

## MICROALGAS E CIANOBACTÉRIAS CONTINENTAIS NO ESTADO DO ESPÍRITO SANTO: PASSADO, PRESENTE E FUTURO

Valéria de Oliveira Fernandes<sup>1\*</sup>, Danilo Camargo-Santos<sup>2</sup> & Stéfano Zorzal-Almeida<sup>3</sup>

E-mails: valeriaufes@yahoo.com.br (\*autor correspondente); danylus@gmail.com; stefanozorzal@gmail.com

### Material Suplementar

**Tabela 1.** Lista dos táxons de microalgas e cianobactérias registrados nos trabalhos analisados e atualizados conforme informações do Algaebase (www.algaebase.org, acesso em 20/06/2021).

**Table 1.** List of microalgae and cyanobacterial taxa recorded in the analyzed works and updated according to information from Algaebase (www.algaebase.org, 06/20/2021).

Class	Taxa
Bacillariophyceae	<i>Achnanthes elata</i> (Leuduger-Fortmorel) H.P.Gandhi
Bacillariophyceae	<i>Achnanthidium minutissimum</i> (Kützing) Czarnecki
Bacillariophyceae	<i>Amphora</i> spp
Bacillariophyceae	<i>Asterionellopsis glacialis</i> (Castracane) Round
Bacillariophyceae	<i>Aulacoseira distans</i> (Ehrenberg) Simonsen
Bacillariophyceae	<i>Aulacoseira granulata</i> (Ehrenberg) Simonsen
Bacillariophyceae	<i>Aulacoseira herzogii</i> (Lemmermann) Simonsen
Bacillariophyceae	<i>Aulacoseira italica</i> (Ehrenberg) Simonsen
Bacillariophyceae	<i>Aulacoseira</i> spp
Bacillariophyceae	<i>Bacillaria paxillifera</i> (O.F.Müller) T.Marsson
Bacillariophyceae	<i>Brachysira brebissoni</i> R. Ross
Bacillariophyceae	<i>Brachysira</i> spp.
Bacillariophyceae	<i>Caloneis</i> spp
Bacillariophyceae	<i>Capartogramma crucicula</i> (Grunow) R.Ross
Bacillariophyceae	<i>Cocconeis fluviatilis</i> J.H.Wallace
Bacillariophyceae	<i>Cocconeis</i> spp
Bacillariophyceae	<i>Cyclotella meneghiniana</i> Kützing
Bacillariophyceae	<i>Discostella stelligera</i> (Cleve & Grunow) Houk & Klee
Bacillariophyceae	<i>Encyonema silesiacum</i> (Bleisch) D.G.Mann
Bacillariophyceae	<i>Encyonema ventricosum</i> (C.Agardh) Grunow
Bacillariophyceae	<i>Epithemia</i> spp

Class	Taxa
Bacillariophyceae	<i>Eunotia bidentula</i> W.Smith
Bacillariophyceae	<i>Eunotia camelus</i> Ehrenberg
Bacillariophyceae	<i>Eunotia diodon</i> Ehrenberg
Bacillariophyceae	<i>Eunotia flexuosa</i> (Brébisson ex Kützing) Kützing
Bacillariophyceae	<i>Eunotia formica</i> Ehrenberg
Bacillariophyceae	<i>Eunotia pectinalis</i> (Kützing) Rabenhorst
Bacillariophyceae	<i>Eunotia</i> spp
Bacillariophyceae	<i>Eunotia zygodon</i> Ehrenberg
Bacillariophyceae	<i>Fragilaria</i> spp
Bacillariophyceae	<i>Frustulia rhomboides</i> (Ehrenberg) De Toni
Bacillariophyceae	<i>Gomphonema contraturris</i> Lange-Bertalot & E.Reichardt
Bacillariophyceae	<i>Gomphonema gracile</i> Ehrenberg
Bacillariophyceae	<i>Gomphonema lagenula</i> Kützing
Bacillariophyceae	<i>Gomphonema neonasutum</i> Lange-Bertalot & E.Reichardt
Bacillariophyceae	<i>Gomphonema parvulum</i> (Kützing) Kützing
Bacillariophyceae	<i>Gomphonema</i> spp.
Bacillariophyceae	<i>Gomphonema turris</i> var. <i>coarctata</i> (Frenguelli) Frenguelli
Bacillariophyceae	<i>Gomphonema turris</i> Ehrenberg
Bacillariophyceae	<i>Gyrosigma acuminatum</i> (Kützing) Rabenhorst
Bacillariophyceae	<i>Hantzschia elongata</i> (Hantzsch) Grunow
Bacillariophyceae	i spp
Bacillariophyceae	<i>Iconella tenera</i> (W.Gregory) Ruck & Nakov
Bacillariophyceae	<i>Melosira</i> spp
Bacillariophyceae	<i>Navicula</i> spp
Bacillariophyceae	<i>Navicula viridula</i> (Kützing) Ehrenberg
Bacillariophyceae	<i>Nitzschia palea</i> (Kützing) W.Smith
Bacillariophyceae	Pennales 1
Bacillariophyceae	<i>Pinnularia</i> spp
Bacillariophyceae	<i>Pleurosigma</i> spp
Bacillariophyceae	<i>Pleurosira laevis</i> (Ehrenberg) Compère
Bacillariophyceae	<i>Polymyxus coronalis</i> L.W.Bailey
Bacillariophyceae	<i>Stauroneis</i> spp
Bacillariophyceae	<i>Stephanopyxi</i> spp
Bacillariophyceae	<i>Surirella robusta</i> Ehrenberg
Bacillariophyceae	<i>Surirella</i> spp
Bacillariophyceae	<i>Synedra</i> spp
Bacillariophyceae	<i>Terpsinoë musica</i> Ehrenberg
Bacillariophyceae	<i>Ulnaria ulna</i> (Nitzsch) Compère
Bacillariophyceae	<i>Urosolenia eriensis</i> (H.L.Smith) Round & R.M.Crawford
Chlorophyceae	<i>Ankistrodesmus arcuatus</i> Korshikov
Chlorophyceae	<i>Ankistrodesmus bernardii</i> Komárek
Chlorophyceae	<i>Ankistrodesmus falcatus</i> (Corda) Ralfs
Chlorophyceae	<i>Ankistrodesmus fusiformis</i> Corda
Chlorophyceae	<i>Ankistrodesmus spiralis</i> (W.B.Turner) Lemmermann

Class	Taxa
Chlorophyceae	<i>Ankistrodesmus</i> spp
Chlorophyceae	<i>Chlamydocapsa</i> spp
Chlorophyceae	<i>Chlamydomonas pseudotarda</i> Bourrelly
Chlorophyceae	<i>Chlamydomonas</i> spp
Chlorophyceae	Chlorococcales spp
Chlorophyceae	<i>Chlorococcum</i> spp
Chlorophyceae	<i>Chlorolobion braunii</i> (Nägeli) Komárek
Chlorophyceae	Chlorophyceae spp
Chlorophyceae	<i>Chlorotetraedron incus</i> (Teiling) Komárek & Kováčik
Chlorophyceae	<i>Coelastrum astroideum</i> De Notaris
Chlorophyceae	<i>Coelastrum cambricum</i> W.Archer
Chlorophyceae	<i>Coelastrum microporum</i> Nägeli
Chlorophyceae	<i>Coelastrum proboscideum</i> Bohlin
Chlorophyceae	<i>Coelastrum pseudomicroporum</i> Korshikov
Chlorophyceae	<i>Coelastrum pulchrum</i> Schmidle
Chlorophyceae	<i>Coelastrum sphaericum</i> Nägeli
Chlorophyceae	<i>Coenochloris</i> spp
Chlorophyceae	<i>Desmodesmus bicaudatus</i> (Dedusenko) P.M.Tsarenko
Chlorophyceae	<i>Desmodesmus bicellularis</i> (Chodat) S.S.An, T.Friedl & E.Hegewald
Chlorophyceae	<i>Desmodesmus cf. bicellularis</i> (Chodat) S.S.An, T.Friedl & E.Hegewald
Chlorophyceae	<i>Desmodesmus communis</i> (E.Hegewald) E.Hegewald
Chlorophyceae	<i>Desmodesmus denticulatus</i> (Lagerheim) S.S.An, T.Friedl & E.Hegewald
Chlorophyceae	<i>Desmodesmus maximus</i> (West & G.S.West) Hegewald
Chlorophyceae	<i>Desmodesmus opoliensis</i> (P.G.Richter) E.Hegewald
Chlorophyceae	<i>Desmodesmus perforatus</i> (Lemmermann) E.Hegewald
Chlorophyceae	<i>Desmodesmus spinosus</i> (Chodat) E.Hegewald
Chlorophyceae	<i>Eudorina elegans</i> Ehrenberg
Chlorophyceae	<i>Eutetramorus</i> spp
Chlorophyceae	<i>Gloeocystis</i> spp
Chlorophyceae	<i>Golenkinia radiata</i> Chodat
Chlorophyceae	<i>Golenkinia</i> spp
Chlorophyceae	<i>Hariotina reticulata</i> P.A.Dangeard
Chlorophyceae	<i>Kirchneriella diana</i> var. <i>major</i> (Korshikov) Comas
Chlorophyceae	<i>Kirchneriella</i> spp
Chlorophyceae	<i>Messastrum gracile</i> (Reinsch) T.S.Garcia
Chlorophyceae	<i>Monactinus simplex</i> (Meyen) Corda
Chlorophyceae	<i>Monoraphidium circinale</i> (Nygaard) Nygaard
Chlorophyceae	<i>Monoraphidium contortum</i> (Thuret) Komárková-Legnerová
Chlorophyceae	<i>Monoraphidium convolutum</i> (Corda) Komárková-Legnerová
Chlorophyceae	<i>Monoraphidium griffithii</i> (Berkeley) Komárková-Legnerová
Chlorophyceae	<i>Monoraphidium komarkovae</i> Nygaard
Chlorophyceae	<i>Monoraphidium minutum</i> (Nägeli) Komárková-Legnerová
Chlorophyceae	<i>Monoraphidium mirabile</i> (West & G.S.West) Pankow
Chlorophyceae	<i>Monoraphidium nanum</i> (Ettl) Hindák

Class	Taxa
Chlorophyceae	<i>Monoraphidium</i> spp
Chlorophyceae	<i>Monoraphidium tortile</i> (West & G.S.West) Komárková-Legnerová
Chlorophyceae	<i>Pectinodesmus javanensis</i> (Chodat) E.Hegewald, C.Bock & Krienitz
Chlorophyceae	<i>Pediastrum duplex</i> Meyen
Chlorophyceae	<i>Pediastrum duplex</i> var. <i>rugulosum</i> Raciborski
Chlorophyceae	<i>Pseudodidymocystis fina</i> (Komárek) E.Hegewald & Deason
Chlorophyceae	<i>Quadrigula closterioides</i> (Bohlin) Printz
Chlorophyceae	<i>Quadrigula</i> spp
Chlorophyceae	<i>Raphidocelis danubiana</i> (Hindák) Marvan, Komárek & Comas
Chlorophyceae	<i>Scenedesmus acuminatus</i> (Lagerheim) Chodat
Chlorophyceae	<i>Scenedesmus bijugatus</i> f. <i>minor</i> Chadha & Pandey
Chlorophyceae	<i>Scenedesmus bijugus</i> (Turpin) Lagerheim
Chlorophyceae	<i>Scenedesmus</i> cf. <i>semipulcher</i> Hortobágyi
Chlorophyceae	<i>Scenedesmus ecornis</i> (Ehrenberg) Chodat
Chlorophyceae	<i>Scenedesmus ellipticus</i> Corda
Chlorophyceae	<i>Scenedesmus maximus</i> (West & G.S.West) Chodat
Chlorophyceae	<i>Scenedesmus obtusus</i> f. <i>disciformis</i> (Chodat) Compère
Chlorophyceae	<i>Scenedesmus quadricauda</i> (Turpin) Brébisson
Chlorophyceae	<i>Scenedesmus shensiensis</i> Jao
Chlorophyceae	<i>Scenedesmus</i> spp
Chlorophyceae	<i>Schroederia nitzschioides</i> (G.S.West) Korschikov
Chlorophyceae	<i>Schroederia setigera</i> (Schröder) Lemmermann
Chlorophyceae	<i>Selenastrum bibraianum</i> Reinsch
Chlorophyceae	<i>Sphaerocystis planctonica</i> (Korshikov) Bourrelly
Chlorophyceae	<i>Sphaerocystis schroeteri</i> Chodat
Chlorophyceae	<i>Sphaerocystis</i> spp
Chlorophyceae	<i>Stauridium privum</i> (Printz) Hegewald
Chlorophyceae	<i>Stauridium tetras</i> (Ehrenberg) E.Hegewald
Chlorophyceae	<i>Tetradesmus dimorphus</i> (Turpin) M.J.Wynne
Chlorophyceae	<i>Tetradesmus lagerheimii</i> M.J.Wynne & Guiry
Chlorophyceae	<i>Tetradesmus obliquus</i> (Turpin) M.J.Wynne
Chlorophyceae	<i>Tetradesmus</i> spp
Chlorophyceae	<i>Tetraëdron caudatum</i> (Corda) Hansgirg
Chlorophyceae	<i>Tetraedron longispinum</i> (Perty) Hansgirg sensu Gucunski
Chlorophyceae	<i>Tetraëdron minimum</i> (A.Braun) Hansgirg
Chlorophyceae	<i>Tetraëdron triangulare</i> Korshikov
Chlorophyceae	<i>Tetraëdron trigonum</i> (Nägeli) Hansgirg
Chlorophyceae	<i>Tetrallantos lagerheimii</i> Teiling
Chlorophyceae	<i>Westella botryoides</i> (West) De Wildeman
Chrysophyceae	<i>Dinobryon sertularia</i> Ehrenberg
Cryptophyceae	<i>Cryptomonas parapyrenoidifera</i> Skuja
Cryptophyceae	<i>Cryptomonas</i> spp
Cryptophyceae	<i>Komma caudata</i> (L.Geitler) D.R.A.Hill
Crysophyceae	<i>Chrysococcus punctiformis</i> Pascher

Class	Taxa
Crysophyceae	<i>Chrysococcus rufescens</i> Klebs
Crysophyceae	<i>Dinobryon</i> spp
Crysophyceae	<i>Mallomonas</i> spp
Cyanophyceae	<i>Achroonema angustatum</i> (Koppe) Skuja 1956
Cyanophyceae	<i>Anabaena</i> spp
Cyanophyceae	<i>Anabaenopsis</i> spp
Cyanophyceae	<i>Anagnostidinema amphibium</i> (C.Agardh ex Gomont) Strunecký, Bohunická, J.R.Johansen & J.Komárek
Cyanophyceae	<i>Anathece</i> cf. <i>smithii</i> (Komárková-Legnerová & Cronberg) Komárek, Kastovsky & Jezberová
Cyanophyceae	<i>Anathece endophytica</i> (W. & G.S.West) Komárek, Kastovsky & Jezberová
Cyanophyceae	<i>Anathece smithii</i> (Komárková-Legnerová & Cronberg) Komárek, Kastovsky & Jezberová
Cyanophyceae	<i>Aphanizomenon</i> spp
Cyanophyceae	<i>Aphanocapsa delicatissima</i> West & G.S.West
Cyanophyceae	<i>Aphanocapsa elachista</i> West & G.S.West
Cyanophyceae	<i>Aphanocapsa grevillei</i> (Berkeley) Rabenhorst
Cyanophyceae	<i>Aphanocapsa holsatica</i> (Lemmermann) G.Cronberg & Komárek
Cyanophyceae	<i>Aphanocapsa incerta</i> (Lemmermann) G.Cronberg & Komárek
Cyanophyceae	<i>Aphanocapsa koordersii</i> K.M.Strøm
Cyanophyceae	<i>Aphanocapsa nubila</i> Komárek & H.J.Kling
Cyanophyceae	<i>Aphanocapsa</i> spp
Cyanophyceae	<i>Aphanothece microscopica</i> Nägeli
Cyanophyceae	<i>Aphanothece nidulans</i> P.Richter
Cyanophyceae	<i>Aphanothece</i> spp
Cyanophyceae	<i>Aphanothece stagnina</i> (Sprengel) A.Braun
Cyanophyceae	<i>Borzia trilocularis</i> Cohn ex Gomont
Cyanophyceae	<i>Calothrix fusca</i> Bornet & Flahault
Cyanophyceae	<i>Calothrix</i> spp
Cyanophyceae	<i>Chroococcus</i> cf. <i>cronbergae</i> J.Komárek & E.Novelo
Cyanophyceae	<i>Chroococcus dispersus</i> (Keissler) Lemmermann
Cyanophyceae	<i>Chroococcus minimus</i> (Keissler) Lemmermann
Cyanophyceae	<i>Chroococcus minor</i> (Kützing) Nägeli
Cyanophyceae	<i>Chroococcus minutus</i> (Kützing) Nägeli
Cyanophyceae	<i>Chroococcus obliterated</i> Richter
Cyanophyceae	<i>Chroococcus</i> spp
Cyanophyceae	<i>Chroococcus turgidus</i> (Kützing) Nägeli
Cyanophyceae	<i>Chrysochlorium bergii</i> (Ostenfeld) E.Zapomelová, O.Skácelová, P.Pumann, R.Kopp & E.Janecek
Cyanophyceae	<i>Coelastrum</i> spp
Cyanophyceae	<i>Coelosphaerium kuetzingianum</i> Nägeli
Cyanophyceae	<i>Cyanodictyon tropicale</i> P.A.C.Senna, A.Delazari & Sant'Anna
Cyanophyceae	Cyanophyceae spp
Cyanophyceae	<i>Cylindrospermopsis/Raphidiopsis</i>
Cyanophyceae	<i>Cylindrospermum</i> spp

Class	Taxa
Cyanophyceae	<i>Dolichospermum solitarium</i> (Klebahn) Wacklin, L.Hoffmann & Komárek
Cyanophyceae	<i>Eucapsis aphanocapsoides</i> (Skuja) Komárek & Hindák
Cyanophyceae	<i>Eucapsis</i> cf. <i>aphanocapsoides</i> (Skuja) Komárek & Hindák
Cyanophyceae	<i>Fischerella</i> spp
Cyanophyceae	<i>Geitlerinema</i> spp
Cyanophyceae	<i>Gloeocapsa atrata</i> Kützing, nom. illeg.
Cyanophyceae	<i>Gloeothece</i> spp
Cyanophyceae	<i>Gomphosphaeria multiplex</i> Komárek
Cyanophyceae	<i>Hapalosiphon pumilus</i> Kirchner ex Bornet & Flahault
Cyanophyceae	<i>Heteroleibleinia pusilla</i> (Hansgirg) Compère nom. illeg.
Cyanophyceae	<i>Komvophoron breve</i> (N.Carter) Anagnostidis
Cyanophyceae	<i>Komvophoron minutum</i> (Skuja) Anagnostidis & Komárek
Cyanophyceae	<i>Leibleinia epiphytica</i> (Hieronymus) Compère
Cyanophyceae	<i>Lemmermanniella</i> spp
Cyanophyceae	<i>Leptolyngbya angustissima</i> (West & G.S.West) Anagnostidis & Komárek
Cyanophyceae	<i>Leptolyngbya</i> cf. <i>tenuis</i> (Gomont) Anagnostidis & Komárek
Cyanophyceae	<i>Leptolyngbya foveolarum</i> (Gomont) Anagnostidis & Komárek
Cyanophyceae	<i>Leptolyngbya lagerheimii</i> (Gomont ex Gomont) Anagnostidis & Komárek
Cyanophyceae	<i>Leptolyngbya orientalis</i> (G.S.West) Anagnostidis & Komárek
Cyanophyceae	<i>Leptolyngbya perelegans</i> (Lemmermann) Anagnostidis & Komárek 1988
Cyanophyceae	<i>Leptolyngbya</i> spp
Cyanophyceae	<i>Leptolyngbya subtilis</i> (West) Anagnostidis
Cyanophyceae	<i>Limnococcus limneticus</i> (Lemmermann) Komárková, Jezberová, O.Komárek & Zapomelová
Cyanophyceae	<i>Limnothrix bicudo</i> Azevedo & C.A. de Souza
Cyanophyceae	<i>Limnothrix redekei</i> (Goor) Meffert
Cyanophyceae	<i>Lyngbya martensiana</i> Meneghini ex Gomont
Cyanophyceae	<i>Lyngbya</i> spp
Cyanophyceae	<i>Merismopedia</i> cf. <i>trolleri</i> Bachmann
Cyanophyceae	<i>Merismopedia duplex</i> Playfair
Cyanophyceae	<i>Merismopedia glauca</i> (Ehrenberg) Kützing
Cyanophyceae	<i>Merismopedia insignis</i> Skorbatov
Cyanophyceae	<i>Merismopedia</i> spp
Cyanophyceae	<i>Merismopedia tenuissima</i> Lemmermann
Cyanophyceae	<i>Merismopedia tranquilla</i> (Ehrenberg) Trevisan
Cyanophyceae	<i>Microcystis aeruginosa</i> (Kützing) Kützing
Cyanophyceae	<i>Microcystis flosaquae</i> (Wittrock) Kirchner
Cyanophyceae	<i>Microcystis panniformis</i> Komárek, Komárková-Legnerová, Sant'Anna, M.T.P.Azevedo, & P.A.C.Senna
Cyanophyceae	<i>Microcystis protocystis</i> W.B.Crow
Cyanophyceae	<i>Microcystis smithii</i> Komárek & Anagnostidis
Cyanophyceae	<i>Microcystis</i> spp
Cyanophyceae	<i>nathece clathrata</i> (West & G.S.West) Komárek, Kastovsky & Jezberová
Cyanophyceae	<i>Nostoc</i> spp

Class	Taxa
Cyanophyceae	<i>Oscillatoria annae</i> Goor
Cyanophyceae	<i>Oscillatoria curviceps</i> C.Agardh ex Gomont
Cyanophyceae	<i>Oscillatoria proboscidea</i> Gomont
Cyanophyceae	<i>Oscillatoria sancta</i> Kützing ex Gomont
Cyanophyceae	<i>Oscillatoria simplicissima</i> Gomont
Cyanophyceae	<i>Oscillatoria</i> spp
Cyanophyceae	<i>Oscillatoria subbrevis</i> Schmidle
Cyanophyceae	Oscillatoriales spp
Cyanophyceae	<i>Phormidium allorgei</i> (Frémy) Anagnostidis & Komárek
Cyanophyceae	<i>Phormidium chalybeum</i> (Mertens ex Gomont) Anagnostidis & Komárek
Cyanophyceae	<i>Phormidium tergestinum</i> (Rabenhorst ex Gomont) Anagnostidis & Komárek
Cyanophyceae	<i>Planktolyngbya limnetica</i> (Lemmermann) Komárková-Legnerová & Cronberg
Cyanophyceae	<i>Planktolyngbya minor</i> (Geitler & Ruttner) Komárek & Cronberg
Cyanophyceae	<i>Planktolyngbya</i> spp
Cyanophyceae	<i>Porphyrosiphon ceylanicus</i> (Wille) Anagnostidis & Komárek
Cyanophyceae	<i>Potamolinea aerugineocaerulea</i> (Gomont) M.D.Martins & L.H.Z.Branco
Cyanophyceae	<i>Pseudanabaena</i> cf. <i>moniliformis</i> Komárek & Kling
Cyanophyceae	<i>Pseudanabaena moniliformis</i> Komárek & Kling
Cyanophyceae	<i>Pseudanabaena</i> spp
Cyanophyceae	<i>Raphidiopsis mediterranea</i> Skuja
Cyanophyceae	<i>Raphidiopsis raciborskii</i> (Woloszynska) Aguilera, Berrendero Gómez, Kastovsky, Echenique & Salerno
Cyanophyceae	<i>Rhabdoderma</i> cf. <i>lineare</i> Schmidle & Lauterborn
Cyanophyceae	<i>Rhabdoderma lineare</i> Schmidle & Lauterborn
Cyanophyceae	<i>Rhabdoderma</i> spp
Cyanophyceae	<i>Rhabdogloea minuta</i> B.Hickel
Cyanophyceae	<i>Sphaerocavum brasiliense</i> De Azevedo & C.L.Sant' Anna
Cyanophyceae	<i>Spirulina</i> spp
Cyanophyceae	<i>Synechococcus ambiguus</i> Skuja
Cyanophyceae	<i>Synechococcus capitatus</i> A.E.Bailey-Watts & Komárek
Cyanophyceae	<i>Synechococcus elongatus</i> (Nägeli) Nägeli
Cyanophyceae	<i>Synechococcus nidulans</i> (Pringsheim) Komárek
Cyanophyceae	<i>Synechococcus sigmoideus</i> (G.T.Moore & N.Carter) Komárek
Cyanophyceae	<i>Synechococcus</i> spp
Cyanophyceae	<i>Synechocystis aquatilis</i> Sauvageau
Cyanophyceae	<i>Synechocystis diplococca</i> (Pringsheim) Bourrelly
Cyanophyceae	<i>Synechocystis minima</i> Woronichin
Cyanophyceae	<i>Synechocystis</i> spp
Cyanophyceae	<i>Tolypothrix</i> spp
Cyanophyceae	<i>Tychonema bornetii</i> (Zukal) Anagnostidis & Komárek
Cyanophyceae	<i>Wollea ambigua</i> (C.B.Rao) R.Y.Singh
Cyanophyceae	<i>Woronichinia naegeliana</i> (Unger) Elenkin
Dinophyceae	<i>Parvodinium africanum</i> (Lemmermann) Carty

Class	Taxa
Dinophyceae	<i>Parvodinium umbonatum</i> (F.Stein) Carty
Dinophyceae	<i>Peridinium gutwinskii</i> Woloszynska
Dinophyceae	<i>Peridinium</i> spp
Euglenophyceae	<i>Euglena gracilis</i> G.A.Klebs
Euglenophyceae	<i>Euglena minuta</i> Prescott
Euglenophyceae	<i>Euglena splendens</i> P.A.Dangeard
Euglenophyceae	<i>Euglena</i> spp
Euglenophyceae	<i>Lepocinclis acus</i> (O.F.Müller) B.Marin & Melkonian
Euglenophyceae	<i>Lepocinclis ovum</i> (Ehrenberg) Lemmermann
Euglenophyceae	<i>Lepocinclis spirogyroides</i> B.Marin & Melkonian
Euglenophyceae	<i>Lepocinclis</i> spp
Euglenophyceae	<i>Monomorphina pyrum</i> (Ehrenberg) Mereschkowsky
Euglenophyceae	<i>Phacus</i> cf. <i>polytrophos</i> Pochmann
Euglenophyceae	<i>Phacus contortus</i> Bourrelly
Euglenophyceae	<i>Phacus curvicauda</i> Svirenko
Euglenophyceae	<i>Phacus hamatus</i> Pochmann
Euglenophyceae	<i>Phacus limnophilus</i> (Lemmermann) E.W.Linton & Karnkowska
Euglenophyceae	<i>Phacus longicauda</i> (Ehrenberg) Dujardin
Euglenophyceae	<i>Phacus salinus</i> (F.E.Fritsch) E.W.Linton & Karnkowska
Euglenophyceae	<i>Phacus</i> spp
Euglenophyceae	<i>Phacus tortus</i> (Lemmermann) Skvortsov
Euglenophyceae	<i>Strombomonas jaculata</i> (T.C.Palmer) Deflandre
Euglenophyceae	<i>Strombomonas ovalis</i> (Playfair) Deflandre
Euglenophyceae	<i>Strombomonas</i> spp
Euglenophyceae	<i>Trachelomonas armata</i> (Ehrenberg) F.Stein
Euglenophyceae	<i>Trachelomonas armata</i> var. <i>steinii</i> Lemmermann
Euglenophyceae	<i>Trachelomonas hispida</i> (Perty) F.Stein
Euglenophyceae	<i>Trachelomonas</i> spp
Euglenophyceae	<i>Trachelomonas volvocina</i> (Ehrenberg) Ehrenberg
Euglenophyceae	<i>Trachelomonas volvocinopsis</i> Svirenko
Klebsormidiophyceae	<i>Elakatothrix</i> spp
Oedogoniophyceae	<i>Bulbochaete</i> spp
Oedogoniophyceae	<i>Oedogonium</i> spp
Rhodophyceae	<i>Compsopogon</i> spp
Trebouxiophyceae	<i>Botryococcus braunii</i> Kützing
Trebouxiophyceae	<i>Botryococcus</i> spp
Trebouxiophyceae	<i>Chlorella</i> spp
Trebouxiophyceae	<i>Chlorella vulgaris</i> Beyerinck [Beijerinck]
Trebouxiophyceae	<i>Choricystis</i> spp
Trebouxiophyceae	<i>Closteriopsis acicularis</i> (Chodat) J.H.Belcher & Swale
Trebouxiophyceae	<i>Coronastrum</i> cf. <i>ellipsoideum</i> Fott
Trebouxiophyceae	<i>Crucigenia fenestrata</i> (Schmidle) Schmidle
Trebouxiophyceae	<i>Crucigenia</i> spp



Class	Taxa
Trebouxiophyceae	<i>Dictyosphaerium ehrenbergianum</i> Nägeli
Trebouxiophyceae	<i>Dictyosphaerium subsolitarium</i> Van Goor
Trebouxiophyceae	<i>Didymocystis inermis</i> (Fott) Fott
Trebouxiophyceae	<i>Keratococcus suecicus</i> Hindák
Trebouxiophyceae	<i>Koliella longiseta</i> (Vischer) Hindák
Trebouxiophyceae	<i>Koliella longiseta</i> f. <i>tenuis</i> Nygaard
Trebouxiophyceae	<i>Lemmermannia tetrapedia</i> (Kirchner) Lemmermann
Trebouxiophyceae	<i>Micractinium pusillum</i> Fresenius
Trebouxiophyceae	<i>Mucidosphaerium pulchellum</i> (H.C.Wood) C.Bock, Proschold & Krienitz
Trebouxiophyceae	<i>Nephrocytium agardhianum</i> Nägeli
Trebouxiophyceae	<i>Nephrocytium limneticum</i> (G.M.Smith) G.M.Smith
Trebouxiophyceae	<i>Nephrocytium lunatum</i> West
Trebouxiophyceae	<i>Nephrocytium schilleri</i> (Kammerer) Comas González
Trebouxiophyceae	<i>Nephrocytium</i> spp
Trebouxiophyceae	<i>Oocystis lacustris</i> Chodat
Trebouxiophyceae	<i>Oocystis</i> spp
Trebouxiophyceae	<i>Pachycladella</i> cf. <i>zatoriensis</i> (Bednarz & Mrozinska-Webb) Komárek
Trebouxiophyceae	<i>Pseudococcomyxa chodatii</i> (Jaag) Kostikov, Darienko & Hoffmann
Trebouxiophyceae	<i>Willea neglecta</i> (Fott & H.Ettl) D.M.John, M.J.Wynne & P.M.Tsarenko
Trebouxiophyceae	<i>Willea rectangularis</i> (A.Braun) D.M.John, M.J.Wynne & P.M.Tsarenko
Ulotricophyceae	<i>Chaetosphaeridium globosum</i> (Nordstedt) Klebahn
Ulotricophyceae	<i>Chaetosphaeridium pringsheimii</i> Klebahn
Ulotricophyceae	<i>Coleochaete irregularis</i> Pringsheim
Ulotricophyceae	<i>Coleochaete orbicularis</i> Pringsheim
Ulotricophyceae	<i>Coleochaete soluta</i> (Brébisson) Pringsheim
Ulotricophyceae	<i>Stigeoclonium</i> cf. <i>aestivale</i> (Hazen) Collins
Ulotricophyceae	<i>Stigeoclonium</i> spp
Ulotricophyceae	<i>Ulothrix tenerrima</i> (Kützing) Kützing
Ulotricophyceae	Ulotricophyceae spp
Ulotricophyceae	<i>Ulvella/Pseudulvella</i> spp
Xanthophyceae	<i>Centrtractus africanus</i> F.E.Fritsch & M.F.Rich
Xanthophyceae	<i>Centrtractus belonophorus</i> (Schmidle) Lemmermann
Xanthophyceae	<i>Goniochloris mutica</i> (A.Braun) Fott
Xanthophyceae	<i>Tetraëdron gracile</i> (Reinsch) Hansgirg
Zygnemaphyceae	<i>Actinotaenium perminutum</i> (G.S.West) Teiling
Zygnemaphyceae	<i>Actinotaenium</i> spp
Zygnemaphyceae	<i>Actinotaenium wollei</i> (West & G.S.West) Teiling ex Ruzika & Pouzar
Zygnemaphyceae	<i>Closterium kuetzingii</i> Brébisson
Zygnemaphyceae	<i>Closterium setaceum</i> Ehrenberg ex Ralfs
Zygnemaphyceae	<i>Closterium</i> spp
Zygnemaphyceae	<i>Cosmarium asphaerosporum</i> var. <i>strigosum</i> Nordstedt
Zygnemaphyceae	<i>Cosmarium bioculatum</i> Brébisson ex Ralfs
Zygnemaphyceae	<i>Cosmarium</i> cf. <i>capitulum</i> J.Roy & Bisset
Zygnemaphyceae	<i>Cosmarium contractum</i> var. <i>minutum</i> (Delponte) Coesel

Class	Taxa
Zygnemaphyceae	<i>Cosmarium lobatum</i> var. <i>ellipticum</i> Fritsch & M.F.Rich
Zygnemaphyceae	<i>Cosmarium ornatum</i> Ralfs ex Ralfs
Zygnemaphyceae	<i>Cosmarium pseudobroomei</i> Wolle
Zygnemaphyceae	<i>Cosmarium pseudoconnatum</i> Nordstedt
Zygnemaphyceae	<i>Cosmarium quadratulum</i> (F.Gay) De Toni
Zygnemaphyceae	<i>Cosmarium quadrum</i> P.Lundell
Zygnemaphyceae	<i>Cosmarium sphagnicolum</i> West & West var. <i>apertum</i> (Skuja) Forster
Zygnemaphyceae	<i>Cosmarium</i> spp
Zygnemaphyceae	<i>Desmidium baileyi</i> (Ralfs) Nordstedt
Zygnemaphyceae	<i>Euastrum abruptum</i> Nordstedt
Zygnemaphyceae	<i>Euastrum amoenum</i> F.Gay
Zygnemaphyceae	<i>Euastrum evolutum</i> (Nordstedt) West & G.S.West
Zygnemaphyceae	<i>Euastrum gayanum</i> De Toni
Zygnemaphyceae	<i>Euastrum</i> spp
Zygnemaphyceae	<i>Gonatozygon</i> spp
Zygnemaphyceae	<i>Hyalotheca mucosa</i> Ralfs
Zygnemaphyceae	<i>Hyalotheca</i> spp
Zygnemaphyceae	<i>Micrasterias pinnatifida</i> Ralfs
Zygnemaphyceae	<i>Mougeotia</i> spp
Zygnemaphyceae	<i>Sphaeroszma laeve</i> (Nordstedt) Thomasson
Zygnemaphyceae	<i>Spirogyra</i> spp
Zygnemaphyceae	<i>Spondylosium moniliforme</i> P.Lundell
Zygnemaphyceae	<i>Spondylosium panduriforme</i> (Heimerl) Teiling
Zygnemaphyceae	<i>Staurastrum excavatum</i> West & G.S.West
Zygnemaphyceae	<i>Staurastrum forficulatum</i> var. <i>minus</i> (F.E.Fritsch & M.F.Rich) Grönblad & A.M.Scott
Zygnemaphyceae	<i>Staurastrum gracile</i> Ralfs ex Ralfs
Zygnemaphyceae	<i>Staurastrum indentatum</i> West & G.S.West
Zygnemaphyceae	<i>Staurastrum laeve</i> Ralfs
Zygnemaphyceae	<i>Staurastrum leptocladum</i> f. <i>africanum</i> G.S.West
Zygnemaphyceae	<i>Staurastrum leptocladum</i> Nordstedt
Zygnemaphyceae	<i>Staurastrum leptocladum</i> var. <i>cornutum</i> Wille
Zygnemaphyceae	<i>Staurastrum margaritaceum</i> Meneghini ex Ralfs
Zygnemaphyceae	<i>Staurastrum micron</i> West & G.S.West
Zygnemaphyceae	<i>Staurastrum muticum</i> Brébisson ex Ralfs
Zygnemaphyceae	<i>Staurastrum quadrangulare</i> var. <i>armatum</i> West & G.S.West
Zygnemaphyceae	<i>Staurastrum quadrinotatum</i> Grönblad
Zygnemaphyceae	<i>Staurastrum rotula</i> Nordstedt
Zygnemaphyceae	<i>Staurastrum setigerum</i> Cleve
Zygnemaphyceae	<i>Staurastrum smithii</i> Teiling
Zygnemaphyceae	<i>Staurastrum</i> spp
Zygnemaphyceae	<i>Staurastrum tetracerum</i> Ralfs ex Ralfs
Zygnemaphyceae	<i>Stauroidesmus controversus</i> (West & G.S.West) Teiling

Class	Taxa
Zygnemaphyceae	<i>Stauroidesmus controversus</i> var. <i>crassus</i> (West & G.S.West) Coesel & Meesters
Zygnemaphyceae	<i>Stauroidesmus cuspidatus</i> (Brébisson) Teiling
Zygnemaphyceae	<i>Stauroidesmus dejectus</i> (Brébisson) Teiling
Zygnemaphyceae	<i>Stauroidesmus dickiei</i> (Ralfs) S.Lillieroth
Zygnemaphyceae	<i>Stauroidesmus hebridarus</i> (West & G.S.West) Kurt Förster
Zygnemaphyceae	<i>Stauroidesmus indentatus</i> var. <i>rectangularis</i> (Scott & Grönblad) Teiling
Zygnemaphyceae	<i>Stauroidesmus lobatus</i> (Børgesen) Bourrelly
Zygnemaphyceae	<i>Stauroidesmus mamillatus</i> (Nordstedt) Teiling
Zygnemaphyceae	<i>Stauroidesmus octocornis</i> (Ehrenberg ex Ralfs) Stastny, Skaloud & Neustupa
Zygnemaphyceae	<i>Stauroidesmus patens</i> (Nordstedt) Croasdale
Zygnemaphyceae	<i>Stauroidesmus quiriferus</i> var. <i>evolutus</i> (Fritsch & Rich) Teil
Zygnemaphyceae	<i>Stauroidesmus spencerianus</i> var. <i>triangulatus</i> (Willi Krieger) Teiling
Zygnemaphyceae	<i>Stauroidesmus</i> spp
Zygnemaphyceae	<i>Stauroidesmus</i> spp
Zygnemaphyceae	<i>Stauroidesmus subulatus</i> (Kützing) Croasdale
Zygnemaphyceae	<i>Teilingia granulata</i> (J.Roy & Bisset) Bourrelly
Zygnemaphyceae	<i>Xanthidium concinnum</i> W.Archer
Zygnemaphyceae	<i>Xanthidium smithii</i> W.Archer
Zygnemaphyceae	<i>Xanthidium</i> spp
Zygnemaphyceae	<i>Xanthidium trilobum</i> Nordstedt

**Tabela 2.** Lista das 25 publicações no estado do Espírito Santo sobre microalgas e cianobactérias em ecossistemas aquáticos continentais entre os anos 1990 e 2020.

**Table 2.** List of 25 publications in the state of Espírito Santo on microalgae and cyanobacteria in continental aquatic ecosystems between the years 1990 and 2020.

Ano	Jornal	Autores
1990	Revista Brasileira de Biologia	Huszar VLM; Silva LHS; Esteves FA
1992	Acta Limnologica Brasiliensia	Bozelli RL; Esteves FA; Roland F; Suzuki MS
1994	Anais III Simpósio de Ecossistemas	Dias Junior C
1995	Cadernos de Pesquisa da UFES	Dias Junior C
1998	Internationale Vereinigung für theoretische und angewandte Limnologie: Verhandlungen	Dias Junior C; Barroso GF
1999	Algological Studies	Senna PAC; Delazari A; Sant'Anna CL
2006	Neotropical Biology and Conservation	Martins FCO; Fernandes VO
2007	Hoehnea	Delazari-Barroso A; Sant'Anna CL; Senna PAC
2007	Neotropical Biology and Conservation	Martins FCO; Fernandes VO
2008	Acta Scientiarum - Biological Sciences	Cavati B; Fernandes VO

<b>Ano</b>	<b>Jornal</b>	<b>Autores</b>
2009	Lakes & reservoirs: Research and Management	Delazari-Barroso A; Barroso GF; Huszar VLM; Azevedo SMFO
2009	Oecologia Brasiliensis	Fernandes VO; Cavati B; Souza BD; Machado RG; Costa AG
2009	Acta Scientiarum - Biological Sciences	Souza BD; Fernandes VO
2010	Revista Científica Faesa	Delazari-Barroso A; Oliveira FF; Marques MAM. Santos SM. Brêda F; Perim CAB
2011	Neotropical Biology and Conservation	Delazari-Barroso A; Giavarini K; Miranda TO; Sterza JM
2011	Brazilian Journal of Aquatic Science and Technology	Martins FCO; Fernandes VO
2011	Revista Científica Faesa	Smiderle-Schade B; Có DNSC; Delazari-Barroso A
2012	Acta Limnologica Brasiliensia	Zorzal-Almeida S; Fernandes VO
2013	Acta Scientiarum - Biological Sciences	Zorzal-Almeida S; Fernandes VO
2013	Brazilian Journal of Botany	Pereira TA; Felisberto AS; Fernandes VO
2013	Acta Scientiarum - Biological Sciences	Pereira TA; Felisberto AS; Fernandes VO
2014	Aquaculture Research	Venturoti GP; Veronez AC; Salla RV; Gomes LC
2014	Neotropical Biology and Conservation	Zorzal-Almeida S; Fernandes VO
2016	Natureza Online	Mendes NGS; Costa AG
2017	Environmental Science of Pollution Research	Duarte ID; Silva NHVF; Souza IC; Oliveria LB; Rocha LD; Morozesk M; Bonomo MM; Pereira TA; Dias MC; Fernandes VO; Matsumoto ST