

Nos. 015

Taishi-ido, Takatori, Nara Pref., Japan.

[34°27' N, 135°47' E from a map]

pH: 6.8.

Date: 13/ix/1991.

Coll. T. Watanabe (duplicate of TNS-AL-TW-12292 in TNS).

Achnantheidium catenatum (Bilý et Marvan) Lange-Bert., Iconogr. Diatomol. **6**: 277. 1999.

≡ *Achnanthes catenata* Bilý et Marvan, Preslia **31**: 34. pl. 8, f. 1-4. 1959.

Type examination using LM: Lange-Bertalot & Krammer, Bibl. Diat. **18**: 37. pl 55. f. 30-32. 1989.

(Figs 1-11)

Luticola goeppertiana (Bleisch in Rabenh.) D.G.Mann in Round, R.M.Crawford & D.G.Mann,
Diatoms 670. 1990.

≡ *Stauroneis goeppertiana* Bleisch in Rabenh., Alg. Europ. 1183. 1861.

(Figs 12-13)

Taxonomy: Though Mann (1990) cited “*Navicula mutica* var. *goeppertiana* M.Bleisch 1861” not
Stauroneis goeppertiana Bleisch 1861, this combination is valid under ICBN.

Ecology: saprophilous, alkaliphilous.

Nitzschia brevissima Grunow in Van Heurck, Syn. Diat. Belg. pl. lxxvii. f. 4. 1881.

(Figs 14-15)

Ecology: indifferent, pH-circumneutral.

