

A comment on the Results Reported by Çetin and Şen

Arif GÖNÜLÖL

Ondokuz Mayıs University, Faculty of Arts and Sciences, Department of Biology,
55139 Kurupelit, Samsun - TURKEY

Received: 08.11.2004

Accepted: 10.01.2005

In the paper entitled "Seasonal distribution of phytoplankton in Orduzu Dam Lake (Malatya, Turkey)" by Çetin A K & Şen B in the Turkish Journal of Botany (Vol. 28, No. 3, 279-285, 2004), Krammar & Lange-Bertalot (1987) is the only study cited for Bacillariophyta in the Materials and Methods. On the other hand, in the reference list, this reference is missing and instead, Krammar & Lange-Bertalot (1991a) is given. Moreover, it is worth pointing out that the identification key series consists of 4 books (i.e. Krammar & Lange-Bertalot, 1987, 1991a, 1991b, 1999), and that it is impossible to identify diatoms using only 1 key (i.e. Krammar & Lange-Bertalot, 1987). Taking these 4 books and the study by John et al. (2003) as references, I went through the list of taxa in the study by Çetin and Şen and I found some mistakes in the valid names of the species and author citations. The corrections for 24 taxa are presented below:

Cyanophyta

Phormidium konstantinosum I.Umezaki & M.Watanabe

Syn: *Phormidium tenue* (Gomont) Anagnostidis & Komarek

Oscillatoria tenuis C.A.Agardh ex Gomont

Phormidium natans (Gomont) P.A.C.Senna & Compere

Syn: *Oscillatoria tenuis* var. *natans* Gomont

Bacillariophyta

Cyclotella radiosa (Grunow) Lemmermann

Syn: *Cyclotella comta* (Ehrenberg) Kützing

Achnanthes gibberula Grunow

Caloneis silicula (Ehrenberg) Cleve

Syn: *Caloneis ventricosa* (Ehrenberg) Meister

Cymbella aspera (Ehrenberg) Cleve

Cymbella parva (W.Smith) Cleve

Denticula tenuis Kützing

Diatoma hyemalis (Roth) Heiberg

Diatoma vulgare Bory

Diploneis oblongella (Nägeli) Cleve - Euler

Epithemia adnata (Kützing) Brébisson

Fragilaria construens f. *binodis* (Ehrenberg) Hustedt

Syn: *Fragilaria construens* var. *binodis* (Ehrenberg) Grunow

Gomphonema angustum Agardh

Syn: *Gomphonema dichotomum* S.Wunsam

Navicula cuspidata (Kützing) Kützing

Syn: *Navicula cuspidata* var. *heribaudii* M.Peragallo in Heribaud

Navicula mutica Kütz. var. *ventricosa* (Kützing) Cleve & Grunow

Syn: *Navicula neoventricosa* Hustedt

Navicula reinhardtii (Grunow) Grunow in Cleve & Müller

Nitzschia constricta (Kützing) Ralfs in Pritchard

Syn: *Nitzschia apiculata* (Gregory) Grunow

Nitzschia linearis (Agardh) W.Smith

Nitzschia sinuata (Thwaites ? in W.Smith) Grunow in Cleve & Grunow

Pinnularia microstauron (Ehrenberg) Cleve var. *brebissonii* (Kützing) Mayer

Syn: *Pinnularia brebissonii* (Kützing) Rabenhorst

Pinnularia interrupta W. Smith

Syn: *Pinnularia mesolepta* (Ehrenberg) W. Smith

Surirella splendida (Ehrenberg) Kützing

Syn: *Surirella robusta* var. *splendida* (Ehrenberg) Van Heurck

Chlorophyta

Scenedesmus dimorphus (Turpin) Kützing

Syn: *Scenedesmus acutus* Meyen

Scenedesmus communis E.H. Hegewald

Syn: *Scenedesmus quadricauda* Chodat

Scenedesmus magnus Meyen

Syn: *Scenedesmus quadricauda* var. *maximus* West & West

References

John D M, Whitton B A & Brook A J (2003). *The Freshwater Algal Flora of the British Isles: An identification guide to freshwater and terrestrial algae*. The Natural History Museum and The British Phycological Society, Cambridge University Press, 702p.

Krammer K & Lange-Bertalot H (1986). *Süßwasserflora von Mitteleuropa. Bacillariophyceae, Band 2/1, 1. Teil: Naviculaceae*, 1-876. Berlin: Spectrum Academischer Verlag.

Krammer K & Lange-Bertalot H (1991a). *Süßwasserflora von Mitteleuropa. Bacillariophyceae, Band 2/3, 3. Teil: Centrales, Fragillariaceae, Eunotiaceae*, 1-576. Stuttgart: Gustav Fischer Verlag.

Krammer K & Lange-Bertalot H (1991b). *Süßwasserflora von Mitteleuropa. Bacillariophyceae, Band 2/4, 4. Teil: Achnantheaceae, 1-436. Kritische Ergänzungen zu Navicula (Lineolatae) und Gomphonema Gesamtliteraturverzeichnis*. Stuttgart: Gustav Fischer Verlag.

Krammer K & Lange-Bertalot H (1999). *Süßwasserflora von Mitteleuropa. Bacillariophyceae, Band 2/2, 2. Teil: Bacillariaceae, Epithemiaceae, Surirellaceae*, 1-610. Berlin: Spectrum Academischer Verlag.