

COMMONWEALTH  OF AUSTRALIA

Commonwealth Scientific and Industrial Research Organization

Division of Fisheries and Oceanography

REPORT 28

CHECK - LIST OF DINOFLAGELLATES
RECORDED FROM THE INDIAN OCEAN

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Cronulla, Sydney
1963

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INTRODUCTION

Because of the international interest in the Indian Ocean as an object of study by oceanographers from various countries of the world, it seemed opportune to scan previous work which has been carried out in the region. Phytoplankton studies have been considerable, and because many of the papers are not easy of access, a check-list of previous records from the Indian Ocean region has been prepared. It is hoped that this check-list will prove useful to phytoplanktologists working on dinoflagellates collected from the Indian Ocean region during the SCOR-UNESCO project in the Indian Ocean (1959-1965).

Genus AMPHIDINIUM

Amphidinium extensum Wulff, 1916

Matzenauer, 1933; Indian Ocean

A. globosum Schroeder, 1911

Matzenauer, 1933; Indian Ocean

A. turbo Kofoid, 1922

Matzenauer, 1933; Indian Ocean

Genus AMPHISOLENIA

Amphisolenia bidentata Schroeder, 1900

Ostenfeld and Schmidt, 1901; Red Sea, Gulf of Aden
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean to Sumatra

Karsten, 1907; East African Coast, Indian Ocean

Ostenfeld, 1915; Boeton Strait

Matzenauer, 1933; Indian Ocean

Subrahmanyam, 1958; Arabian Sea

Wood, 1962; Indian Ocean, Java Seas, Timor Sea, Arafura Sea

When citing this report abbreviate as follows:

C.S.I.R.O. Aust. Div. Fish. Oceanogr. Rep. No. 28

Amphisolenia bifurcata Murray and Whitting, 1899

Karsten, 1907; Indian Ocean

A. brevicauda Kofoid, 1907

Wood, 1962; Indian Ocean

A. claviceps Kofoid, 1907

Wood, 1962; Indian Ocean

A. elongata Kofoid and Skogsberg, 1928

Subrahmanyam, 1958; Arabian Sea

A. globifera Stein, 1883

Cleve, 1901; Malaya

Cleve, 1903; Red Sea, Arabian Sea

Wood, 1962; Indian Ocean

A. inflata Murray and Whitting, 1899

Cleve, 1903; Arabian Sea

Schroeder, 1906; G. of Aden, Indian Ocean to Sumatra

A. lemmermanni Kofoid, 1907

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

A. palaeotheroides Kofoid, 1907

Wood, 1962; Indian Ocean

A. palmata Stein, 1883

Cleve, 1900, 1901; Red Sea, Arabian Sea, Indian Ocean

Cleve, 1903; Red Sea, Arabian Sea, G. of Aden

Schroeder, 1906; G. of Aden, Arabian Sea

Karsten, 1907; Indian Ocean

A. rectangulata Kofoid, 1907

Wood, 1962; Indian Ocean

Amphisolenia schauinslandi Lemmermann, 1899

Ostenfeld and Schmidt, 1901; G. of Aden
Schroeder, 1906; Indian Ocean
Matzenauer, 1933; G. of Aden, Indian Ocean
Ballantine, 1961; Zanzibar
Wood, 1962; Indian Ocean

A. schroederi Kofoid, 1907

Wood, 1962; Indian Ocean

A. thrinax Schütt, 1895

Ostenfeld and Schmidt, 1901; Arabian Sea
Cleve, 1901; Arabian Sea
Schroeder, 1906; Arabian Sea, Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

Genus BLEPHAROCYSTA

Blepharocysta paulseni Schiller, 1937

Wood, 1962; Indian Ocean

B. splendor maris Ehrenberg, 1873

Ostenfeld and Schmidt, 1901; G. of Aden
Schroeder, 1906; Red Sea, G. of Aden
Wood, 1962; Indian Ocean

Genus CENTRODINIUM

Centrodinium eminens Bohm, 1933

Wood, 1962; Indian Ocean(N.E.)

C. intermedium Pavillard, 1930

Wood, 1962; Indian Ocean (N.E.)

Genus CERATIUM

Geratium arcticum (Ehr.) Cleve, 1901

Wood, 1961; Indian Ocean

C. arietinum Cleve, 1900b; South Indian Ocean

Cleve, 1901; Arabian Sea, Indian Ocean
Schroeder, 1906; Indian Ocean
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; Cape Inscription, Western Australia

C. axiale Kofoid, 1907

Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; West of King I.

C. azoricum Cleve, 1900b; South Indian Ocean

Cleve, 1901, 1903; Indian Ocean, Arabian Sea
Schroeder, 1906; Red Sea, Arabian Sea, Colombo-Sumatra
Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; south and west coasts of Australia, Indian Ocean

C. belone Cleve, 1900

Cleve, 1901; Indian Ocean
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea
Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. bigelowi Kofoid, 1907

Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. brachyceros Daday, 1907; tropical lakes of Africa and Asia

Schroeder, 1914; East Africa

Ceratium breve (Ostenfeld and Schmidt) Schroeder, 1906

Ostenfeld and Schmidt, 1901 (as C. tripos v. breve);
Red and Arabian Seas
Schroeder, 1906; Arabian Sea
Karsten, 1907 (as C. tripos azoricum); Indian Ocean
Ostenfeld, 1915; Boeton Strait
Steenmann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; eastern Indian Ocean
Ballantine, 1961; Zanzibar

C. bucephalum (Cleve) Cleve, 1901

Cleve, 1901, 1903 (as C. heterocamptum Jörg.);
Arabian Sea, south Indian Ocean
Ostenfeld and Schmidt, 1901 (as C. heterocamptum);
G. of Aden
Schroeder, 1906; Arabian Sea
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. buceros Zacharias, 1905

v. tenue (Ost. and Schmidt) Jörg., 1911

Ostenfeld and Schmidt, 1901 (as C. tenue n. sp.); Red Sea
Steenmann Nielsen, 1939 (as C. tenue); Indian Ocean
Wood, 1954; west and south Australia: 1960; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

v. molle (Kofoid) Jørgensen, 1911

Schroeder, 1906 (as C. undulatum); Indian Ocean
Karsten, 1907 (as C. tripos inversum, and C. tripos buceros) Indian Ocean
Steenmann Nielsen, 1939 (as C. molle); Indian Ocean
Wood, 1954; C. Inscription to C. Leeuwin: 1962; Indian Ocean

C. candelabrum (Ehr.) Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean, Malaya
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea, Indian
Ocean, Singapore, Sunda Sea
Ostenfeld, 1915; Boeton Str.
Steenmann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

Ceratium candelabrum (contd)

f. depressum Pouchet, 1883

Karsten, 1907; south Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; southern Australia, Bass Strait to Albany:
1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

C. carriense Gourret, 1883 (and vars.)

Cleve, 1900, 1901, 1903 (as C. volans); Red Sea, G. of
Aden, Arabian Sea, Malaya
Ostenfeld and Schmidt, 1901 (as C. volans, C. patentis-
simum); Red Sea
Schroeder, 1906 (as C. ceylonicum, n. sp., C. elegans,
C. patentissimum); Fremantle Harbour, G. of
Aden, Indian Ocean
Karsten, 1907 (as C. tripos volans, etc.); Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1955; west and south coasts of Australia:
1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

C. cephalotum (Lemm.) Jørg., 1911

Schroeder, 1906 (as C. gravidum v. hydrocephala); Ceylon
to Sumatra
Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. concilians Jørg., 1920

Karsten, 1909; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; west of Bass Str., Indian Ocean

C. contortum (Gourret) Cleve, 1900a; Arabian Sea, Red Sea,
Indian Ocean

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean
Schroeder, 1906 (as C. subcontortum); Arabian Sea,
Fremantle, Indian Ocean, Singapore
Karsten, 1907; Indian Ocean
Czapek, 1909 (as C. arcuatum f. contortum); Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

Ceratium contrarium (Gourret) Pav., 1905

- Cleve, 1900a, 1901 (as C. flagelliferum); Red Sea,
Indian Ocean, Malaya
Schroeder, 1906; Indian Ocean east of Colombo
Karsten, 1907 (as C. tripos flagelliferum v. undulata);
Indian Ocean
Ostenfeld, 1915 (as C. inflexum); Boeton Str.
Stemann Nielsen, 1939; Indian Ocean
Wood, 1954 (as C. trichoceros v. contrarium): 1962;
Indian Ocean

C. curvicolne v. Daday, 1888

- Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea

C. declinatum Karsten, 1907 (and as C. tripos heterocamptum);
Indian Ocean

- Stemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. deflexum (Kofoid) Jørgensen, 1911

- Schroeder, 1906 (as C. recurvatum); east of Ceylon
Ostenfeld, 1915; Boeton Str.
Stemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. dens Ostenfeld and Schmidt, 1901; Red Sea, Arabian Sea

- Cleve, 1903; Red Sea, Arabian Sea
Schroeder, 1906; Red Sea, G. of Aden, Indian Ocean
Karsten, 1907; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Stemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. digitatum Schütt, 1895

- Karsten, 1907; Indian Ocean
Stemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

Ceratium euarquatum Jörg., 1920

Schroeder, 1906 (as C. inflexum (Gour.) Schr.); Indian Ocean

Karsten, 1907; Indian Ocean

Steemann Nielsen, 1939; Indian Ocean

Wood, 1962; Indian Ocean

C. extensum (Gourret) Cleve, 1901

Cleve, 1901, 1903; Red Sea, Arabian Sea, Malaya

Ostenfeld and Schmidt, 1901 (as C. fusus v. extensa);
Red Sea, G. of Aden

Schroeder, 1906; Arabian Sea, G. of Aden, Singapore,
Sunda Sea

Ostenfeld, 1915; Boeton Str.

Steemann Nielsen, 1939; Indian Ocean

Wood, 1954, 1962; west of Bass Str., Indian Ocean, west
of Australia

f. strictum

Ostenfeld 1915; Boeton Str.

Wood, 1954, 1962; Indian Ocean

C. falcatifforme Jörg. 1920

Karsten, 1907; Indian Ocean

Steemann Nielsen, 1939; Indian Ocean

Wood, 1954, 1962; Indian Ocean

C. falcatum (Kofoid) Jörg., 1920

Cleve, 1900a (as C. pennatum); Arabian Sea, Indian Ocean,
Red Sea

Karsten, 1907 (as C. pennatum f. falcatum); Indian Ocean

Steemann Nielsen, 1939; Indian Ocean

Wood, 1954; 1962; west of Bass Str., Indian Ocean

Ballantine, 1961; Zanzibar

C. filicorne Steemann Nielsen, 1934

Steemann Nielsen, 1939; Indian Ocean

C. furca (Ehr.) Clap. and Lach.

Schroeder, 1906; Red Sea, G. of Aden east to Sunda Sea

Ceratium furca (contd)

v. eugrammum (Ehr.) Jb'rg., 1911

Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1954; Swan R. to Kangaroo I.
Ballantine, 1961; Zanzibar

v. berghi (Jb'rg.) Schiller, 1911

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Malaya
Schroeder, 1906; N.E. Indian Ocean
Czapek, 1909; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; 1962; Bass Strait, Southern and Indian
Oceans

C. fusus (Ehr.) Dujardin, 1841

Cleve, 1900 a,b, 1901; Indian Ocean, Red Sea
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea,
N.E. Indian Ocean
Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; south and west coasts of Australia;
1962; Indian Ocean
Subrahmanyam, 1954; Arabian Sea
Ballantine, 1961; Zanzibar

C. gallicum Kofoid, 1907

Schroeder, 1906 (as C. hundhauseni); Indian Ocean
Karsten, 1907 (as C. tripos macroceros v. tenuissima);
Indian Ocean
Ostenfeld, 1915; Boeton Str.
Wood, 1954, 1962; south and west coasts of Australia,
Indian Ocean
Subrahmanyam, 1958 (as C. macroceros v. gallicum);
Arabian Sea

C. geniculatum (Lemm.) Cleve, 1901

Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

Ceratium gibberum Gourret, 1883

Ostenfeld and Schmidt, 1901 (as C. curvicorne Daday)
Cleve; Red Sea
Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea
Schroeder, 1906; Indian Ocean, Fremantle Harbour
Karsten, 1907; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. gravidum Gourret, 1883

Ostenfeld and Schmidt, 1901; G. of Aden, Red Sea
Cleve, 1901, 1903; Red Sea, Arabian Sea, Indian Ocean
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean
Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; west of Bass Strait; 1962; Indian Ocean

C. hexacanthum Gourret, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1901, 1903 (as C. reticulatum (Pouchet));
Red Sea, Arabian Sea, Indian Ocean, Malaya
Schroeder, 1906 (as C. reticulatum); Indian Ocean
Karsten, 1907; Indian Ocean
Ostenfeld, 1915 (as C. reticulatum); Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Indian Ocean to Bass Str.

C. hirundinella (O.F.M.) Bergh, 1882

West, 1907; Victoria Nyanza
Ostenfeld, 1909, Tanganyika
Woloszynska, 1912; Java
Schroeder, 1914; East Africa
Wood, 1954; Swan River, West Australia

C. horridum Gran, 1902

Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. humile Jørg., 1911

Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

Ceratum incisum (Karsten) Jörg. 1911

Schroeder, 1906; Red Sea
Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. inflatum (Kofoid) Jörg. 1911

Schroeder, 1906; N.E. Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. karsteni Pav., 1907

Ostenfeld and Schmidt, 1901 (as C. tripos v. arcuata);
Red Sea, G. of Aden
Cleve, 1901, 1903 (as C. arcuatum Gourret); Red Sea,
G. of Aden, Arabian Sea
Schroeder, 1906 (as C. arcuatum); Red Sea, G. of Aden,
Arabian Sea, Indian Ocean
Karsten, 1907 (as C. tripos schranki); Indian Ocean
Czapek, 1909 (as C. arcuatum); Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

C. kofoidi Jörg., 1911

Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. limulus Gourret, 1883

Ostenfeld and Schmidt, 1901; Arabian Sea
Cleve, 1901, 1903; Red Sea, Malaya
Schroeder, 1906; Arabian Sea
Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans

C. lineatum (Ehr.) Cleve, 1899

Cleve 1900a,b (probably in part = C. pentagonum); South
Indian Ocean, Red Sea, Arabian Sea, Malaya

Ceratium lineatum (contd)

- Schroeder, 1906 (= C. pentagonum); Red Sea, G. of Aden,
Arabian Sea
Wood, 1954, 1960; Subantarctic Convergence, central
Indian Ocean

C. longinum Karsten, 1906

- Schiller, 1937; Indian Ocean

C. longipes (Bailey) Gran, 1902

- Subrahmanyam, 1958; Arabian Sea

C. longirostrum Gouret, 1883

- Ostenfeld, 1915; Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. longissimum (Schroeder) Kofoid, 1907

- Steemann Nielsen, 1939; Indian Ocean

C. lunula Schimper, 1900

- Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans
Subrahmanyam, 1958; Arabian Sea

C. macroceros (Ehr.) Cleve, 1900

- Ostenfeld and Schmidt, 1901 (as C. macroceras); Red
Sea, G. of Aden
Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean, Malaya
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea,
Singapore, Fremantle
Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean
Ballantine, 1961; Zanzibar

Ceratium massiliense (Gourret) Jörg., 1911

- Schroeder, 1906 (as C. aequatoriale); Singapore, Red Sea, G. of Aden
Karsten, 1907 (as C. tripos longipes v. cristata, C. tripos flagelliferum v. crassa etc.); Indian Ocean
Ostenfeld, 1915; Boeton Str.
Stemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

v. macroceroides (Karst.) Jörg. 1911

- Wood, 1954; Great Australian Bight, coastal waters of west Australia south of Shark Bay (characteristic): 1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

C. minutum Jörg., 1920

- Schroeder, 1906; Fremantle
Wood, 1954, 1962; central and S.E. Indian Ocean, southwest coast of Australia

C. okamurai Schroeder, 1906; Indian Ocean, Arabian Sea

C. paradoxides Cleve, 1900

- Schroeder, 1906; Arabian Sea
Stemann Nielsen, 1939; Indian Ocean

C. pavillardii Jörg., 1911

- Stemann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans

C. pentagonum Gourret, 1883

- Cleve, 1900a (as C. lineatum v. robusta Cl.); south Indian Ocean
Ostenfeld and Schmidt, 1901 (as C. lineatum and v. robusta); Red Sea, G. of Aden
Cleve, 1903 (as C. lineatum v. longiseta Ost. and Sch.); Red Sea, Arabian Sea
Schroeder, 1906; Indian Ocean
Karsten, 1907; Indian Ocean
Stemann Nielsen, 1939 (as C. subrobustum); Indian Ocean
Wood, 1954, 1962; Heard I., Antarctic, Southern and Indian Oceans
Ballantine, 1961 (f. tenera); Zanzibar

Geratium platycorne v. Daday, 1888

Cleve, 1903; Arabian Sea
Karsten, 1907; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; west of Bass Str.

C. porrectum Karsten, 1907; Seychelles

Wood, 1962; Indian Ocean

C. praelongum (Lemm.) Kofoid, 1907

Ostenfeld and Schmidt, 1901 (as C. gravidum v. prae-
longum); Red Sea, Arabian Sea
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

C. pulchellum Schroeder, 1906; Arabian Sea

Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Wood, 1962; Indian Ocean (including C. eupulchellum)

v. semipulchellum Jb'rg. 1920

Steemann Nielsen, 1939 (as C. semipulchellum); Indian
Ocean

Subrahmanyam, 1958; Arabian Sea

Wood, 1962; Indian Ocean

Ballantine, 1961; Zanzibar

v. eupulchellum Jb'rg. 1920

Steemann Nielsen, 1939 (as C. pulchellum); Indian Ocean
Wood, 1962; Indian Ocean

C. ranipes Cleve, 1900, 1903; Arabian Sea, Malaya

Schroeder, 1906; G. of Aden

Karsten, 1907; Indian Ocean

Steemann Nielsen, 1939; Indian Ocean

Wood, 1954; S.W. Australia: 1962; Indian Ocean

C. reflexum Cleve 1900

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Cleve, 1903; Red Sea

Schroeder, 1906; N.E. Indian Ocean

Karsten, 1907; Indian Ocean

Steemann Nielsen, 1939; Indian Ocean

Wood, 1962; Indian Ocean

Ceratum schmidti Jörg., 1911

Ostenfeld, 1915; Boeton Str.
Bohm, 1931; Indian Ocean
Steenmann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. scapiforme Kofoid, 1907 (probably = C. falcatum Jörg.)

Steenmann Nielsen, 1939; Indian Ocean

C. schroeteri Schroeder, 1906; Arabian Sea

Wood, 1962; Indian Ocean

C. setaceum Jörg., 1911

Ostenfeld and Schmidt, 1901 (as C. lineatum v.
longisetum); Red Sea, G. of Aden
Schroeder, 1906; east Indian Ocean
Steenmann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

C. symmetricum Pav., 1905

Karsten, 1907; Indian Ocean
Steenmann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Port Fairy to Albany, Indian Ocean

C. teres Kofoid, 1907

Steenmann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Southern Ocean, Indian Ocean
Subrahmanyam, 1958; Arabian Sea

C. trichoceros (Ehr.) Kofoid, 1907

Cleve, 1900a, 1903 (as C. flagelliferum); Indian Ocean,
Red Sea, Arabian Sea
Ostenfeld and Schmidt, 1901 (as C. flagelliferum); Red Sea
Schroeder, 1906 (as C. flagelliferum); Red Sea to Singapore
Karsten, 1907 (as C. tripos flagelliferum); Indian Ocean
Steenmann Nielsen, 1939; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

Ceratium tripos (O.F. Müller) Nitzsch, 1817

Schroeder, 1906; Arabian Sea
Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Steemann Nielsen, 1939; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1954, 1962; Indian Ocean

C. vultur Cleve, 1900a; Red Sea, Indian Ocean

Cleve, 1900b, 1903 (as C. robustum Ost. and Sch.);
Red Sea, Arabian Sea, Malaya
Ostenfeld and Schmidt, 1901 (as C. robustum); Red Sea
Schroeder, 1906; Red Sea, Arabian Sea, G. of Aden,
Indian Ocean
Karsten, 1907 (as C. tripos robustum); Indian Ocean
Ostenfeld, 1915; Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Wood, 1962; Indian Ocean

v. sumatranum (Karst.); Steemann Nielsen, 1934

Ostenfeld and Schmidt (as C. vultur); Red Sea
Schroeder, 1906; Indian Ocean
Karsten, 1907 (as C. tripos vultur and v. sumatranum);
Indian Ocean
Ostenfeld, 1915 (as C. sumatranum); Boeton Str.
Steemann Nielsen, 1939; Indian Ocean
Wood, 1954; Southern and Indian Oceans
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

Genus CERATOCORYS

Ceratocorys armata (Schütt) Kofoid, 1910

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906 (as Goniaulax fimbriatum); Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

C. bipes (Cleve) Kofoid, 1910

Cleve, 1903 (as Goniiodoma bipes); Red Sea, Arabian Sea
Karsten, 1907 (as C. asymmetrica); Indian Ocean
Wood, 1962; Indian Ocean

Ceratocorys gouretti Paulsen, 1930

Ostenfeld and Schmidt, 1901 (as C. jourdani); Red Sea,
G. of Aden
Matzenauer, 1933 (as C. jourdani); Indian Ocean
Wood, 1954; west of Bass Str.: 1962, Indian Ocean

C. hirsuta Matzenauer, 1933; Indian Ocean

C. horrida Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1901, 1903; Red Sea, G. of Aden, Malaya,
Indian Ocean
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean
Karsten, 1907 (as v. africana); Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

Genus CITHARISTES

Citharistes apsteini Schütt, 1895

Wood, 1962; Indian Ocean

Genus CLADOPYXIS

Cladopyxis brachiolata Stein, 1883

Ostenfeld and Schmidt, 1901; G. of Aden
Cleve, 1901; Indian Ocean
Schroeder, 1906; G. of Aden, Indian Ocean

Genus CONGRUENTIDIUM

Congruentidium compressum Abe, 1927

Matzenauer, 1933; Indian Ocean

Genus DESMOCAPSA

Desmocapsa sp.

Subrahmanyam, 1958; Arabian Sea

Genus DINOPHYSIS

Dinophysis acuminata Clap. and Lach., 1859

Wood, 1954; Swan River, W. Australia

Subrahmanyam, 1958; Arabian Sea

D. acuta Ehr., 1839

Wood, 1954; south-west coast of Australia

D. arctica Mereschowsky, 1879

Wood, 1954; Heard I., Antarctic

D. antarctica Balech, 1957; Adelie Land

D. caudata Saville Kent, 1881

Cleve, 1900a, 1901; South Indian Ocean, Arabian Sea,
Indian Ocean

Ostenfeld and Schmidt, 1901 (as D. homunculus);
Arabian Sea

Schroeder, 1906 (and as D. homunculus); Arabian Sea

Karsten, 1907; Indian Ocean

Czapek, 1909 (as D. homunculus); Indian Ocean

Matzenauer, 1933; Indian Ocean

Wood, 1954; west and south coasts of Australia:

1962; Indian Ocean

Subrahmanyam, 1958; Arabian Sea

Ballantine, 1961; Zanzibar

D. diegensis Kofoid, 1907

Ostenfeld, 1915; Boeton Str.

D. exigua Kofoid and Skogsberg, 1928

Wood, 1962; Indian Ocean

Dinophysis fortii Pav., 1923

Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; southern Tasmania, Southern Ocean,
Indian Ocean

D. hastata Stein, 1883

Ostenfeld and Schmidt, 1901; G. of Aden, Red Sea
Cleve, 1901, 1903; Red Sea, Arabian Sea, G. of Aden,
Indian Ocean
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

D. hyalina Wood, 1962; Indian Ocean

D. miles Cleve, 1900a; Red Sea

Ostenfeld and Schmidt, 1901 (and as D. michaelis); Red Sea
Cleve, 1901, 1903; Red Sea, Arabian Sea, Malaya
Lemmermann, 1901; East Indies
Schroeder, 1906; Red Sea, Arabian Sea, G. of Aden,
Indian Ocean, Singapore
Czapek, 1909; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Java Seas, northern Australia
Ballantine, 1961; Zanzibar

D. nias Karsten, 1907; Indian Ocean

D. ovum Schütt, 1895

Ostenfeld and Schmidt, 1901; Aden
Karsten, 1907; Indian Ocean
Wood, 1954; Swan R., Antarctic: 1962, Indian Ocean
Subrahmanyam, 1958; Arabian Sea

D. parva Schiller, 1929

Wood, 1962; Indian Ocean

D. punctata Jörg., 1923

Matzenauer, 1933; Indian Ocean

D. rotundata Karsten, 1907 = Phalacroma rotundatum q.v.

Dinophysis sacculus Stein, 1883

Wood, 1954; Tasmania, Albany, W. Australia

D. schroederi Pav., 1909

Wood, 1962; Indian Ocean

D. schuetti Mur. and Whit., 1899

Cleve, 1901; Indian Ocean
Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

D. sphaerica Stein (em. Kof. and Skogs., 1928)

Cleve, 1900a, 1900b, 1903 (as D. vanhoeffeni); South
Indian Ocean, Red Sea
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Matzenauer, 1933; Indian Ocean
Wood, 1954; Swan R., Antarctic: 1962; Indian Ocean

D. tripos Gourret, 1883

Ostenfeld and Schmidt, 1901 (as D. homunculus v. tripos);
Red Sea
Cleve, 1903; Red Sea, G. of Aden, Arabian Sea
Ostenfeld, 1915 (as D. pedunculata); Boeton Str.
Wood, 1954; South Australia

D. truncata Cleve, 1900b; South Africa, South Indian Ocean

Wood, 1954; Subantarctic, Tasmania

D. tuberculata Mangin, 1912

Wood, 1954; Antarctic
Balech, 1958; Adelie Land

D. uracantha Stein, 1883

Ostenfeld and Schmidt, 1901; G. of Aden
Cleve, 1903; Red Sea
Schroeder, 1906; Indian Ocean
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

Genus DIPLOPSALIS

Diplopsalis lenticula Bergh 1882

- Cleve, 1900a, 1900b, 1901, 1903; South Indian Ocean,
Red Sea, G. of Aden, Arabian Sea,
Malaya, Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea, G. of Aden, Indian Ocean,
Arabian Sea
Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean
Ostenfeld, 1915 (as Peridinium asymmetricum); Boeton Str.
Wood, 1954, 1962; Antarctic, northern Australia, Indian
Ocean
Ballantine, 1961 (as Peridiniopsis asymmetrica); Zanzibar

D. minor Paulsen 1907

- Matzenauer, 1933 (as Peridinium asymmetricum); Indian
Ocean
Subrahmanyam, 1958 (as Glenodinium lenticula v.
asymmetrica); Arabian Sea
Wood, 1954, 1962; Antarctic, Indian Ocean
Balech, 1958 (as Diplopeltopsis); Adelie Land

D. pilula Ostenfeld, 1908

- Subrahmanyam, 1958 (as Glenodinium); Arabian Sea

D. orbicularis (Paulsen) Lebour, 1922

- Matzenauer, 1933; Indian Ocean
Wood, 1954; Antarctic, northern Australia

D. rotundata Lebour, 1922

- Wood, 1954; Swan R., Antarctic

D. saecularis Mur. and Whit., 1899

- Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea

Genus EXUVIAELLA

Exuviaella baltica Lohmann, 1908

- Wood, 1962; Indian Ocean

Exuviaella compressa (Bailey) Ost., 1903

Cleve, 1900b, 1901, 1903; Red Sea, G. of Aden, Indian Ocean, Malaya
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea, G. of Aden, Fremantle Harbour, Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1954; Fremantle Harbour; 1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

E. lenticulata Matzenauer, 1933; Indian Ocean

E. marina Cienkowski, 1881

Wood, 1962; Indian Ocean

E. mediterranea Schiller, 1928

Wood, 1962; Indian Ocean

E. oblonga Schiller, 1928

Matzenauer, 1933; Red Sea, G. of Aden

Genus GLENODINIOPSIS

Glenodiniopsis pretiosa Lindemann, 1931; Sumatra

Genus GLENODINIUM

Glenodinium cinctum Ehr. (dubious form)

West, 1909; Yan Yean reservoir, Victoria

G. elpatiewskyi (Ost.) Lemm. 1910

Lemm., 1910; Malaya: 1931 (as Peridinium); Indonesia

G. lindemanni Lefevre, 1932; Madagascar

G. penardi Lemm., 1900

Schroeder, 1914 (as Peridinium); East Africa

Glenodinium penardiforme (Lind.) Schiller, 1937

Lindemann, 1931 (as Peridinium); Indonesia

G. pulvisculus (Ehr.) Stein, 1883

West, 1907; Tanganyika

G. pygmaeum (Lind.) Schiller, 1937

Lindemann, 1931 (as Peridinium); Indonesia

G. quadridens Stein 1883

West, 1907 (as Peridiniopsis cunningtoni); Tanganyika

Woloszynska, 1912 (as P. treubi Wol. and P. wild-
manni Wol.) Java

Schroeder, 1914 (as Peridiniopsis cunningtoni);
Tanganyika

Lindemann, 1931 (as Peridinium and as P. wildemanni);
Indonesia

Lefevre, 1932; Asia

G. viguieri (Lefevre) Schiller, 1937; Madagascar

Genus GONIAULAX

Goniaulax alaskensis Kofoid, 1911

Wood, 1954, 1962; Antarctic, Indian Ocean

G. apiculata (Penard) Entz, 1904

Wood, 1962; Indian Ocean

G. birostris Stein, 1883

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Wood, 1954, 1962; off Port Fairy, Indian Ocean

Ballantine, 1961; Zanzibar

G. conjuncta Wood, 1954

Ballantine, 1961; Zanzibar

Goniaulax diegensis Kofoid, 1911

Wood, 1954, 1962; Swan R., west New Guinea, Indian Ocean
Subrahmanyam, 1958; Arabian Sea

G. digitale (Pouchet) Kofoid, 1911

Wood, 1954, 1962; Swan R., Indian Ocean

G. fragilis (Schütt) Kofoid, 1911

Wood, 1962; Indian Ocean

G. glyptorhynchus Mur. and Whit., 1899

Wood, 1962; Indian Ocean

G. highleyi Mur. and Whit., 1899

Cleve, 1901; Indian Ocean

G. hyalina Ostenfeld and Schmidt, 1901; G. of Aden

Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

G. jolliffei Mur. and Whit. 1899

Schroeder, 1906; Red Sea (probably does not = Ceratocorys
gouretti as Schiller, 1937, suggests)

G. kofoidi Pavillard, 1909

Wood, 1954; south of Port Fairy: 1962; Indian Ocean

G. longispina Lebour, 1925

Matzenauer, 1933; Indian Ocean

G. milneri (Mur. and Whit.) Kof., 1911

Wood, 1962; Indian Ocean

G. minima Matzenauer, 1933; Indian Ocean

Wood, 1954; Indian Ocean, south-west of Albany: 1962;
Indian Ocean

Goniaulax monacantha Pavillard, 1916

Wood, 1962; Indian Ocean

G. orientalis Lindemann, 1924

Matzenauer, 1933; Indian Ocean

G. ovalis Schiller, 1937

Matzenauer, 1933 (as G. ovata); Indian Ocean

G. pacifica Kofoid, 1907

Karsten, 1907 (as Steiniella cornuta); Indian Ocean

Wood, 1954; Southern Ocean, Port Fairy: 1962, Indian Ocean

G. polyedra Stein, 1883

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

G. polygramma Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Cleve, 1901, 1903; Red Sea, Arabian Sea, Indian Ocean

Matzenauer, 1933; Indian Ocean

Ostenfeld, 1915; Boeton Str.

Wood, 1954; south of Port Fairy: 1962; Indian Ocean

Ballantine, 1961; Zanzibar

G. scrippsae Kofoid, 1911

Wood, 1954, 1962; Swan R., Indian Ocean

Subrahmanyam, 1958; Arabian Sea

G. sphaeriodea Kofoid, 1911

Matzenauer, 1933; Indian Ocean

G. spinifera (Clap. and Lach.) Diesing, 1866

Schroeder, 1906 (as Geratocorys); Indian Ocean

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Wood, 1954; Antarctic Convergence: 1962; Indian Ocean

Ballantine, 1961; Zanzibar

Goniaulax turbynei Mur. and Whit., 1899

Schroeder, 1906; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Swan R., Indian Ocean

Genus GONIODOMA

Goniodoma polyedricum (Pouchet) Jörg., 1899

Cleve, 1900b, 1901, 1903 (as G. acuminatum); Red Sea,
Malaya, Indian Ocean
Ostenfeld and Schmidt, 1901 (as G. acuminatum); Red
Sea, G. of Aden
Schroeder, 1906; Red Sea, G. of Aden
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean
Ballantine, 1961; Zanzibar

G. sphaericum Mur. and Whit., 1899

Ostenfeld and Schmidt, 1899; G. of Aden, Red Sea
Matzenauer, 1933; Indian Ocean
Wood, 1954; west of Bass Str.

Genus GYMNASTER

Gymnaster pentasterias Schütt, 1895

Cleve, 1900, 1901; south Indian Ocean

Genus GYMNODINIUM

Gymnodinium bogoriense Klebs., 1912; Java

G. chuckwani Ballantine, 1961; Zanzibar

G. diploconus Schütt, 1895

Balech, 1958; Adelle Land

G. fusus Schütt, 1895

Karsten, 1907; Indian Ocean

Gymnodinium galaeiforme Matzenauer, 1933; Red Sea

Wood, 1962; Indian Ocean

G. gelbum Kofoid; 1931

Subrahmanyam, 1958; Arabian Sea

G. marinum Saville Kent, 1882

Subrahmanyam, 1958; Arabian Sea

Wood, 1962; Indian Ocean

G. mirabile Penard, 1891

Subrahmanyam, 1958; Arabian Sea

G. simplex (Lohmann) Kofoid and Swezy, 1921

Wood, 1962; Indian Ocean

G. splendens Lebour, 1925

Subrahmanyam, 1958; Arabian Sea

G. uberrimum (Allmann) Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

G. variable Herdman, 1924

Subrahmanyam, 1958; Arabian Sea

Genus GYRODINIUM

Gyrodinium aureum Conrad, 1926

Subrahmanyam, 1958; Arabian Sea

G. citrinum Kofoid, 1931

Subrahmanyam, 1958; Arabian Sea

G. fusiforme Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

Gyrodinium lingulifera Lebour, 1925

Subrahmanyam, 1958; Arabian Sea

G. obtusum (Schütt) Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

G. pepo (Schütt) Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

G. pingue (Schütt) Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

G. spirale (Bergh) Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

Genus HAPLODINIUM

Haplodinium antioliense Klebs, 1912; Java

Haplodinium spp. Subrahmanyam, 1958; Arabian Sea

Genus HEMIDINIUM

Hemidinium nasutum Stein, 1883

Wood, 1954; Swan R.

Genus HETERODINIUM

Heterodinium assymmetricum Kofoid and Adamson, 1933

Wood, 1954; Southern Ocean west of Bass Str.

H. australe Wood, 1962; Indian Ocean

H. blackmani (Mur. and Whit.) Kofoid, 1906

Schroeder, 1906; N.E. Indian Ocean
Karsten, 1907; Indian Ocean

Heterodinium dispar Kofoid and Adamson, 1933

Wood, 1962; Indian Ocean

H. doma (Mur. and Whit.) Kofoid, 1906

Wood, 1954, 1962; Southern Ocean west of Bass Str.,
Indian Ocean

H. rigdeni Kofoid, 1906

Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

H. scrippsii Kofoid, 1906

Wood, 1954; Southern Ocean west of Bass Str. :
1962; Indian Ocean

Genus HISTIONEIS

Histioneis caminus Bohm in Schiller, 1933; Indian Ocean

H. cerasus Bohm in Schiller, 1933; Indian Ocean
Wood, 1962; Indian Ocean

H. costata Kofoid and Michener, 1911

Wood, 1962; Indian Ocean

H. dolon Mur. and Whit., 1899

Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

H. elongata Kofoid and Michener, 1911

Schiller, 1933; Indian Ocean
Wood, 1962; Indian Ocean

H. fragilis Bohm in Schiller, 1933; Indian Ocean

H. gubernans Schütt, 1895

Schütt, 1896; Indian Ocean

H. helenae Mur. and Whit, 1899

Wood, 1962; Indian Ocean

Histioneis hyalina Kofoid and Michener, 1911

Schiller, 1933; Indian Ocean
Wood, 1962; Indian Ocean

H. inclinata Kofoid and Michener, 1911

Wood, 1962; Indian Ocean

H. longicollis Kofoid, 1907

Wood, 1962; Indian Ocean

H. milneri Mur. and Whit., 1899

Wood, 1962; Indian Ocean

H. mitchellana Mur. and Whit., 1899

Schroeder, 1906; Indian Ocean

H. panaria Kofoid and Skogsberg, 1928

Wood, 1962; Indian Ocean

H. pietschmanni Bohm in Schiller, 1933; Indian Ocean

H. remora Stein, 1883

Cleve, 1901; Arabian Sea, Indian Ocean
Wood, 1962; Indian Ocean

H. schilleri Bohm in Schiller, 1933; Indian Ocean

H. tubifera Bohm in Schiller, 1933; Indian Ocean

Wood, 1962; Indian Ocean

H. variabilis Schiller, 1933

Wood, 1962; Indian Ocean

Genus LISSODINIUM

Lissodinium schilleri Matzenauer, 1933; Indian Ocean

Genus MASSARTIA

Massartia glauca (Lebour) Schiller, 1933

Subrahmanyam, 1958; Arabian Sea

Genus MELANODINIUM

Melanodinium nigricans Schiller, 1937

Wood, 1962; Indian Ocean

Genus NOCTILUCA

Noctiluca miliaris Suriray, 1816

Prasad, 1958; Indian Ocean, coast of India
Subrahmanyam, 1958; Arabian Sea

Genus ORNITHOCERCUS

Ornithocercus cristatus Matzenauer, 1933; Indian Ocean

O. geniculatus Dangeard, 1927

Wood, 1962; Indian Ocean

O. heteroporus Kofoid, 1907

Matzenauer, 1933; Indian Ocean

O. magnificus Stein, 1883

Cleve, 1900a, 1901, 1903 (as Histioneis magnifica);
Red Sea, Arabian Sea, Indian Ocean, Malaya
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean, Fremantle Harbour
Karsten, 1907; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

Ornithocercus quadratus Schütt, 1900

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1903; Red Sea, Arabian Sea
Schroeder, 1906; Arabian Sea; Indian Ocean
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Southern and Indian Oceans

O. splendidus Schütt, 1895

Schroeder, 1906; N.E. Indian Ocean
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

O. steini Schütt, 1895

Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

O. thurni (Schmidt) Kof. and Skogsb., 1928

Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean
Ballantine, 1961; Zanzibar

Genus OXYRRHIS

Oxyrrhis marina Dujardin 1841

Subrahmanyam, 1958; Arabian Sea

Genus OXYTOXUM

Oxytoxum caudatum Schiller, 1937

Wood, 1962; Indian Ocean.

O. challengeroides Kofoid, 1907

Wood, 1962; Indian Ocean

Oxytoxum compressum Kofoid, 1907

Wood, 1962; Indian Ocean

O. constrictum Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea
Cleve, 1903; Arabian Sea
Schroeder, 1906; Arabian Sea
Wood, 1962; Indian Ocean

O. coronatum Schiller, 1937

Wood, 1962; Indian Ocean

O. curvatum Kofoid, 1911

Wood, 1962; Indian Ocean

O. diploconus Stein, 1883

Cleve, 1903; Arabian Sea
Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

O. elegans Pavillard, 1910

Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

O. gladiolus Stein 1883

Ostenfeld and Schmidt, 1901; Red Sea
Schroeder, 1906; Arabian Sea, Indian Ocean

O. milneri Mur. and Whit., 1899

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; N.E. Indian Ocean
Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

O. mitra (Stein) Schroeder, 1906; Arabian Sea

Wood, 1962; Indian Ocean

O. parvum Schiller, 1937

Wood, 1962; Indian Ocean

Oxytoxum reticulatum (Stein) Schlitt, 1896

Wood, 1962; Indian Ocean

O. sceptrum Stein, 1883

Cleve, 1901; Arabian Sea, Indian Ocean
Schroeder, 1906; Arabian Sea
Wood, 1962; Indian Ocean

O. scolopax Stein, 1883

Cleve, 1900a,b, 1901; south Indian Ocean, Arabian Sea,
Red Sea
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Arabian Sea, G. of Aden, Indian Ocean,
Fremantle
Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

O. sphaeroideum Stein, 1883

Cleve, 1900b; Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea
Wood, 1962; Indian Ocean

O. subulatum Kofoid, 1907

Wood, 1962; Indian Ocean

O. tessellatum Stein, 1883

Cleve, 1901, 1903; Red Sea, Arabian Sea
Ostenfeld and Schmidt, 1901; Red Sea; G. of Aden
Schroeder, 1906; Arabian Sea
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

O. turbo Kofoid, 1907

Wood, 1962; Indian Ocean

O. variabile Schiller, 1937

Wood, 1962; Indian Ocean

Genus PACHYDINIUM

Pachydinium indicum Matzenauer, 1933; Indian Ocean

Genus PARAHISTIONEIS

Parahistioneis acuta Bohm in Schiller, 1933; Indian Ocean

P. crateriformis (Stein) Kofoid, 1907

Cleve, 1901 (as Histioneis); Red Sea, G. of Aden
Ostenfeld and Schmidt, 1901 (as Histioneis), Red Sea,
G. of Aden

P. rotundata Kofoid and Michener, 1911

Subrahmanyan, 1958; Arabian Sea

Genus PERIDINIUM

Peridinium abei Paulsen, 1930

Matzenauer, 1933 (as P. biconicum Abe); Indian Ocean
Wood, 1954; Swan R.

P. achromaticum Levander, 1902

Matzenauer, 1933; Indian Ocean

P. adeliense Balech 1958; Adelie Land

P. adense Matzenauer, 1933; G. of Aden

P. affine Balech, 1958; Adelie Land (= P. pallidum)

P. africanoides Dangeard, 1927 (= P. steini)

Matzenauer, 1933; Indian Ocean

P. africanum Lemm., 1907; Madagascar, Malaya

West, 1907; Tanganyika
Schroeder, 1914; East Africa
Lindemann, 1931 (as P. ornamentosum); Java

Peridinium amplum Matzenauer, 1933; Indian Ocean

P. ampulliforme Wood, 1954; Swan R.

P. antarcticum Schimper 1907 (= P. depressum)

Balech, 1958; Adelle Land

P. applanatum Mangin, 1914

Balech, 1958; Adelle Land

P. archiovatum Balech, 1957

Balech, 1958; Adelle Land

P. avellana (Meunier) Lebour, 1925

Wood, 1954, 1962; Antarctic, Indian Ocean

P. baliense Lindemann, 1931; Malaya, Bali

P. berolinense Lemm., 1910

West, 1907; Tanganyika (doubtful)

P. biconicum Dangeard, 1927

Matzenauer, 1933; Indian Ocean

P. brachypus Schiller, 1937; Sumatra

P. breve Paulsen, 1907

Matzenauer, 1933; Indian Ocean

Wood, 1954; Antarctic, Heard I.

P. brevipes Paulsen, 1908

Wood, 1954; Antarctic, Heard I.

P. brochi Kofoid and Swezy, 1921

Subrahmanyam, 1958; Arabian Sea

Wood, 1962; Indian Ocean

f. inflatum Okamura, 1912

Matzenauer, 1933; Indian Ocean

Subrahmanyam, 1958; Arabian Sea

Peridinium bulla Meunier, 1910

Subrahmanyam, 1958; Arabian Sea

P. centenniale (Play) Lefevre, 1932

Lindemann, 1931; Indonesia

Lefevre, 1932; Malaya

P. cerasus Paulsen, 1907

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

P. charcoti Balech, 1958; Adelle Land

P. cinctum (O.F.M.) Ehr., 1838; Asia

Woloszynska, 1912; Java

Schiller, 1914 (as P. westi); East Africa

Lindemann, 1931; East Indies

v. tuberosum Meunier, 1919; Madagascar

P. claudicans Paulsen, 1907

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Wood, 1954; Southern Ocean, Swan R.: 1962; Indian Ocean

Subrahmanyam, 1958; Arabian Sea

P. colombense Matzenauer, 1933; Colombo Harbour

P. conicum (Gran) Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Ostenfeld, 1915; Boeton Str.

Matzenauer, 1933; Indian Ocean

Wood, 1954; Southern Ocean, Heard I.

Subrahmanyam, 1958; Arabian Sea

f. concava Matzenauer, 1933; Indian Ocean

f. guardafuiana Matz., 1933; Indian Ocean

P. conicoides Paulsen, 1905

Wood, 1954; Albany, Antarctic, Heard I.

Subrahmanyam, 1958; Arabian Sea

P. crassipes Kofoid, 1907

Karsten, 1907; Indian Ocean

Ostenfeld, 1915; Boeton Str.

Peridinium crassipes (contd)

Matzenauer, 1933 (as f. asymmetrica); Indian Ocean
Wood, 1954; west coast of Australia, Heard I., Antarctic:
1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. curtipes Jørgensen, 1913

Karsten, 1907; Indian Ocean
Matzenauer, 1933 (and as f. asymmetrica); Indian Ocean
Wood, 1954; Antarctic, Heard I.

P. curtum Balech, 1958; Adelie Land

P. curvipes Ostenfeld, 1906

Wood, 1954; Antarctic

P. decipiens Jørgensen, 1899

Matzenauer, 1933; Indian Ocean
Wood, 1954; Antarctic

P. depressum Bailey, 1855

Karsten, 1907; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933 (and f. antarctica); Indian Ocean
Wood, 1954, 1962; Antarctic, Heard I., Indian and
Southern Oceans
Subrahmanyam, 1958; Arabian Sea
Ballentine, 1961; Zanzibar

P. diabolus Cleve, 1900a ; Red Sea

Cleve, 1900b, 1901, 1903; South Indian Ocean, G. of Aden,
Arabian Sea, Indian Ocean, Malaya
Ostenfeld and Schmidt, 1901; G. of Aden
Schroeder, 1906; east Indian Ocean
Karsten, 1907 (as P. longipes); Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Antarctic, Heard I., Indian Ocean

P. divergens Ehr., 1840

Cleve, 1900a, 1903; Red Sea, Arabian Sea, Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; G. of Aden to Malaya, Fremantle
Karsten, 1907; Indian Ocean

Peridinium divergens (contd)

Ostenfeld, 1915; Boston Str.
Matzenauer, 1933 (as P. scutipes); Indian Ocean
Wood, 1954, 1962; Albany, South Australia, Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. elegans Cleve, 1900a; Red Sea

Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Malaya
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea to Malaya
Matzenauer, 1933 (and f. granulata); Indian Ocean
Wood, 1962; Indian Ocean

P. excentricum Paulsen, 1907

Matzenauer, 1933; Malacca Str.
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

P. fatulipes Kofoid, 1907

Matzenauer, 1933 (and as P. tumidum Okam.); Indian Ocean
Wood, 1962; Indian Ocean

P. gatunense

v. madagascarense Lefevre, 1927; Madagascar

P. gibbosum Matzenauer, 1933; Indian Ocean

P. globulus Stein, 1883

Cleve, 1900a, 1901, 1903; Red Sea, G. of Aden to Malaya
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea to Malaya, Fremantle
Karsten, 1907; Indian Ocean
Matzenauer, 1933 (and as P. sphaeroides); Indian Ocean
Wood, 1954, 1962; Port Fairy to Fremantle Harbour,
Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. grande Kofoid, 1907

Karsten, 1907; Indian Ocean
Czapek, 1909; Indian Ocean

Peridinium grande (contd)

Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Great Australian Bight, Indian Ocean
Subrahmanyen, 1954; Arabian Sea

P. grani Ostenfeld, 1906

Matzenauer, 1933; Indian Ocean
Subrahmanyen, 1958; Arabian Sea
Wood, 1954, 1962; Heard I., Indian Ocean

P. gutwinskyi Woloszynska 1912; Java, Madagascar

Lindemann, 1931; Indonesia

P. heteracanthum Dangeard, 1927

Matzenauer, 1933; Indian Ocean

P. heteroconicum Matzenauer, 1933; Indian Ocean

P. hirobis Abé, 1927

Wood, 1962; Indian Ocean

P. humile Schiller, 1937

Matzenauer, 1933 (as P. decipiens); Indian Ocean
Subrahmanyen, 1958; Arabian Sea

P. hyalinum Meunier, 1910

Subrahmanyen, 1958; Arabian Sea

P. inconspicuum Lindemann, 1931; Malaya

Woloszynska, 1912, 1932 (as P. parvulum and P. steinmanni);
Malaya

P. keyense Nygaard, 1926; Malaya

P. leonis Pavillard, 1916

Matzenauer, 1933; Indian Ocean
Subrahmanyen, 1958; Arabian Sea
Wood, 1962; Indian Ocean

Peridinium levanderi Abé, 1927

Matzenauer, 1933; Indian Ocean

P. marchicum Lemm. 1906

Woloszynska, 1912; Java

P. mariebourae Paulsen, 1930

Schiller, 1937; Indian Ocean

P. mediochre Balech, 1958; Adelle Land

P. minutum Kofoid, 1907

Subrahmanyam, 1958; Arabian Sea

P. mite Pavillard, 1916

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Wood, 1954; Antarctic, Heard I.

P. monacanthum Brock, 1910

Wood, 1962; Indian Ocean

P. murrayi Kofoid, 1907

Matzenauer, 1933; Indian Ocean

Wood, 1954, 1962; Albany, Indian Ocean

Subrahmanyam, 1958; Arabian Sea

P. nipponicum Abé, 1927

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

P. nux Schiller, 1937; Indian Ocean

P. obesum Matzenauer, 1933 (cf. P. heteracanthum); Indian Ocean

P. oblongum (Aurivillius) Cleve, 1900

Ostenfeld, 1915; Boeton Str.

Matzenauer, 1933; Indian Ocean

Wood, 1954, 1962; Albany, Heard I., Indian Ocean

- Peridinium obovatum Wood, 1954; Antarctic
- P. obtusum Karsten, 1906
- Subrahmanyam, 1958 (? = P. marielebouree); Arabian Sea
- P. oceanicum Vanhöffen, 1897
- Cleve, 1900a,b, 1901, 1903; Red Sea, G. of Aden to Malaya, south Indian Ocean
- Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
- Schroeder, 1906; Arabian Sea, G. of Aden, Red Sea
- Karsten, 1907; Indian Ocean
- Ostenfeld, 1915; Boston Str.
- Matzenauer, 1933; Indian Ocean
- Wood, 1954; Victoria to Albany, Indian Ocean: 1962; Indian Ocean
- Subrahmanyam, 1958; Arabian Sea
- Ballantine, 1961; Zanzibar
- P. okamurai Abe, 1927
- Wood, 1962; Indian Ocean
- P. orientale Matzenauer, 1933; Indian Ocean
- P. ovatum (Pouchet) Schlütt, 1895
- Matzenauer, 1933; Indian Ocean
- Wood, 1954; Heard I.
- Subrahmanyam, 1958 (as P. globulus v. ovatum); Arabian Sea
- P. oviforme Dangeard, 1937
- Matzenauer, 1933; Indian Ocean
- P. pallidum Ostenfeld, 1899
- Balech, 1958 (as P. affine); Adelle Land
- Wood, 1962; Indian Ocean
- P. parvicollum Balech, 1957
- Balech, 1958; Adelle Land
- P. pedunculatum Schlütt, 1895
- Cleve, 1900a,b, 1901; Indian Ocean, Malaya
- Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Peridinium pedunculatum (contd)

Schroeder, 1906; Red Sea to Singapore, Fremantle
Matzenauer, 1933 (as P. pellucidum); Indian Ocean
Wood, 1954, 1962; Albany, Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. pellucidum (Bergh). Schutt, 1883

Cleve, 1900b; south Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954: 1962; Indian Ocean

P. pentagonum Gran, 1902

Karsten, 1907; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954; Victoria, Swan R., North Australia:
1962; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

v. latissima Kofoid, 1907

Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954; Swan R.
Ballantine, 1961; Zanzibar

P. perrieri Faure Fremiet, 1909; Indian Ocean

P. persicum Schiller, 1937

Bohm, 1931 (as P. schilleri); Persian Gulf

P. pietschmanni Bohm, 1931; Persian Gulf

P. pyriforme Paulsen, 1904

Ostenfeld, 1915; Boeton Str.
Wood, 1954; Heard I.

P. playfairi Lindemann, 1931; Malaya, Bali

P. pseudoantarcticum Balech, 1937

Peridinium punctulatum Paulsen, 1908

Matzenauer, 1933; Indian Ocean
Wood, 1954; Israelite Bay, Albany, Heard I.
Ballantine, 1961; Zanzibar

P. pyriforme Paulsen, 1907

Matzenauer, 1933; Indian Ocean
Wood, 1954; Heard I., Antarctic, Indian Ocean
Balech, 1958; Adelie Land

P. quadratum Matzenauer, 1933; Indian Ocean

P. quarnerense Schroeder, 1910; Indian Ocean

Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933 (as P. subpyriforme Dang.); Indian Ocean
Wood, 1954; Swan R., Northern Australia
Subrahmanyam, 1958 (as P. globulus v. quarnerense);
Arabian Sea

P. raciborskii Woloszynska, 1912, Java

P. remotum Karsten 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

P. retiferum Matzenauer, 1933; Indian Ocean

P. rosaceum Balech, 1957

Balech, 1958; Adelie Land

P. roseum Paulsen, 1929

Wood, 1954, 1962; Swan R., Indian Ocean

P. sanguineum Carter, 1858

Saville Kent, 1880; Bombay

P. sinaicum Matzenauer, 1933; Red Sea

Subrahmanyam, 1958; Arabian Sea

P. solidicorne Mangin, 1926

Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

Peridinium somma Matzenauer, 1933; Indian Ocean

P. sp? Subrahmanyam, 1958; Arabian Sea

P. sphaericum Okamura, 1912

Matzenauer, 1933 (v. gracilis as P. sphaeroidea Abbé);
Indian Ocean
Ballantine, 1961; Zanzibar

P. steini Jørgensen, 1899

Cleve, 1900a,b, 1901, 1903; Red Sea to Malaya, south
Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea to Singapore
Karsten, 1907; Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Fremantle, Geraldton, Indian Ocean,
Antarctic convergence
Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

P. subinerme Paulsen, 1904

Matzenauer, 1933 (as P. asymmetrica); Indian Ocean
Wood, 1954, 1962; Victoria, Albany, Antarctic convergence,
Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. tenuissimum Kofoid, 1907

Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

P. thorianum Paulsen, 1905

Matzenauer, 1933; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

P. treubi Woloszyńska (v. Glenodinium quadridens Stein)

Peridinium tristylum Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Matzenauer, 1933; Indian Ocean

f. ovata Schroeder, 1906; Indian Ocean, Fremantle
Harbour

P. trochoideum (Stein) Lemm., 1910

Subrahmanyam, 1958 (as Glenodinium); Arabian Sea

P. turbinatum Mangin, 1926

Wood, 1954; Heard I., Antarctic
Balech, 1958; Adelie Land (= P. inaequale Peters)

P. umbonatum Stein, 1883

Woloszynska, 1912; Java
Lindemann, 1931 (as P. ambiguum, Glenodinium guildfordense,
and G. geminum); Java

P. variegatum Peters, 1928

Wood, 1954, 1962; Antarctic, Indian Ocean
Balech, 1958, Adelie Land

P. ventricum Abé, 1927

Wood, 1962; Indian Ocean

P. venustum Matzenauer, 1933; Indian Ocean

Subrahmanyam, 1958; Arabian Sea
Ballantine, 1961; Zanzibar

P. volzi Lemm., 1905; Madagascar, Africa

West, 1909; Yan Yean, Victoria
Lindemann, 1931; Indonesia

v. botanicum Lindemann, 1909; Malaya

f. sinuatum (Lindemann) Lefevre, 1932
Lindemann, 1931 (as P. sinuatum); Malaya

P. wildemani Woloszynska, 1912 (v. Glenodinium quadridens Stein)

Peridinium willei Huitfeld-Kaas, 1900

Lindemann, 1931; Indonesia

Genus PHALACROMA

Phalacroma acutum (Schütt) Pav., 1916

Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

P. argus Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1901; Arabian Sea, Indian Ocean
Schroeder, 1906; Red Sea, Arabian Sea
Matzenauer, 1933; Indian Ocean
Wood, 1954; west of Bass Str.

P. circumsutum Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean
Ballantine, 1961; Zanzibar

P. cuneus Schütt, 1895

Cleve, 1901, 1903; Arabian Sea, Indian Ocean
Ostenfeld and Schmidt, 1901; G. of Aden
Schroeder, 1906 (as P. blackmani); Arabian Sea,
Fremantle, Indian Ocean
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

P. dolichopterygium Mur. and Whit., 1899

Cleve, 1901; Indian Ocean
Matzenauer, 1933; Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. doryphorum Stein, 1883

Cleve, 1900, 1903; Red Sea, Arabian Sea, Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; G. of Aden, Arabian Sea, Indian Ocean
Wood, 1962; Indian Ocean

Phalacroma favus Kof. and Mich., 1911

Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

P. hindmarchi Mur. and Whit., 1899

Wood, 1962; Indian Ocean

P. irregulare Lebour, 1926

Wood, 1954; south coast of Australia

P. jourdani Gourret, 1883

Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean

P. latevelatum Kof. and Skogsb., 1928

Matzenauer, 1933; Indian Ocean

P. lens Kof. and Skogs., 1928

Wood, 1954; Swan R.

P. mawsoni Wood, 1954; Antarctic convergence

P. mitra Schütt, 1895

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Arabian Sea, east Indian Ocean
Wood, 1962; Indian Ocean

P. operculatum Stein, 1883

Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean
Schroeder, 1906; Arabian Sea, N.E. Indian Ocean
Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean

P. ovum Schütt, 1895

Wood, 1954, 1962; Swan R., Indian Ocean

Phalacroma parvulum (Schütt) Jørgensen, 1923

Ostenfeld and Schmidt, 1901 (as P. porodictyum v.
parvulum); G. of Aden

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

P. porodictyum Stein, 1883

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Schroeder, 1906 (as P. porodictum); Arabian Sea

Ostenfeld, 1915; Boeton Str.

Matzenauer, 1933; Indian Ocean

P. porosum (Kof. and Mich.) Kof. and Skogs., 1928

Wood, 1954; Antarctic

P. pulchellum Lebour, 1925

Wood, 1954; Antarctic convergence south of C. Leeuwin

P. rapa Stein, 1883

Cleve, 1901, 1903; Arabian Sea, Indian Ocean

Ostenfeld and Schmidt, 1901; G. of Aden

Matzenauer, 1933; Indian Ocean, Red Sea

Wood, 1962; Indian Ocean

P. rotundatum (Clap. and Lach.) Kof. and Mich., 1911

Karsten, 1907 (as Dinophysis rotundatum); Indian Ocean

Matzenauer, 1933; G. of Aden, Indian Ocean

Subrahmanyam, 1958; Arabian Sea

P. rudgei Mur. and Whit., 1899

Schroeder, 1906; Indian Ocean

Wood, 1962; Indian Ocean

P. striatum Kofoid, 1907

Wood, 1962; Indian Ocean

P. vastum Schroeder, 1906; G. of Aden, Arabian Sea

Genus PODOLAMPAS

Podolampas bipes Stein, 1883

Cleve, 1901, 1903; Red Sea, G. of Aden, Arabian Sea,
Indian Ocean, Malaya
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea, Arabian Sea, Indian Ocean
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean
Ballantine, 1961; Zanzibar

f. reticulata (Kofoid) Schiller, 1937

Matzenauer, 1933 (as P. reticulata Kof.), Indian Ocean
Wood, 1962; Indian Ocean

P. elegans Schütt, 1895

Schroeder, 1906; Red Sea, G. of Aden, Arabian Sea
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

P. palmipes Stein, 1883

Cleve, 1900a, 1903; Red Sea, G. of Aden, Arabian Sea
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea to Sunda Sea
Matzenauer, 1933; Indian Ocean
Subrahmanyam, 1958; Arabian Sea
Wood, 1962; Indian Ocean

P. spinifer Okamura, 1912

Wood, 1962; Indian Ocean

Genus POLYKRIKOS

Polykrikos schwartzi Butschli, 1873

Subrahmanyam, 1958; Arabian Sea

Genus PRONOCTILUCA

Pronoctiluca pelagria Fabre-Domergue, 1889

Wood, 1962; Indian Ocean

P. spinifera (Lohmann) Schiller, 1933

Wood, 1962; Indian Ocean

Genus PROROCENTRUM

Prorocentrum arcuatum Issel, 1928

Matzenauer, 1933 (as P. gibbosum Schiller); Indian Ocean
Wood, 1962; Indian Ocean

P. dentatum Stein, 1883

Wood, 1954, 1962; Swan R., Indian Ocean

P. maximum Schiller, 1931

Matzenauer, 1933; Indian Ocean

P. gracile Schütt, 1895

Ostenfeld and Schmidt, 1901; Red Sea
Schroeder, 1906; Arabian Sea, Indian Ocean

P. micans Ehr., 1833

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Cleve, 1903; Arabian Sea
Schroeder, 1906; G. of Aden, Red Sea, Arabian Sea
Ostenfeld, 1915; Boston Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Swan R., Indian Ocean
Subrahmanyam, 1958; Arabian Sea

P. minimum Schiller, 1933

Wood, 1962; Indian Ocean

P. rostratum Stein, 1883

Wood, 1962; Indian Ocean

Prorocentrum scutellum Schroeder, 1901; India

P. sigmoides Bohm, 1931

Subrahmanyam, 1958; Arabian Sea

P. spinulosum Karsten, 1907; Indian Ocean

Genus PROTOCERATIUM

Protoceratium areolatum Kofoid, 1907

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

P. reticulatum (Clap. and Lach.) Butschli, 1885

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Matzenauer, 1933; Indian Ocean

Genus PTYCHODISCUS

Ptychodiscus carinatus Kofoid, 1907

Matzenauer, 1933; Indian Ocean

P. inflatus Pavillard, 1916

Matzenauer, 1933; Indian Ocean

Genus PSEUDOPHALACROMA

Pseudophalacroma nasutum (Stein) Jörg., 1923

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Genus PYROCYSTIS

Pyrocystis elegans Pav., 1931

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

Pyrocystis ellipsoides (Haeckel) Lemm., 1890

Matzenauer, 1933; Indian Ocean

P. fusiformis Murray, 1885

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Cleve, 1901; Indian Ocean, Malaya

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Subrahmanyam, 1958; Arabian Sea

Wood, 1962; Indian Ocean

P. hamulus Cleve, 1900

Cleve, 1901, 1903; Indian Ocean, Malaya, Red Sea

Ostenfeld and Schmidt, 1901; G. of Aden

Schroeder, 1906; Indian Ocean

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

f. semicircularis Kofoid, 1907

Matzenauer, 1933; Indian Ocean

Wood, 1962; Indian Ocean

P. lanceolata Schroeder, 1900

Karsten, 1907; Indian Ocean

Matzenauer, 1933; Indian Ocean

P. lunula Schütt, 1896

Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden

Cleve, 1901; Arabian Sea, Indian Ocean

Schroeder, 1906; Indian Ocean

Karsten, 1907; Indian Ocean

Wood, 1962; Indian Ocean

P. micans Schroeder, 1906; Red Sea

P. minima Matzenauer, 1933; Indian Ocean

P. obtusa Pav., 1931

Matzenauer, 1933; Indian Ocean

Pyrocystis pseudonoctiluca W. Thompson, 1876

Cleve, 1900a,b, 1901, 1903; Red Sea, G. of Aden, Arabian
Sea, Malaya, Indian Ocean
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Karsten, 1907; Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Indian and Southern Oceans
Subrahmanyam, 1958; Arabian Sea

P. rhomboides Matzenauer, 1933; Indian Ocean

P. robusta Kofoid, 1907

Matzenauer, 1933; Indian Ocean
Karsten, 1907; Indian Ocean
Wood, 1962; Indian Ocean
Ballantine, 1961; Zanzibar

Genus PYRODINIUM

Pyrodinium schilleri (Matz.) Schiller, 1937

Matzenauer, 1933 (as Goniaulax); Red Sea, Persian Gulf

Genus PYROPHACUS

Pyrophacus horologicum Stein, 1883

Cleve, 1900a,b, 1901, 1903; Red Sea, Indian Ocean, Malaya
Ostenfeld and Schmidt, 1901; Red Sea, G. of Aden
Schroeder, 1906; Red Sea to Sunda Sea
Ostenfeld, 1915; Boeton Str.
Matzenauer, 1933; Indian Ocean
Wood, 1954, 1962; Bass Strait to Indian Ocean
Subrahmanyam, 1958 (and v. steini); Arabian Sea
Ballantine, 1961; Zanzibar

Genus SPHAERODINIUM

Sphaerodinium javanicum Woloszynska, 1930; Java

S. spp. Subrahmanyam, 1958; Arabian Sea

Genus SPIRAULAX

Spiraulax jolliffei (Mur. and Whit.) Kofoid, 1911

Cleve, 1903 (as Goniaulax); Red Sea, Arabian Sea
Schroeder, 1906 (as Gonisulax); Indian Ocean
Matzenauer, 1933; Indian Ocean
Wood, 1962; Indian Ocean

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