

Ceratium carriense Gourret

Ann. Mus. Hist. Nat. Marseille (Zool.) 1(8): 38, pl. 4, fig. 67 (1883)

Neoceratium carriense (Gourret) F.Gómez, D.Moreira & López-García, *Protist* 161: 43 (2010), *nom. illeg.*

Type locality: Mediterranean Sea (France)

Ceratium tripos var. *massiliense* Gourret, *Ann. Mus. Hist. Nat. Marseille (Zool.)* 1(8): 27, pl. 1, fig. 2 (1883); *Ceratium massiliense* (Gourret) G.Karst., *Wiss. Ergeb. Deutschen Tiefsee-Exped. "Valdivia"* 2(2): 145 (1906); *Ceratium carriense* var. *massiliense* (Gourret) Huisman, *Austral. Syst. Bot.* 2: 440 (1989)

Type locality: Mediterranean Sea (France)

Ceratium volans Cleve, *Kongl. Svenska Vetensk. Acad. Handl.* 34: 15, pl. 7, fig. 4 (1900); *Ceratium carriense* var. *volans* (Cleve) Jörg., *Internat. Rev. Ges. Hydrobiol. Hydrogr.* 4, Biol. Suppl.: 70 (1911)

Type locality: tropical Atlantic Ocean

Ceratium tripos f. *armatum* G.Karst., *Wiss. Ergeb. Deutschen Tiefsee-Exped. "Valdivia"* 2(2): 132, pl. 19, figs 7, 8 (1905); *Ceratium massiliense* var. *armatum* (G.Karst.) Jörg., *Internat. Rev. Ges. Hydrobiol. Hydrogr.* 4, Biol. Suppl.: 67 (1911)

Type locality: South Africa

Ceratium tripos var. *protuberans* G.Karst., *Wiss. Ergeb. Deutschen Tiefsee-Exped. "Valdivia"* 2(2): 144, pl. 22, fig. 27 (1905); *Ceratium tripos* f. *protuberans* (G.Karst.) Jörg., *Internat. Rev. Ges. Hydrobiol. Hydrogr.* 4, Biol. Suppl.: 67 (1911); *Ceratium protuberans* (G.Karst.) Paulsen, *Trab. Inst. Espan. Oceanogr.* 4: 73 (1931)

Type locality: Atlantic Ocean

Australian distribution: Qld (Gulf of Carpentaria, Coral Sea, Great Barrier Reef, SE coast), East Australian Current, N.S.W., Vic., Bass Strait, Tas., S.A. (Kangaroo Island), W.A. (SW, North-west Shelf)

Extra-Australian distribution: Brazil, South Atlantic Ocean, South Africa, Caribbean Sea, Gulf of Mexico, U.S.A. (California, E and NE coasts), Canada (Nova Scotia), Canary Islands, North Atlantic Ocean, British Isles, North Sea, Mediterranean Sea, Black Sea, Red Sea, Arabian Sea, Indian Ocean, South China Sea, East China Sea, Yellow Sea, Sea of Japan, western Pacific Ocean, tasman Sea, New Zealand, Southern Ocean, Pacific coast of Mexico, Peru, SE Pacific Ocean

References: E.J.F.Wood, Dinoflagellates in the Australian region, *Austral. J. Mar. Freshw. Res.* 5: 171–351 (1954)

S.W.Jeffrey & G.M.Hallegraeff, Studies of phytoplankton species and photosynthetic pigments in a warm core eddy of the East Australian Current. I. Summer populations, *Mar. Ecol. Prog. Ser.* 3: 285–294 (1980)

N.Revelante, W.T.Williams & J.S.Bunt, Temporal and spatial distribution of diatoms, dinoflagellates and *Trichodesmium* in waters of the Great Barrier Reef Australia, *Journal of Experimental Marine Biology and Ecology* 63: 27–46 (1982)

G.M.Hallegraeff & S.W.Jeffrey, Tropical phytoplankton species and pigments of continental shelf waters of north and north-west Australia, *Mar. Ecol. Prog. Ser.* 20: 59–74 (1984)

G.M.Hallegraeff & D.D.Reid, Phytoplankton species successions and their hydrological environment at a coastal station off Sydney, *Austral. J. Mar. Freshw. Res.* 37: 361–377 (1986)

S.W.Jeffrey & G.M.Hallegraeff, Phytoplankton pigments, species and light climate in a complex warm-core eddy of the East Australian Current, *Deep Sea Res., Part A* 34: 649–673 (1987)

J.M.Huisman, The genus *Ceratium* Schrank (Dinophyceae) in Bass Strait and adjoining waters, southern Australia, *Austral. Syst. Bot.* 2: 425–454 (1989)

G.M.Hallegraeff, C.J.S.Bolch, J.M.Huisman & M.F. de Salas, Planktonic dinoflagellates, *Algae of Australia: Phytoplankton of Temperate Coastal Waters* 145–212 (2010)