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Planktonic Diatoms From the Coralville Reservoir

DONALD J. SCHMIDT¹ AND EVERETT FEE^{2,3}

Abstract. A list of sixty-two planktonic diatom species is presented. These diatoms were collected from the Coralville Reservoir, a variable level flood control reservoir, located in east central Iowa. The collections were made during a sixteen-month, ecological study conducted during 1965 and 1966.

A sixteen-month study of the plankton of the variable flood control reservoir known as Coralville Reservoir was conducted from September 1965 to December 1966.¹ During this study effects of water level fluctuation on plankton populations in deep and shallow water areas and related physico-chemical parameters were determined. These data will be reported at another date.

The purpose of this paper is to report a list of the planktonic diatoms taken from the Coralville Reservoir during the study period. Burned preparations, mounted in Hyrax, were made routinely and these were used for taxonomic determinations.^{2,3} The following sixty-two species were identified from a series of collections made during two periods of maximum diatom abundance, fall 1965 and early spring 1966.

DIATOMS FROM CORALVILLE RESERVOIR

Amphora montana Krasske
Asterionella formosa Hassall
Attheya Zachariasii J. Brun.
Caloneis amphisbaena (Bory) Cleve
Caloneis bacillum (Grun.) Mereschkowsky
Cocconeis pediculus Ehr.
Cyclotella atomus Hustedt
Cyclotella meneghiniana Kütz.
Cymatopleura solea (Brebisson) W. Smith
Cymbella triangulatum (Ehr.) Cleve
Cymbella tumida (Breb.) Van Heurk
Diatoma vulgare Bory
Eunotia curvata (Kütz.) Lagerst.
Gomphonema olivaceum (Lyngbye) Kütz.
Gomphonema parvulum Kütz.
Gomphonema parvulum var. *micropus* (Kütz.) Cleve
Gyrosigma scalproides (Rabh.) Cleve
Gyrosigma sciotense (Sulliv. & Wormley) Cleve

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- Gyrosigma spencerii* (Quek.) Griff. & Henfr.
Melosira distans var. *alpigena* Grun.
Melosira granulata (Ehr.) Ralfs
Melosira granulata var. *angustissima* O. Müller
Melosira varians Agardh
Navicula accomoda Hustedt
Navicula cuspidata (Kütz.) Kütz
Navicula lanceolata (Agardh) Kütz.
Navicula menisculus Schumann
Navicula pupula Kütz.
Navicula pygmaea Kütz.
Navicula rhynchocephala Kütz.
Navicula tantula Hustedt
Neidium affine var. *undulatum* (Grun.) Cleve
Neidium iridis var. *amphigomphus* (Ehr.) Mayer
Neidium iridis var. *intercedens* A. Mayer
Nitzschia apiculata (Greg.) Grunow
Nitzschia capitellata Hustedt
Nitzschia communis Rabh.
Nitzschia dissipata (Kütz.) Grun.
Nitzschia hungarica Grun.
Nitzschia intermedia Hantzsch
Nitzschia kutzingiana Hilse
Nitzschia linearis W. Smith
Nitzschia palea (Kütz.) W. Smith
Nitzschia sigmoidea (Ehr.) W. Smith
Nitzschia subcapitellata Hust.
Nitzschia umbilicata Hustedt
Nitzschia vemicularis (Kütz.) Grun.
Pinnularia acrosphaeria Brebisson
Pinnularia biceps Greg.
Pinnularia brebissonii (Kütz.) Rabh.
Stephanodiscus astraeta var. *minutula* (Kütz.) Grun.
Stephanodiscus hantzschii Grun.
Stephanodiscus invisitatus Hohn and Hellerman
Stephanodiscus niagarae Ehr.
Surirella angusta Kütz.
Surirella hoefleri Hust.
Surirella ovata var. *pinnata* (W. Smith) Hustedt
Surirella ovata Kütz.
Synedra acus Kütz.
Synedra tenera W. Smith
Synedra acus var. *radians* (Kütz.) Hustedt
Synedra ulna (Nitzsch) Ehr.

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