Coscinodiscophyceae

  Aulacoseirales

      Aulacoseiraceae

          Aulacoseira granulata (Eherenberg) Simonsen 1979   AulGra

          Aulacoseira granulata var. *angustissima* (Müller) Simonsen 1979   AulAng

          Aulacoseira aff. *islandica* (O.Müller) Simonsen 1979   AulIsl

Mediophyceae

  Stephanodiscales

      Stephanodiscaceae

          Cyclotella petenensis Sylvestre, Paillès & Escobar 2018   CycPet   **

          Discostella pseudostelligera (Hustedt) Houk & Klee 2004   DisPse

          Discostella stelligera (Cleve & Grunow) Houk & Klee 2004   DisSte

          Discostella sp.

          Stephanocyclus meneghinianus (Kützing) Kulikovskiy, Genkal & Kociolek 2022   SteMen

          Stephanodiscus hantzschii Grunow 1880   SteHan

Bicllariophyceae
  Fragilariophycidae

    Fragilariales

      Staurosiraceae

          Staurosira construens Ehrenberg 1843   StaCon

          Staurosira venter (Ehrenberg) Cleve & Möller 1879   StaCnv

    Licmophorales

      Ulnariaceae

          Ulnaria delicatissima (W.Smith) Aboal & P.C.Silva 2004   UlnDeli

          Ulnaria ulna (Nitzsch) Compère 2001   UlnUln

Eunotiophycidae

  Eunotiales

      Eunotiaceae

          Eunotia incisa Smith ex Gregory 1854   EunInc

          Eunotia monodon Ehrenberg 1843   EunMon

          Eunotia pectinalis (Kützing) Rabenhorst 1864   EunPec

Bacillariophycidae

  Cocconeidales

      Achnanthidiaceae

          Achnanthidium minutissimum (Kützing) Czarnecki 1994   AchMin

          Gogorevia exilis (Kützing) Kulikovskiy & Kociolek 2020   GogExi

          Planothidium sp.   PlaSp

Naviculales

Amphipleuraceae

Halamphora veneta (Kützing) Levkov 2009 — HmpVen

Brachysiraceae

Brachysira longirostris (Hustedt) D.G.Mann 1990 — BraLon **
Brachysira vitrea (Grunow) Ross 1966 — BraVit
Nupela sp. — NupSp

Catenulaceae

Amphora copulata (Kützing) Schoeman & Archibald 1986 — AmpCop

Diadesmidaceae

Luticola mutica (Kützing) Mann 1990 — LutMut

Diploneidaceae

Diploneis ovalis (Hilse) Cleve 1891 — DipOva

Naviculaceae

Navicula cryptocephala Kützing 1844 — NavCry
Navicula gregaria Donkin 1861 — NavGre
Navicula radiosa Kützing 1844 — NavRad

Neidiaceae

Neidium ampliatum (Ehrenberg) Krammer 1985 — NeiAmp

Pinnulariaceae

Pinularia brauniana (Grunow) Studnicka 1888 — PinBra

Sellaporaceae

Sellaphora pupula (Kützing) Mereschkovsky 1902 — SelPup
Sellaphora sp. — SelSp

Cymbellales

Cymbellaceae

Cymbopleura hustedtii (Krasske) Novelo, Tavera & Ibarra 2007 — CybHus
Cymbella mexicana (Ehrenberg) Cleve 1894 — CymMex

Gomphonemataceae

Encyonema neogracile Krammer 1997 — EncNeo
Encyonema silesiacum (Bleisch) Mann 1990 — EncSil
Encyonema densistriatum Novelo, Tavera & Ibarra 2007 — EncDen
Encyonmea sp. — EncSp
Encyonopsis microcephala (Grunow) Krammer 1997 — EnyMic
Encyonopsis sp. — EncSp
Gompohnema pygmaeum Kociolek & Stoermer 1991 — GomPyg

Rhoicospheniaceae

Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot 1980 — RhoAbr

Mastogloiales

    Mastogloiaceae

        Mastolgoia calcarea Lee, Gaiser, Van de Vijver, Edlund & Spaulding 2014   MasCal **

        Mastogoia elliptica (Agardh) Cleve 1893   MasEli **

Bacillariales

    Bacillariaceae

        Hantzschia amphioxys (Ehrenberg) Grunow 1880   HanAmp

        Nitzschia acicularis (Kützing) W.Smith 1853   NitAsc

        Nitzschia amphibioides Hustedt 1942   NitAmb

        Nitzschia palea (Kützing) W.Smith 1856   NitPal

Rhopalodiales

    Rhopalodiaceae

        Epithemia reicheltii Fricke 1904   EpiRei **

Table S1. Taxonomic list of the diatom taxa found in the studied lakes in Chiapas. ** = new record for Mexico according to the Continental Algae Database (bdLACET, Novelo & Tavera, 2021).
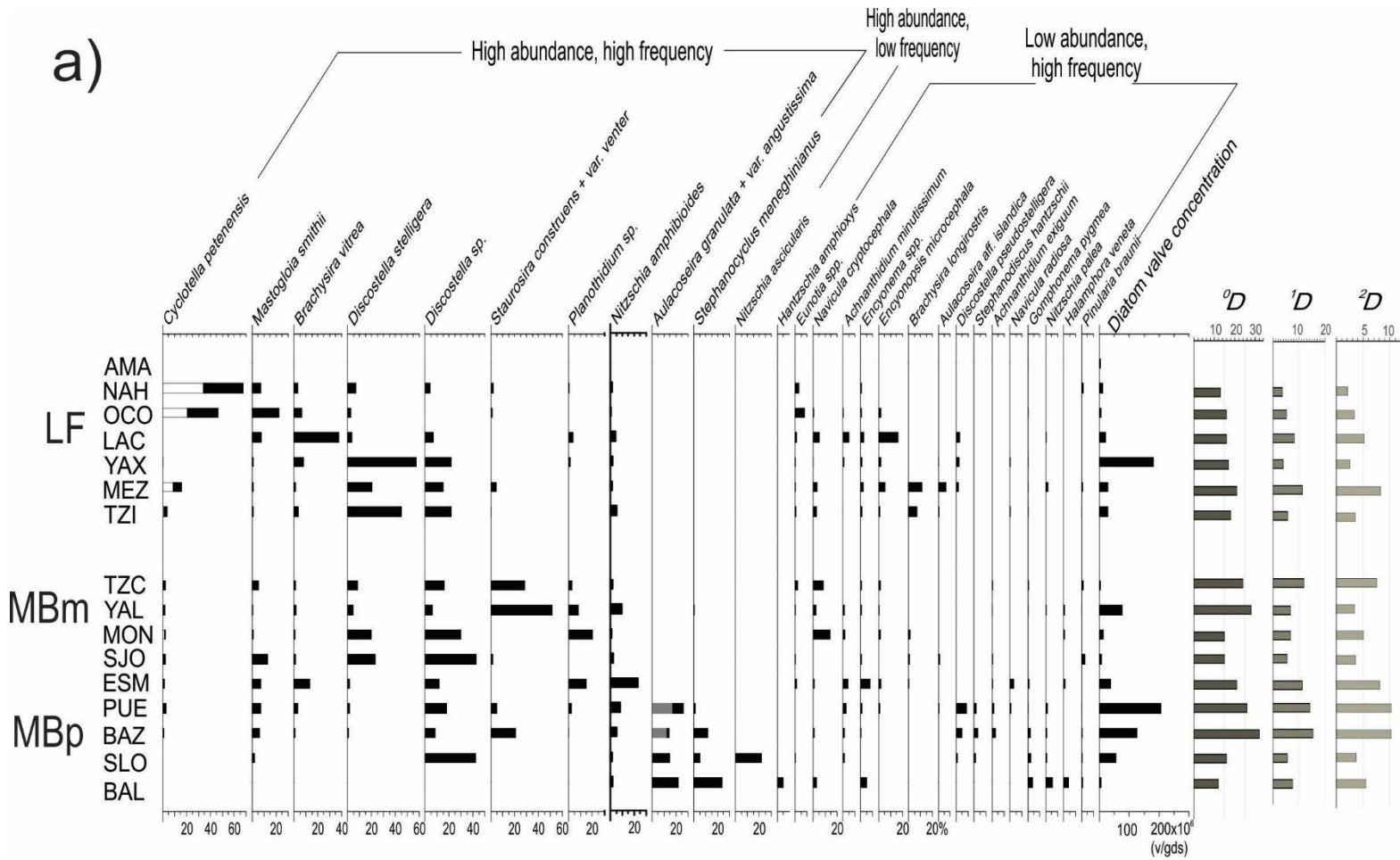
Figure S1. Relative abundances of the diatom taxa present in the studied karstic lakes in southern Mexico. White bars in *Cyclotella petenensis* represent the percentage of valves showing dissolution.