THE MEDITERRANEAN CYSTOSEIRA (WITH PHOTOGRAPHS)

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Giovanni FURNARI  Mario CORMACI

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The Mediterranean *Cystoseira* (with photographs)

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The Mediterranean *Cystoseira* (with photographs)

In this study, all *Cystoseira* taxa (at species and infraspecific level) reported from the Mediterranean Sea by several authors are evaluated. A total of 41 taxa (at species and infraspecific level) are reported as current from the Mediterranean Sea (Table 1). The photographs are given from the extensive collections of *Cystoseira* taxa by Gerloff and Nizamuddin in the Herbarium of the BGBM [B] (Berlin, Dahlem), personal herbaria by E. Taşkı̇n [E.T.] and M. Öztürk [M.Ö.] (Celal Bayar University, Turkey) and collections by G. Furnari [G.F.] and M. Cormaci [M.C.] held in the Herbarium of the University Catania, Italy (CAT).

Species of the brown alga genus *Cystoseira* are important elements of the marine flora in the Mediterranean Sea. Ribera *et al.* (1992) reported 47 taxa to occur in the Mediterranean Sea, including 19 endemics (Amico, 1995). Gómez Garreta *et al.* (2001) stated that *Cystoseira* includes about 50 species, the majority occurring in the Mediterranean Sea or Atlantic-Mediterranean. Several studies have been made on the Mediterranean *Cystoseira*. Some of these are by Sauvageau (1912), Hamel (1939), Ercegovic (1952), Güner (1974), Zinova and Kalugina (1974), Gerloff and Nizamuddin (1975a, 1976), Giaccone (1985), Amico *et al.* (1985), Athanasiadis (1987), Öztürk (1996), Gómez Garreta *et al.* (2001) and Taşkı̇n and Öztürk (2007). 24 taxa (at species and infraspecific level) have been reported to occur in Turkey by Taşkı̇n and Öztürk (2007). Furnari *et al.*, (2010) reported 41 taxa of *Cystoseira* from Italy.

In this study, *Cystoseira brachycarpa* J. Agardh *emend*. Giaccone var. *brachycarpa*, *Cystoseira spinosa* var. *compressa* (Ercegovic) Cormaci *et al.* and *Cystoseira spinosa* var. *tenuior* (Ercegovic) Cormaci *et al.* are reported for the first time from Turkey.
Assoc. Prof. Dr. Ergün Taşkin

Ergün Taşkin has been studying the taxonomy, life history and culture of brown algae (especially Dictyotales, Ectocarpales, Fucales) in the Mediterranean Sea for 15 years. He studied on Order Ectocarpales L. and reported about 70 taxa from Turkey. He reported many species for the first time for Turkey and the Mediterranean Sea (Mitosporangium cibosum, Corynophora crispa, Botrylleta micromorpha, Cephalodiscus taxiformis etc.). He is SCUBA Diver (CMAS)** and a member** of International Phycological Society (IPS) and British Phycological Society (BPS).

Dr. Regine Jahn

Regine Jahn is a Senior Curator for Algae at the Botanic Garden and Botanical Museum Berlin-Dahlem, Freer Universität Berlin. In this capacity she is supervisor of Prof. Dr. Johannes Gerloff who did much research and collecting on the marine macroalgae in the Mediterranean Sea. In her own research she is focusing on diatoms, their taxonomy and phylogeny as well as their biogeography. Changes in the biodiversity of freshwater diatoms, the use of diatoms as bioindicators by morphological and DNA Barcoding methods and nomenclature are some of her current interests.

Prof. Dr. Mehmet Öztürk

Mehmet Öztürk has been studying the taxonomy, life history and culture of brown algae (especially Dictyotales, Ectocarpales, Fucales) in the Mediterranean Sea for more than 30 years. These orders are the majority occurring in the Mediterranean Sea. In his PhD thesis, he studied on “brown algae (Phaeophyceae) of Turkey” between 1980-1985 and he reported many species for the first time for Turkey. He is Head of Department of Hydrobiology (Celal Bayar University).

Prof. Giovanni Furnari

From the beginning of his research activity (1969) to now, Giovanni Furnari focused his interests on physiology. His studies have mainly dealt with: i) the benthic marine flora and vegetation of Italian coast and adjacent areas, ii) both the biogeography and taxonomy of macroalgae. In the above studies numerous species either to Italy or to the Mediterranean Sea were reported as well as several taxa new to the science were described. He also reviewed: i) the taxonomy of both Mediterranean and extra-Mediterranean taxa of the Laurencia complex, ii) the alien macrophytes occurring in the Mediterranean Sea. Due to the particular attention by him turned to the nomenclature of species he also proposed numerous new combinations. Recently, he carried out studies on the variations of both marine flora and vegetation occurred in some Mediterranean areas (the Tremiti Islands, Pantelleria Island, Linosa Island, the Egadi Islands). Results of his studies are documented by about 160 papers published in both national and international journals. He is member of the Permanent Nomenclatural Committee for Algae since 1993. Full Professor of Botany at the University of Catania until 2010. He is now retired.

Prof. Mario Cormaci

Mario Cormaci began his research activity in 1910 and his interests on marine botany. His studies mainly dealt with: i) the benthic marine flora and vegetation of Italian coast and adjacent areas (e.g. the Aegean Islands, the Cauli Islands, the Pagusian Islands, the Tremiti Islands, the Maltese Islands), ii) the biogeography, the ecology and the (poxonomy) of macroalgae. In the above studies numerous species new either to Italy or to the Mediterranean Sea were reported, new nomenclatural combinations for all taxa were proposed and several taxa new to the science were described. In particular his systematic studies gave a contribution to the characterization of the floristics of the studied areas. Results of his studies are documented by about 150 papers published on both national and international journals. Full Professor of Ecology at the University of Catania until 2009. He is now retired.

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