

Nos. 028

Lake Inba-numa, Chiba Pref., Japan.

[35°45'03" N, 140°10'56" E from a map]

Date: 8/iv/2003.

Coll. A. Tuji (duplicate of TNS-AL- 55277m in TNS).

Aulacoseira ambigua f. *japonica* (F.Meister) Tuji et D.M.Williams, Bull. Natl. Mus. Nat. Sci. Tokyo ser. B. **33**: 69-70. 2007.

(Figs 1-3)

Aulacoseira granulata (Ehrenb.) Simonsen, Bacill. **2**: 58. 1979.

(Fig. 4)

Aulacoseira granulata f. *spiroides* (Hust.) Czarn. & D.Reinke, Trans. Kansas Acad. Sci. **85**: 174-175. 1982.

≡ *Melosira granulata* f. *spiralis* Hustedt, Rabenhorsts Kryptog.-Fl. **7(1)**: 251. 1927.

(Figs 5-7)

Reference: Tuji, A. 2006. The occurrence of *Aulacoseira granulata* f. *spiralis* (Hust.) Czarn. & D.Reinke in the Japanese Lake (in Japanese). Diatom **22**: 76-77.

The spiral form of *A. ambigua* and *A. granulata* are confused in many Japanese ecological and floral diatom reports. The spiral form of *A. granulata* seems to be very rare in Japan.

Since the straight form and spiral form seem to have different habitat, I divide both form as the taxonomical rank of forma.

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