

The following supplement accompanies the article

Sponge community composition in the Derawan Islands, NE Kalimantan, Indonesia

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Table S1. Systematic list of sponge species observed at the sampled locations in the Derawan Islands.

Demospongiae

Homosclerophorida

Plakinidae

Corticium niger Pulitzer-Finali, 1996

Plakortis lita (de Laubenfels, 1954)

Plakortis nigra Lévi, 1953

Spirophorida

Tetillidae

Cinachyrella australiensis (Carter, 1886)

Cinachyrella sp.

Paratetilla aff. *bacca* (Carter, 1883)

Astrophorida

Ancorinidae

Jaspis splendens (de Laubenfels, 1954)

Melophlus sarassinorum Thiele, 1899

Penares sollasi Thiele, 1900

Rhabdastrella globostellata (Carter, 1883)

Stelletta clavosa Ridley, 1884

Stelletta sp.

Geodiidae

Erylus aff. *lendenfeldi* Sollas, 1888

Pachastrellidae

Stoeba aff. *exostotica* (Schmidt, 1868)

Hadromerida

Clionaidae

Sphaciospongia vagabunda (Ridley, 1884)

Placospongiidae

Placospongia melobesioides Gray, 1867

Placospongia aff. *carinata* (Bowerbank, 1858)

Suberitidae

Aptos suberitoides Brønsted, 1934

Suberites aff. *diversicolor* Becking & Lim, 2009

Tethyidae

Tethya cf. *seychellensis* (Wright, 1881)

'Lithistid' Demospongiae

Theonellidae

Theonella swinhoei Gray, 1868

Theonella mirabilis (de Laubenfels, 1954)

Scleritodermidae

Aciculites aff. *ciliate* (Wilson, 1925)

Poecilosclerida

Microcionina

Microcionidae

Clathria (*Clathria*) *basilana* Lévi, 1961

Clathria (*Isociella*) *eccentrica* (Burton, 1934)

Clathria (*Thalysias*) *cervicornis* (Thiele, 1903)

Clathria (*Thalysias*) *reinwardti* Vosmaer, 1880

Clathria (*Thalysias*) *vulpina* (Lamarck, 1813)

Clathria (*Wilsonella*) *mixta* Hentschel, 1912

Echinochalina (*Protophlitaspongia*) *mucronata* (Topsent, 1897)

Raspailiidae

Echinodictyum mesenterinum (Lamarck, 1814)

Endectyon (*Endectyon*) *fruticosum aruense* Hentschel, 1912

Thrinacophora cervicornis Ridley & Dendy, 1886

Rhabderemiidae

Rhabderemia forcipula (Lévi & Lévi, 1989)

Rhabderemia aff. *indica* Dendy, 1905

Myxillina

Chondropsidae

Chondropsis sp.

Coelosphaeridae

Lissodendoryx (Acanthodoryx) fibrosa (Lévi, 1961)

Crambeidae

Monanchora dianchora de Laubenfels, 1935

Iotrochotidae

Iotrochota baculifera Ridley, 1884

Iotrochota purpurea (Bowerbank, 1875)

Mycalina

Desmacellidae

Biemna aff. *humilis* Thiele, 1903

Biemna trirhaphis (Topsent, 1897)

Biemna sp.

Esperiopsidae

Ulosa aff. *ada* (de Laubenfels, 1954)

Mycalidae

Mycale (Naviculina) flagellifera Vacelet & Vasseur, 1971

Mycale (Arenochalina) aff. *euplectelloides* (Row, 1911)

Mycale (Mycale) vansoesti Calcinai, Cerrano, Totti, Romagnoli & Bavestrello, 2006

Podospongiidae

Diacarnus megaspinorhabdosa Kelly-Borges & Vacelet, 1995

Isodictyidae

Coelocartheria agglomerans Azzini, Calcinai & Pansini, 2007

Halichondrida

Axinellidae

Ptilocaulis aff. *fusiformis* Lévi, 1967

Dictyonellidae

Acanthella cavernosa Dendy, 1922

Acanthella aff. *cavernosa* Dendy, 1922

Dictyonella sp.

Liosina paradoxa Thiele, 1899

Stylissa carteri Dendy, 1889

Stylissa sp.

Halichondriidae

Axinyssa aff. *aplysinoides* Dendy, 1922

Axinyssa spp.

Halichondria cartilaginea Esper, 1794

Halichondria (*Halichondria*) sp.

Heteroxyidae

Didiscus sp.

Higginsia mixta Hentschel, 1912

Myrmekioderma granulata (Esper, 1794)

Agelasida

Agelasidae

Agelas ceylonica Dendy, 1905

Agelas aff. *nemoechinata* Hoshino, 1985

Agelas nakamurai Hoshino, 1985

Haplosclerida

Haplosclerina

Callyspongiidae

Callyspongia (*Cladochalina*) *aerizusa* Desqueyroux-Faundez, 1984

Callyspongia (*Cladochalina*) aff. *confoederata* Ridley, 1884

Callyspongia (*Cladochalina*) *joubini* (Topsent, 1897)

Callyspongia (*Cladochalina*) *samarensis* (Wilson, 1925)

Callyspongia (*Cladochalina*) aff. *subarmigera* (Ridley, 1884)

Callyspongia (*Toxohalina*) aff. *ramosa* (Gray, 1843)

Callyspongia (*Euplacella*) *biru* de Voogd, 2004

Callyspongia spp.

Chalinidae

Chalinula confusa (Dendy, 1922)

Chalinula hooperi (Bakus & Nishiyama 2000)

Cladocroce acuelata Pulitzer-Finali, 1982

Cladocroce sp.

Haliclona (*Gellius*) aff. *amboinensis* Lévi, 1959

Haliclona (*Gellius*) *cymaeformis* (Esper, 1794)

Haliclona (*Gellius*) sp.

(*Haliclona* (*Halichoclona*) *vanderlandi* de Weerd & van Soest, 2001)

Haliclona (Reniera) fascigera Hentschel, 1912
Haliclona (Reniera) poseidon (de Laubenfels, 1954)
Haliclona (Soestella) sp.
Haliclona spp.

Niphatidae van Soest, 1980

Amphimedon paraviridis Fromont, 1988
Cribochalina sp.
Dasychalina fragilis Ridley & Dendy, 1886
Gelliodes fibulata (Carter, 1881)
Gelliodes aff. *hamata* (Thiele, 1903)
Gelliodes spp.
Niphates olemda (de Laubenfels, 1954)
Niphates spp.
Pachychalina sp. Schmidt, 1868

Petrosina

Phloeodictyidae

Aka sp.
Oceanapia sagittaria Sollas, 1902

Petrosiidae

Acanthostrongylophora ingens (Thiele, 1899)
Neopetrosia chaliniformis (Thiele, 1899)
Neopetrosia aff. *carbonaria* (Lamarck, 1814)
Neopetrosia spp.
Petrosia (Petrosia) alfiani de Voogd & van Soest, 2002
Petrosia (Petrosia) hoeksemai de Voogd & van Soest, 2002
Petrosia (Petrosia) aff. *microxea* (Vacelet, Vasseur & Lévi, 1976)
Petrosia (Petrosia) nigricans Lindgren, 1897
Petrosia (Strongylophora) corticata (Wilson, 1925)
Petrosia (Strongylophora) aff. *strongylata* Thiele, 1903
Xestospongia aff. *mammillata* Pullitzer-Finali, 1982
Xestospongia vansoesti Bakus & Nishiyama, 2000
Xestospongia testudinaria (Lamarck, 1813)
Xestospongia spp.

Dictyoceratida

Irciniidae Gray, 1867

Ircinia ramosa Keller, 1889

Ircinia spp.

Thorectidae Bergquist, 1978

Thorectinae

Cacospongia mycofijiensis (Kakou, Crews & Bakus, 1987)

Dactylospongia elegans (Thiele, 1899)

Fascaplysinopsis reticulata (Hentschel, 1912)

Hyrtios erectus Keller, 1889

Hyrtios reticulatus Thiele, 1899

Hyrtios sp.

Luffariella variabilis (Polejaeff, 1884)

Semitaspongia sp.

Phyllospongiinae

Carteriospongia foliascens (Pallas, 1766)

Lendenfeldia sp.

Phyllospongia papyracea (Esper, 1806)

Phyllospongia aff. *lamellosa* (Esper, 1794)

Strepsichordaia aliena Wilson, 1925

Spongiidae

Hippospongia sp.

Leiosella ramosa Bergquist, 1995

Spongia (*Spongia*) *ceylonensis* Dendy, 1905

Dysideidae

Dysidea arenaria Bergquist, 1965

Dysidea frondosa Bergquist, 1995

Dysidea granulosa Bergquist, 1965

Dysidea sp.

Eurysspongia sp.

Lamellodysidea herbacea (Keller, 1889)

Dendroceratida

Darwinellidae

Chelonaplysilla aff. *violacea* (Lendenfeld, 1883)

Dictyodendrillidae Bergquist, 1980

Igernella mirabilis Lévi, 1961

Verongida

Aplysinellidae

Suberea sp.

Ianthellidae Hyatt, 1875

Ianthella basta (Pallas, 1766)

Pseudoceratinidae Carter, 1885

Pseudoceratina aff. *verrucosa* Bergquist, 1995

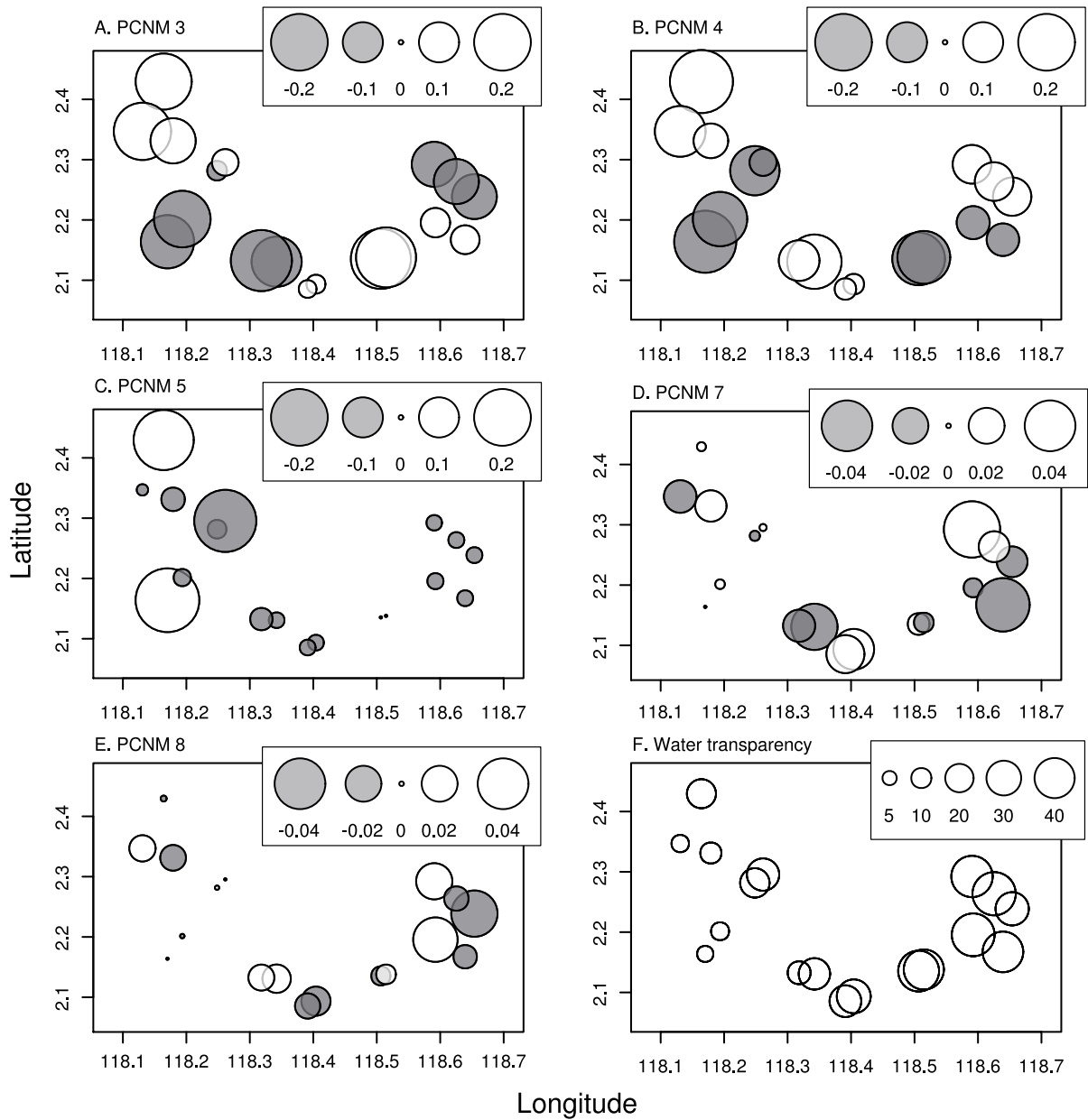


Fig. S1. Scores for (A) principal coordinates of neighbour matrices (PCNM) 3 (range = -0.23 to 0.22 , $F = 1.587$, $R^2_{\text{adj}} = 0.017$, $p = 0.022$), (B) PCNM 4 (range = -0.24 to 0.25 , $F = 1.753$, $R^2_{\text{adj}} = 0.021$, $p = 0.005$), (C) PCNM 5 (range = -0.24 to 0.25 , $F = 1.617$, $R^2_{\text{adj}} = 0.017$, $p = 0.012$), (D) PCNM 7 (range = -0.04 to 0.05 , $F = 1.480$, $R^2_{\text{adj}} = 0.014$, $p = 0.038$), (E) PCNM 8 (range = -0.03 to 0.03 , $F = 1.537$, $R^2_{\text{adj}} = 0.016$, $p = 0.013$) and (F) water transparency/visibility (range in visibility = 6.5 to 46.5 m). For (A) to (E), open symbols indicate positive values and shaded symbols negative values. The size of the symbol is proportional to the score. Large open symbols, therefore, have similar PCNM scores and very different scores from large shaded symbols. Note that significant PCNMs represent intermediate scale variation