Supplementary material. - Taxa list for live and non-living substratum from Laguna de Terminos, Campeche.

|  |  |
| --- | --- |
|  | Sustrato |
| Taxa | Live | Non-living |
| *Achnantheiopsis frequentissima* (Lange-Bertalot) Lange-Bertalot | ❋ | ❋ |
| *Achnanthes bioselattiana* Cleve-Euler |  | ❋ |
| *Achnanthes* cf. *brevipes* H. Peragallo & M. Peragallo |  | ❋ |
| *Achnanthes* cf. *hyperboreoides* Witkowski, Metzeltin & Lange-Bertalot | ❋ | ❋ |
| *Achnanthes* cf. *pseudobliqua* Simonsen | ❋ |  |
| *Achnanthes delicatissima* Simonsen | ❋ |  |
| *Achnanthes linearis* (W. Smith) Grunow |  | ❋ |
| *Achnanthes valida* Hustedt ex Simonsen |  | ❋ |
| *Achnanthes ventralis* (Krasske) Lange-Bertalot | ❋ | ❋ |
| *Achnanthidium petersenii* (Hustedt) C. E. Wetzel, L. Ector, D. M. Williams & I. Jüttner | ❋ | ❋ |
| *Actinodiscus tener* Gr. & St. | ❋ |  |
| *Adlafia minuscula* (Grunow) Lange-Bertalot |  | ❋ |
| *Ambo tenuissimus* (Hustedt) A. Witkowski, Lange-Bertalot & M. Ashworth | ❋ | ❋ |
| *Amicula specululum* (Witkowski) Witkowski | ❋ | ❋ |
| *Amphicocconeis* cf. *disculoides* (Hustedt) Stefano & Marino | ❋ | ❋ |
| *Amphicocconeis discrepans* (A. W. F. Schmidt) Riaux-Gobin, Witkowski, Ector & Igersheim |  | ❋ |
| *Amphicocconeis disculoides* (Hustedt) Stefano & Marino | ❋ |  |
| *Amphora abludens* Simonsen  |  | ❋ |
| *Amphora amoena* Hustedt | ❋ |  |
| *Amphora angusta* W. Gregory |  | ❋ |
| *Amphora bigibba* Grunow | ❋ |  |
| *Amphora* cf. *mexicana* A. W. F. Schmidt f. *minimum* |  | ❋ |
| *Amphora* cf. *pannucea* M. H. Griffen |  | ❋ |
| *Amphora cingulata* Pantocsek |  | ❋ |
| *Amphora coffaeiformis* (C. Agardh) Kützing | ❋ | ❋ |
| *Amphora constricta* (Ehrenberg) W. Carruthers |  | ❋ |
| *Amphora delicatissima* Krasske |  | ❋ |
| *Amphora fluminensis* Grunow | ❋ |  |
| *Amphora graeffeana* Hendey |  | ❋ |
| *Amphora hamata* Heiden | ❋ | ❋ |
| *Amphora helenensis* M. H. Giffen | ❋ | ❋ |
| *Amphora hyalina* var. *inpalpabilis* Proshkina-Lavrenko | ❋ | ❋ |
| *Amphora immarginata* Nagumo |  | ❋ |
| *Amphora laevissima* var. *perminuta* Grunow | ❋ | ❋ |
| *Amphora langebaanae* M. H. Giffen |  | ❋ |
| *Amphora lineolata* Ehrenberg |  | ❋ |
| *Amphora proteus* W. Gregory | ❋ | ❋ |
| *Amphora* sp.1 | ❋ | ❋ |
| *Amphora tenerrima* Aleem & Hustedt |  | ❋ |
| *Astartiella* cf. *bahuensis* (Grunow) Witkowski, Lange-Bertalot & Metzeltin |  | ❋ |
| *Astartiella* cf. *bahusiensoides* (Foged) Witkowski, Lange-Bertalot & Metzeltin | ❋ |  |
| *Berkeleya fragilis* Greville | ❋ |  |
| *Berkeleya rutilans* (Trentepohl ex Roth) Grunow | ❋ | ❋ |
| *Berkeleya scopulorum* (Brébisson ex Kützing) E. J. Cox | ❋ | ❋ |
| *Biremis ambigua* (Cleve) D. G. Mann |  | ❋ |
| *Biremis circumtexta* (Meister ex Hustedt) Lange-Bertalot & Witkowski | ❋ |  |
| *Brachysira estonarium* Witkowski, Lange-Bertalot & Metzeltin | ❋ |  |
| *Caloneis excentrica* (Grunow) Boyer | ❋ |  |
| *Caloneis liber* (W. Smith) Cleve | ❋ | ❋ |
| *Campylodiscus* cf. *bicostatus* W. Smith | ❋ |  |
| *Campylopyxis germainii* D. G. Mann |  | ❋ |
| *Campylosira* sp.1 |  | ❋ |
| *Catenula adhaerens* (Mereschkowsky) Mereschkowsky |  | ❋ |
| *Chamaepinnularia alexandrowiczii* Witkowski, Lange-Bertalot & Metzeltin |  | ❋ |
| *Chamaepinnularia clamans* (Hustedt) Witkowski, Lange-Bertalot & Metzeltin | ❋ | ❋ |
| *Chamaepinnularia soehrensis* (Krasske) Lange-Bertalot & Krammer | ❋ | ❋ |
| *Cocconeiopsis patrickae* (Hustedt) A.Witkowski, Lange-Bertalot & Metzeltin |  | ❋ |
| *Cocconeis* cf. *distans* W. Gregory | ❋ |  |
| *Cocconeis guttata* Hustedt & Aleem |  | ❋ |
| *Cocconeis krammeri* Lange-Bertalot & Metzeltin | ❋ |  |
| *Cocconeis placentula* Ehrenberg | ❋ | ❋ |
| *Cocconeis pseudonotata* M. De Stefano & D. Marino | ❋ | ❋ |
| *Cocconeis scutellum* Ehrenberg  | ❋ | ❋ |
| *Cocconeis* sp.2 | ❋ |  |
| *Cocconeis* sp.3 | ❋ |  |
| *Cocconeis thalassiana* O. E. Romero & F. O. López-Fuerte | ❋ |  |
| *Craticula halophila* (Grunow) D. G. Mann | ❋ |  |
| *Craticula sardiniana* Bahls |  | ❋ |
| *Cyclotella atomus* Hustedt | ❋ | ❋ |
| *Cyclotella bomba* Serieyssol |  | ❋ |
| *Cyclotella* cf. *striata* var. *mucronulata* Chi & Chang | ❋ | ❋ |
| *Cyclotella stylorum* Brightwell | ❋ | ❋ |
| *Cymatosira belgica* Grunow | ❋ | ❋ |
| *Cymatosira lorenziana* Grunow | ❋ | ❋ |
| *Delphineis minutissima* (Hustedt) Simonsen |  | ❋ |
| *Delphineis surirella* (Ehrenberg) G. W. Andrews |  | ❋ |
| *Dickieia subinflata* (Grunow) D.G.Mann |  | ❋ |
| *Diploneis* cf. *suborbicularis* (W. Gregory) Cleve |  | ❋ |
| *Diploneis smithii* (Brébisson) Cleve | ❋ |  |
| *Diploneis* *vacillans* (A. W. F. Schmidt) Cleve | ❋ | ❋ |
| *Entomoneis* cf. *paludosa* var. *duplex* (Donkin) Czarnecki & Reinke | ❋ |  |
| *Entomoneis* cf. *tenera* Mejdandzic & Bosak |  | ❋ |
| *Entomoneis paludosa* (W. Smith) Reimer var. *hyalina* | ❋ |  |
| *Entomoneis tenuistriata* John  |  | ❋ |
| *Epithemia pacifica* (Krammer) Lobban & J.S.Park | ❋ |  |
| *Eunotogramma laeve* Grunow |  | ❋ |
| *Eunotogramma marinum* (W.Smith) H. Peragallo & M. Peragallo |  | ❋ |
| *Eunotogramma* sp.1 |  | ❋ |
| *Fallacia* cf. *schaeferae* (Hustedt) D. G. Mann |  | ❋ |
| *Fallacia forcipata* (Greville) Stickle & D. G. Mann | ❋ | ❋ |
| *Fallacia hummii* (Hustedt) D. G. Mann | ❋ | ❋ |
| *Fallacia litoricola* (Hustedt) D. G. Mann | ❋ | ❋ |
| *Fallacia marginopunctata* Sabbe & Vyverman |  | ❋ |
| *Fallacia nicobarica* (Grunow) Witkowski, Lange-Bertalot & Metzeltin var.? |  | ❋ |
| *Fallacia schaeferae* (Hustedt) D. G. Mann | ❋ | ❋ |
| *Fistulifera saprophila* (Lange-Bertalot & Bonik) Lange-Bertalot | ❋ | ❋ |
| *Fragilariopsis doliolus* (Wallich) Medlin & P. A. Sims |  | ❋ |
| *Frustulia interposita* (Lewis) De Toni |  | ❋ |
| *Grammatophora angulosa* var. *pacifica* A. Cleve |  | ❋ |
| *Grammatophora marina* (Lyngbye) Kützing | ❋ |  |
| *Grammatophora oceanica* Ehrenberg | ❋ | ❋ |
| *Gyrosigma balticum* (Ehrenberg) Rabenhorst |  | ❋ |
| *Halamphora acutiuscula* (Kützing) Levkov | ❋ | ❋ |
| *Halamphora aponina* (Kützing) Levkov | ❋ | ❋ |
| *Halamphora atacamana* (Patrick) Levkov | ❋ |  |
| *Halamphora borealis* (Kützing) Levkov | ❋ |  |
| *Halamphora caribaea* (Wachnicka & E. E. Gaiser) Rimet & R. Jahn | ❋ | ❋ |
| *Halamphora coffeiformis* (C. Agardh) Mereschkowsky |  | ❋ |
| *Halamphora costata* (W. Smith) Levkov | ❋ | ❋ |
| *Halamphora cuneata* (Cleve) Levkov | ❋ |  |
| *Halamphora cymbifera* (W. Gregory) Levkov var. *cymbifera* | ❋ | ❋ |
| *Halamphora cymbifera* var. *heritierarum* (Wachnicka & Gaiser) J. G. Stepanek & Kociolek | *❋* | *❋* |
| *Halamphora eunotia* (Cleve) Levkov |  | ❋ |
| *Halamphora holsatica* (Hustedt) Levkov |  | ❋ |
| *Halamphora hybrida* (Grunow) Levkov | ❋ | ❋ |
| *Halamphora kolbei* (Aleem) Álvarez-Blanco & S.Blanco | ❋ |  |
| *Halamphora semperpalorum* (Wachnicka & E. E. Gaiser) Rimet & R. Jahn |  | ❋ |
| *Halamphora subangularis* (Hustedt) Levkov  | ❋ |  |
| *Halamphora tenerrima* (Aleem & Hustedt) Levkov | ❋ | ❋ |
| *Halamphora terroris* (Ehrenberg) P. Wang | ❋ | ❋ |
| *Haslea howeana* (Hagelstein) Giffen | ❋ | ❋ |
| *Haslea ostrearia* (Gaillon) Simonsen | ❋ | ❋ |
| *Haslea staurosigmoidea* F. A. S. Sterrenburg & M. A. Tiffany | ❋ | ❋ |
| *Haslea stundii* (Hustedt) Blanco, Borrego-Ramos & Olenici |  | ❋ |
| *Hyalosynedra laevigata* (Grunow) D. M. Williams & Round | ❋ | ❋ |
| *Karayevia amoena* (Hustedt) Bukhtiyarova | ❋ |  |
| *Licmophora abbrebiata* C. Agardh  | ❋ | ❋ |
| *Licmophora normaniana* (Greville) Wahrer | ❋ |  |
| *Licmophora paradoxa* (Lyngbye) C. Agardh | ❋ |  |
| *Licmophora remulus* (Grunow) Grunow | ❋ |  |
| *Mastogloia apiculata* W. Smith | ❋ | ❋ |
| *Mastogloia biocellata* (Grunow) G. Novarino & A. R. Muftah |  | ❋ |
| *Mastogloia braunii* Grunow | ❋ | ❋ |
| *Mastogloia* cf. *fallax* Cleve | ❋ |  |
| *Mastogloia crucicula* (Grunow) Cleve | ❋ | ❋ |
| *Mastogloia erythraea* Grunow f. 1 | ❋ | ❋ |
| *Mastogloia erythraea* Grunow f. 2 | ❋ | ❋ |
| *Mastogloia erythraea* Grunow f. 3 |  | ❋ |
| *Mastogloia lanceolata* Thwaites ex W. Smith |  | ❋ |
| *Mastogloia modesta* Voigt |  | ❋ |
| *Mastogloia ovalis* A. W. F. Schmidt | ❋ | ❋ |
| *Mastogloia pumila* (Grunow) Cleve | ❋ | ❋ |
| *Mastogloia punctifera* Brun |  | ❋ |
| *Mastogloia pusilla* Grunow var. *pusilla*  | ❋ | ❋ |
| *Mastogloia pusilla* var. *subcapitata* Hustedt | ❋ | ❋ |
| *Mastogloia similis* Hustedt | ❋ | ❋ |
| *Mastogloia* sp.1 |  | ❋ |
| *Melosira* cf. *moniliformis* C. Agardh | ❋ | ❋ |
| *Nagumoena neritica* Witkowski & Kociolek | ❋ |  |
| *Navicula agnita* Hustedt | ❋ | ❋ |
| *Navicula aleksandrae* Lange-Bertalot, Bogaczewicz-Adamczak & Witkowski | ❋ | ❋ |
| *Navicula ammophila* Grunow | ❋ | ❋ |
| *Navicula apta* Hustedt | ❋ | ❋ |
| *Navicula arenaria* Donkin var. *arenaria* | ❋ |  |
| *Navicula arenaria* var. *rostellata* Lange-Bertalot |  | ❋ |
| *Navicula cancellata* Donkin | ❋ |  |
| *Navicula* cf. *abunda* Hustedt | ❋ | ❋ |
| *Navicula* cf. *borealis* (Ehrenberg) Kützing |  | ❋ |
| *Navicula* cf. *diserta* Hustedt |  | ❋ |
| *Navicula* cf. *flagellifera* Hustedt | ❋ | ❋ |
| *Navicula* cf. *flanatica* Grunow | ❋ | ❋ |
| *Navicula* cf. *microdigitoradiata* Lange-Bertalot |  | ❋ |
| *Navicula* cf. *perminuta* Grunow |  | ❋ |
| *Navicula* cf. *transistans* Cleve |  | ❋ |
| *Navicula cincta* Pantocsek, nom.illeg. | ❋ | ❋ |
| *Navicula cryptocephala* Kützing var. *cryptocephala* | ❋ |  |
| *Navicula cryptocephala* var. *subsalina* Hustedt |  | ❋ |
| *Navicula directa* (W. Smith) Brébisson | ❋ | ❋ |
| *Navicula dissipata* Salah |  | ❋ |
| *Navicula erifuga* Lange-Bertalot | ❋ | ❋ |
| *Navicula flagellifera* Hustedt |  | ❋ |
| *Navicula flanatica* Grunow | ❋ | ❋ |
| *Navicula gregaria* Donkin |  | ❋ |
| *Navicula lusoria* M. F. Giffen | ❋ |  |
| *Navicula normaloides* Cholnoky |  | ❋ |
| *Navicula pennata* A. W. F. Schmidt |  | ❋ |
| *Navicula perminuta* Grunow | ❋ | ❋ |
| *Navicula phyllepta* Kützing | ❋ | ❋ |
| *Navicula platyventris* F. Meister | ❋ | ❋ |
| *Navicula ramosissima* (C. Agardh) Cleve | ❋ | ❋ |
| *Navicula salinicola* Hustedt |  | ❋ |
| *Navicula* sp.1 |  | ❋ |
| *Navicula* sp.4 |  | ❋ |
| *Navicula* sp.6 | ❋ |  |
| *Navicula tenella* Brébisson ex Kützing | ❋ | ❋ |
| *Navicula veneta* Kützing |  | ❋ |
| *Navicula viminoides* M. F. Giffen |  | ❋ |
| *Neodelphineis silenda* (M. H. Hohn & J. Hellerman) N. Desianti & M. Potapova | ❋ | ❋ |
| *Nitzschia aequorea* Hustedt |  | ❋ |
| *Nitzschia angularis* W. Smith | ❋ | ❋ |
| *Nitzschia aremonica* Archibald |  | ❋ |
| *Nitzschia biacrula* Hohn & Hellermann | ❋ |  |
| *Nitzschia bilobata* W.Smith var. ? |  | ❋ |
| *Nitzschia capitellata* Hustedt | ❋ | ❋ |
| *Nitzschia* cf. *dissipata* (Kützing) Rabenhorst |  | ❋ |
| *Nitzschia dissipata* (Kützing) Rabenhorst | ❋ | ❋ |
| *Nitzschia distans* W.Gregory | ❋ | ❋ |
| *Nitzschia frustulum* (Kützing) Grunow var. *frustulum* | ❋ | ❋ |
| *Nitzschia frustulum* var. *perminuta* Grunow | ❋ | ❋ |
| *Nitzschia grossestriata* Hustedt |  | ❋ |
| *Nitzschia incognita* Lagler & Krasske | ❋ | ❋ |
| *Nitzschia incurva* var. *lorenziana* R.Ross | ❋ | ❋ |
| *Nitzschia laevis* Frenguelli | ❋ | ❋ |
| *Nitzschia lanceolata* var. *incrustans* (Grunow) Grunow |  | ❋ |
| *Nitzschia libertruthii* Rabenhorst | ❋ | ❋ |
| *Nitzschia microcephala* Grunow | ❋ | ❋ |
| *Nitzschia pellucida* Grunow | ❋ | ❋ |
| *Nitzschia prolongata* Huestedt | ❋ | ❋ |
| *Nitzschia pusilla* Grunow |  | ❋ |
| *Nitzschia sicula* var. *bicuneata* (Grunow) Hasle |  | ❋ |
| *Nitzschia sigmaformis* Huestedt | ❋ |  |
| *Nitzschia soratensis* E. A. Morales & M. L. Vis |  | ❋ |
| *Nitzschia* sp.5 | ❋ |  |
| *Nitzschia tubicula* Grunow | ❋ | ❋ |
| *Odontella aurita* (Lyngbey) C. Agardh | ❋ | ❋ |
| *Odontidium* sp.1 | ❋ |  |
| *Opephora minuta* (A. Cleve) Witkowski, Lange-Bertalot & Metzeltin  |  | ❋ |
| *Opephora pacifica* (Grunow) Petit | ❋ |  |
| *Orthoneis cribrosa* (Grunow) Grunow | ❋ |  |
| *Paralia sulcata* f. *major* Cleve-Euler |  | ❋ |
| *Paralia varennarum* (M. Peragallo & Héribaud) Loseva |  | ❋ |
| *Parlibellus delognei* (Van Heurck) E. J. Cox | ❋ | ❋ |
| *Petroneis punctigera* (Hustedt) D. G. Mann |  | ❋ |
| *Pinnularia borealis* Ehrenberg | ❋ |  |
| *Pinnularia yarrensis* (Grunow) H. Okuno | ❋ |  |
| *Plagiotropis lepidoptera* (W. Gregory) Kuntze |  | ❋ |
| *Plagiotropis vitrea* (W.Smith) Grunow |  | ❋ |
| *Planothidium* cf. *hauckianum* (Grunow) Bukhtiyarova | ❋ |  |
| *Planothidium delicatulum* (Kützing) Round & Bukhtiyarova | ❋ |  |
| *Planothidium deperditum* (M. H. Giffen) Witkowski, Lange-Bertalot & Metzeltin |  | ❋ |
| *Pleurosigma distinguendum* Hustedt |  | ❋ |
| *Pleurosigma salinarum* (Grunow) Grunow | ❋ | ❋ |
| *Psammodictyon panduriforme* (W-Gregory) D.G.Mann |  | ❋ |
| *Rhaphoneis castracanei* Grunow |  | ❋ |
| *Rhopalodia constricta* (Brébisson) Krammer | ❋ |  |
| *Rhopalodia musculus* (Kützing) O. Müller | ❋ |  |
| *Seminavis robusta* D. B. Danielidis & D. G. Mann | ❋ | ❋ |
| *Seminavis* sp.1 |  | ❋ |
| *Seminavis strigosa* (Hustedt) Danieledis & Economou-Amilli | ❋ | ❋ |
| *Seminavis ventricosa* (W. Gregory) M. Garcia-Baptista |  | ❋ |
| *Shionodiscus oestrupii* (Ostenfeld) A. J. Alverson, S.-H. Kang & E. C. Theriot | ❋ |  |
| *Staurosira leptostauron* var. *dubia* (Grunow) Edlund | ❋ | ❋ |
| *Staurosirella gunter-grassi* (Witkowski & Lange-Bertalot) E. A. Morales, C. E. Wetzel & Ector | ❋ | ❋ |
| *Staurosirella pinnata* (Ehrenberg) D. M. Williams & Round | ❋ |  |
| *Surirella febigeri* F. W. Lewis |  | ❋ |
| *Tabularia fasiculata* (C. Agardh) D. M. Williams & Round |  | ❋ |
| *Tabularia ktenoeoides* M. Kuylenstierna  | ❋ |  |
| Taxon 2 | ❋ |  |
| Taxon 8 |  | ❋ |
| *Tertiarius pygmaeus* (Pantocsek) Hakansson & Khursevich |  | ❋ |
| *Tetramphora lineolatoides* Stepanek |  | ❋ |
| *Thalassionema nitzschioides* (Grunow) Mereschkowsky | ❋ | ❋ |
| *Thalassiophysa hyalina* (Greville) Paddock & P. A. Sims | ❋ | ❋ |
| *Thalassiosira decipiens* (Grunow ex Van Heurck) E. G. Jorgensen | ❋ |  |
| *Thalassiothrix* sp.1 | ❋ |  |
| *Trachyneis aspera* (Ehrenberg) Cleve | ❋ |  |
| *Tryblionella coarctata* (Grunow) D. G. Mann |  | ❋ |
| *Tryblionella compressa* (Bailey) Poulin |  | ❋ |
| *Tryblionella pararostrata* (Lage-Bertalot) Clavero & Hernández-Mariné | ❋ | ❋ |