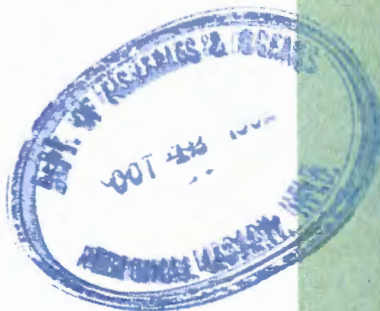


A Species List and Pictorial Reference to the Phytoplankton of Central and Northern Canada - Part II

D.L.Findlay and H.J.Kling

Western Region
Fisheries and Marine Service
Department of Fisheries and the Environment
Winnipeg, Manitoba R3T 2N6



June 1979

**Fisheries & Marine Service
Manuscript Report No.1503**

Fisheries and Marine Service

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Service des pêches et des sciences de la mer

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Ces rapports contiennent des renseignements scientifiques et techniques qui constituent une contribution importante aux connaissances actuelles mais qui, pour une raison ou pour une autre, ne semblent pas appropriés pour la publication dans un journal scientifique. Ils se distinguent des Rapports techniques par la portée du sujet et le lecteur visé; en effet, ils s'attachent principalement à des problèmes d'ordre national ou régional et la distribution en est généralement limitée aux organismes et aux personnes de régions particulières du Canada. Il n'y a aucune restriction quant au sujet; de fait, la série reflète la vaste gamme des intérêts et des politiques du Service des pêches et de la mer, notamment gestion des pêches; techniques et développement, sciences océaniques et environnements aquatiques, au Canada.

Les Manuscrits peuvent être considérés comme des publications complètes. Le titre exact paraît au haut du résumé de chaque rapport, qui sera publié dans la revue *Aquatic Sciences and Fisheries Abstracts* et qui figurera dans l'index annuel des publications scientifiques et techniques du Service.

Les numéros de 1 à 900 de cette série ont été publiés à titre de manuscrits (Série biologique) de l'Office de biologie du Canada, et après le changement de la désignation de cet organisme par décret du Parlement, en 1937, ont été classés en tant que manuscrits (Série biologique) de l'Office des recherches sur les pêcheries du Canada. Les numéros allant de 901 à 1425 ont été publiés à titre de manuscrits de l'Office des recherches sur les pêcheries du Canada. Le nom de la série a été changé à partir du rapport numéro 1426.

La page couverture porte le nom de l'établissement auteur où l'on peut se procurer les rapports sous couverture cartonnée.

Fisheries and Marine Service

Manuscript Report 1503

June 1979

A SPECIES LIST AND PICTORIAL REFERENCE
TO
THE PHYTOPLANKTON OF CENTRAL AND NORTHERN CANADA
PART II

by

D.L. Findlay and H.J. Kling

Western Region

Fisheries and Marine Service

Department of Fisheries and the Environment

Winnipeg, Manitoba R3T 2N6

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from the Western Region, Winnipeg



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TABLE OF CONTENTS

	<u>Page</u>
Abstract/Résumé	iv
Introduction	1
Acknowledgments	1
References	1

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1 A comparison of physical and chemical parameters of the four main areas	4

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1 Location of all sites where phytoplankton samples have been taken and identified	5
Cyanophyceae	7
Chlorophyceae	99
Euglenophyceae	327
Chrysophyceae	365
Diatomeae	495
Cryptophyceae	545
Peridineae	579
Index	614

Part I contains pages 1 through 326 and index.

Part II contains pages 327 through 619.

ABSTRACT

Findlay, D. L. and H. J. Kling. 1979. A species list and pictorial reference to the phytoplankton of central and northern Canada (in two parts).
Can. Fish. Mar. Serv. MS Rep. 1503: iv + 619 p.

This report lists 615 species of phytoplankton which have been found in lakes in central and northern Canada at eleven individual locations. Included for each species is a picture, size range, location where it was found and time of the year.

Key words: algae; check lists; taxonomy; Cyanophyceae; Chlorophyceae; Euglenophyceae; Chrysophyceae; Diatomeae; Cryptophyceae; Peridineae.

RESUME

Findlay, D. L. and H. J. Kling. 1979. A species list and pictorial reference to the phytoplankton of central and northern Canada (in two parts).
Can. Fish. Mar. Serv. MS Rep. 1503: iv + 619 p.

Ce rapport présente une liste de 615 espèces de phytoplancton identifiées dans 11 stations lacustres au centre et au nord du Canada. Pour chaque espèce, on donne une illustration, une série de dimensions, l'endroit et la date de la découverte.

Mots-clés: algues; listes d'espèces; taxonomie; Cyanophyceae; Chlorophyceae; Euglenophyceae; Chrysophyceae; Diatomeae; Cryptophyceae; Peridineae.

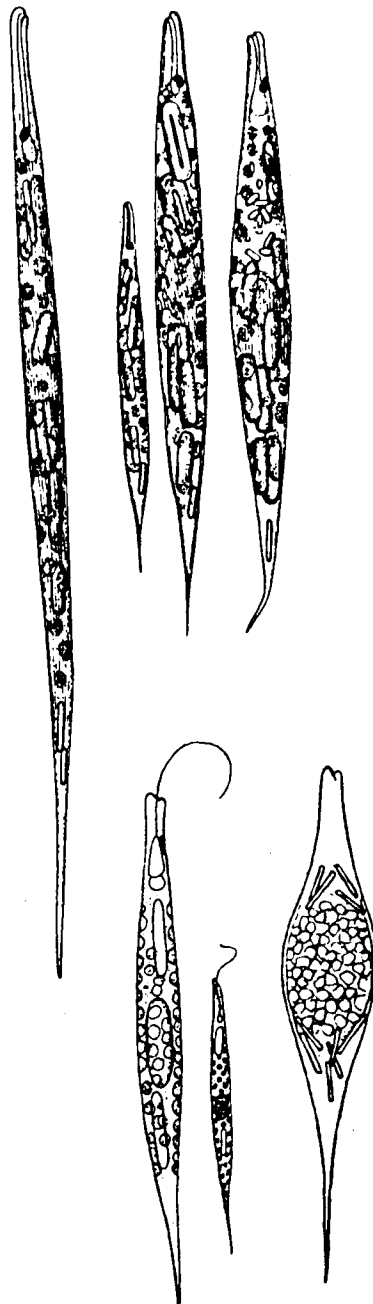
EUGLENOPHYCEAE

Species: *Euglena acus* Ehrenberg

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XVI.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
Erickson Lakes

Size: Cell - length 90-180 μ
- width 5.5-14 μ

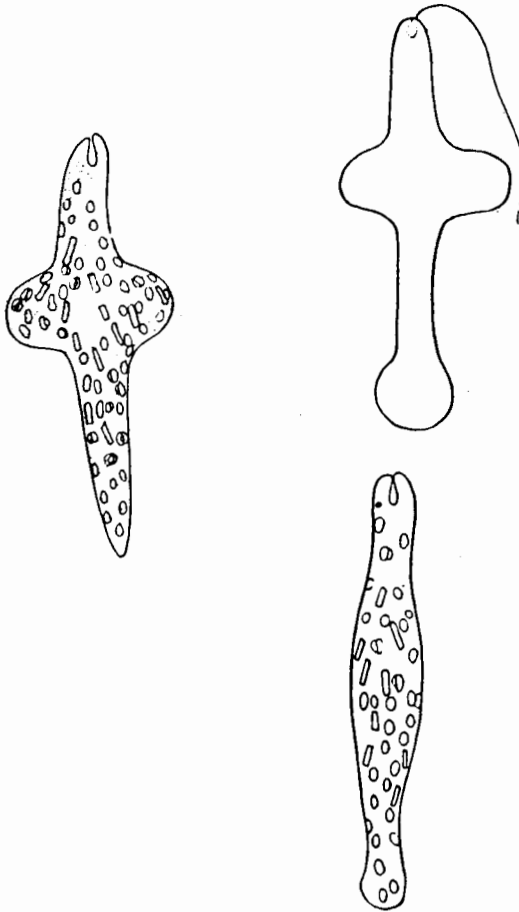


Species: *Euglena elastica* Prescott

Key: Prescott, G. W. 1961. Algae of the Western Great
Lakes Area. W. C. Brown Company Publishers. Dubuque,
Iowa. Page 392, Plate 86.

Location: Erickson Lakes

Size: Cell - length 76-100 μ
- diameter 9.5-11 μ



Species: *Euglena gracilis* Klebs

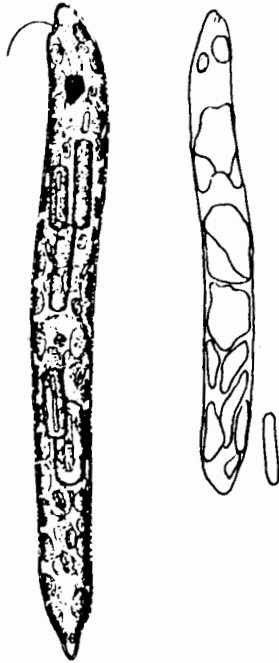
Key: Skuja, H. 1964. Grundzüge der Algenflora und
Algenvegetation der Fjeldgegenden um Abisko in
Schwedisch - Lappland. Nova Acta Regiae Soc. Sci.
Ups. Ser. IV. Vol. 18. No.3. Taf. LX.

Location: Experimental Lakes Area (all year)

Size: Cell - length 40 μ
- width 15 μ
Collar - length 3 μ
- width 4 μ



- Species: *Euglena intermedia* var. *klobbii* Lemmermann
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XII.
- Location: Lake Winnipeg
- Size: Cell - length 7-10 μ
- width 5.5-9 μ

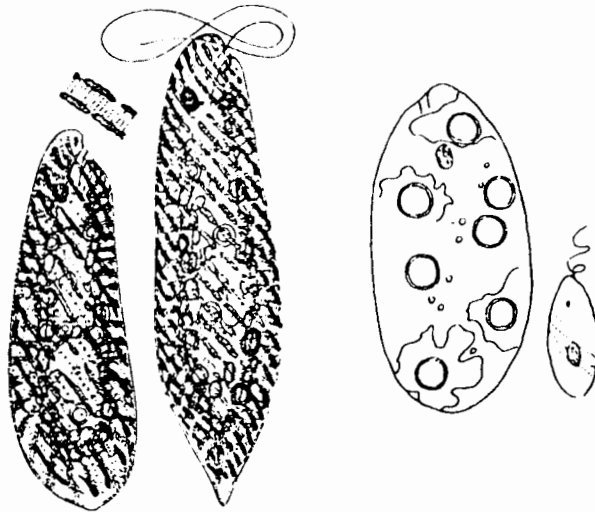


Species: *Euglena oblonga* Schmitz

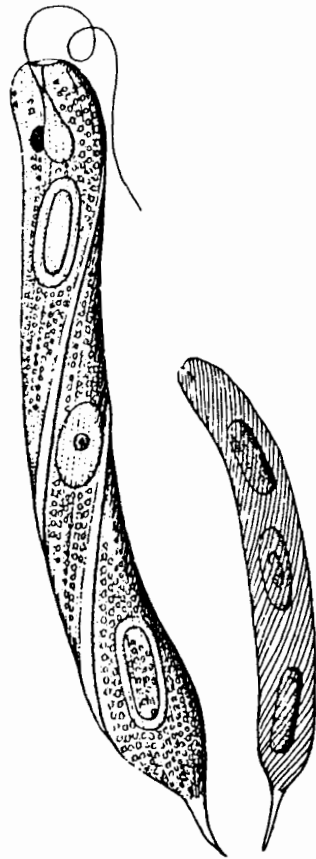
Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. II.

Location: Erickson Lakes

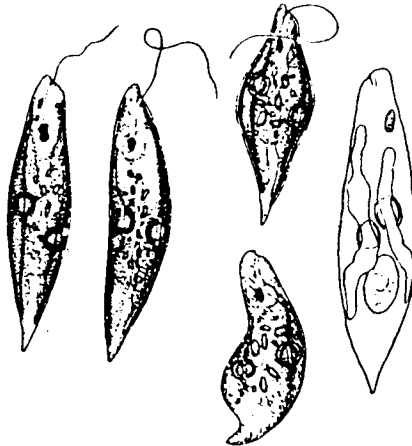
Size: Cell - length 60-110 μ
- width 23-57 μ



- Species: *Euglena oocystis* Scharda
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. VII.
- Location: Lake Winnipeg
- Size: Cell - length 375-490 μ
- width 30-45 μ



- Species: *Euglena pasciformis* Klebs
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. I.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Erickson Lakes
- Size: Cell - length 24-35 μ
- width 7-11 μ

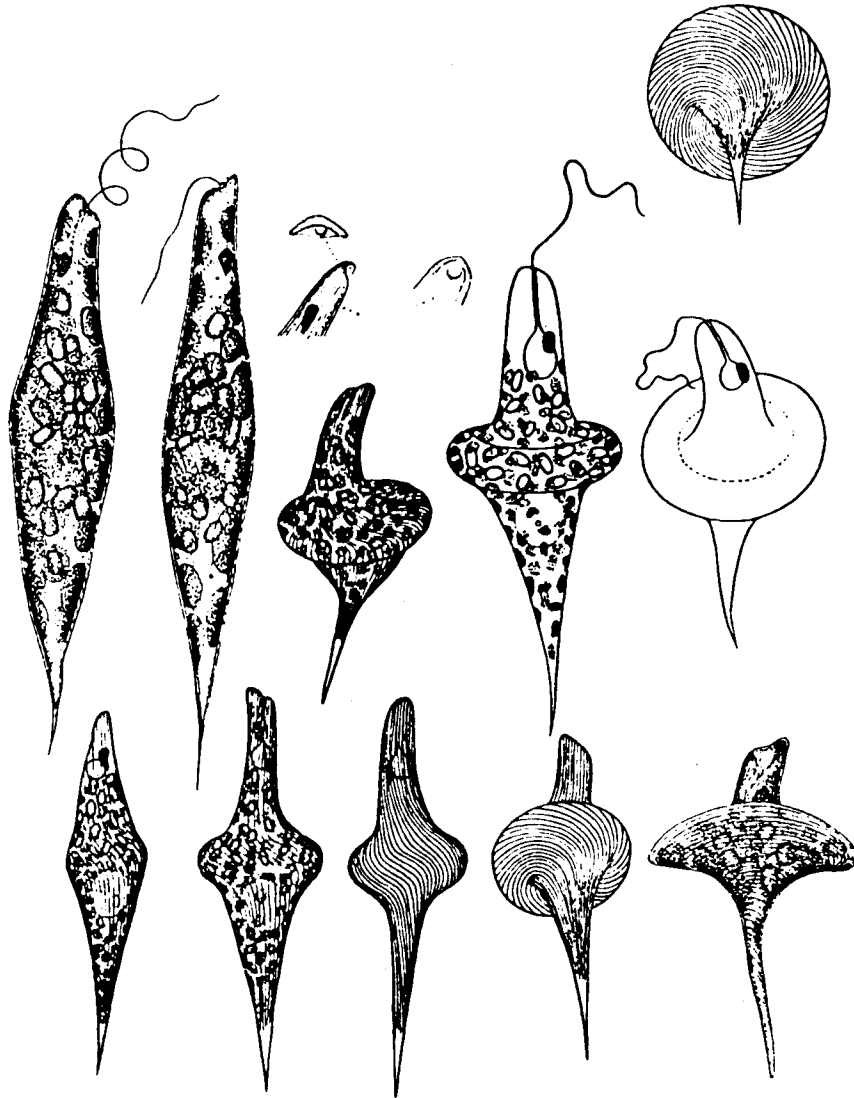


Species: *Euglena pathirhyncha* Skuja

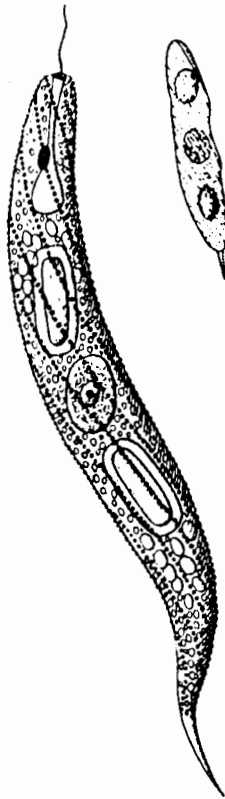
Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XVII.

Location: Erickson Lakes

Size: Cell - length 66-85 μ
- width 12-16 μ



- Species: *Euglena spirogyra* Ehrenberg
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XVIII.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
- Size: Cell - length 70-80 μ
- width 8 μ

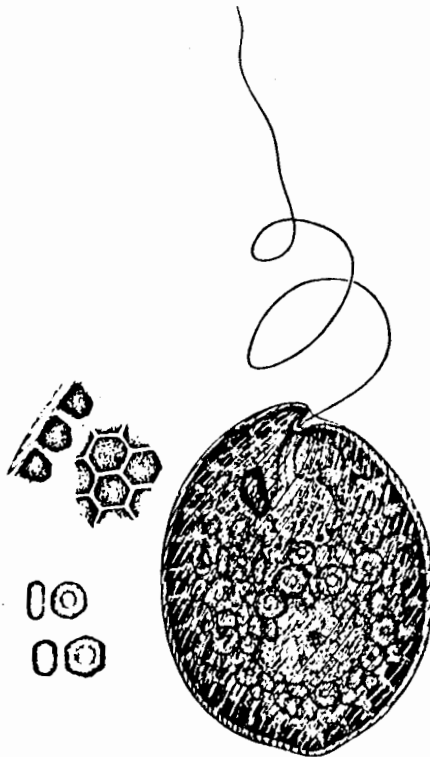


Species: *Euglena texta* (Dujardin) Hubner

Key: Skuja, H. 1948. Taxonomie des Phytoplankton einiger
Seen in Uppland, Schweden. Symb. Bot. Ups. IX. Taf. XXIII.

Location: Lake Winnipeg

Size: Cell - length 44-55 μ
- width 30-45 μ

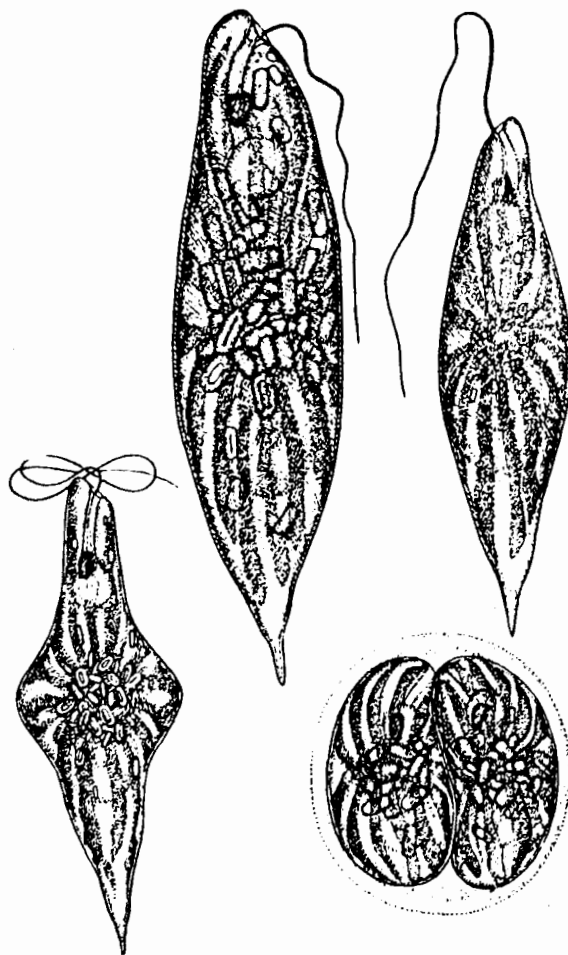


Species: *Euglena viridis* Ehrenberg

Key: Skuja, H. 1964. Grundzüge der Algenflora und Algenvegetation der Fjeldgegenden um Abisko in Schwedisch - Lappland. Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 18. No. 3. Taf. LIX.

Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake

Size: Cell - length 43-70 μ
- width 12-17 μ

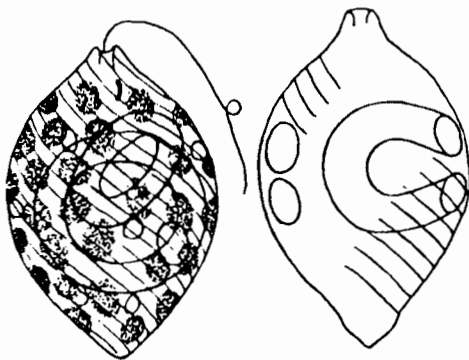


Species: *Lepocinclia swaiformis* (Carter) Lemmermann

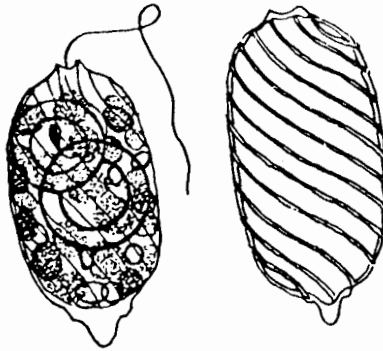
Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XXXI.

Location: Erickson Lakes

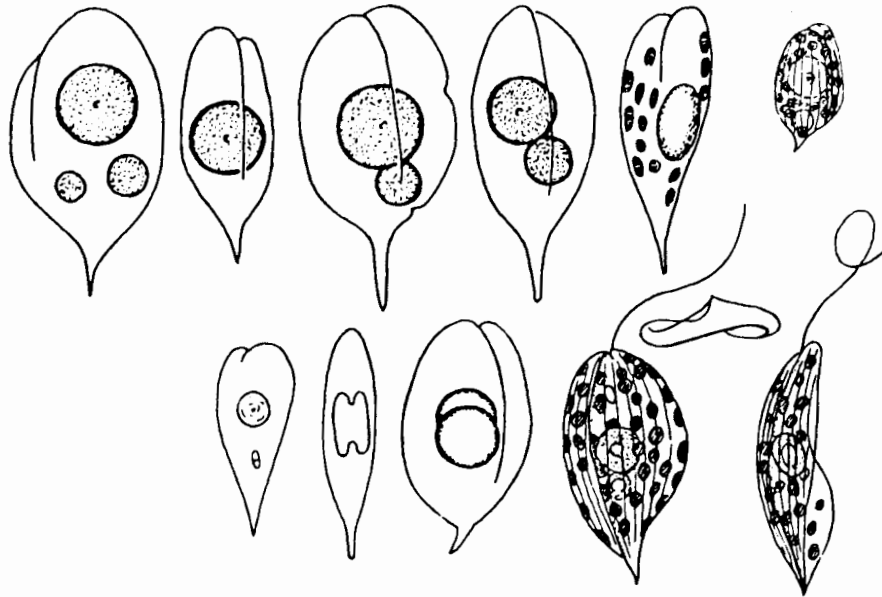
Size: Cell - length 25-51 μ
- width 12-39 μ



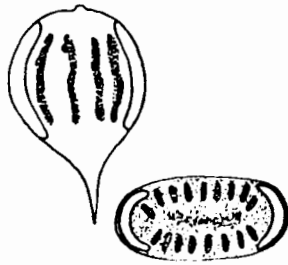
- Species: *Leposinalia ovum* (Ehrenberg) Lemmermann
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XXVIII.
- Location: Experimental Lakes Area (spring, summer)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 30-34 μ
- width 11-13 μ



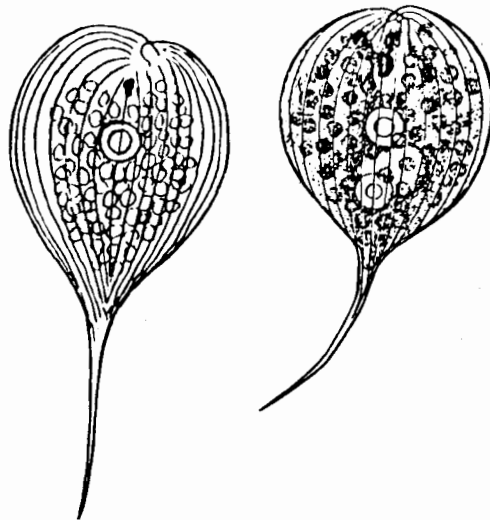
- Species: *Phaeos caudatus* Hubner
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XXXIX.
- Location: Experimental Lakes Area (spring, summer, fall)
Lake Winnipeg
Southern Indian Lake
Erickson Lakes
- Size: Cell - length 31-50 μ
- width 15-25 μ



- Species: *Phacua chloroplastea* Prescott
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LV.
- Location: Erickson Lakes
- Size: Cell - length 29-31 μ
- width 20-22 μ



- Species: *Phacus longicauda* (Ehrenberg) Dujardin
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XLIX.
- Location: Experimental Lakes Area (summer)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 85-190 μ
- width 40-70 μ

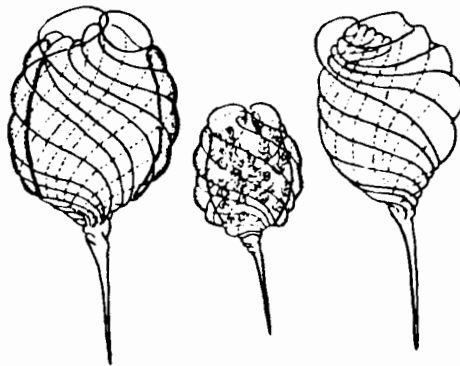


Species: *Phacua mirabilis* Pochmann

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LIV.

Location: Erickson Lakes

Size: Cell - length 32 μ
- width 17 μ
Spine - length 13 μ

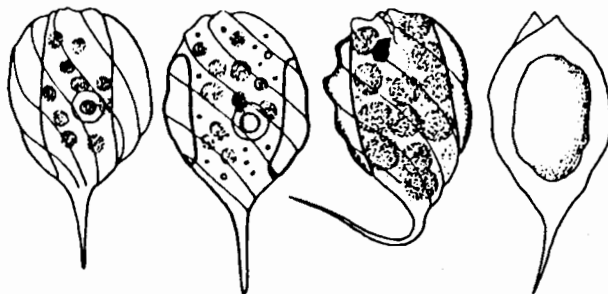


Species: *Phacus pseudonordstedii* Pochmann

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LIII.

Location: Erickson Lakes

Size: Cell - length 21-24 μ
- width 13-16 μ

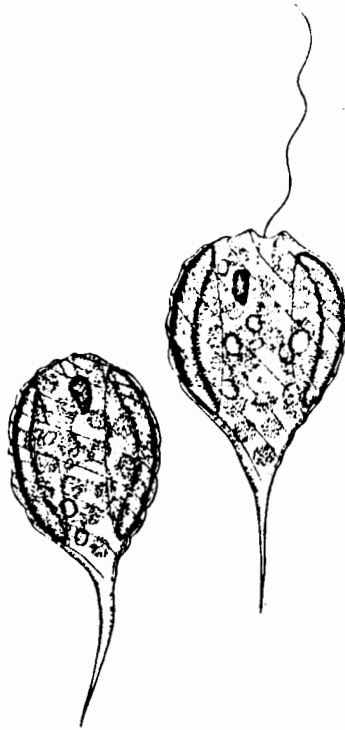


Species: *Phacus pyrum* (Ehrenberg) Stein

Key: Skuja, H. 1956. Taxonomische und Biologische Studien
Über das Phytoplankton Schwedischer Binnengewässer.
Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 16.
No. 3. Page 237. Taf. XLII.

Location: Lake Winnipeg

Size: Cell - length 20-24 μ
- width 17-19 μ
- thickness 14-16 μ

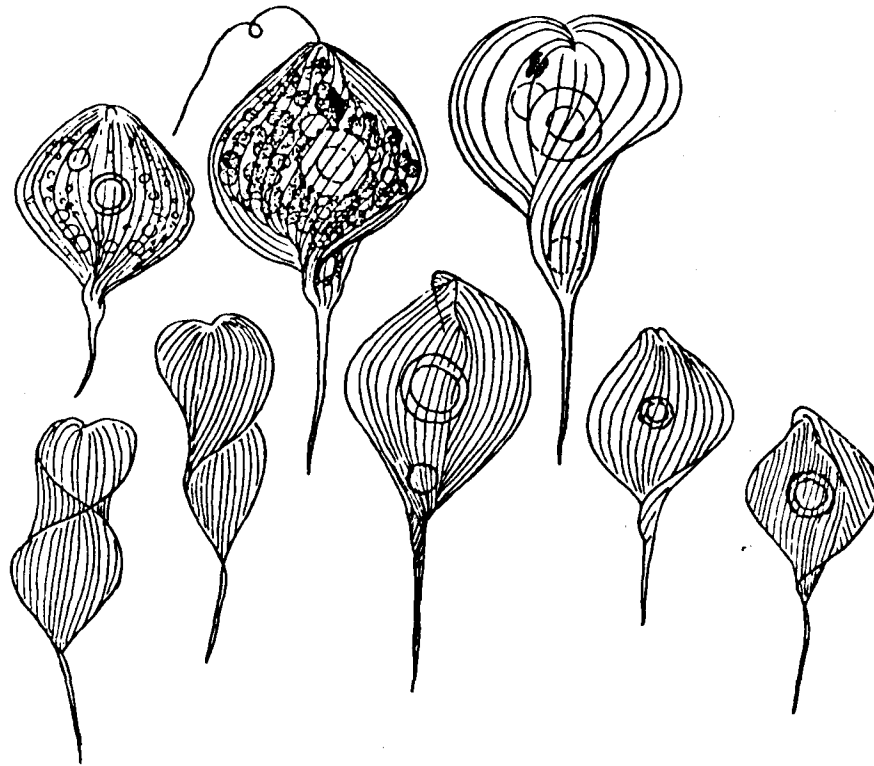


Species: *Phacus tortus* (Lemmermann) Skvortzow

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LI.

Location: Erickson Lakes

Size: Cell - length 80-112 μ
- width 38-52 μ

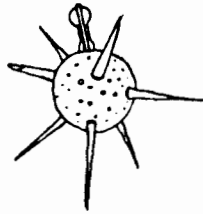


Species: *Trachelomonas americana* Lemmermann

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXXIV.

Location: Experimental Lakes Area (spring)

Size: Test - length 12 μ
- width 7 μ

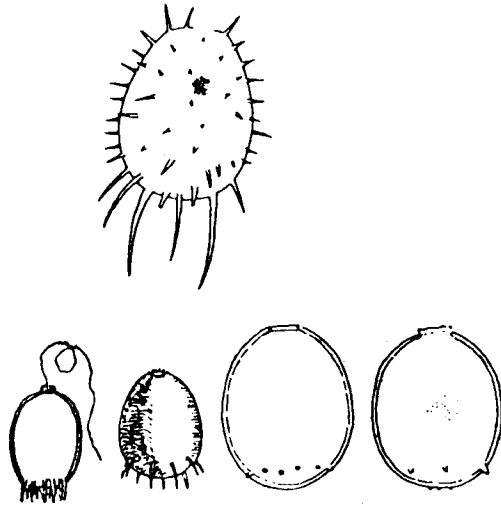


Species: *Trachulomonas armata* (Ehrenberg) Stein

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXVII.

Location: Erickson Lakes

Size: Test - length 24-37 μ
- width 22-36 μ
Spine - length 1-9 μ .



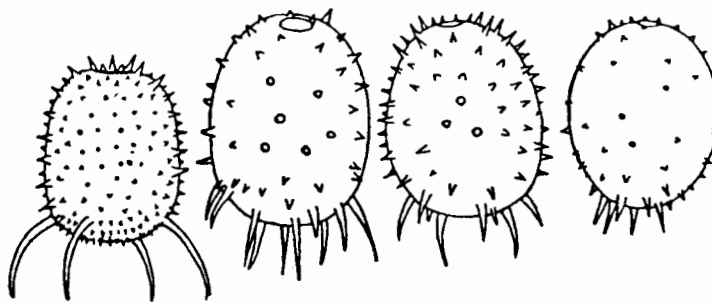
Species: *Trachelomonas armata* var. *longispina* (Playfair)

Deflandre

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXVII.

Location: Experimental Lakes Area (all year)

Size: Test - length 30-31 μ
- width 41-48 μ

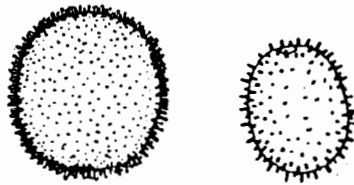


Species: *Traohelomonas baillifera* Playfair

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXV.

Location: Experimental Lakes Area (all year)

Size: Test - length 35-40 μ
- width 33-38 μ



Species: *Trachelomonas cylindrica* (Ehrenberg) Playfair

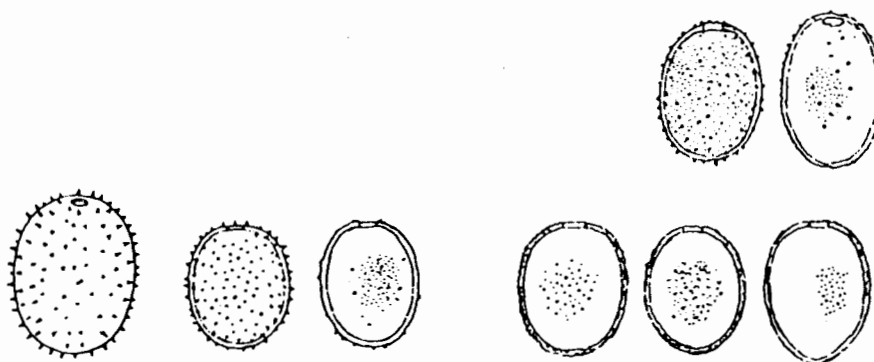
Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXIII.

Location: Experimental Lakes Area (all year)

Size: Test - length 16-20 μ
- width 8-10 μ
Collar - length 1 μ
- width 3 μ



- Species: *Trachelomonas hispida* (Perty) Stein
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXIII.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
- Size: Test - length 26-32 μ
- width 19-23 μ



- Species: *Trachelomonas intermedia* Dangeard
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXI.
- Location: Erickson Lakes
- Size: Test - length 19-22 μ
- width 15-17 μ



- Species: *Trachelomonas lacustris* var. *ovalis* Drezeplski
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXIII.
- Location: Experimental Lakes Area (spring)
- Size: Test - length 23-26 μ
- width 12-13.5 μ

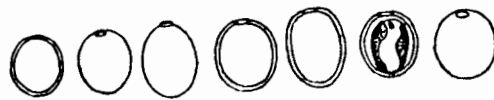


Species: *Trachelomonas oblonga* Lemmermann

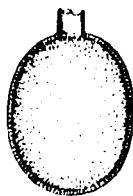
Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXI.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake

Size: Test - length 18-19 μ
- width 9-12 μ



- Species: *Trachelomonas planctonia* Swirenko
- Key: Skuja, H. 1956. Taxonomische und Biologische Studien
Über das Phytoplankton Schwedischer Binnengewässer.
Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 16.
No. 3. Page 240. Taf. XLII.
- Location: Lake Winnipeg
Southern Indian Lake
- Size: Test - length 19-25 μ
- width 17-20 μ
Collar - length 3-4 μ
- width 4-5 μ

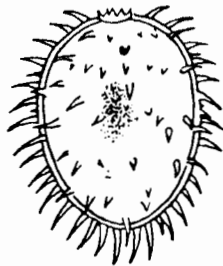


Species: *Trachelomonas spinosa* Stokes

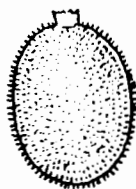
Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXV.

Location: Experimental Lakes Area (summer, fall)

Size: Test - length 38-40 μ
- width 30-31 μ
Spines - length 6-12 μ



- Species: *Trachelomonas spinulosa* (Skuja) Deflandre
- Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXIV.
- Location: Experimental Lakes Area (summer, fall)
- Size: Test - length 20 μ
- width 15 μ

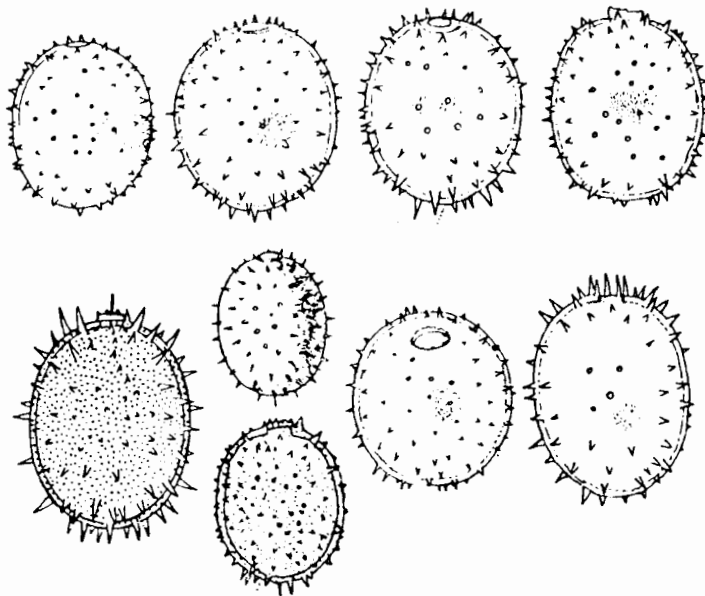


Species: *Trachelomonas superba* (Swirenko) Deflandre

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXVI.

Location: Experimental Lakes Area (spring, summer, fall)
Southern Inufan Lake

Size: Test - length 38-55 μ
- width 30-39 μ

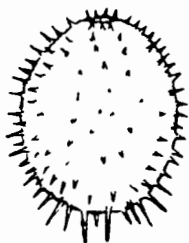


Species: *Trachelomonas superba* var. *spinosa* Prescott

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LXVI.

Location: Erickson Lakes

Size: Test - length 39-48 μ
- width 32.5-36 μ

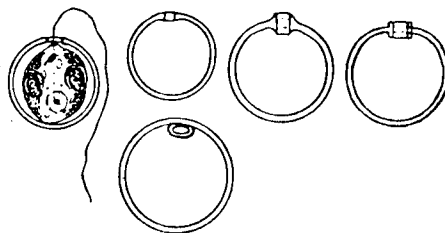


Species: *Trachelomonas voluosa* Ehrenberg

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. LVI.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
Erickson Lakes

Size: Test - diameter 7-21 μ



- Species: *Colacium arbuscula* Stein
- Key: Prescott, G. W. 1961. Algae of the Western Great Lakes Area. W. C. Brown Company Publishers. Dubuque, Iowa. Plate 89.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 12 - 16 μ
- diameter 8 - 10 μ

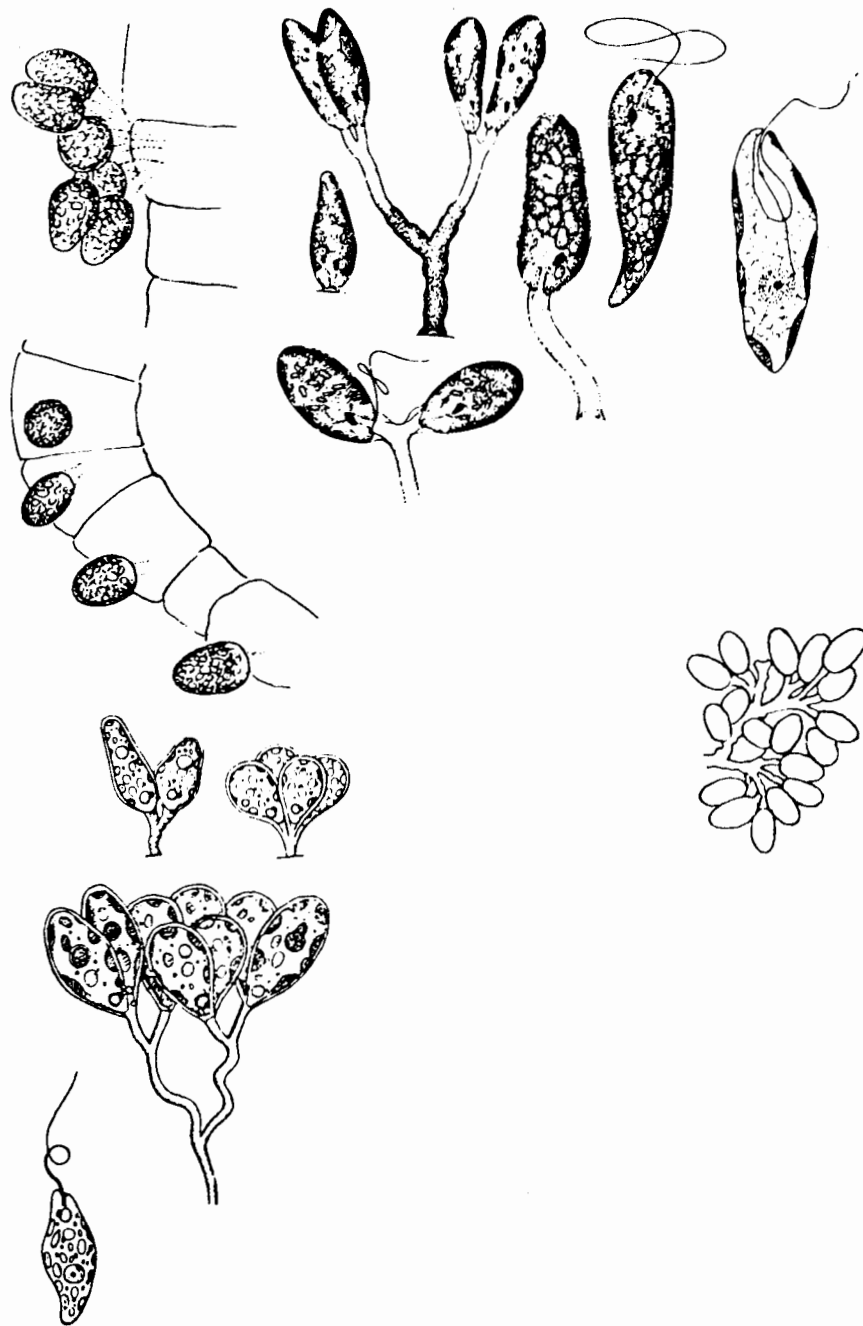


Species: *Colacium variolosum* Ehrenberg

Key: Huber-Pestalozzi, G. 1955. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 4.
Taf. XXIV.

Location: Experimental Lakes Area (all year)

Size: Cell - length 17.5-29 μ
- width 9-17 μ



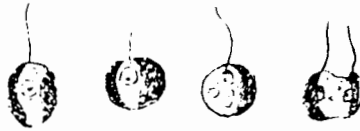
CHRYSOPHYCEAE

Species: *Chromulina elegans* Doflein

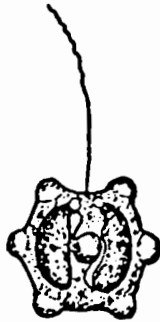
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. III.

Location: Saqvaquac

Size: Cell - length 3-4 μ
- width 2.5-4 μ



- Species: *Chromulina erkenais* Skuja
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium utgivet av Limnologiska Institutionen, Uppsala.
Matbiefko, O. M. 1965. Vznachnik prsnovodnih Vodorostei Ukrains, R.S.R. 3 Chastiya 1: Zolotisti vodorosti Chrysophyta. Page 130.
- Location: Experimental Lakes Area (all year)
Saqvaqjuac
Southern Indian Lake
Yellowknife Area
Erickson Lakes
- Size: Cell - diameter 4-9 μ

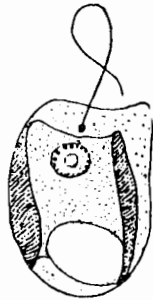


Species: *Chromulina magna* Doflein

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. III.

Location: Saqvaqujac

Size: Cell - length 15-18 μ
- width 8-15.5 μ

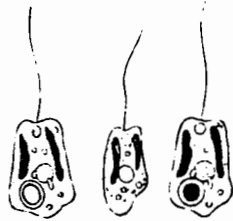


Species: *Chromulina minor* Pascher

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. V.

Location: Erickson Lakes

Size: Cell - length 7-11 μ
- width 4-9 μ



Species: *Chromulina vayanu* Pascher

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. IV.

Location: Erickson Lakes

Size: Cell - length 12-14 μ
- width 5-6 μ

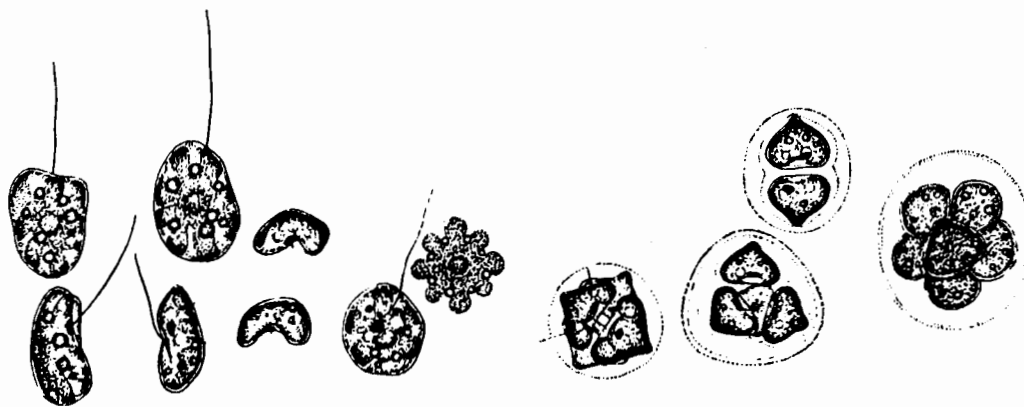


Species: *Phaeaster aphanaster* Skuja

Key: Skuja, H. 1948. Taxonomie des Phytoplankton Einiger Seen in
Uppland, Schweden. Symb. Bot. Ups. IX. Taf. XXVIII.

Location: Experimental Lakes Area (all year)
Southern Indian Lake
Lake Winnipeg

Size: Cell - length 7-12 μ
- width 5-9 μ
- thickness 3-6 μ



- Species: *Chrysoosocella biporus* Skuja
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XI.
- Location: Experimental Lakes Area (all year)
- Size: Cell - diameter 5-8 μ



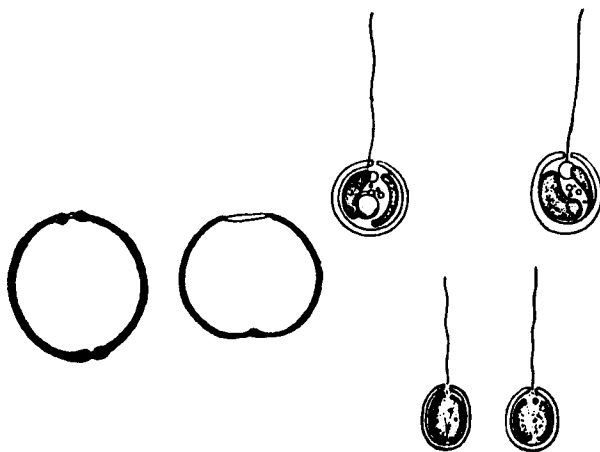
- Species: *Chrysococcus Klebsianus* Pascher
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XI.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - diameter 13-16 μ



- Species: *Chrysoococcus minutus* (Fritsch) Nygaard
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XI.
- Location: Experimental Lakes Area (all year)
Saqvaqjuac
- Size: Cell - diameter 5-10 μ



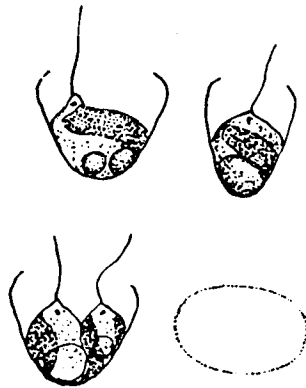
- Species: *Chrysoococcus rufescens* Klebs
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XI.
Fott, B. 1971. Algenkunde. Fischer. Jena.
- Location: Experimental Lakes Area (all year)
Saqvaqjuac (summer)
Erickson Lakes (spring, fall)
- Size: Cell - diameter 5-10 μ



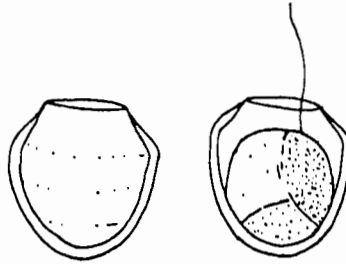
- Species: *Kephyrion boreale* Skuja
- Key: Matbiehko, O. M. 1965. Vznachnik prsnovodnikh
Vodorostei Ukrain, R.S.R. 3 Chastiya 1: Zolotisti
vodorosti-Chrysophyta. Page 282.
- Location: Experimental Lakes Area (spring, summer)
Saqvaqjuac
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake
- Size: Lorica - length 7-11 μ



- Species: *Kephyrion oupuliforme* Conrad
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium utigvet av Limnologiska Institutionen, Uppsala.
Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. XIII.
- Location: Experimental Lakes Area (summer, fall)
Erickson Lakes
- Size: Lorica - length 9-10 μ
- Note: In Technical Report No. 335 referred to as *Chrysooococcus oupuliforme*.



- Species: *Kephyrion littorale* Lund
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. *Nova Hedwigia* 14: 40-56.
- Location: Experimental Lakes Area (summer)
Saqvaqjuac
Lake Winnipeg
Southern Indian Lake
- Size: Lorica - length 4.8-5.1 μ
- width 6-6.8 μ



Species: *Kephyrion obliquum* Hilliard

Key: Fritsch Collection of Algae. Freshwater Biological Association.
Hilliard, D. K. 1966. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. V. Notes on the Taxonomy and Occurrence of Phytoplankton in an Alaskan Pond. *Hydrobiologia* 28: 553-576.

Location: Experimental Lakes Area (spring, summer, fall)

Size: Lorica - length 7-9.5 μ
- width 6-7 μ
Opening 4-4.5 μ
Protoplast - length 6.5-7 μ
- width 6-6.5 μ



- Species: *Kephyrion petasatum* Conrad
- Key: Borrelly, P. 1957. Recherches sur les Chrysophycées.
. . . Rev. Algol. Memoire Hors-Serie, No.1.
Thesis prés. a. La Fac. D. Sci. Univ. Paris, Sér A,
No. 2704. Page 261.
- Location: Erickson Lakes
- Size: Lorica - length 5-7 μ
- width 5 μ
Opening - diameter 7 μ

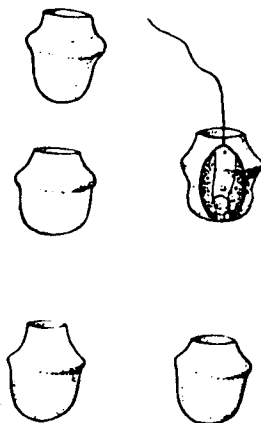


Species: *Kephyrion Huberi-oluwatri* Conrad

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XIII.

Location: Experimental Lakes Area (winter)
Erickson Lakes (spring, summer)
Southern Indian Lake (spring, fall)
Lake Winnipeg (spring, fall)

Size: Lorica - length 6-8 μ
- width 4-5 μ
- opening 3-4 μ



Species: *Kephyrion spirale* (Lackey) Conrad

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XIII.

Hilliard, D. K. 1967. Studies on Chrysophyceae from
Some Ponds and Lakes in Alaska VII. Notes on the
genera *Kephyrion*, *Kephyriopsis* and *Puculokephyrion*.
Nova Hedwigia 14: 40-56.

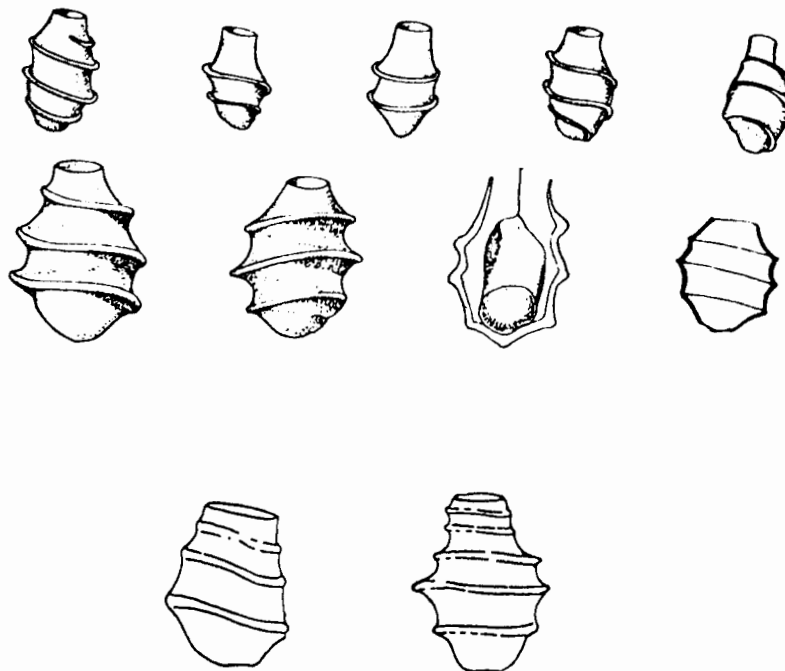
Location: Experimental Lakes Area (spring, summer)

Saqvaqujac

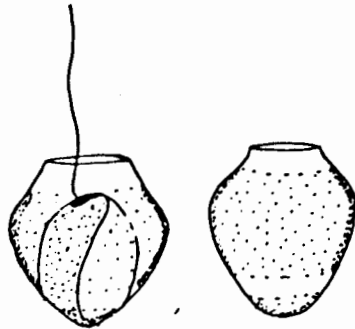
Erickson Lakes

Southern Indian Lake

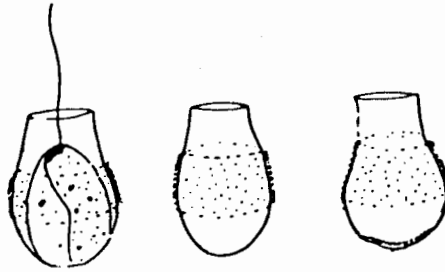
Size: Lorica - length 7-8 μ
- width 4 μ



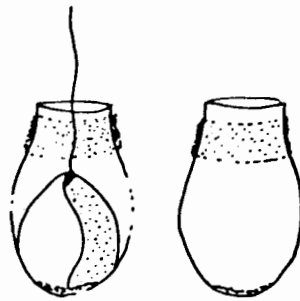
- Species: *Kephyriopsis oordata* Hilliard
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. *Nova Hedwigia* 14: 40-56.
- Location: Experimental Lakes Area (fall)
Saqvaqjuac
- Size: Lorica - length 6.2-7 μ
- width 6-6.2 μ
Opening 2.2-2.6 μ
Protoplast - length 5.2-6 μ



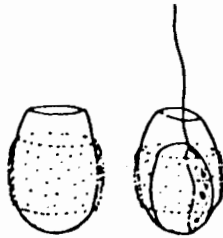
- Species: *Kephyriopsis elegans* Hilliard
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. *Nova Hedwigia* 14: 40-56.
- Location: Experimental Lakes Area (spring, summer, fall)
- Size: Cell - length 7-9 μ
- width 6-8 μ



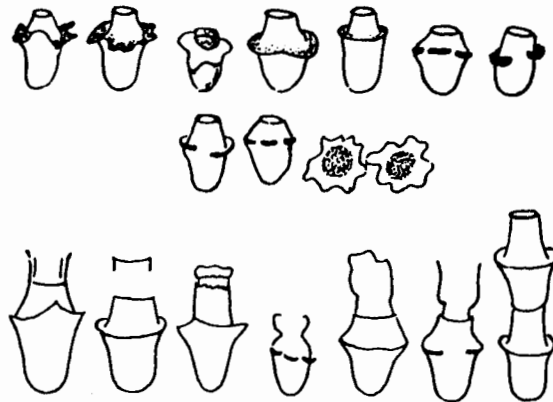
- Species: *Kephyriopsis gracilis* Hilliard
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. Nova Hedwigia 14: 40-56.
- Location: Experimental Lakes Area (spring, summer)
Saqvaqjuac
- Size: Lorica - length 6.8-8 μ
- width 4.5-5 μ
Opening 3-3.5 μ
Protoplast - diameter 4.7-5.2 μ



- Species: *Kephyriopsis zimetica* Hilliard
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. Nova Hedwigia 14: 40-56.
- Location: Experimental Lakes Area (spring)
Saqvaqujac
- Size: Lorica - length 5-5.5 μ
- width 3.8-4.5 μ
Opening 2-2.4 μ
Protoplast - length 3.5-4 μ
- width 2.5-2.8 μ



- Species: *Stenocalyx monilifera* (Gerloff) Schmid
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XIV.
Fott, B. 1971. Algenkunde. Fischer. Jena.
- Location: Experimental Lakes Area (spring, summer, fall)
Erickson Lakes (spring, summer, fall)
Lake Winnipeg (spring, summer, fall)
Southern Indian Lake (summer)
- Size: Lorica - length 7-8 μ
- width 4-5 μ
- width at flange 5.8 μ
Cysts - diameter 3-3.5 μ

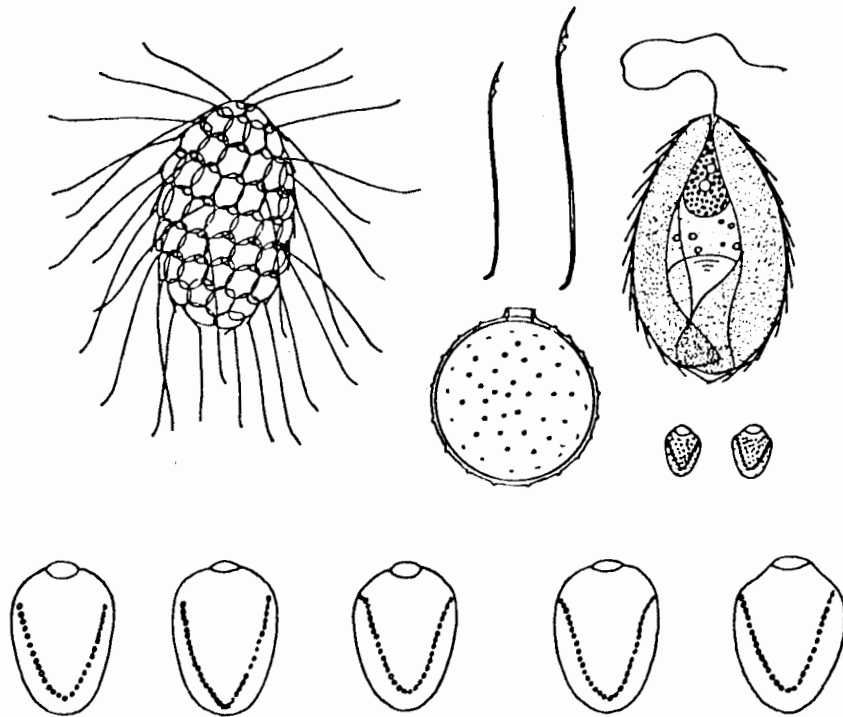


Species: *Mallomonas acaroides* Perty

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXIV.

Location: Experimental Lakes Area (all year)
Erickson Lakes (spring, fall)
Southern Indian Lake (spring, summer, fall)
Lake Winnipeg (summer)
Char Lake

Size: Cell - length 13-33 μ
- width 10-17 μ
Scales - length 4-7 μ
- width 3-4 μ
Spines - length 20-35 μ
Cysts - diameter 20 μ

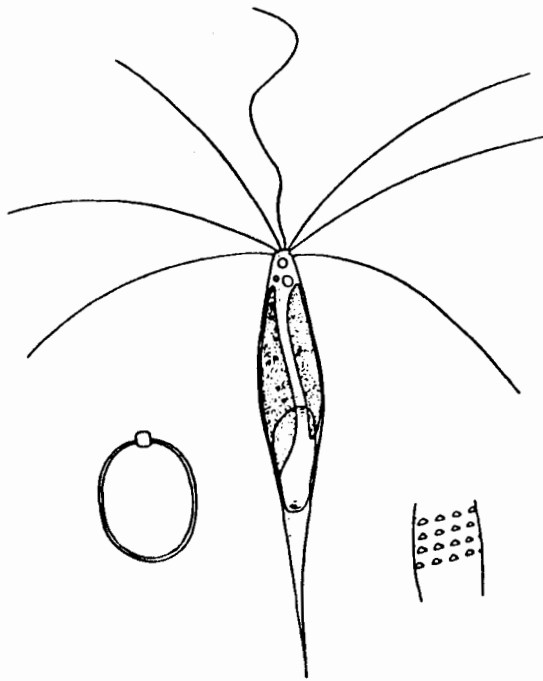


Species: *Mullomonas akrokomos* Ruttner

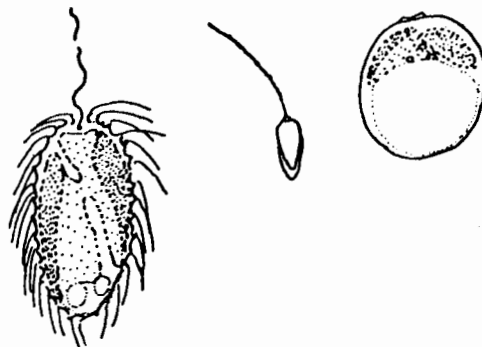
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XVII.

Location: Experimental Lakes Area (summer, fall)
Southern Indian Lake (summer, fall)
Yellowknife area (summer, fall)

Size: Cell - length 23-62 μ
- width 4.5-15 μ
Cysts - length 9-15 μ
- width 8-12 μ



- Species: *Mallomonas* cf. *aartia* Harris and Bradley
- Key: Fritsch Collection of Algae. Freshwater Biological Association.
Harris, K. and D. E. Bradley. 1960. A Taxonomic Study of *Mallomonas*. J. Gen. Microbiol. 22: 750-777.
- Location: Experimental Lakes Area (summer)
- Size: Cell - length 17-33 μ
- width 12-20 μ
Spines - length 6-15 μ
Cysts - diameter 20-22 μ

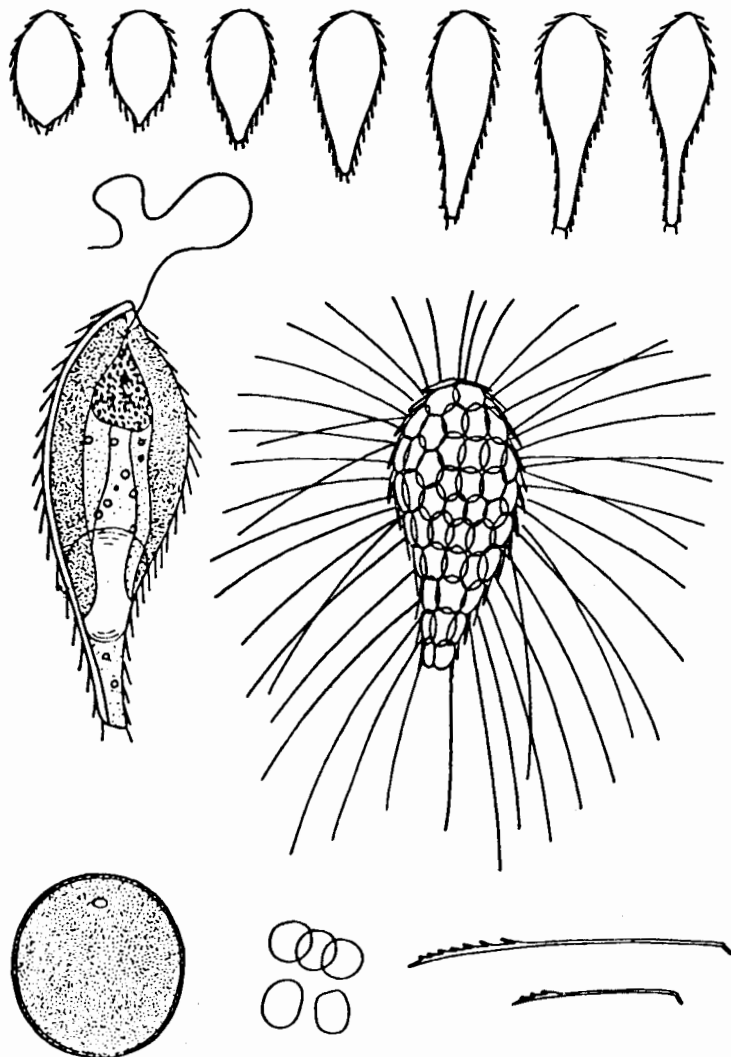


Species: *Mullomonas caudata* Iwanoff

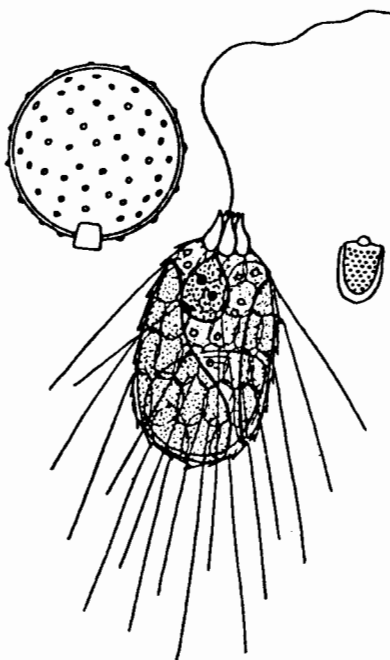
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXIII.

Location: Experimental Lakes Area (all year)
Erickson Lakes (spring, fall)
Southern Indian Lake (all year)
Yellowknife area (summer)
Lake Winnipeg (spring, fall)
Char Lake

Size: Cell - length 40-100 μ
- width 20-30 μ
Scales 7-9 μ
Cysts - diameter 20-35 μ



- Species: *Mastomona ooronata* Bolochonzew
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. XXVI.
- Matbuehko, O. M. 1965. Vznachnik prsnovodnikh Vodorostei Ukrain R.S.R. 3 Chastiya 1: Zolotisti vodorosti-Chrysophyta. Page 192.
- Fritsch Collection of Algae. Freshwater Biological Association.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - length 20-45 μ
- width 11-24.5 μ
Scales - length 4-5.5 μ
Cysts - diameter 23 μ

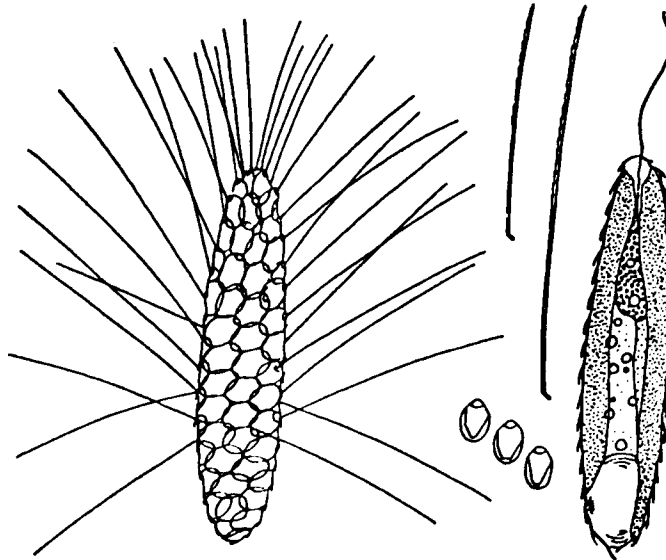


Species: *Mallomonas elongata* Reverdin

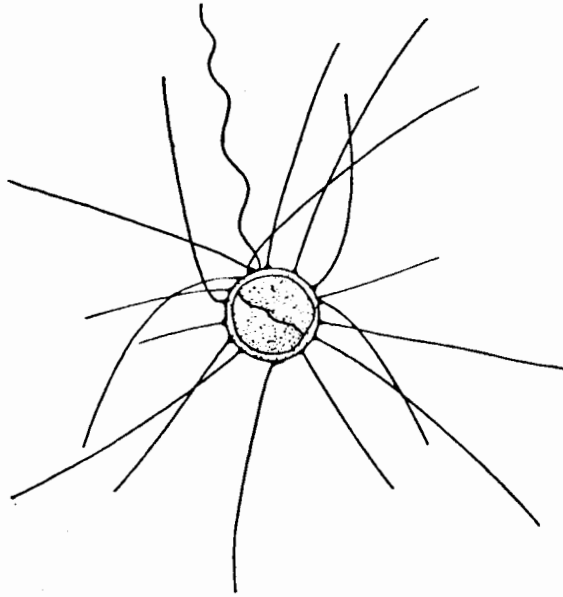
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXVII.

Location: Experimental Lakes Area (all year)
Erickson Lakes
Yellowknife area
Lake Winnipeg
Southern Indian Lake (summer)

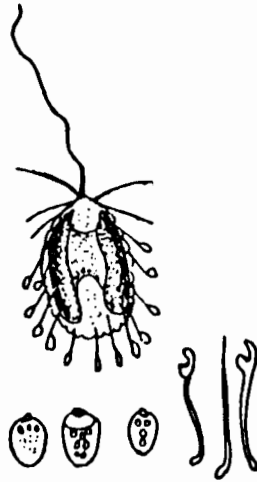
Size: Cell - length 45-65 μ
- width 12-15 μ
Scale - 4.5-6 μ
Spine - length 45-70 μ
Cysts - diameter 21-32 μ



- Species: *Melomonas globosa* Schiller
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. XVII.
- Location: Experimental Lakes Area (all year)
Erickson Lakes (spring, fall)
- Size: Cell - diameter 12-13 μ



- Species: *Mallonomas heterospina* Lund
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium utgivet av Limnologiska Institutionen, Uppsala. Fritsch Collection of Algae. Freshwater Biological Association.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - length 18-21 μ
- width 12-15 μ



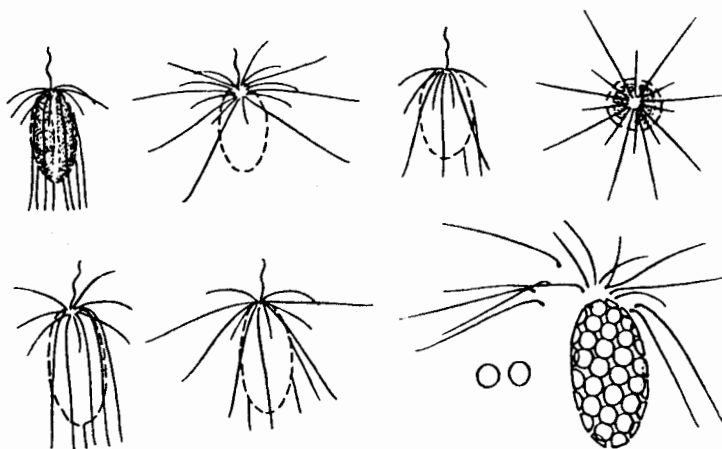
Species: *Mallomonas heterotrichia* Nygaard

Key: Fritsch Collection of Algae. Freshwater Biological Association.

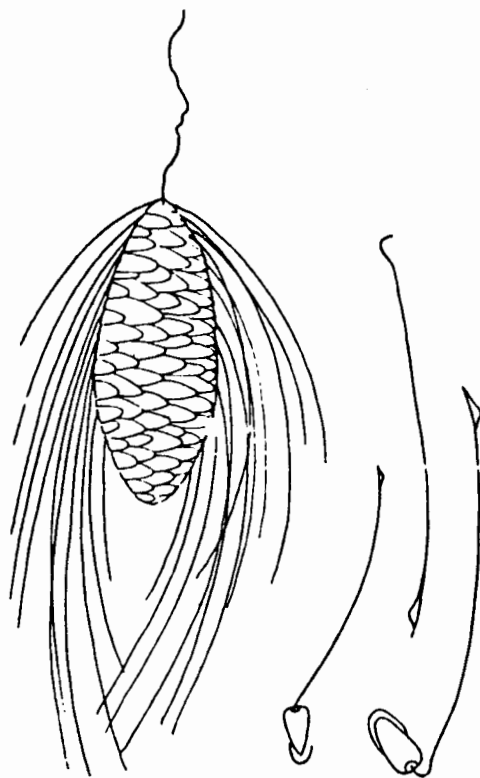
Nygarrd, G. 1949. Hydrobiological Studies on Some Danish Ponds and Lakes. Part II. The Quotient-Hypothesis and Some New or Little Known Phytoplankton Organisms. K. dan. Vidensk. Selsk. Biol. Skr. Bind 7. Nr.1.

Location: Experimental Lakes Area (summer, fall)

Size: Cell - length 16-21 μ
 - width 8-10 μ
 Spines - length 18-25 μ
 Scales - length 2-2.5 μ



- Species: *Mallomonas intermedia* Kisselow
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. XXV.
- Asmund, B. 1956. Electron Microscope Observation on *Mallomonas* Species and Remarks on Their Occurrence in Some Danish Ponds. Bot. Tidsskr. 52: 163-168.
- Location: Experimental Lakes Area (summer, fall)
Southern Indian Lake
- Size: Cell - length 20-40 μ
- width 12-20 μ
Scale - length 5-6 μ
- width 3.5-4.5 μ
Cysts - diameter 16-17 μ

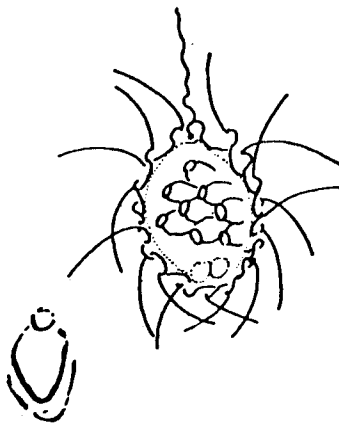


Species: *Mallomonas lelymene* Harris and Bradley

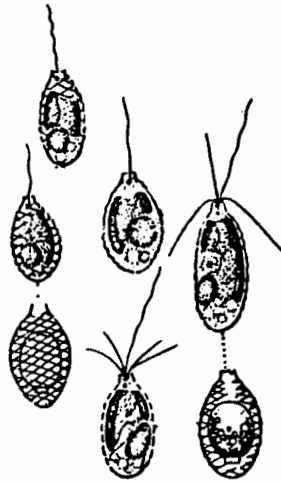
Key: Fritsch Collection of Algae. Freshwater Biological Association.
Harris, K. and D. E. Bradley. 1960. A Taxonomic
Study of *Mallomonas*. J. Gen. Microbiol. 22: 750-777.

Location: Experimental Lakes Area (summer, fall)

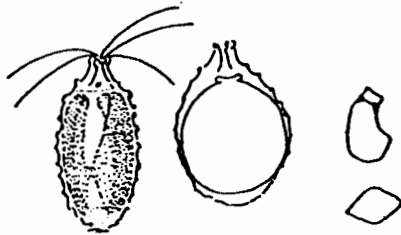
Size: Cell - length 19-27 μ
- width 13-17 μ



- Species: *Millomonas majorensis* Skuja
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XVIII.
- Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg (summer)
- Size: Cell - length 12-20 μ
- width 5-8 μ
Spines - length 8-10 μ



- Species: *Mallomonas mangofera* Harris and Bradley
- Key: Fritsch Collection of Algae. Freshwater Biological Association.
Harris, K. and D. E. Bradley. 1960. A Taxonomic Study of *Mallomonas*. J. Gen. Microbiol. 22: 750-777.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - length 14-30 μ
- width 7-12 μ
Spines - length 13-17 μ
Cysts - length 18-20 μ
- width 17-18 μ



Species: *Mallomonas multivirga* Asmund

Key: Fritsch Collection of Algae. Freshwater Biological Association.

Harris, K. and D. E. Bradley. 1960. A Taxonomic Study of *Mallomonas*. J. Gen. Microbiol. 22: 750-777.

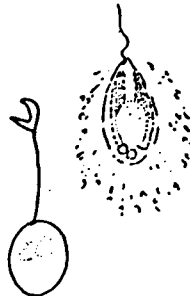
Asmund, B. 1956. Electron Microscope Observations on *Mallomonas* Species and Remarks on Their Occurrence in Some Danish Ponds. Bot. Tidsskr. 52: 163-168.

Location: Experimental Lakes Area (summer, fall)

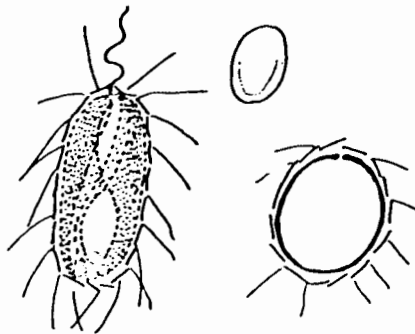
Size: Cell - length 14-22 μ

- width 8-12 μ

Cysts - diameter 13-15 μ



- Species: *Mallomonas oviformis* Nygaard
- Key: Fritsch Collection of Algae. Freshwater Biological Association.
Conrad, W. 1927. Essai d'une Monographie des Genres *Mallomonas* Perty (1852) et *Pseudomallomonas* Chodat (1920). Arch. Protistenkd. 59: 423-505.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - length 20-32 μ
- width 12-20 μ
Scales - length 5-7 μ
- width 3-4 μ
Spine - length 8-20 μ
Cysts - diameter 18-20 μ

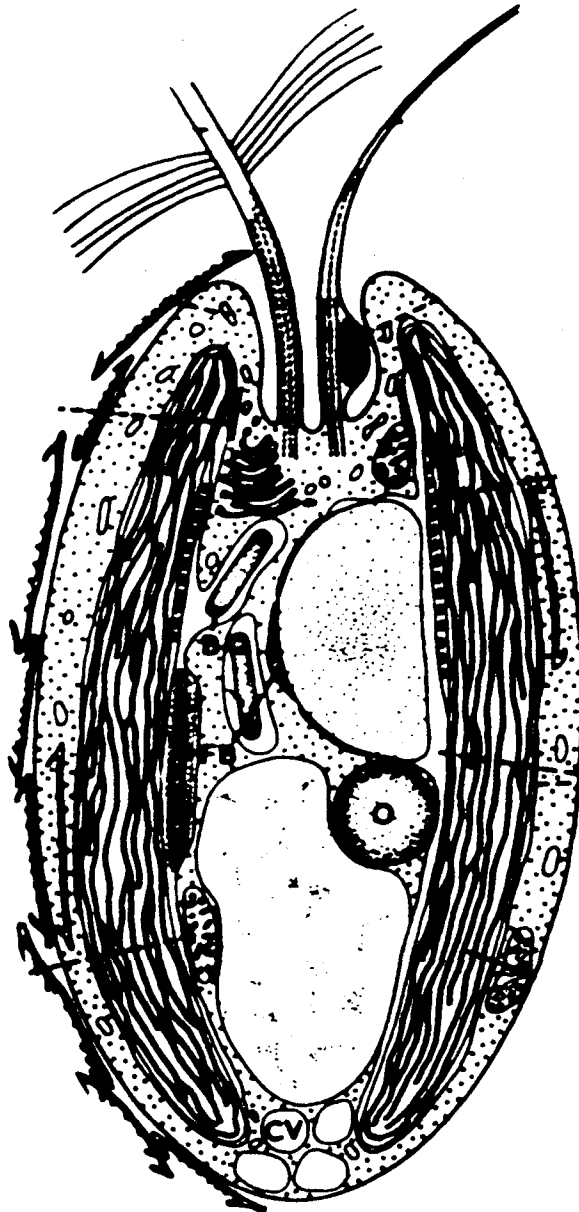


Species: *Mallomonas papilloea* Harris and Bradley

Key: Harris, K. and D. E. Bradley. 1960. A Taxonomic Study of *Mallomonas*. J. Gen. Microbiol. 22: 750-777. Fritsch Collection of Algae. Freshwater Biological Association.

Location: Experimental Lakes Area (summer)

Size: Cell - length 7-9 μ
- width 5-6 μ
Scales - length 2-3 μ
- width 1.5-1.8 μ
Spines - length 3.5-5 μ



Species: *Mallomonas producta* Iwanoff var. *marahica* Lemmermann

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXI.

Fritsch Collection of Algae. Freshwater Biological Association.

Conrad, W. 1927. Essai d'une monographie des Genus

Mallomonas Perty (1852) et *Pseudomallomonas* Chodat (1920).

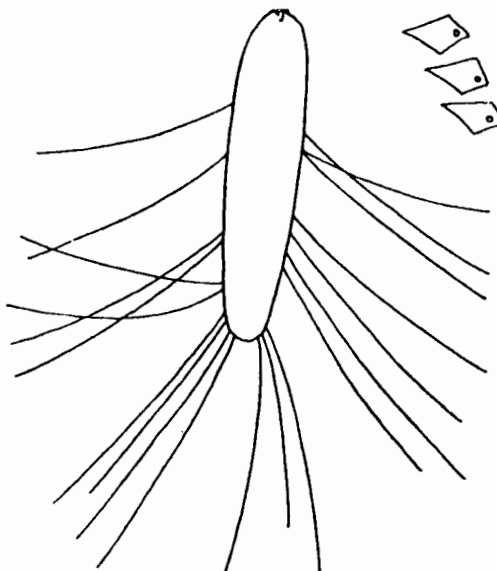
Arch. Protistenkd. 59:423-505.

Location: Experimental Lakes Area (summer)

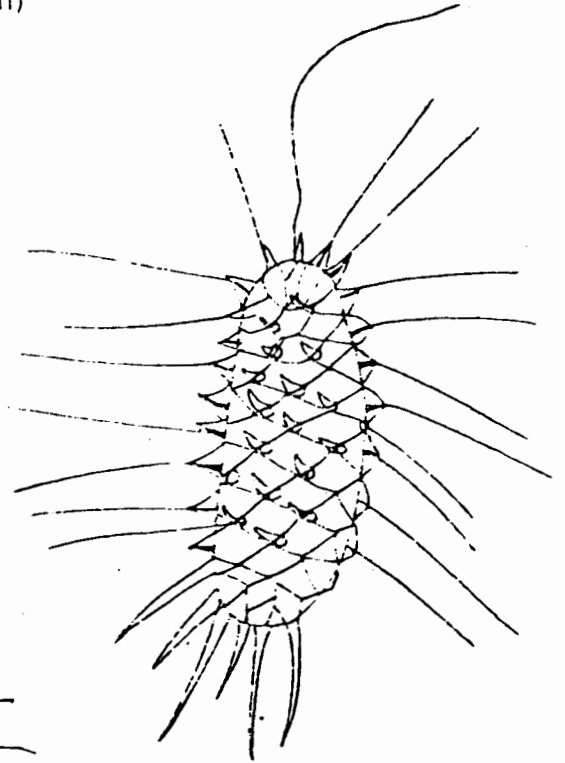
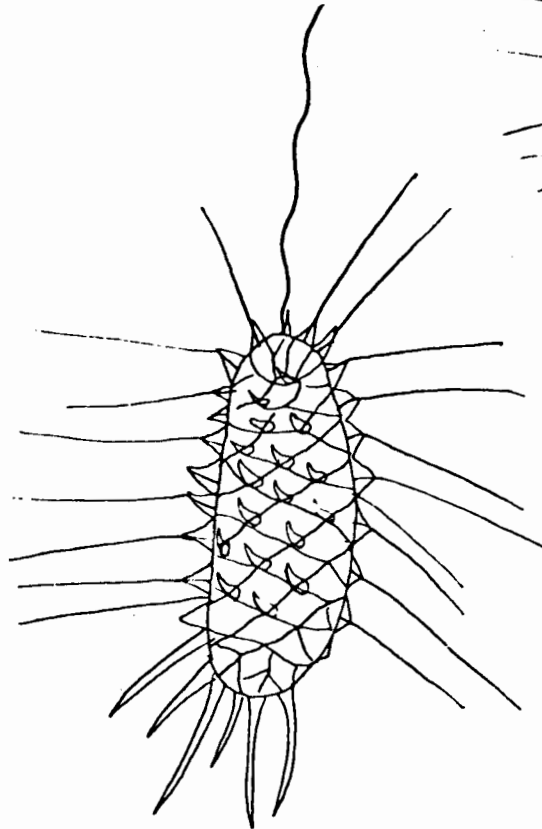
Erickson Lakes

Size: Cell - length 21-26 μ

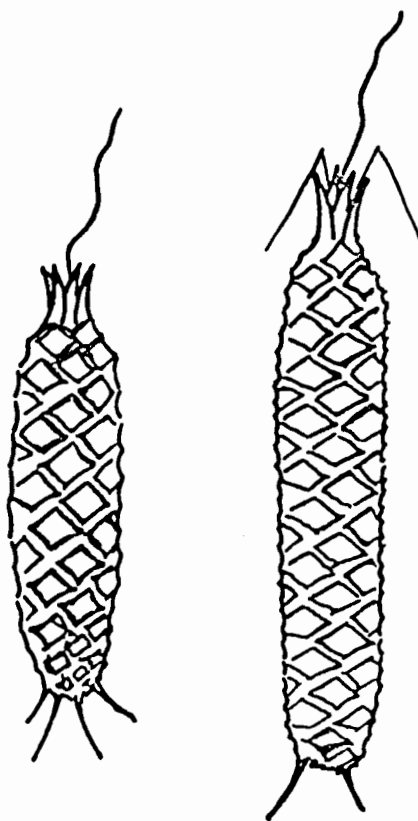
- width 11-12 μ



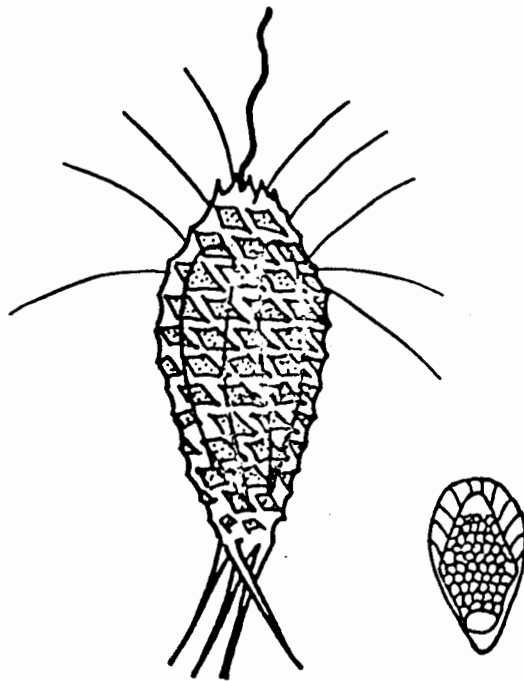
- Species: *Mallomonas pseudoooronata* Prescott
- Key: Asmund, B. and D. K. Hilliard. 1961. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. I. *Mallomonas* Species Examined with the Electron Microscope. *Hydrobiologia* 17: 237-257.
- Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake (spring, summer, fall)
Lake Winnipeg
- Size: Cell - length 16-35 μ
- width 7-14 μ
Scales - length 6-12 μ
- width 5-12 μ
Spines - length 13-25 μ



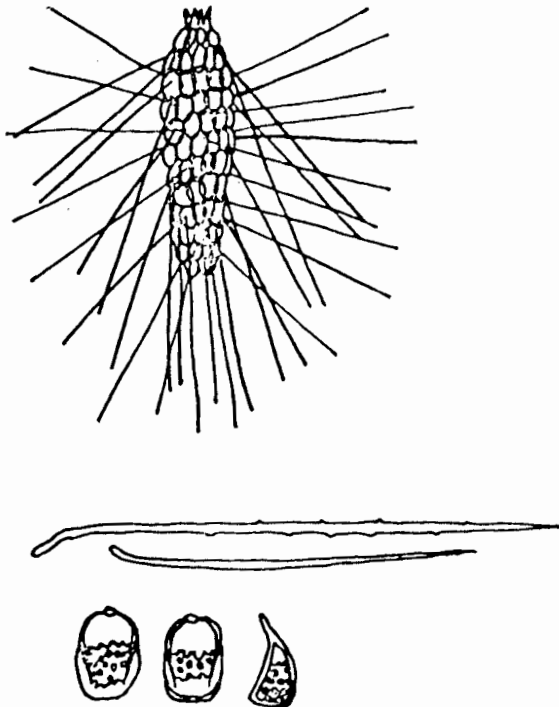
- Species: *Mallomonas pumilio* Harris and Bradley
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.
- Location: Experimental Lakes Area (summer, fall, winter)
Erickson Lakes (spring, fall)
Southern Indian Lake (spring, summer, fall)
Lake Winnipeg (spring, summer, fall)
- Size: Cell - length 12-30 μ
- width 5-10 μ
Spines - length 8-10 μ



- Species: *Mallomonas pumilio* var. *canadensis* Holmgren
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium utigvet av Limnologiska Institutionen, Uppsala.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake
- Size: Cell - length 30-55 μ
- width 12-20 μ
Scales - length 5-7 μ
- width 3-4 μ
Spines - length 10-20 μ
- Note: In Technical Report 337 is called *M. pumilio* var. Harris et Bradley.



- Species: *Mallomonas reginae* Teiling
- Key: Fritsch Collection of Algae. Freshwater Biological Association.
Lund, J. W. G. 1950. Algological Notes 1-111. Naturalist. p. 45-49.
Teiling, E. 1946. Zur Phytoplanktonflora Schweden. Bot. Not. 1: 61-88.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake
- Size: Cell - length 15-35 μ
- width 12-20 μ
Scales - length 5-7 μ
- width 4-6 μ
Cysts - diameter 16-20 μ



- Species: *Mallomonas rhopaloides* Conrad
- Key: Conrad, W. 1927. Essai d'une Monographic des Genres
Mallomonas Perty (1952) et *Pseudomallomonas* Chodat
(1920). Arch. Protistenkd. 59: 423-505.
- Location: Experimental Lakes Area (summer)
- Size: Cell - length 12-26 μ
- width 4.5-7 μ
Spines - length up-10 μ

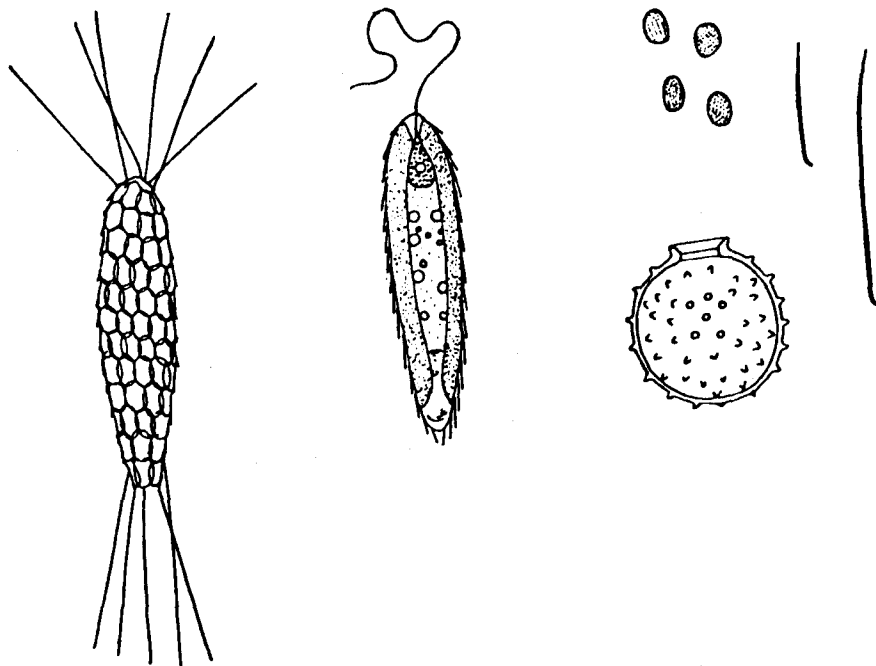


Species: *Melomonas Tellingii* (Telling) Conrad

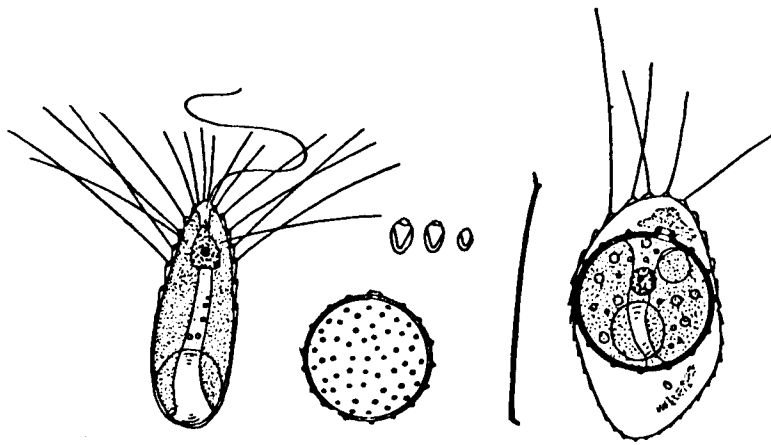
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band. XVI. Teil 2:1.
Taf. XXX.

Location: Experimental Lakes Area (summer, fall)

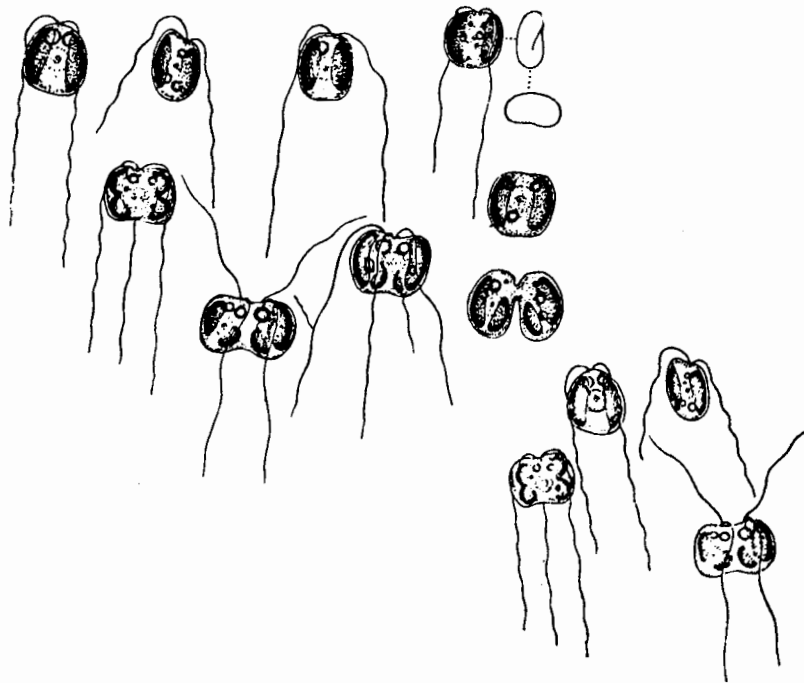
Size: Cell - length 45-60 μ
- width 10-21 μ
Scale - diameter 6-8 μ
Spines - length 13-43 μ



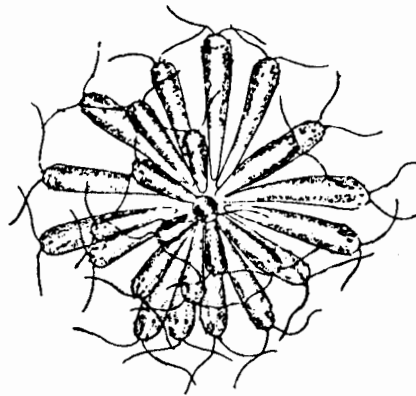
- Species: *Mallomonas tenebrata* Teiling
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXV.
- Location: Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Saqvaqujac
- Size: Cell - length 20-30 μ
- width 8-9 μ
Cysts - diameter 12-15 μ



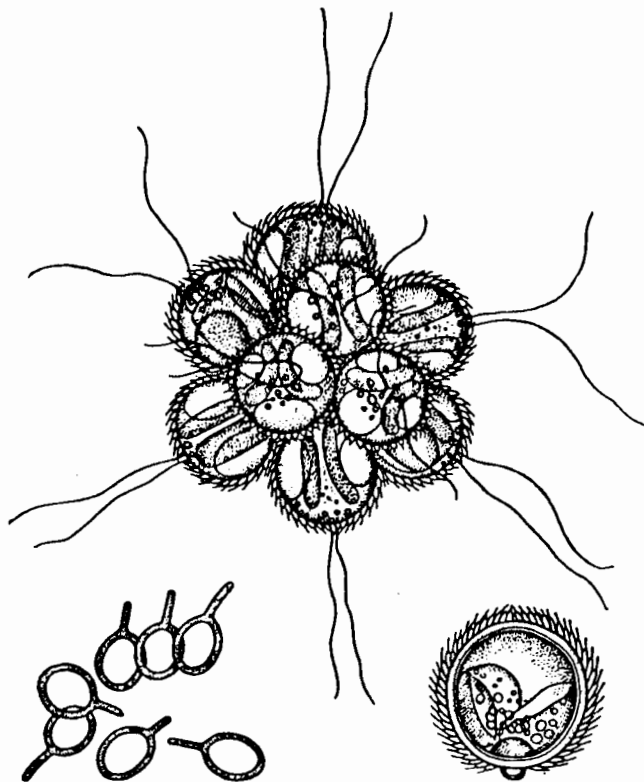
- Species: *Erkenia subaequiciliata* Skuja
- Key: Matbienko, O. M. 1965. Vznachnik prsnovodnikh Vodorostei Ukraini, R.S.R. 3 Chastiya 1: Zolotisti vodorosti-Chrysophyta. Page 228.
 Skuja, H. 1964. Grundzüge der Algenflora und Algenvegetation der Fjeldgegenden um Abisko in Schwedisch-Lappland. Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 18. No. 3. Taf. XXIX.
- Location: Experimental Lakes Area (all year)
 Saqvaqujac Char Lake
 Erickson Lakes
 Southern Indian Lake
 Lake Winnipeg
- Size: Cell - length 4-6 μ
 - width 4.5 μ



- Species: *Synura Aclanuii* G. M. Smith
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Page 145.
- Location: Experimental Lakes Area (summer, fall)
Southern Indian Lake
- Size: Cell - length 42-47 μ
- width 6.5-10 μ



- Species: *Synura sphagnicola* Korschikow
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Page 138.
Fott, B. 1971. Algenkunde. Fischer. Jena.
- Location: Experimental Lakes Area (spring, summer)
Southern Indian Lake
- Size: Cell - diameter 10-12 μ
Colony - diameter 35-40 μ
- Note: *S. sphagnicola* when found in acid bogs generally has red hematochrome pigment spots in the anterior end of the cell. It has often been observed congregated around the dead bodies of zooplankton.

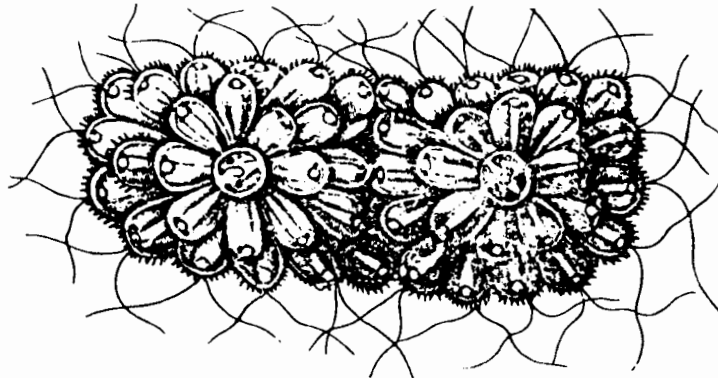
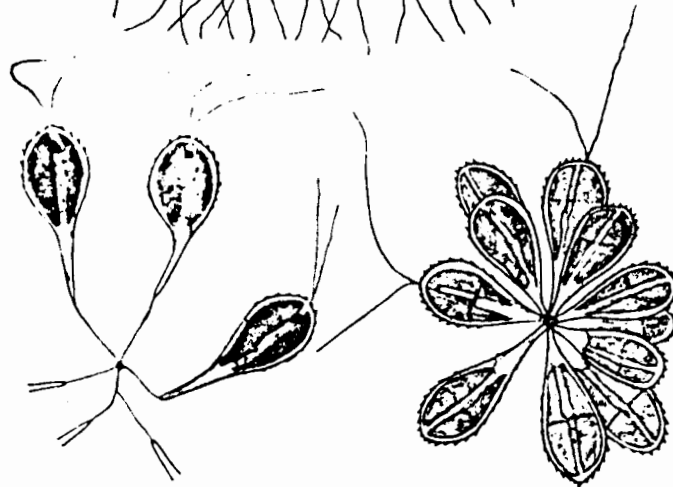
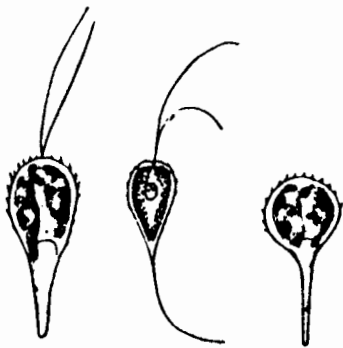
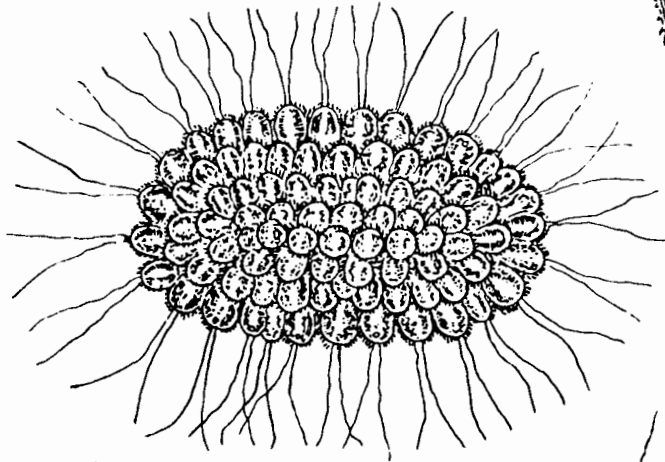
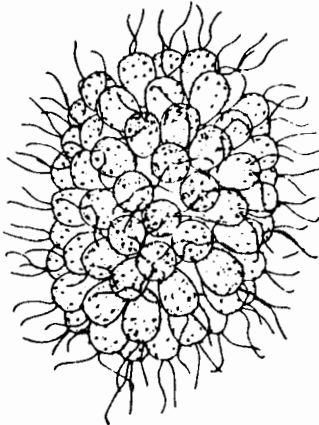
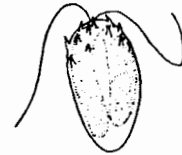


Species: *Synura wuella* Ehrenberg and Korshikow

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXXV.
Fott, B. 1971. Algenkunde. Fischer. Jena.

Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake
Lake Winnipeg
Saqvaqjuac

Size: Cell - length 20-40 μ
- width 8-17 μ
Colony - diameter 100-400 μ
Cysts - diameter 17-21 μ



Species: *Dinobryon acuminatum* Ruttner

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Page 214.

Location: Experimental Lakes Area (spring, summer, fall)
Erickson Lakes
Saqqajuac

Size: Lorica - length 30-38 μ
- width 5-6.5 μ
Cysts - diameter 10-11 μ



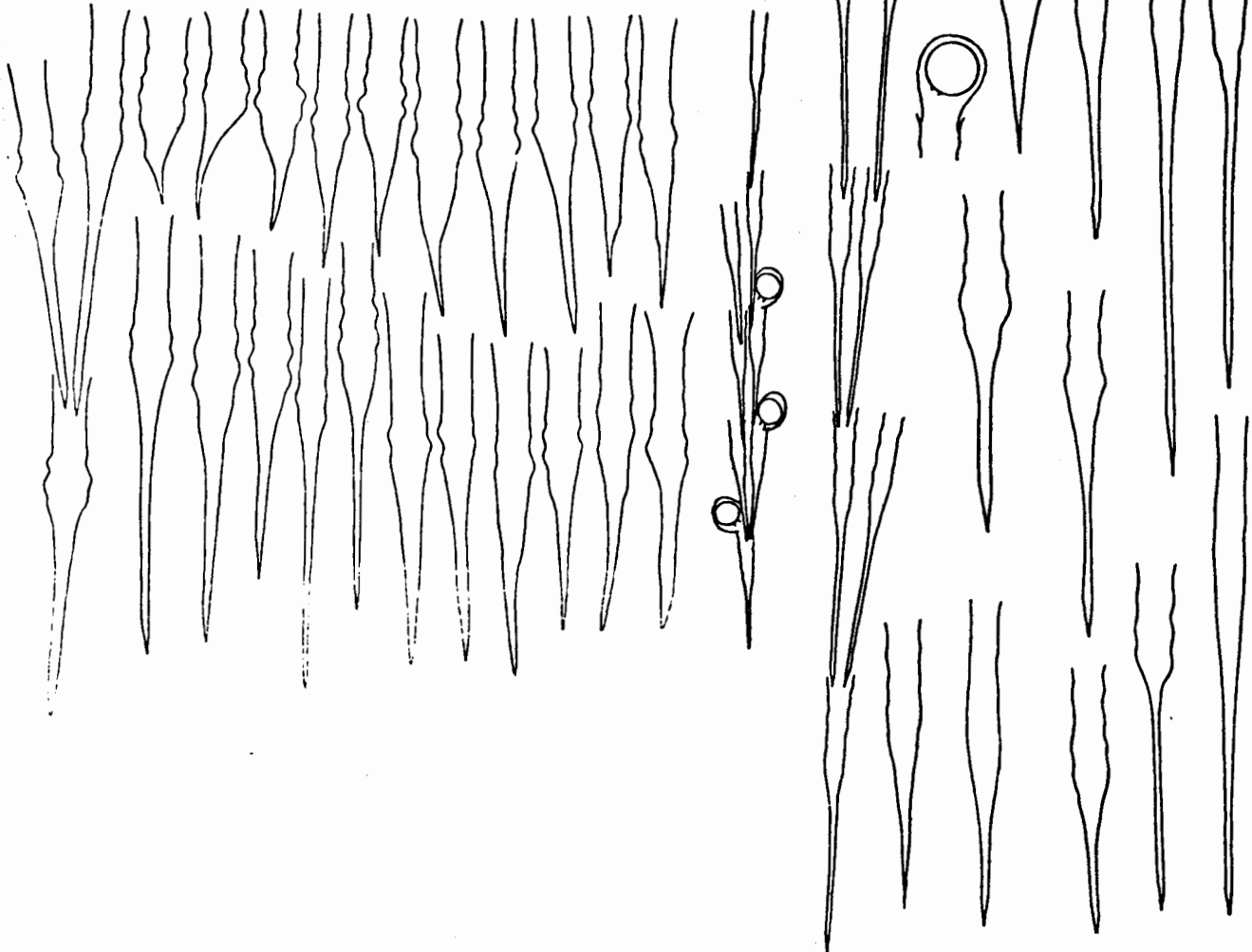
Species: *Dinobryon bavariacum* Imhof

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXII.

Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.

Location: Experimental Lakes Area (all year)
Southern Indian Lake (spring, summer, fall)
Clear Lake (spring, summer, fall)
Henning Lake
Yellowknife area
Lake Winnipeg
Char Lake

Size: Lorica - length 50-120 μ
- width 6-10 μ
Cysts - length 11 μ

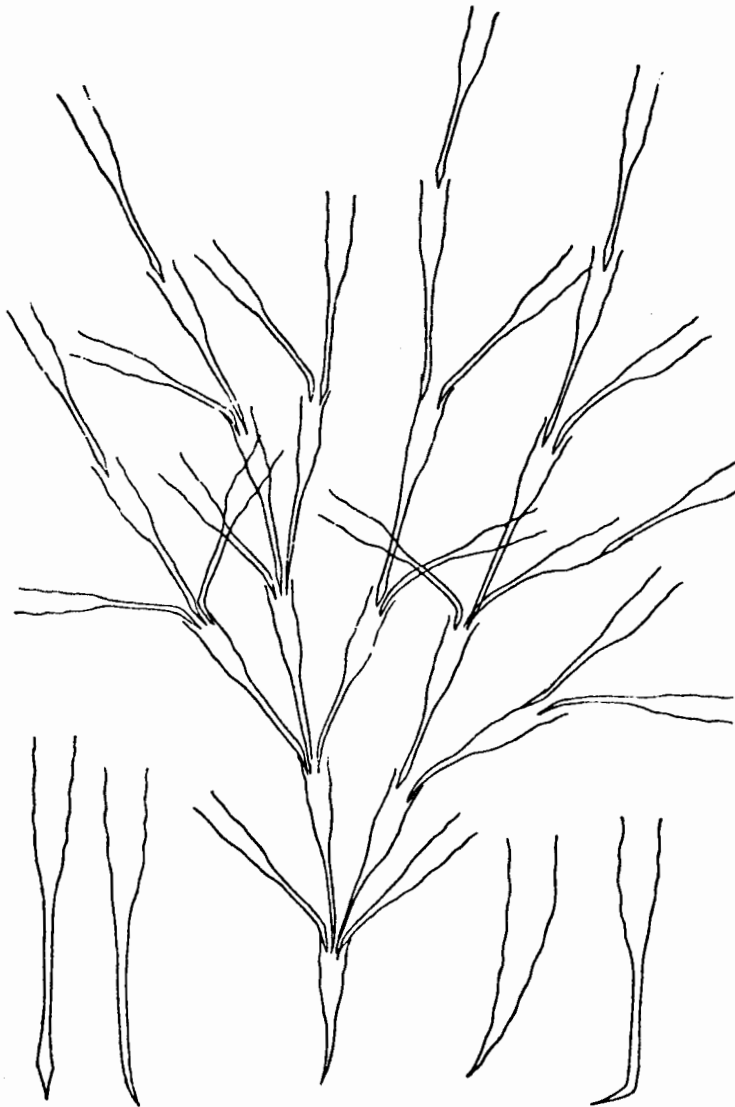


Species: *Dinobryon bavaricum* var. *Vanhoeffenii* (Bachmann)
Kreiger

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXIII.

Location: Experimental Lakes Area (spring, summer)
Lake Winnipeg
Saqvaqjuac

Size: Lorica - length 50-80 μ
- width 8-10 μ



- Species: *Dinobryon Borgei* Lemmermann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Page 214.
- Ahlstrom, E. H. 1937. Studies on Variability in the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc. Soc. 56: 139-159.
- Matblehko, O. M. 1965. Vznachnik prisnovodnikh vodorostei Ukrain R.S.R. 3 Chatiya 1: Zolotisti vodorosti-Chrysophyta. Page 258.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake
Yellowknife area
Lake Winnipeg
Saqqvaqujac
- Size: Lorica - length 17-21 μ
- width 3-5 μ

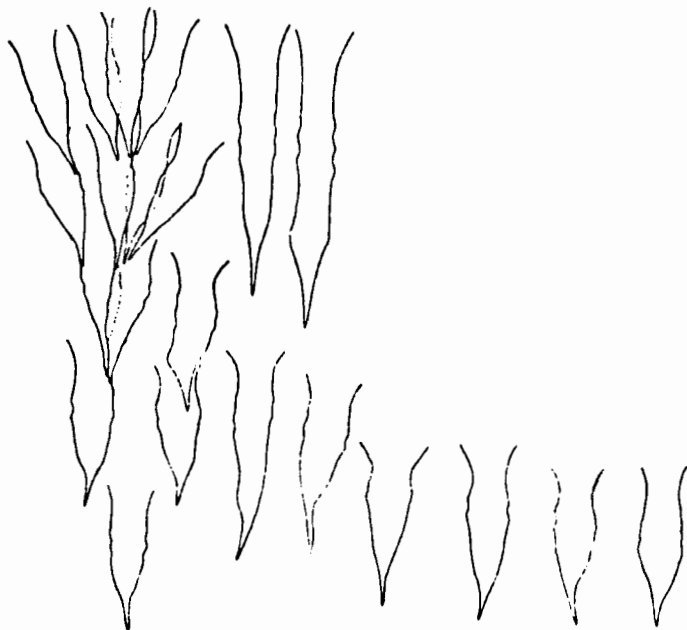


Species: *Dinobryon campanulostipitum* Ahlstrom

Key: Ahlstrom, E. H. 1937. Studies in the Variability of the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc. Soc. 56: 139-159.

Location: Experimental Lakes Area (summer, fall)

Size: Lorica - length 25-54 μ
- opening 10-11.5 μ



Species: *Dinobryon orenulatum* W. and G. S. West

Key: Fritsch Collection of Algae. Freshwater Biological Association.
Asmund, B. 1955 Occurrence of *Dinobryon orenulatum* W. et G. S. West in Some Danish Ponds and Remarks on Its Morphology, Cyst Formation and Ecology.
Hydrobiologia 7: 75-86.

Location: Experimental Lakes Area (all year)

Size: Lorica - length (without spine) 30-50 μ
- width 8-10 μ
Spine - length 3-8 μ
Cycts - diameter 10 μ



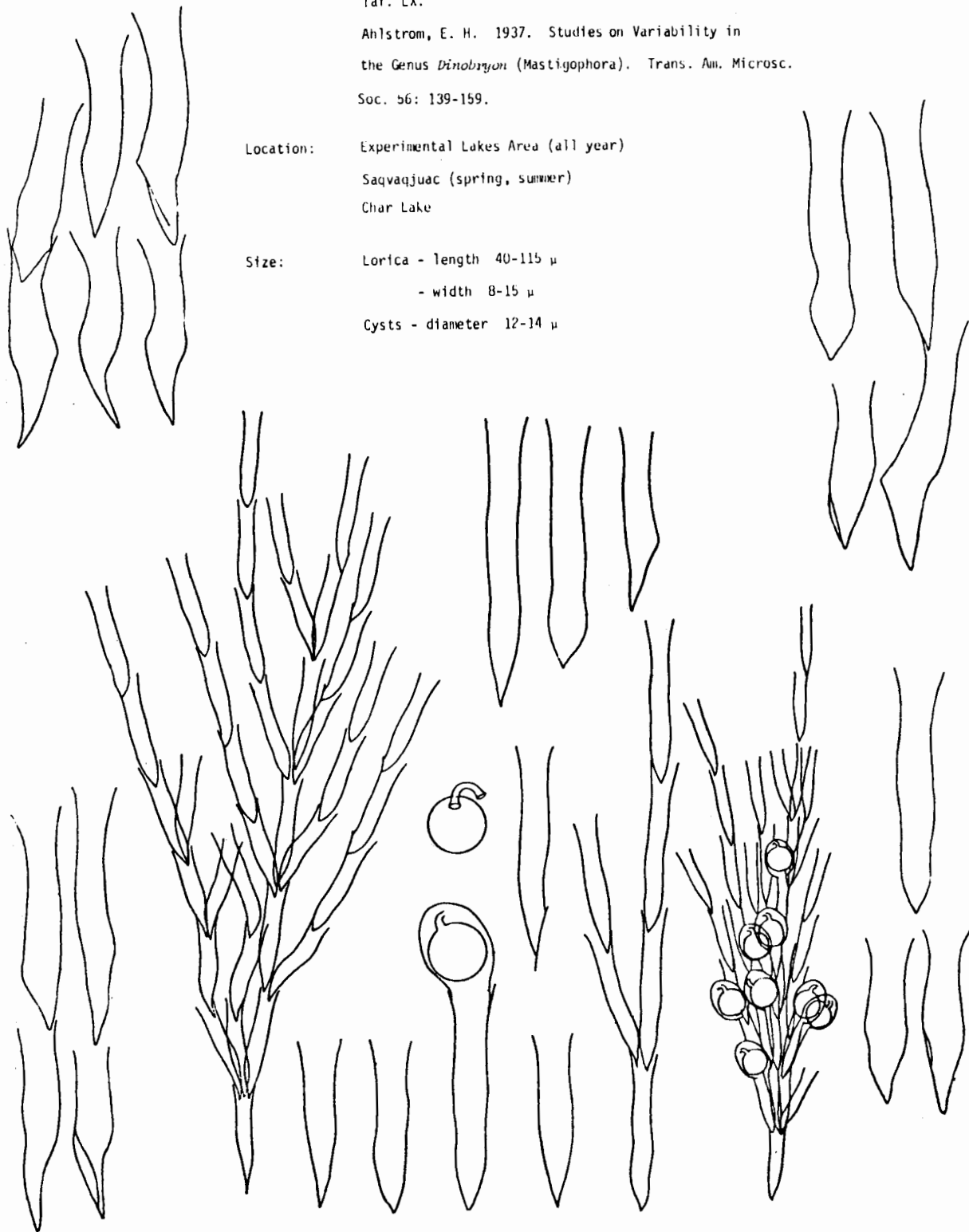
Species: *Dinobryon cylindricum* Imhof

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LX.

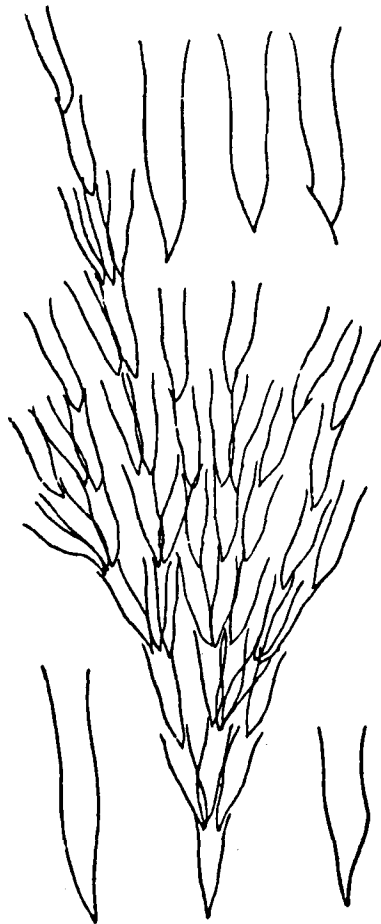
Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.

Location: Experimental Lakes Area (all year)
Saqvaquac (spring, summer)
Char Lake

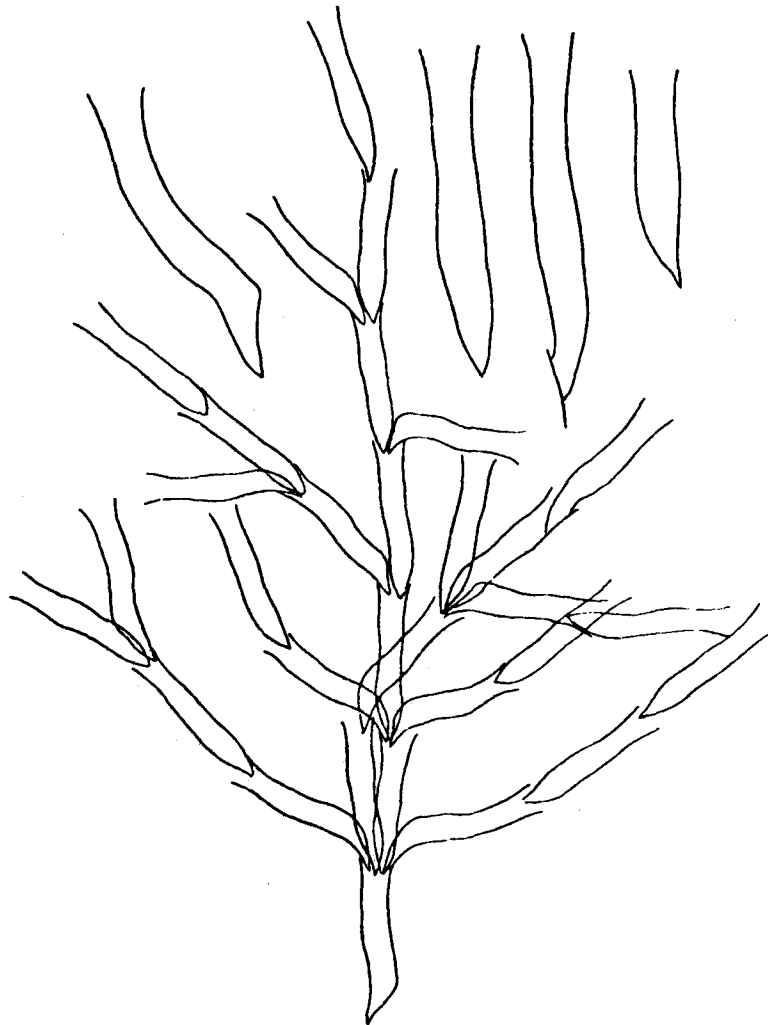
Size: Lorica - length 40-115 μ
- width 8-15 μ
Cysts - diameter 12-14 μ



- Species: *Dinobryon cylindricum* var. *alpinum* (Inhof) Backmann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. LXI.
- Location: Experimental Lakes Area (winter, spring, summer)
Saqvaqjuac
Char Lake
- Size: Lorica - length 40-65 μ
- width 10-12 μ
- Note: The major species of *Dinobryon* in Lake 227, ELA.



- Species: *Dinobryon cylindricum* var. *palutre* Lemmermann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXI.
- Location: Experimental Lakes Area (all year)
Saqvaqjuac (summer)
Lake Winnipeg
- Size: Lorica - length 80 μ
- width 7-14 μ



Species: *Dinobryon divergens* Imhof

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band. XVI. Teil 2:1.
Taf. LXVI.

Ahlstrom, E. H. 1937. Studies on Variability in the
Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.

Location: Experimental Lakes Area (all year)

Southern Indian Lake (summer)

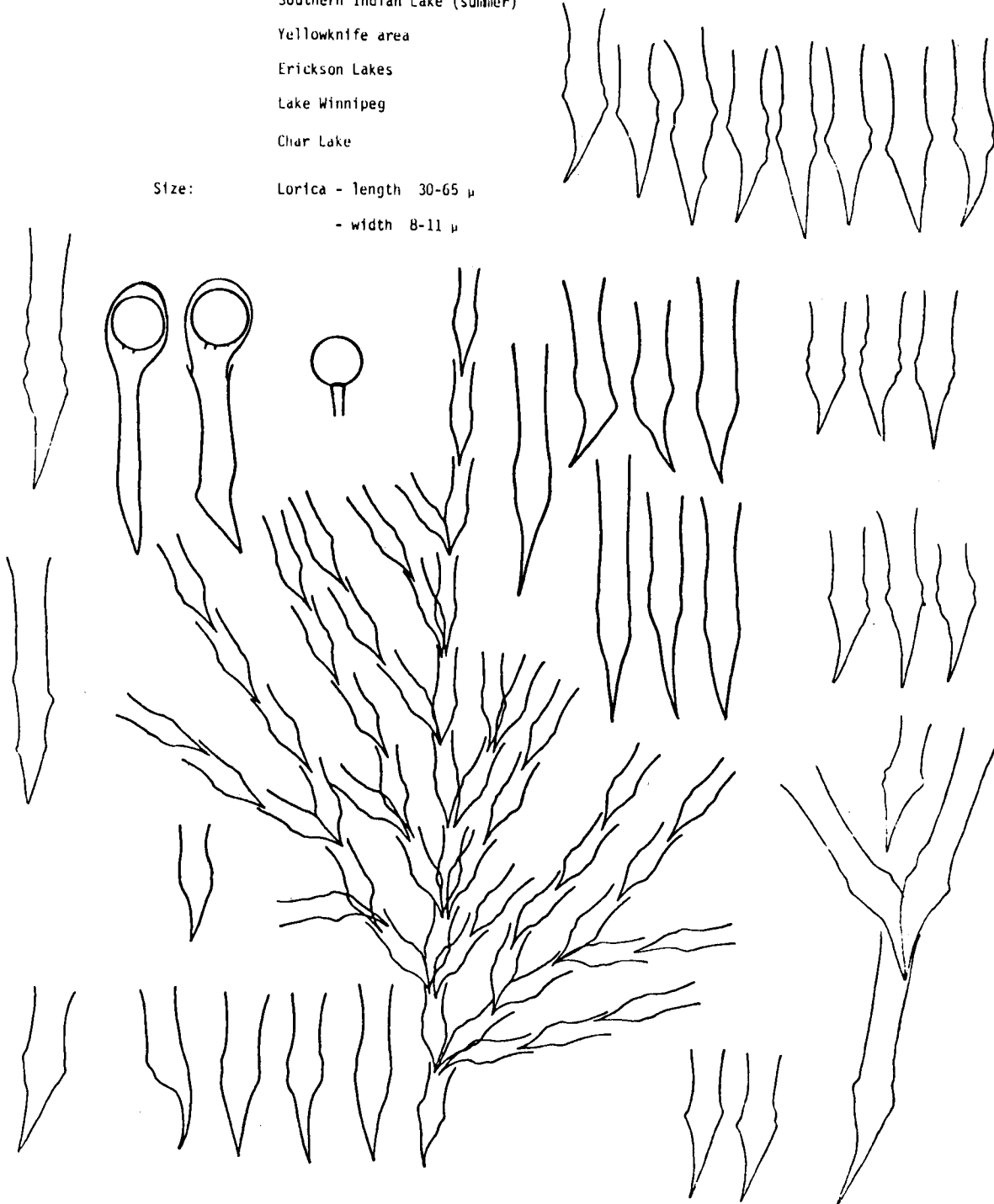
Yellowknife area

Erickson Lakes

Lake Winnipeg

Char Lake

Size: Lorica - length 30-65 μ
- width 8-11 μ

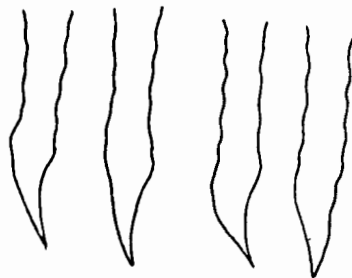
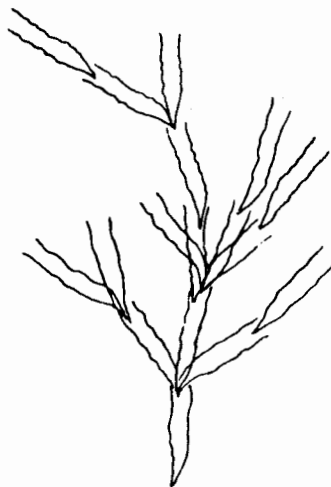


Species: *Dinobryon divergens* var. *Schauinslandii* (Lennermann)
Brunnthaler

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXVII.

Location: Experimental Lakes Area (summer, fall, winter)
Saqqajuac

Size: Lorica - length 35-65 μ
- width 8-9 μ
Cysts - diameter 11-14 μ

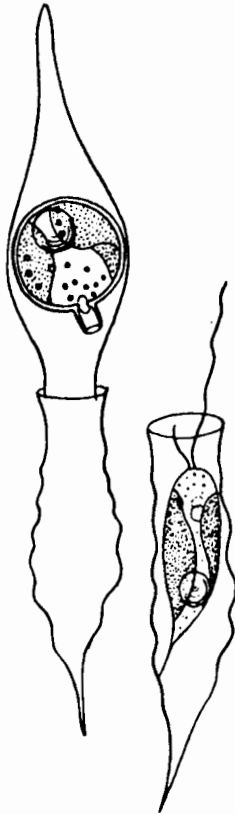


Species: *Dinobryon elegantissimum* Bourrelly

Key: Bourrelly, P. 1968. Les Algues d'eau douce. Tome II.
Les Algues jaunes et brunes. Bouée et Cie. Paris. Plate
16.

Location: Experimental Lakes Area (spring, summer, fall)

Size: Lorica - length 30 - 35 μ
- width 8 - 10 μ
Cell - length 15 - 20 μ
- width 4 - 6 μ



Species: *Dinobryon pediforme* (Lennermann) Steinecke

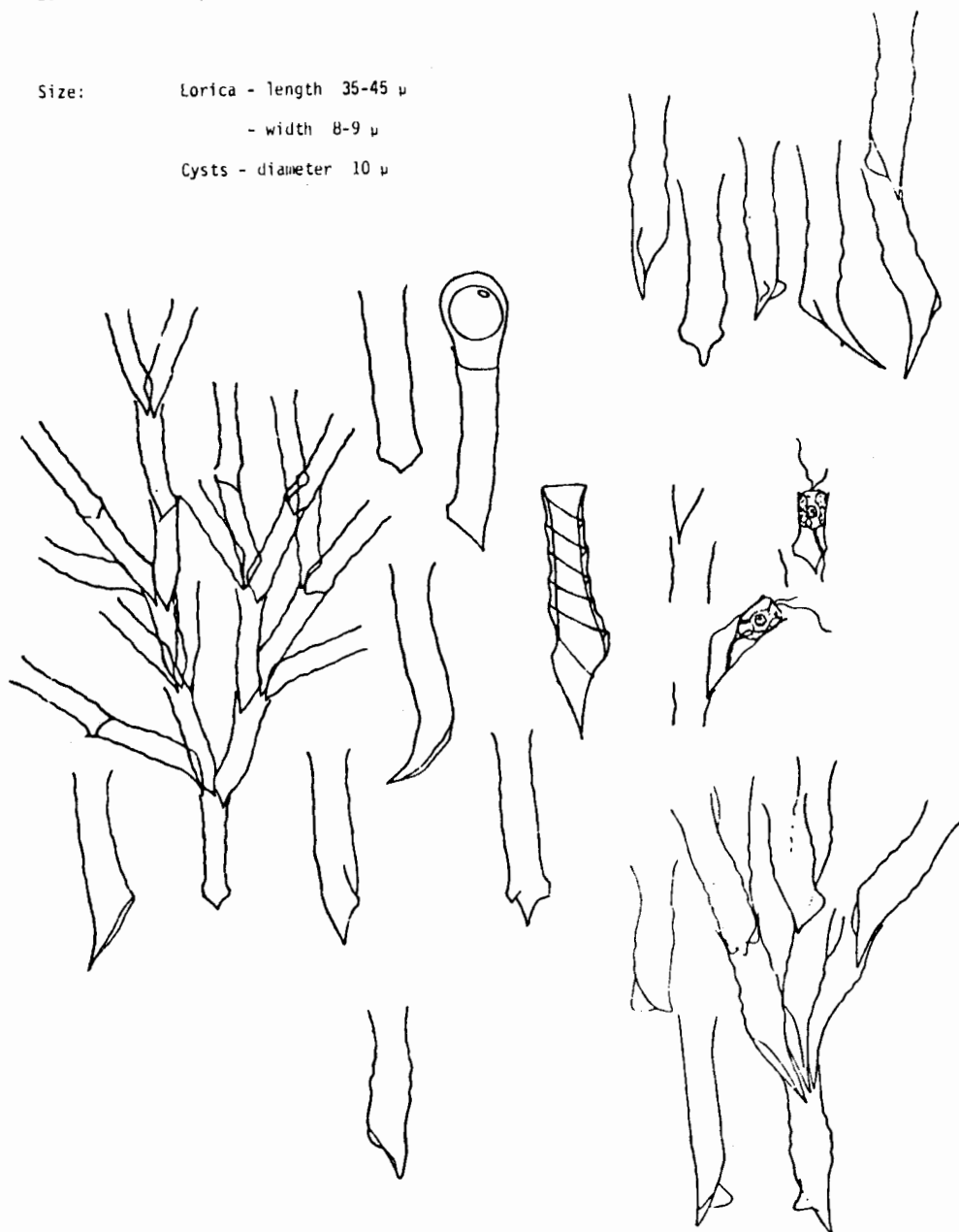
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXV.

Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.

Skuja, H. 1964. Grundzüge der Algenflora und
Algenvegetation der Fjeldgegenden um Abisko in
Schwedisch-Lappland. Nova Acta Regiae Soc. Sci.
Ups. Ser. IV. Vol. 18. No. 3. Taf. LXIII.

Location: Experimental Lakes Area (spring, summer)

Size: Lorica - length 35-45 μ
- width 8-9 μ
Cysts - diameter 10 μ

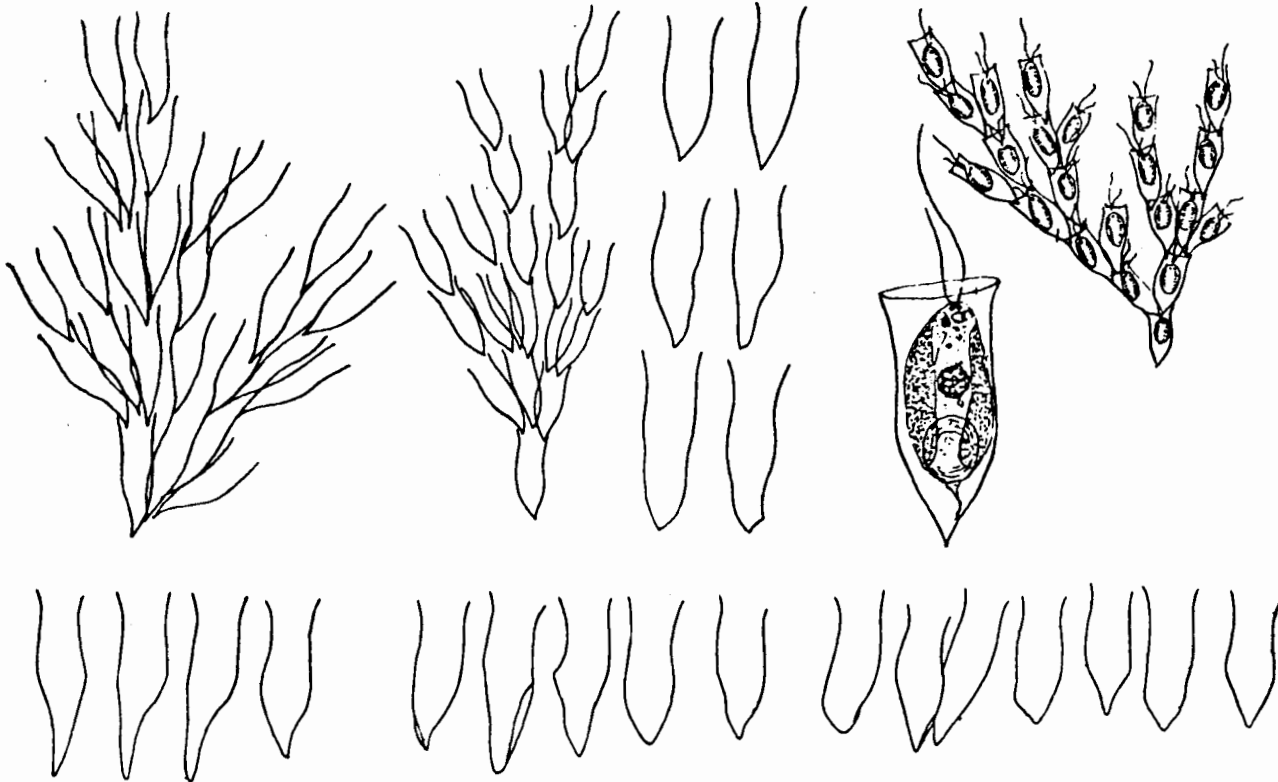
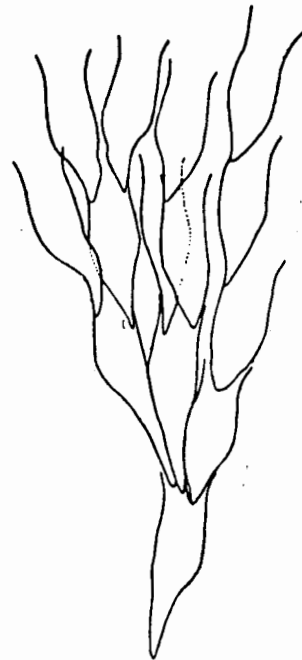


Species: *Dinobryon sertularia* Ehrenberg

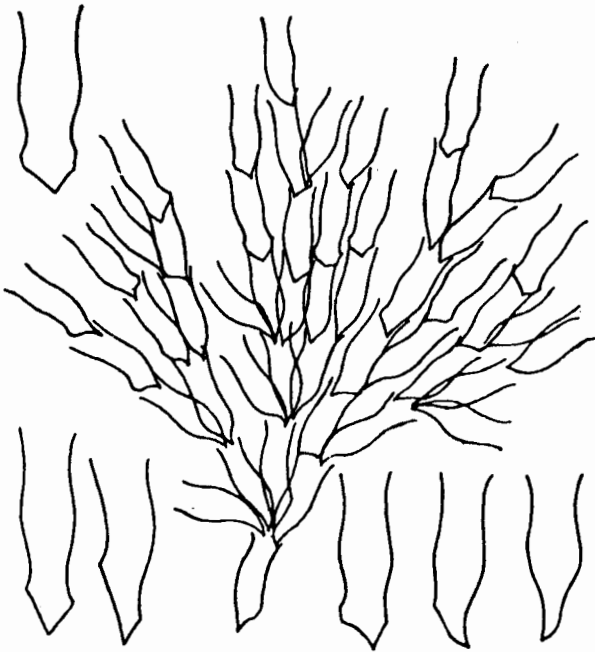
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LIX.
Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.
Skuja, H. 1964. Grundzüge der Algenflora und Algen-
vegetation Fjeldgegenden um Abisko in Schwedisch-
Lappland. Nova Acta Regiae Soc. Sci. Ups. Ser. IV.
Vol. 18. No. 3. Taf. LXIII.

Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake
Yellowknife Area
Erickson Lakes
Lake Winnipeg

Size: Lorica - length 30-40 μ
- width 10-14 μ
Cysts - diameter 10-16 μ



- Species: *Dinobryon sertularia* var. *protuberans* (Lemmermann)
Krieger
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LIX.
Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.
- Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake
Lake Winnipeg
- Size: Lorica - length 30-40 μ
- width 7-12 μ



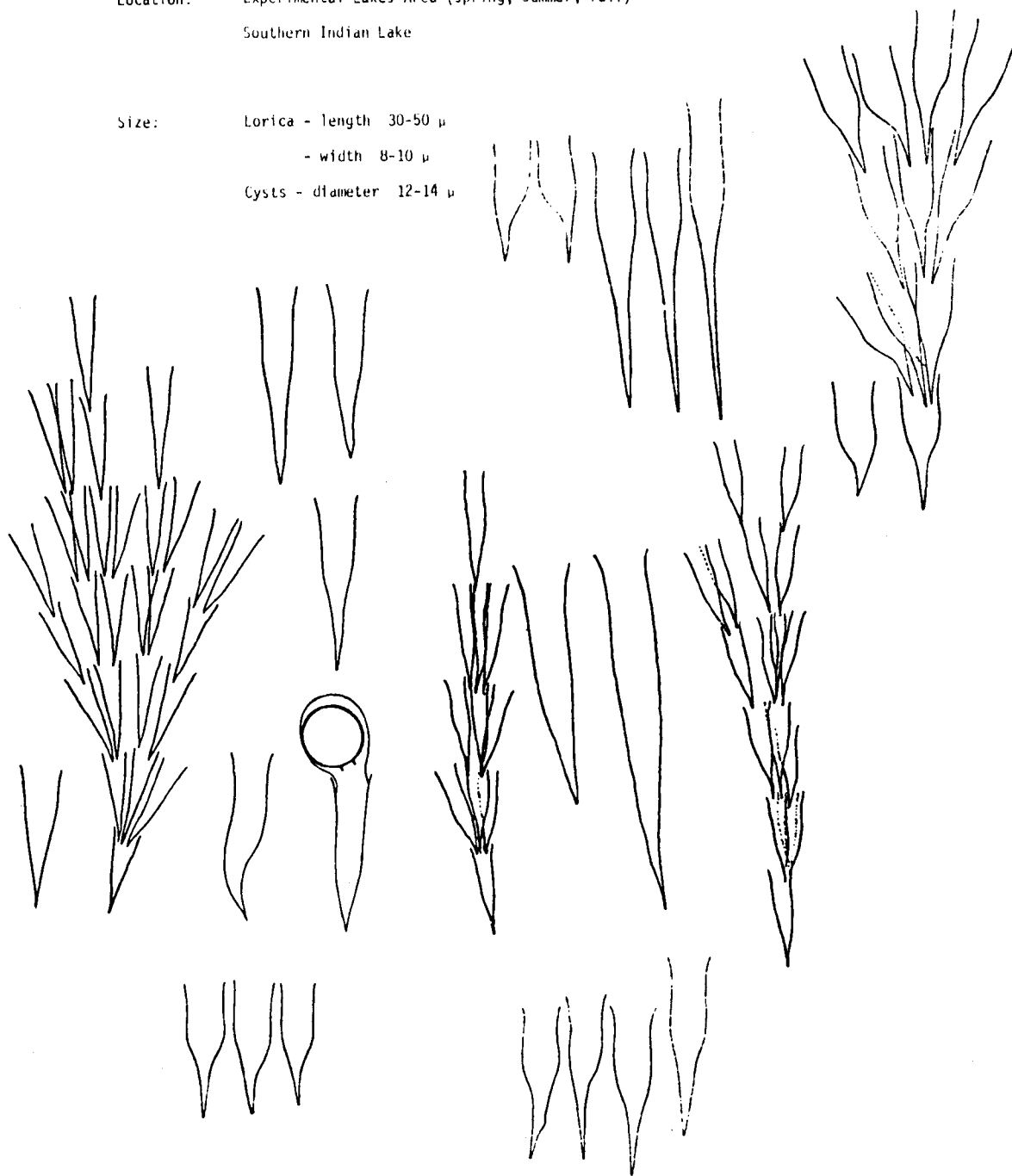
Species: *Dinobryon sociale* Ehrenberg

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXIV.

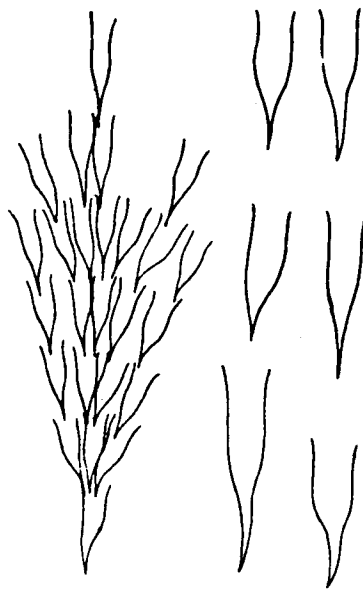
Ahlstrom, E. H. 1937. Studies on Variability in the
Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.

Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake

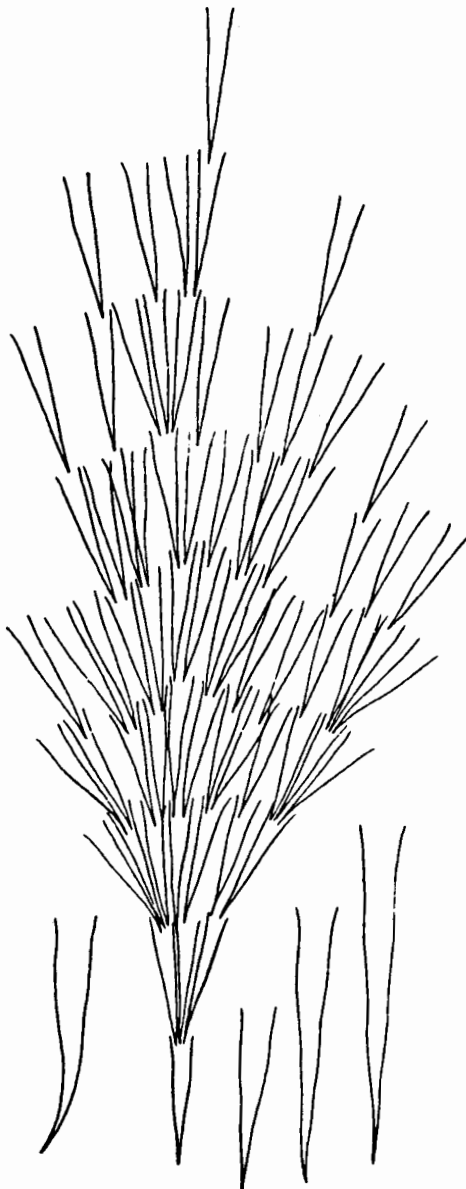
Size: Lorica - length 30-50 μ
- width 8-10 μ
Cysts - diameter 12-14 μ



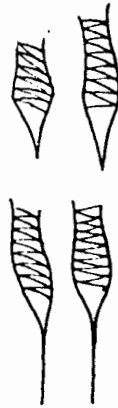
- Species: *Dinobryon sociale* var. *americanum* (Brunthaler)
Backmann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXV.
Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastogophora). Trans. Am. Microsc.
Soc. 56: 139-159.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake
Char Lake
- Size: Lorica - length 25-40 μ
- width 8-10 μ



- Species: *Dinobryon sociale* var. *stipitatum* (Stein) Lemmermann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXIV.
Ahlstrom, E. H. 1937. Studies on Variability in
the Genus *Dinobryon* (Mastigophora). Trans. Am. Microsc.
Soc. 56: 139-159.
- Location: Experimental Lakes Area (spring, summer)
Southern Indian Lake
Char Lake
- Size: Lorica - length 35-70 μ
- width 7-9 μ



- Species: *Dinobryon suecicum* Lemmermann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Page 216.
Fott, B. 1971. Algenkunde. Fischer. Jena.
- Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake
- Size: Lorica - length 19-22 μ
- width 4-5 μ



Species: *Dinobryon suecicum* var. *longispinum* Lemmermann

Key: Matbienko, O. M. 1965. Vznachnik prsnovodnikh
Vodorostei Ukraini K.S.R. '3 Chastiya 1:
Zolotisti vodorosti-Chrysophyta. Page 261.

Location: Experimental Lakes Area (spring, summer)

Size: Lorica - length 20-25 μ
- width 4-7 μ
Caudal spine - length 10-15 μ
Zygote - diameter 7-7.5 μ



- Species: *Chrysoïkon Skujai* (Nauwerck) Willen
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.
- Location: Experimental Lakes Area (all year)
Saqvaqjuac
Southern Indian Lake
Lake Winnipeg
Char Lake
- Size: Lorica - length 7-11 μ
- width 4-6 μ
Cysts - diameter 5-7 μ



Species: *Chrysoalykos planotonicus* Mach

Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.

Location: Experimental Lakes Area (spring, summer)
Saqvaqjuac

Size: Lorica - length 5-6 μ
- width 3-4 μ
Cell - length 3-4 μ
- width 2-2.5 μ



Species: *Oohromonas globosa* Skuja

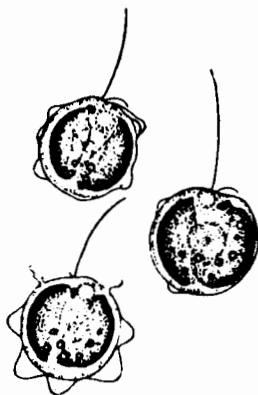
Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.

Location: Experimental Lakes Area (winter, spring)
Saqvaqjuac
Erickson Lakes
Southern Indian Lake

Size: Cell - diameter 6-11 μ



- Species: *Oohromonas sparsuerruoooa* var. *septentrionalis* Skuja
- Key: Fritsch Collection of Algae. Freshwater Biological Association.
Skuja, H. 1956. Taxonomische und Biologische Studien Über das Phytoplankton Schwedischer Binnengewässer. Nova Acta Regiae. Soc. Sci. Ups. Ser. IV. Vol. 16. No. 3. Taf. XLVIII.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - diameter 9-13 μ



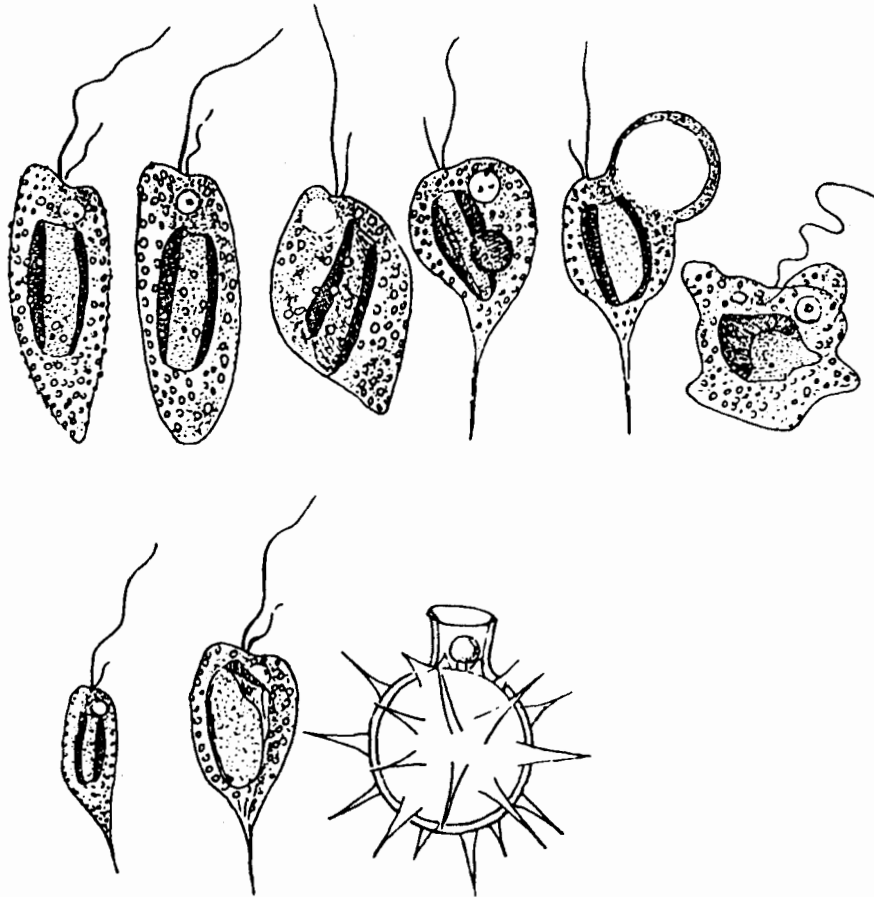
Species: *Ochromonas stellaria* Doflein

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXXVIII.

Matbiehko, O. M. 1965. Vznachnik prisnovodnikh
Vodorostei Ukrain R.S.R. 3 Chastiya 1: Zolotisti
vodorosti-Chrysophyta. Page 221.

Location: Experimental Lakes Area (summer)
Saqvaqujac

Size: Cell - length 10-15 μ
- width 5-7 μ



Species: *Oshromonas valleviaca* Chodat

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXXVII.

Location: Erickson Lakes

Size: Cell - length 9-10 μ
- width 6 μ



Species: *Ochromonas verrucosa* Skuja

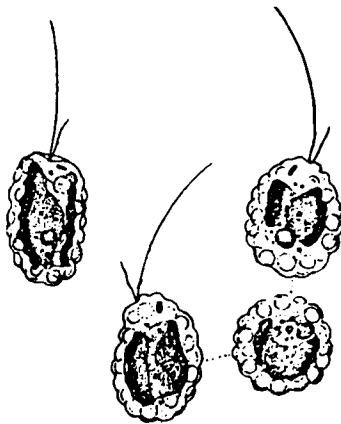
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. XLI.

Skuja, H. 1964. Grundzüge der Algenflora und Algenvegetation der Fjeldgegenden um Abisko in Swedisch - Lappland. Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 18. No. 3. Taf. VXIII.

Matbichko, O. M. 1965. Vznachnik prsnovodnikh Vodorostei Ukraini R.S.R. 3 Chastiya 1: Zolotisti vodorosti-Chrysophyta. Page 213.

Location: Experimental Lakes Area (summer)
Erickson Lakes

Size: Cell - length 19-27 μ
- width 12-18 μ

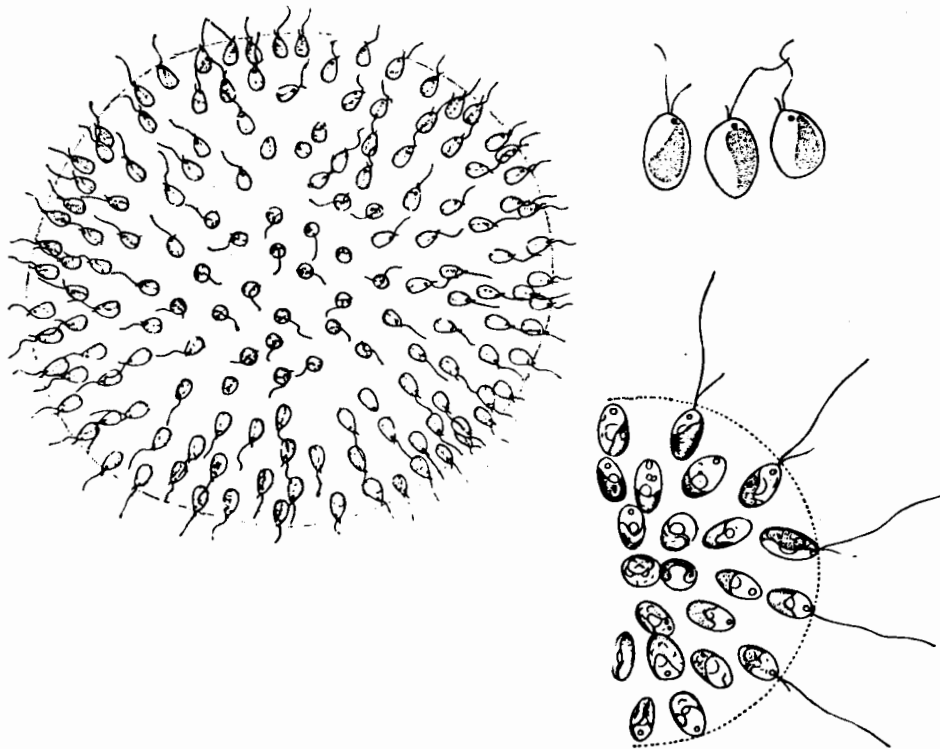


Species: *Uroglana americana* Catkins

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XLIX.
Fott, B. 1971. Algenkunde. Fischer. Jena.

Location: Experimental Lakes Area (all year)
Erickson Lakes (summer)
Saqvaqujac
Southern Indian Lake
Yellowknife area (summer, fall)
Lake Winnipeg

Size: Cell - length 5-12 μ
- width 3-7 μ
Colony 150-300 cells

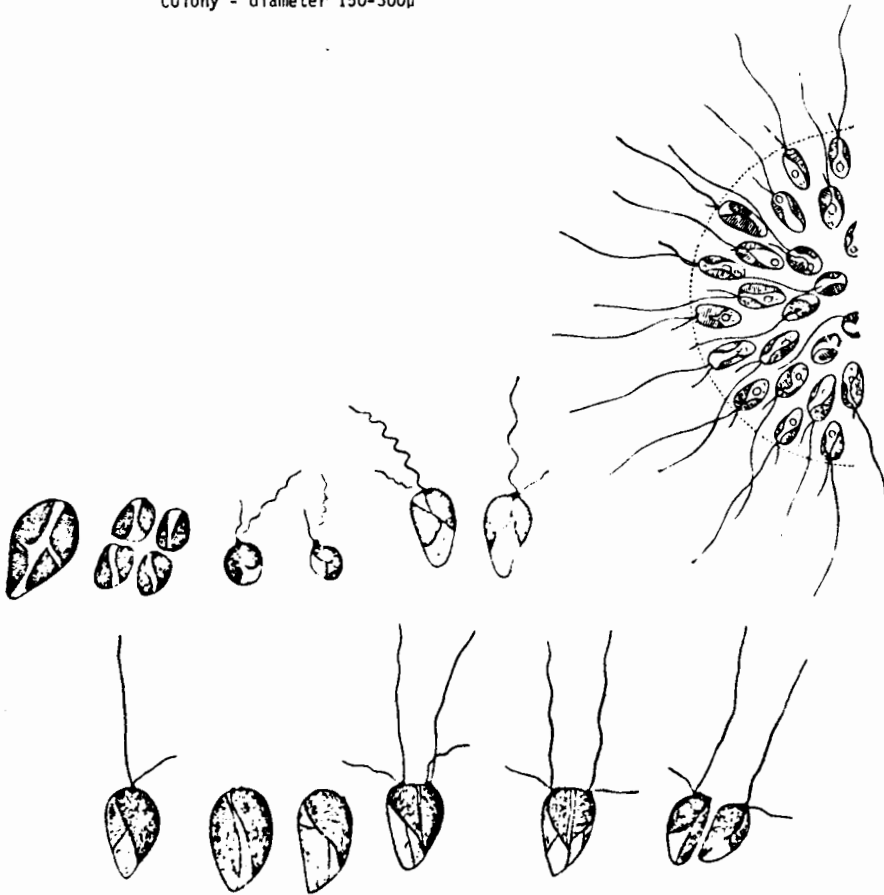


Species: *Uroglena europaea* (Pascher) Conrad

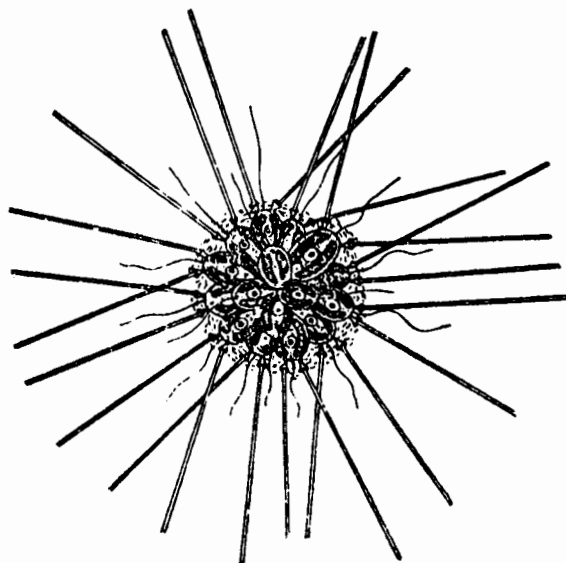
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XLVI.

Location: Saqvaqujac

Size: Cell - width 7μ
Colony - diameter $150-300\mu$



- Species: *Chrysoephaerella longispina* Lauterborn
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XXXIII.
Fott, B. 1971. Algenkunde. Fischer. Jena.
- Location: Experimental Lakes Area (spring, summer, fall)
Saqvaqujac
Southern Indian Lake
Lake Winnipeg
- Size: Cell - length 12-15 μ
- width 8-9 μ
Colony - diameter 250 μ

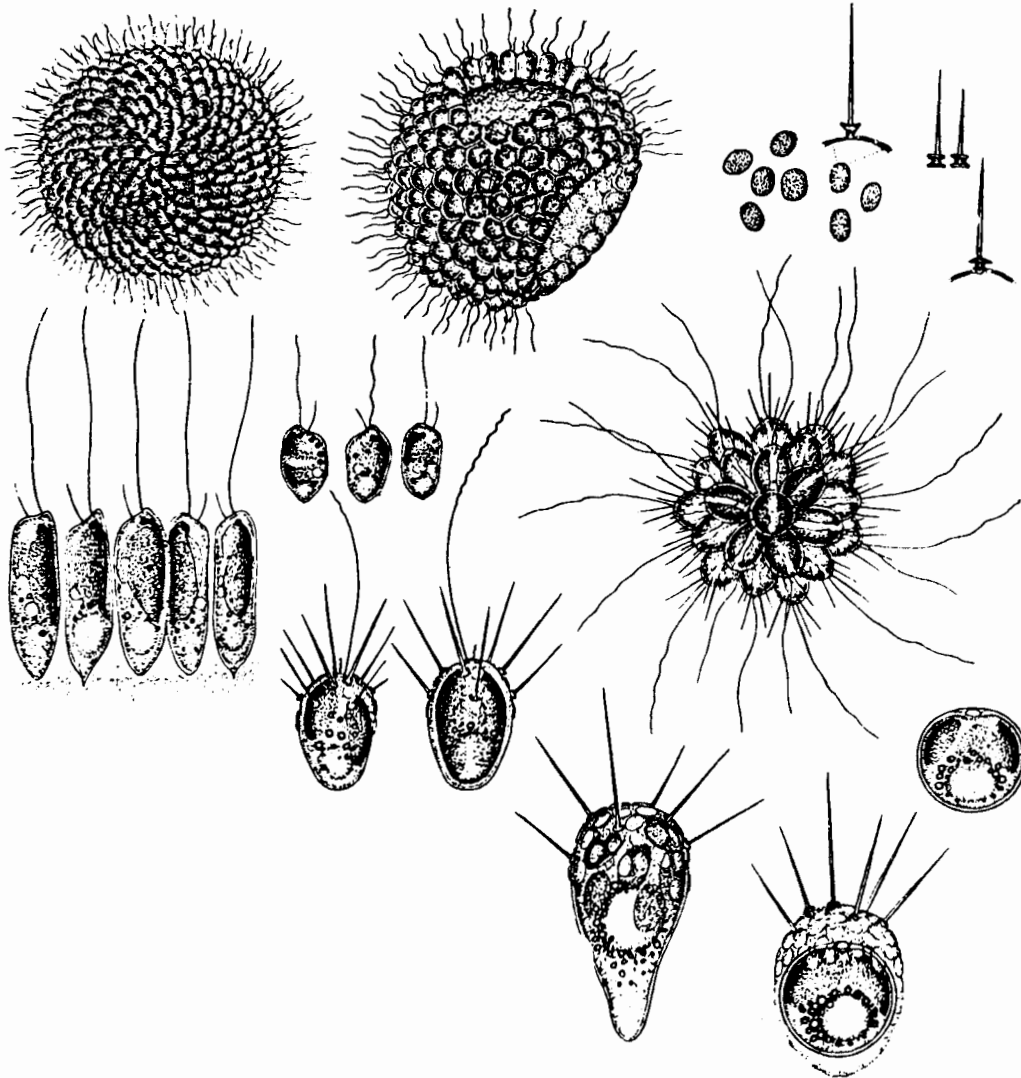


Species: *Chrysosphaerella Rodheii* Skuja

Key: Skuja, H. 1948. Taxonomie des Phytoplanktons einiger Seen in Uppland, Schweden. Symb. Bot. Upsal. 9: 399 p.
 Matbienko, O. M. 1965. Vznachnik prsnovodnikh Vodoroetei Ukrain R.S.R. 3 Chastiya 1: Zolotisti vodorosti-Chrysophyta. Page 303.

Location: Experimental Lakes Area (spring)
 Saqvaqujac

Size: Cells - length 12-19 μ
 - width 7-12 μ
 Colony 4-32 cells
 Cysts - diameter 13-15 μ

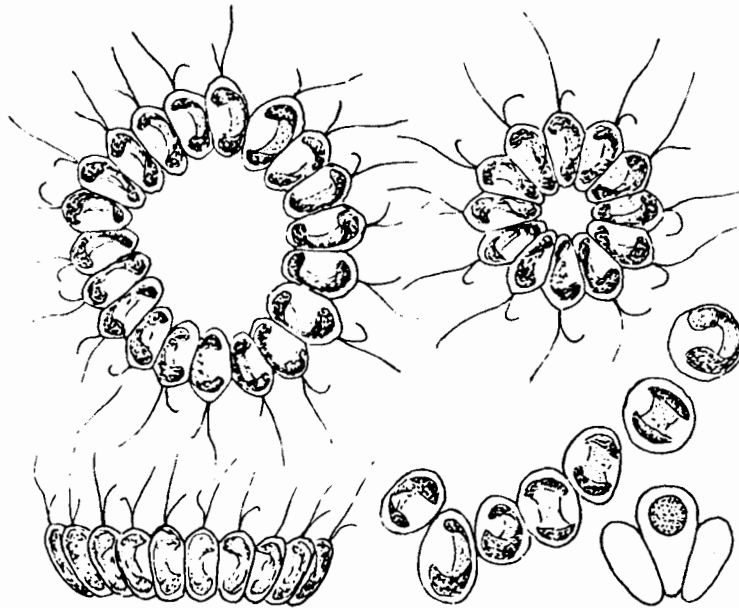
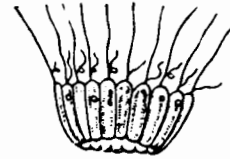
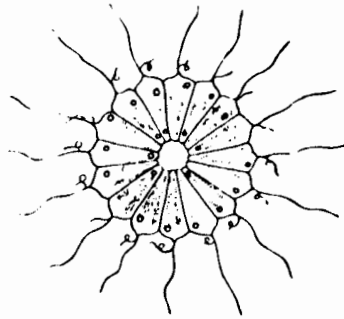


Species: *Cycloneuxia annularis* Stokes

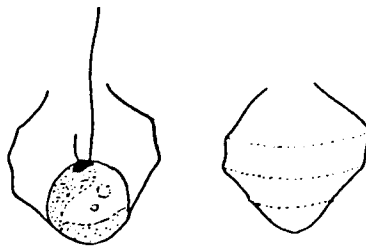
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. .Band XVI. Teil 2:1.
Taf. LIV.

Location: Saqvaqjuac

Size: Cell - diameter 11-14 μ
Colony - diameter 30-68 μ



- Species: *Pseudokephyrion alaskanum* Hilliard
- Key: Hilliard, D. K. 1966. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. V. Notes on the Taxonomy and Occurrence of Phytoplankton in an Alaskan Pond. *Hydrobiologia* 28: 553-576.
- Location: Experimental Lakes Area (spring, summer, fall)
Saqvaqujac (summer)
- Size: Lorica - length 11-13 μ
- width 11-13 μ
Protoplast - diameter 3-5 μ

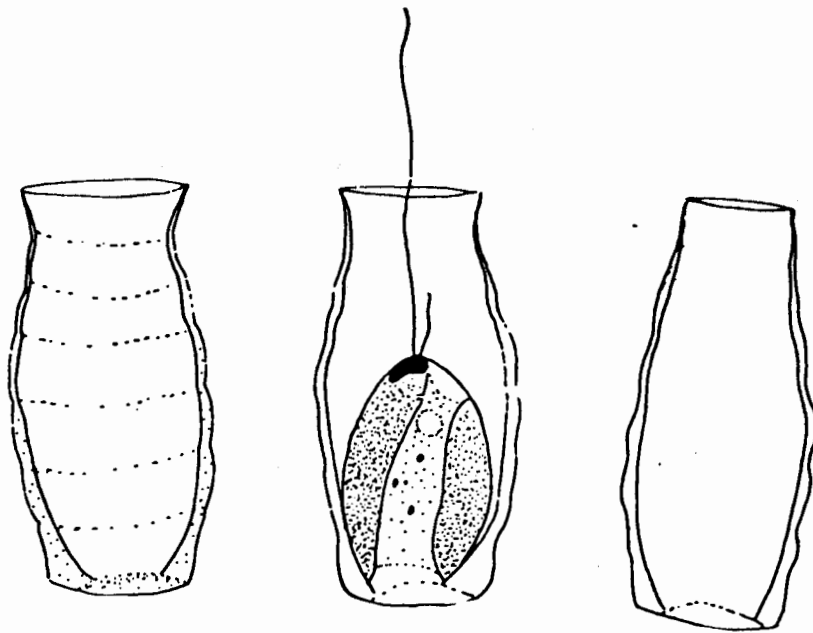


Species: *Pseudokephyrion angulosum* Hilliard

Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. Nova Hedwigia 14: 40-56.

Location: Experimental Lakes Area (spring, summer, fall)

Size: Lorica - length 16.7-20 μ
- width 8-10 μ
Opening 6.2-7 μ
Protoplast - length 6.5-8 μ
- width 5.5-7 μ

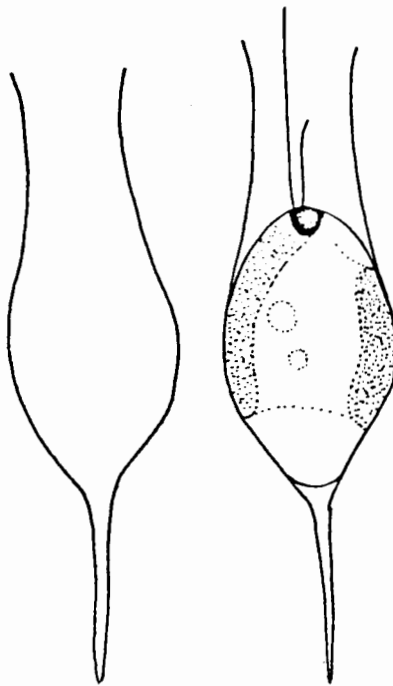


Species: *Pseudokephyrion attenuatum* Hilliard

Key: Hilliard, D. K. 1966. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. V. Notes on the Taxonomy and Occurrence of Phytoplankton in Alaskan Ponds. *Hydrobiologia* 28: 553-576.

Location: Experimental Lakes Area (all year)
Saqaqjuac (summer)

Size: Lorica - length 46.5-53 μ
- width 11-13 μ
Protoplast - length 14-22 μ
- width 9.5-12.5 μ



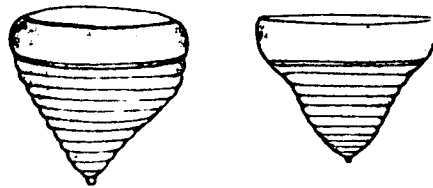
Species: *Pseudokephyrion oonionum* (Schiller) Schmidle

Key: Fritsch Collection of Algae. Freshwater Biological Association.

Bourrelly, P. 1957. Recherches sur les Chrysophycées . . . Rev. Algol. Memoire Hors-Serie, No. 1. Thesis prés . a. La Fac. D. Sci. Univ. Paris, Sér A, No. 2704. Page 261.

Location: Erickson Lakes (spring, fall)

Size: Lorica - length 10-12 μ
- width 10-12 μ



- Species: *Pseudokephyrion cylindricum* Bourrelly
- Key: Fritsch Collection of Algae. Freshwater Biological Association.
Bourrelly, P. 1966. Les Algues d'eau douce. Tome 1
Les Algues Vertes. Boubee et Cie, Paris. Page 95.
- Location: Erickson Lakes
- Size: Lorica - length 6-7.5 μ
- width 6.5 μ
- opening 2.7-3 μ
- Note: Colour of lorica brown
Parietal protoplast yellow a stigma
Two unequal flagella
Two contractile vacuoles
Identical to *Kephyrion cylindricum* (Lach.) Conrad.
Bourrelly, 1957 in French



Species: *Pseudokephyrion ellipsoideaum* (Pascher) Schmidle

Key: Matbiefko, O. M. 1965. Vznachnik prsnovodnikh vodorostei
Ukrains R. S. R. 3 Chastiya 1: Zolotisti vodorosti - Chrysophyta.
Page 279.

Location: Erickson Lakes

Size: Lorica - length 11μ
- width $4 - 8\mu$

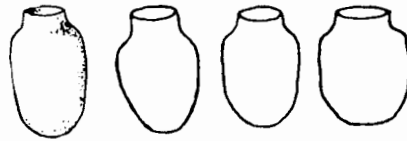


Species: *Pseudokephyrion Entzii* Conrad

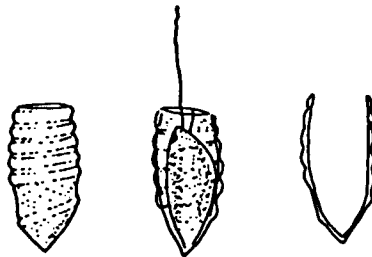
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf LVI.

Location: Experimental Lakes Area (spring, summer, fall)
Char Lake

Size: Lorica - length 7-8.5 μ
- width 4.5-6 μ
- opening 3.4-4 μ



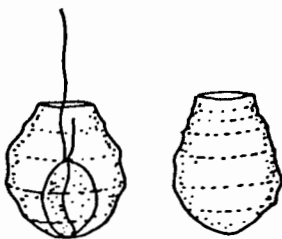
- Species: *Pseudokephyrion hiemale* Hilliard
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae in Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. *Nova Hedwigia* 14: 40-56.
- Location: Experimental Lakes Area (winter, summer)
Saqvaqjuac
- Size: Lorica - length 6.2-7 μ
- width 3-3.5 μ
Opening 1.8-2.2 μ
Protoplast - length 4.7-5 μ
- width 2.8-3.4 μ



- Species: *Pseudokephyrion minutissimum* Conrad
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LVI.
- Matvienko, O. M. 1965. Vznachnik prsnovodnikh
Vodorostei Ukrain R.S.R. 3 Chastiya 1: Zolotisti
vodorosti-Chrysophyta. Page 278.
- Location: Experimental Lakes Area (spring, summer, fall)
- Size: Lorica - length 3-4 μ
- width 3-4 μ



- Species: *Pseudokephyrion parvum* Hilliard
- Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. Nova Hedwigia 14: 40-56.
- Location: Experimental Lakes Area (winter, spring, summer)
Saqqajuac
- Size: Lorica - length 5.3-5.7 μ
- width 4.5-5.7 μ
- mouth 2.3-3 μ
Protoplast - diameter 2.5-3 μ

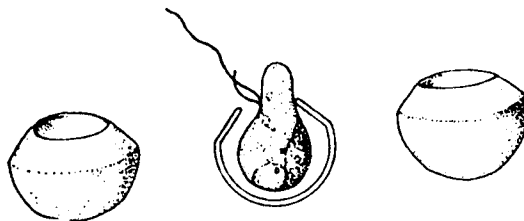


Species: *Pseudokephyrion pooulum* Conrad

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LVI.

Location: Erickson Lakes

Size: Lorica - length $7\ \mu$
- width $8-9\ \mu$
Opening $2-3\ \mu$



- Species: *Pseudokephyrion spirale* (Gerloff) Schmid
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LV.
- Location: Experimental Lakes Area (spring, summer, fall)
Erickson Lakes
Southern Indian Lake
Lake Winnipeg
- Size: Lorica - length 8-9 μ
- width 5-7 μ

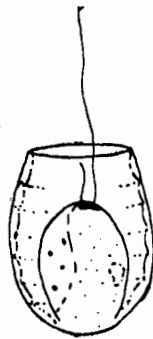


Species: *Pseudokephyrion striatum* Hilliard

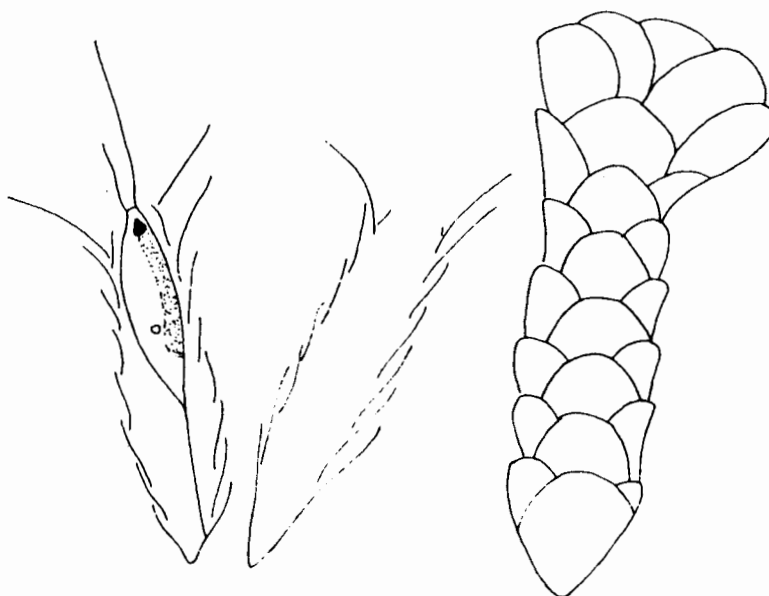
Key: Hilliard, D. K. 1967. Studies on Chrysophyceae from some ponds and lakes in Alaska. VII. Notes on the genera *Kephyrion*, *Kephyriopsis* and *Pseudokephyrion*. *Nova Hedwigia* 14: 40-56.

Location: Char Lake

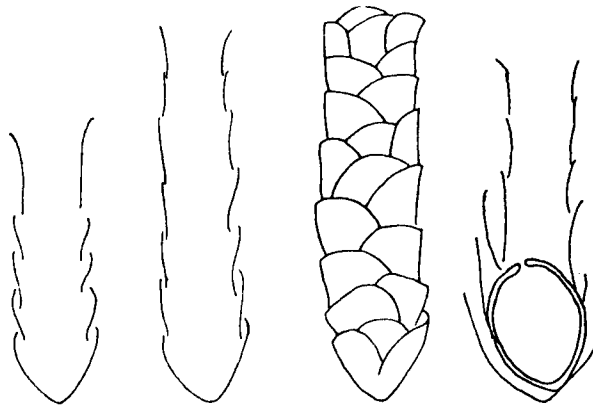
Size: Loricata - length 6.2 - 7 μ
- width 4.4 - 5.3 μ
- opening 2.5 μ
Cell - length 4.5 μ
- width 2.6 - 3.5 μ



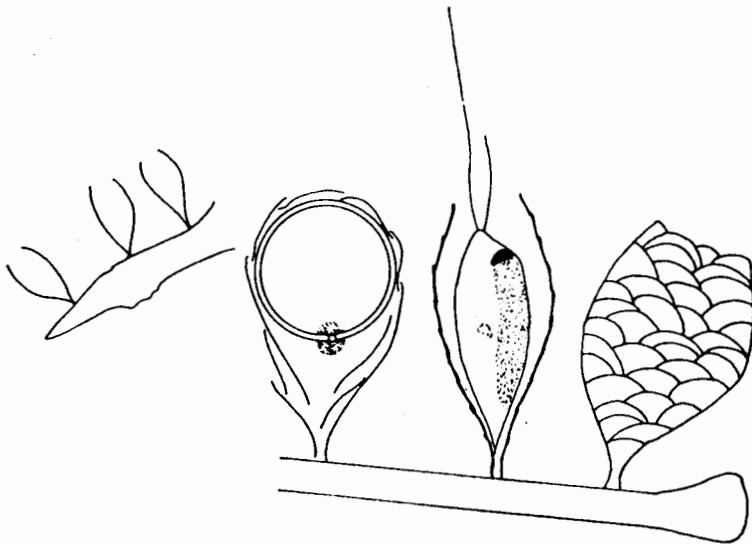
- Species: *Epiphyxis alaskana* Hilliard and Asmund
- Key: Hilliard, D. K., and B. Asmund. 1963. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. II. Notes on the genera *Dinobryon*, *Hylobryon* and *Epiphyxis* with Descriptions of New Species. *Hydrobiologia* 22: 331-397.
- Location: Experimental Lakes Area (summer, fall)
- Size: Lorica - length 26-32 μ
- width 4.6-12.4 μ
Opening - length 6.5-7 μ
- width 4.8-6 μ
Protoplast - length 12.8-19 μ
- width 3.2-5 μ



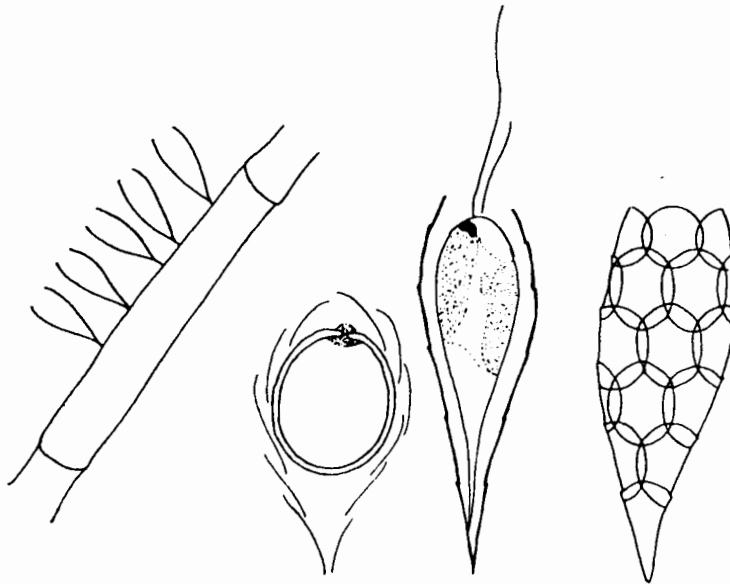
- Species: *Epiphyzia gracilis* Hilliard and Asmund
- Key: Hilliard, D. K. and B. Asmund. 1963. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. II. Notes on the genera *Dinobryon*, *Hylobryon* and *Epiphyzia* with Descriptions of New Species. *Hydrobiologia* 22: 331-397.
- Location: Experimental Lakes Area (summer, fall)
- Size: Lorica - length 18-35 μ
- width 4-6 μ
- opening 2.5-6 μ



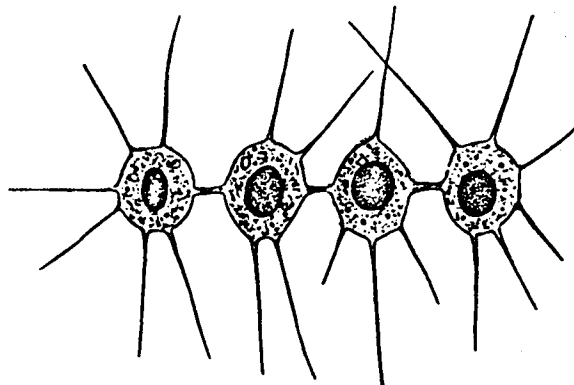
- Species: *Epiphyxis tabellariae* (Lemmermann) G. M. Smith
- Key: Hilliard, D. K., and B. Asmund. 1963. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. II. Notes on the genera *Dinobryon*, *Hylobryon* and *Epiphyxis* with Descriptions of New Species. *Hydrobiologia* 22: 331-397.
- Location: Experimental Lakes Area (all year)
Erickson Lakes
Clear Lake (Riding Mountain National Park)
Southern Indian Lake
Yellowknife area
- Size: Lorica - length 19-27.5 μ
- width 7-8 μ
- opening 4-6 μ



- Species: *Epiphyxis utriculus* var. *acuta* (Schiller) Hilliard
- Key: Hilliard, D. K., and B. Asmund. 1963. Studies on Chrysophyceae from Some Ponds and Lakes in Alaska. II. Notes on the genera *Dinobryon*, *Hyalobryon* and *Epiphyxis* with Descriptions of New Species. *Hydrobiologia* 22: 331-397.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake (summer)
- Size: Lorica - length 19-22 μ
- width 7-8 μ
- opening 4-4.8 μ
- Notes: *E. utriculus* is generally found in the plankton to be epiphytic on *Dinobryon divergens*.



- Species: *Chrysidiastrum catenatum* Lauterborn
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXIV.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - diameter 12-14 μ

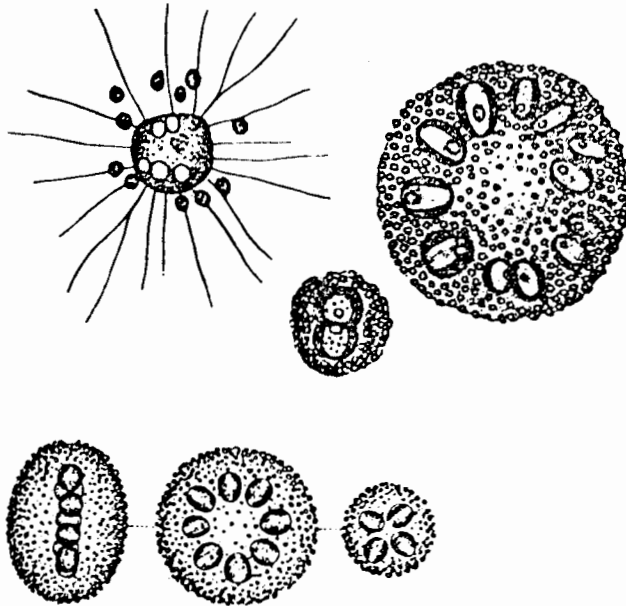


Species: *Chrysoctenophora globulifera* Scherffel

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXV.

Location: Experimental Lakes Area (summer, fall)

Size: Cell - length 8.5-10 μ
- width 6.5-8 μ
- colony 90 μ



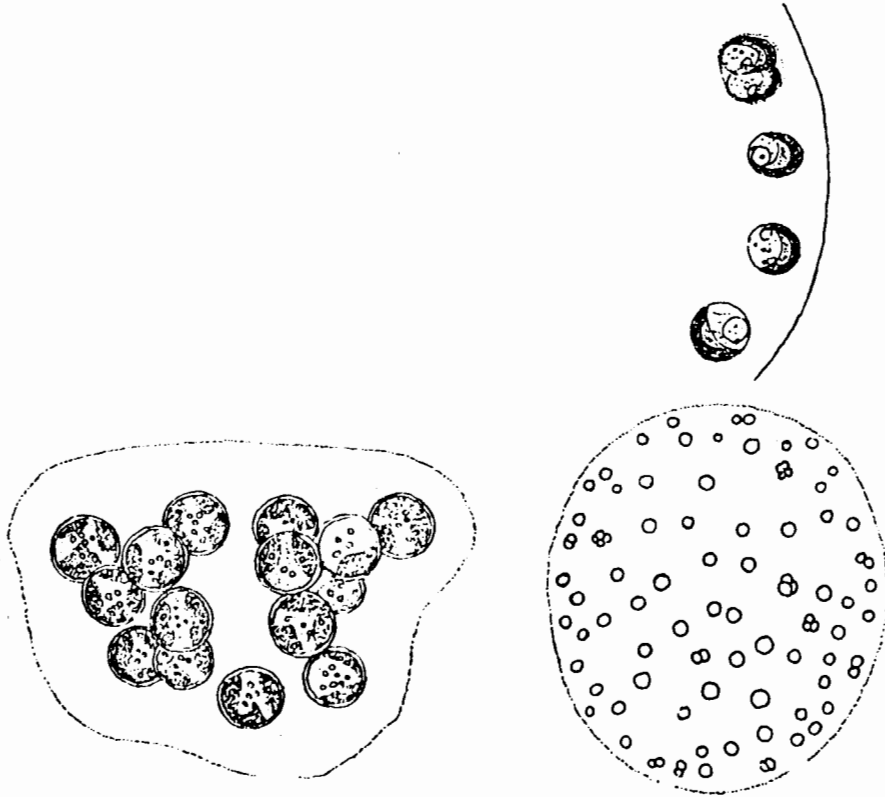
Species: *Chrysoospora planctonica* (W. and G. S. West) Pascher

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXVI.

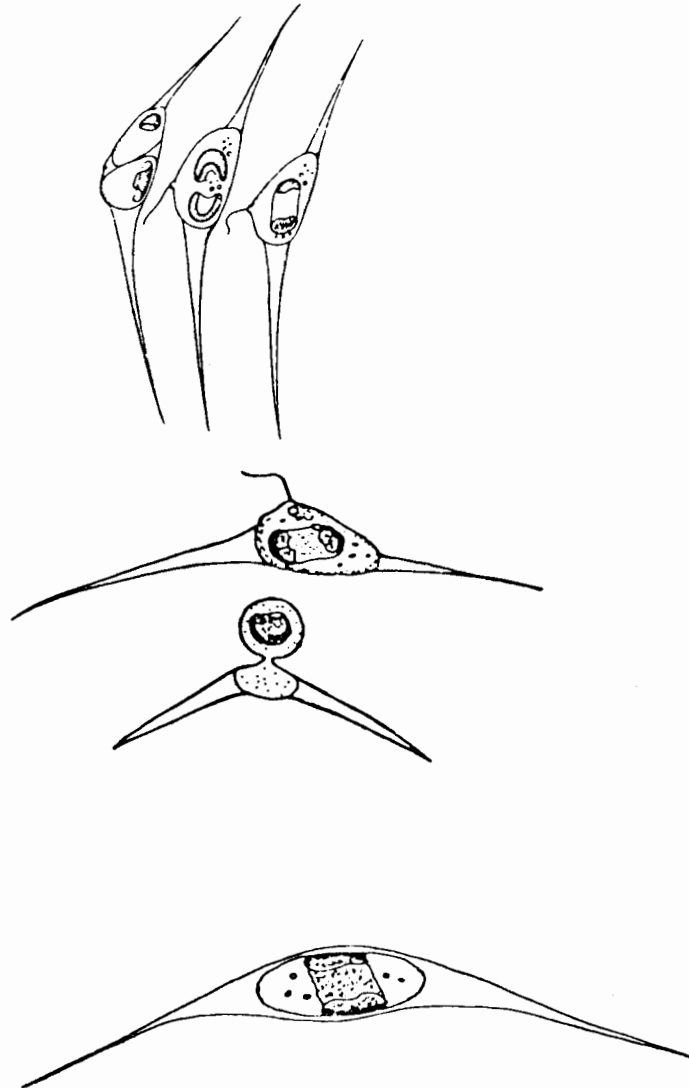
Location: Experimental Lakes Area (summer, fall)

Size: Cells - diameter 2-4 μ

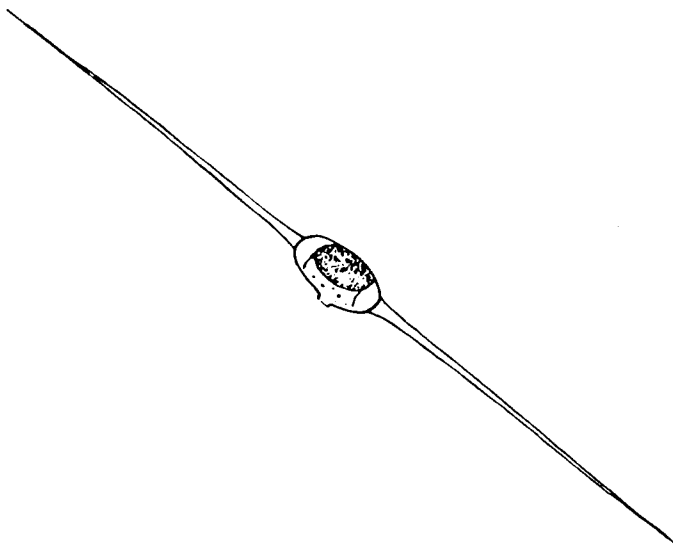
Colony - diameter 20-25 μ



- Species: *Bitriohia Chodatii* (Reverdin) Chodat
- Key: Matbiehko, O. M. 1965. Vznachnik prsnovodnikh
Vodorostei Ukrains R.S.R. 3 Chastiya 1: Zolotisti
vodorosti-Chrysophyta. Page 282.
- Location: Experimental Lakes Area (spring, summer)
Saqvaqujac
Southern Indian Lake
- Size: Cell - length 40-45 μ
- width 5-7 μ



- Species: *Bitrichia longiapina* (Lund) Bourrelly
- Key: Bourrelly, P. 1968. Les Algues d'eau douce.
Tome II. Les Algues Jaunes et brunes. Chrysophycées,
Pheophycées, Xanthophycées et Diatomées. Boubée et
Cie, Paris. Page 36.
- Location: Experimental Lakes Area (spring, summer)
- Size: Cell - length 95-110 μ
- width 5-8 μ

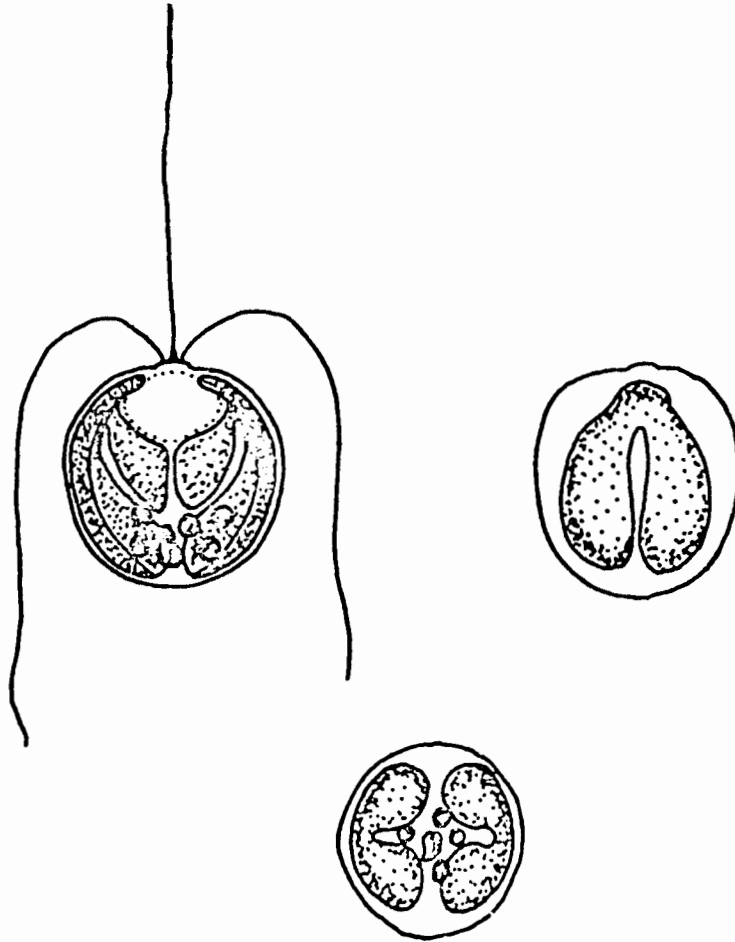


Species: *Chrysochromulina frigida* Holmgren

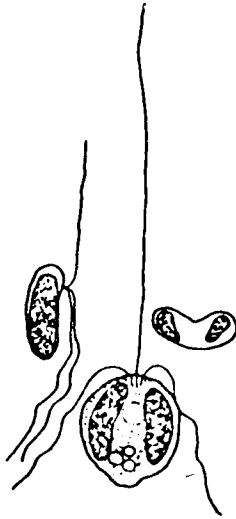
Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.

Location: Experimental Lakes Area (all year)

Size: Cell - diameter 10-14 μ



- Species: *Chrysochromulina parva* Lackey
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Linnologiska Institutionen, Uppsala.
- Location: Erickson Lakes
Char Lake
- Size: Cell - diameter 7-10 μ



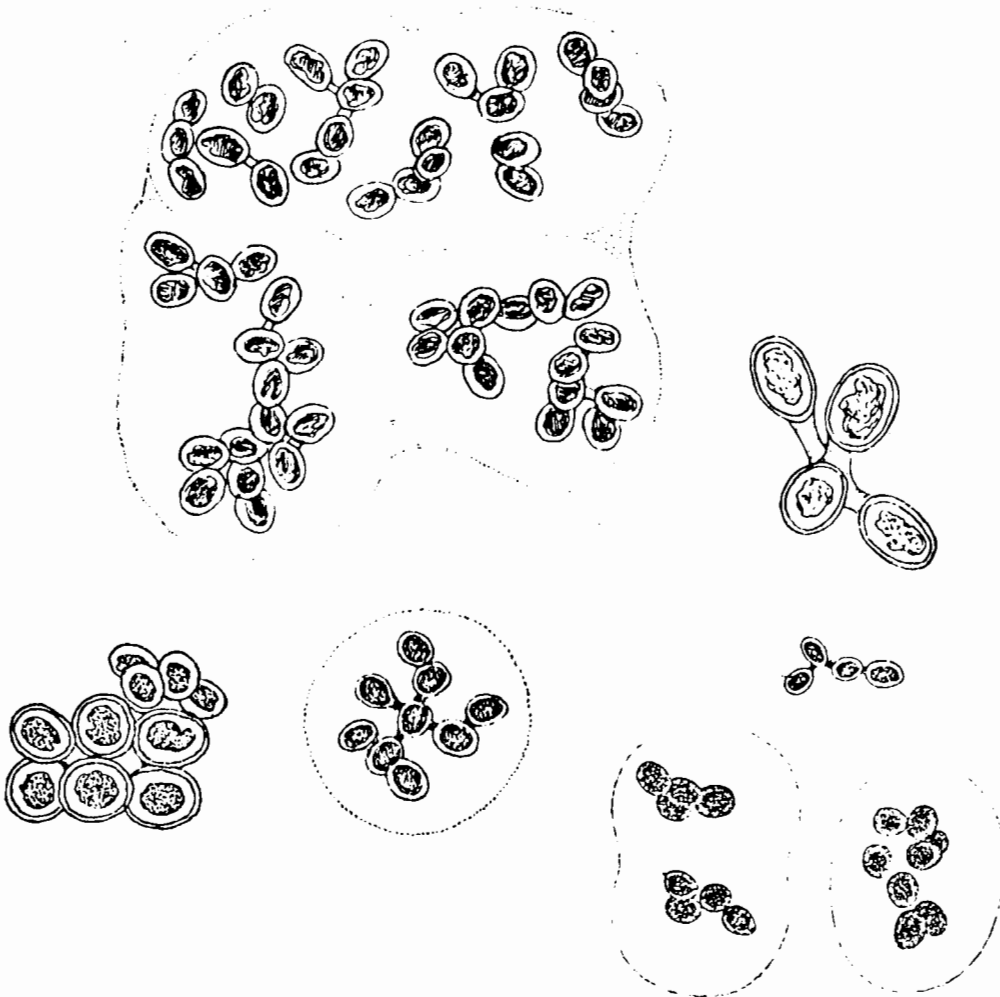
Species: *Stichogloea Doederleini* (Schmidle) Wille

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXIX.

Matblyhko, O. M. 1965. Vyznachnik prysnovodnikh
Vodorostei Ukraini R.S.R. 3 Chastiya 1: Zolotisti
vodorosti-Chrysofitya. Page 315.

Location: Experimental Lakes Area (summer, fall, winter)

Size: Cell - length 8 μ
- width 6 μ
- colony 4-32 μ

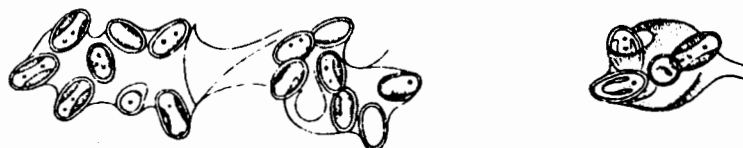


Species: *Stichogloea olivacea* Chodat

Key: Huber-Pestalozzi, G. 1941. Die Binnenqewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXIX.
Fott, B. 1971. Algenkunde. Fischer. Jena.

Location: Experimental Lakes Area (summer, fall, winter)
Saqvaqujac

Size: Cell - length 5-10 μ
- width 4-6 μ
Colony - 2-16 cells

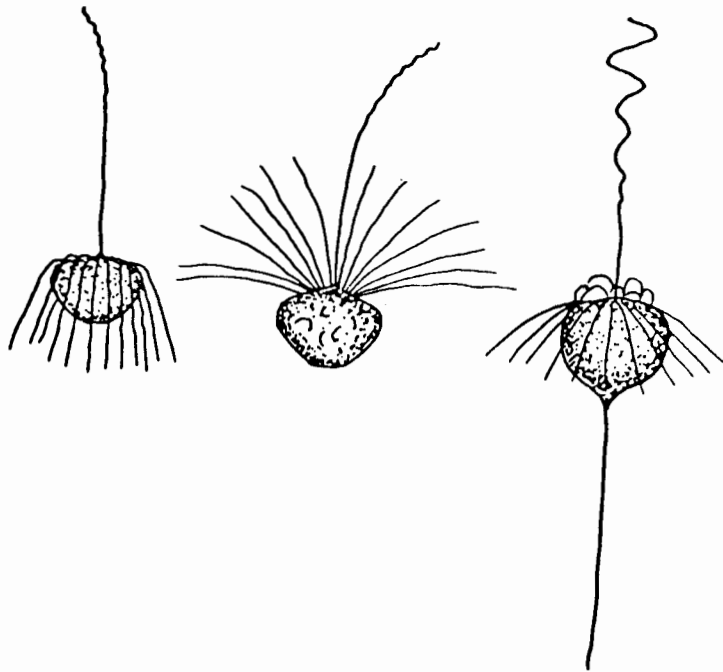


Species: *Pteridomonas pulex* Penard

Key: Holmgren, S. K. 1971. Fytoplankton Bilkdopendium
utgivet av Limnologiska Institutionen Uppsala.
Skuja, H. 1948. Taxonomie des Phytoplankton Einiger
Seen in Uppland, Schweden. Symb. Bot. Ups. Ups. IX. Taf. XXXII.

Location: Southern Indian Lake
Southern Ontario lakes near Peterborough

Size: Cells - length 7-9 μ
- width 9-11 μ

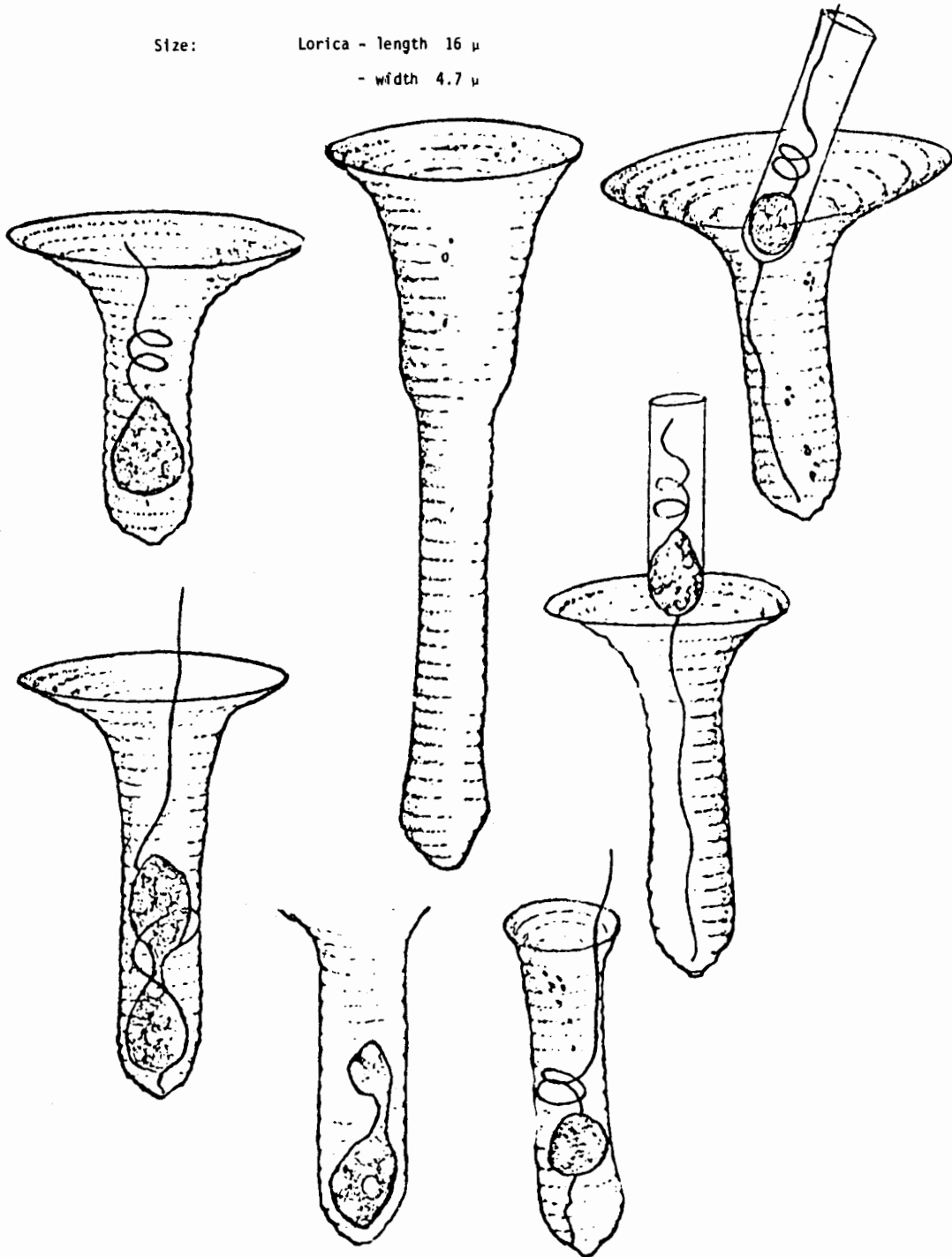


Species: *Blaeoba arnikkiae* Jarnefelt

Key: Skuja, H. 1956. Taxonomische und Biologische Studien
Über das Phytoplankton Schwedischer Binnengewässer.
Nova Acta Regiae Soc. Sci. Ups. Ser. IV. No. 3. Vol. 16
Taf. LIII.

Location: Erickson Lakes
Lake Winnipeg

Size: Lorica - length $16\ \mu$
- width $4.7\ \mu$

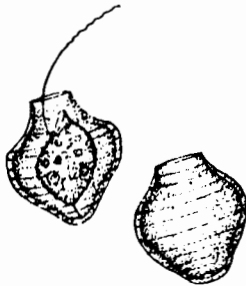


Species: *Bicoeca De Fouquesiana* Bourrelly

Key: Skuja, H. 1956. Taxonomische und Biologische Studien Über das
Phytoplankton Schwedischer Binnengewässer. Nova Acta Regiae,
Soc. Sci. Ups. Ser. IV. Vol. 16. No. 3. Taf. LIII.

Location: Experimental Lakes Area (summer, fall)

Size: Lorica - length 10-13 μ
- width 5-6 μ



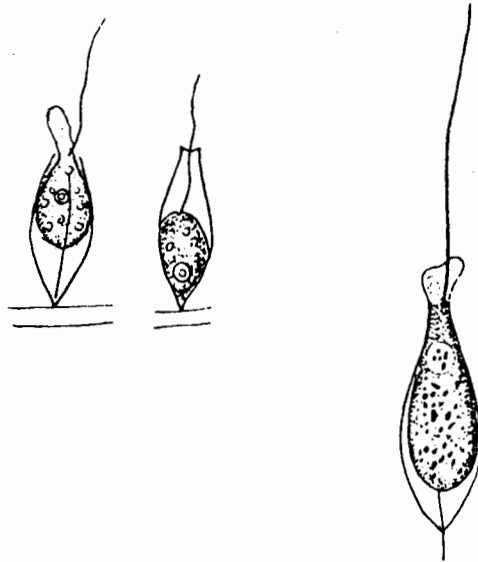
Species: *Bisocoela laowotria* Clark

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXXI.

Location: Experimental Lakes Area (fall, winter)
Saqvaqujac
Southern Indian Lake
Lake Winnipeg
Clay Lake

Size: Cell - length 14-25 μ

Note: *B. laowotria* is sometimes epiphytic on *Tabellaria*
fenestrata and *Asterionella formosa*.



Species: *Bicocca multinulata* Skuja

Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.
Skuja, H. 1948. Taxonomie des Phytoplankton Einiger
Seen in Uppland, Schweden. Symb. Bot. Ups. IX. Taf. XXXIV.

Location: Experimental Lakes Area (spring, summer, fall)
Southern Indian Lake
Saqvaqujac

Size: Lorica - length 8-12 μ
Cell - length 4-6 μ

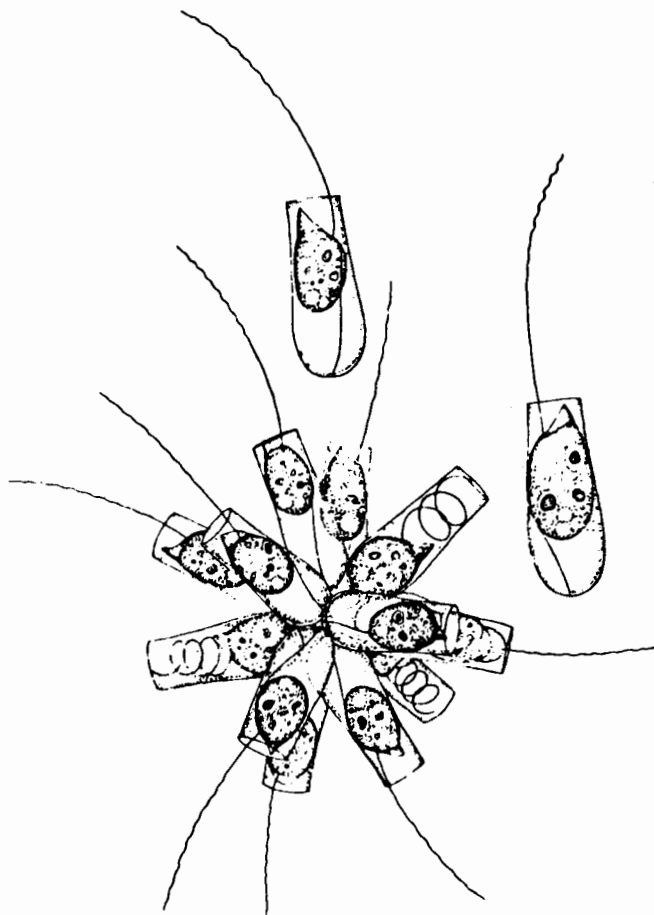


Species: *Hicouxi socialis* Lauterborn

Key: Skuja, H. 1956. Taxonomische und Biologische Studien Über das
Phytoplankton Schwedischer Binnengewässer. Nova Acta Regiae
Soc. Sci. Ups. Ser. IV. Vol. 16. No. 3. Taf. LIV.

Location: Southern Indian Lake

Size: Lorica - length 20-25 μ
- width 6-8 μ
Cell - length 8-13 μ
- width 6-7 μ

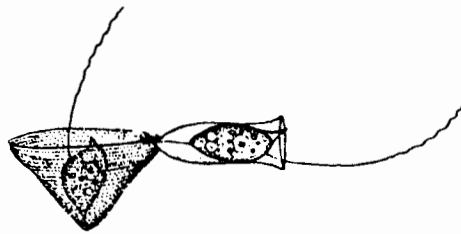


Species: *Brevocera synoica* Skuja

Key: Skuja, H. 1956. Taxonomische und Biologische Studien Über das
Phytoplankton Schwedischer Binnengewässer. Nova Acta Regiae.
Soc. Sci. Ups. Ser. IV. Vol. 16. No. 3 Taf. LIII.

Location: Lake Winnipeg

Size: Lorica - length 11-13 μ
- width 4-6 μ

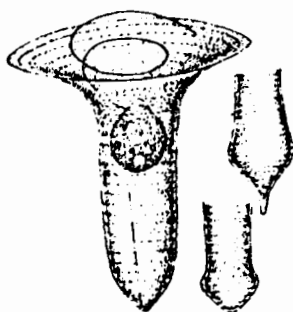


Species: *Bicoeca tubiformis* Skuja

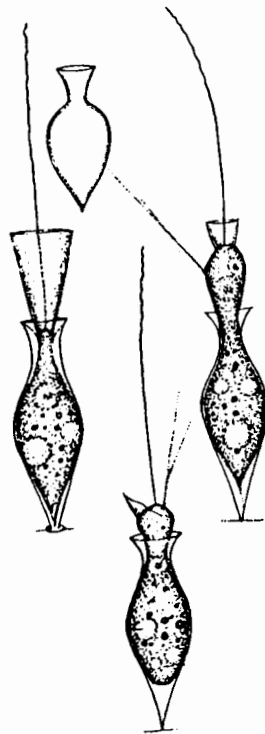
Key: Skuja, H. 1956. Taxonomische und Biologische Studien über das
Phytoplankton Schwedischer Binnengewässer. Nova Acta Regiae
Soc. Sci. Ups. Ser. IV. Vol. 16. No. 3. Taf. LIII.

Location: Saqvaqjuac

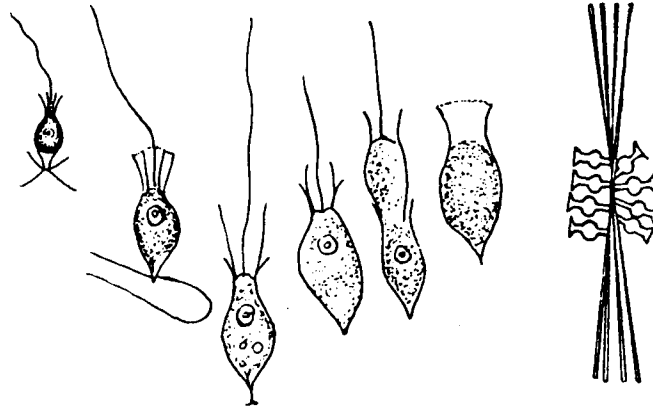
Size: Lorica - length 20-42 μ
- width 5-9.5 μ
Cell - length 8-12 μ
- width 5-7 μ



- Species: *Salpingoeca Buetschlii* Lemmermann
- Key: Skuja, H. 1964. Grundzüge der Algenflora und Algenvegetation der Fjeldgegenden um Abisko in Schwedisch-Lappland. Nova Acta Regiae. Soc. Sci. Ups. Ser. IV. Vol. 18. No. 3. Taf. XXXIV.
- Location: Experimental Lakes Area (summer, fall, winter)
- Size: Lorica - length 15-18 μ
- width 8-10 μ
Opening 5-6 μ



- Species: *Salpingoeca frequentissima* (Zacharias) Lemmermann
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das Phytoplankton des Süßwassers. Band XVI. Teil 2:1. Taf. LXXXV.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake (all year)
Erickson Lakes (all year)
- Size: Lorica - length 10-11 μ
- width 3.7-4.5 μ
- opening 4.5-6 μ
- Note: *S. frequentissima* is also found as an epiphyte on *Tabellaria fenestrata* and *Asterionella formosa*.

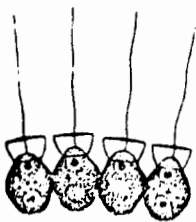


Species: *Desmarella brachycalyx* Skuja

Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.
Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXXIII.

Location: Erickson Lakes

Size: Cell - length 9.5-11 μ
- width 7-8 μ
- opening 4-7 μ
Colony - length 30-33 μ
- width 10-11 μ

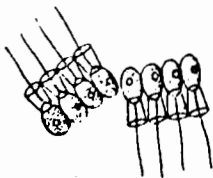


Species: *Desmarella moniliformis* Kent

Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. LXXXIII.

Location: Erickson Lakes

Size: Cell - length 6 μ

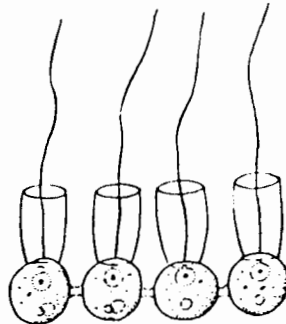


Species: *Deumarella phalanx* Stein

Key: Bourelly, P. 1968. Les Algues d'eau douce.
Tome II. Les Algues jaunes et brunes. Chrysophycées,
Pheophycées, Xanthophycées et Diatomées. Boubée et
Cie, Paris. Page 131.

Location: Erickson Lakes

Size: Cell - length 9-11 μ

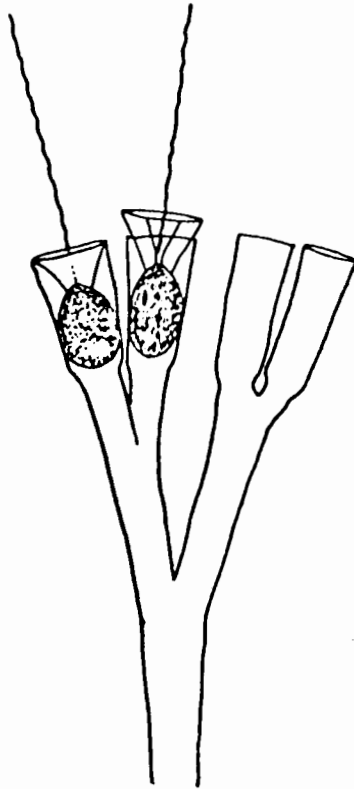


Species: *Stelezmonas dichotoma* Lackey

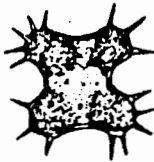
Key: Lackey, J. B. 1942. Two new flagellate protozoa
from Tennessee River. Trans. Am. Microsc. Soc. 61:
36-39.

Location: Southern Indian Lake

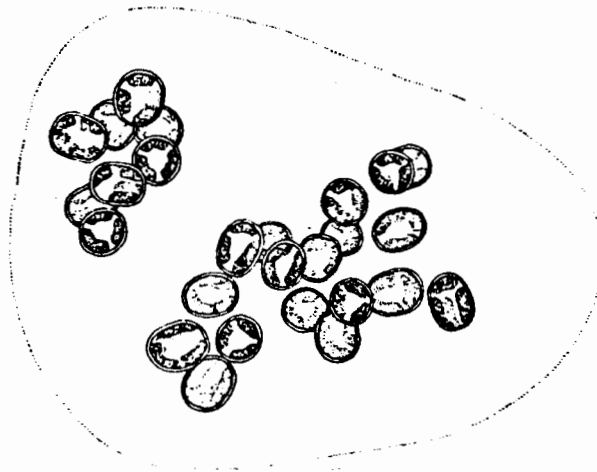
Size: Cell - length $10\ \mu$
- diameter $8\ \mu$
Collar - diameter $12\ \mu$



- Species: *Isthmochloron triispinatum* (W. and G. S. West) Skuja
- Key: Holmgren, S. K. 1971. Fytoplankton Bildkompendium
utgivet av Limnologiska Institutionen, Uppsala.
Skuja, H. 1948. Taxonomie des Phytoplanktons Einiger
Seen in Uppland, Schweden. Symb. Bot. Ups. IX. Taf. XXXVI.
- Location: Experimental Lakes Area (spring, summer, fall)
Saqvaqjuac
Southern Indian Lake
Lake Winnipeg
- Size: Cell - length 15-18 μ
- width 4-8 μ
Spines - length 9.5-13 μ
- width 9-12 μ



- Species: *Gloobotriza limnetica* (G. M. Smith) Pascher
- Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XCI.
- Location: Experimental Lakes Area (spring, summer)
Southern Indian Lake (summer)
Yellowknife area (summer)
Erickson Lakes (spring, fall)
Lake Winnipeg (spring, summer, fall)
Saqvaqujac (summer)
- Size: Cell - length 6-8 μ
- width 5-6 μ
Colony - diameter 40-200 μ

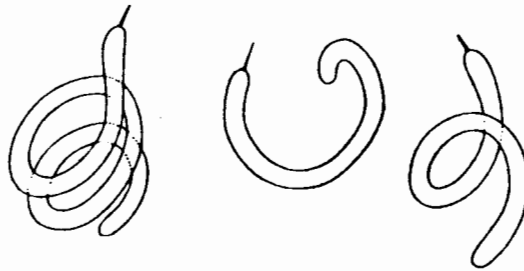


Species: *Ophioctyum cochleare* A. Braun

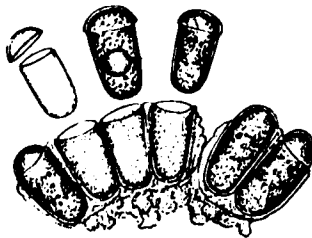
Key: Huber-Pestalozzi, G. 1941. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 2:1.
Taf. XCV.

Location: Experimental Lakes Area (spring, summer, fall)

Size: Cell - length 4.5-10 μ
- width 3-7 μ
Spine - length 1-12 μ
- width 5-8 μ



- Species: *Botryococcus Brawleyi* Kuetzing
- Key: Skuja, H. 1948. Taxonomie des Phytoplanktons Einiger
Seen in Uppland, Schweden. Symb. Bot. Ups. IX. Taf. XXXVI.
- Location: Experimental Lakes Area (all year)
Saqvaqujac
Erickson Lakes
Southern Indian Lake
Lake Winnipeg
Char Lake
- Size: Cell - length 7-12 μ
- width 6-10 μ
Colony - length 39-90 μ
- width 90 μ
- thickness 40 μ
- Note: Dominant in ELA Lake 120 (spring, summer)

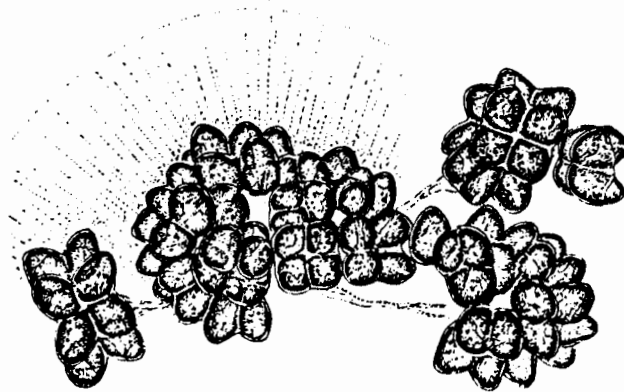


Species: *Botryococcus protuberans* W. and G. S. West

Key: Skuja, H. 1948. Taxonomie des Phytoplanktons Einerer Seen in Upland, Schweden. Symp. Bot. Ups. IX. Taf. XXXVI.

Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg

Size: Cell - length 7-12 μ
- width 6-10 μ

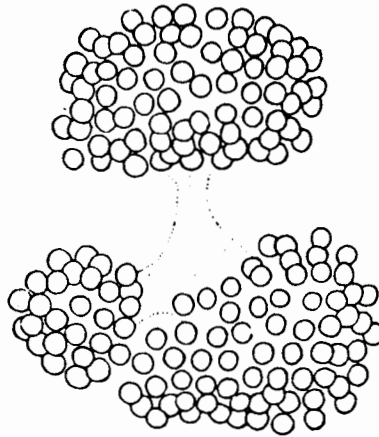


Species: *Botryococcus sudeticus* Lemmermann

Key: Prescott, G. W. 1961. Algae of the Western Great Lakes Area. W. C. Brown Co. Publishers. Dubuque, Iowa. Plate 52.

Location: Experimental Lakes Area (summer, fall)

Size: Cell - diameter 6-13 μ

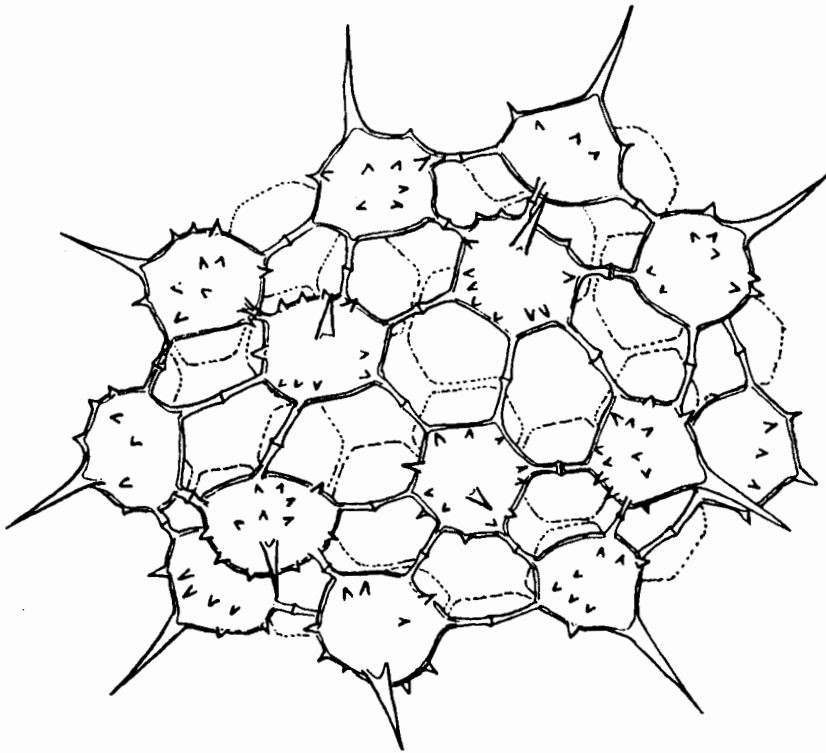


Species: *Ducelliera chodatii* (Ducellier) Teiling

Key: Bourrelly, P. 1968. Les Algues d'eau douce. Tome 11.
Les algues jaunes et brunes. Chrysophycées, Pheophycées,
Xanthophycées et Diatomées. Boubee et Cie, Paris. Plate 40.

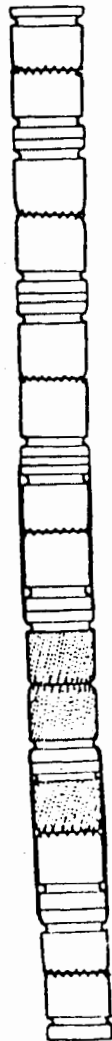
Location: Experimental Lakes Area (summer, fall)

Size: Cell - length 5-9 μ
- width 3-6 μ

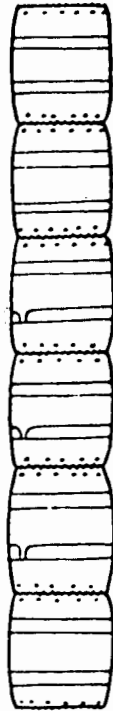


DIATOMEAE

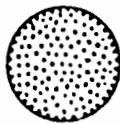
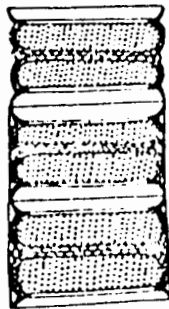
- Species: *Melosira ambigua* (Grunow) O. Mueller
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 89.
- Location: Experimental Lakes Area (spring)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - diameter 4-15 μ
- length 3.5-13 μ



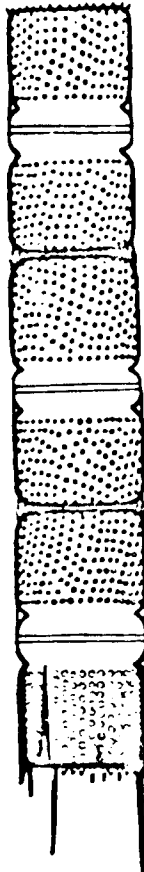
- Species: *Melosira binderana* Kuetzing
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 86.
- Location: Lake Winnipeg
Southern Indian Lake
- Size: Cell - diameter 4-25 μ
- length 3-7 μ



- Species: *Melosira distans* (Ehrenberg) Kuetzing
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 92.
- Location: Experimental Lakes Area (all year)
Erickson Lakes
Southern Indian Lake
Char Lake
- Size: Cell - diameter 4-20 μ
- length 4-8.5 μ



- Species: *Melosira granulata* (Ehrenberg) Ralfs
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 87.
- Location: Experimental Lakes Area (summer)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake
- Size: Cell - diameter 5-21 μ
- length 5-18 μ

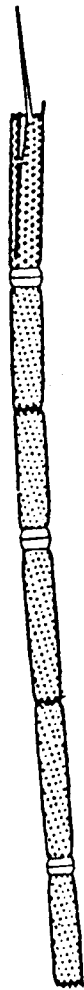


Species: *Melosira granulata* var. *angustissima* O. Mueller

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 88.

Location: Lake Winnipeg
Southern Indian Lake

Size: Cell - diameter 3-5 μ



Species: *Melosira islandica* sub. sp. *helvetica* O. Mueller

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 89.

Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg
Southern Indian Lake

Size: Cell - diameter 3-28 μ
- length 5-6 μ

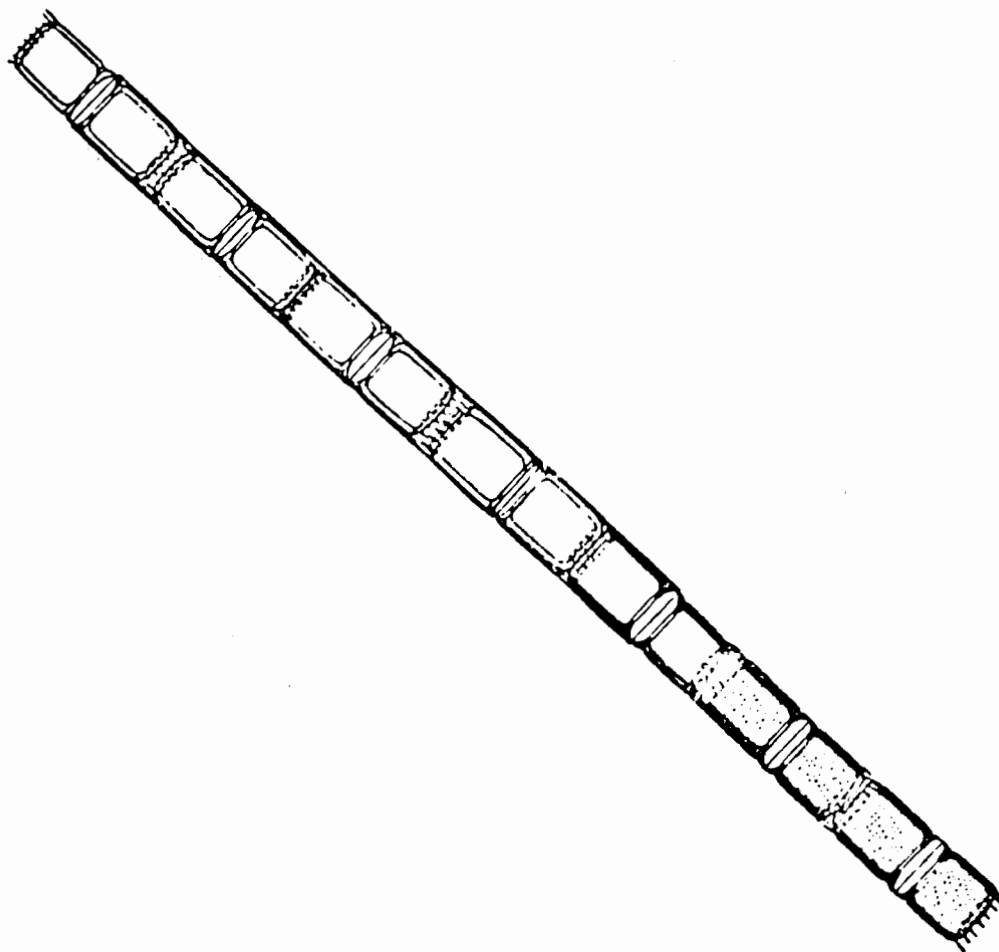


Species: *Melosira italica* var. *subarctica* O. Mueller

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 92.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake

Size: Cell - diameter 3-15 μ
- length 2.5-18 μ

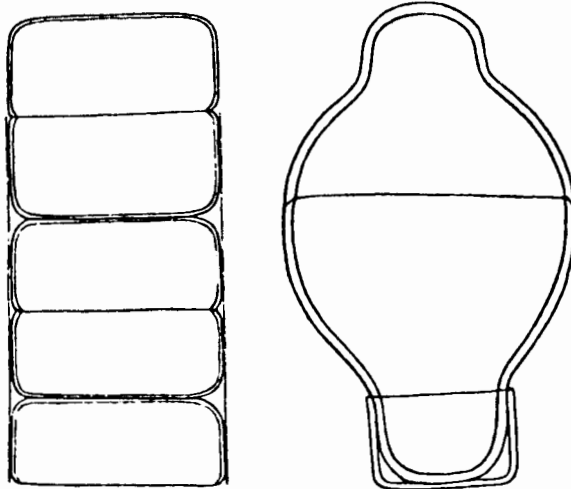


Species: *Melosira varians* C. A. Agardh

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 85.

Location: Lake Winnipeg

Size: Cell - diameter 8-35 μ
- length 9-13 μ

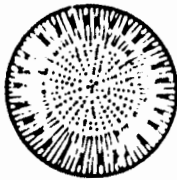


Species: *Cyclotella oomta* (Ehrenberg) Kuetzing

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 103.

Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake

Size: Cell - diameter 15-50 μ

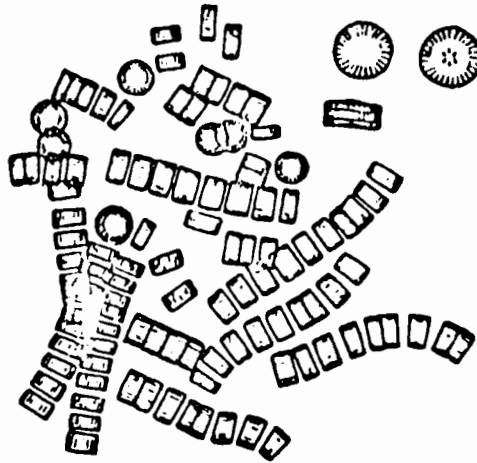


Species: *Cydotella glomerata* Bachmann

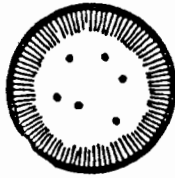
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 105.

Location: Experimental Lakes Area (all year)
Erickson Lakes
Char Lake

Size: Cell - diameter 4-10 μ



- Species: *Cyclotella Küstingiana* Thwaites
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 99.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
Char lake
- Size: Cell - diameter 10-45 μ

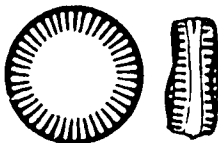


Species: *Cyclotella Meneghiniana* Kuetzing

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 100.

Location: Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake

Size: Cell - diameter 10-30 μ

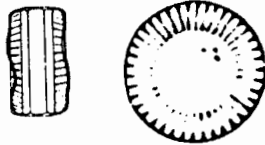


Species: *Cyclotella Meneghiniana* var. *laevissima* (Van Goor) Hustedt

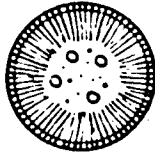
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 100.

Location: Erickson Lakes

Size: Cell - diameter 10-15 μ



- Species: *Cyclotella ocellata* Pantocsele
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 100.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - diameter 6-20 μ

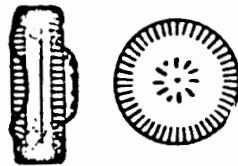


Species: *Cyclotella stelligera* Cleve and Grunow

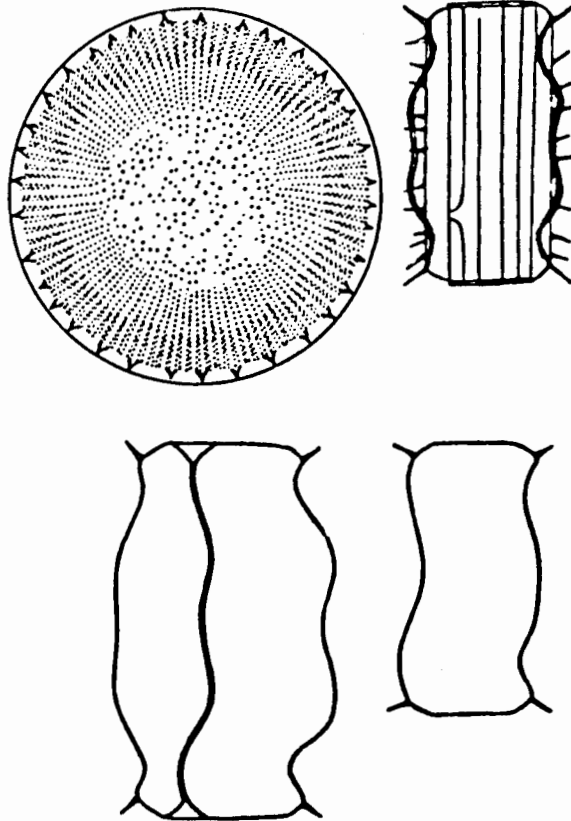
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 100.

Location: Experimental Lakes Area (all year)
Southern Indian Lake
Erickson Lakes
Saqvaqjuac

Size: Cell - diameter 5-25 μ



- Species: *Stephanodiscus aetrea* (Ehrenberg) Grunow
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 110.
- Location: Lake Winnipeg
Erickson Lakes
Southern Indian Lake
Char Lake
- Size: Cell - diameter 30-70 μ



Species: *Stephanodiscus Hantzschii* Grunow

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 110.

Location: Lake Winnipeg
Southern Indian Lake

Size: Cell - diameter 8-20 μ

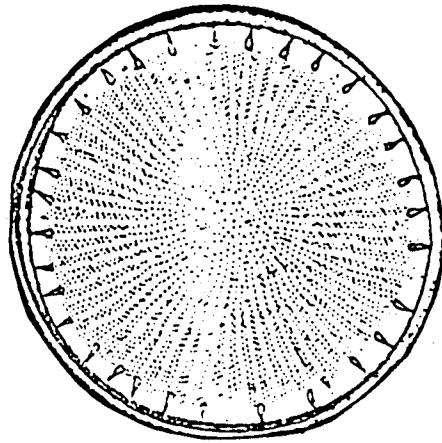


Species: *Stephanodiscus niagarae* Ehrenberg

Key: Anon. 1966. A Guide to the Common Diatoms at Water
Pollution Surveillance Systems Stations. U. S.
Department of the Interior. Figure 28.

Location: Lake Winnipeg

Size: Cell - diameter 30-100 μ

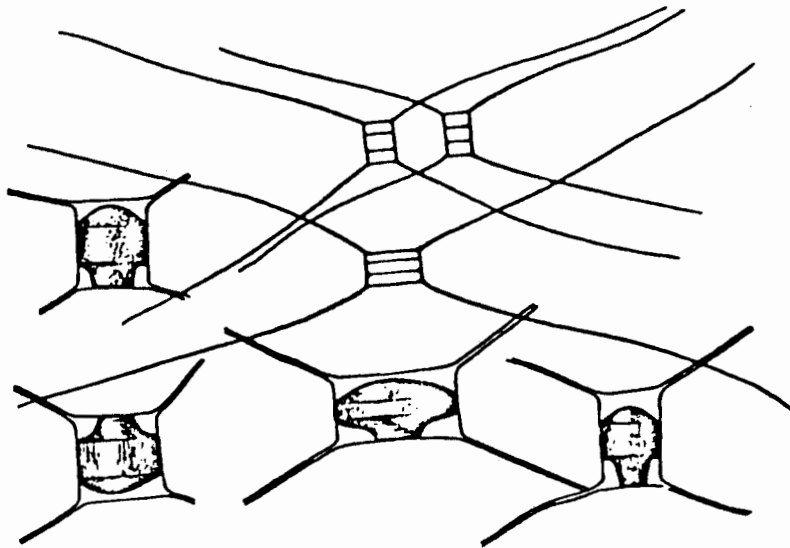


Species: *Chaetoceros Mulleri* Lemmermann

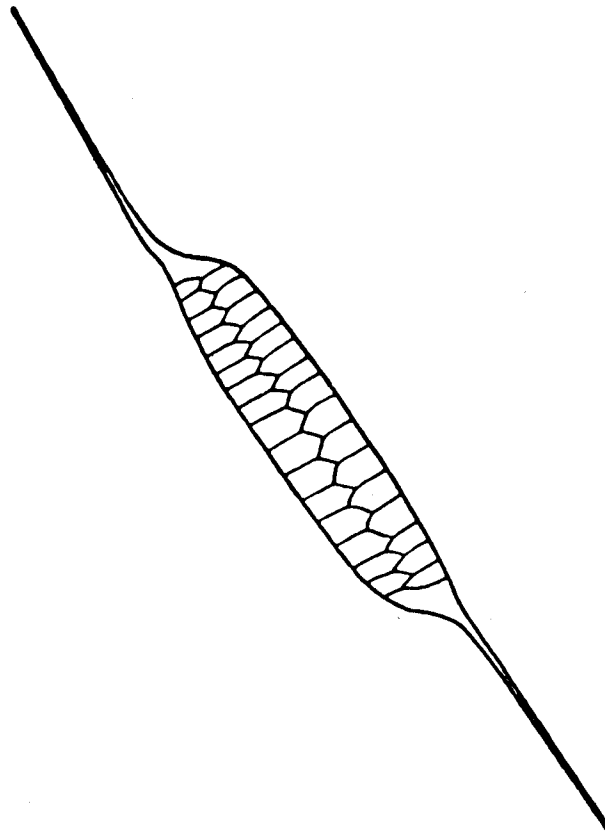
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 117.

Location: Erickson Lakes

Size: Cell - diameter 5-20 μ



- Species: *Rhizosolenia oriensis* H. L. Smith
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 115.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
Char Lake
- Size: Cell - length 40-150 μ
- width 5-15 μ

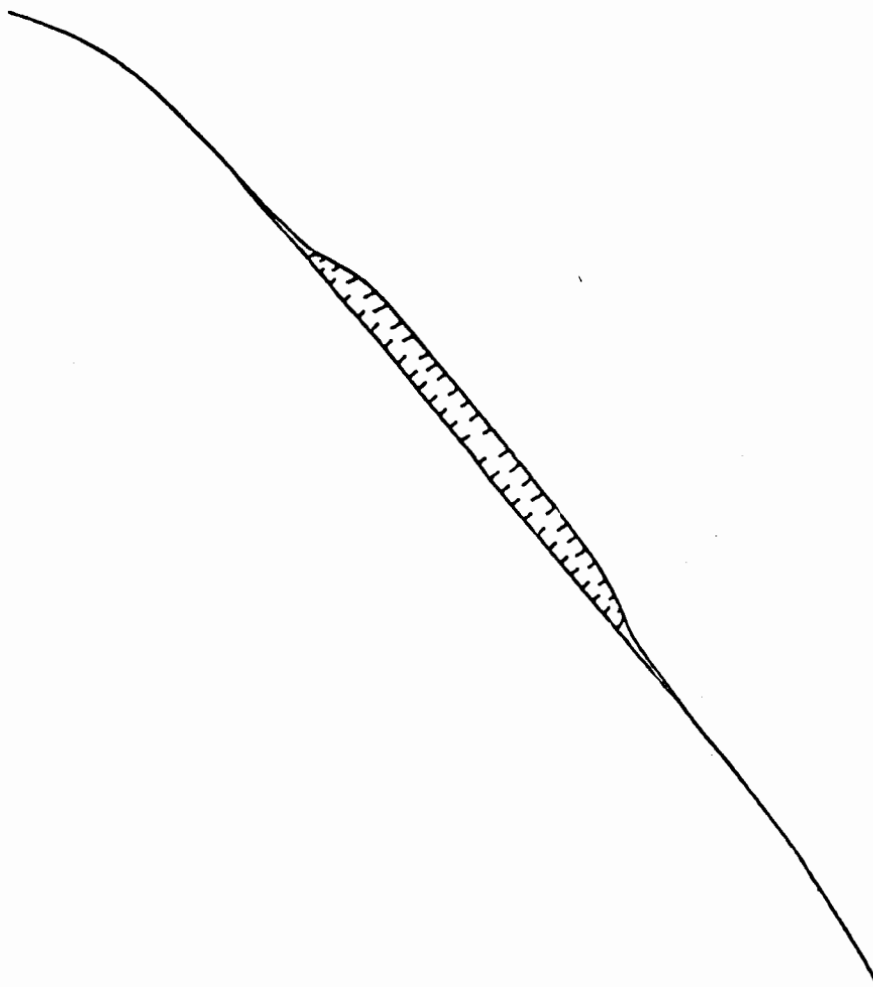


Species: *Rhizosolenia longisetata* Zacharias

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 114.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Saqvaqjuac

Size: Cell - length 70-200 μ
- diameter 4-10 μ

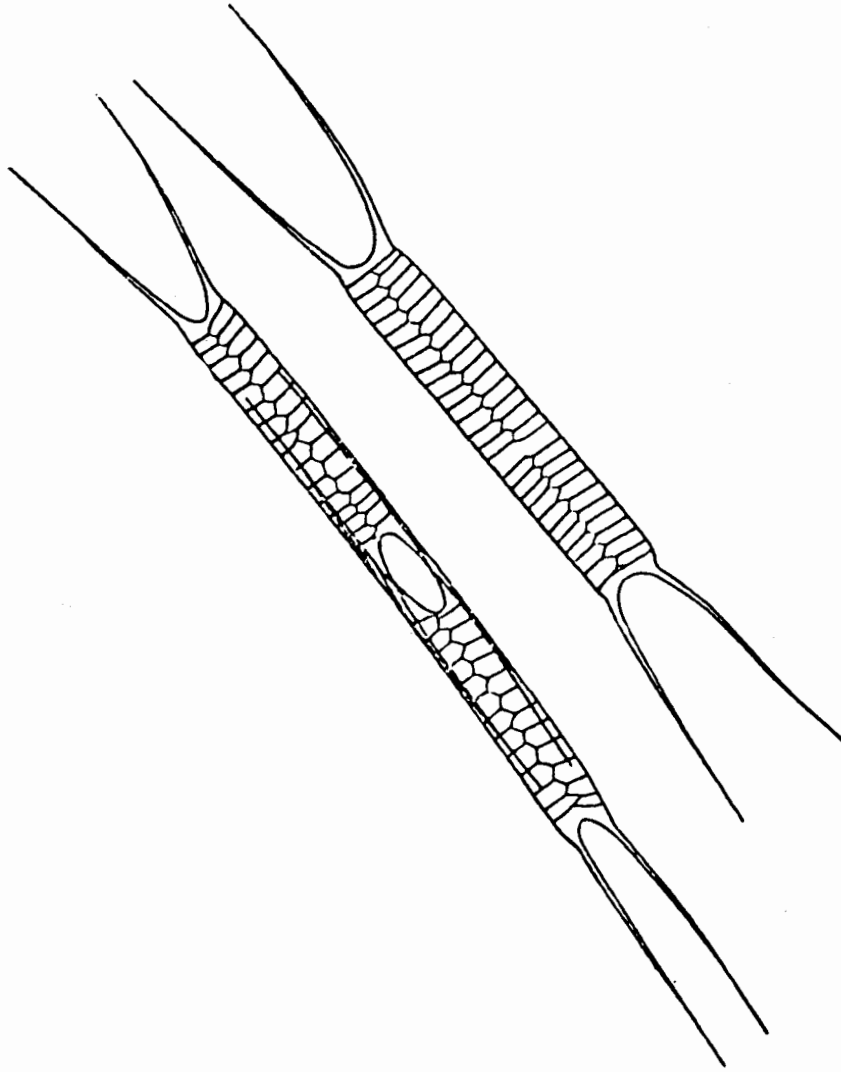


Species: *Attheya zachariaei* Brun

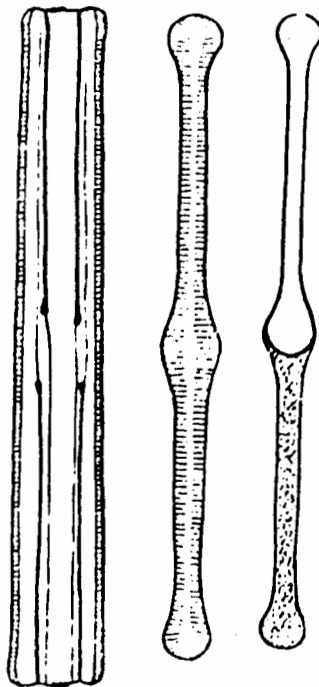
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 118.

Location: Lake Winnipeg
Clay Lake

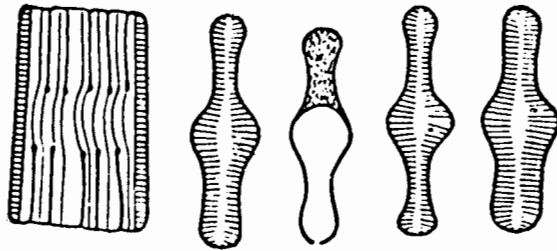
Size: Cell - length 12-40 μ
spine - length 40-60 μ



- Species: *Tabellaria fenestrata* (Lyngby) Kuetzing
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 122.
- Location: Experimental Lakes Area (all year)
Erickson Lakes Char Lake
Lake Winnipeg
Southern Indian Lake
Saqvaqjuac
- Size: Cell - length 30-140 μ
- width 3-9 μ



- Species: *Tabellaria floouloosa* (Rothe) Kuetzing
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 123.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg Char Lake
Southern Indian Lake
Saqvaqjuac
- Size: Cell - length 12-50 μ
- width 5-16 μ



Species: *Diatoma elongatum* Agardh

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 127.

Location: Erickson Lakes
Lake Winnipeg
Southern Indian Lake

Size: Cell - length 40-120 μ
- width 2-4 μ

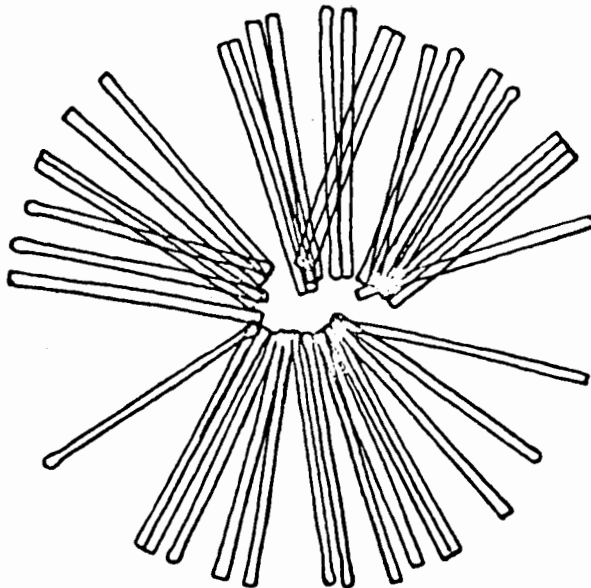


Species: *Diatoma elongatum* var. *astinastroides* Krieger

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer, Jena. Page 128.

Location: Erickson Lakes

Size: Cell - length 40-120 μ
- width 2-4 μ

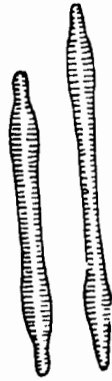


Species: *Fragilaria alpestris* Krasske

Key: Cleve-Euler. 1951. Die Diatomeen Von Schweden Und
Finnland. Kungl. Svenska Vetenskapsakademiens
Handlingar. Fjarde Serien. Band 2. No. 1. Figure
354 B.

Location: Lake Winnipeg

Size: Cell - length 20-50 μ
- width 2-3 μ

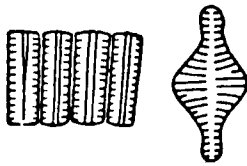


Species: *Fragilaria construens* (Ehrenberg) Grunow

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 140.

Location: Experimental Lakes Area (all year)
Lake Winnipeg

Size: Cell - length 7-25 μ
- width 5-12 μ



Species: *Fragilaria oonstruens* var. *binodis* (Ehrenberg) Grunow

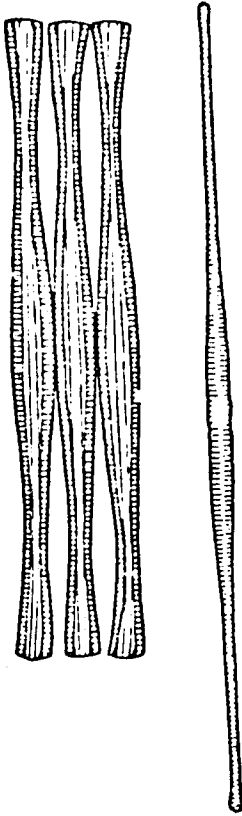
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 141.

Location: Southern Indian Lake

Size: Cell - length 7-25 μ
- width 5-12 μ



- Species: *Fragilaria orotonensis* Kitton
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 137.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 40-150 μ
- width 2-3 μ



Species: *Fragilaria rumpens* var. *genuina* (Kuetzing) Carlson

Key: Cleve-Euler. 1951. Die Diatomeen Von Schweden Und
Finnland. Fungl. Svenska Vetenskapsakademiens
Handlinger. Fjarde Serien. Band 2. No. 1. Figure
352 a, aa.

Location: Lake Winnipeg

Size: Cell - length 30-50 μ
- width 2-3 μ

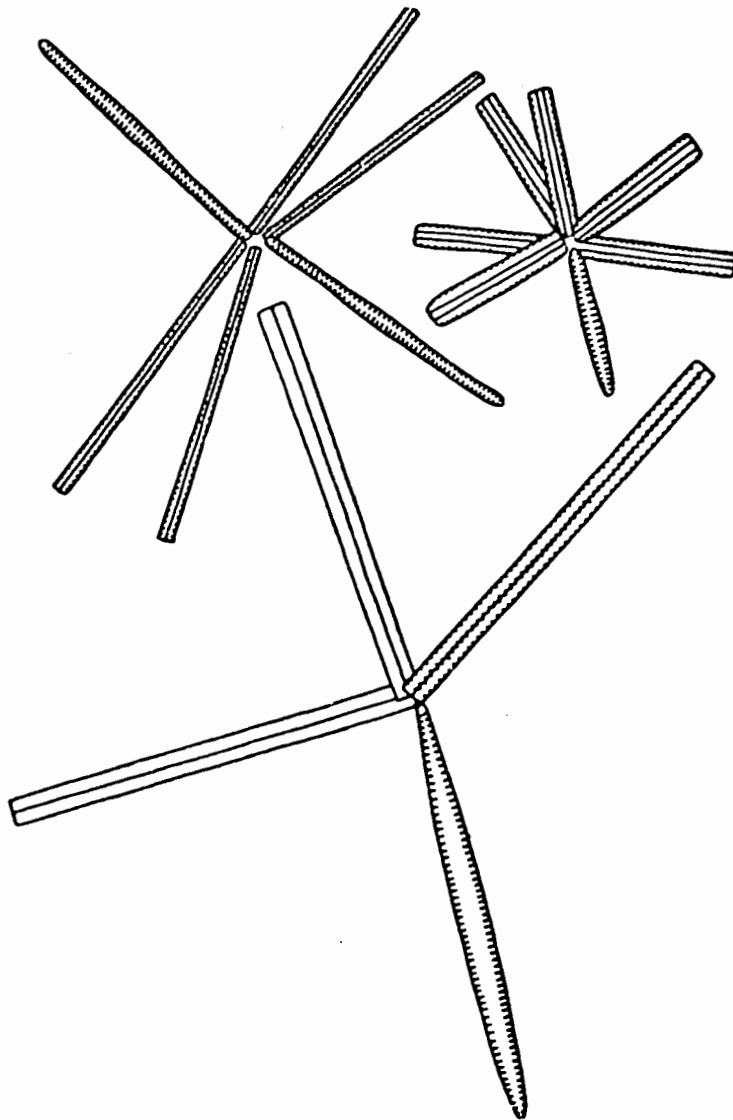


Species: *Synedra aotinastroides* Lemmermann

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae). Pascher, A.
Prof. Dr. Die Süßwasser-Flora Mitteleuropas. Heft 10. Zweite
Auflage. Fischer. Jena. Page 164.

Location: Southern Indian Lake

Size: Cell - length 35 - 64 μ
- width 2.5 - 4 μ



Species: *Synedra acus* Kuetzing

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 155.

Location: Experimental Lakes Area (all year)
Saqvaqujac Char Lake

Size: Cell - length 100-300 μ
- width 3-6 μ

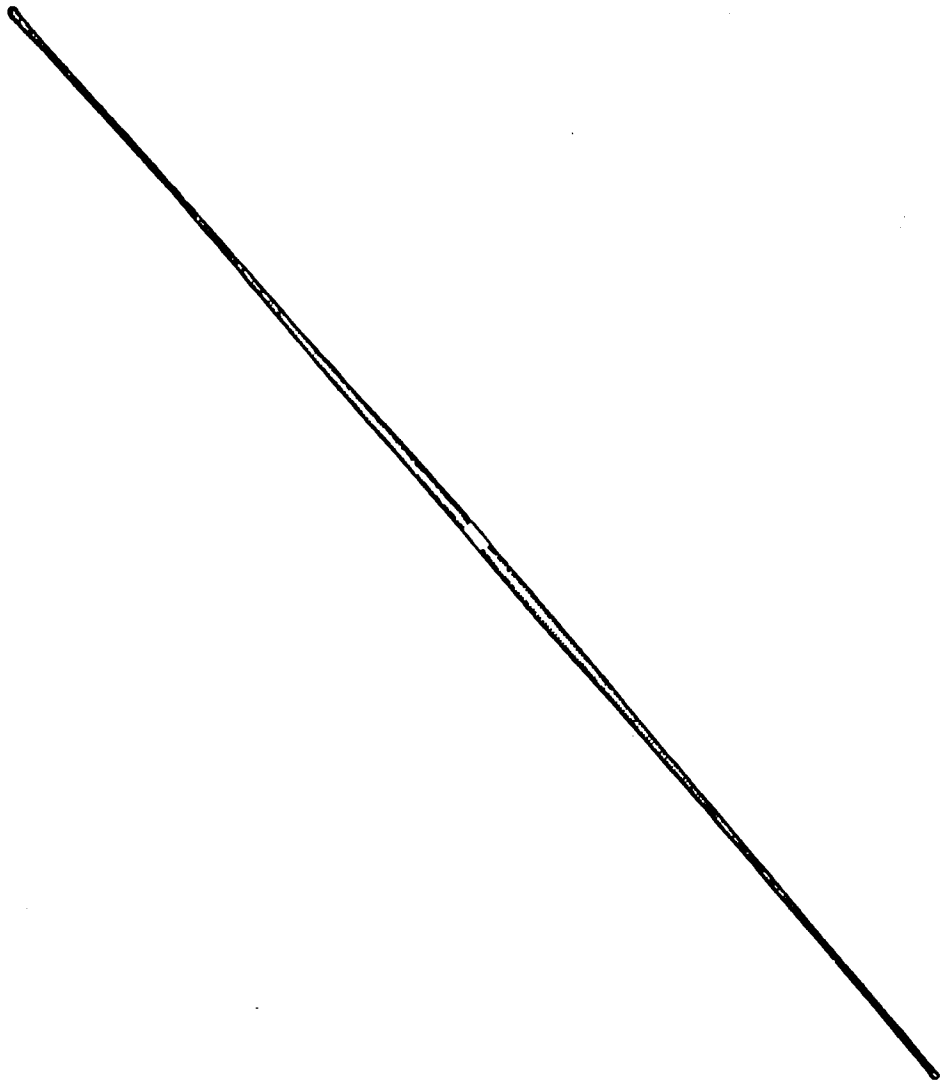


Species: *Synedra acus* var. *angustissima* Grunow

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 155.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
Saqvaqjuac

Size: Cell - length 500 μ
- width 1-1.5 μ

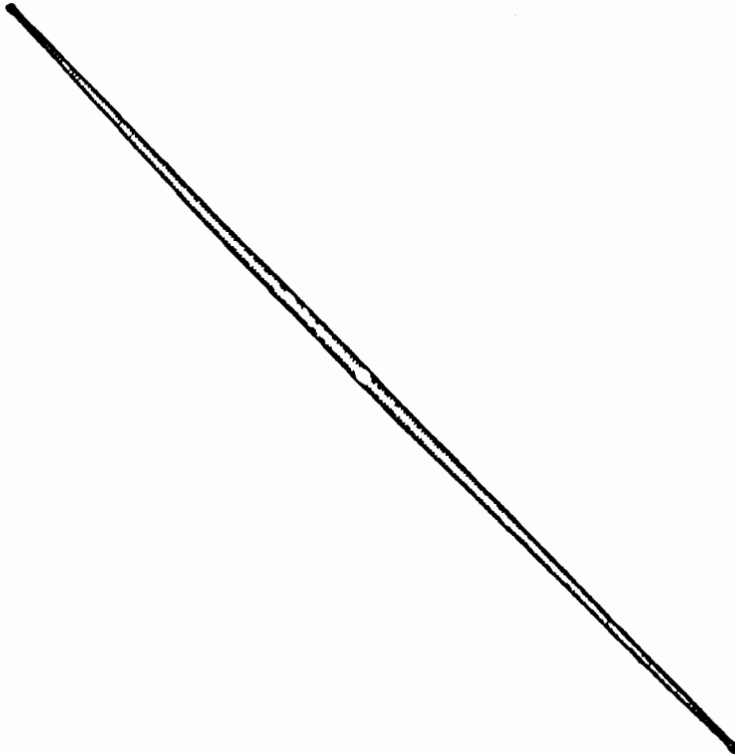


Species: *Synedra acus* var. *radians* (Kuetzing) Hustedt

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 155.

Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake

Size: Cell - length 2-4 μ
- width 40-200 μ

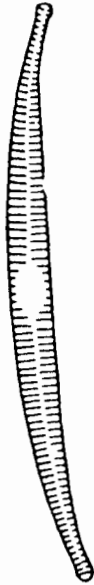


Species: *Synedra cyclopus* Brutschy

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 162.

Location: Erickson Lakes

Size: Cell - length 25-93 μ
- width 3-4 μ



Species: *Synedra nana* Meister

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 158.

Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg
Southern Indian Lake
Saqvaqujac

Size: Cell - length 50-90 μ
- width 1.5-2 μ

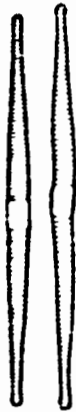


Species: *Synedra rumpuna* Kuetzing

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 156.

Location: Erickson Lakes

Size: Cell - length 27-70 μ
- width 2-3 μ

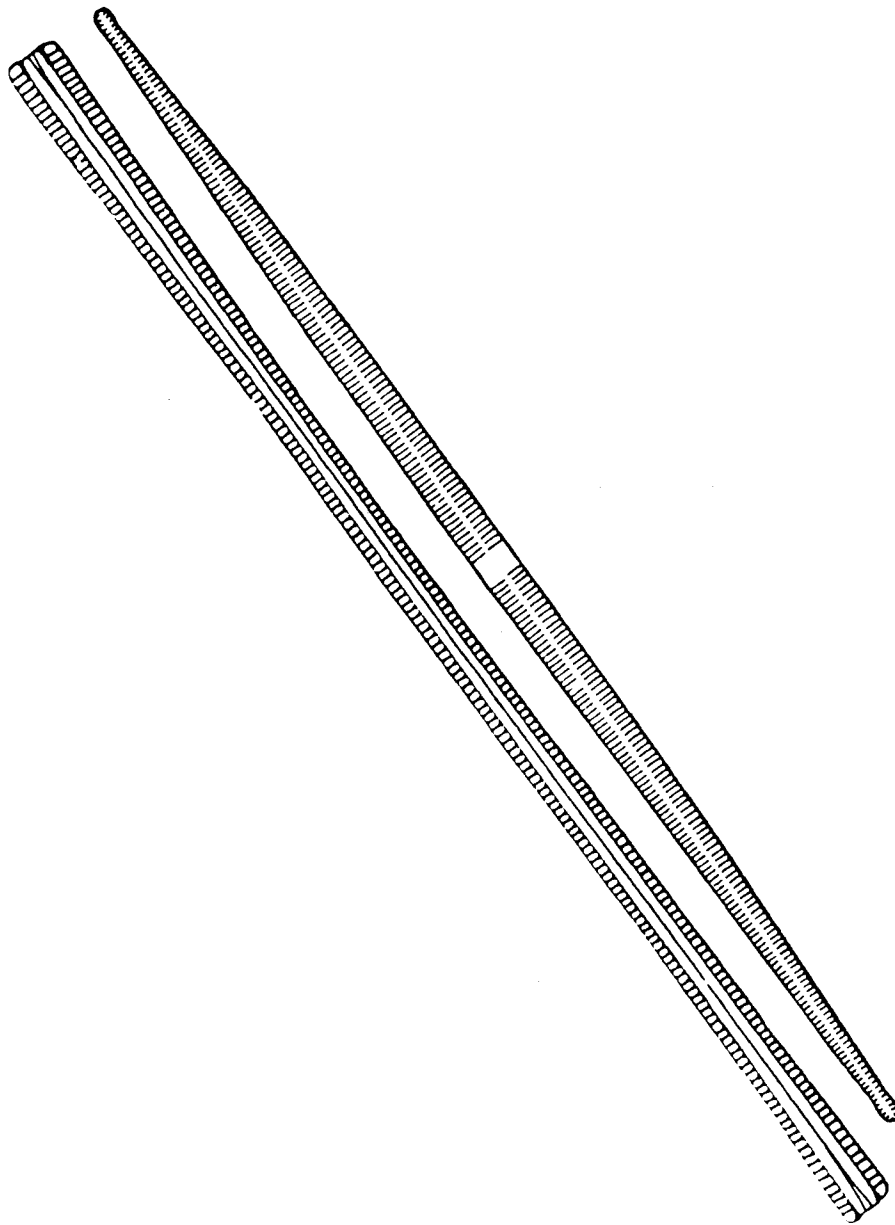


Species: *Synedra ulna* (Nitzsch) Ehrenberg

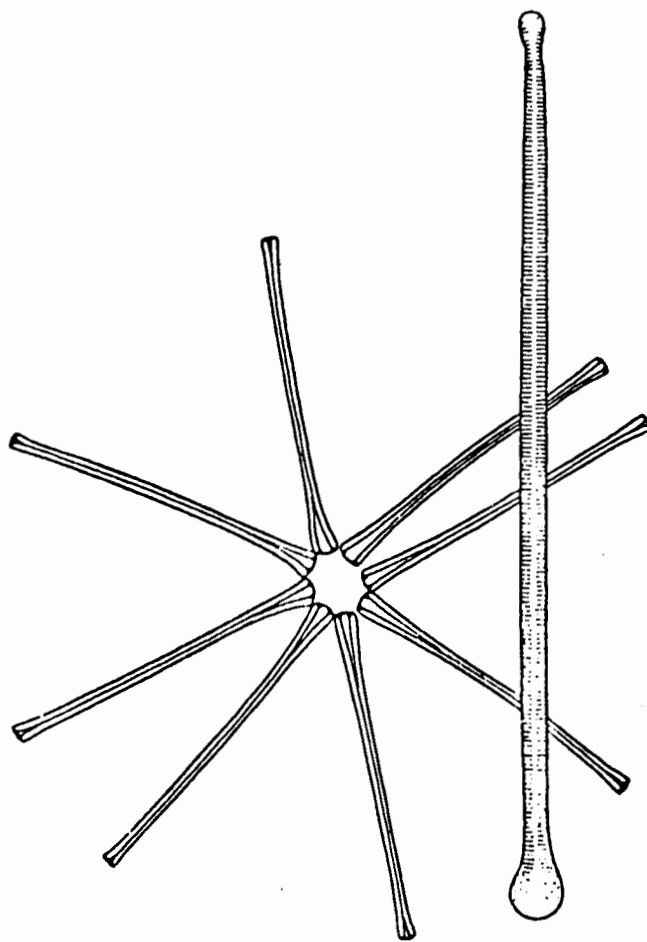
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 151.

Location: Erickson Lakes

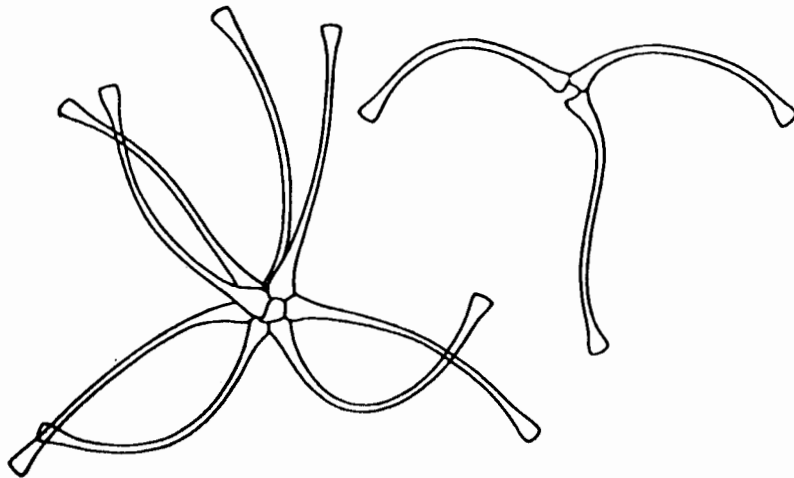
Size: Cell - length 50-350 μ
- width 5-9 μ



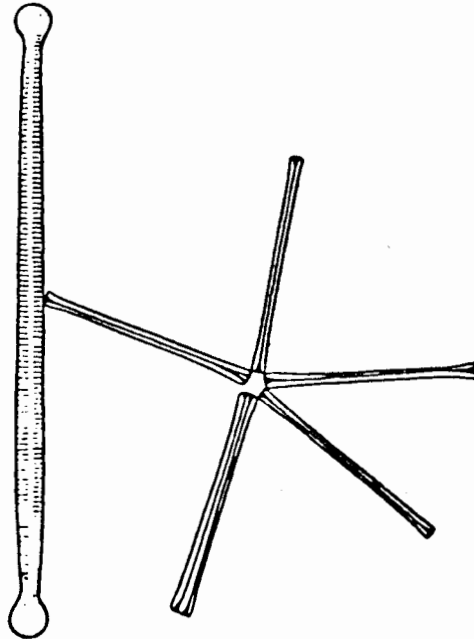
- Species: *Asterionella formosa* Hassall
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 142.
- Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake
- Size: Cell - length 40-130 μ
- width 1-2 μ



- Species: *Asterionella formosa* var. *acaroidea* Lemmermann
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 147.
- Location: Experimental Lakes Area (summer, fall)
- Size: Cell - length 40-130 μ
- width 1-2 μ



- Species: *Asterionella gracillima* (Hantzsch) Hassall
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 147.
- Location: Experimental Lakes Area (summer, fall)
Erickson Lakes
Southern Indian Lake
Saqvaqjuac
- Size: Cell - length 35-90 μ
- width 2-3 μ



Species: *Naviola radioa* Kuetzing

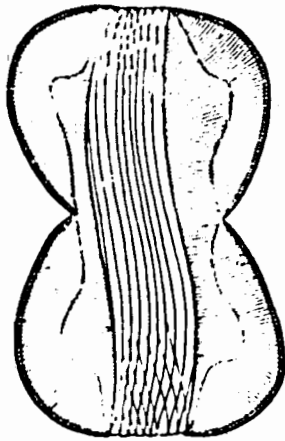
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 299.

Location: Southern Indian Lake

Size: Cell - length 40-120 μ
- width 10-19 μ



- Species: *Amphiprora alata* Kuetzing
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 340.
- Location: Erickson Lakes
- Size: Cell - length 60-160 μ
- width 30-60 μ



- Species: *Eunotia faba* (Ehrenberg) Grunow
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Rascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 183.
- Location: Erickson Lakes
- Size: Cell - length 26-60 μ
- width 5-8 μ

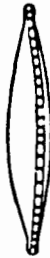


Species: *Nitzschia dissipata* (Kuetzing) Grunow

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 412.

Location: Lake Winnipeg
Southern Indian Lake

Size: Cell - length 15-70 μ
- width 4-7 μ

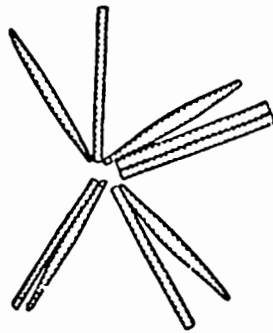


Species: *Nitzschia holentia* Hustedt

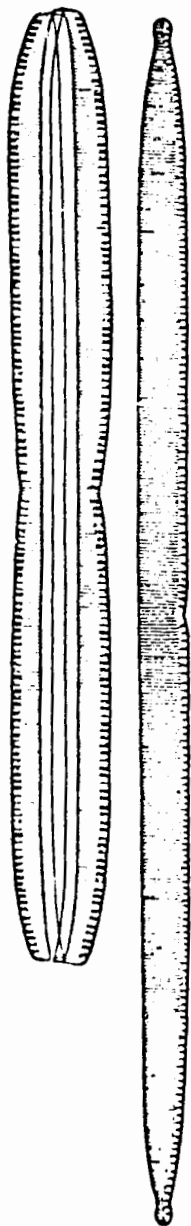
Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 416.

Location: Erickson Lakes

Size: Cell - length 20-55 μ
- width 1.5-2 μ



- Species: *Nitzschia linearis* W. Smith
- Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 409.
- Location: Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 70-180 μ
- width 5-6 μ

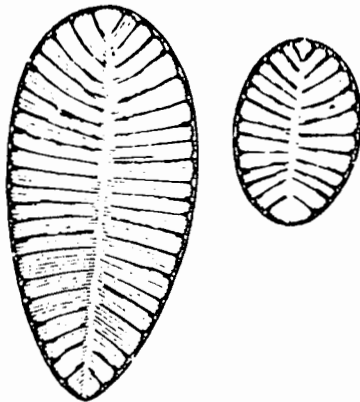


Species: *Surirella ovata* Kuetzing

Key: Hustedt, F. 1930. Bacillariophyta (Diatomeae).
Pascher, A. Prof. Dr. Die Süßwasser-Flora
Mitteleuropas. Heft 10. Zweite Auflage.
Fischer. Jena. Page 422.

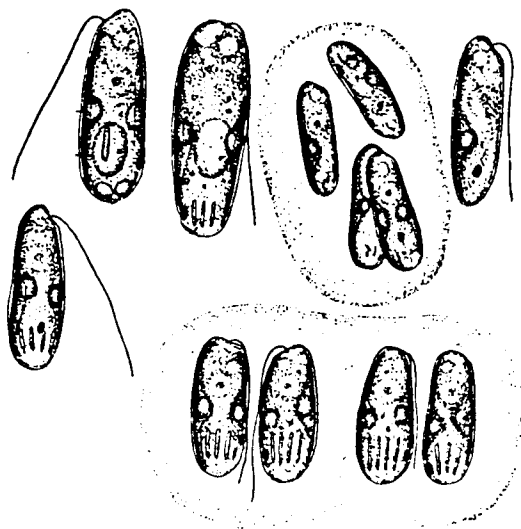
Location: Erickson Lakes

Size: Cell - length 70 μ
- width 8-23 μ



CRYPTOPHYCEAE

- Species: *Monomastix opisthoutigma* Scherffel
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. I
- Location: Experimental Lakes Area (summer)
Lake Winnipeg
Southern Indian Lake
Saqvaqujac
- Size: Cell - length 14-21 μ
- width 5.5-9.6 μ
- thickness 5-8 μ

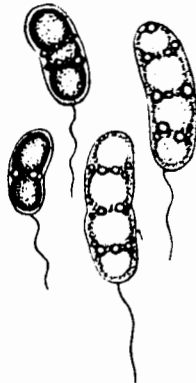


Species: *Macromonas bipunctata* (Gicklhorn) Utermohl and Koppe

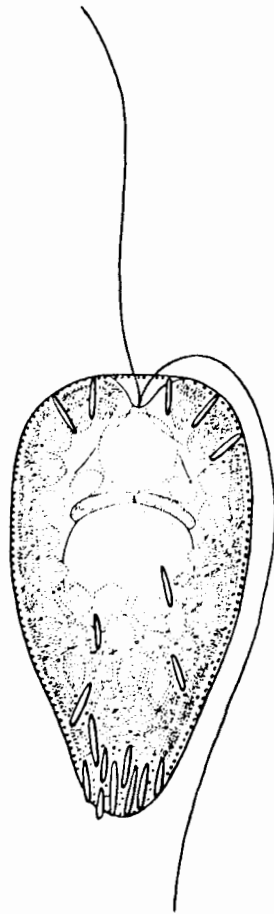
Key: Skuja, H. 1948. Taxonomie des Phytoplankton einiger Seen
in Uppland, Schweden. Symb. Bot. Ups. IX. Taf. 1.

Location: Char Lake

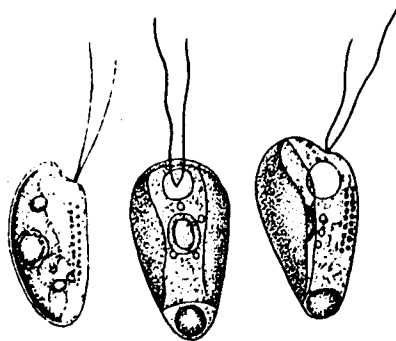
Size: Cell - length 7-23 μ
- width 3-6 μ



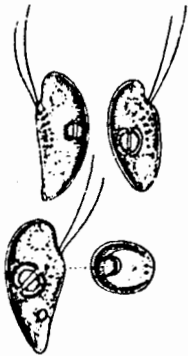
- Species: *Gonyostomum semen* (Ehrenberg) Diesing
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3
Page 89.
- Location: Experimental Lakes Area (spring, summer, fall)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 40-80 μ
- width 30-60 μ



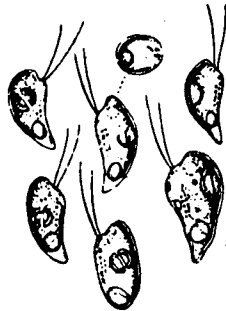
- Species: *Rhodomonas lacustris* Pascher and Ruttner
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. II.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg Char Lake
Erickson Lakes
Southern Indian Lake
Saqvaqjuac
- Size: Cell - length 10-13 μ
- width 5-8 μ



- Species: *Rhodomonas minuta* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. II
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Erickson Lakes
Southern Indian Lake
Char Lake
- Size: Cell - length 9-14 μ
- width 4-7 μ



- Species: *Rhodomonas minuta* var. *nannoplanctica* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. II.
- Location: Experimental Lakes Area (spring, summer, fall)
Lake Winnipeg
Southern Indian Lake
Erickson Lakes
Char Lake
- Size: Cell - length 8-9 μ
- width 5-6 μ

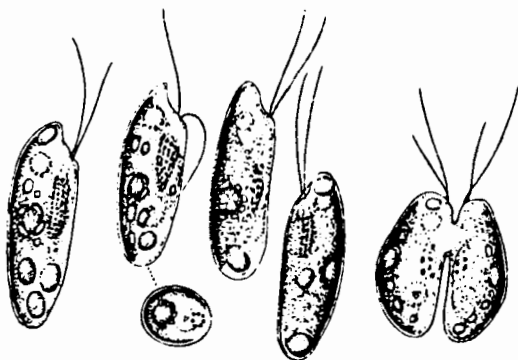


Species: *Rhodomonas tenuis* Skuja

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. II.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake

Size: Cell - length 15-23 μ
- width 6-9.5 μ



- Species: *Chroomonas acuta* Utermohl
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. III.
- Location: Erickson Lakes
- Size: Cell - length 7-10 μ
- width 4.5-5.5 μ
- Note: During *Aphaniomenon* bloom, confused with *Rhodomonas*
minuta.

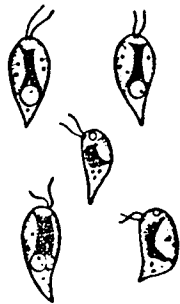


Species: *Chroomonas brevicilata* Nygaard

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Page 35.

Location: Erickson Lakes

Size: Cell - length 14-18 μ
- width 5-7 μ

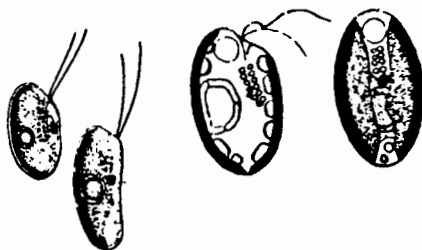


Species: *Chroomonas coerulea* (Geitler) Skuja

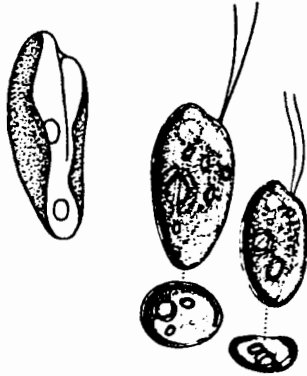
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. III.

Location: Experimental Lakes Area (winter, spring)

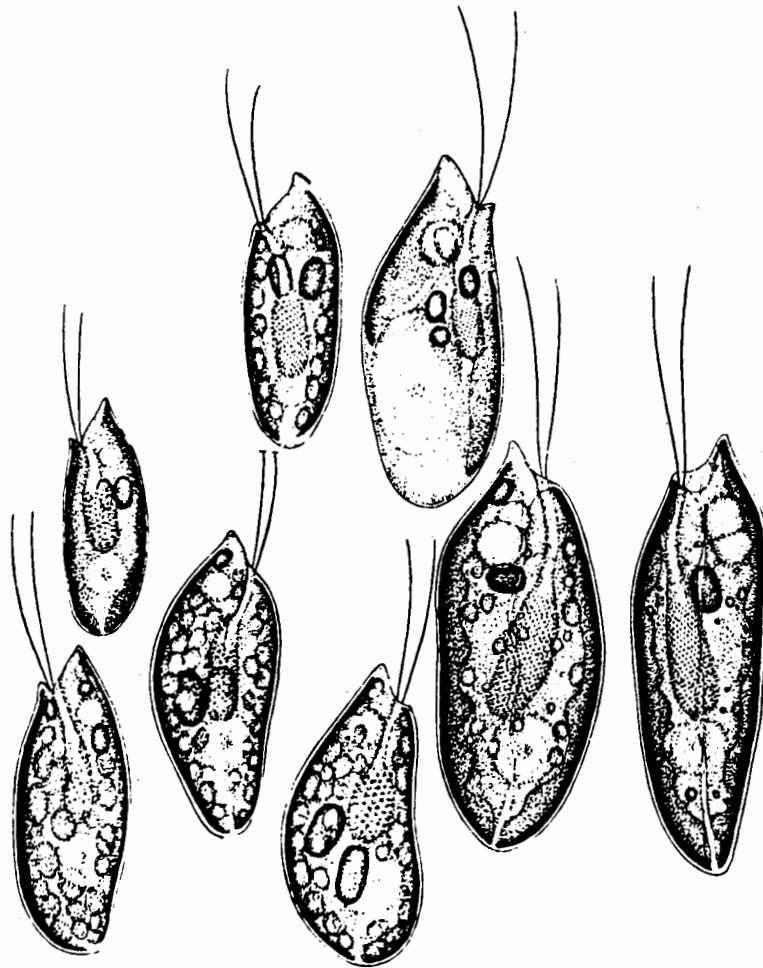
Size: Cell - length 8-12 μ
- width 4-6 μ



- Species: *Chroomonas Nordstedtii* Hansgirg
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. III.
- Location: Experimental Lakes Area (winter, spring)
- Size: Cell - length 8-20 μ
- width 5-10 μ
- thickness 2-8 μ



- Species: *Cryptomonas borealis* Skuja
- Key: Skuja, H. 1956. Taxonomische und Biologische Studien über das Phytoplankton Schwedischer Binnengewässer. Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 16. No. 3. Taf. LX.
- Location: Experimental Lakes Area
Lake Winnipeg
Southern Indian Lake
Char Lake
- Size: Cell - length 20-50 μ
- width 9-20 μ



Species: *Cryptomonas erosa* Ehrenberg

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. V.

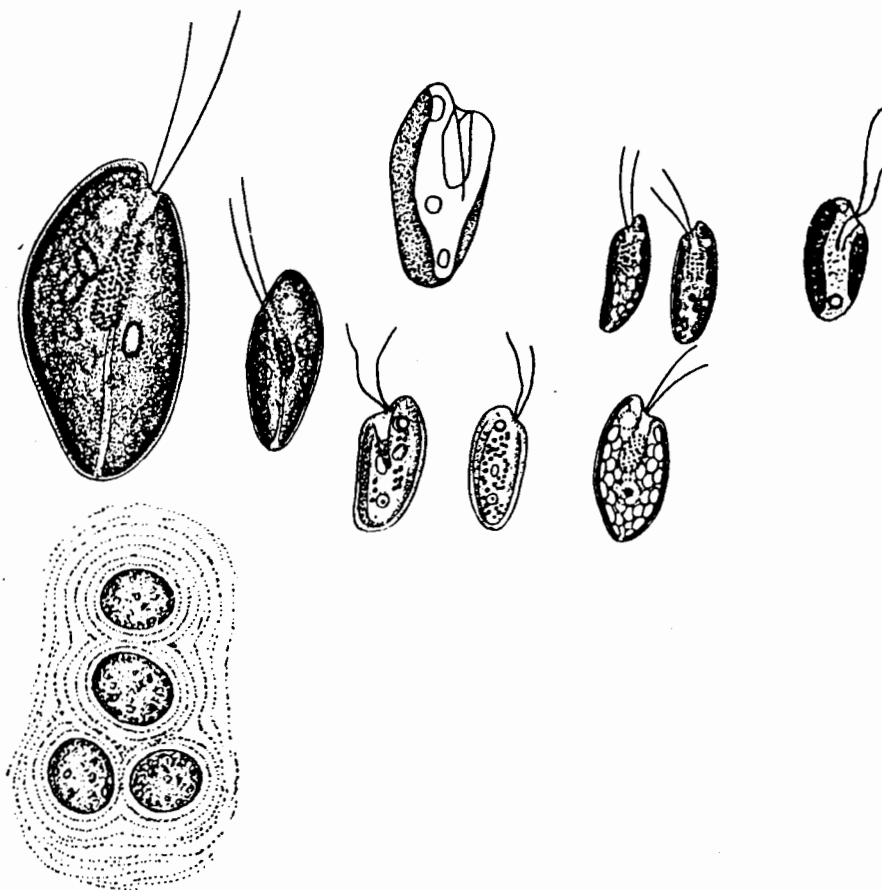
Location: Experimental Lakes Area (all year)

Erickson Lakes

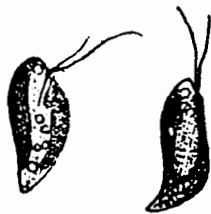
Lake Winnipeg

Southern Indian Lake

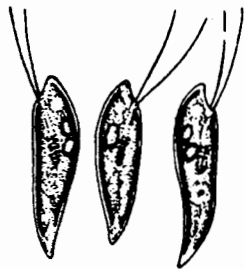
Size: Cell - length 13-45 μ
- width 6-26 μ
- thickness 6-17 μ



- Species: *Cryptomonas erosa* var. *reflexa* Mårsson
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. V.
- Location: Erickson Lakes (summer, fall)
- Size: Cell - length 16-20 μ
- width 8-14 μ
- Note: Appeared at Erickson during *Aphanizomenon* bloom.



- Species: *Cryptomonas gracilis* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3,
Taf. VII.
- Location: Experimental Lakes Area (winter, spring)
- Size: Cell - length 15-19 μ
- width 4.5-6 μ



Species: *Cryptomonas lucida* Skuja

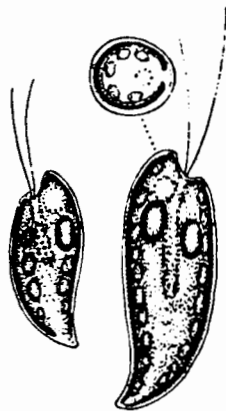
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VI.

Location: Erickson Lakes

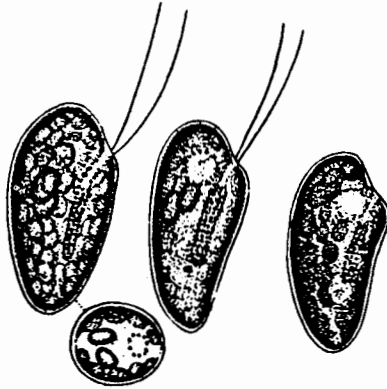
Size: Cell - length 10-18 μ
- width 5-7 μ
- thickness 3-6 μ



- Species: *Cryptomonas Marssonii* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VII.
- Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 16-33 μ
- width 8-14 μ



- Species: *Cryptomonas obovata* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. V.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Erickson Lakes
Southern Indian Lake
Char lake
- Size: Cell - length 24-46 μ
- width 13-24 μ
- thickness 13-20 μ

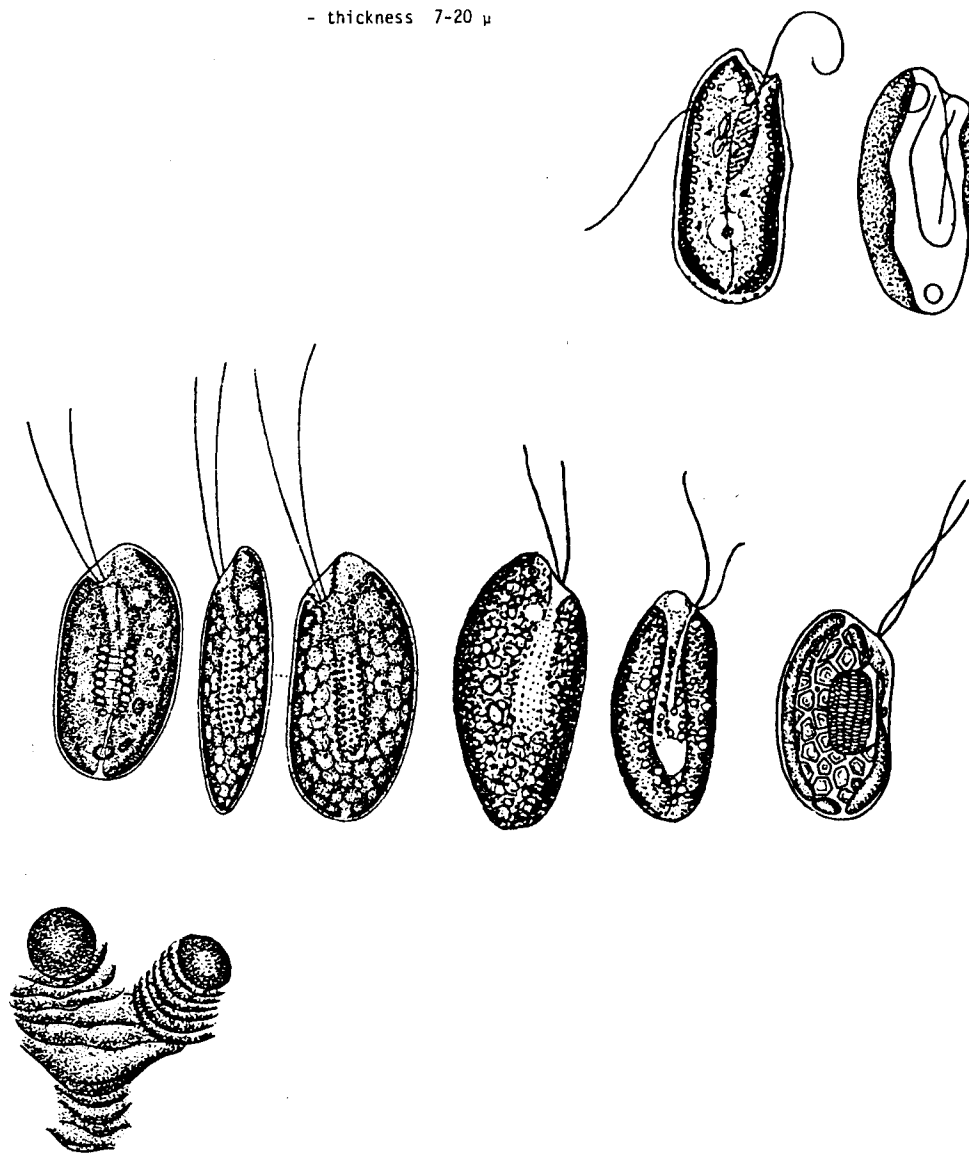


Species: *Cryptomonas ovata* Ehrenberg

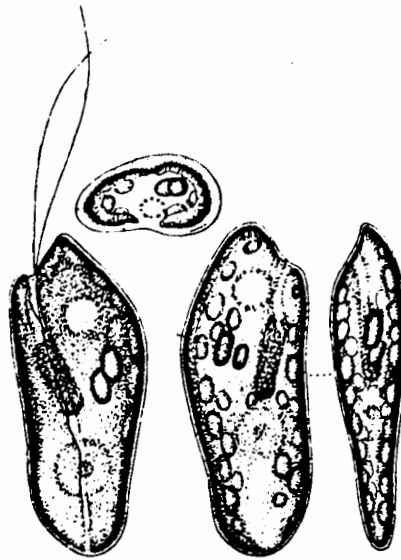
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. IV.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Erickson Lakes
Southern Indian Lake

Size: Cell - length 14-68 μ
- width 8-26 μ
- thickness 7-20 μ



- Species: *Cryptomonas platyuris* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VI.
- Location: Experimental Lakes Area (spring, summer, fall)
Saqvaqjuac
- Size: Cell - length 31-50 μ
- width 15-24 μ
- thickness 9-14 μ



Species: *Cryptomonas pusilla* Bachmann

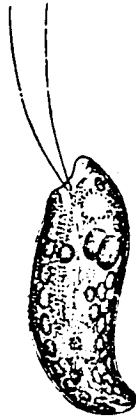
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VI.

Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake

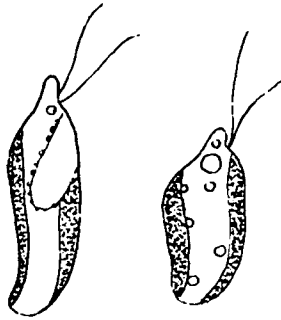
Size: Cell - length 7-9 μ
- width 5 μ



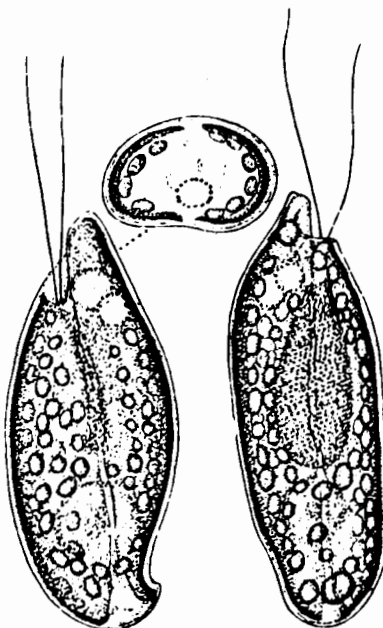
- Species: *Cryptomonas reflexa* (Marsson) Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VII.
- Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 30-46 μ
- width 14-19 μ
- thickness 10-16 μ
- Note: May be larger form of *C. erosa* var. *reflexa*.
Appeared at Erickson during *Aphanizomenon* bloom.



- Species: *Cryptomonas rostrata* (Troitzk) Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VII.
- Location: Experimental Lakes Area (spring)
- Size: Cell-length 48-58 μ
- width 18-28 μ



- Species: *Cryptomonas rostratiformis* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf VI.
- Location: Experimental Lakes Area (spring, summer, fall)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 48-60 μ
- width 16-26 μ
- thickness 14-19 μ

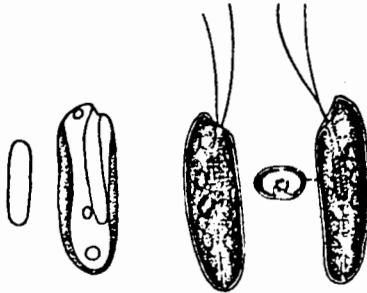


Species: *Cryptomonas tenuis* Pascher

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VI.

Location: Experimental Lakes Area (summer)

Size: Cell - length 8-14 μ
- width 2-4 μ
- thickness 5-7 μ

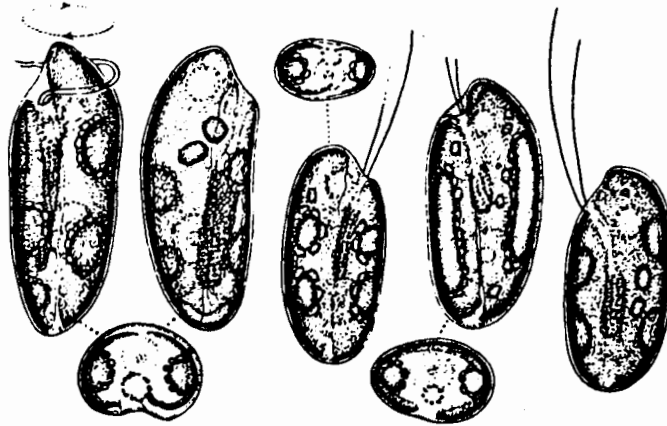


Species: *Cryptomonas tetrapyrrenoidosa* Skuja

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. VII.

Location: Erickson Lakes

Size: Cell - length 20-49 μ
- width 10-27 μ
- thickness 5-17 μ

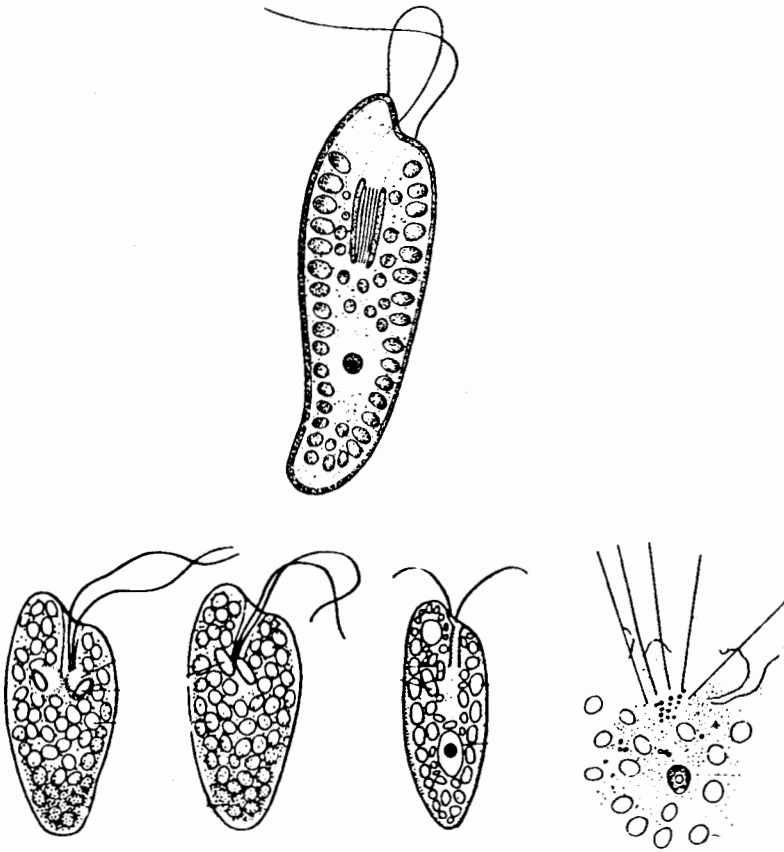


Species: *Chilomonas Parwanacium* Entz

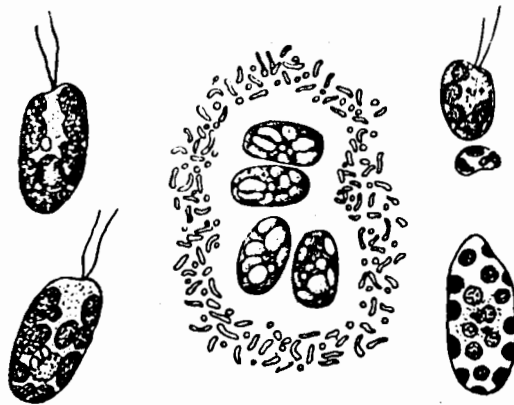
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. IX.

Location: Experimental Lakes Area (summer)

Size: Cell - length 20-40 μ
- width 10-16 μ



- Species: *Cyanomonas americana* (Davis) Oltmanns
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. IV.
- Location: Lake Winnipeg
- Size: Cell - length 8-10 μ
- width 5-6 μ



- Species: *Katablepharis ovalis* Skuja
- Key: Skuja, H. 1964. Grundzüge der Algenflora und Algenvegetation der Fjeldgegenden um Abisko in Schwedisch-Lappland. Nova Acta Regiae Soc. Sci. Ups. Ser. IV. Vol. 18. No. 3. Taf. LXVI.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake Char Lake
Erickson Lakes
Yellowknife area
Lake Winnipeg
- Size: Cell - length 8-14 μ
- width 3-8 μ

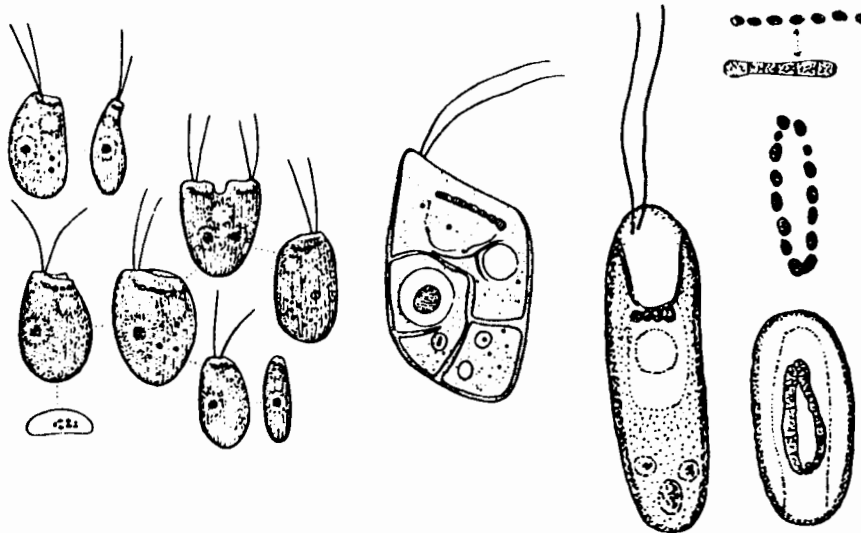


Species: *Cyathomonas truncata* (Fres.) Fisch

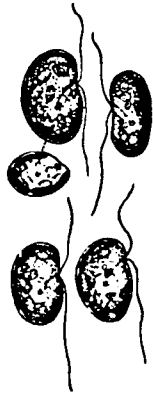
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. X

Location: Southern Indian Lake
Erickson Lakes

Size: Cell length 8-10 μ



- Species: *Sennia parvula* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. X.
- Location: Experimental Lakes Area (spring)
Lake Winnipeg
Char Lake
- Size: Cell - length 5-9 μ
- width 3-6 μ
- thickness 2-4 μ



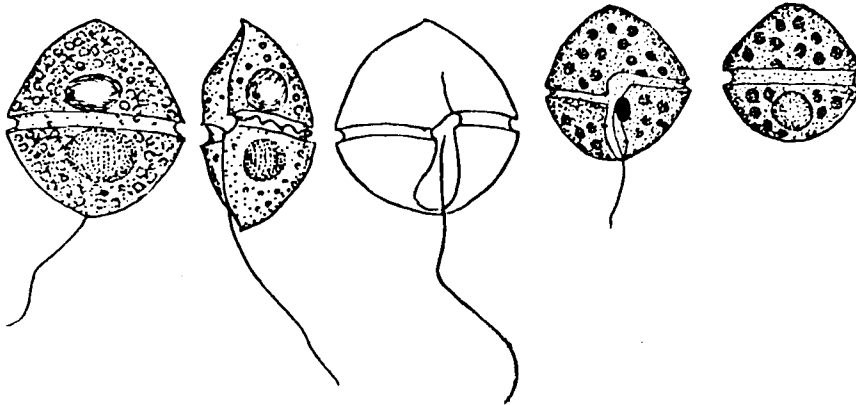
- Species: *Cryptaulax vulgaris* Skuja
- Key: Skuja, H. 1948. Taxonomie des Phytoplanktons
Einiger Seen in Uppland, Schweden. Symb. Bot.
Ups. IX. Taf. XXXVIII.
- Location: Experimental Lakes Area (all year)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 13-19 μ
- width 5-12 μ





PERIDINEAE

- Species: *Glenodinium gymmodinium* Penard
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XXVII.
- Location: Experimental Lakes Area (spring)
Yellowknife area
Erickson Lakes
- Size: Cell - length 40 μ
- width 35 μ

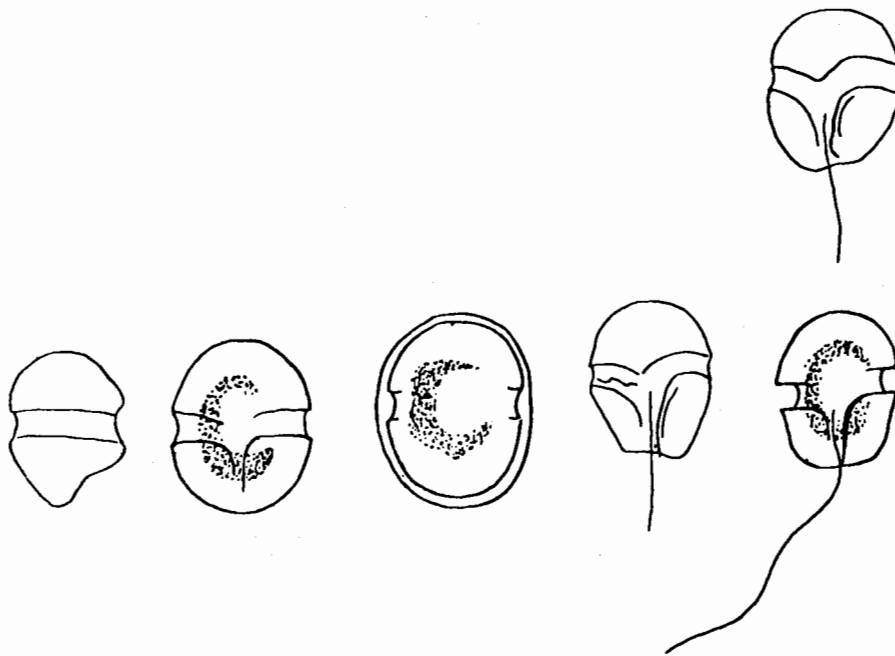


Species: *Glenodinium Paboheri* Suchlandt

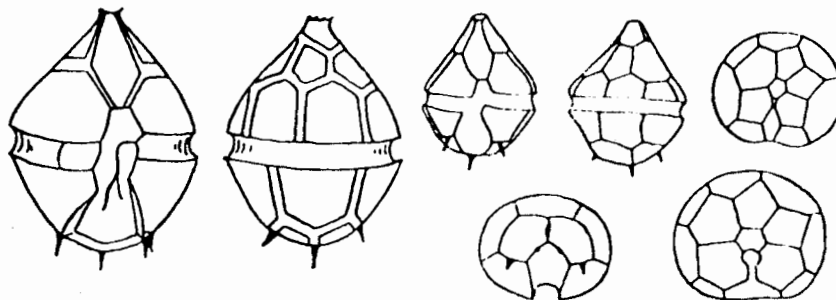
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XXII.

Location: Experimental Lakes Area (winter)
Yellowknife area
Lake Winnipeg
Southern Indian Lake
Char Lake

Size: Cell - length 18-35 μ
- width 30 μ



- Species: *Peridinium aciculiferum* Lemmermann
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLI.
- Location: Experimental Lakes Area (all year)
Southern Indian Lake Char Lake
Yellowknife area
Lake Winnipeg
Saqvaqjuac
- Size: Cell - length 35-51 μ
- width 29-42 μ

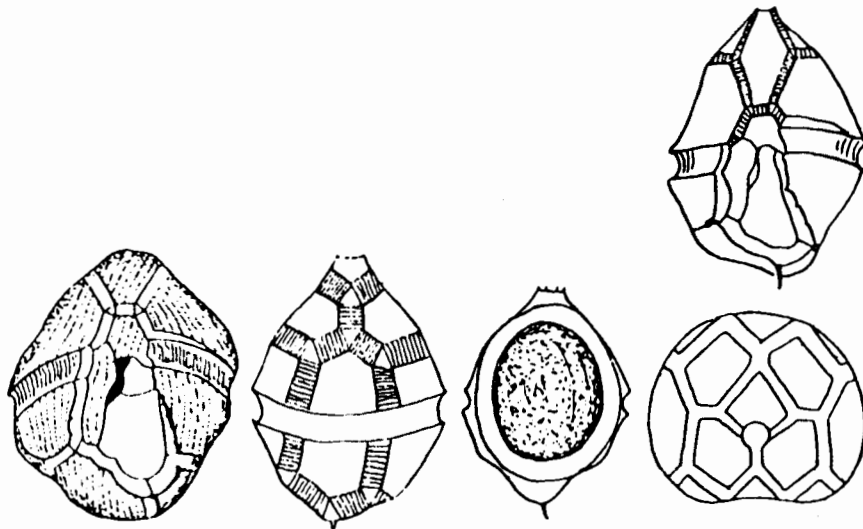


Species: *Peridinium africanum* var. *remotum* fa. *tatrisium*
(Woloszynska) Lefevre

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLIX.

Location: Experimental Lakes Area (summer, fall)

Size: Cell - length 35-40 μ
- width 30 μ

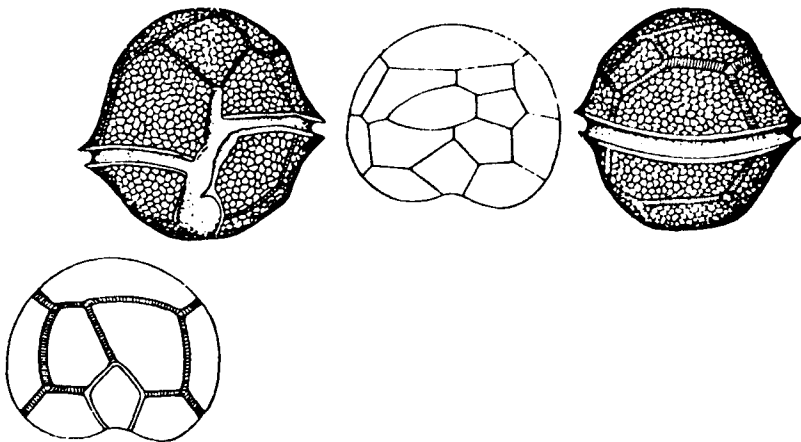


Species: *Peridinium cinctum* Ehrenberg

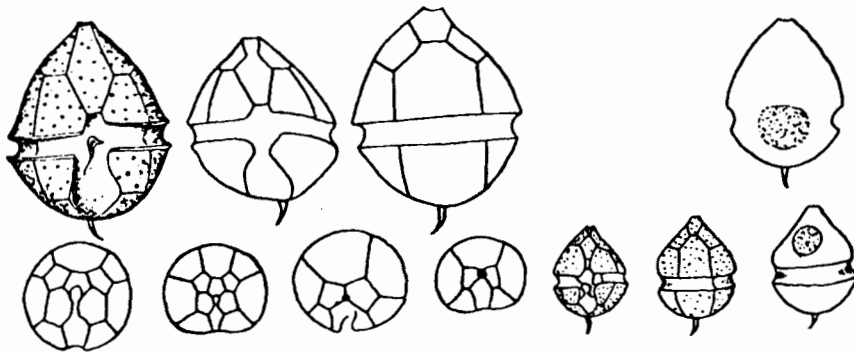
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XXXIV.

Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg

Size: Cell - length 45-60 μ
- width 35-55 μ



- Species: *Peridinium goblaviense* Woloszynska
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLIX.
- Location: Experimental Lakes Area (summer, fall)
Clear Lake (Riding Mountain National Park, Manitoba)
Saqvaqujac
- Size: Cell - length 20-30 μ
- width 16-18 μ



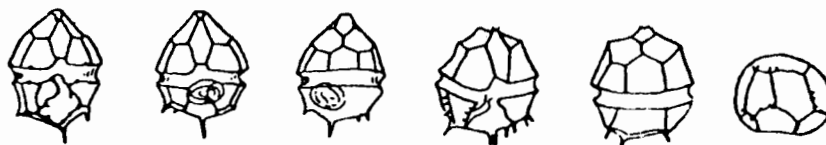
Species: *Peridinium inconspicuum* Lemmermann tab. remotum fa.

epiniferum

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLVI.

Location: Experimental Lakes Area (summer, fall)
Erickson Lakes
Clear Lake (Riding Mountain National Park, Manitoba)
Lake Winnipeg
Yellowknife area
Saqvaqjuac

Size: Cell - length 15-30 μ
- width 12-25 μ

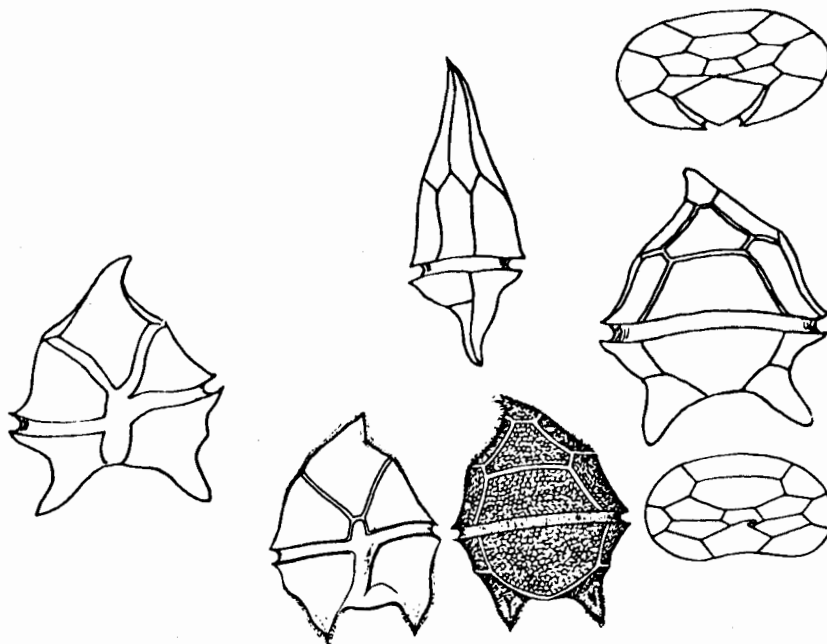


Species: *Peridinium limbatum* (Stokes) Lemmermann

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3
Taf. XL.

Location: Experimental Lakes Area (summer, fall)

Size: Cell - length 83-84 μ
- width 64-66 μ

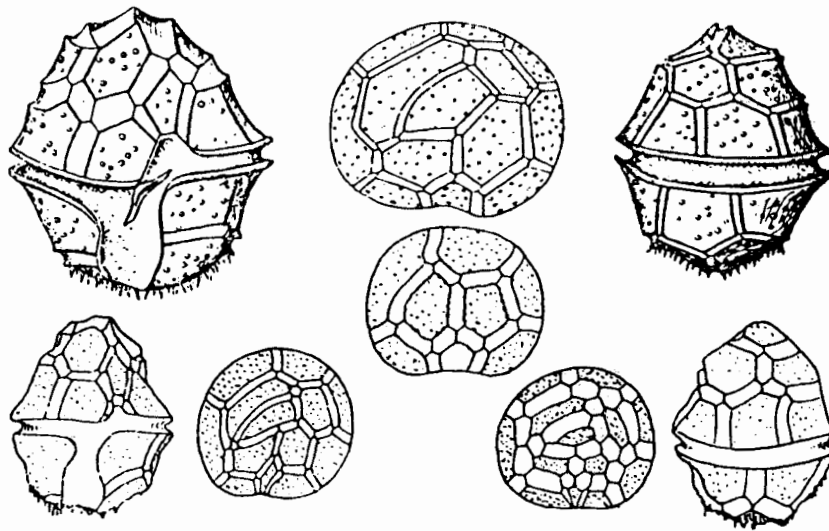


Species: *Peridinium palatinum* Lauterborn

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band. XVI. Teil 3.
Taf. XXXVIII.

Location: Saqvaqujac (summer)

Size: Cell - length 30-55 μ
width 28-50 μ

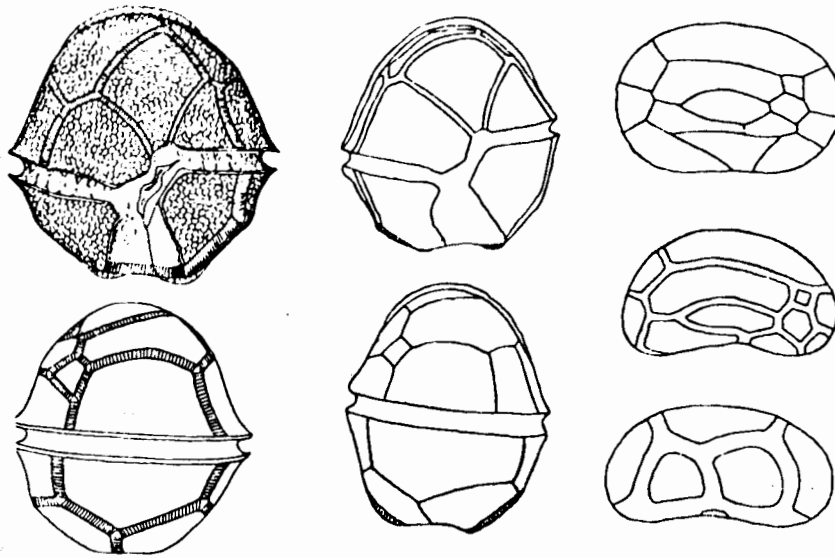


Species: *Peridinium palustris* (Lindemann) Lefèvre

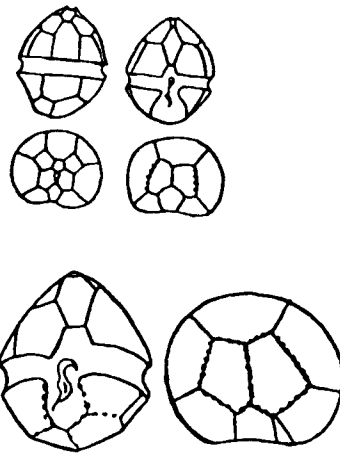
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XXXVI.

Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg

Size: Cell - length 45-80 μ
- width 55-80 μ



- Species: *Peridinium pusillum* (Penard) Lemmermann
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLVII.
- Location: Experimental Lakes area (spring, summer, fall)
Yellowknife area
Southern Indian Lake
- Size: Cell - length 18-25 μ
- width 13-20 μ

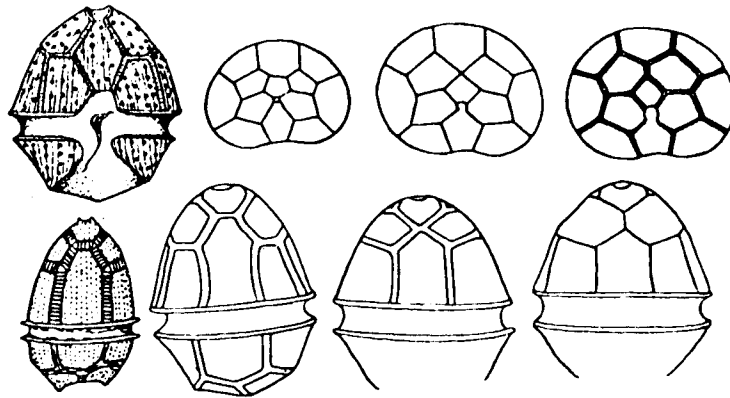


Species: *Peridinium umbonatum* Stein

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLIV.

Location: Experimental Lakes Area (summer)

Size: Cell - length 25-40 μ
- width 25-40 μ

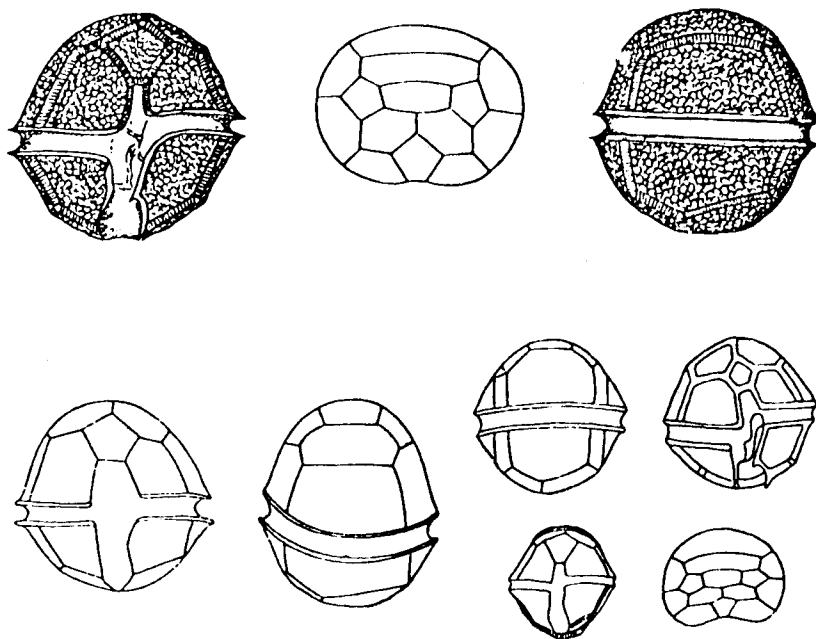


Species: *Peridinium Volzii* Lemmermann

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XXX.

Location: Experimental Lakes Area (summer)

Size: Cell - length 38-52 μ
- width 38-52 μ

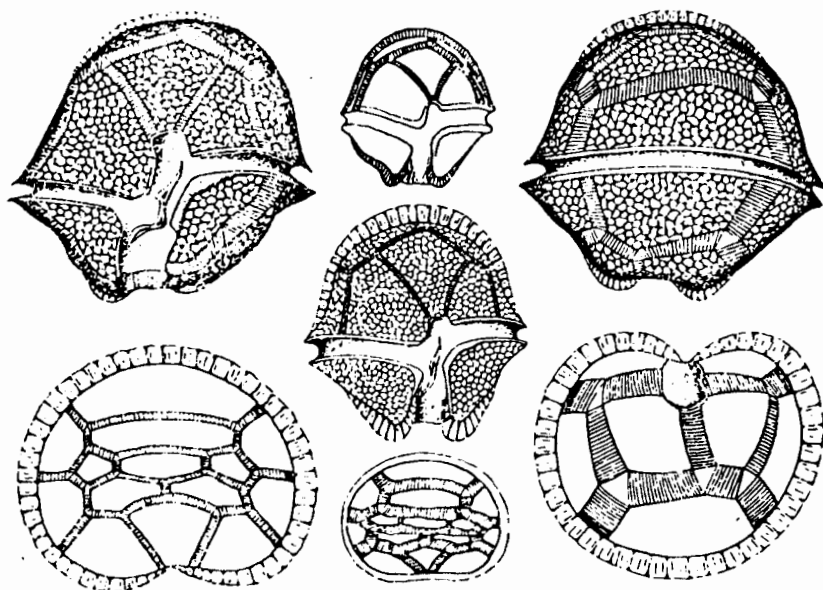


Species: *Peridinium Willai* Huitfeldt-Kaas

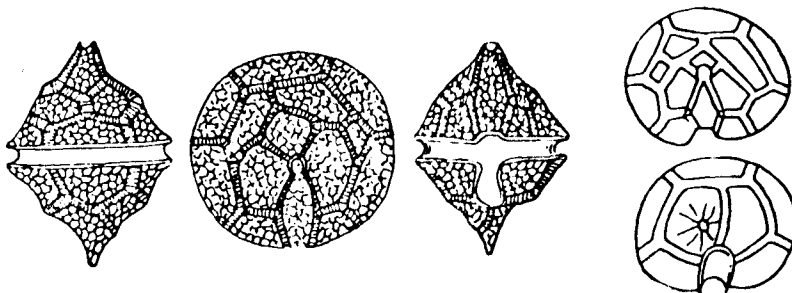
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XXIX.

Location: Experimental Lakes Area (all year)
Yellowknife area
Pelican Lake, prairie lake (Manitoba)
Lake Winnipeg
Clear Lake (Riding Mountain National Park, Manitoba)
Southern Indian Lake
Saqvaqjuac
Char Lake

Size: Cell - length 40-60 μ
- width 45-70 μ



- Species: *Peridinium wisconsinense* Eddy
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XLIV.
- Location: Experimental Lakes Area (summer, fall)
Pelican Lake, prairie lake (Manitoba)
Lake Winnipeg
Char Lake
- Size: Cell - length 55-64 μ
- width 48-56 μ

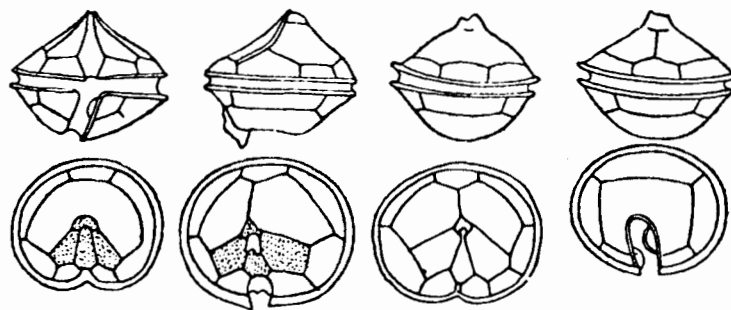


Species: *Diplopsalis acuta* Entz

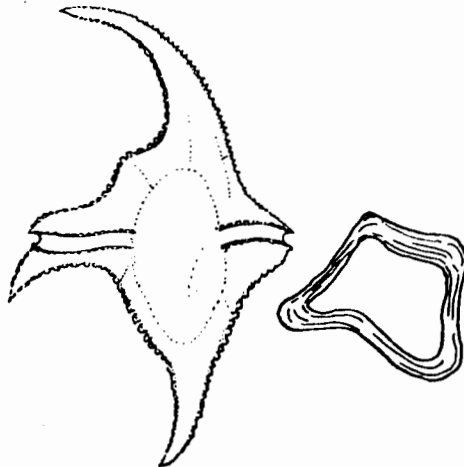
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. LVII.

Location: Lake Winnipeg

Size: Cell - length 30-39 μ
- width 26-27 μ



- Species: *Ceratium carolinianum* (Bailey) Jörgensen
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. LXI.
- Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg
Erickson Lakes
Southern Indian Lake
- Size: Cell - length 125-156 μ
- width 72-105 μ



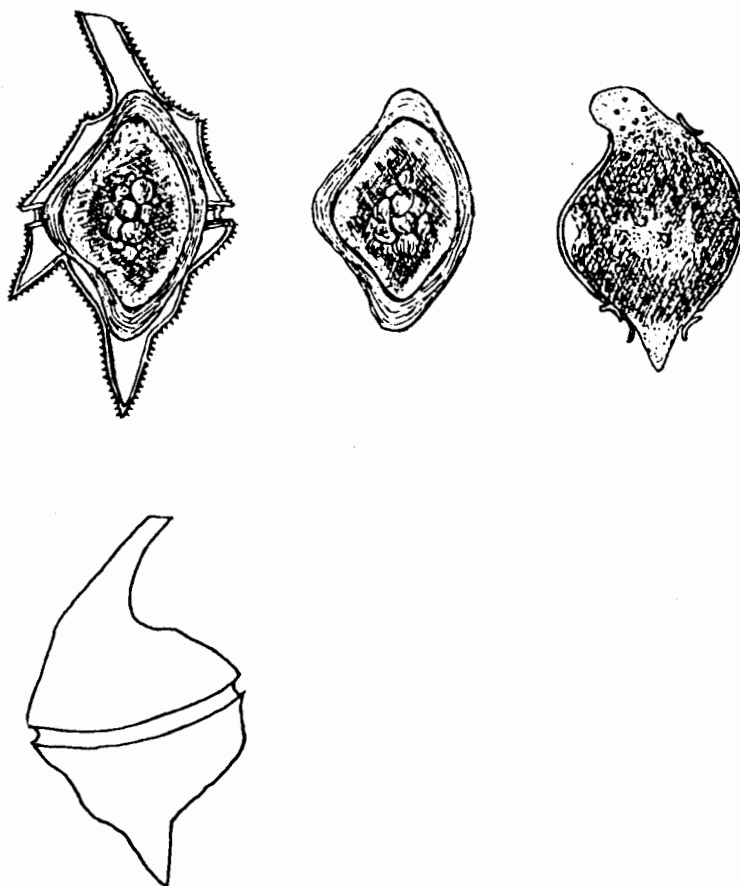
Species: *Ceratium cornutum* (Ehrenberg) Claparède and Lachmann

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. LXI.

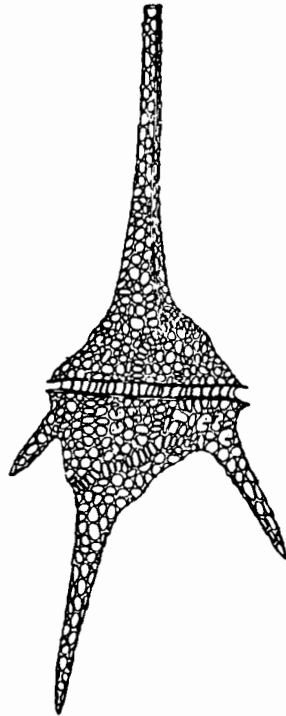
Skuja, H. 1964. Grundzüge der Algenflora und Algen-
vegetation des Fjeldgegenden um Abisko in Schwedisch-
Lappland. Nova Acta Regiae Soc. Sci. Ups. Ser. IV.
Vol. 18. No. 3. Taf. LXVIII.

Location: Experimental Lakes Area (summer, fall)
Lake Winnipeg

Size: Cell - length 97-150 μ
- width 48-75 μ



- Species: *Ceratium hirundinella* (Mueller) Schrank
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3
Taf. LVIII.
- Location: Experimental Lakes Area (all year)
Erickson Lakes
Lake Winnipeg
Southern Indian Lake
Char Lake
- Size: Cell - length 90-450 μ

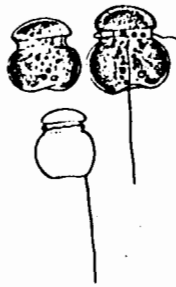


Species: *Amphidinium luteum* Skuja

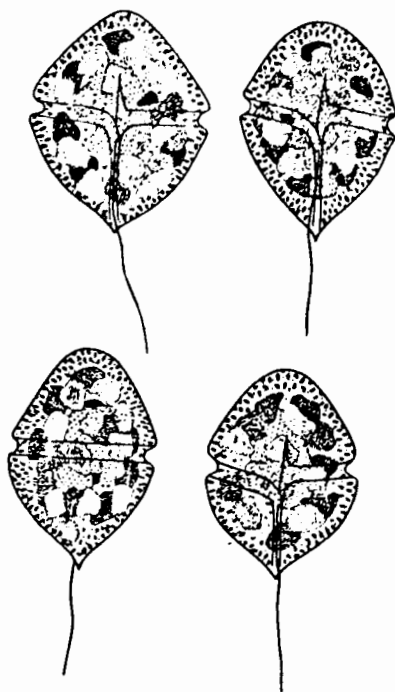
Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XI.

Location: Experimental Lakes Area (all year)
Southern Indian Lake
Saqvaqujac

Size: Cell - length 11-13 μ
- thickness 8-10 μ



- Species: *Gymnodinium acidotum* Nygaard
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XV.
- Location: Yellowknife area (summer)
Erickson Lakes
- Size: Cell - length 33-37 μ
- width 24-30 μ

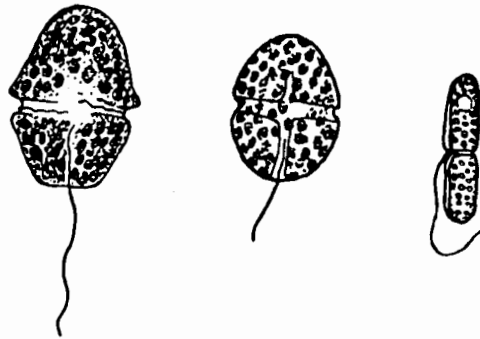


Species: *Gymnodinium aërugineum* Stein

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XV.

Location: Yellowknife area

Size: Cell - length 33-34 μ
- width 21-22 μ

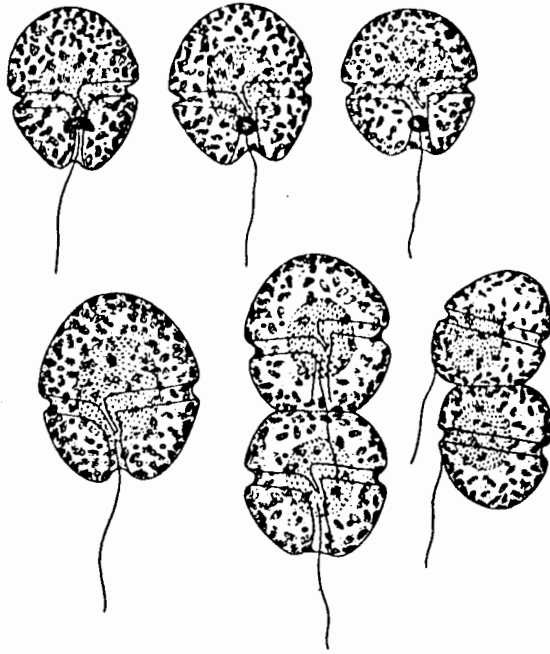


Species: *Gymnodinium excavatum* Nygaard

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XVI.

Location: Yellowknife area

Size: Cell - length 26-42 μ
- width 21-34 μ

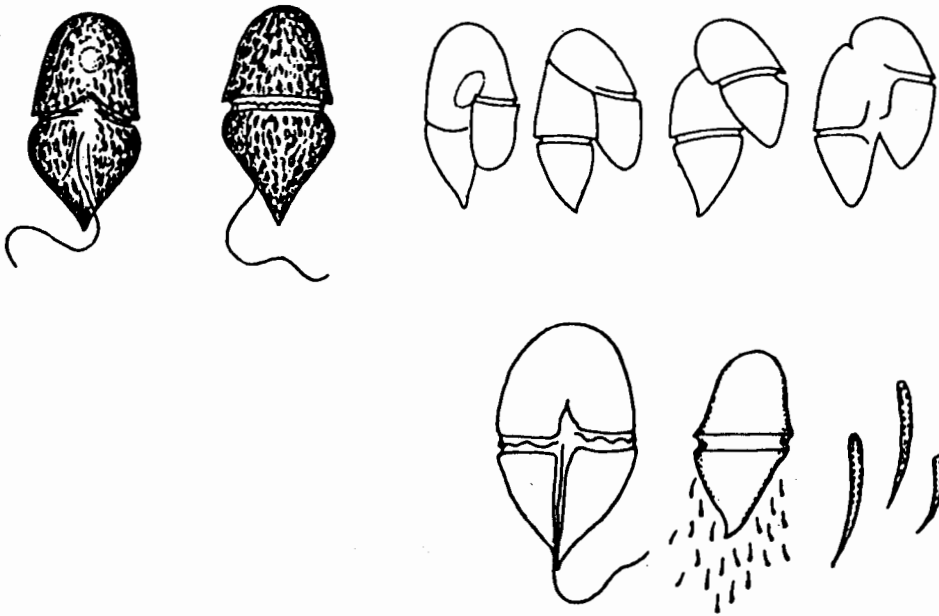


Species: *Gymnodinium fuscum* (Ehrenberg) Stein

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XII.

Location: Experimental Lakes Area (spring, summer)

Size: Cell - length 80-100 μ
- width 55-60 μ

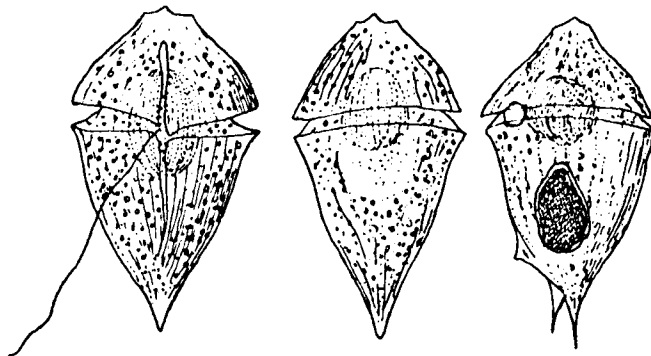


Species: *Gymnodinium helveticum* Penard

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XX.

Location: Experimental Lakes Area (all year)
Lake Winnipeg
Char Lake
Yellowknife area
Saqqajjuac
Clear Lake (Riding Mountain National Park, Manitoba)
Southern Indian Lake

Size: Cell - length 50 μ
- width 30 μ

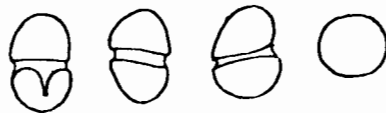


Species: *Gymnodinium laouatre* Schiller

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XIX.

Location: Experimental Lakes Area (spring, summer, fall)
Char Lake

Size: Cell - length 17-18 μ
- width 10 μ

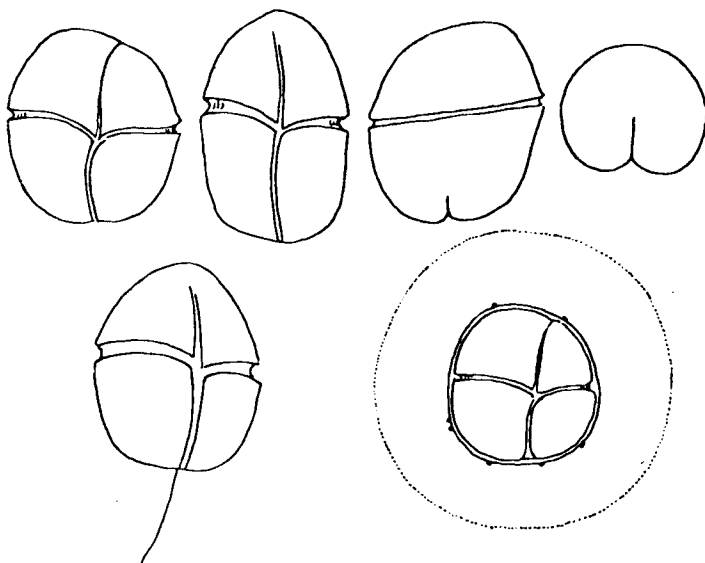


Species: *Gymnodinium limneticum* Woloszynska

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XIX.

Location: Experimental Lakes Area (summer)

Size: Cell - length 30-40 μ
- width 30-40 μ



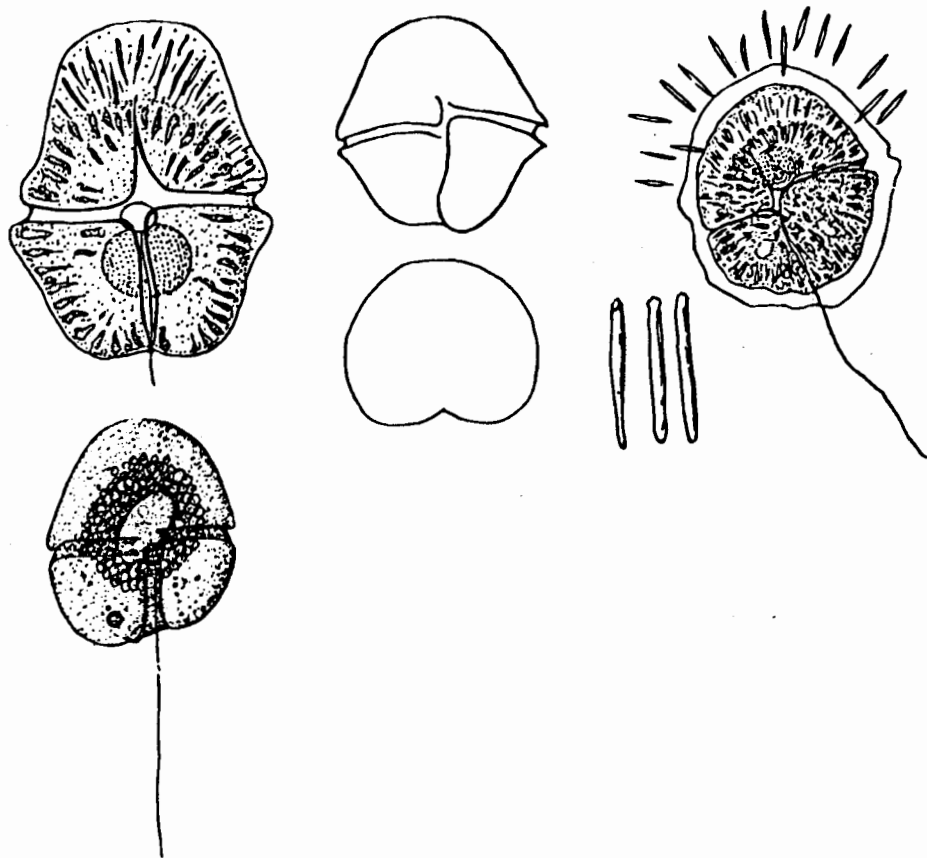
Species: *Gymnodinium mirabile* Penard

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XIV.

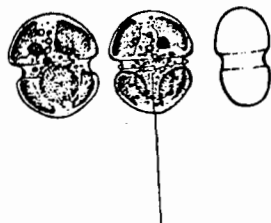
Skuja, H. 1964. Grundzüge der Algenflora und
Algenvegetation des Fjeldgegenden um Abisko in
Schwedisch-Lappland. Nova Acta Regiae Soc. Sci.
Ups. Ser. IV. Vol. 18. No. 3. Taf. LXVII.

Location: Experimental Lakes Area (summer)
Saqvaqjuac Char Lake
Southern Indian Lake

Size: Cell - length 80-90 μ
- width 65-75 μ



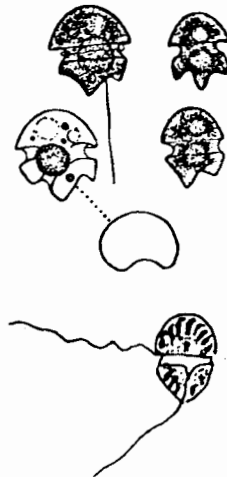
- Species: *Gymnodinium ordinatum* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI, Teil 3.
Taf. XIX.
- Location: Experimental Lakes Area (spring)
- Size: Cell - length 12-15 μ
- width 11-13 μ



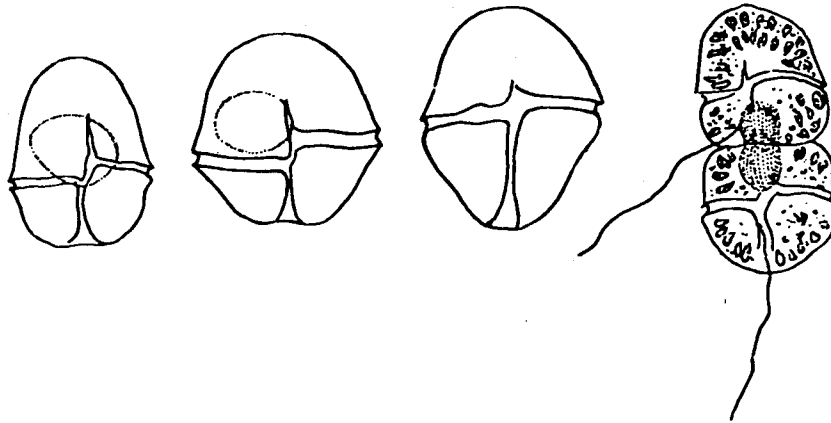
- Species: *Gymnodinium palustre* Schilling
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XV.
Skuja, H. 1964. Grundzüge der Algenflora und
Algenvegetation des Fjeldgegenden um Abisko in
Schwedisch-Lappland. Nova Acta Regiae Soc. Sci.
Ups. Ser. IV. Vol. 18. No. 3. Taf. LXVII.
- Location: Experimental Lakes Area (spring, summer, fall)
Lake Winnipeg
Southern Indian Lake
- Size: Cell - length 40-60 μ
- width 27-30 μ



- Species: *Gymnodinium triceratium* Skuja
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf XIX.
- Location: Experimental Lakes Area (spring, summer)
- Size: Cell - length 10-14 μ
- width 9-11 μ
- thickness 7-9 μ



- Species: *Gymnodinium uberrimum* (Allman) Kofoid and Swezy
- Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XV.
- Location: Experimental Lakes Area (summer)
Lake Winnipeg
Southern Indian Lake
Yellowknife Area
Saqvaqjuac
- Size: Cell - length 40-51 μ
- width 38-42 μ
- Note: *Gymnodinium viride* may be smaller form of *G. uberrimum*
35 x 25 μ .



Species: *Gymnodinium varians* Maskell

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XIX.

Location: Experimental Lakes Area (spring, summer, fall)
Char Lake
Saqvaqjuac

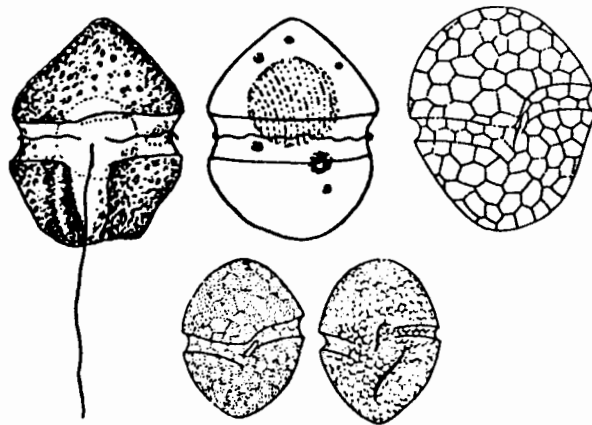
Size: Cell - length 8-17 μ
- width 6-12 μ

Species: *Gymnodinium varia* Lindeman

Key: Huber-Pestalozzi, G. 1950. Die Binnengewässer. Das
Phytoplankton des Süßwassers. Band XVI. Teil 3.
Taf. XVII.

Location: Char Lake
Southern Indian Lake

Size: Cell - length 18-30 μ
- width 28 μ



INDEX

Genera are in alphabetic order as are the species under each genus. Generic and specific names are in italics, followed by the author(s) who is considered the authority on the taxon, and the page number.

- Acanthospaera*
Zachariasi Lemmermann, 217
- Actinastrum*
Hantzschii Lagerheim, 190
- Amphidinium*
luteum Skuja, 599
- Amphiprora*
alata Kuetzing, 539
- Anabaena*
circinalis Rabenhorst, 61
flos-aquae (Lyngbye) Brebisson, 62
flos-aquae var. *intermedia* Woronichin, 63
lapponica Borge, 64
Levanderi Lemmermann, 65
macrospora Klebs, 66
Minderi Huber-Pestalozzi, 67
planctonica Brunnthaler, 68
solitaria f.a. *planctonica* Brunnthaler, 69
solitaria f.a. *solitaria* Klebs, 70
spiroides Klebs, 71
spiroides var. *crassa* Lemmermann, 72
subcylindrica Borge, 73
wisconsinense Prescott, 74
- Ankistrodesmus*
falcatus (Corda) Ralfs, 204
falcatus var. *acicularis* (A. Braun) G. S. West, 205
falcatus var. *mirabilis* (W. and G. S. West) G. S. West, 206
falcatus var. *spiralis* (Turner) Lemmermann, 207
gracilis (Reinsch) Korschikov, 208
setigerus (Schroeder) G. S. West, 209
- Ankrya*
judai (G. M. Smith) Fott, 156
- Aphanizomenon*
flos-aquae Ralfs, 59
gracile Lemmermann, 60
- Aphanocapsa*
biformis A. Braun, 12
delicatissima W. and G. S. West, 13
elachista W. and G. S. West, 14
elachista var. *planctonica* G. M. Smith, 15
Grevillei (Hassall) Rabenhorst, 16
pulchra (Kuetzing) Rabenhorst, 17
- Aphanothece*
clathrata W. and G. S. West, 18
clathrata var. *brevis* Bachmann, 19
gelatinosa (Henn.) Lemmermann, 20
microscopica Naegeli, 21
microspora (Meneghini) Rabenhorst, 22
nidulans P. Richt, 23
stagnina (Spreng) A. Braun, 24
- Arthrodesmus*
convergens Ehrenberg, 253
incus (Brebisson) Hasslow, 254
incus var. *Ralfai* W. and G. S. West, 255
incus var. *validus* W. and G. S. West, 256
sachlanii Scott and Prescott 257
triangularis Lagerheim, 258
- Asterionella*
formosa Hassall, 535
formosa var. *acaroides* Lemmermann, 536
gracillima (Hantzsch) Hassall, 537
- Attheya*
Zachariasi Brun, 517
- Barbusina*
brebissonii Kuetzing, 320
- Bicoeca*
ainikkiae Jarnefelt, 475
De Pouquesiana Bourrelly, 476
lacustris Clark, 477
multianmulata Skuja, 478
socialis Lauterborn, 479
synoica Skuja, 480
tubiformis Skuja, 481
- Bitrichia*
Chodatii (Reverdin) Chodat, 468
longispina (Lund) Bourrelly, 469
- Botryococcus*
Braunii Kuetzing, 491
protuberans W. and G. S. West, 492
sudeticus Lemmermann, 493
- Ceratium*
carolinianum (Bailey) Jørgensen, 596
cornutum (Ehrenberg) Claparède and Lachmann, 597
hirundinella (Mueller) Schrank, 598
- Chaetoceros*
Muelleri Lemmermann, 514
- Charactochloris*
epizootica Pascher, 115
incrassata Skuja, 116
- Chilomonas*
Paramacium Entz, 572
- Chlamydomonas*
frigida Skuja, 104
sagittula Skuja, 105
vernalis Skuja, 106
- Chlorangium*
polychlorum Skuja, 117
- Chlorella*
pyrenoidosa Chick, 132
vulgaris Beyerinck, 133
- Chlorogonium*
maximum Skuja, 107
- Chodatella*
quadrisseta Lemmermann, 146
- Chromulina*
elegans Doflein, 366
erkensis Skuja, 367
magna Doflein, 368
minor Pascher, 369
vagens Pascher, 370
- Chroococcus*
dispersus (Keissler) Lemmermann, 27
dispersus var. *minor* G. M. Smith, 28
limneticus Lemmermann, 29
minimum (Keissler) Lemmermann, 30
minutus (Kuetzing) Naegeli, 31
Prescottii Drouet and Daily, 32
turgidus (Kuetzing) Naegeli, 33
Westii (W. West) Boye-Petersen, 34
- Chroomonas*
acuta Utermohl, 553
brevicilata Nygaard, 554
coerulea (Geitler) Skuja, 555
Nordstedtii Hansgirg, 556
- Chrysidiastrum*
catenatum Lauterborn, 465

- Chrysocapsa*
planctonica (W. and G. S. West) Pascher, 467
Chrysochromulina
frigida Holmgren, 470
parva Lackey, 471
Chrysococcus
biporus Skuja, 372
Klebsianus Pascher, 373
minutus (Fritsch) Nygaard, 374
rufescens Klebs, 375
Chrysoikos
Skujai (Nauwerck) Willen, 436
Chrysolykos
planctonicus Mach, 437
Chrysoephaerella
longispina Lauterborn, 445
Rodhei Skuja, 446
Chrysostephanosphaera
globulifera Scherffel, 466
Closteriopsis
longissima Lemmermann, 214
longissimum var. *tenuissimum* G. M. Smith, 215
Closterium
aciculare (Tuffen) West, 230
aciculare var. *subprorum* W. and G. S. West, 231
acutum (Lyngbye) Brebisson, 232
Dianae Ehrenberg, 233
Kützingii Brebisson, 234
prorum Brebisson, 235
Coccozyma
minor Skuja, 225
sp., 226
Coelastrum
cambricum Archer, 192
cornutum Lemaire, 193
cubicum Naegeli, 194
microporum Naegeli, 195
reticulatum (Dangeard) Senn, 196
Coelosphaerium
Kützingianum Naegeli, 39
minutissimum Lemmermann, 40
Naegelianum Unger, 41
Coenocystis
subcylindrica Korschikov, 216
Colacium
arbuscula Stein, 363
vericulosum Ehrenberg, 364
Collodictyon
triciliatum Carter, 100
Cosmarium
commissurale var. *crassum* Nordstedt, 237
depressum (Naegeli) Lund, 238
depressum var. *achondrum* (Boltd) W. and G. S. West, 239
Crucigenia
apiculata (Lemmermann) Schmidle, 180
crucifera (Wolle) Collins, 181
fenestrata Schmidle, 182
irregularis Wille, 183
quadrata Morren, 184
rectangularis (A. Braun) Gay, 185
tetrapedia (Kirchner) W. and G. S. West, 186
Cryptaulax
vulgaris Skuja, 577
Cryptomonas
borealis Skuja, 557
erosa Ehrenberg, 558
erosa var. *reflexa* Marsson, 559
gracilis Skuja, 560
lucens Skuja, 561
Marssonii Skuja, 562
obovata Skuja, 563
ovata Ehrenberg, 564
platyuris Skuja, 565
pusilla Bachmann, 566
reflexa (Marsson) Skuja, 567
rostrata (Troitzk) Skuja, 568
rostratiformis Skuja, 569
tenuis Pascher, 570
tetrapyrenoidosa Skuja, 571
Cyanomonas
americana (Davis) Oltmanns, 573
Cyathomonas
truncata (Fres.) Fisch, 575
Cyclonexis
annularis Stokes, 447
Cyclotella
comta (Ehrenberg) Kuetzing, 504
glomerata Bachmann, 505
Kützingiana Thwaites, 506
Meneghiniana Kuetzing, 507
Meneghiniana var. *laevissima* (Van Goor) Hustedt, 508
ocellata Pantocsele, 509
stelligera Cleve and Grunow, 510
Dactylococcopsis
linearis Geitler, 55
Smithii R. and F. Chodat, 56
Desmarella
brachycalyx Skuja, 484
moniliformis Kent, 485
phalanx Stein, 486
Desmidiium
Baileyi (Ralfs) Nordstedt, 316
Grevillii (Kuetzing) DeBary, 317
quadratum Nordstedt, 318
Diatoma
elongatum Agardh, 520
elongatum var. *actinastroides* Krieger, 521
Dictyosphaerium
Ehrenbergianum Naegeli, 174
elegans Bachmann, 175
pulchellum Wood, 176
simplex Skuja, 177
Dimorphococcus
lunatus A. Braun, 178
Dinobryon
acuminatum Ruttner, 416
bavarium Imhof, 417
bavarium var. *Vanhoeffeni* (Bachmann) Kreiger, 418
Borgei Lemmermann, 419
campanulostipitum Ahlstrom, 420
crenulatum W. and G. S. West, 421
cylindricum Imhof, 422
cylindricum var. *alpinum* (Imhof) Backmann, 423
cylindricum var. *palustre* Lemmermann, 424
divergens Imhof, 425
divergens var. *Schauinslandii* (Lemmermann) Brunthaler, 426
elegantissimum Bourrelly, 427
pediforme (Lemmermann) Steineche, 428
sertularia Ehrenberg, 429
sertularia var. *protuberans* (Lemmermann) Krieger, 430
sociale Ehrenberg, 431
sociale var. *americanum* (Brunthaler) Backmann, 432
sociale var. *stipitatum* (Stein) Lemmermann, 433
suecicum Lemmermann, 434
suecicum var. *longispinum* Lemmermann, 435
Diplopsalis
acuta Entz, 595
Dispora
crucigenioides Printz, 179
Ducelliera
chodatii (Ducellier) Teiling, 494

- Elakatothrix*
gelatinosa Willen, 224
- Epiphyxis*
alaskana Hilliard and Asmund, 461
gracilis Hilliard and Asmund, 462
tabellariae (Lemmermann) G. M. Smith, 463
utriculus var. *acuta* (Schiller) Hilliard, 464
- Erkenia*
subaequiciliata Skuja, 412
- Euastrum*
bidentatum Naegeli, 240
denticulatum (Kirchner) Gay, 241
sinuosum Lenorm, 242
sinuosum var. *ceylanicum* West and West, 243
- Eucapsis*
alpina Clements and Schantz, 57
- Eudorina*
elegans Ehrenberg, 111
- Euglena*
acus Ehrenberg, 328
elastica Prescott, 329
gracilis Klebs, 330
intermedia var. *Klebsii* Lemmermann, 331
oblonga Schmitz, 332
oxyuris Schmarida, 333
pisciiformis Klebs, 334
spathirhyncha Skuja, 335
spirogyra Ehrenberg, 336
texta (Dujardin) Hubner, 337
viridis Ehrenberg, 338
- Eunotia*
faba (Ehrenberg) Grunow, 540
- Fragilaria*
alpestris Krasske, 522
construens (Ehrenberg) Grunow, 523
construens var. *binodis* (Ehrenberg) Grunow, 524
crotonensis Kitton, 525
rumpens var. *genuina* (Kuetzing) Carlson, 526
- Gemellia*
neglecta Teiling and Skuja, 118
- Glenodinium*
gymmodinium Penard, 580
Pascheri Suchlandt, 581
- Gloeobotrys*
limneticus (G. M. Smith) Pascher, 489
- Gloeococcus*
Schroeteri (Chodat) Lemmermann, 121
- Gloeocystis*
planctonica (W. and G. S. West) Lemmermann, 119
- Gloeotheca*
linearis Naegeli, 49
linearis var. *composita* G. M. Smith, 50
- Gloeotila*
contorta Chodat, 219
pelagica (Nygaard) Skuja, 220
pulehra Skuja, 221
- Gloeotrichia*
echinulata (J. E. Smith) P. Richter, 98
- Golenkinia*
radiata Chodat, 218
- Gomphosphaeria*
apomina Kuetzing, 36
lacustris Chodat, 37
lacustris var. *compacta* Lemmermann, 38
- Gonium*
pectorale Mueller, 109
sociale (Dujardin) Warming, 110
- Gonyostomum*
semen (Ehrenberg) Diesing, 548
- Groenbladia*
neglecta (Raciborski) Teiling, 319
- Gymmodinium*
acidotum Nygaard, 600
aeruginosum Stein, 601
excavatum Nygaard, 602
fuscum (Ehrenberg) Stein, 603
helveticum Penard, 604
lacustre Schiller, 605
limneticum Woloszynska, 606
mirabile Penard, 607
ordinatum Skuja, 608
palustre Schilling, 609
trioeratum Skuja, 610
uberrimum (Allman) Kofoid and Swezy, 611
varians Maskell, 612
veris Lindeman, 613
- Gyromitus*
cordiformis Skuja, 101
- Hyalotheca*
dissiliens (Smith) Brebisson, 313
mucosa (Merton) Ehrenberg, 314
neglecta Raciborski, 315
- Isthmochloron*
trispinatum (W. and G. S. West) Skuja, 488
- Katablepharis*
ovalis Skuja, 574
- Kephyrion*
boreale Skuja, 376
cupuliforme Conrad, 377
littorale Lund, 378
obliquum Hilliard, 379
petasatum Conrad, 380
Rubri-claustri Conrad, 381
spirale (Lackey) Conrad, 382
- Kephyriopsis*
cordata Hilliard, 383
elegans Hilliard, 384
gracilis Hilliard, 385
limnetica Hilliard, 386
- Kirchneriella*
elongata G. M. Smith, 200
lunaris (Kirchner) Moebius, 201
obesa (W. West) Schmidle, 202
subsolitaria G. S. West, 203
- Lagerheimia*
ciliata (Lagerheim) Chodat, 143
subsalsa Lemmermann, 144
wratilawiensis Schroeder, 145
- Lauterborniella*
elegantissima Schmidle, 189
- Lepocinclis*
fusiformis (Carter) Lemmermann, 339
ovum (Ehrenberg) Lemmermann, 340
- Lyngbya*
Birgei G. M. Smith, 90
endophytica Elenkin and Hollerbach, 91
limnetica Lemmermann, 92
mucicola Lemmermann, 93
pseudospirulina Pascher, 94
versicolor (Wartmann) Gomont, 95
- Macromonas*
bipunctata (Gicklhorn) Utermohl and Koppe, 547
- Mallomonas*
acoaroides Perty, 388
akrokomos Ruttner, 389
cf. cartis Harris and Bradley, 390
caudata Iwanoff, 391
coronata Bolochozew, 392
elongata Reverdin, 393

- globosa* Schiller, 394
heterospina Lund, 395
heterotrichia Nygaard, 396
intermedia Kisselov, 397
lelymene Harris and Bradley, 398
majorensis Skuja, 399
mangofera Harris and Bradley, 400
multiunca Asmund, 401
oviformis Nygaard, 402
papillosa Harris and Bradley, 403
producta Iwanoff var. *marohica* Lemmermann, 404
pseudocoronata Prescott, 405
pumilio Harris and Bradley, 406
pumilio var. *canadensis* Holmgren, 407
reginae Teiling, 408
rhopaloides Conrad, 409
Teilingii (Teiling) Conrad, 410
tonsurata Teiling, 411
Marssoniiella
elegans Lemmermann, 47
Melosira
ambigua (Grunow) O. Mueller, 496
Binderana Kuetzing, 497
distans (Ehrenberg) Kuetzing, 498
granulata (Ehrenberg) Ralfs, 499
granulata var. *angustissima* O. Mueller, 500
islandica sub. sp. *helvetica* O. Mueller, 501
italica var. *subarctica* O. Mueller, 502
varians C. A. Agardh, 503
Merismopedia
elegans A. Braun, 42
glauca (Ehrenberg) Naegeli, 43
minima Beck, 44
punctata Meyen, 45
tenuissima Lemmermann, 46
Micractinium
pusillum Fresen, 326
Micrasterias
foliacea var. *ornata* Nordstedt, 244
muricata (Bailey) Ralfs, 245
pinnatifida (Kuetzing) Ralfs, 246
truncata (Corda) Brebisson, 247
Microcystis
aeruginosa Kuetzing, 8
flos-aquae (Wittrock) Kirchner, 9
stagnalis var. *pulchra* Lemmermann, 10
viridis (A. Braun) Lemmermann, 11
Monomastix
opisthostigma Scherffel, 546
Monoraphidium
contortum (Thuret in Brebisson) Komarkova, 210
convolutum (Corda) Komarkova, 211
minutum (Naegeli) Komarkova, 212
setiforme (Nygaard) Komarkova, 213
Navicula
radiosa Kuetzing, 538
Nephrocystium
Agardhianum Naegeli, 140
limneticum (G. M. Smith) Skuja, 141
lunatum W. West, 142
Nitzschia
dissipata (Kuetzing) Grunow, 541
holsatica Hustedt, 542
linearis W. Smith, 543
Ochromonas
globosa Skuja, 438
spareverrucosa var. *septentrionalis* Skuja, 439
stellaris Doflein, 440
vallesiaca Chodat, 441
verrucosa Skuja, 442
Oocystis
Borgei Snow, 134
crassa Wittrock, 135
gigas var. *incrassata* W. and G. S. West, 136
lacustris Chodat, 137
solitaria Wittrock, 138
submarina Lagerheim var. *variabilis* Skuja, 139
Ophiocytium
cochleare A. Braun, 490
Ocellatoria
amphigranulata Van Goor, 79
Agardhii Gomont, 80
Agardhii var. *isothrix* Skuja, 81
geminata (Meneghini) Gomont, 82
Lauterbornii Schmidle, 83
limnetica Lemmermann, 84
limosa (Roth) Agardh, 85
ornata Kuetzing, 86
Redekei Van Goor, 87
tenuis Agardh, 88
Utermoehlii (Utermöhl) J. de Toni, 89
Pandorina
charkowiensis Korschikoff, 112
morum (Mueller) Bory, 113
Paulschulzia
pseudovolvox (Schulz, Teiling) Skuja, 125
Pediastrum
Boryanum (Turpin) Meneghini, 126
Boryanum var. *longicorne* Raciborski, 127
duplex Meyen, 128
duplex var. *clathratum* (A. Braun) Lagerheim, 129
simplex Meyen, 130
tetras (Ehrenberg) Ralfs, 131
Pelogloea
bacillifera Lauterborn, 25
chlorina Lauterborn, 26
Pelonema
tenuis Lauterborn, 96
Peloploca
pulchra Skuja, 97
Peridinium
aciculiferum Lemmermann, 582
africanum var. *remotum* fa. *tatricum* (Woloszynska) Lefèvre, 583
cinctum Ehrenberg, 584
goslaviense Woloszynska, 585
inconspicuum Lemmermann tab. *remotum* fa. *spiniferum*, 586
limbatum (Stokes) Lemmermann, 587
palatinum Lauterborn, 588
palustre (Lindemann) Lefèvre, 589
pusillum (Penard) Lemmermann, 590
umbonatum Stein, 591
Volzii Lemmermann, 592
Willei Huitfeldt-Kaas, 593
wisconsinense Eddy, 594
Phacomyxa
sphagnophila Skuja, 120
Phacotus
lenticularis Stein, 108
Phacus
caudatus Hubner, 341
chloroplastes Prescott, 342
longicauda (Ehrenberg) Dujardin, 343
mirabilis Pochmann, 344
pseudonordstedtii Pochmann, 345
pyrum (Ehrenberg) Stein, 346
tortus (Lemmermann) Skvortzow, 347
Phaeaster
aphanaster Skuja, 371
Phormidium
mucicola Huber-Pestalozzi and Nauman, 58
Planctonema
Lauterbornii Schmidle, 227

- Planktosphaeria*
gelatinosa G. M. Smith, 122
- Pleurotaenium*
Trabecula (Ehrenberg) Naegeli, 236
- Pseudanabaena*
articulata Skuja, 75
constricta (Szafer) Lauterborn, 76
- Pseudokephyrion*
alaskanum Hilliard, 448
angulosum Hilliard, 449
attenuatum Hilliard, 450
conicum (Schiller) Schmidle, 451
cylindricum Bourrelly, 452
ellipsoideum (Pascher) Schmidle, 453
Entzii Conrad, 454
hiemale Hilliard, 455
minutissimum Conrad, 456
parvum Hilliard, 457
poculum Conrad, 458
spirale (Gerloff) Schmid, 459
striatum Hilliard, 460
- Pteridomonas*
pulex Penard, 474
- Pyramidomonas*
tetrahynchus Schmarada, 103
- Quadrigula*
closterioides (Bohlin) Printz, 222
Pfitzeri (Schroeder) Printz, 223
- Radiocystis*
geminata Skuja, 35
- Rhabdoderma*
Gorskii Woloszynska, 51
irregulare (Naumann) Geitler, 52
lineare Schmidle and Lauterborn, 53
sigmoidea Moore and Carter, 54
- Rhizosolenia*
ericensis H. L. Smith, 515
longiseta Zacharias, 516
- Rhodomonas*
lacustris Pascher and Ruttner, 549
minuta Skuja, 550
minuta var. *namoplanctica* Skuja, 551
tenuis Skuja, 552
- Salpingoeca*
Buetschlii Lemmermann, 482
frequentissima (Zacharias) Lemmermann, 483
- Scenedesmus*
acuminatus (Lagerheim) Chodat, 157
arcuatus Lemmermann, 158
armatus Chodat, 159
armatus var. *boghariensis* f. *semicostatus* Hortobagyi, 160
balatonicus Hortobagyi, 161
brevispina (G. M. Smith) Chodat, 162
denticulatus Lagerheim, 163
ecornis (Ralfs) Chodat, 164
incrassatulus Bohlin, 165
opoliensis Richter, 166
pannonicus Hortobagyi, 167
platydisca (G. M. Smith) Chodat, 168
quadricauda (Turpin) Brebisson, 169
quadricauda var. *longispina* (Chodat) G. M. Smith, 170
serratus f. *minor* Chodat, 171
spinosis Chodat, 172
- Schroederia*
setigera (Schroder) Lemmermann, 155
- Scourfieldia*
cordiformis Takeda, 102
- Selemastrum*
Bibracianum Reinsch, 197
- capricornutum* Printz, 198
minutum (Naegeli) Collins, 199
- Sennia*
parvula Skuja, 576
- Sphaerobotrys*
fluviatilis Butcher, 124
- Sphaerososma*
granulatum Roy and Bisset, 325
- Spirotaenia*
condensata Brebisson, 321
- Spirulina*
laxa G. M. Smith, 77
laxissima G. S. West, 78
- Spondylosium*
papillosum W. and G. S. West, 323
planum (Wolle) W. and G. S. West, 324
- Staurastrum*
anatinum Cooke and Wills, 259
anatinum var. *denticulatum* G. M. Smith, 260
apiculatum Brebisson, 261
Arachne Ralfs, 262
Arachne var. *arachnoides* W. and G. S. West, 263
arctiscon (Ehrenberg) Lund, 264
Avicula Brebisson, 265
brachiatum Ralfs, 266
brasilense Nordstedt var. *Lundellii* W. and G. S. West, 267
brevispinum Brebisson, 268
Bullardi G. M. Smith, 269
oerastes Lund, 270
chaetoceras (Schroeder) G. M. Smith, 271
Clevei (Wittrock) Roy and Bisset, 272
curvatum W. West, 273
cuspidatum Brebisson, 274
cuspidatum var. *divergens* Nordstedt, 275
dejectum Brebisson, 276
elongatum Barker, 277
freemanni West and West 278
gemelliparum Nordstedt, 279
gladiosum Turner, 280
gracile Ralfs, 281
gracile var. *nanum* Willen, 282
hexacerum (Ehrenberg) Wittrock, 283
Hystrix Ralfs, 284
inconspicuum Nordstedt, 285
jaculiferum West, 286
Johnsoni W. and G. S. West, 287
lacustre G. M. Smith, 288
leptocladum Nordstedt, 289
leptocladum var. *cornutum* Wille, 290
leptocladum var. *sinuatum* Wolle, 291
leptodermum Lund, 292
longibrachiatum (Borge) Gutwinski, 293
longipes (Nordstedt) Teiling, 294
longiradiatum W. and G. S. West, 295
longispinum (Bailey) Archer, 296
lunatum Ralfs, 297
lunatum var. *planctonicum* W. and G. S. West, 298
obiculare Ralfs, 299
ophiura Lund, 300
pachyrhynchum Nordstedt, 301
paradoxum Meyen, 302
paradoxum var. *parvum* W. West, 303
pentacerum (Wolle) G. M. Smith, 304
protectum var. *planctonicum* G. M. Smith, 305
pseudopelagicum W. and G. S. West, 306
quadrispinatum Turner, 307
setigerum Cleve, 308
suberuciatum Cooke and Wills, 309
subgracillimum W. and G. S. West, 310
vestitum Ralfs, 311
willemanni Gutwinski, 312
- Stelaxmonas*
dichotoma Lackey, 487

- Stenocalyx*
monilifera (Gerloff) Schmid, 387
- Stephanodiscus*
astrea (Ehrenberg) Grunow, 511
Hantzschii Grunow, 512
niagarae Ehrenberg, 513
- Stichococcus*
atomus Skuja, 228
minutissimus Skuja, 229
- Stichogloea*
Doederleini (Schmidle) Wille 472
olivacea Chodat, 473
- Suriella*
ovata Kuetzing, 544
- Synechococcus*
aeruginosus Naegeli, 48
- Synedra*
actinastroides Lemmermann, 527
acus Kuetzing, 528
acus var. *angustissima* Grunow, 529
acus var. *radians* (Kuetzing) Hustedt, 530
cyclopus Brutschy, 531
nana Meister, 532
rumpens Kuetzing, 533
ulna (Nitzsch) Ehrenberg, 534
- Synura*
Adamsii G. M. Smith, 413
sphagnicola Korschikow, 414
wella Ehrenberg and Korshikow
- Tabellaria*
fenestrata (Lyngbya) Kuetzing, 518
flocculosa (Rothest) Kuetzing, 519
- Tetradismus*
wisconsinensis G. M. Smith, 173
- Tetraedron*
caudatum (Corda) Hansgirg, 149
caudatum var. *longispinum* Lemmermann, 150
limneticum Borge, 151
minimum (A. Braun) Hansgirg, 152
minimum var. *tetralobulatum* Reinsch, 153
trigonum (Naegeli) Hansgirg, 154
- Tetrallantos*
Lagerheimii Teiling, 191
- Tetraspora*
gelatinosa (Wahlb.) Agardh, 123
- Tetrastrum*
pulloideum Teiling, 187
staurogeniaeforme (Schroeder) Lemmermann, 188
- Trachelomonas*
americana Lemmermann 348
armata (Ehrenberg) Stein, 349
armata var. *longispina* (Playfair) Deflandre, 350
bacillifera Playfair, 351
cylindrica (Ehrenberg) Playfair, 352
hispida (Perty) Stein, 353
intermedia Dangeard, 354
lacustris var. *ovalis* Drezepolski, 355
oblonga Lemmermann, 356
planctonica Swirenko, 357
spinosa Stokes, 358
spinulosa (Skuja) Deflandre, 359
superba (Swirenko) Deflandre, 360
superba var. *spinosa* Prescott, 361
volvocina Ehrenberg, 362
- Treubaria*
triappendiculata Bernard, 148
- Triploceras*
verticillatum Bailey, 322
- Trochiscia*
reticularis (Reinsch) Hansgrig, 147
- Uroglena*
americana Catkins, 443
- europa* (Pascher) Conrad, 444
- Volvox*
aureus Ehrenberg, 114
- Xanthidium*
antelopaeum (Brebisson) Kuetzing, 248
armatum (Brebisson) Rabenhorst, 249
cristatum Brebisson var. *uncinatum* Brebisson, 250
perissacanthum Scott and Prescott, 251
subhastiferum West, 252