

Komson Hongpadharakiree 2009: Species Diversity of Sponges in Coral Reef Area of Mu Ko Mattra, Chumphon Province. Master of Science (Zoology), Major Field: Zoology, Department of Zoology. Thesis Advisor: Associate Professor Viyada Seehabutr, Ph.D. 179 pages.

Classification on species diversity of sponges in coral reef area along mu ko Mattra, Chumphon province. The sponges were randomly collected from reef flat and reef slope areas of ko Mattra, ko I-Raet, ko Lawa, ko Ka, ko Thonglang and ko Rang Ka Chio, including 13 study sites in April, 2007 by using SCUBA diving. Forty species of 23 genera from 19 families, seven orders of class Demospongiae were found: *Paratetilla bacca*, *Tetilla japonica*, *Pachastrissa nux*, *Cliona aurivilli*, *Spheciospongia congenera*, *Terpios granulosa*, *Clathria (Microciona) aceratoobtusa*, *Clathria (Thalysias) reinwardti*, *Thrinacophora incrustans*, *Coelosphaera (Coelosphaera) navicelligera*, *Monanchora* sp., *Iotrochota baculifera*, *Biemna fortis*, *Biemna* sp., *Mycale (Mycale) grandis*, *Mycale (Zygomycale) parishii*, *Dragmacidon australe*, *Axinyssa* sp., *Callyspongia (Cladochalina) diffusa*, *Callyspongia (Cladochalina) sp.1*, *Callyspongia (Cladochalina) sp.2*, *Haliclona (Halichoclona) sp.1*, *Haliclona (Halichoclona) sp.2*, *Haliclona (Halichoclona) sp.3*, *Haliclona (Gellius) toxia*, *Haliclona (Reniera) sp.*, *Haliclona (Soestella) sp.1*, *Haliclona (Soestella) sp.2*, *Gelliodes petrosioides*, *Oceanapia sagittaria*, *Neopetrosia carbonaria*, *Neopetrosia* sp., *Petrosia (Petrosia) hoeksemai*, *Petrosia (Petrosia) sp.1*, *Petrosia (Petrosia) sp.2*, *Xestospongia testudinaria*, *Xestospongia sp.1*, *Xestospongia sp.2*, *Pseudoceratina purpurea* and *Pseudoceratina* sp. In addition, it was found that *Coelosphaera (Coelosphaera) navicelligera* was a first recorded species in Thailand.

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Thesis Advisor's signature

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