250, *Spinosella vaginalis* fo. *armigera*; Van S., 1980: 60, *Callyspongia vaginalis* fo. *armigera*, redescription, pl. X, 2.

The two BMNH fragments cannot be matched with the single Torino specimen, but there is no evidence that a second Torino specimen was ever in existence.

TUBA DIGITALIS (Lamarck, 1814); D. & M., 1864: 49, pl. VIII, 2.

Specimen: Mus. Torino Por. 116, original label present, St. Thomas, figured pl. VIII, 2.

Fragment: USNM no. 31052.

Fragment: MNHN.D.NBE. 1075

Fragment BMNH 1928: 11: 12: 97. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis*.

Fragment: BMNH 1928: 11: 12: 98. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis*. (Fragment cannot be correlated with the Torino specimen).

Specimen: ZMA POR. 2408, without original label, St. Thomas. Wied., 1977: 97, 250, *Niphates digitalis* fo. *digitalis* Van S., 1980: 37, do., redescription, pl. VI, 2.

The Torino Museum holds a specimen, Por. 111, labeled "*Spongia digitalis* Lam.", without original label, St. Thomas; fragments of it are in Paris (MNHN.D.NBE. 1327) and London (BMNH 1928: 11: 12: 65).

TUBA DIGITALIS var. *VILLOSA* D. & M., 1864: 49.

Lectotype: Mus. Torino Por. 114, type designation herein, original label present, St. Thomas.

Schizolectotype: USNM no. 31053.

Schizolectotype: MNHN.D.NBE. 1069.

Paralectotype: Mus. Torino Por. 119, without original label, Antille.

Schizoparalectotype: USNM no. 31054.

Schizoparalectotype: MNHN.D.NBE. 1073.

Schizoparalectotype: BMNH 1928: 11: 12: 100, St. Martin. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis*.

Paralectotype: Mus. Torino Por. 123, without original label, Guadeloupe.

Schizoparalectotype: USNM no. 31055.

Schizoparalectotype: MNHN.D.NBE. 1077.

Schizoparalectotype: BMNH 1928: 11: 12: 99. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis*.

Paralectotype: Mus. Torino Por. 125, without original label, Vieques.

Schizoparalectotype: USNM no. 31056.

Schizoparalectotype: MNHN.D.NBE. 1079.

Paralectotype: Mus. Torino Por. 127, without original label, St. Thomas.

Schizoparalectotype: USNM no. 31057.

Schizoparalectotype: MNHN.D.NBE. 1081.

Schizoparalectotype: BMNH 1928: 11: 12: 101. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis*.

Schizoparalectotype: BMNH 1928: 11: 12: 102, Vieques. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis*. (Fragment cannot be correlated to any of the Torino specimens although it could very well be from Por. 125 in view of the matching localities).

Schizoparalectotype: BMNH 1928: 11: 12: 103. Wied., 1977: 97, 254, *Niphates digitalis* fo.

digitalis. (Fragment cannot be matched to any of the Torino specimens, although by elimination it might be from the lectotype).

TUBA INCERTA D. & M., 1864: 49.

Lectotype: Mus. Torino Por. 128, type designation herein, without original label, St. Thomas.

Schizolectotype: USNM no. 31060.

Schizolectotype: MNHN.D.NBE. 1082.

Schizolectotype: BMNH 1928: 11: 12: 88. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis* (Lamarck, 1814).

Paralectotype: Mus. Torino Por. 76, without original label, Vieques.

Schizoparalectotype: USNM no. 31058.

Schizoparalectotype: MNHN.D.NBE. 1084.

Schizoparalectotype: BMNH 1928: 11: 12: 89. Wied., 1977: 254, *Niphates digitalis* fo. *digitalis*.

Paralectotypes: Mus. Torino Por. 117, without original label, Vieques, two specimens (fragments?).

Schizoparalectotype: USNM no. 31059.

Schizoparalectotype: MNHN.D.NBE. 1071.

Schizoparalectotypes: BMNH 1928: 11: 12: 87 and 90. Wied., 1977: 254, *Niphates digitalis* fo. *digitalis*.

Both BMNH fragments 87 and 90 correspond to the specimens under Mus. Torino Por. 117; the other fragments in Washington and Paris were taken from only one of the Torino specimens; which one is not known.

TUBA PAVONINA D. & M., 1864: 50, pl. IX, 1.

Lectotype: ZMA POR. 2413, original label present, St. Thomas. Wied., 1977: 97, 250, *Niphates digitalis* fo. *pavonina*, type designation. Van S., 1980: 38, *Niphates digitalis*, redescription, pl. VI, 1.

TUBA CRISPA D. & M., 1864: 50, pl. XI, 3.

Lectotype: Mus. Torino Por. 121, without original label, St. Thomas.

Schizolectotype: USNM no. 31051.

Schizolectotype: MNHN.D.NBE. 1080.

Schizolectotype: BMNH 1928: 11: 12: 95. Wied., 1977: 97, 254, *Niphates digitalis* fo. *digitalis* (Lamarck, 1814), type designation.

TUBA TORTOLENSIS D. & M., 1864: 51, pl. IX, 2.

Lectotype (fragment): BMNH 1928: 11: 12: 105, Tortole, type designation herein. Wied., 1977: 254, *Spinosella* cf. *villosa* (Pallas, 1766); Van S., 1980: 64, *Callyspongia vaginalis* Lamarck, 1816). The Torino specimen has apparently been lost since 1928.

TUBA LONGISSIMA D. & M., 1864: 51, pl. IX, 2, IC.

No extant type material. Wied., 1977: 107, *Spinosella longissima*; Van S., 1980: 64, *Callyspongia longissima*.

TUBA VAGINALIS (Lamarck, 1814); D. & M., 1864: 52.

Specimen: Mus. Torino Por. 120, original label present, Vieques.

Fragment: MNHN.D.NBE. 1074.

Fragment: BMNH 1928: 11: 12: 111. Wied., 1977: 101, 254, *Spinosella vaginalis* fo. *vaginalis*.

Specimen: ZMA POR. 2416, original label present, Vieques. Van S., 1980: 56, 64, *Callyspongia vaginalis*.

TUBA SUBENERVIA D. & M., 1864: 52.

Lectotype (fragment): BMNH 1928: 11: 12: 110, Viecques. Wied., 1977: 102, 254, *Spinosella vaginalis* fo. *vaginalis* (Lamarck, 1814), type designation; Van S., 1980: 64, *Callyspongia vaginalis*.

The Torino specimen has apparently been lost since 1928.

TUBA PLICIFERA (Lamarck, 1814); D. & M., 1864: 53, pl. X, 2, IA.

Specimen: ZMA POR. 2414, original label present, St. Thomas. Wied., 1977: 105, 250, *Spinosella plicifera*; Van S., 1980: 61, *Callyspongia plicifera*.

TUBA SCROBICULATA (Lamarck, 1814); D. & M., 1864: 53.

Specimen: Mus. Torino Por. 77, without original label, Tortole (this specimen resembles the figured specimen of *Tuba plicifera*, pl. X, 2; which probably means that labels have been mislaid).

Fragment: MNHN.D.NBE. 1065.

Fragment: BMNH 1928: 11: 12: 106. Wied., 1977: 106, 254, *Spinosella plicifera* (Lamarck, 1814).

Specimen: Mus. Torino Por. 124, original label present, St. Thomas.

Fragment: USNM no. 31062.

Fragment: MNHN.D.NBE. 1078.

Fragment: BMNH 1928: 11: 12: 107. Wied., 1977: 106, 254, *Spinosella plicifera*.

TUBA IRREGULARIS D. & M., 1864: 53.

Lectotype: ZMA POR. 2410, original label present, Viecques. Wied., 1977: 102, 250, *Spinosella vaginalis* fo. *vaginalis* (Lamarck, 1814); Van S., 1980: 57, *Callyspongia vaginalis*, type designation, redescription, pl. IX, 3.

Paralectotype: Mus. Torino Por. 78, without original label, St. Thomas. Van S., 1980: 57, *Callyspongia vaginalis*.

Schizoparalectotype: MNHN.D.NBE. 1066.

Paralectotype: ZMA POR. 2409, original label present, St. Thomas. Wied., 1977: 102, 250, *Spinosella vaginalis* fo. *vaginalis*.

TUBA SAGOTI D. & M., 1864: 54.

No extant type material.

CALLYSPONGIA ESCHRICHTII D. & M., 1864: 56, pl. XII, 1.

Lectotype: ZMA POR. 620, without original label, St. Thomas. Wied., 1977: 104, 250, *Spinosella vaginalis* fo. *eschrichti*, type designation; Van S., 1980: 50, *Callyspongia eschrichti*, redescription, pl. VIII, 2.

Paralectotype: Mus. Torino Por. 44, original label present, St. Thomas, figured pl. XII, 1. Van S., 1980: 50, *Callyspongia eschrichti*.

Schizoparalectotype: USNM no. 31009.

Schizoparalectotype: MNHN.D.NBE. 1063.

Paralectotype: Mus. Torino Por. 85, original label present, Tortole. Van S., 1980: 50, *Callyspongia eschrichti*.

Schizoparalectotype: USNM no. 31010.

Schizoparalectotype: MNHN.D.NBE. 1068.

Paralectotype: ZMA POR. 623, original label present, St. Thomas. Wied., 1977: 104, 106, 250, *Spinosella vaginalis* fo. *eschrichti*; Van S., 1980: 50, *Callyspongia eschrichti*, redescription, pl. VIII, 3.

? Schizoparalectotypes: BMNH 1928: 11: 12: 2, 3

and 4, St. Thomas and Tortole. Wied., 1977: 106, 254, *Spinosella plicifera*; Van S., 1980: 62, *Callyspongia plicifera*.

Presumably the BMNH fragments were wrongly labeled when transferred from Torino to London, as they cannot be matched to the Torino specimens and appear to belong to a different species.

CALLYSPONGIA BULLATA (Lamarck, 1814); D. & M., 1864: 56, pl. X, 5.

Specimen: ZMA POR 626, without original label, Viecques. Wied., 1977: 92, 250, *Callyspongia fallax*; Van S., 1980: 47, do., pl. VIII, 1.

CALLYSPONGIA INFLATA D. & M., 1864: 57.

No extant type material.

CALLYSPONGIA FALLAX D. & M., 1864: 57.

Lectotype: Mus. Torino Por. 84, without original label, St. Thomas. Van S., 1980: 47, *Callyspongia fallax*, type designation, redescription, pl. VII, 4.

Schizolectotype: USNM no. 31008.

Schizolectotype: MNHN.D.NBE. 1067.

Schizolectotype: BMNH 1928: 11: 12: 5. Wied.,

1977: 92, 254, *Callyspongia fallax* fo. *fallax*; Van S., 1980: 47, do.

CALLYSPONGIA TENERRIMA D. & M., 1864: 57, pl. X, 3-4.

No extant type material. Wied., 1977: 108, *Spinosella tenerrima*; Van S., 1980: 62, *Callyspongia tenerrima*.

LUFFARIA SEBAE D. & M., 1864: 59.

Lectotype: Mus. Torino Por. 47, without original label, St. Thomas. Van S., 1978: 61, *Aplysina lacunosa* (Pallas, 1766), type designation.

Schizolectotype: USNM no. 31015.

Schizolectotype: MNHN.D.NBE. 1304.

Schizolectotype: BMNH 1928: 11: 12: 14. Wied., 1977: 67, 254, *Aplysina lacunosa*; Van S., 1978: 61; do.

Paralectotype: ZMA POR. 1478, original label present, St. Thomas. Wied., 1977: 67, 250, *Aplysina lacunosa*; Van S., 1978: 61, do., redescription, pl. XII, 2.

Paralectotype: ZMA POR. 1479, original label present, St. Thomas. Wied., 1977: 67, 250, *Aplysina lacunosa*; Van S., 1978, 61, do., redescription, pl. XII, 3.

LUFFARIA RUPICOLA D. & M., 1864: 60.

? Lectotype: ZMA POR. 1477, original label present, St. Thomas. Wied., 1977: 250, *Haliclona complanata*; Van S., 1978: 64, *Spongia tubulifera* Lamarck, 1814.

Since the specimen does not fit the description given by D. & M., it is likely that labels have been mislaid.

LUFFARIA FISTULARIS (Esper, 1794); D. & M., 1864: 60.

No extant type specimens labeled in precisely this way. However, the Torino Museum holds a D. & M. specimen, Por. 104, labeled "*Spongia fistularis* St. Thomas" (label not original). A fragment of it is represented in London, BMNH 1928: 11: 12: 68. It is possible, that the specimen is part of the original D. & M. material, although the locality given in the 1864 report is Guadeloupe.

LUFFARIA NUCIFORMIS D. & M., 1864: 60, pl. XI, 2.
Lectotype: ZMA POR. 1476, original label present, St. Thomas. Wied., 1977: 67, 250, *Aplysina lacunosa* (Pallas, 1766), type designation; Van S., 1978: 61, do., redescription, Pl. XII, 1.

LUFFARIA INSULARIS D. & M., 1864: 61.
Lectotype: ZMA POR. 1475, original label present, St. Thomas. Wied., 1977: 64, 250, *Aplysina fistularis* fo. *fistularis* (Pallas, 1766), type designation; Van S., 1978: 56, *Aplysina fistularis insularis*, redescription, pl. X, 3.

LUFFARIA RIGIDA (Esper, 1794); D. & M., 1864: 61, pl. XII, 2.
No extant material.

LUFFARIA FULVA (Lamouroux, 1816); D. & M., 1864: 63, pl. X, 6-7.
Specimen: Mus. Torino Por. 49, without original label, St. Thomas.
Fragment: USNM no. 31014.
Fragment: BMNH 1928: 11: 12: 13. Wied., 1977: 68, 254, *Aplysina cauliformis* Carter, 1882.
Specimen: ZMA POR. 1474, original label present, Tortole. Wied., 1977: 253, *Verongula ardis* De Laubenfels, 1950; Van S., 1978: 67, *Verongula rigida* (Esper, 1794), redescription.
Next to the above mentioned specimens it is quite likely that other specimens labeled "*Spongia fulva*" in the Torino Museum (Por. 100, Antille), in ZMA (POR. 2085, St. Thomas, cf. redescription in Van S., 1978: 62, pl. XI, 1), and fragments in BMNH (nos. 1928: 11: 12: 69, no locality, and 71, Viecques) belong to D. & M.'s original material.

LUFFARIA PICEA D. & M., 1864: 63 (as *Luffaria picca*, but corrected in errata).
No extant type material.

LUFFARIA APPLICATA D. & M., 1864: 63, pl. XI, 1.
No extant type material.

LITHOSPONGIA TORVA D. & M., 1864: 65, pl. XII, 3-4, IIG.
No extant type material.

POLYTHESES CAMPANA (Lamarck, 1816); D. & M., 1864: 68, pl. XII, 5, IF.
Specimen: Mus. Torino Por. 82, without original label, St. Thomas.
Fragment: MNHN.D.NBE. 1316.
Specimen: ZMA POR. 1852, without original label, St. Thomas. Wied., 1977: 250, *Ircinia campana*; Van S., 1978: 39, do.

POLYTHESES CAMPANA var. *FIXA* D. & M., 1864: 68.
No extant type material.
According to Duchassaing (1870) it should have been named *Polythereses campana* var. *dimidiata*.

POLYTHESES TINTINNABULUM D. & M., 1864: 69 (as *Polythereses tintrimabulum*, but corrected in errata).
No extant type material.

POLYTHESES LINGUIFORMIS D. & M., 1864: 69.
Lectotype: Mus. Torino Por. 83, type designation herein, without original label, Tortole.

Van S., 1978: 42, *Ircinia strobilina* (Lamarck, 1814).
Schizolectotype: USNM no. 31030.
Schizolectotype: MNHN.D.NBE. 1322.
Schizolectotype: BMNH 1928: 11: 12: 27. Wied., 1977: 62, 254, *Ircinia strobilina*.

POLYTHESES TRISTIS D. & M., 1864: 70
No extant type material.

POLYTHESES ARMATA D. & M., 1864: 70, pl. XIII, 1.
Lectotype: ZMA POR. 1851, original label present, St. Thomas. Wied., 1977: 60, 250, *Ircinia felix* (D. & M., 1864), type designation; Van S., 1978: 33, do., redescription, pl. VI, 3.

POLYTHESES MARGINALIS D. & M., 1864: 70.
No extant type material.

POLYTHESES IGNOBILIS D. & M., 1864: 71, pl. XIII, 4.
Lectotype: Mus. Torino Por. 61, type designation herein, without original label, St. Thomas, figured pl. XIII, 4.
Schizolectotype: USNM no. 31029.
Schizolectotype: MNHN.D.NBE. 1321.
The specimen seems to conform to *Ircinia strobilina* (Lamarck, 1814).

POLYTHESES LONGISPINA D. & M., 1864: 71.
Lectotype: ZMA POR. 1855, original label present, St. Thomas. Wied., 1977: 62, 250, *Ircinia strobilina* (Lamarck, 1814), type designation; Van S., 1978: 40, do., redescription, pl. VII, 4.

POLYTHESES ACUTA D. & M., 1864: 72, pl. XIII, 3.
No extant specimens labeled as such. However, the BMNH collection holds a fragment (1928: 11: 12: 114) labeled *Spongia acuta* bearing a resemblance to D. & M.'s figure. The fragment seems to conform to *Ircinia strobilina* (Lamarck, 1814), which is in accordance with synonymy quotations of Wied. (1977: 62) and Van S. (1978: 40).

POLYTHESES FELIX D. & M., 1864: 72, pl. XIII, 2.
Lectotype: ZMA POR. 1854, original label present, St. Thomas. Wied., 1977: 60, 250, *Ircinia felix*; Van S., 1978: 33, do., type designation, redescription, pl. VI, 2.
Paralectotype: Mus. Torino Por. 63, without original label, St. Thomas, probably figured pl. XIII, 2. Van S., 1978: 33, *Ircinia felix*.
Schizoparalectotype: USNM no. 31031.
Schizoparalectotype: MNHN.D.NBE. 1320.
Schizoparalectotype: BMNH 1928: 11: 12: 23. Wied., 1977: 60, 255, *Ircinia felix*; Van S., 1978: 33, do.

POLYTHESES CAPITATA D. & M., 1864: 72.
Lectotype: Mus. Torino Por. 60, without original label, St. Thomas. Van S., 1978: 40, *Ircinia strobilina* (Lamarck, 1814), type designation.
Schizolectotype: USNM no. 31027.
Schizolectotype: BMNH 1928: 11: 12: 24. Wied., 1977: 62, 255, *Ircinia strobilina*; Van S., 1978: 40, do.
Paralectotype: ZMA POR. 1853, original label present, St. Thomas. Wied., 1977: 62, 250, *Irci-*

nia strobilina; Van S., 1978: 40, do., redescription, pl. VIII, 1.

POLYTHESES COLUMNARIS D. & M., 1864: 73 (as *Polytheses columnaris* but corrected in errata). Lectotype: Mus. Torino Por. 62, type designation emended herein, without original label, St. Thomas. Van S., 1978: 42, *Ircinia felix* D. & M., 1864.

Schizolectotype: USNM no. 31028.

Schizolectotype: MNHN.D.NBE. 1318.

Schizolectotype: BMNH 1928: 11: 12: 26. Wied., 1977: 60, 255, *Ircinia felix*, designated lectotype.

POLYTHESES CYLINDRICA D. & M., 1864: 73.

Lectotype: Mus. Torino Por. 79, type designation herein, without original label, St. Thomas. Van S., 1978: 42, *Ircinia strobilina* (Lamarck, 1814).

Schizolectotype: MNHN.D.NBE. 1319.

Schizolectotype: BMNH 1928: 11: 12: 25. Wied., 1977: 255, *Ircinia* sp. indet.; Van S., 1978: 42, *Ircinia strobilina*.

HYRTIOS PROTEUS D. & M., 1864: 74, pl. XIV, 4.

Lectotype: Mus. Torino Por. 46, type designation emended herein, largest of both specimens under this registration number (about 8 cm long), without original label, St. Thomas. Van S., 1978: 45, *Hyrtios proteus*, type designation (partly incorrect).

Schizolectotype: MNHN.D.NBE. 1303.

Schizolectotype: BMNH 1928: 11: 12: 29. De Laubenfels, 1948: 160, designated lectotype; Wied., 1977: 59, 255, *Hyrtios cavernosus* (Pallas, 1766); Van S., 1978: 45, *Hyrtios proteus*.

Paralectotype: Mus. Torino Por. 46, smallest of both specimens under this registration number (about 5 cm long). Van S., 1978: 45, *Hyrtios proteus*.

Schizoparalectotype: USNM no. 31013.

Schizoparalectotype: BMNH 1928: 11: 12: 30. Wied., 1977: 59, 255, *Hyrtios cavernosus*; Van S., 1978: 45, *Hyrtios proteus*.

The type designations of De Laubenfels (1948), Wied. (1977) and Van S. (1978) are here emended, because it is now clear that the BMNH fragment designated as lectotype by De Laubenfels (1948) originated from the largest of the two Torino specimens. Two specimens in ZMA labeled "*Hyrtios proteus*" (POR. 1428 and 1429) are obvious cases of mislaid labels, since they do not fit the D. & M. description.

HYRTIOS VILIS D. & M., 1864: 75.

No extant type material.

HYRTIOS MUSCIFORMIS D. & M., 1864: 75, pl. XIV, 3.

Lectotype: ZMA POR. 1427, type designation herein, without original label, St. Thomas. Wied., 1977: 138, 250, *Iotrochota birotulata* (Higgin, 1877).

AGELAS DISPAR D. & M., 1864: 76, pl. XV, 1, IG.

Lectotype: ZMA POR. 607, original label present, St. Martin. Wied., 1977: 128, 250, *Agelas dispar*, type designation.

Burton & Rao (1932) designated an otherwise not described specimen in the British Museum collection as neotype for *Agelas dispar*, since they were convinced that the original type material was "irretrievably" lost. This neotype designa-

tion is invalid for various reasons (cf. also Wied., 1977: 128).

AGELAS DISPAR var. a; D. & M., 1864: 76.

No labeled specimens are known to be extant.

AGELAS RUDIS D. & M., 1864: 77, pl. XV, 2.

No extant type material. Wied., 1977: 131, ?*Agelas clathrodes* (Schmidt, 1870).

AGELAS ALBOLUTEA D. & M., 1864: 77.

Lectotype (fragment): BMNH: 11: 12: 1, type designation herein, original label present, St. Thomas. Wied., 1977: 255, *Cribrochalina albolutea*; Van S., 1980: 45, *Cribrochalina* cf. *vasculum* (Lamarck, 1814).

The Torino specimen has apparently been lost since 1928.

AGELAS DILATATA D. & M., 1864: 77, pl. XIV, 1, IIF.

No extant type material.

AMPHIMEDON COMPRESSA D. & M., 1864: 78, pl. XVII, 2.

Lectotype: ZMA POR. 863, original label present, St. Thomas. Wied., 1977: 82, 250, *Haliclona (Amphimedon) compressa*, type designation; Van S., 1980, 26, *Amphimedon compressa*, redescription, pl. III, 2.

Paralectotype: Mus. Torino Por. 35, without original label, St. Croix, figured pl. XVII, 2.

Wied., 1977: 82, *Haliclona (Amphimedon) compressa*; Van S., 1980: 26, *Amphimedon compressa*.

Schizoparalectotype: USNM no. 31003.

Schizoparalectotype: MNHN.D.NBE. 1056.

Schizoparalectotype: BMNH 1928: 11: 12: 42. Wied., 1977: 82, 255, *Haliclona (Amphimedon) compressa*; Van S., 1980: 26, *Amphimedon compressa*.

AMPHIMEDON ARBORESCENS D. & M., 1864: 79, pl. ID.

Lectotype: ZMA POR. 878, original label present, St. Thomas. Wied., 1977: 82, 250, *Haliclona (Amphimedon) compressa* (D. & M., 1864); Van S., 1980: 27, *Amphimedon compressa*, type designation, redescription, pl. III, 3.

Paralectotypes (fragments): BMNH 1928: 11: 12: 40-41. Wied., 1977: 82, 255, *Haliclona (Amphimedon) compressa*; Van S., 1980: 27, *Amphimedon compressa*.

The Torino specimens have apparently been lost since 1928.

AMPHIMEDON ARBORESCENS var. *ENSIFORME* D. & M., 1864: 79, pl. XIV, 2.

Lectotype: Mus. Torino Por. 39, without original label, St. Thomas, figured pl. XIV, 2. Wied., 1977: 82, *Haliclona (Amphimedon) compressa*; Van S., 1980: 27, *Amphimedon compressa*, type designation.

Schizolectotype: USNM no. 31002.

Schizolectotype: MNHN.D.NBE. 1061.

It is possible that the paratype fragment BMNH 1928: 11: 12: 40 of *Amphimedon arborescens* (cf. above) represents a fragment of this Torino specimen.

AMPHIMEDON VARIABILIS D. & M., 1864: 80, pl. XXI, 4, XXII, 2, IIF.

Lectotype: Mus. Torino Por. 37, without original label, Antille, figured pl. XXII, 2 (now broken up into three fragments). Van S., 1978:

53, *Dysidea variabilis*, type designation.

Schizolectotype: USNM no. 31006.

Schizolectotype: MNHN.D.NBE. 1058.

Paralectotype: Mus. Torino Por. 36, original label present, St. Thomas, figured pl. XXI, 4 (now broken up into four fragments).

Schizoparalectotype: USNM no. 31005.

Schizoparalectotype: MNHN.D.NBE. 1057.

Schizoparalectotypes: BMNH 1928: 11: 12: 37-38.

Wied., 1977: 255, *Dysidea variabilis*.

Paralectotype: ZMA POR. 614, without original label, St. Thomas. Wied., 1977: 250, *Dysidea variabilis*; Van S., 1978: 53, do., redescription, pl. IX, 4a.

Paralectotype: ZMA POR. 616, original label present, St. Thomas. Wied., 1977: 250, *Dysidea variabilis*; Van S., 1978: 53, do., redescription, pl. IX, 4b.

Because De Laubenfels' notes on the BMNH fragment labels and wrappers are vague, it is not possible to trace the fragments to their original Torino specimens; the best course to be followed, then, seems to designate the BMNH fragments both as paratypes. Although the label with the holotype gives "Antille" as the type locality, it is clear from D. & M.'s text, that it should be St. Thomas.

AMPHIMEDON FEROX D. & M., 1864: 81, pl. XII, 6.

Lectotype: Mus. Torino Por. 38, original label present, St. Thomas (D. & M.'s text: "Water Island near St. Thomas") figured pl. XII, 6. Wied., 1977: 159, *Ectyoplasia ferox ferox*, type designation.

Schizolectotype: USNM no. 31004.

Schizolectotype: MNHN.D.NBE. 1059.

Schizolectotype: BMNH 1928: 11: 12: 39. Wied., 1977: 159, 255, *Ectyoplasia ferox ferox*.

AMPHIMEDON DILATATA D. & M., 1864: 81.

No extant type material.

According to Duchassaing (1870) this species is identical to *Agelas dilatata*.

AMPHIMEDON VIRIDIS D. & M., 1864: 81, pl. XVI, 2-3.

Lectotype: Mus. Torino Por. 40, type designation herein, without original label, St. Thomas (D. & M.'s text: "Water Island, near St. Thomas"), now broken up into three large fragments. Wied., 1977: 84, *Haliclona (Amphimedon) viridis*; Van S., 1980: 29, *Amphimedon viridis*.

Schizolectotype: USNM no. 31007.

Schizolectotype: MNHN.D.NBE. 1060.

Schizolectotype: BMNH 1928: 11: 12: 35, Wied., 1977: 84, 255, *Haliclona (Amphimedon) viridis*; Van S., 1980: 29, *Amphimedon viridis*.

Schizolectotype: BMNH 1928: 11: 12: 36. Wied., 1977: 84, 255, *Haliclona (Amphimedon) viridis*; Van S., 1980: 29, *Amphimedon viridis*.

De Laubenfels (1950) designated BMNH 1928: 11: 12: 36 as lectotype, which led Wiedenmayer (1977) to designate the Torino material as "syn-types". Van Soest (1980) designated the Torino specimens as paratypes. All these designations are unnecessary, as it is likely that there was only a single specimen originally, which is now broken up into three fragments.

AMPHIMEDON NOLITANGERE D. & M., 1864: 82, pl. XV, 3.

Lectotype: Mus. Torino Por. 42, without original label, St. Thomas, probably part of the specimen figured in pl. XV, 3. Hartman, 1967:

7, *Neofibularia nolitangere nolitangere*, type designation, redescription, pl. I, 1; Wied., 1977: 148, do.

Schizolectotype: MNHN.D.NBE. 1062

Schizolectotype: BMNH 1928: 11: 12: 34. Wied., 1977: 148, 255, *Neofibularia nolitangere nolitangere*.

A D. & M. specimen in ZMA labeled with this name (ZMA POR. 612) is an obvious victim of mislaid labels. It clearly does not conform to the original description and appears to be a small *Tedania ignis* incrusting a gorgonian stalk.

AMPHIMEDON LEPROSA D. & M., 1864: 82, pl. XV, 4, IE.

No extant type material.

THALYSIAS IGNIS D. & M., 1864: 83, pl. XVIII, 1, 7; pl. IIIH.

Lectotype: Mus. Torino Por. 72, type designation herein, without original label, St. Thomas, figured pl. XVIII, 1. Now broken up into three fragments. Wied., 1977: 133, *Tedania ignis*.

Schizolectotype: MNHN.D.NBE. 1341.

Schizolectotype: BMNH 1928: 11: 12: 437, Wied., 1977: 133, 255, *Tedania ignis*.

Paralectotype: ZMA POR. 2373, without original label, St. Thomas. Wied., 1977: 133, 250, *Tedania ignis*.

THALYSIAS CARBONARIA (Lamarck, 1814) D. & M., 1864: 83, pl. XVII, 4, XIX, 2.

Specimen: Mus. Torino Por. 73, without original label, St. Thomas, figured pl. XVII, 4.

Fragment: USNM no. 31046.

Fragment: MNHN.D.NBE. 1340.

Fragment: BMNH 1928: 11: 12: 44. Wied., 1977: 255, *Adocia carbonaria*.

Specimen: ZMA POR. 2371, original label present, St. Thomas. Van S., 1980: 83, *Pellina carbonaria*, pl. XIII, 3.

Specimen: Mus. Genova C.E. 38.765.

The Torino museum also holds a D. & M., specimen (Por. 103) labeled "*Spongia carbonaria*", without original label, from St. Thomas; fragments of it are in the BMNH collection: 1928: 11: 12: 56, and in MNHN.D.NBE. 1324.

THALYSIAS PROXIMA D. & M., 1864: 84, pl. XVIII, 2-3.

Lectotype: Mus. Torino Por. 74, type designation herein, without original label, Antille, type designation herein, figured pl. XVIII, 3, right part. Now broken up into two fragments.

Schizolectotype: USNM no. 31047.

Schizolectotype: MNHN.D.NBE. 1342.

Schizolectotype: BMNH 1928: 11: 12: 45., 1977: 255, *Neofibularia proxima*; Van S., 1984: *Xestospongia proxima*.

Wiedenmayer apparently thought that the microscleres of *Neofibularia nolitangere* found abundantly on the surface of the BMNH fragment were proper to it and thus drew the wrong conclusion. The material in Torino clearly conforms to *Xestospongia*.

THALYSIAS RUGOSA D. & M., 1864: 84, pl. XVIII, 4.

Lectotype: ZMA POR. 2372, original label present, St. Thomas (at a later date this specimen was erroneously labeled "*Thalysias coccinea*"). Wied., 1977: 113, 251, *Xestospongia subtriangularis* (D. & M., 1864) forma *rugosa*, type design-

nation; Van S., 1980: 72, *Xestospongia subtriangularis*, redescription, pl. XII, 1.

The ZMA collection holds another D. & M. specimen labeled "*Thalysias rugosa*", without original label, St. Thomas, but it does not conform to the original description. It is a piece of *Aplysina fistularis* (Pallas, 1766) (cf. Wiedenmayer, 1977: 253, and Van Soest, 1978: 56).

THALYSIAS COCCINEA D. & M., 1864: 84, pl. XVIII, 5.

Lectotype (fragment): BMNH 1928: 11: 12: 46, St. Thomas, type designation herein. Wied., 1977: 255, *Spirastrella coccinea*.

Paralectotype: ZMA POR. 2076, original label reads "*Sp. clavaherculis* St. Thomas", an obvious case of mislaid labels. Wied., 1977: 251, *Spirastrella coccinea*.

The ZMA collection holds two other D. & M. specimens, one labeled "*Thalysias coccinea*" (ZMA POR. 2372), which is the lectotype of *Thalysias rugosa* (original label inside the jar), and one labeled "*Thalysias coccinea + Terpios fugax*", original label present (ZMA POR. 2291), which is a specimen of *Aplysina cauliformis* (Carter, 1882) (cf. Wiedenmayer, 1977: 253, and Van Soest, 1978: 63).

Wiedenmayer (1977: 163) decided to designate the BMNH material as part of the lectotype of this species under the assumption that there still was a Torino specimen extant. This has apparently been lost since 1928.

THALYSIAS VESPARIA (Lamarck, 1814) D. & M., 1864: 85.

No extant material.

THALYSIAS SUBTRIANGULARIS (Duchassaing, 1850) D. & M., 1864: 85, pl. XVII, 1, IIC.

Fragment (? lectotype): BMNH 1928: 11: 12: 47, St. Thomas. Wied., 1977: 113, 255, *Xestospongia subtriangularis*, type designation.

The Torino specimen has apparently been lost since 1928. It is uncertain whether Duchassaing's 1850 material is included in the D. & M. material, so the type status of the present fragment is doubtful. A neotype designation would end this uncertainty.

It is possible that one of both varieties mentioned by D. & M. under the present heading was intended as the typical variety, probably the var. A: *cylindrica* (pl. XVII, 1).

THALYSIAS SUBTRIANGULARIS var. *CYLINDRICA* D. & M., 1864: 85.

No labeled specimens extant, but see above.

THALYSIAS SUBTRIANGULARIS var. *LYRIFORMIS* D. & M., 1864: 85, pl. XIX, 1.

Lectotype: ZMA POR. 2375, original label present. St. Thomas. Wied., 1977: 113, 251. *Xestospongia subtriangularis* forma *lyriformis*; Van S., 1980: 71, *Xestospongia subtriangularis* type designation, redescription, pl. XI, 4.

Paralectotype: ZMA POR. 2376, original label present, St. Thomas. Wied., 1977: 113, 251, *Xestospongia subtriangularis* forma *lyriformis*; Van S., 1980: 71, *Xestospongia subtriangularis*, redescription.

THALYSIAS HIANS D. & M., 1864: 86, pl. XVI, 1, IIB (as *Thalysias hyano* but corrected in errata).

No extant type material.

THALYSIAS VARIANS D. & M., 1864: 86, pl. XVII, 3.

Lectotype: Mus. Torino Por. 71, type designation herein, without original label, Antille, figured pl. XVII, 6.

Schizolectotype: USNM no. 31048.

Schizolectotype: MNHN.D.NBE. 1343.

Schizolectotype: BMNH 1928: 11: 12: 49. Wied., 1977: 165, 255, *Anthosigmella varians* forma *variens*.

Paralectotype: ZMA POR 2377, original label present, St. Thomas. Wied., 1977: 165, 251, *Anthosigmella varians* forma *variens*.

THALYSIAS VARIANS var. *DIGITATA* D. & M., 1864: 86.

No extant type material.

THALYSIAS VARIANS var. *INCRUSTANS* D. & M., 1864: 86.

Lectotype (fragment): BMNH 1928: 11: 12: 48, St. Thomas, type designation herein. Wied., 1977: 255, *Anthosigmella varians* forma *incrustans*.

The Torino specimen has apparently been lost since 1928.

THALYSIAS VIRGULTOSA (Lamarck, 1814) D. & M., 1864: 86, pl. XXIII, 3.

Specimen: Mus. Torino Por. 70, without original label, St. Thomas, figured pl. XXIII, 3. De Laubenfels, 1936: 104, *Thalysias juniperina* (Lamarck, 1814).

Fragment: USNM no. 31049.

Fragment: MNHN.D.NBE. 1344.

Fragment: BMNH 1928: 11: 12: 50, "Vieques", Wied., 1977: 142, 255, *Thalysias juniperina*.

Specimen: Mus. Genova C.E. 38.766.

The Torino museum collection holds a D. & M. specimen labeled *Spongia virgultosa* (Por. 87); fragments of it are in Paris (MNHN.D.NBE. 1338) and London (BMNH 1928: 11: 12: 85).

THALYSIAS SAXICAVA D. & M., 1864: 87.

No extant type material.

PANDAROS ARBUSCULUM D. & M., 1864: 88, pl. XVIII, 6.

Lectotype: ZMA POR. 1728, type designation herein, without original label, St. Thomas. Wied., 1977: 153, 251, *Ptilocaulis* sp. aff. *spiculifer* (Lamarck, 1814).

Paralectotype: ZMA POR. 1729, original label present, St. Thomas. Wied., 1977: 144, 251, *Pandaros acanthifolium* D. & M., 1864.

The present type designation has nomenclatorial implications, if the lectotype should prove to be specifically distinct from Lamarck's material.

PANDAROS PENNATA D. & M., 1864: 88, pl. XX, 3.

Lectotype: Mus. Torino Por. 58, type designation herein, original label present, St. Thomas, figured pl. XX, 3.

Schizolectotype: USNM no. 31024.

Schizolectotype: MNHN.D.NBE. 1313.

Schizolectotype: BMNH 1928: 11: 12: 22. Wied., 1977: 255, *Echinodictyum pennatum*.

Paralectotype: ZMA POR. 1731, original label present, Antilles. Wied., 1977: 251, *Echinodictyum pennatum*.

PANDAROS LUGUBRIS D. & M., 1864: 89.

Lectotype: Mus. Torino Por. 55, type designa-

tion herein, original label present, St. Thomas. Schizolectotype: USNM no. 31023. Schizolectotype: MNHN.D.NBE. 1312. Schizolectotype: BMNH 1928: 11: 12: 21. Wied., 1977: 255, *Echinodictyum lugubre*.

PANDAROS ANGULOSA D. & M., 1864: 89, pl. XIX, 4. Lectotype: Mus. Torino Por. 54, original label present, St. Thomas, figured pl. XIX, 4. Van S., 1984: *Mycale angulosa*, type designation, redescription. Schizolectotype: USNM no. 31021. Schizolectotype: MNHN.D.NBE. 1310. Schizolectotype: BMNH 1928: 11: 12: 20.

PANDAROS ACANTHIFOLIUM D. & M., 1864: 90, pl. XX, 2. Lectotype: Mus. Torino Por. 57, type designation herein, without original label, St. Thomas, figured pl. XX, 2. Schizolectotype: USNM no. 31020. Schizolectotype: MNHN.D.NBE. 1309. Schizolectotype: BMNH 1928: 11: 12: 16. Wied., 1977: 144, 255, *Pandaros acanthifolium*. Schizoparalectotype: BMNH 1928: 11: 12: 15, St. Thomas. Wied., 1977: 144, 255, *Pandaros acanthifolium*. Paralectotype: Mus. Genova C.E. 38.762. The Torino specimen from which the latter fragment was taken, has apparently been donated to the Genova Museum in 1955.

PANDAROS JUNIPERINA (Lamarck, 1814) D. & M., 1864: 90, pl. XIX, 3. Specimen: Mus. Torino Por. 53, without original label, St. Thomas (Note: an original label with this specimens reading "*P. walpersii*" does not seem to belong with it). Fragment: USNM no. 31022. Fragment: MNHN.D.NBE. 1311. Fragment: BMNH 1928: 11: 12: 18. Wied., 1977: 142, 255, *Thalysia juniperina*. Fragment: BMNH 1928: 11: 12: 19. Specimen: ZMA POR. 1730, original label present, St. Thomas. Wied., 1977: 253, identity unknown; Van S., 1984: *Rhaphidophus juniperinus*.

PANDAROS WALPERSII D. & M., 1864: 90, pl. XX, 4, IID. Lectotype: Mus. Torino Por. 56, type designation herein, without original label, St. Thomas. Schizolectotype: USNM no. 31025. Schizolectotype: MNHN.D.NBE. 1314. Schizolectotype: BMNH 1928: 11: 12: 17. Wied., 1977: 255, *Ptilocaulis walpersi*. Paralectotype: Mus. Genova C.E. 38.763.

PHORBAS VIECQUENSIS D. & M., 1864: 91. No extant type material.

PHORBAS AMARANTHUS D. & M., 1864: 92, pl. XXI, 1. Lectotype: Mus. Torino Por. 59, type designation herein, original label present, St. Thomas, part of specimen figured in pl. XXI, 1. Van S., 1984: *Phorbis amaranthus*, redescription. Schizolectotype: USNM no. 31026. Schizolectotype: MNHN.D.NBE. 1315. Schizolectotype: BMNH 1928: 11: 12: 12. Wied., 1977: 255, *Phorbis amaranthus*.

NIPHATES ERECTA D. & M., 1864: 93, pl. XXI, 3. Lectotype: ZMA POR 1633, original label pre-

sent, St. Thomas. Wied., 1977: 96, 251, *Niphates erecta*, type designation; Van S., 1980: 35, do., redescription, pl. V, 2. Paralectotype: Mus. Torino Por. 51, without original label, figured pl. XXI, 3. Van S., 1980: 35, *Niphates erecta*. Schizoparalectotype: USNM no. 31018. Schizoparalectotype: MNHN.D.NBE. 1307.

NIPHATES VENOSA D. & M., 1864: 94, pl. XXI, 2. Lectotype: Mus. Torino Por. 52, without original label, St. Thomas, probably figured pl. XXI, 2. (Now broken up into two pieces). Schizolectotype: USNM no. 31019. Schizolectotype: MNHN.D.NBE. 1308. Schizolectotype: BMNH 1928: 11: 12: 33. Wied., 1977: 96, 255, *Niphates erecta* D. & M., 1864, type designation.

NIPHATES THOMASIANA D. & M., 1864: 94, pl. XXII, 1. No extant type material.

ACAMAS LAXISSIMA D. & M., 1864: 95, pl. XXII, 3. Lectotype: Mus. Torino Por. 34, type designation herein, without original label, Antille (but St. Thomas in original text), figured pl. XXII, 3. De Laubenfels, 1936: 117, *Acamasina laxissima*. Schizolectotype: USNM no. 31001. Schizolectotype: MNHN.D.NBE. 1300. Schizolectotype: BMNH 1928: 11: 12: 112. Wied., 1977: 254, *Acamasina laxissima*. Van Soest (1984) considers *Acamasina* to be a subgenus of *Mycale* Gray, 1867.

ACAMAS VIOLACEA D. & M., 1864: 95, pl. XXII, 4. Lectotype: ZMA POR. 615, without original label, St. Thomas. Van S., 1978: 30, *Oligoceras violacea*, type designation, redescription, pl. V, 4. According to Bergquist (1980) the genus *Oligoceras* Schulze, 1879 is synonymous with *Hyrtios* D. & M., 1864.

ARCESIOS PROMINULA D. & M., 1864: 96, pl. XXII, 5-6. No extant type material.

ARCESIOS POROSA D. & M., 1864: 96, pl. XXII, 7. No extant type material.

ARCESIOS HOSTILIS D. & M., 1864: 97. No extant type material.

TERPIOS CORALLINA D. & M., 1864: 98, pl. XXIII, 1. No extant type material.

TERPIOS DESBONII D. & M., 1864: 98. No extant type material.

TERPIOS AURANTIACA D. & M., 1864: 99, pl. XXIV, 1. Lectotype: Mus. Torino Por. 64, type designation herein, without original label, St. Thomas. Schizolectotype: USNM no. 31045. Schizolectotype: MNHN.D.NBE. 1339. Schizolectotype: BMNH 1928: 11: 12: 7. Wied., 1977: 255, *Terpios zeteki* De Laubenfels, 1936. Wiedenmayer's opinion on the identity of this species was based presumably on examination of *Terpios zeteki* sensu De Laubenfels (1950); this seems to be specifically distinct from *T.*

zeteki De Laubenfels (1936).

TERPIOS TENUIS D. & M., 1864: 100, pl. XXIV, 2-3.

Lectotype (fragmentary): BMNH 1928: 11: 12: 8, St. Thomas, type designation herein.

The material is so scanty that its identity in modern context cannot be established. The Torino specimen has apparently been lost since 1928.

TERPIOS CLADOCERAE D. & M., 1864: 100, pl. XXIII, 4 (as *Terpios cladocera*, but corrected in errata).

Lectotype (fragmentary): BMNH 1928: 11: 12: 9, St. Thomas, type designation herein. Wied., 1977: 255, "contains very long styles exclusively".

The material is so scanty that its identity in modern context cannot be established. The Torino specimen has apparently been lost since 1928.

TERPIOS JANIAE D. & M., 1864: 101, pl. XXII, 8-9 (as *Terpios jania*, but corrected in errata). Lectotype: ZMA POR. 2292, original label present, St. Thomas. Wied., 1977: 73, 251, *Dysidea janiae*, type designation; Van S., 1978: 51, do., redescription, pl. IX, 2.

TERPIOS NIGER D. & M., 1864: 102, pl. XXIII, 2. No extant type material.

TERPIOS ECHINATA D. & M., 1864: 102, pl. XXIV, 4-5.

Lectotype (fragmentary): BMNH 1928: 11: 12: 10, St. Thomas, type designation herein. Wied., 1977: 255, "seems to contain only foreign spicules".

The material is so scanty that its identity in modern context cannot be established. The Torino specimen has apparently been lost since 1928.

TERPIOS FUGAX D. & M., 1864: 102, pl. XXIV, 6-7. Lectotype (fragmentary): BMNH 1928: 11: 12: 11, St. Thomas, type designation herein. Wied., 1977: 255, *Terpios fugax*.

A D. & M. specimen in the ZMA collection labeled "*Terpios fugax*" (POR. 2291) does not conform to the original description; it is a specimen of *Aplysina cauliformis* (Carter, 1882) according to Van Soest (1978: 63).

TETHYA GLOBUM D. & M., 1864: 104. No extant type material.

GEODIA GIBBEROSA (Lamarck, 1814) D. & M., 1864: 105, pl. XXV, 1. No extant material.

GEODIA CARIBOEA D. & M., 1864: 105, pl. XXIV, 8 (as *Geodia cariboa*, but corrected in errata). Lectotype: Mus. Torino Por. 45, type designation herein, without original label, St. Thomas, figured pl. XXIV, 8. Schizolectotype: USNM no. 31012. Schizolectotype: MNHN.D.NBE. 1302. Schizolectotype: BMNH 1928: 11: 12: 6. Wied., 1977: 255, *Geodia cariboea*. Paralectotype: ZMA POR. 1061, original label present, St. Thomas.

EURYADES NOTABILIS D. & M., 1864: 106, pl. XXV, 3.

Lectotype: ZMA POR. 1044, without original label, St. Thomas. Wied., 1977: 251, *Darwinella*

joyeui Topsent, 1905; Van S., 1978: 77, *Igernella notabilis*, type designation, redescription, pl. XV, 1.

Paralectotype: Mus. Torino Por. 43, without original label, St. Thomas, figured pl. XXV, 3. De Laubenfels, 1936: 30, *Euryspongia notabilis*; Van S., 1978: 77, *Igernella notabilis*.

Schizoparalectotype: USNM no. 31011.

Schizoparalectotype: MNHN.D.NBE. 1301.

Schizoparalectotype: BMNH 1928: 11: 12: 28. Wied., 1977: 255, *Fasciospongia* spec.; Van S., 1978: 77, *Igernella notabilis*.

MEDON IMBERBIS D. & M., 1864: 111, pl. XXV, 2.

Lectotype: Mus. Torino Por. 48, type designation herein, original label present, St. Thomas, part of specimen figured in pl. XXV, 2.

Schizolectotype: USNM no. 31017.

Schizolectotype: MNHN.C.NBE. 1306.

Schizolectotype: BMNH 1928: 11: 12: 53. Burton, 1963: 263, *Pericharax imberbis*.

Schizoparalectotype: BMNH 1928: 11: 12: 51, St. Thomas. Burton, 1963: 263, *Pericharax imberbis*.

The Torino specimen from which the schizoparalectotype was taken has apparently been lost since 1928.

MEDON BARBATA D. & M., 1864: 111, pl. XXIV, 9-10.

Lectotype: Mus. Torino Por. 50, type designation herein, without original label, St. Thomas, several fragments of originally one compound specimen.

Schizolectotype: USNM no. 31016.

Schizolectotype: MNHN.C.NBE. 1305.

Schizolectotype: BMNH 1928: 11: 12: 52. Burton, 1963: 623, *Leuconia barbata*.

VIO DUVERNOYSII Duch., 1850; D. & M., 1864: 112, pl. XXV, 4.

No extant (type-) material.

VIOA DISSOCIATA Duch., 1850; D. & M., 1864: 112, pl. XXV, 5-6.

No extant (type-) material.

VIOA STROMBI D. & M., 1864: 113.

No extant type material.

EURYPHYLLE LATENS D. & M., 1864: 114, pl. XXV, 7-8.

No extant type material.

EURYPHYLLE DUBBIA D. & M., 1864: 114.

No extant type material.

REFERENCES

- BERGQUIST, P.R., 1980. A revision of the supra-specific classification of the orders Dictyoceratida, Dendroceratida and Verongida (class Demospongiae).— N. Z. J. Zool., 7: 443-503.
- BURTON, M., 1934. Sponges.— Sci. Repts. Great Barrier Reef Exped., 4 (14): 513-621.
- , 1963. A revision of the classification of the calcareous sponges: 693 pp. (Trustees British Museum (Natural History), London).
- & H.S. RAO, 1932. Report on the shallow water marine sponges in the collection of the Indian Museum.— Rec. Indian Mus., 34:

- 299-356.
 CARTER, H.J., 1876. Descriptions and figures of deep-sea sponges and their spicules from the Atlantic Ocean, dredged up on board H.M.S. "Porcupine" chiefly in 1869 (concluded).- *Annls Mag. nat. Hist.*, (4) 18: 226-240, 307-324, 388-410, 458-479, 5 pls.
 DUCHASSAING, P. de F., 1850. Animaux radiaires des Antilles: 33 pp., 2 pls. (Baillière & Fils, Paris).
 -----, 1870. Revue des zoophytes et des spongiaires des Antilles: 52 pp. (Masson & Fils, Paris).
 ----- & G. MICHELOTTI, 1864. Spongiaires de la mer Caraibe.- *Nat. Verh. Holl. Maatsch. Wetensch. Haarlem*, (2) 21 (3): 1-124, 25 pls.
 HARTMAN, W.D., 1967. Revision of Neofibularia (Porifera, Demospongia), a genus of toxic sponges from the West Indies and Australia.- *Postilla (Peabody Mus. nat. Hist.)*, 113: 1-41.
 LAUBENFELS, M.W. De, 1936. A discussion of the sponge fauna of the Dry Tortugas in particular, and the West Indies in general, with material for a revision of the families and orders of the Porifera.- *Carnegie Inst. Washington Publ.*, 467 (Papers Tortugas Lab., 30): i-iii, 1-225.
 -----, 1948. The order Keratosa of the phylum Porifera. A monographic study.- *Occ. Pap. Allan Hancock Found.*, 3: 1-217.
 -----, 1950. The Porifera of the Bermuda Archipelago.- *Trans. Zool. Soc. London*, 27: 1-154.
 PARENTI, U., et al., 1976 (?). *Cataloghi del Museo e Istituto di Zoologia sistematica dell' Universita di Torino (Italia)*. II. Tunicata, Porifera, Coelenterata. (no page numbers).
 SCHMIDT, O., 1870. Grundzüge einer Spongien-Fauna des Atlantischen Gebietes: i-iv, 1-88, 6 pls. (Engelmann, Leipzig).
 SOEST, R.W.M. van, 1978. Marine Sponges from Curacao and other Caribbean localities. Part I. Keratosa.- *Stud. Fauna Curacao Caribb. Isl.*, 56 (179): 1-94.
 -----, 1980. Marine Sponges from Curacao and other Caribbean localities. Part II. Haplosclerida.- *Stud. Fauna Curacao Caribb. Isl.*, 62 (191): 1-172.
 -----, 1984. Marine Sponges from Curacao and other Caribbean localities. Part III. Poecilosclerida.- *Stud. Fauna Curacao Caribb. Isl.* (in press).
 TOPSENT, E., 1932. Eponges de Lamarck conservées au Muséum de Paris.- *Arch. Mus. nation. Hist. nat. Paris*, (6) 5: 1-56.
 TORTONESE, E., 1962. Le collezione di Poriferi, Celenterati, ed Echinodermi del Museo di Storia Naturale di Genova, con elenchi del materiale tipico.- *Doriana*, 3 (125): 1-3.
 WIEDENMAYER, F., 1977. A monograph of the shallow water sponges of the Western Bahamas: 287 pp., 43 pls. (Birkhäuser Verlag, Basel & Stuttgart).

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Table I. Duchassaing & Michelotti published species names not represented by any type material.

<i>Evenor fuciformis</i>	<i>Polythereses marginalis</i>
<i>Spongia coelosia</i>	<i>Hyrtios vilis</i>
<i>Spongia utilis</i>	<i>Agelas dispar</i> var. a
<i>Spongia tubulifera</i> var. <i>osculata</i>	<i>Agelas rudis</i>
<i>Spongia tubulifera</i> var. <i>porosa</i>	<i>Agelas dilatata</i>
<i>Spongia subcircularis</i>	<i>Amphimedon dilatata</i>
<i>Spongia isidis</i>	<i>Amphimedon leprosa</i>
<i>Spongia bartholomei</i>	<i>Thalysias subtriangularis</i> var. <i>cyllindrica</i>
<i>Spongia haagensenii</i>	<i>Thalysias hians</i>
<i>Spongia dumetosa</i>	<i>Thalysias varians</i> var. <i>digitata</i>
<i>Spongia napiformis</i>	<i>Thalysias saxicava</i>
<i>Spongia guadelupensis</i>	<i>Phorbas viecquensis</i>
<i>Spongia krebbsii</i>	<i>Niphates thomasiana</i>
<i>Tuba conica</i>	<i>Arcesios prominula</i>
<i>Tuba lineata</i> var. <i>simplex</i>	<i>Arcesios porosa</i>
<i>Tuba longissima</i>	<i>Arcesios hostilis</i>
<i>Tuba sagoti</i>	<i>Terpios corallina</i>
<i>Callyspongia inflata</i>	<i>Terpios desbonii</i>
<i>Callyspongia tenerrima</i>	<i>Terpios niger</i>
<i>Luffaria picea</i>	<i>Tethya globum</i>
<i>Luffaria applicata</i>	<i>Vioa duvernoysii</i>
<i>Lithospongia torva</i>	<i>Vioa dissociata</i>
<i>Polythereses campana</i> var. <i>fixa</i>	<i>Vioa strombi</i>
<i>Polythereses tintinnabulum</i>	<i>Euryphylle latens</i>
<i>Polythereses tristis</i>	<i>Euryphylle dubbia</i>

Table II. Duchassaing & Michelotti published species names, still represented by type material, together with their current identification based on published opinions of their lecto-types, unless otherwise indicated.

<u>Duch. & Mich. published name</u>	<u>Current identification</u>
<i>Spongia barbara</i>	<i>Spongia barbara</i>
<i>Spongia cerebriiformis</i>	<i>Fasciospongia cerebriiformis</i>
<i>Spongia gossypina</i>	<i>Hippospongia gossypina</i>
<i>Spongia meandriiformis</i>	<i>Spongia barbara</i>
<i>Spongia lapidescens</i>	<i>Hippospongia gossypina</i>
<i>Spongia vermiculata</i>	<i>Spongia barbara</i>
<i>Spongia fenestrata</i>	<i>Smenospongia aurea</i> (Hyatt, 1875)
<i>Spongia discus</i>	<i>Spongia obliqua</i>
<i>Spongia complanata</i> Duch., 1850	<i>Amphimedon complanata</i>
<i>Spongia fusca</i>	<i>Amphimedon complanata</i>
<i>Spongia obliqua</i>	<i>Spongia obliqua</i>
<i>Spongia musicalis</i>	? <i>Coscinoderma musicalis</i> ¹⁾
<i>Spongia manus</i>	<i>Amphimedon complanata</i>
<i>Spongia marquezii</i>	<i>Teichaxinella marquezii</i>
<i>Spongia clavaherculis</i>	<i>Callyspongia vaginalis</i> (Lamarck, 1814)
<i>Tuba sanctaerucis</i>	<i>Callyspongia longissima</i>
<i>Tuba sororia</i>	<i>Callyspongia vaginalis</i> (Lam.)
<i>Tuba lineata</i>	<i>Callyspongia vaginalis</i> (Lam.)
<i>Tuba megastoma</i>	<i>Callyspongia vaginalis</i> (Lam.)
<i>Tuba armigera</i>	<i>Callyspongia armigera</i>
<i>Tuba digitalis</i> var. <i>villosa</i>	<i>Niphates digitalis</i> (Lam.)
<i>Tuba incerta</i>	<i>Niphates digitalis</i> (Lam.)
<i>Tuba pavonina</i>	<i>Niphates digitalis</i> (Lam.)
<i>Tuba crispa</i>	<i>Niphates digitalis</i> (Lam.)
<i>Tuba tortolensis</i>	<i>Callyspongia vaginalis</i> (Lam.)
<i>Tuba subnervia</i>	<i>Callyspongia vaginalis</i> (Lam.)
<i>Tuba irregularis</i>	<i>Callyspongia vaginalis</i> (Lam.)
<i>Callyspongia eschrichtii</i>	<i>Callyspongia eschrichtii</i>
<i>Callyspongia fallax</i>	<i>Callyspongia fallax</i>
<i>Luffaria sebæ</i>	<i>Aplysina lacunosa</i> (Pallas, 1766)

Duch. & Mich. published nameCurrent identification

<i>Luffaria rupicola</i>	<i>Spongia tubulifera</i> Lam.
<i>Luffaria nuciformis</i>	<i>Aplysina lacunosa</i> (Pallas)
<i>Luffaria insularis</i>	<i>Aplysina fistularis</i> (Pallas)
<i>Polytherses linguiformis</i>	<i>Ircinia strobilina</i> (Lam.)
<i>Polytherses armata</i>	<i>Ircinia felix</i>
<i>Polytherses ignobilis</i>	<i>Ircinia strobilina</i> (Lam.) ²⁾
<i>Polytherses longispina</i>	<i>Ircinia strobilina</i> (Lam.)
<i>Polytherses acuta</i>	<i>Ircinia strobilina</i> (Lam.)
<i>Polytherses felix</i>	<i>Ircinia felix</i>
<i>Polytherses capitata</i>	<i>Ircinia strobilina</i> (Lam.)
<i>Polytherses columnaris</i>	<i>Ircinia felix</i>
<i>Polytherses cylindrica</i>	<i>Ircinia strobilina</i> (Lam.)
<i>Hyrtios proteus</i>	<i>Hyrtios proteus</i>
<i>Hyrtios musciformis</i>	<i>Iotrochota birotulata</i> (Higgin, 1877)
<i>Agelas dispar</i>	<i>Agelas dispar</i>
<i>Agelas albolutea</i>	<i>Cribrochalina cf. vasculum</i> (Lam.)
<i>Amphimedon compressa</i>	<i>Amphimedon compressa</i> 3)
<i>Amphimedon arborescens</i>	<i>Amphimedon compressa</i> 3)
<i>Amphimedon arborescens</i> var. <i>ensiforme</i>	<i>Amphimedon compressa</i> 3)
<i>Amphimedon variabilis</i>	<i>Dysidea variabilis</i>
<i>Amphimedon ferox</i>	<i>Ectyoplasia ferox</i> 3)
<i>Amphimedon viridis</i>	<i>Amphimedon viridis</i> 3)
<i>Amphimedon nolitangere</i>	<i>Neofibularia nolitangere</i>
<i>Thalysias ignis</i>	<i>Tedania ignis</i>
<i>Thalysias proxima</i>	<i>Xestospongia proxima</i> 4)
<i>Thalysias rugosa</i>	<i>Xestospongia subtriangularis</i>
<i>Thalysias coccinea</i>	<i>Spirastrella coccinea</i>
<i>Thalysias subtriangularis</i> (Duch. 1850)	<i>Xestospongia subtriangulis</i>
<i>Thalysias subtriangularis</i> var. <i>lyrififormis</i>	<i>Xestospongia subtriangularis</i>
<i>Thalysias varians</i>	<i>Anthosigmella varians</i>
<i>Thalysias varians</i> var. <i>incrustans</i>	<i>Anthosigmella varians</i> 2)
<i>Pandaros arbusculum</i>	<i>Ptilocaulis arbusculum</i>
<i>Pandaros pennata</i>	<i>Echinodictyum pennatum</i>
<i>Pandaros lugubris</i>	<i>Echinodictyum lugubre</i>
<i>Pandaros acanthifolium</i>	<i>Pandaros acanthifolium</i>
<i>Pandaros walpersii</i>	<i>Ptilocaulis walpersi</i>
<i>Phorbas amaranthus</i>	<i>Phorbas amaranthus</i>
<i>Niphates erecta</i>	<i>Niphates erecta</i>
<i>Niphates venosa</i>	<i>Niphates erecta</i>
<i>Acamas laxissima</i>	<i>Mycale laxissima</i> 5)
<i>Acamas violacea</i>	<i>Hyrtios violacea</i> 5)
<i>Terpios aurantiaca</i>	<i>Terpios aurantiaca</i> 2)
<i>Terpios tenuis</i>	unrecognizable
<i>Terpios cladocerae</i>	unrecognizable
<i>Terpios janiae</i>	<i>Dysidea janiae</i>
<i>Terpios echinata</i>	unrecognizable
<i>Terpios fugax</i>	<i>Terpios fugax</i>
<i>Geodia cariboea</i>	<i>Geodia cariboea</i>
<i>Euryades notabilis</i>	<i>Igermella notabilis</i>
<i>Medon imberbis</i>	<i>Leucetta imberbis</i>
<i>Medon barbata</i>	<i>Leuconia barbata</i>

1) This might prove to be a *Smenospongia*.

2) Identity newly suggested here.

3) Nomenclature not generally accepted.

4) Wiedenmayer (1977) based his identification of this species as *Neofibularia proxima* on foreign spicules.5) According to Bergquist (1980) *Oligoceras* is a synonym of *Hyrtios*.

Table III. List of generic names authored by Duchassaing & Michelotti together with their type species.

<u>Genus</u>	<u>Type species</u>	<u>Designation by</u>
<i>Evenor</i>	<i>E. fuciformis</i>	monotypy
<i>Tuba</i>	<i>T. sororia</i>	Burton, 1934: 540
<i>Callyspongia</i>	<i>C. fallax</i>	Burton, 1934: 539
<i>Luffaria</i>	<i>L. sebae</i>	De Laubenfels, 1936: 26
<i>Lithospongia</i>	<i>L. torva</i>	monotypy
<i>Polytherses</i>	<i>P. linguiformis</i>	De Laubenfels, 1948: 131
<i>Hyrtilis</i>	<i>H. proteus</i>	De Laubenfels, 1936: 30
<i>Agelas</i>	<i>A. dispar</i>	Burton & Rao, 1932: 356
<i>Amphimedon</i>	<i>A. compressa</i>	De Laubenfels, 1936: 45
<i>Thalysias</i>	<i>Spongia subtriangularis</i> (Duch. 1850)	Carter, 1876: 311.
<i>Pandaros</i>	<i>P. acanthifolium</i>	De Laubenfels, 1936: 123
<i>Phorbas</i>	<i>P. amaranthus</i>	De Laubenfels, 1936: 63
<i>Niphates</i>	<i>N. erecta</i>	Wiedenmayer, 1977: 95
<i>Acamas</i> (preoccupied)	<i>A. laxissima</i>	De Laubenfels, 1936: 117
<i>Arcesios</i>	<i>A. prominula</i>	De Laubenfels, 1936: 59
<i>Terpios</i>	<i>T. fugax</i>	De Laubenfels, 1936: 152
<i>Euryades</i> (preoccupied)	<i>E. notabilis</i>	De Laubenfels, 1936: 30
<i>Medon</i> (preoccupied)	<i>M. barbata</i>	designation herein
<i>Euryphyllis</i>	<i>E. latens</i>	designation herein