

## Nos. 010

Katata-naiko pond near Lake Biwa, Shiga Pref., Japan. [35°06.809' N, 135°55.430" E]

Date: 3/iii/2000.

Coll. A. Tuji (duplicate of TNS-AL-56303m in TNS).

*Aulacoseira pusilla* (F.Meister) Tuji et Houki, Bull. Natn. Sci. Mus. Tokyo ser. B. **30**: 38. 2004.

≡ *Melosira pusilla* F.Meister, Arch. Hydrobiol. **8**: 306. pl. IV. f. 2. 1913.

(Figs 1-7)

Synonym: *Aulacoseira subborealis* (Nygaard) Denys, Muylaert & Krammer, Nova Hedw. **77**: 410. ≡  
*Melosira italicica* var. *subborealis* Nygaard, Folia Limnol. Scand. **8**: 74. pl. 1. f. 8. pl. 2. f.  
13-19. pl. 6. f. 24-25. 1956.

Type locality: Lake Suwa, Nagano Pref., Japan.

Lectotype: A slide numbered "A3/61" with Meister's label in BRM, designated by Tuji et Houki,  
Bull. Natn. Sci. Mus. Tokyo ser. B **30**: 38. f. 55-60. 2004.

Isotype: A slide in Collection Tempère et Peragallo (2nd edition) no. 801. BM69152 in BM,  
examined by Tuji & Williams, Diat. **22**: 70-73. f. 3-14. 2006.

SEM examination: Tuji & Houki, Lake Biwa Study Monogr. **7**: 33. pl. 11. f. 1. pl. 12. f. 1-2. 2001.

Ecology: Common in eutrophic pond, dam and small lakes as a plankton (Tuji pers. obs.). Since the  
identification of this taxon had been confusing, the reliable ecological information is not  
exist for this taxon.

*Discostella woltereckii* (Hust.) Houk et Klee, Diat. Res. **19**: 223. 2004.

≡ *Cyclotella woltereckii* Hust. Arch. Hydrobiol. **42**: 16. f. 11-13. 1942.

(Fig. 8)

Holotype: A slide Ac/68 in BRM, examined by Simonsen, Atlas Cat. Diat. Typ. Fr. Hust. pl. 400. f.  
7-14. 1987.

Lectotype: An individual at position 467.1 on the holotype slide BRM Ac/68, designated in Tuji &  
Williams, Bull. Natn. Sci. Mus. Tokyo ser. B. **32**: f. 1 a-d. 2006; micrograph presented by  
Simonsen, Atlas Cat. Diat. Typ. Fr. Hust. pl. 400. f. 9. 1987.

*Discostella pseudostelligera* (Hust.) Houk et Klee, Diat. Res. **19**: 223. 2004.

≡ *Cyclotella pseudostelligera* Hust., Abh. Naturw. Ver. Bremen **31**: 591. f. 1-2. 1942.

(Fig. 9)

Lectotype: BRM 51/1. Ems, bei Papenburg. 197, designated by by Simonsen, Atlas Cat. Diat. Typ.  
Fr. Hust. pl. 371. f. 29-29. 1987.

SEM examination: Tuji & Houki, Lake Biwa Study Monogr. **7**: 32. pl. 11. f. 1-3. 2001.

**Ecology:** The ecology of *Discostella* species complex seems to be different each other. However, the taxonomy of this complex has been confusing in Japan, and we need the new ecological study for this complex.

***Stephanodiscus hantzschii* f. *tenuis*** (Hust.) Håk. et Stoermer, Nova Hedw. **39**: 486. 1984.

(Figs 2-3)

SEM examination: Tuji & Houki, Lake Biwa Study Monogr. **7**: 46. pl. 18. f. 1-6. 2001.

**Ecology:** indifferent, alkaliphilous.

