

**Nos. 039**

River Susawa, Yamagata Pref., Japan.

[35°12'14.9" N, 139°01'44.4" E]

EC: over 20mS, pH: 2.0, WT: 6.2.

Date: 12/xii/1993.

Coll. T.Watanabe (duplicate of TNS-AL- TW-10808m in TNS).

***Nitzschia cf. amplectens***

(Figs 5-12)

Watanabe & Asai (2004) reported two *Nitzschia* species, *Nitzschia paleaeformis* Hust. and *Nitzschia amplectens* Hust., from acid rivers. This material is one of the materials, Watanabe & Asai examined. Since the original habitats of both taxa differ our habitats, we need more research to identify these taxa.

Ecology: acidbiontic. *Nitzschia* taxa are normally found in alkaline waters, and acidbiontic species are very rare.

Reference: Watanabe, T. & Asai, K. 2004. *Nitzschia paleaeformis* and *Nitzschia amplectens* occureing in strongly acid water of pH range from 1.0 to 3.9 in Japan. Diatom 20:153-158.

***Pinnularia osoresanensis* (Negoro) Fukush.**

(Figs 1-4)

Nos. 039

