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**Catalogue of
Extant Marine Porifera
Type Specimens in the
Zoological Survey of India**

J.G. PATNAYAK

ZOOLOGICAL SURVEY OF INDIA

OCCASIONAL PAPER NO. 307

**RECORDS OF THE
ZOOLOGICAL SURVEY OF INDIA**

**Catalogue of Extant Marine Porifera Type Specimens in
the Zoological Survey of India**

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**RECORDS OF THE
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INTRODUCTION

The Porifera Collection of the Zoological Survey of India is unique, as it is the largest Collection in Southeast Asia. The departmental Collection of porifera is the most comprehensive, developed over more than two centuries. The Collection serves as depository of primary type specimens for several Southeast Asian countries.

The marine porifera Collection present in the General Non-Chordata section, Zoological Survey of India, Calcutta includes type specimens of 142 species of recent marine Porifera. The marine porifera types in the Collection of Zoological Survey of India, Calcutta have great historical value had remained neglected for over a century. This is the first effort to prepare a catalogue of the marine porifera type holdings in the Zoological Survey of India, Calcutta. This catalogue includes type specimens of 20 species of Hexactinellida and 122 species of Demospongiae.

Pioneer naturalists who were associated with the porifera Collection and/or descriptions based on material present in the ZSI include Carter (1869a, 1869b, 1883, 1887), Vosmaer (1880, 1882, 1885), Schmidt (1880a, 1880b), Ridley (1884), Dendy (1889, 1905, 1922), Topsent (1892), Schulze (1894, 1895, 1902), Kirkpatrick (1902, 1903a, 1903b, 1907, 1908), Annandale (1911-1929), Kumar (1925), Dendy & Burton (1926), Arndt (1927), Burton (1928), Burton & Rao (1932), Rao (1941), Thomas (1968-1980), Pattanayak (2006). The specimens were Collected from all over southern Asia, and well beyond.

Type Collection of Zoological Survey of India is built up on three primary sources viz. inherited from the Indian Museum, obtained from its own surveys conducted by the scientists and naturalists of the department and donated/exchanged by different International Museums and scientists.

In this paper, the taxonomic sequence of classes, orders and families follow Hooper and Van Soest, (2002) and Van Soest, Boury-Esnault, Janussen and Hooper (2008). Genera and species are arranged alphabetically within each higher classification. The type specimens belonging to the categories of holotype, paratype, co-type, type, schizotype and part of type whichever mentioned in the type label are mentioned accordingly. For each type specimen, the original name, authority (with reference), registration number, nature of type (as mentioned in the label of the specimen), type locality, current systematic status, current name (when status is changed), Collector/donor and remarks are provided.

Phylum PORIFERA Grant, 1836

Class DEMOSPONGIAE Sollas, 1885

Subclass HOMOSCLEROMORPHA Bergquist, 1978

Order HOMOSCLEROPHORIDA Dendy,

Family PLAKINIDAE Schulze, 1880

Genus *Corticium* Schmidt, 1862

1. *Corticium acanthastrum* Thomas, 1968

(Plate I A)

Holotype; Regd. No. P3121/1 (CMFRI Regd. No. T 78/1); Locality : Palk Bay, 1.5 meters; Coll./Donor : P.A. Thomas; Date of Coll. : 06.iii.1966.

Reference : Thomas, P.A. 1968d. *Journal of the Marine Biological Association of India*, 10(2) : 260.

Remarks : Dry, Good.

Genus *Plakina* Schulze, 1880

2. *Plakina acantholopha* Thomas, 1970

(Plate I B)

Holotype; Regd. No. P3120/1 (CMFRI Regd. No. T 79/1); Locality : Palk Bay, coral reef; Coll./Donor : P.A. Thomas; Date of Coll. : 20.ii.1967.

Reference : Thomas, P.A. 1970a. *Journal of the Marine Biological Association of India*, 12(1-2) : 53.

Current status : *Placinolopha acantholopha* (Thomas, 1970), Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) 2002. *Systema Porifera*, p.78.

Remarks : Dry, Damaged.

Order SPIROPHORIDA Bergquist & Hogg, 1969

Family TETILLIDAE Sollas, 1886

Genus *Tetilla* Schmidt, 1868

3. *Tetilla dactyloidea* var. *lingua* Annandale, 1915

(Plate I C)

Type & Cotype; Regd. No. ZEV6580-81/7; Locality : Outer Channel, Chilka Lake; Coll./Donor : Chilka Survey; Date of Coll. : September, 1914.

Reference : Annandale, N. 1915a. *Memoirs of the Indian Museum*, 5 : 53, pl. 5, fig.4.

Current status : *Tetilla dactyloidea* (Carter, 1869), Pattanayak, J. G. 2006. *Records of the Zoological Survey of India, Occasional Paper No.*, 255 : 16.

Remarks : Wet, good.

Genus *Acanthocinachyra* Levi, 1964

4. *Acanthocinachyra seychellensis* Thomas, 1973

Holotype; Regd. No. P3129/1 (CMFRI Regd. No. T 77/1); **Locality** : Mahe Island, Seychelles; **Coll./Donor** : J. Bouillon; **Date of Coll.** 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale. Série in 8vo. Sciences zoologiques* (203) : 80.

Current status : *Acanthotetilla seychellensis* (Thomas, 1973), Van Soest, R.W.M. 1977. *Uitgaven van de Natuurwetenschappelijke Studiekring voor Suriname en de Nederlandse Antillen*. No. 89. *Studies on the Fauna of Curaçao and other Caribbean Islands*, 53 (172) : 1.

Remarks : Slide, Good; whole mount on a slide.

Order ASTROPHORIDA Sollas, 1888

Genus *Aurora* Sollas, 1888

5. *Aurora oxytoxa* Thomas, 1973

(Plate I D)

Holotype; Regd. No. P3126/1 (CMFRI Regd. No. T 76/1); **Locality** : Mahe Island, Seychelles; **Coll./Donor** : C.M.F.R.I.; **Date of Coll.** 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale. Série in 8vo. Sciences zoologiques*, (203) : 77.

Current status : *Rhabdastrella oxytoxa* (Thomas, 1973), Uriz, M.J. (2002). Uriz, M.J. 2002. Family Ancorinidae Schmidt, 1870. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.114.

Remarks : Dry, broken into small pieces.

Genus *Ecionemia* Bowerbank, 1862

6. *Ecionemia thielei* Thomas, 1980

(Plate I E)

Holotype; Regd. No. P3131/1 (CMFRI Regd. No. T 74/1); **Locality** : Minicoy Island; **Coll./Donor** : Ali Manikfan; **Date of Coll.** 06.iii.1965.

Reference : Thomas, P.A. 1980. *Journal of the Marine Biological Association of India*, **22**(1-2) : 15.

Remarks : Dry, Good.

Genus *Jaspis* Gray, 1867

7. *Jaspis bouilloni* Thomas, 1973

(Plate I F)

Holotype; Regd. No. P3128/1 (CMFRI Regd. No. T 73/1); Locality : Mahe Island, Seychelles; Coll./Donor : J. Bouillon, C.M.F.R.I.; Date of Coll. 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale. Série in 8vo. Sciences zoologiques* (203) : 65.

Current status : *Hemiassterella bouilloni* (Thomas, 1973), Van Soest, R.W.M., Beglinger, E.J. 2008. *Zoölogische Mededelingen Leiden*, **82** (53) : 749.

Remarks : Dry, Damaged.

8. *Jaspis jonesi* Thomas, 1973

Holotype; Regd. No. P3130/1 (CMFRI Regd. No. T 72/1); Locality : Mahe Island, Seychelles; Coll./Donor : Prof. J. Bouillon, C.M.F.R.I.; Date of Coll. 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale. Série in 8vo. Sciences zoologiques*, (203) : 66.

Current status : *Stelletta jonesi* (Thomas, 1973), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : whole mount on a slide.

Genus *Stelletta* Schmidt, 1862

9. *Stelletta clavosa* Ridley, 1884

(Plate II A & B)

Type; Regd. No. P246/1; Locality : Off Cinque Island, Andamans, 201-219 m (110-120 fms) Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 08.xii.1887.

Reference : Ridley, S.O. 1884b. *Annals and magazine of Natural History*, (5) **14**(81) : 183.

Remarks : Wet, Good.

10. *Stelletta cylindrica* Thomas, 1973

(Plate II C)

Holotype; Regd. No. P3127/1 (CMFRI Regd. No. T 75/1); Locality : Mahe Island, Seychelles; Coll./Donor : Prof. J. Bouillon, C.M.F.R.I; Date of Coll. 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale. Série in 8vo. Sciences zoologiques, (203) : 76.*

Remarks : Dry, Good.

11. *Stelletta bocki* Rao, 1941

(Plate II D)

Type; Regd. No. P1830/1; Locality : Trincomalee, Ceylon, 15 m (8 fms); Coll./Donor : Rijks Museum.

Reference : Rao, H.S. 1941. *Records of the Indian Museum, 43 : 419.*

Remarks : Wet, Good.

12. *Stelletta fortis* Vosmaer, 1885

(Plate II E)

Schizotype; Regd. No. P611/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881); Coll./Donor : Zool. Mus. Amsterdam.

Reference : Vosmaer, G.C.J. 1885. *Bijdragen tot de Dierkunde 12 (3) : 6.*

Current status : *Stryphnus fortis* (Vosmaer, 1885), Van Soest, R.W.M. (2001). *Porifera. In : Costello, M.J. et al. (Ed.) (2001). European register of marine species : a check-list of the marine species in Europe and a bibliography of guides to their identification. Collection Patrimoines Naturels, 50 : 85.*

Remarks : Wet, Good.

13. *Stelletta horrens* Kirkpatrick, 1902

(Plate II F)

Type; Regd. No. ZEV6494/7; Locality : Duruford Point, Natal, S. Africa; Coll./Donor : British Museum.

Reference : Kirkpatrick, R. 1902. *Marine Investigations in South Africa, 1 : 219.*

Remarks : Dry, Good.

14. *Stelletta longicladus* Dendy & Burton, 1926

(Plate III A)

Type; Regd. No. P245/1; Locality : Sta. 217, Lat. 6° 56' 56" N, Long. 72° 53' 30" E. Arabian Sea, 839 m (459 fms); Coll./Donor : R.I.M.S. "Investigator", Date of Coll.: 21.x.1896.

Reference : Dendy, A.; Burton, M. 1926. *Records of the Indian Museum*, 28 (4) : 244, text fig. 7.

Remarks : Wet, Good.

15. *Stelletta trichotriaena* Dendy and Burton, 1926

(Plate III B)

Type; Regd. No. P243/1; Locality : Andamans, 496 m (271 fms); Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. : 02.i.1887.

Reference : Dendy, A. and Burton, M. 1926. *Records of the Indian Museum*, 28(4) : 241, text fig. 6.

Remarks : Wet, Good.

Family GEODIIDAE, Gray, 1867

Genus *Cydonium* Fleming, 1828

16. *Cydonium arabicum* Carter, 1869

(Plate III C)

Type; Regd. No. ZEV6499/7; Locality : East coast of Arabia; Coll./Donor : British Museum (Exchange).

Reference : Carter, H.J. 1869b. *Annals and Magazine of Natural History*, (4) 4 : 4, pl. I, figs 9-16.

Current status : *Geodia arabicum* (Carter, 1869), Uriz, M.J. (2002). Family Ancorinidae Schmidt, 1870. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 134.

Remarks : Dry, Good.

Family PACHASTRELLIDAE Carter, 1875

Genus *Thenea* Gray, 1867

17. *Thenea andamanensis* Dendy and Burton, 1926

(Plate III D)

Type; Regd. No. P239/1; Locality : Sta. 234, 911 m (498 fms), Lat. 13°15' 30" N, Long. 93° 26' E; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. : 21.xii.1897.

Reference : Dendy, A. and Burton, M. 1926. *Records of the Indian Museum*, **28** (4) : 235, fig. 4.

Remarks : Wet, Good.

18. *Thenea corallophila* Dendy & Burton, 1926
(Plate III E&F)

Type; Regd. No. P238/1 and ZEV2142/7; **Locality** : S.W. of Ceylon, Lat. 6°31' N, Long. 79° 38' 45" E; 733 m (401fms); **Coll./Donor** : R.I.M.S. "Investigator"; **Date of Coll.** : 19.iv.1904.

Reference: Dendy, A. and Burton, M. 1926. *Records of the Indian Museum*, **28**(4) : 232, text fig. 3.

Remarks : Wet, Good; two registration numbers in two bottles, one specimen in bottle of Regn. No. P238/1 and 20 pieces attached on corals in bottle of Regn. No. ZEV2142/7.

Family PACHASTRELLIDAE Carter, 1875

Genus *Pachastrella* Schmidt, 1868

19. *Pachastrella compressa* Bowerbank, 1866
(Plate IV A&B)

Type; Regd. No. P538/1; **Locality** : Gulf of Cuma; **Coll./Donor** : Rijks Mus. Van Nat. Hist. te Leiden.

Reference : Bowerbank, J.S. 1866. *A Monograph of the British Spongiadae*, Volume 2. (Ray Society : London) : 55.

Current status : *Poecillastra compressa* (Bowerbank, 1866)), Lévi, C. (1967). *Trans. R. Soc. S. Afr.*, **37** : 227, pls XVII-XIX.

Remarks : Wet, Good.

Genus *Poecillastra* Sollas, 1888

20. *Poecillastra eccentrica* Dendy & Burton, 1926
(Plate IV C)

Type; Regd. No. P240/1; **Locality** : Andamans, Between North and South Sentinel Islands, 402-439 m (220-240 fms), Sta. 56; **Coll./Donor** : "R.I.M.S. Investigator"; **Date of Coll.** : 25.iv.1889.

Reference : Dendy, A. & Burton, M. 1926. *Records of the Indian Museum*, **28(4)** : 238, text fig. 5.

Remarks : Wet, Good.

Order HADROMERIDA Topsent

Family CLIONAIDAE D'Orbigny, 1851

Genus *Cliona* Grant, 1826

21. *Cliona acustella* Annandale, 1915

(Plate IV D)

Type; Regd. No. ZEV6415/7; Locality : Ganjam coast, Madras Presidency; Coll./Donor: Bengal Fisheries (Golden Crown).

Reference : Annandale, N. 1915b. *Records of the Indian Museum*, **11(1)** : 14, pl. I.

Current status : *Spiroxya acustella* (Annandale, 1915), Rützler, K. 2002. Family Alaectonidae, Rosell, 1996. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*. p. 289.

Remarks : Dry, Good, boring into five pieces of shells.

22. *Cliona annulifera* Annandale, 1915

(Plate IV E)

Type; Regd. No. ZEV6424/7; Locality : Off Ceylon, Arabian Sea, Lat. 10° 47' 45" N, Long. 72° 40' 20" E, 1285 m (703 fms); Coll./Donor : "R.I.M.S. Investigator"; Date of Coll. : 21.xi.1891.

Reference : Annandale, N. 1915b. *Records of the Indian Museum*, **11(1)** : 9, pl. I.

Remarks : Wet, Good, sponge bioeroding a gastropod shell.

23. *Cliona kemp* Annandale, 1915

Type; Regd. No. ZEV6956/7; Locality : Port Blair, Andamans; Coll./Donor : S.W. Kemp; Date of Coll.. 02.iii.1907.

Reference : Annandale, N. 1915c. *Records of the Indian Museum*, **11(6)** : 462.

Remarks : Slide, Good.

Genus *Thoosa* Hancock, 184924. *Thoosa investigatoris* Annandale, 1915

(Plate IV F)

Type; Regd. No. ZEV6425/7; Locality : Off Ceylon, Arabian Sea, Lat. 10° 47' 45" N, Long. 72° 40' 20" E, 1285.65 m (703 fms); Coll./Donor : R.I.M.S."Investigator"; Date of Coll. : 21.xi.1891.

Reference : Annandale, N. 1915b. *Records of the Indian Museum*, 11 (1) : 18, pl. I.

Current status : *Cliothosa investigatoris* (Annandale, 1915), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good, sponge bioeroding fragments of shell.

Family POLYMASTIIDAE Gray, 1867

Genus *Polymastia* Bowerbank, 186425. *Polymastia capitata* Vosmaer, 1885

(Plate V A)

Schizotype; Regd. No. P628/1; Locality : 72° 14' 8" N 22°30'9" E, Barents Sea, 297 m ('Willem Barents' Expedition 1880 and 1881, Sta.9); Coll./Donor : Zool. Mus. Amsterdam.

Reference : Vosmaer, G.C.J. 1885. *Bijdragen tot de Dierkunde*, 12(3) : 16, pls I-V.

Current status : *Sphaerotylus capitatus* (Vosmaer, 1885), Boury-Esnault, N. 2002. Family Polymastiidae Gray, 1867. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*. p.205.

Remarks : Wet, Good.

Family SPIRASTRELLIDAE Ridley & Dendy, 1886

Genus *Spirastrella* Schmidt, 186826. *Spirastrella andamanensis* Pattanayak, 2006

(Plate V B)

Holotype; Regd. No. P3480/1; Locality : Mayabandar, North Andaman; Coll./Donor : G.C. Ghosh; Date of Coll. 19.i.1992.

Reference : Pattanayak, J.G. 2006. *Records of the Zoological Survey of India, Occ. Paper No., 255* : 36.

Remarks : Wet, Good.

Family SUBERITIDAE Schmidt, 1870

Genus *Laxosuberites* Topsent, 1896

27. *Laxosuberites aquaedulicioris* Annandale, 1914

(Plate V C)

Type; Regd. No. ZEV6039/7; Locality : Manikpatna, Chilka lake, Orissa; Coll./Donor : N. Annandale; Date of Coll. 16.ix.1913.

Reference : Annandale, N., 1914, *Records of the Indian Museum*, **10** : 157.

Current status : *Hymeniacidon aquaedulicioris* (Annandale, 1914), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good, two fragments of shells both with thin encrusting sponges.

28. *Laxosuberites lacustris* Annandale, 1915

(Plate V E)

Type; Regd. No. ZEV6442/7; Locality : Lake Chilka, Orissa; Coll./Donor : Chilka Survey; Date of Coll. 20.vii.1914.

Reference : Annandale, N., 1915a, *Memoirs of the Indian Museum*, **5** : 45, pl. 5, fig. 2-3.

Current status : *Hymeniacidon lacustris* (Annandale, 1915), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good, thin encrusting, fragments of it occur on 5 pieces of rock.

29. *Laxosuberites lacustris* form *Coll.aris* Annandale, 1924

(Plate V D)

Type; Regd. No. E129/1; Locality : Verlatin Island, Malay Archipelago; Coll./Donor : K.W. Dammerman.

Reference : Annandale, N., 1924, *Treubia Batavia*, **5** : 403, fig. 1.

Current status : *Hymeniacidon lacustris* form *Collaris* (Annandale, 1924), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

Family TETHYIDAE Gray, 1848

Genus *Tethya* Lamarck, 181430. *Tethya merguiensis* Carter, 1883

(Plate V F)

Type; Regd. No. 8846/6; Locality : Mergui Archipelago; Coll./Donor : Museum Collection.

Reference : Carter, H.J. 1883. *Annals and Magazine of Natural History*, (5) 11 (65) : 344.

Current status : *Paratetilla bacca* (Selenka, 1867), Van Soest, R.W.M.; Rützler, K. 2002. Family Tetillidae Sollas, 1886. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 95.

Remarks : Wet, Good, small part of the specimen.

Genus *Donatia*, Nardo, 183331. *Donatia andamanensis* Dendy and Burton, 1926

(Plate VI A)

Type; Regd. No. P224/1; Locality : Off Port Blair, Andamans, 204 m (112 fms); Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. : 29.xi.1888.

Reference : Dendy, A.; Burton, M. 1926. *Records of the Indian Museum*, 28(4) : 248.

Current status : *Tethya andamanensis* (Dendy and Burton, 1926), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 248.

Remarks : Wet, Good.

Order CHONDROSIDA Boury-Esnault & Lopès, 1985

Family CHONDRILLIDAE Gray, 1872

Genus *Chondrilla* Schmidt, 186232. *Chondrilla kilakaria* Kumar, 1925

(Plate VI B)

Type; Regd. No. P193/1; Locality : Kilakaria, Ramnad Dist. (from coral reef); Coll./Donor : S.W. Kemp; Date of Coll.. 12.ii.1913.

Reference : Kumar, A., 1925. *Records of the Indian Museum*, 27 : 214.

Remarks : Dry, Good.

Family THEONELLIDAE Lendenfeld, 1903

Genus *Discodermia* du Bocage, 1869

33. *Discodermia gorgonoides* Burton, 1928

(Plate VI C)

Type; Regd. No. P281/1; Locality : 12.87 km (8 miles) west of Interview Island, Andamans, 82 m-493 m (45-270 fms); Coll./Donor : R.I.M.S."Investigator"

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30** : 109, pl. 1&2.

Remarks : Wet, Good.

34. *Discodermia interspersa* Kumar, 1925

(Plate VI D)

Type; Regd. No. P194/1; Locality : Ganjam coast, Orissa, 43-54 m (24-30 fms.); Coll./Donor : Bengal Fisheries (Golden Crown).

Reference : Kumar, A., 1925. *Records of the Indian Museum*, Calcutta, **27** : 215.

Remarks : Wet, Good, two specimens.

Genus *Racodiscula* Zittel, 1878

35. *Racodiscula sceptrellifera* var *siliquariae* Annandale, 1911

(Plate VI E)

Type; Regd. No. ZEV4652/7; Locality : Off Gopalpur, 36-54 m (20-30 fms), Ganjam coast, Orissa; Coll./Donor : Bengal Fisheries (Golden Crown).

Reference : Annandale, N., 1911, *Records of the Indian Museum*, **6** : 53, pl. 9.

Remarks : Dry, Good.

36. *Racodiscula sceptrellifera* var. *spiroglyphi* Annandale, 1911

(Plate VI F)

Type; Regd. No. ZEV4651/7; Locality : Off Gopalpur, 36-54 m (20-30 fms), Ganjam coast, Orissa; Coll./Donor : Bengal Fisheries (*Golden Crown*).

Reference : Annandale, N., 1911, *Records of the Indian Museum*, **6** : 52, pl. 8-9.

Remarks : Dry, Good.

Genus *Theonella* Gray, 186837. *Theonella cupola* Burton, 1928

(Plate VII A)

Type; Regd. No. P285/1; Locality : Off Kiltan Is., Laccadives 36-54 m (20-30 fms), Coll./Donor : R.I.M.S. "Investigator"

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30** : 110, fig. 7.

Remarks : Wet, Good.

Order LITHISTIDA Zittel, 1878

Family SIPHONIDIIDAE Lendenfeld, 1903

Genus *Siphonidiella* Burton, 192838. *Siphonidiella dendyi* Burton, 1928

(Plate VII B)

Type; Regd. No. P288/1; Locality : Mergui Archipelago, 13°4'30" N 96° 44' E, 118 m (65 fms), Sta. 535; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. : 17.iv.1913.

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30** : 112.

Current status : *Siphonidium dendyi* (Burton, 1928), Hooper, J.N.A., Van Soest, R.W.M.(Ed.) (2002). *Systema porifera : a guide to the classification of sponges*. p. 341.

Remarks : Wet, Good.

Order POECILOSCILOSCLERIDA Topsent

Suborder MICROCIONINA Hajdu, Van Soest & Hooper

Family ACARNIDAE Dendy, 1922

Genus *Acarnas* Gray, 186739. *Acarnas topsenti* Dendy, 1922

(Plate VII C)

Type; Regd. No. P683/1; Locality : Gasper straits (Gardiner's Coll.); Coll./Donor : British Museum.

Reference : Dendy, A., 1922. *Transactions of the Linnaean Society of London*, (2), **18** (1) : 98, pl. IV, fig. 3.

Remarks : Wet, Good.

Family MICROCIONIDAE Carter, 1875

Subfamily OPHLITASPONGIINAE De Laubenfels,

Genus *Artemisina* Vosmaer, 188540. *Artemisina suberitoides* Vosmaer, 1885

(Plate VII D)

Schizotype; Regd. No. P548/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, sta. 8); Coll./Donor : Zoological Museum, Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde*, 12(3) : 25, pl. 5.

Current status : *Artemisina arcigera* (Schmidt, 1870), Hooper, J.N.A, 2002. Family Microcionidae Carter, 1875. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 464.

Remarks : Wet, Good.

Genus *Qasimella* Thomas, 197441. *Qasimella indica* Thomas, 1974

Holotype; Regd. No. P3123/1 (CMFRI Regd. No T84/1); Locality : Gulf of Mannar, Tamil Nadu; Coll./Donor : C.M.F.R.I.

Reference : Thomas, P.A. 1974. *Journal of the Marine Biological Association of India*, 16(1) : 311.

Current status : *Artemisina indica* (Thomas, 1974), Hooper, J.N.A, 2002. Family Microcionidae Carter, 1875. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 463.

Remarks : Slide, Good, material on the slide.

Subfamily MICROCIONINAE Carter, 1875

Genus *Aulenella* Burton & Rao, 193242. *Aulenella foraminifera* Burton & Rao, 1932

(Plate VII E)

Type; Regd. No. P1167/1; Locality : Gasper straits; Coll./Donor : T.S. Gardiner.

Reference : Burton, M. and Srinivasa Rao, H., 1932. *Records of the Indian Museum*, 34 : 345, pl.18, fig.11.

Current status : *Clathria (Wilsonella) foraminifera* (Burton & Rao, 1932), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

Genus *Clathria* Schmidt, 1862

43. *Clathria elegans* Vosmaer, 1880
(Plate VII F)

Schizotype; Regd. No. P572/1; Locality : North America; Coll./Donor : Rijks Mus. Van Nat. Hist. te Leiden.

Reference : Vosmaer, G.C.J., 1880. *Notes from the Leyden Museum*, 2 : 99.

Current status : *Clathria (Clathria) elegans* Vosmaer, 1880, Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.437.

Remarks : Dry, Good, very small.

44. *Clatharia encrusta* Kumar, 1925
(Plate VIII A)

Type; Regd. No. P196/1; Locality : Orissa coast, 37m (20 fms); Coll./Donor : Bengal Fisheries (Golden Crown).

Reference : Kumar, A., 1925. *Records of the Indian Museum*, 27 : 221, fig. 4.

Current status : *Clathria (Clathria) encrusta* (Kumar, 1925), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 437.

Remarks : Wet, Good, encrustation over a bivalve shell.

Genus *Dendrocia* Hallmann, 1920

45. *Dendrocia antyaja* Burton & Rao, 1932
(Plate VIII B)

Holotype; Regd. No. P1168/1; Locality : Pearl Oyster Banks, Tuticorin, Gulf of Mannar; Coll./Donor : H. S. Rao; Date of Coll.. February, 1926.

Reference : Burton, M. and Srinivasa Rao, H., 1932. *Records of the Indian Museum*, 34 : 348, pl. 18, fig. 12.

Current status : *Clathria (Dendrocia) antyaja* (Burton & Rao, 1932), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.442.

Remarks : Wet, Good, encrusting.

Genus *Microciona* Bowerbank, 1862

46. *Microciona aceratoobtusa*, Carter, 1887
(Plate VIII C)

Type; Regd. No. 8834/6; Locality : Mergui Archipelago, Coll./Donor : J. Anderson (Mergui Expedition).

Reference : Carter, H.J., 1887. *Journal of the Linnean Society. Zoology*, **21** (127-128) : 67, pl.V, fig.7-10.

Current status : *Clathria (Microciona) aceratoobtusa* (Carter, 1887), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.440.

Remarks : Wet, Good.

Genus *Thalysias* Duchassaing & Michelotti, 1864

47. *Thalysias tenera* Carter, 1887
(Plate VIII D)

Type; Regd. No. 8840/6; Locality : King's Island, Mergui Archipelago; Coll./Donor : Mergui Expedition.

Reference : Carter, H.J. 1887. *Journal of the Linnean Society. Zoology*, **21**(127-128) : 70.

Current status : *Neopetrosia tenera* (Carter, 1887), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

Family RASPAILIIDAE Hentschel, 1923

Subfamily RASPAILIINAE Nardo, 1833

Genus *Dictyocylindrus* Bowerbank, 1862

48. *Dictyocylindrus aceratus* Carter, 1887
(Plate VIII E)

Type; Regd. No. ZEV1716/7; Locality : King's Island, Mergui Archipelago; Coll./Donor : Mergui Expedition.

Reference : Carter, H.J., 1887. *Journal of the Linnean Society. Zoology*, 21(127-128) : 67, pl. V, fig.3-6.

Current status : *Raspailia (Clathriodendron) acerata* (Carter, 1887), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.475.

Remarks : Wet, Good.

Genus *Protoraspailia* Burton & Rao, 1932

49. *Protoraspailia cactoides* Burton and Rao, 1932

(Plate VIII F)

Holotype; Regd. No. P789/1; Locality : Round Island; Coll./Donor : R.I.M.S. "Investigator"

Reference : Burton, M. and Srinivasa Rao, H., 1932. *Records of the Indian Museum*, 34 : 343, pl. 18, fig.10.

Current status : *Eurypon cactoides* (Burton & Rao, 1932), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.488.

Remarks : Wet, Good, four fragments of sponge.

Genus *Raspailia* Nardo, 1833

50. *Raspailia anastomosa* Kumar, 1925

(Plate IX A)

Type; Regd. No. P197/1; Locality : Ganjam coast, Orissa, 44-54 m (24-30 fms); Coll./Donor : Bengal Fisheries (Golden Crown); Date of Coll. 08-16.iii.1909.

Reference : Kumar, A., 1925. *Records of the Indian Museum*, 27 : 223.

Current status : *Raspailia (Raspailia) anastomosa* (Kumar, 1925), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.473.

Remarks : Wet, Good.

51. *Raspailia fruticosa* var. *tenuiramosa* Dendy, 1905

(Plate IX B)

Type; Regd. No. ZEV6465/7; Locality : Ceylon; Coll./Donor : British Museum (Exchange).

Reference : Dendy, A., 1905. *Report to the Government of Ceylon on the Pearl Oyster Fisheries of the Gulf of Mannar*, Royal Society, London, suppl., 3(18) : 172.

Current status : *Endectyon (Endectyon) fruticosu tenuiramosa* (Dendy, 1905), Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 485.

Remarks : Dry, Good.

Genus *Syringella* Schmidt, 1868

52. *Syringella gorgonoides* Kirkpatrick, 1903
(Plate IX C)

Schizotype; Regd. No. ZEV6486/7; Locality : East London coast, South Africa; Coll./Donor : British Museum (Exchange).

Reference : Kirkpatrick, R., 1903b. *Marine Investigations in South Africa*, 2 (14) : 244, pl. V, fig. 11a-b.

Current status : *Endectyon gorgonoides* (Kirkpatrick, 1903), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Dry, Good.

Subfamily ECHINODICTYINAE Hooper and Van Soest, 2002

Genus *Echinodictyum* Ridley, 1881

53. *Echinodictyum longistylum* Thomas, 1968
(Plate IX D)

Holotype; Regd. No. P3118/1 (CMFRI Regd. No. T. 67/1). Locality : Palk Bay, Tamil Nadu (washed ashore); Coll./Donor : C.M.F.R.I.; Date of Coll. 20.x.1964.

Reference : Thomas, P.A., 1968a. *Journal of the Marine Biological Association of India*, 10 (2) : 246.

Remarks : Dry, Good.

Family RHABDEREMIIDAE Topsent, 1928

Genus *Rhabderemia* Topsent, 1890

54. *Rhabderemia acanthostyla* Thomas, 1968
(Plate IX E)

Holotype; Regd. No. P3119/1 (C.M.F.R.I. Regd. No. T.68/1); Locality : Gulf of Mannar (Galaxea reef); Coll./Donor : C.M.F.R.I. Date of Coll. 26.ii.1967.

Reference : Thomas, P.A., 1968a. *Journal of the Marine Biological Association of India*, 10(2) : 247.

Remarks : Dry, Good, encrusting.

Suborder MYXILLINA Hajdu, Van Soest & Hooper

Family COELOSPHAERIDAE, Dendy, 1922

Genus *Ectyodoryx* Lundback, 1909

55. *Ectyodoryx lissostyla* Thomas, 1970

(Plate IX F)

Holotype; Regd. No. P3115/1 (C.M.F.R.I. Regd. No. T.81/1); Locality : Gulf of Mannar, Trawl net, 183 m (100 fms). Coll./Donor : M. V. "Klaus Sunnana", C.M.F.R.I. Date of Coll. March, 1970.

Reference : Thomas, P.A. 1970b. *Journal of the Marine Biological Association of India*, 12(1-2) : 203.

Current status : *Lissodendoryx (Ectyodoryx) lissostyla* (Thomas, 1970), Van Soest, R.W.M. 2002. Family Coelosphaeridae Dendy, 1922. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 544.

Remarks : Dry, Good, specimen is encrusting on a crab carapace.

Genus *Histoderma* Carter, 1874

56. *Histoderma encrusta* Kumar, 1925

(Plate X A)

Type; Regd. No. P195/1; Locality : Kilakarai, Ramnad District, Tamil Nadu (from coral reef); Coll./Donor : S.W. Kemp; Date of Coll.. 18.ii.1913.

Reference : Kumar, A., 1925. *Records of the Indian Museum*, 27 : 220, fig. 3.

Current status : *Coelosphaera encrusta* (Kumar, 1925), Van Soest, R.W.M. 2002. Family Coelosphaeridae Dendy, 1922. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 529.

Remarks : Wet, Good.

Genus *Lissodendoryx* Topsent, 189257. *Lissodendoryx balanophilus* Annandale, 1914

(Plate X B)

Type; Regd. No. ZEV6070/7; Locality : Madras Harbour, 1.2-1.8 m (4-6 ft), Coll./Donor : N. Annandale; Date of Coll. October, 1913.

Reference : Annandale, N., 1914. *Records of the Indian Museum*, **10** : 155.

Current status : *Lissodendoryx (Lissodendoryx) balanophilus* Annandale, 1914, Van Soest, R.W.M. 2002. Family Coelosphaeridae Dendy, 1922. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 540.

Remarks : Wet, Good, specimen encrusting mollusc shell with barnacles attached.

Family CRAMBEIDAE Levi, 1963

Genus *Ectyobatzella* Burton & Rao, 193258. *Ectyobatzella enigmatica* Burton & Rao, 1932

(Plate X C)

Holotype; Regd. No. P1170/1; Locality : Nicobars; Coll./Donor : J. Wood-Mason.

Reference : Burton, M. & Rao, H. S., 1932. *Records of the Indian Museum*, **34** : 332, pl. 18, fig. 6.

Current status : *Monanchora enigmatica* (Burton & Rao, 1932), Van Soest, R.W.M. 2002. Family Crambeidae Levi, 1963. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 553.

Remarks : Wet, Good, thickly encrusting sand fragments.

Family HYMEDESMIIDAE Topsent, 1928

Genus *Anchinoe* Gray, 186759. *Anchinoe dubia* Burton, 1928

(Plate X D)

Type; Regd. No. P312/1; Locality : Sta. 464, South of Ceylon, Lat. 60° 2' 30" N., Long. 81° 22' E., 95-124 m (52-68 fms.); Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 22.iv.1912.

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30** : 125.

Current status : *Phorbas dubia* (Burton, 1928), Van Soest, R.W.M. 2002. Family Hymedesmiidae Topsent, 1928. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 585.

Remarks : Wet, Good.

Genus *Hymedesmia* Bowerbank, 1864

60. *Hymedesmia mannarensis* Thomas, 1970

(Plate X E)

Holotype; Regd. No. P3113/1 (C.M.F.R. Regd. No. T83/1); Locality : Gulf of Mannar, trawl net, 183m (100 fathoms); Coll./Donor : "M.V. Claus Sunnana" C.M.F.R.I.; Date of Coll.. March, 1970.

Reference : Thomas, P.A., 1970b. *Journal of the Marine Biological Association of India*, 12(1&2) : 206.

Current status : *Hymedesmia (Hymedesmia) mannarensis* Thomas, 1970, Van Soest, R.W.M. 2002. Family Hymedesmiidae Topsent, 1928. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 581.

Remarks : Dry, Good, very thin encrusting on two pieces of coral.

61. *Hymedesmia parvispicula* Burton & Rao, 1932

(Plate X F)

Holotype; Regd. No. P1171/1 Locality : Mergui Archipelago; Coll./Donor : R.I.M.S. "Investigator"

Reference : Burton, M. & Rao, H.S., 1932. *Records of the Indian Museum*, 34 : 351.

Current status : *Hymedesmia (Hymedesmia) parvispicula* Burton & Rao, 1932, Van Soest, R.W.M. 2002. Family Hymedesmiidae Topsent, 1928. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.581.

Remarks : Wet, Good, encrusting over a piece of coral.

62. *Hymedesmia stylophora* Thomas, 1970

(Plate XI A)

Holotype; Regd. No. P3114/1 (C.M.F.R.I. Regd. No. T. 82/1); Locality : Gulf of Mannar, trawl net, 183m (100 fathoms); Coll./Donor : "M.V. Sunnana" C.M.F.R.I.; Date of Coll. March, 1970.

Reference : Thomas, P.A., 1970b. *Journal of the Marine Biological Association of India*, **12**(1&2) : 204.

Current status : *Hymedesmia (Hymedesmia) stylophora* Thomas, 1970, Van Soest, R.W.M. 2002. Family Hymedesmiidae Topsent, 1928. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.581.

Remarks : Dry, Good, encrusting over coral.

Genus *Kirkpatrickia* Topsent, 1912

63. *Kirkpatrickia spiculophila* Burton & Rao, 1932

Holotype; Regd. No. P786/1; Locality : Port Blair, Andamans; Coll./Donor : G.H. Booly; Date of Coll.. 03.iv.1890.

Reference : Burton, M. & Rao, H.S., 1932. *Records of the Indian Museum*, **34** : 332, pl. 18, figs. 5, 5a.

Remarks : Damaged, It has deteriorated and consists of a single long spicule which appears to be strongylote and is 9 cm long and a film of material in the base of the jar.

Family MYXILLIDAE Dendy, 1922

Genus *Damiriopsis* Burton, 1928

64. *Damiriopsis brondstedii* Burton, 1928

(Plate XI B)

Type; Regd. No. P310/1; Locality : Andamans, 238-531 m (130-290 fms); Coll./Donor : R.I.M.S. "Investigator"

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30** : 124, pl. 1, fig. 3 & 4.

Remarks : Wet, Good.

Genus *Myxilla*, Schmidt, 1862

65. *Myxilla barentsi* Vosmaer, 1885

(Plate XI C)

Schizotype; Regd. No. P627/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881), Coll./Donor : Natural History Museum, Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde*, **12**(3) : 27, pls. I.

Current status : *Myxilla (Myxilla) barentsi* Vosmaer, 1885, Van Soest, R.W.M. 2002. Family Myxillidae Dendy, 1922. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 611.

Remarks : Wet, Good.

Suborder MYCALINA Van Soest & Hooper, 1994

Family DESMACELLIDAE Ridley & Dendy, 1886

Genus *Biemna* Gray, 1867

66. *Biemna liposigma* Burton, 1928

(Plate XI D)

Type; Regd. No. P307/1; Locality : Andamans Sea, 495 m (271 fms); Coll./Donor : R.I.M.S. "Investigator"

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30** : 120.

Remarks : Wet, Good, very small.

67. *Biemna variantia* var. *seychellensis* Thomas, 1973

(Plate XI E)

Holotype; Regd. No. P3124/1 (CMFRI Regd. No. T80/1); Locality : Mahe Island, Seychelles; Coll./Donor : C.M.F.R.I.; Date of Coll. 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale. Série in 8vo. Sciences zoologiques*, (203) : 45.

Current status : *Biemna seychellensis* (Thomas, 1973), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Dry, Good.

Genus *Sigmaxinella* Dendy, 1897

68. *Sigmaxinella arborea* Kirkpatrick, 1903

(Plate XII A)

Type; Regd. No. ZEV6477/7; Locality : East London coast, South Africa; Coll./Donor : British Museum (Exchange).

Reference : Kirkpatrick, R., 1903b. *Marine Investigations in South Africa* 2(14) : 246, pl. V, VI, fig. 13, 14a-c.

Remarks : Dry, Good.

Family HAMACANTHIDAE Gray, 1872

Genus *Hamacantha* Gray, 1867

69. *Hamacantha papillata* Vosmaer, 1885

(Plate XII B)

Schizotype; Regd. No. P622/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, Sta. 4); Coll./Donor : Zoological Museum, Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde.*, Amsterdam, 12 : 28.

Current status : *Hamacantha (Hamacantha) papillata* Vosmaer, 1885, Van Soest, R.W.M.(2001). *Porifera, Collection Patrimoines Naturels*, 50 : pp. 85.

Remarks : Wet, Good.

Family MYCALIDAE Lundbeck, 1905

Genus *Mycale* Gray, 1867

70. *Mycale aegagropala* var. *militaris* Annandale, 1914

(Plate XII C)

Type; Regd. No. ZEV6152/7; Locality : Madras Harbour, 1.2-1.8 m (4-6 ft), on *Mytilus latus* Lamarck; Coll./Donor : N. Annandale.

Reference : Annandale, N., 1914. *Records of the Indian Museum*, 10 : 151, pl.10, fig. 2.

Current status : *Mycale (Aegagropila) militaris* Annandale, 1914, Van Soest, R.W.M.; Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.674.

Remarks : Wet, Damaged, fragments of a sponge.

71. *Mycale fistulata* var. *microsigmatosa* Arndt, 1927

(Plate XII D)

Schizotype; Regd. No. P618/1; Locality : Curacao, Spain; Horst Collection; Coll./Donor : Zoological Museum, Amsterdam.

Reference : Arndt, W. 1927. *Bijdragen tot de Dierkunde*, **25** : 144, pls I, fig.9, text fig. 7.

Current status : *Mycale (Carmia) microsigmatosa* Arndt, 1927; Van Soest, R.W.M. & Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera: a guide to the classification of sponges*, p. 678.

Remarks : Wet, Good.

72. *Mycale madraspatana* Annandale, 1914
(Plate XII E)

Type; Regd. No. ZEV6149/7; **Locality** : Madras Harbour, 1.2-1.8 m (4-6 ft), on *Mytilus latus* Lamarck; **Coll./Donor** : N. Annandale.

Reference : Annandale, N., 1914. *Records of the Indian Museum*, **10(VII)** : 154, pl.11, fig. 4.

Current status : *Mycale (Mycale) madraspatana* Annandale, 1914; Van Soest, R.W.M. & Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 672.

Remarks : Wet, Good, overgrowing a mussel shell.

73. *Mycale mannarensis* Thomas, 1968
(Plate XII F)

Holotype; Regd. No. P 3122/1; (C.M.F.R.I. Regd. No. T69/1); **Locality** : Gulf of Mannar (Hare Island) depth 1 meter. **Coll./Donor** : C.M.F.R.I.; **Date of Coll.** 16.xi.1965

Reference : Thomas, P.A., 1968c. *Journal of the Marine Biological Association of India*, **10 (2)** : 255.

Current status : *Mycale (Mycale) mannarensis* Thomas, 1968; Van Soest, R.W.M. & Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 672.

Remarks : Dry, Good.

74. *Mycale mytilorum* Annandale, 1914
(Plate XIII A)

Type; Regd. No. ZEV6151/7; **Locality** : Madras Harbour, 1.2-1.8 m (4-6 ft), on *Mytilus latus* Lamarck; **Coll./Donor** : N. Annandale.

Reference : Annandale, N., 1914. *Records of the Indian Museum*, **10** : 152, pl. 10, fig. 1.

Current status : *Mycale (Carmia) mytilorum* Annandale, 1914; Van Soest, R.W.M. & Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 678.

Remarks : Wet, Good.

75. *Mycale relictata* Annandale, 1924
(Plate XIII B)

Type; Regd. No. E128/1; Locality : Verlaten Island, Binnensee; Coll./Donor : K.W. Daminerman.

Reference : Annandale, N. 1924. *Treubia Batavia*, **5** : 402.

Current status : *Mycale (Mycale) relictata* Annandale, 1929, Van Soest, R.W.M.; Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 672.

Remarks : Wet, Good.

76. *Mycale tricomialiensis* Rao, 1941
(Plate XIII C)

Type; Regd. No. P1827/1; Locality : Trincomalee, Ceylon, 5-18 m (3-10 fms); Coll./Donor : Rijks Museum, Stockholm.

Reference : Rao, H. S. 1941. *Records of the Indian Museum*, **43** : 447, pl. xii, fig. 19, text fig. 23-25.

Current status : *Mycale (Arenochalina) trincomaliensis* Rao, 1941, Van Soest, R.W.M.; Hajdu, E. 2002. Family Mycalidae Lundbeck, 1905. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 676.

Remarks : Wet, Good.

Family ISODICTYIDAE Dendy, 1924

Genus *Isodictya* Bowerbank, 1864

77. *Isodictya simulans* var. *tubuloramosa* Carter, 1887
(Plate XIII D)

Holotype; Regd. No. 8838/6; Locality : Mergui Archipelago; Coll./Donor : Mergui Expedition.

Reference : Carter, H.J. 1887. *Journal of the Linnean Society. Zoology*, 21(127-128) : 70.

Current status : *Haliclona tubuloramosa* (Carter, 1887), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

Order HALICHONDRIDA Gray, 1867

Family AXINELLIDAE Carter, 1875

Genus *Auletta* Schmidt, 1870

78. *Auletta andamanensis* Pattanayak, 2006

(Plate XIII E)

Holotype; Regd. No. P3481/1; Locality : Andaman Sea, Lat. 13° 17' North, Long. 93° 7' East, 165 m.; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 13.iv.1898.

Reference : Pattanayak, J. G. 2006. *Records of the Zoological Survey of India, Occasional Paper No.*, 255 : 66, Fig. 44a, b, pl. VII D.

Remarks : Wet, Good.

79. *Auletta elegans* Vosmaer, 1882

(Plate XIII F)

Schizotype; Regd. No. P620/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, Sta. 20); Coll./Donor : Zool. Mus. Amsterdam.

Reference : Vosmaer, G.C.J., 1882. *Niederlandisches Archiv für Zoologie Supplement* 1 (3) : 40, pls.I.

Current status : *Semisuberites cribrosa* (Micklucho-Maclay, 1870), Van Soest, R.W.M.; Hajdu, E. 2002. Family Esperlopsidae Hentschel, 1923. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 661.

Remarks : Wet, Good.

Genus *Axinella* Schmidt, 1862

80. *Axinella acanthelloides* Pattanayak, 2006

(Plate XIV A)

Holotype; Regd. No. P3482/1; Locality : 27km South East of Sinque Island, Andamans Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 05.i.1888.

Reference : Pattanayak, J.G. 2006. *Records of the Zoological Survey of India, Occasional Paper No.*, **255** : 68, Fig. 46 a & b, Pl. VIII B.

Remarks : Wet, Good.

81. *Axinella virgultosa* Carter, 1887

(Plate XIV B)

Type; Regd. No. ZEV1717/7; Locality : King's Island, Mergui Archipelago; Coll./Donor : Mergui Expedition.

Reference : Carter, H.J. 1887. *Journal of the Linnean Society. Zoology*, **21**(127-128) : 68, pl. V, fig. 11.

Remarks : Wet, Good.

Genus *Phakellia* Bowerbank, 1862

82. *Phakellia arctica* Vosmaer, 1885

(Plate XIV C)

Schizotype; Regd. No. P602/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, Sta.9); Coll./Donor : Zool. Museum, Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde*, Amsterdam, **12** (3) : 24, Pl-V.

Current status : *Axinella arctica* (Vosmaer, 1885), Van Soest, R.W.M. (2001). Porifera, In : Costello, M.J. *et al.* (Ed.) (2001). *Collection Patrimoines Naturels*, 50 : 85.

Remarks : Wet, Good.

83. *Phakellia bowerbanki* Vosmaer, 1885

(Plate XIV D)

Schizotype; Regd. No. P608/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, Sta.8); Coll./Donor : Zool. Mus. Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde*, Amsterdam, **12**(3) : 24, Pl-V.

Remarks: Wet, Good.

84. *Phakellia bowerbanki* var.B Vosmaer, 1885

(Plate XIV E)

Type; Regd. No. P626/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, Sta. 8); Coll./Donor : Zool. Mus. Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde*, Amsterdam, 12(3) : 25.

Current status : *Phakellia bowerbanki* Vosmaer, 1885, Van Soest, R.W.M. (2001). *Porifera*. In : Costello, M.J. *et al.* (Ed.) (2001). *Collection Patrimoines Naturels*, 50 : 85.

Remarks : Wet, Good.

85. *Phakellia cactoides* Burton, 1928

(Plate XIV F)

Type; Regd. No. P314/1; *Locality* : Sta. 141, Lat 14° 11' 6" N., Long 80° 24' E. Bay of Bengal, 161 m (88 fm) *Coll./Donor* : R.I.M.S. "Investigator"; *Date of Coll.* 13.iv.1893.

Reference : Burton, M., 1928 *Records of the Indian Museum*, 30 : 127, pl. I, fig. 6-8.

Current status : *Phakettia cactoides* (Burton, 1928), Van Soest, R.W.M.; Erpenbeck, D.; Alvarez, B. 2002. Family Dictyonellidae Van Soest, Diaz & Pomponi, 1990. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 779.

Remarks : Wet, Good.

86. *Phakellia incisa* Schmidt, 1880

(Plate XV A)

Schizotype; Regd. No. P577/1; *Locality* : Gulf of Naples; *Coll./Donor* : Rijks Museum van Nat. Hist. Leiden.

Reference : Schmidt, O. 1880b. *Archiv für mikroskopische Anatomie und Entwicklungsmechanik*, 18 : 280.

Current status : *Dictyonella incisa* (Schmidt, 1880), Van Soest, R.W.M.; Erpenbeck, D.; Alvarez, B. 2002. Family Dictyonellidae Van Soest, Diaz & Pomponi, 1990. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera: a guide to the classification of sponges*, p. 776.

Remarks : Dry, Good.

Family BUBARIIDAE Topsent, 1894

Genus *Bubaris* Gray, 1867

87. *Bubaris columnata* Burton, 1928

(Plate XV B)

Type; Regd. No. P317/1; *Locality* : Andaman Sea, Lat. 13° 17' North, Long. 93° 7' East 164 m (90 fms); *Coll./Donor* : R.I.M.S. "Investigator"

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30**(1) : 130, pl. 2, fig. 1.

Current status : *Phakellia columnata* (Burton, 1928), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

88. *Bubaris durissima* Burton, 1928
(Plate XV C)

Type; Regd. No. P318/1; Locality : Sta. 532, Lat. 12° 15' 20" North, Long. 97° 10' 10" East, Mergui Archipelago, 113 m (62 fms); Coll./Donor : R.I.M.S. "Investigator"; Date of Coll.. 16.iv.1913.

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30**(1) : 131, pl. 2, fig. 2.

Current status : *Higginsia durissima* (Burton, 1928), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

89. *Bubaris ligulata* Burton, 1928
(Plate XV D)

Type; Regd. No. P319/1; Locality: Sta.532, Lat. 12° 15' 20" North, Long. 97° 10' 10" East, Mergui Archipelago, 113m (62 fms); Coll./Donor : R.I.M.S."Investigator"; Date of Coll.. 16.iv.1913.

Reference : Burton, M., 1928. *Records of the Indian Museum*, **30**(1) : 132, pl. 2, fig. 3.

Current status : *Acanthella ligulata* (Burton, 1928), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

Family DICTYONELLIDAE Van Soest, Diaz & Pomponi, 1990

Genus *Acanthella* Schmidt, 1862

90. *Acanthella multiformis* Vosmaer, 1885
(Plate XV E)

Schizotype; Regd. No. P631/1; Locality : Barents Sea ('Willem Barents' Expedition 1880 and 1881, Sta. 9); Coll./Donor : Zoological Museum, Amsterdam.

Reference : Vosmaer, G.C.J., 1885. *Bijdragen tot de Dierkunde*, Amsterdam, 12(3) : 25.

Remarks : Wet, Good.

91. *Acanthella ramosa* Kumar, 1925

(Plate XV F)

Type; Regd. No. P198/1; Locality : Ganjam Coast, Orissa, 44-55 m (24-30 fms).
Coll./Donor : Bengal Fisheries (Golden Crown); Date of Coll. 8-16.iii.1909.

Reference : Kumar, A., 1925. *Records of the Indian Museum*, 27 : 224, fig. 6.

Remarks : Wet, Good.

Genus *Lissomyxilla* Hanitsch, 1894

92. *Lissomyxilla hanitschi* Kirkpatrick, 1907

(Plate XVI A)

Co-type; Regd. No. P711/1; Locality : Antarctic, "Discovery" Antarctic Expedition;
Coll./Donor : British Museum.

Reference : Kirkpatrick, R. 1907. *Annals and Magazine of Natural History*, (7) 20 (117) : 275.

Current status : *Myxodoryx hanitschi* (Kirkpatrick, 1907), Van Soest, R.W.M. 2002. Family Hymedesmiidae. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 584.

Remarks : Wet, Good.

Family HALICHONDRIIDAE Gray, 1867

Genus *Amorphinopsis* Carter, 1887

93. *Amorphinopsis excavans* Carter, 1887

Schizotype; Regd. No. ZEV 8597; Locality : Mergui Archipelago; Coll./Donor : J. Anderson.

Reference : Carter, H.J. 1887. *Journal of the Linnean Society. Zoology*, 21(127-128) : 71, pl. 5, figs. 12-15.

Remarks : Dry, Deteriorated.

94. *Amorphinopsis excavans* var. *digitifera* Annandale, 1915

(Plate XVI C)

Type; Regd. No. ZEV5010/7; Locality : Fisher Bay, Tavor Island; Coll./Donor : Capt. R.B.S. Sewell, I.M.S.

Reference : Annandale, N. 1915c. *Records of the Indian Museum*, 11 (6) : 469.

Current status : *Amorphinopsis excavans* Carter, 1887, Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

95. *Amorphinopsis excavans* form *mollis* Annandale, 1924

(Plate XVI B)

Type; Regd. No. E127/1; Locality : Verlaton Island, Malay Archipelago, Coll./Donor : K.W. Dammerman.

Reference : Annandale, N. 1924. *Treubia Batavia*, 5 : 406.

Current status : *Amorphinopsis excavans* Carter, 1887, Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good.

96. *Amorphinopsis excavans* var. *robinsoni* Annandale, 1918

(Plate XVI D)

Type; Regd. No. ZEV7173/7; Locality : Port Weld Federated, Malay States; Coll./Donor : N. Annandale.

Reference : Annandale, N. 1918. *Memoirs of the Asiatic Society of Bengal*, 6 : 199, Pl. IX.

Current status : *Amorphinopsis excavans* Carter, 1887, Erpenbeck, D.; Van Soest, R.W.M. 2002. Family Halichondriidae Gray, 1867. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p.792.

Remarks : Wet, Good.

97. *Amorphinopsis kempi* Kumar, 1925

(Plate XVI E)

Type; Regd. No. P199/1; Locality : Waltair; Andhra Pradesh, Coll./Donor : S.W. Kemp.

Reference : Kumar, A., 1925. *Records of the Indian Museum*, 27 : 225, fig. 7.

Remarks : Wet, Good.

Genus *Spongosorites* Topsent, 1896

98. *Spongosorites andamanensis* Pattanayak, 2006

(Plate XVI F)

Holotype; Regd. No. P3483/1; Locality : Chiriyatapu, South Andaman; Coll./Donor : G.C. Ghosh; Date of Coll. 24.i.1992.

Reference : Pattanayak, J.G. 2006. *Records of the Zoological Survey of India, Occ. Paper No.*, 255 : 72, Fig. 50 a&b, Pl. VIII F.

Remarks : Wet, Good.

Order HAPLOSCLERIDA Topsent, 1928

Suborder HAPLOSCLERINA Topsent, 1928

Family CALLYSPONGIIDAE de Laubenfels, 1936

Genus *Callyspongia* Duchassaing & Michelotti, 1864

99. *Callyspongia cellaria* Rao, 1941

(Plate XVII A)

From type; Regd. No. P3522/1; Locality : Trincomalee, Ceylon, 15 m-18 m (8-10 fms); Coll./Donor : Rijks Museum, Stockholm (Exchange).

Reference : Rao, H. S. 1941. *Records of the Indian Museum*, 43 : 437, pl. XII, fig. 1-7, text figs. 14&15.

Remarks : Wet, Good. H. Srinivasa Rao (1941) described the species from the Collection of Dr. Konrad Fristedt of Natural History Museum, Stockholm. The Holotype is deposited in Natural History Museum, Stockholm (Regd. No. S.M. No. 658). Present material is a part of the type specimen.

100. *Callyspongia cellaria* var. *fusca* Rao, 1941

(Plate XVII B)

From type; Regd. No. P3523/1; Locality : Pamban, Gulf of Mannar, 9m (5 fms); Coll./Donor : Rijks Museum, Stockholm.

Reference : Rao, H.S. 1941. *Records of the Indian Museum*, 43 : 439, pl. XII, fig. 8-9, text figs. 16-18.

Current status : *Callyspongia cellaria fusca* Rao, 1941, Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Wet, Good. H. Srinivasa Rao (1941) described the species from the Collection of Dr. Konrad Fristedt of Natural History Museum, Stockholm. The Holotype is deposited in Natural History Museum, Stockholm (Regd. No. S.M. No. 686-A). Present material is a part of the type specimen.

101. *Callyspongia pambanensis* Rao, 1941

(Plate XVII C)

From type; Regd. No. P3524/1; Locality : Pamban, Gulf of Mannar; Coll./Donor : Rijks Museum, Stockholm.

Reference : Rao, H. S. 1941. *Records of the Indian Museum*, **43** : 441, pl. XII, fig. 10-12, text figs. 19-21.

Remarks : Wet, Good. H. Srinivasa Rao (1941) described the species from the Collection of Dr. Konrad Fristedt of Natural History Museum, Stockholm. The Holotype is deposited in Natural History Museum, Stockholm (Regd. No. S.M. No. 688). Present material is a part of the type specimen.

Genus *Ceraochalina* Lendenfeld, 1887

102. *Ceraochalina vanderhorsti* Arndt, 1927

(Plate XVII D)

Schizotype; Regd. No. P621/1; Locality : Curacao Bay, Curacao, Spain; Coll./Donor : Zoological Museum, Amsterdam.

Reference : Arndt, W. 1927. *Bijdragen tot de Dierkunde*, **25** : 154, pl. II, fig. 1&4, text fig. 16-18.

Current status : *Callyspongia (Callyspongia) fallax* Duchassaing & Michelotti, 1864, Van Soest, R.W.M. 1980. *In* : Hummelinck, P.W. & Van der Steen, L.J. (Eds.), *Uitgaven van de Natuurwetenschappelijke Studiekkring voor Suriname en de Nederlandse Antillen*. No. 104. *Studies on the Fauna of Curaçao and other Caribbean Islands*, **62**(191) : 47.

Remarks : Wet, Good.

Genus *Siphonochalina* Schmidt, 1868

103. *Siphonochalina communis* var. *tenuispiculata* Dendy, 1905

(Plate XVII E)

Type; Regd. No. ZEV6498/7; Locality : Ceylon; Coll./Donor : British Museum (Exchange).

Reference : Dendy, A., 1905. *Report to the Government of Ceylon on the Pearl Oyster Fisheries of the Gulf of Mannar*, Royal Society, London, suppl. 3(18) : 155, Pl. VII, fig. 1.

Remarks : Dry, Good, very small.

Family CHALINIDAE Gray, 1867

Genus *Chalina* Grant, 1861

104. *Chalina clathrata* Dendy, 1905

(Plate XVII F)

Type; Regd. No. ZEV6474/7; **Locality** : Gulf of Mannar; **Coll./Donor** : S.W. Kemp; **Date of Coll.** 12.ii.1913.

Reference : Dendy, A., 1905. *Report to the Government of Ceylon on the Pearl Oyster Fisheries of the Gulf of Mannar*, Royal Society, London, suppl. 3(18) : 151, pl. X.

Current status : *Callyspongia clathrata* (Dendy, 1905), Van Soest *et al.*, 2009. At <http://www.marinespecies.org/porifera>.

Remarks : Dry, Good.

Genus *Gellius* Gray, 1867

105. *Gellius infundibuliformis* Vosmaer, 1885

(Plate XVIII A)

Schizotype; Regd. No. P607/1; **Locality** : Barents Sea ('Willem Barents' Expedition 1880 and 1881, sta. 8); **Coll./Donor** : Zoological Museum, Amsterdam.

Reference : Vosmaer, G.C.J. 1885. *Bijdragen tot de Dierkunde*, 12(3) : 29, pl. V.

Current status : *Haliclona (Gellius) infundibuliformis* (Vosmaer, 1885), De Weerd, W.H. 2002. Family Chalinidae Gray, 1867. De Weerd, W.H. 2002. Family Chalinidae Gray, 1867. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 858.

Remarks : Wet, Good.

106. *Gellius megastoma* Burton, 1928

(Plate XVIII B)

Type; Regd. No. P292/1; **Locality** : Andamans, 238-530m (130-290 fms); **Coll./Donor** : R.I.M.S. "Investigator"

Reference : Burton, M. 1928. *Records of the Indian Museum*, 30(1) : 115, Pl. I, fig.1.

Current status : *Haliclona (Gellius) megastoma* (Burton, 1928), De Weerd, W.H. 2002. Family Chalinidae Gray, 1867. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 858.

Remarks : Wet, Good.

Family NIPHATIDAE Van Soest, 1980

Genus *Gelliodes* Ridley, 1884

107. *Gelliodes carnosus* Dendy, 1889

(Plate XVIII C)

Schizotype; Regd. No. ZEV6473/7; Locality : Gulf of Mannar; Coll./Donor : British Museum (Exchange).

Reference : Dendy, A. 1889. *Annals and Magazine of Natural History*, (6) 3 : 73, pls. III-V.

Remarks : Dry, Good.

Genus *Pachychalina* Schmidt, 1868

108. *Pachychalina rugosa* var. *rubens* Arndt, 1927

(Plate XVIII D)

Schizotype; Regd. No. P597/1; Locality : Curacao, Spain; Coll./Donor : Zoological Museum, Amsterdam.

Reference : Arndt, W. 1927. *Bijdragen tot de Dierkunde*, 25 : 133.

Remarks : Wet, Good.

109. *Pachychalina spinilamella* Dendy, 1889

(Plate XVIII E)

Schizotype; Regd. No. ZEV6476/7; Locality : Gulf of Mannar; Coll./Donor : British Museum (Exchange).

Reference : Dendy, A., 1889. *Annals and Magazine of Natural History*, (6) 3 : 77, pl. V.

Current status : *Callyspongia (Cladochalina) spinilamella* (Dendy, 1889), Desqueyroux-Faúndez, R.; Valentine, C. 2002. Family Niphatidae Van Soest, 1980. In : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 888.

Remarks : Dry, Good.

Suborder PETROSINA Boury-Esnault & Van Beveren, 1982

Family PHLOEODICTYIDAE Carter, 1882

Genus *Aka* de Laubenfels, 1936110. *Aka diagnoxea* Thomas, 1968

(Plate XIX A)

Holotype; Regd. No. P3116/1 (CMFRI Regd. No. T 70/1); Locality : Gulf of Mannar; Coll./Donor : P.A. Thomas, CMFRI; Date of Coll.. 20.vi.1965.

Reference : Thomas, P.A.1968b. *Journal of the Marine Biological Association of India*, **10** (2) : 250, figs. 1-5.

Remarks : Dry, Good.

111. *Aka minuta* Thomas, 1972

(Plate XVIII F)

Holotype; Regd. No. P3117/1 (CMFRI Regd No. T 71/1); Locality : Gulf of Mannar; Coll./Donor : P.A.Thomas, CMFRI; Date of Coll.. 06.ix.1969.

Reference : Thomas, P.A. 1972. *Proceedings of the Symposium on Corals and Coral reefs, 1969, Marine Biological Association of India*, p. 343.

Remarks : Dry, Good.

Genus *Calyx* Vosmaer, 1885112. *Calyx clavata* Burton, 1928

(Plate XIX B)

Type; Regd. No. P299/1; Locality : Off Cinque Island, Andamans, 220-311 m (120-170 fms); Coll./Donor : R.I.M.S. " Investigator"

Reference : Burton, M. 1928. *Records of the Indian Museum*, **30**(1) : 117.

Remarks : Wet, Good, Very small.

Family PETROSIIDAE Van Soest, 1980

Genus *Petrosia* Vosmaer, 1885113. *Petrosia mammiformis* Dendy, 1922

(Plate XIX C)

Cotype; Regd. No. P692/1; Locality : Salomon. CXXII. 3; Coll./Donor : Gardiner Collection, British museum.

Reference : Dendy, A., 1922. *Transactions of the Linnaean Society of London*, **18** : 36, pl. XVIII.

Current status : *Petrosia (Petrosia) mammiformis* Dendy, 1922, Desqueyroux-Faúndez, R.; Valentine, C. 2002. Family Petrosiidae Van Soest, 1980. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 912.

Remarks : Wet, Good.

Suborder SPONGILLINA Hooper and Van Soest, 2002

Family POTAMOLEPIDAE Brien, 1967

Genus *Potamolepis* Marshall, 1883

114. *Potamolepis barroisi* Topsent, 1892

(Plate XIX D)

Cotype; Regd. No. ZEV3925/7; Locality : Lake Tiberias, Bellavista; Coll./Donor : Berlin Museum (Exchange).

Reference : Topsent, E. 1892. *Revue biologique de la France*, **5**(3) : 85.

Current status : *Cortispongilla barroisi* (Topsent, 1892), Manconi R. & Pronzato, R. (2002). Suborder Spongillina. *In* : Hooper, J.N.A., Van Soest, R.W.M. (Ed.) (2002). *Systema porifera : a guide to the classification of sponges*, p. 976.

Remarks : Wet, Good.

Order DICTYOCERATIDA Minchin, 1900

Family IRCINIIDAE Gray, 1867

Genus *Hircinia* Nardo, 1834

115. *Hircinia cactiformis* Rao, 1941

(Plate XIX E)

Part of Type; Regd. No. P1826/1; Locality : Pamban, Gulf of Mannar; Coll./Donor : Rijks Museum, Stockholm.

Reference : Rao, H.S. 1941. *Records of the Indian Museum*, **43** : 459, Pl. XIII, fig. 8, text fig. 29.

Current status : *Ircinia cactiformis* (Rao, 1941), Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1023.

116. *Hircinia pelliata* Rao, 1941

(Plate XIX F)

Holotype; Regd. No. P1825/1; Locality : Trincomalee, Ceylon; Coll./Donor : Rijks Museum, Stockholm.

Reference : Rao, H. S. 1941. *Records of the Indian Museum*, **43** : 461, Pl. XIII, fig. 9, text fig. 30.

Current status : *Ircinia pelliata* (Rao, 1941), Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1023.

Remarks : Wet, Good.

Genus *Stenospongia* Burton, 1928117. *Stenospongia aligera* Burton, 1928

(Plate XX A)

Type; Regd. No. P323/1; Locality : Sta. 535, Mergui Archipelago, 119 m (65 fms), 13° 4' 30" N, 96° 44' E. Coll./Donor : R.I.M.S."Investigator"; Date of Coll. 17.iv.1913.

Reference : Burton, M. 1928. *Records of the Indian Museum*, **30**(1) : 134, pl. 2, fig. 6.

Current status : *Sarcotragus aligera* (Burton, 1928), Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1024.

Remarks : Wet, Good.

Family THORECTIDAE Bergquist, 1978

Subfamily THORECTINAE, Bergquist, 1978

Genus *Thorectopsamma* Burton, 1934118. *Thorectopsamma seychellensis* Thomas, 1973

(Plate XX B)

Holotype; Regd. No. P3125/1 (CMFRI Regd. No. 65/1); Locality : Mahe Island, Seychelles, Indian Ocean; Coll./Donor : J. Bouillon; Date of Coll. 07.ix.1966.

Reference : Thomas, P.A. 1973. *Annales du Musée royal de l'Afrique centrale-Tervulen, Belgique, Série in 8vo. Sciences zoologiques*, (203) : 15.

Current status : *Fasciospongia seychellensis* (Thomas, 1973), Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera: a guide to the classification of Sponges*, p. 1036.

Remarks : Dry, Good.

Subfamily PHYLLOSPONGIINAE Bergquist, Sorokin & Karuso, 1999

Genus *Phyllospongia* Ehlers, 1870

119. *Phyllospongia madagascarensis* var. *supraoculata* Ridley, 1884

(Plate XX C)

Cotype; Regd. No. ZEV6468/7; Locality : Amirante Island; Coll./Donor : British Museum (Exchange).

Reference : Ridley, S.O. 1884. *Report on the Zoological Collection made in the Indo-Pacific Ocean during the Voyage of H.M.S. 'Alert', 1881-1882* : 366.

Remarks : Dry, Good.

Family SPONGIIDAE Gray, 1867

Genus *Spongia* Linnaeus, 1759

120. *Spongia officinalis* var. *bibulus* Rao, 1941

(Plate XX D)

From type; Regd. No. P1828/1; Locality : Trincomalee, Ceylon, 5-18 m (3-10 fms.), Rijks Museum, Stockholm.

Reference : Rao, H. S. 1941. *Records of the Indian Museum, Calcutta*, 43 : 456, pl. XII, fig. 5 & 6, text fig. 27 & 28.

Current status : *Spongia (Spongia) bibulus* Rao, 1941, Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1054.

Remarks : Wet, Good.

121. *Spongia officinalis* var. *fenestrata* Rao, 1941

(Plate XX E)

Type; Regd. No. P1829/1; Locality : Pamban, Gulf of Mannar; Coll./Donor : Rijks Museum, Stockholm.

Reference: Rao, H. S. 1941. *Records of the Indian Museum*, 43 : 455, pl. XII, fig. 3 & 4, text fig. 26.

Current status : *Spongia (Spongia) fenestrata* Rao, 1941, Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1054.

Remarks : Wet, Good.

Family DYSIDEIDAE Gray, 1867

Genus *Dysidea* Johnston, 1842

122. *Dysidea ramoglomerata* Carter, 1887

(Plate XX F)

Type; Regd. No. 8832/6; Locality : Mergui Archipelago; Coll./Donor : Mergui Expedition.

Reference : Carter, J. 1887. *Journal of the Linnean Society. Zoology*, 21(127-128) : 64.

Remarks : Wet, Good.

Class HEXACTINELLIDA Schmidt, 1870

Order AMPHIDISCOSIDA Schrammen, 1924

Family HYALONEMATIDAE Gray, 1857

Genus *Hyalonema* Gray, 1832

123. *Hyalonema aculeatum* Schulze, 1894

Type; Regd. No. 5353/7; Locality : Andaman Sea, 458 m (250 fms.), North Sentinel; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. : 07.ii.1888.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre 1894* : 19, pl. III, figs. 1-14.

Current status : *Hyalonema (Pteronema) aculeatum* Schulze, 1894, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. In : Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1253.

Remarks : Wet, Damaged.

124. *Hyalonema alcocki* Schulze, 1895

(Plate XXI A)

Type; Regd. No. 5342/7; Locality : Sta.125, 2286 m (1250 fms), Laccadive Sea, Lat. 10° 7' 50" N, Long. 74° 42' 30" E.; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 03.xii.1891.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre 1894* : 34.

Current status : *Hyalonema (Paradisconema) alcocki* Schulze, 1894, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In* : Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1248.

Remarks : Wet, Damaged.

125. *Hyalonema indicum andamanense* Schulze, 1895

(Plate XXI B)

Type; Regd. No. 5338/7; Locality : Sta.113, 1249m (683fms), Andaman sea, Lat. 12°59' N., Long. 93°23'10" E Coll./Donor : Marine Survey; Date of Coll. 13.xi.1890

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1894* : 24.

Current status : *Hyalonema (Coscionema) indicum andamanense* Schulze, 1895, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In* : Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1240.

Remarks : Wet, Good. In the text of original *Reference* the specimen of Sta.104 is mentioned as *Hyalonema indicum andamanense* but on the container only *Hyalonema indicum* is labeled.

126. *Hyalonema indicum laccadivense* Schulze, 1895

(Plate XXI C)

Type; Regd. No. 5340/7 Locality : Sta.104, 1829m (1000 fms), Laccadive sea, Lat. 11°12'47" N., Long. 74°25'30" E. Coll./Donor : Marine Survey; Date of Coll. 03.iv.1890.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre 1894* : 24, pl. IV, fig. 1-13.

Current status : *Hyalonema (Coscinonema) indicum laccadivense* Schulze, 1895, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In* : Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1240.

Remarks : Wet, Good. In the text of original *Reference* the specimen of Sta. 113 is mentioned as *Hyalonema indicum laccadivense* but on the container only *Hyalonema indicum* is labeled.

127. *Hyalonema investigatoris* Schulze, 1894

Type; Regd. No.5340/7; **Locality** : Sta.118, 3297m (1803 fms), Bay of Bengal, Lat. 12° 20' N, Long. 85° 8' E; **Coll./Donor** : R.I.M.S. "Investigator"; **Date of Coll.** 15.xii.1890.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1894* : 37, pl. VII, figs. 9-17.

Current status : *Hyalonema (Paradisconema) investigatoris* Schulze, 1894, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In* : Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1248.

Remarks : Wet, Damaged.

128. *Hyalonema maehrentali* Schulze, 1894

(Plate XXI D)

Type; Regd. No. 3147/9 **Locality** : Andaman Sea, 485 m & 457 m (265 & 250 fms) (North Sentinel and Ross Island); **Coll./Donor** : Marine Survey.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre 1894*: 41, pl. VIII, figs. 7-11.

Current status : *Hyalonema (Cyliconema) apertum* Schulze, 1884, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In*: Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1240.

Remarks : Wet, Damaged.

129. *Hyalonema masoni* Schulze, 1894

(Plate XXI E)

Holotype; Regd. No. 5346/7; **Locality** : Sta. 117, 3196m (1748 fms), Bay of Bengal, Lat. 11° 58' N, Long. 88° 52' 17" E; **Coll./Donor** : R.I.M.S. "Investigator"; **Date of Coll.** 13.xii.1890.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der K niglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre 1894* : 31, pl. VI, figs. 1-11.

Current status : *Hyalonema (Cyliconema) masoni* Schulze, 1894, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In* : Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1240.

Remarks: Wet, Good.

130. *Hyalonema pirum* Schulze, 1894

(Plate XXI F)

Holotype; Regd. No. 5348/7; Locality : Andaman Sea, 1026 m (561 fms); Coll./Donor : Marine Survey.

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der K niglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1894* : 27, pl. III, figs. 23-30.

Current status : *Hyalonema (Cyliconema) pirum* Schulze, 1894, Tabachnick, K.R. & Menshenina, L.L. 2002. Family Hyalonematidae Gray, 1857. *In*: Hooper, J.N.A. and Van Soest, R.W.M. (Ed.) (2002). *Systema Porifera : a guide to the classification of Sponges*, p. 1240.

Remarks : Wet, Damaged.

Family PHERONEMATIDAE Gray, 1870

Genus *Pheronema* Leidy, 1868

131. *Pheronema circumpalatum* Schulze, 1894

(Plate XXI G)

Holotype; Regd. No. 9944/6; Locality : Off West coast of Andamans, 435-530 m (238-290 fms); Coll./Donor : R.I.M.S. "Investigator"

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der K niglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre 1894* : 13, pl. II, figs.1-15.

Current status : *Pheronema raphanus* Schulze, 1894, Ijima, I. 1927. *The Hexactinellida of the Siboga Expedition*. p. 25.

Remarks : Wet, Good.

132. *Pheronema raphanus* Schulze, 1894

(Plate XXI H)

Type; Regd. No. 5345/7; Locality: Andaman Sea, 316 m (173 fms.); Coll./Donor: R.I.M.S. "Investigator"

Reference: Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1894* : 8, Pl. I, figs.1-2.

Remarks: Wet, Good.

Genus *Semperella* Gray, 1868

133. *Semperella cucumis* Schulze, 1894

(Plate XXII A)

Type; Regd. No. 9941/6; Locality : Off West coast of Andamans, 435-530 m (238-290fms); Coll./Donor : R.I.M.S. "Investigator"

Reference : Schulze, F.E. 1894. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1894* : 45, pl. I, figs. 13-23.

Remarks : Wet, Good.

Order HEXACTINOSIDA Schrammen, 1903

Family EURETIDAE Zittel, 1877

Subfamily EURETINAE Zittel, 1877

Genus *Eurete* Semper, 1868

134. *Eurete annandalei* Kirkpatrick, 1908

(Plate XXII B)

Type; Regd. No. ZEV1422/7; Locality : Sta. 284, 925 m (506 fms), East of Ceylone, Lat. 7° 55' N, Long, 81° 47' E; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 05.iv.1901.

Reference : Kirkpatrick, R. 1908. *Records of the Indian Museum*, 2 (1) : 21, Pl. I, fig. 1-13.

Current status : *Pleurochorium annandalei* (Kirkpatrick, 1908), Reischwig, H.M. & Wheeler, B. 2002. Family Euretidae Zittel, 1887. In: Hooper, .N.A. and Van Soest, R.W.M.. (Ed.) 2002. *Systema Porifera : a guide to classification of sponges*, p. 1326.

Remarks : Wet, Good.

Family TRETODICTYIDAE Schulze, 1886

Genus *Hexactinella* Carter, 1885135. *Hexactinella minor* Dendy & Burton, 1926
(Plate XXII C)

Type; Regd. No. P226/1; Locality : 8 miles West of Interview Island, 82-494 m (45-270 fms). Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 15.iv.1888.

Reference : Dendy, A.; Burton, M. 1926. *Records of the Indian Museum*, 28 (4) : 227.

Remarks : Wet, Good.

Order LYSSACINOSIDA Zittel, 1877

Family EUPLECTELLIDAE Gray, 1867

Subfamily EUPLECTELLINAE Schulze, 1886

Genus *Euplectella* Owen, 1841136. *Euplectella aspera* Schulze, 1895
(Plate XXII D)

Type; Regd. No. 5341/7; Locality : Bay of Bengal, Lat. 6° 18' N, Long. 90° 40' E, 2506-2816 m (1370-1540 fms); Coll./Donor : R.I.M.S. "Investigator"

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1895* : 26, Pl. III, fig. 1-10.

Remarks : Wet, Good.

Genus *Holascus* Schulze, 1886137. *Holascus robustus* Schulze, 1895
(Plate XXII E)

Type; Regd. No. 5326/7; Locality : Sta.118, 3297 m (1803 fms.), Bay of Bengal, Lat. 12° 20' N, Long. 85° 8' E; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 15.xii.1890.

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1895* : 4, Pl. I, fig. 1-10.

Remarks : Wet, Good.

138. *Holascus tenor* Schulze, 1895

(Plate XXII F)

Type; Regd. No. 5339/7; Locality : Bay of Bengal, 2505-2816 m (1370-1540 fms),
Lat. 6° 18' N, Long 90° 40' E, Coll./Donor : R.I.M.S. "Investigator"

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der K niglichen Preuss
Akademie der Wissenschaften zu Berlin vom Jahre, 1895 : 7.*

Remarks : Wet, Good.

Genus *Placopegma* Schulze, 1895139. *Placopegma solutum* Schulze, 1895

(Plate XXIII A)

Type; Regd. No. 5335/7; Locality : Sta.111, Bay of Bengal, 3007 m (1644 fms.),
Lat. 12° 50' N, Long. 90° 52' E, Coll./Donor : Marine Survey; Date of Coll. 06.xi.1890.

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der K niglichen Preuss,
Akademie der Wissenschaften zu Berlin vom Jahre, 1895 : 63, Pl. VI, fig. 11-17.*

Remarks : Wet, Good.

Subfamily BOLOSOMINAE Hooper and Van Soest, 2002

Genus *Saccocalyx* Schulze, 1895140. *Saccocalyx pedunculata* Schulze, 1895

(Plate XXIII B)

Type; Regd. No. 5322/7; Locality : Sta. 118, 3297m (1803 fms.), Bay of Bengal,
12° 20' N 85° 8' E; Coll./Donor : R.I.M.S. "Investigator"; Date of Coll. 15.xii.1890.

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der K niglichen Preuss
Akademie der Wissenschaften zu Berlin vom Jahre 1895 : 53, Pl. V, fig. 1-11.*

Remarks : Wet, Good.

Subfamily CORBITELLINAE Gray, 1872

Genus *Dictyaulus* Schulze, 1895141. *Dictyaulus elegans* Schulze, 1895

(Plate XXIII C)

Type; Regd. No. 5323/7; Locality : Sta. 124, 1286 m (703 fms), Arabian Sea, Lat.
10° 47' 45" N, Long. 72° 40' 20" E. Coll./Donor : R.I.M.S. "Investigator"; Date of Coll.
21.xi.1891.

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1895* : 51.

Remarks : Wet, Good.

Family ROSSELLIDAE Schulze, 1885

Subfamily ROSSELLINAE Schulze, 1885

Genus *Bathydorus* Schulze, 1886

142. *Bathydorus laevis* Schulze, 1895

(Plate XXIII D)

Type; Regd. No. 5325/7; Locality : Sta.110, 3652 m (1997 fms), Bay of Bengal, 9° 34' N, 85° 43' 15" E.; Coll./Donor : R.I.M.S. "Investigator", Date of Coll.. 03.xi.1890.

Reference : Schulze, F.E. 1895. *Aus Den Abhandlungen der Kôniglichen Preuss Akademie der Wissenschaften zu Berlin vom Jahre, 1895* : 57, pl. VI, fig. 1-10.

Remarks : Wet, Good.

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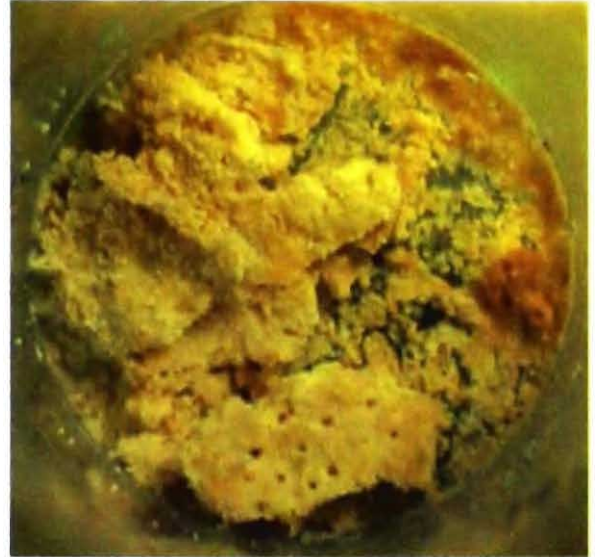
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PLATE-I



A. *Corticium acanthastrum* P3121/1



B. *Plakina acantholopha* P3120/1



C. *Tetilla dactyloidea* var. *lingua* ZEV6580/7



D. *Aurora oxytoxa* P3126/1



E. *Ecionemia thielei* P3131/1



F. *Jaspis bouilloni* P3128/1a

PLATE-II

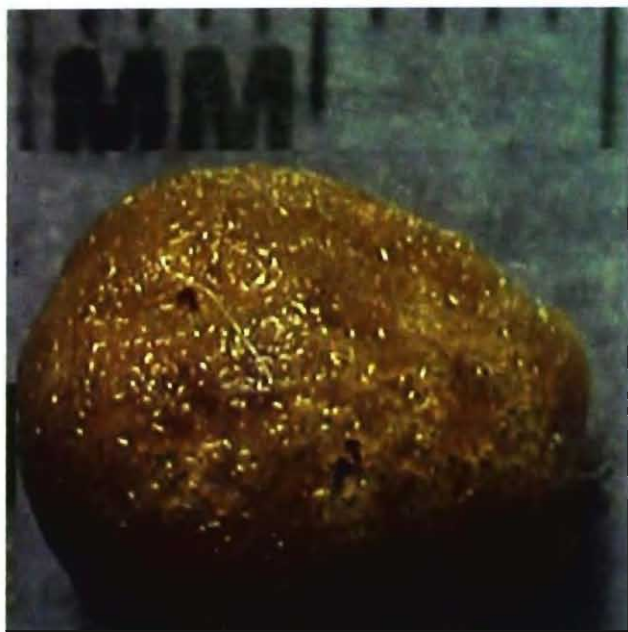
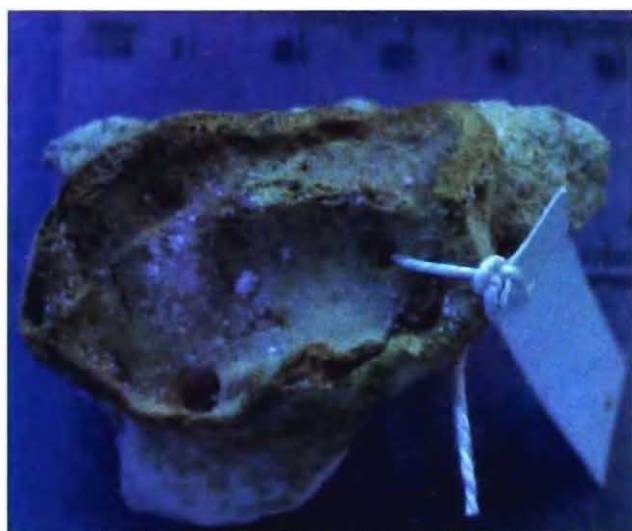
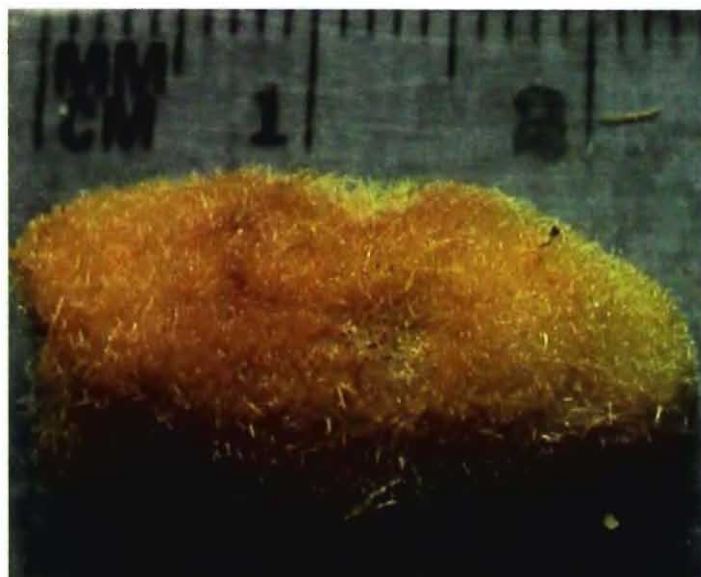
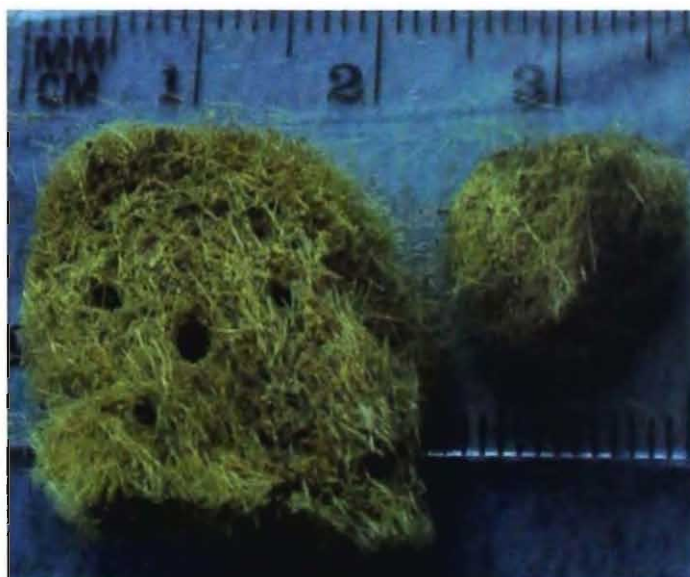
A. *Stelletta clavosa* P246/1B. *Stelletta clavosa* P246/1C. *Stelletta cylindrica* P3127/1D. *Stelletta focki* P1830/1E. *Stelletta fortis* P611/1F. *Stelletta horrens* ZEV6494/7

PLATE-III



A. *Stelletta longicladius* P245/1



B. *Stelletta trichotriaena* P243/1



C. *Cydonium arabicum* ZEV6499/7



D. *Thenea andamanensis* P239/1



E. *Thenea corallophila* P238/1



F. *Thenea corallophila* ZEV2142/7

PLATE-IV

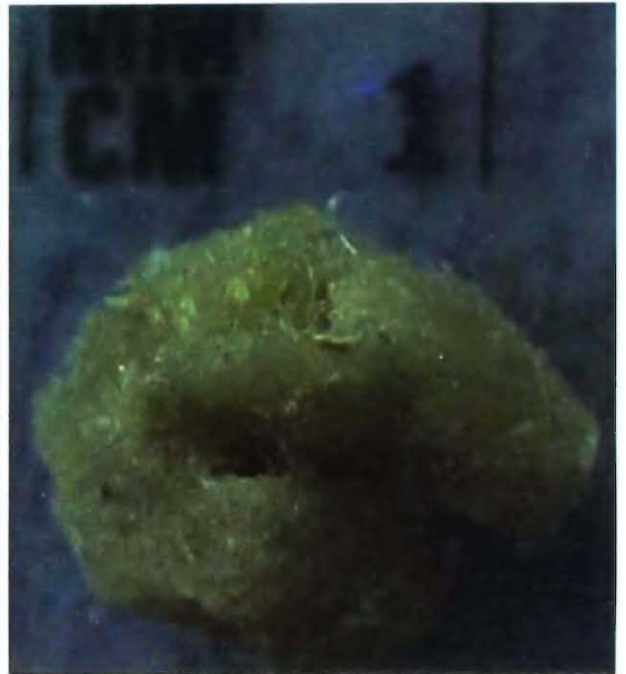
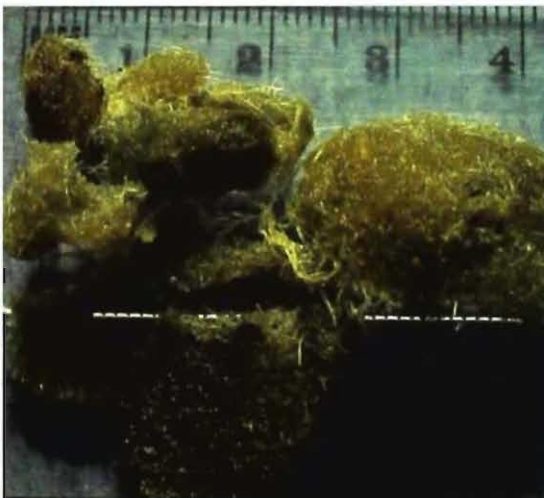
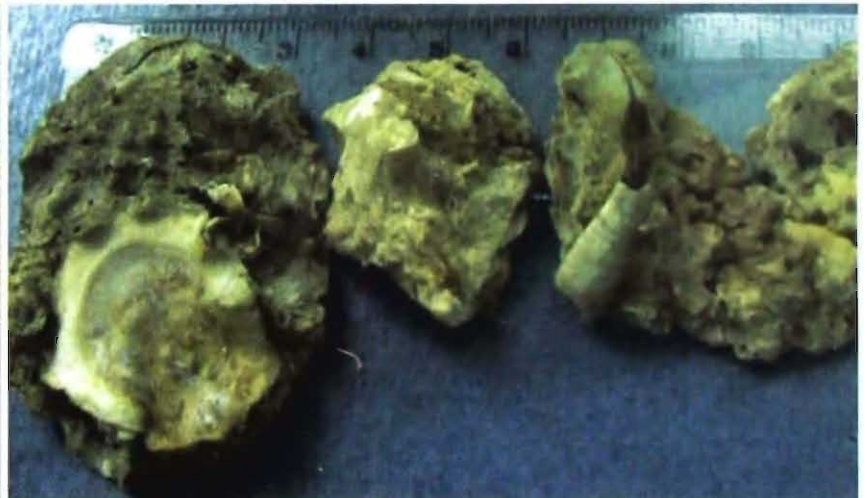
A. *Pachastrella compressa* P538/1B. *Pachastrella compressa* P538/1C. *Pocillastra eccentrica* P240/1D. Shells infested with *Cliona acustella* ZEV6415/7E. *Cliona annulifera* bioeroding
a gastropod shell EV6424/7F. Shells infested with
Thoosa investigatoris ZEV6425/7

PLATE-V



A. *Polymastia capitata* P628/1



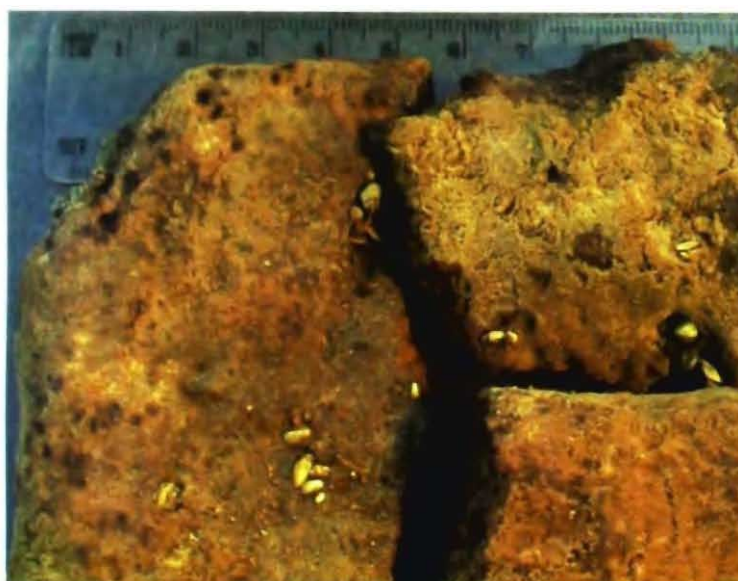
B. *Spirastrella andamanensis* P3480/1



C. *Laxosuberites aquae-dulcioris* ZEV6039/7



D. *Laxosuberites lacustris* form *collaris* E129/1



E. *Laxosuberites lacustris* ZEV6442/7



F. *Tethya merguiensis* 8846/6

PLATE-VI

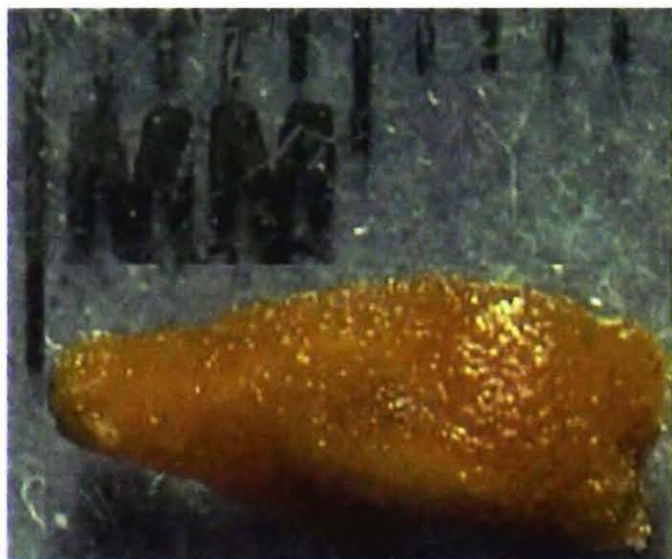
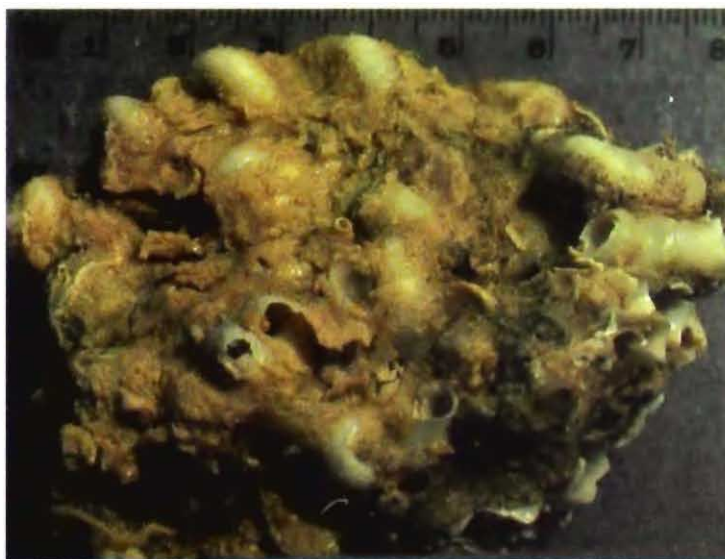
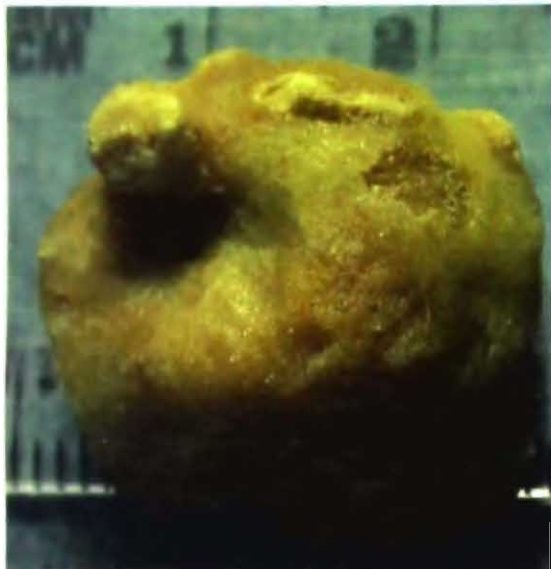
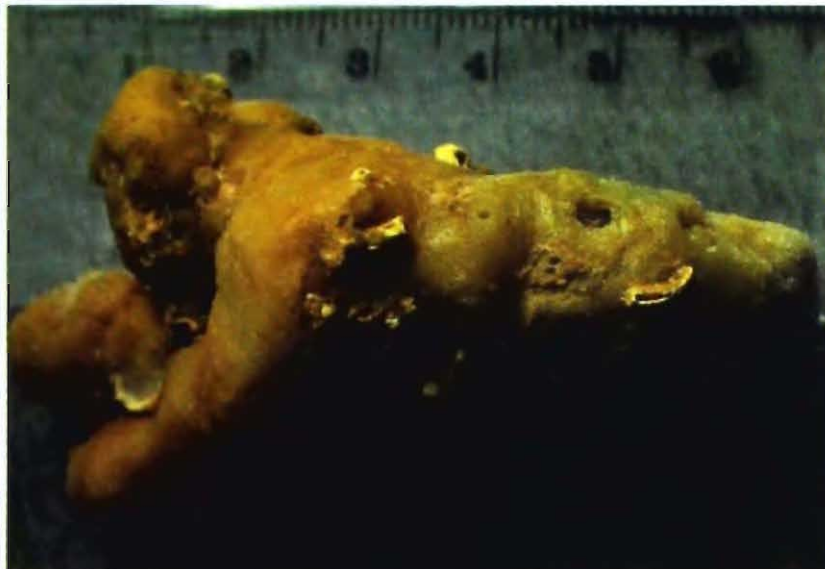
A. *Donatia andamanensis* P224/1B. *Chondrilla kilakaria* P193/1C. *Discodermia gorgonoides* P281/1D. *Discodermia interspersa* P194/1E. *Rhacodiscula sceptrifera*
var. *siliquariae* EV4652/7F. *Rhacodiscula sceptrifera*
var. *spiroglyphi* ZEV4651/7

PLATE-VII



A. *Theonella cupola* P285/1



B. *Siphonidiella dendyi* P288/1



C. *Acarnas topsenti* P683/1



D. *Artemisina suberitoides* P548/1



E. *Aulenella foraminifera* P1167/1



F. *Clathria elegans* P572/1

PLATE-VIII



A. *Clatharia encrusta* P196/1



B. *Dendrocia antyaja* P1168/1



C. *Microciona acerato-obtus* 8834/6



D. *Thalysias tenera* 8840/6



E. *Dictyocylindrus aceratus* ZEV1716/7



F. *Protoraspailia cactoides* P789/1

PLATE-IX



A. *Raspailia anastomosa* P197



B. *Raspailia fruticosa* var. *tenuiramosa* ZEV6465/7



C. *Syringella gorgonoides* ZEV6486/7



D. *Echinodictyum longistylum* P3118/1



E. *Rhabderemia acanthostyla* P3119/1

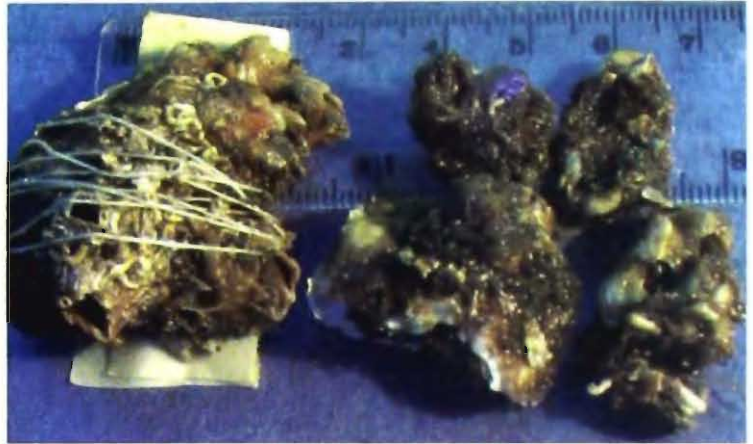


F. *Ectyodoryx lissostyla* P3115/1

PLATE-X



A. *Histoderma encrusta*
P195/1



B. *Lissodendoryx balanophilus*
ZEV6070/7



C. *Ectyobatzella enigmatica*
P1170/1



D. *Anchinoe dubia*
P312/1



E. *Hymedesmia mannarensis*
P3113/1



F. *Hymedesmia parvispicula*
P1171/1

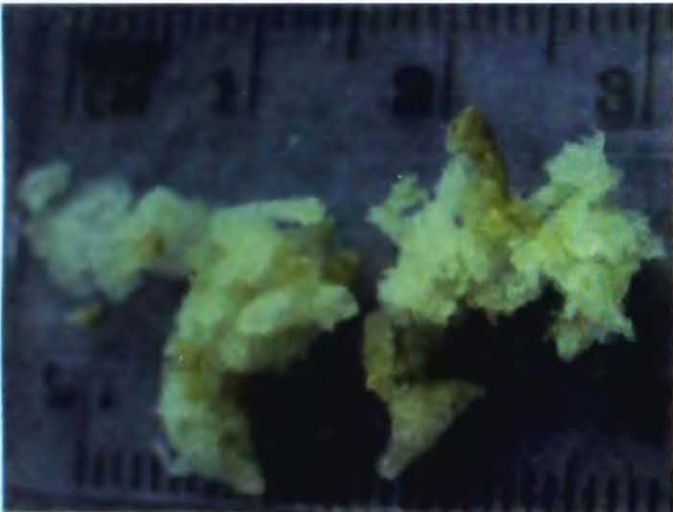
PLATE-XI



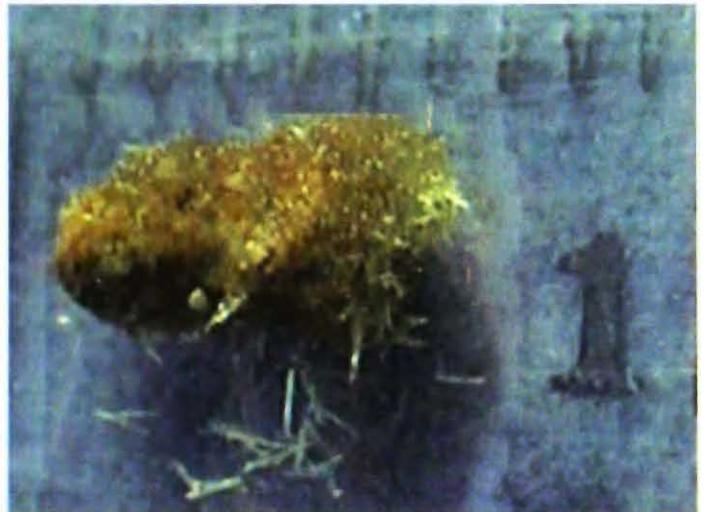
A. *Hymedesmia stylophora* P3114/1



B. *Damiriopsis bronstedti* P310/1



C. *Myxilla barentsi* P627/1



D. *Biemna liposigma* P307/1

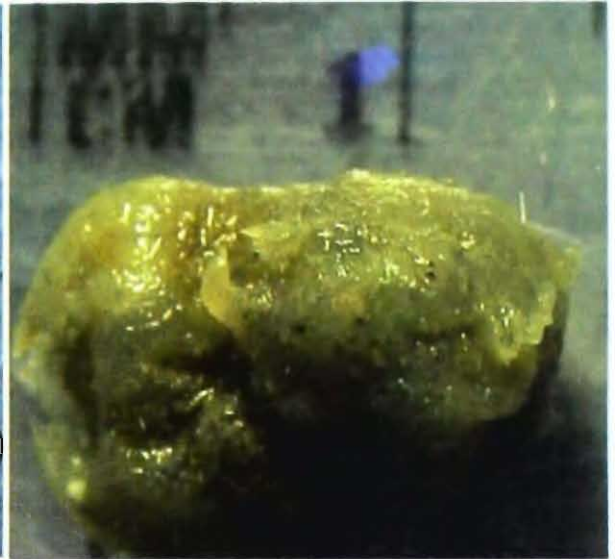


E. *Biemna variantia* var. *seychellensis* P3124/1

PLATE-XII



A. *Sigmoidinella arborea* ZEV6477/7



B. *Hamacantha papillata* P622/1



C. *Mycale aegagropala* var. *militaris*
ZEV6152/7



D. *Mycale fistulata* var. *microsigmatosa*
P618/1

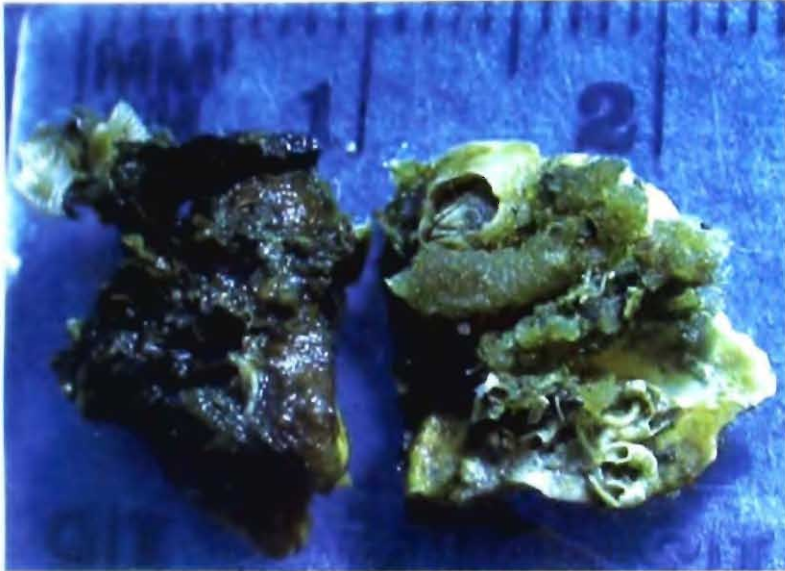


E. *Mycale madraspatana* ZEV6149/7



F. *Mycale mannarensis* P3122/1

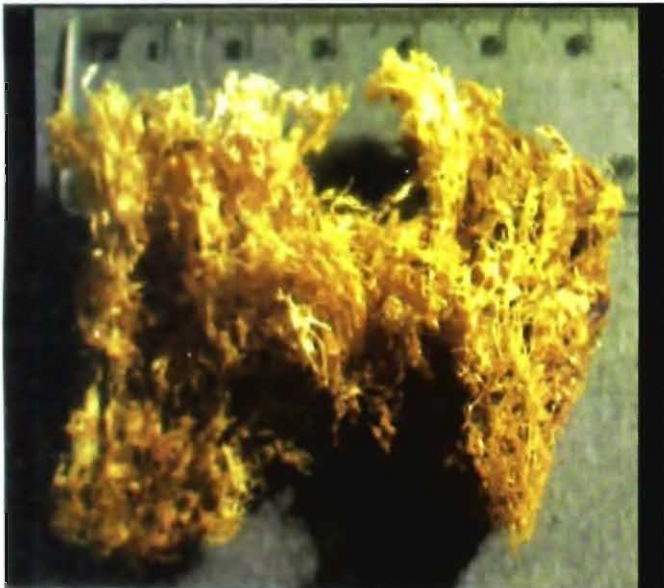
PLATE-XIII



A. *Mycale mytilorum* ZEV6151/7



B. *Mycale relicta* E128/1



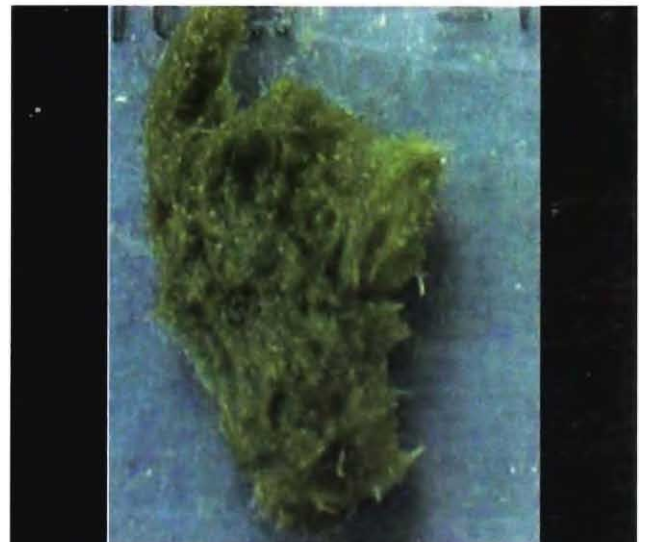
C. *Mycale trincomaliensis* P1827/1



D. *Isodictya simulans* var. *tubuloramosa* 8838/6



E. *Auleta andamanensis* P3481/1

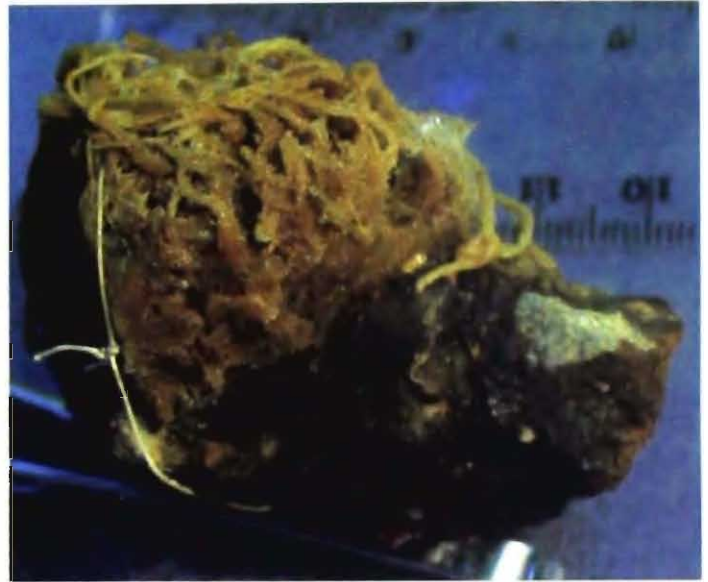


F. *Auleta elegans* P620/1

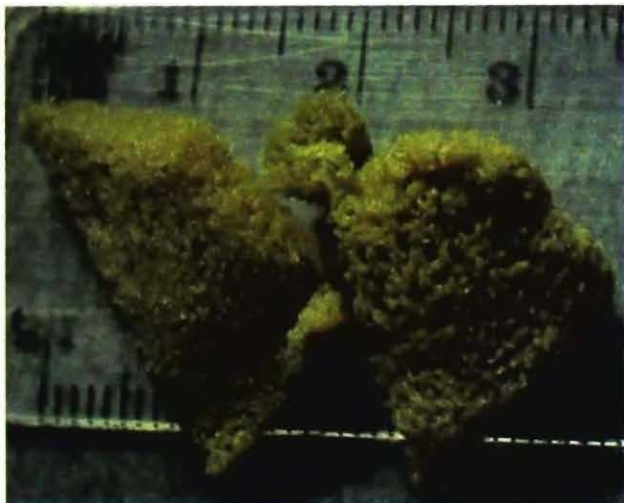
PLATE-XIV



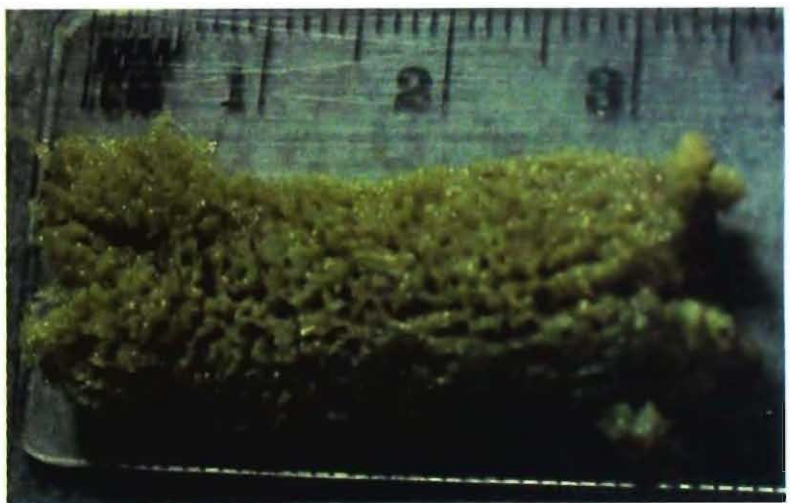
A. *Axinella acanthelloides* P3482/1



B. *Axinella virgultosa* ZEV1717/7



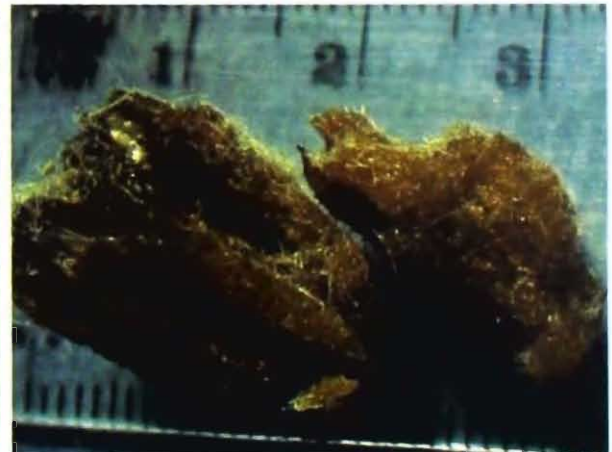
C. *Phakellia arctica* P602/1



D. *Phakellia bowerbanki* P608/1

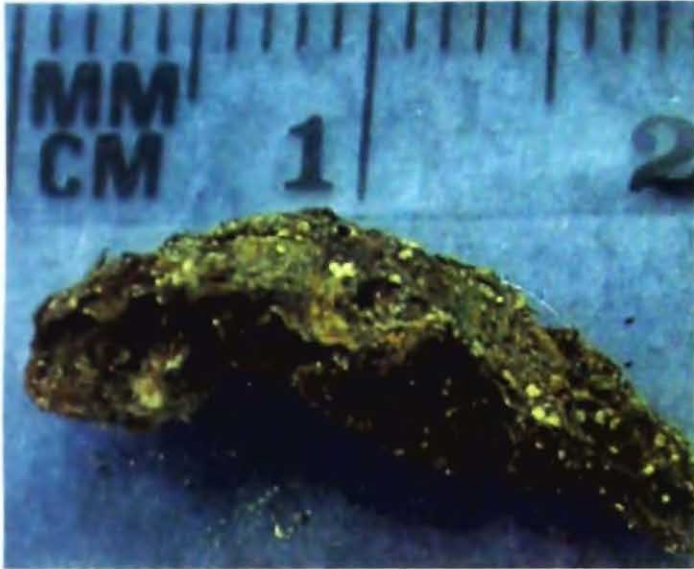


E. *Phakellia bowerbanki* var.B P626/1



F. *Phakellia cactoides* P314/1

PLATE-XV



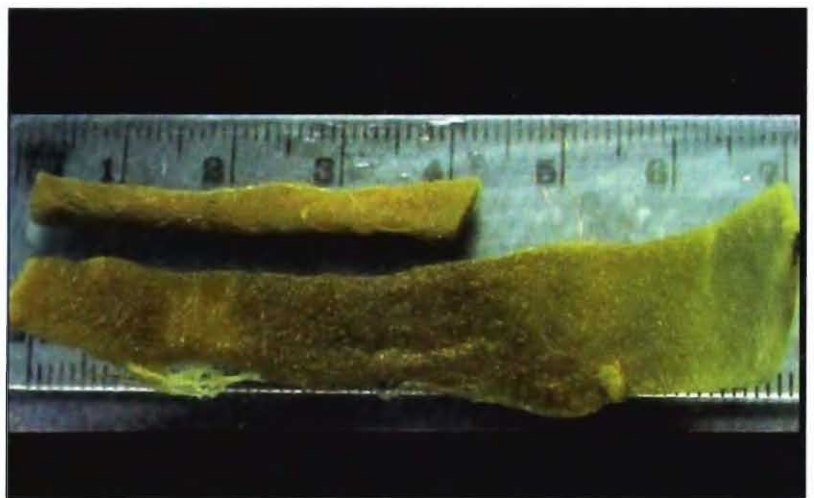
A. *Phakellia incisa*
P577/1



B. *Bubaris columnata*
P317/1



C. *Bubaris durissima*
P318/1



D. *Bubaris ligulata*
P319/1



E. *Acanthella multiformis* P631/1



F. *Acanthella ramosa* P198/1

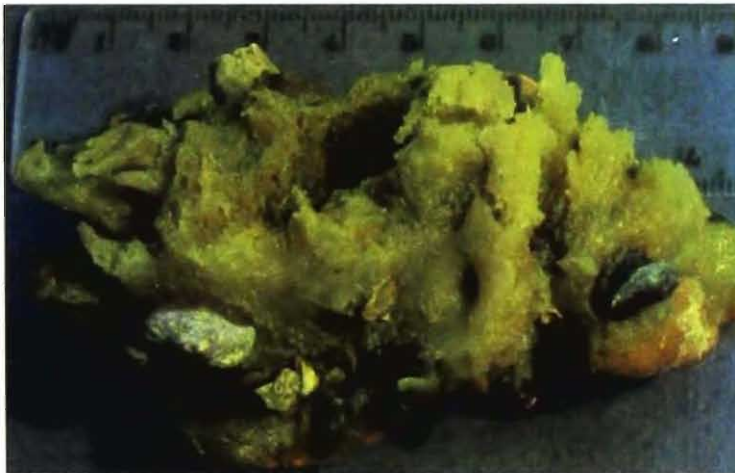
PLATE-XVI



A. *Lissomyxilla hanitschi* P711/1



B. *Amorphinopsis excavans* form *mollis* E127/1



C. *Amorphinopsis excavans* var. *digitifera*
ZEV5010/7



D. *Amorphinopsis excavans* var. *robinsoni*
ZEV7173/7

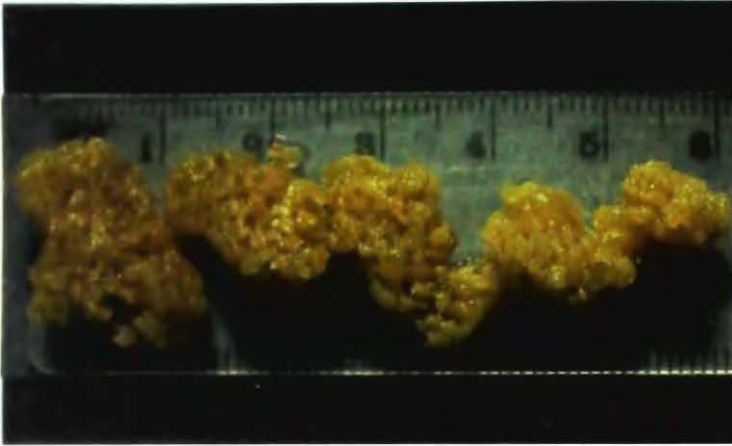


E. *Amorphinopsis kempii* P199/1



F. *Spongosorites andamanensis* 3483/1

PLATE-XVII



A. *Callyspongia cellaria* P3522/1



B. *Callyspongia cellaria* var. *fusca* P3523/1



C. *Callyspongia pambanensis* P3524/1



D. *Ceraochalina vanderhorsti* P621/1

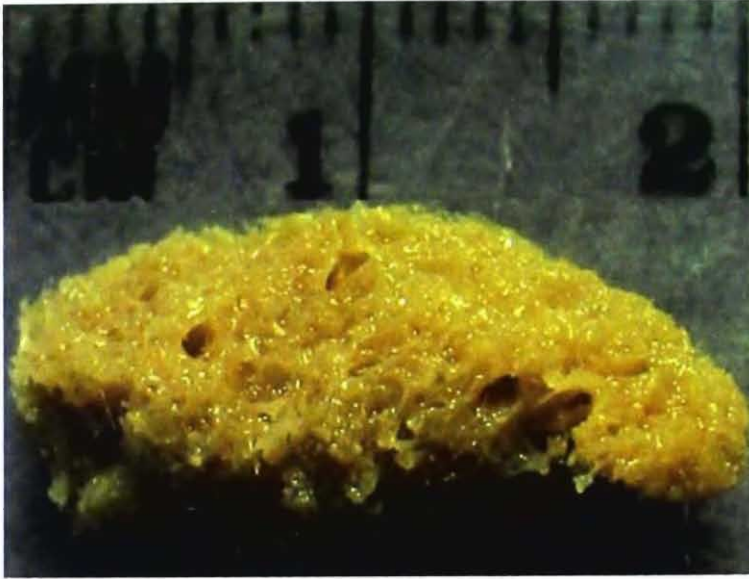


E. *Siphonochalina communis* var. *tenuispiculata*
ZEV6498/7

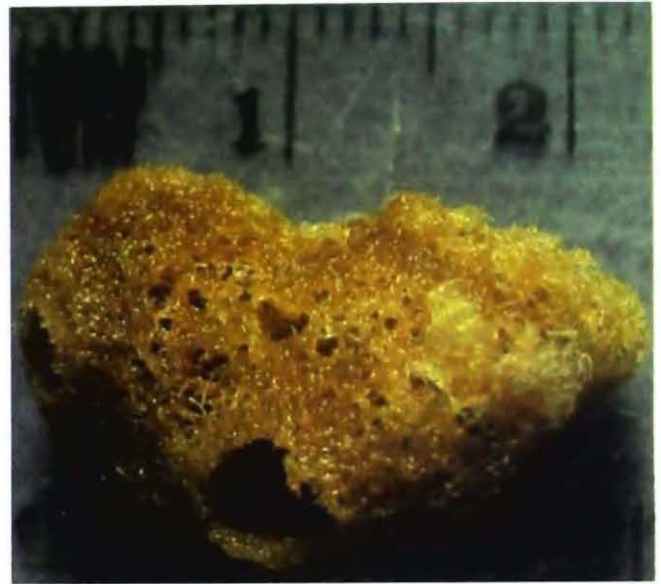


F. *Chalina (Haliclona) clathrata*
ZEV6474/7

PLATE-XVIII



A. *Gellius infundibuliformis* P607/1



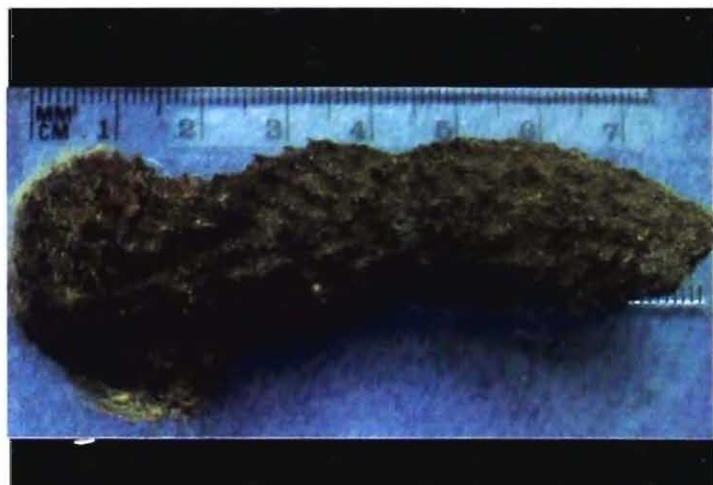
B. *Gellius megastoma* P292/1



C. *Gelliodes carnosa* ZEV6473/7



D. *Pachychalina rugosa* var. *rubens* P597/1



E. *Pachychalina spinilamella* ZEV6476/7

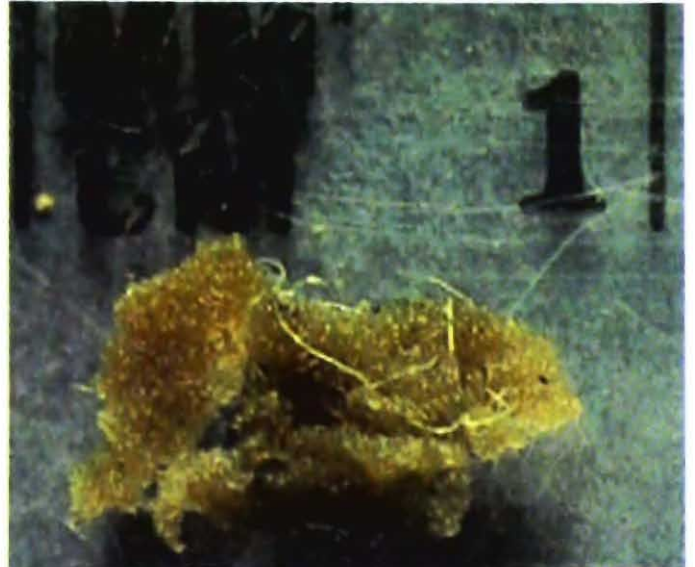


F. *Aka minuta* P3117/1

PLATE-XIX



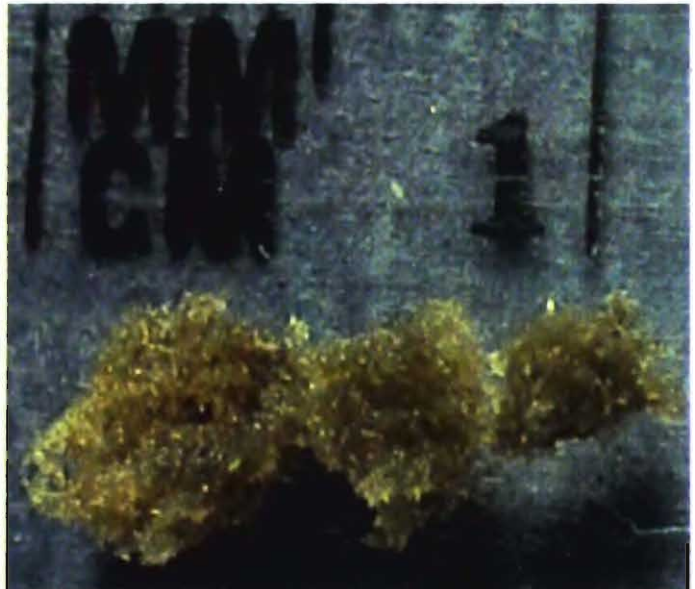
A. *Aka diagnoxa* P3116/1



B. *Calyx clavata* P299/1



C. *Petrosia mammiformis* P692/1



D. *Potamolepis barroisi* ZEV3925/7



E. *Hircinia cactiformis* P1826/1



F. *Hircinia pelliata* P1825/1

PLATE-XX

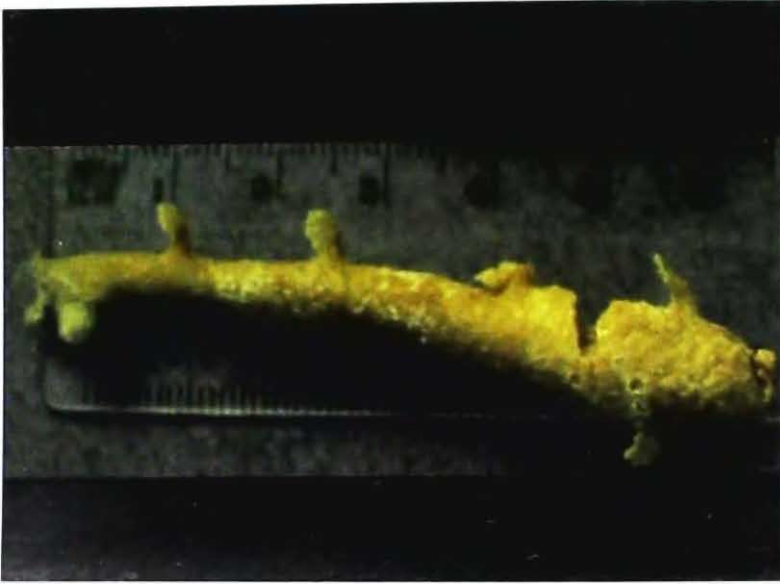
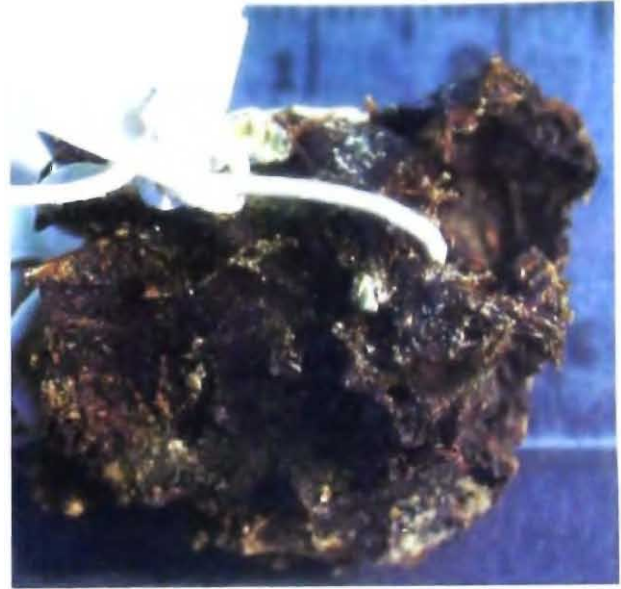
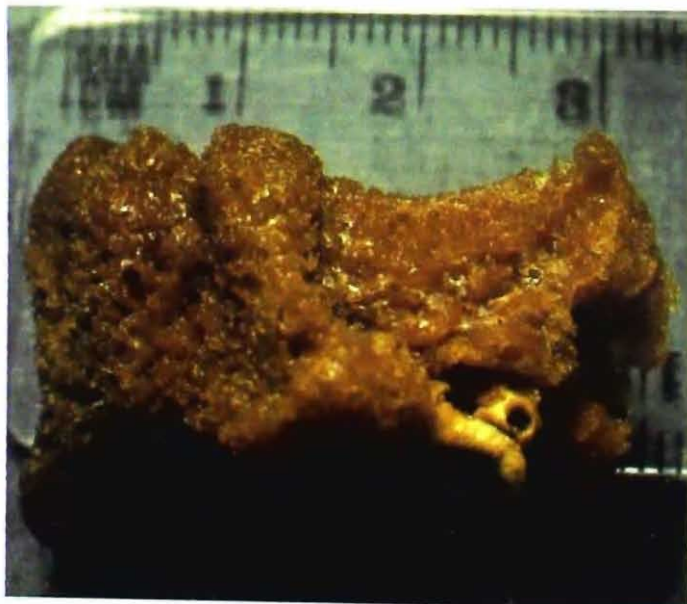
A. *Stenospongia aligera* P323/1B. *Thorectopsamma seychellensis* P3125/1C. *Phyllospongia madagascarensis*
var. *supraoculata* ZEV6468/7D. *Spongia officinalis*
var. *bibulus* P1828/1E. *Spongia officinalis* var. *fenestrata* P1829/1F. *Dysidea ramoglomerata* 8832/6

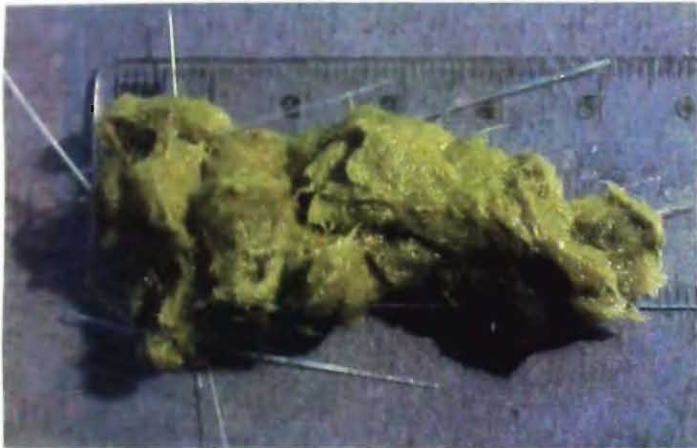
PLATE-XXI



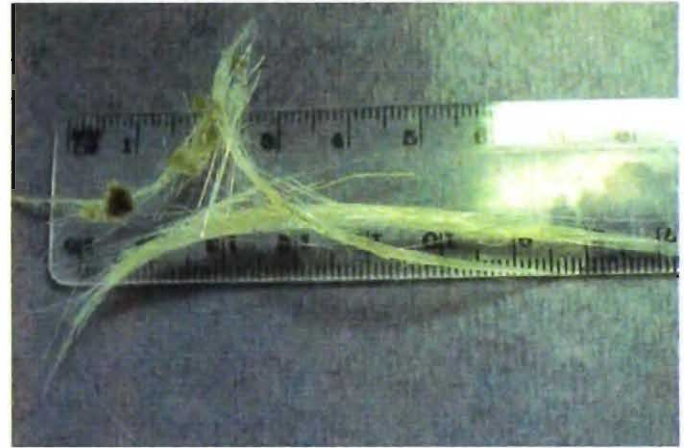
**A. *Hyalonema alcocki*
5342/7**



**B. *Hyalonema indicum andamanense*
5338/7**



**C. *Hyalonema indicum laccadivense*
5340/7**



**D. *Hyalonema maehrenthali*
3147/9**



**E. *Hyalonema masoni*
5346/7**



**F. *Hyalonema pirum*
5348/7**



G. *Pheronema circumpalatum* 9944/6



H. *Pheronema raphanus* 5345/7

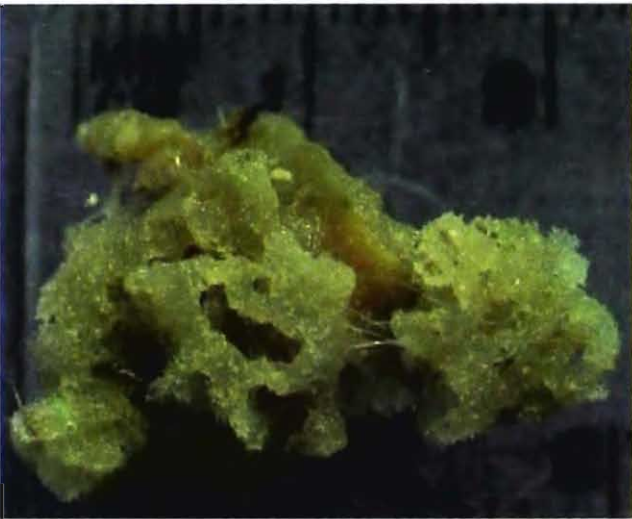
PLATE-XXII



A. *Semperella cucumis*
9941/6



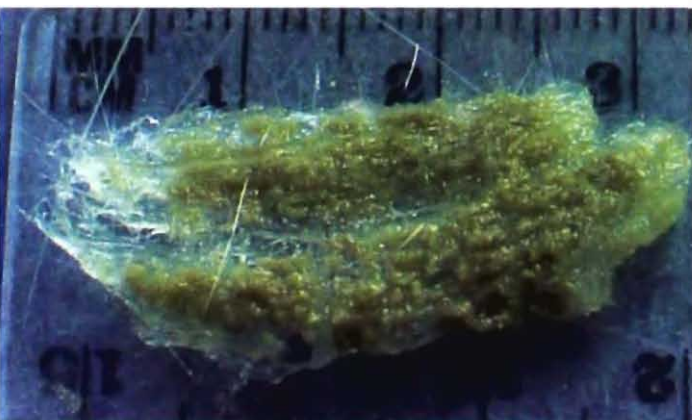
B. *Eurete annandelei*
ZEV1422/7



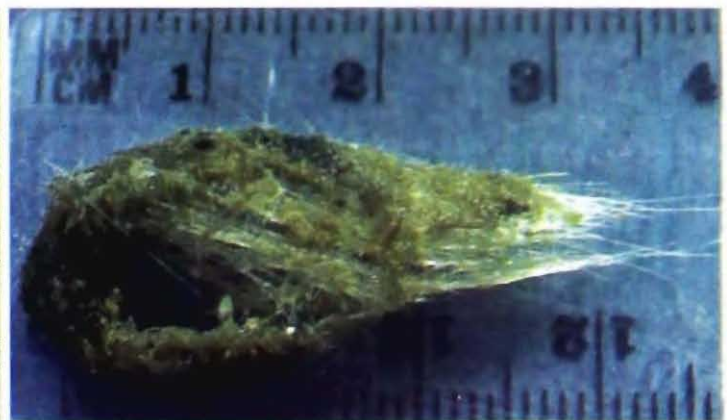
C. *Hexactinella minor*
P226/1



D. *Euplectella aspera*
5341/7

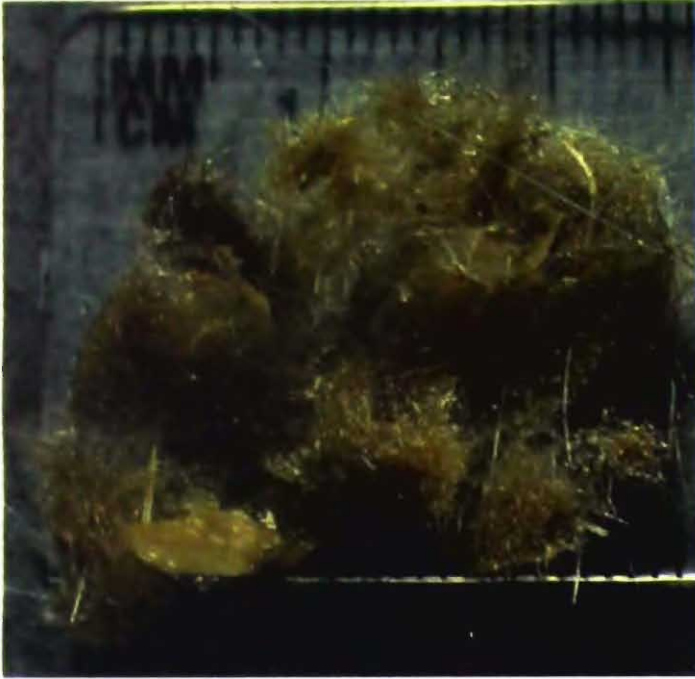


E. *Holascus robustus* 5326/7



F. *Holascus tenor* 5339/7

PLATE-XXIII



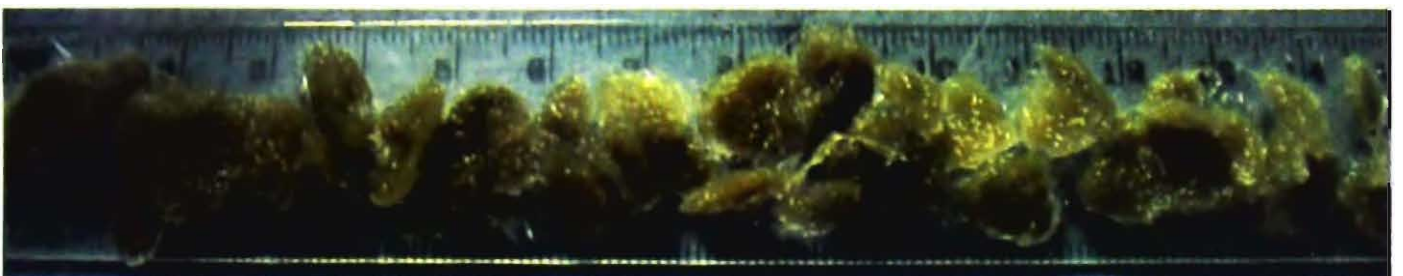
A. Placoplegma solutum
5335/7



B. Saccocalyx pedunculata
5322/7



C. Dictyaulus elegans
5323/7



D. Bathydorus laevis 5325/7