

Table S1. Global density (cells mL⁻¹) and biovolume (mm³ m⁻³) of the phytoplankton taxa recorded in Lakes El Sol and La Luna, Nevado de Toluca. (*Navicula* NTA and *N. NTB* according to [12]).

Taxa	Lake El Sol		Lake La Luna	
	Density cells mL ⁻¹	Biomass mm ³ m ⁻³	Density cells mL ⁻¹	Biomass mm ³ m ⁻³
<i>Limnococcus limneticus</i>	198	1 328	< 100	< 1 000
<i>Anabaena</i> cf. <i>lapponica</i>	< 100	< 100	< 100	< 100
<i>Anabaena</i> sp.	< 100	< 1 000	NF	NF
<i>Limnoraphis birgei</i>	< 100	< 1 000	NF	NF
<i>Oscillatoria</i> sp.	< 100	1 117	< 100	< 1 000
<i>Merismopedia</i> sp.	< 100	< 1 000	NF	NF
<i>Synechocystis</i> sp.	390	6 434	107411	348 202
<i>Synechocystis minuscula</i>	< 100	< 1 000	NF	NF
<i>Pseudoanabaena</i> sp.	< 100	< 1 000	NF	NF
<i>Chromulina</i> sp.	1737	5 389	< 100	< 1 000
<i>Chrysococcus minutus</i>	254	3 196	NF	NF
<i>Dinobryon</i> cf. <i>sociale</i>	116	2 677	NF	NF
<i>Ochromonas</i> sp.	1389	5 005	< 100	< 1 000
<i>Mallomonas</i> cf. <i>Acaroides</i>	< 100	< 1 000	NF	NF
<i>Mallomonas</i> sp. 1	< 100	7 692	< 100	3 032
<i>Mallomonas</i> sp. 2	< 100	< 1 000	NF	NF
<i>Aulacoseira nivaloides</i>	< 100	2 512	< 100	< 1 000
<i>Aulacoseira</i> cf. <i>alpigena</i>	< 100	< 1 000	< 100	< 1 000
<i>Cyclotella</i> aff. <i>quillensis</i>	< 100	11 282	< 100	2 063
<i>Cyclotella</i> sp.	125	5 230	< 100	< 1 000
<i>Nitzschia</i> cf. <i>acidoclinata</i>	< 100	< 1 000	< 100	< 1 000
<i>Nitzschia</i> sp.	< 100	30 652	< 100	< 1 000
<i>Achnanthyidium minutissimum</i>	< 100	< 1 000	NF	NF
<i>Psammothidium helveticum</i>	< 100	1 607	< 100	8792
<i>Psammothidium levanderi</i>	< 100	1 275	< 100	< 1 000
<i>Encyonema gracile</i>	< 100	277 178	NF	NF
<i>Encyonema perpusillum</i>	< 100	< 1 000	< 100	346 120
<i>Gomphonema angustatum</i>	< 100	< 1 000	< 100	< 1 000
<i>Staurosira</i> aff. <i>venter</i>	< 100	11 469	< 100	< 100
<i>Staurosira pseudoconstruens</i>	< 100	7 646	< 100	< 1 000
<i>Staurosirella pinnata</i>	< 100	784	< 100	< 1 000
<i>Brachysira</i> sp.	< 100	< 1 000	< 100	< 1 000
<i>Cavinula pseudocutiformis</i>	< 100	24 638	< 100	< 1 000
<i>Frustulia rhomboides</i>	< 100	477 368	< 100	62 315
<i>Navicula</i> NTA	< 100	< 1 000	< 100	2 861
<i>Navicula</i> NTB	< 100	20 343	NF	NF

<i>Pinnularia microstauron</i>	< 100	139 182	< 100	4 585
<i>Pinnularia</i> cf. <i>viridis</i>	< 100	689 818	< 100	48 192
<i>Pinnularia subcapitata</i>	< 100	< 1 000	NF	NF
<i>Pinnularia</i> sp. 1	< 100	< 1 000	< 100	< 1 000
<i>Pinnularia</i> sp. 2	< 100	< 1 000	< 100	< 1 000
<i>Sellaphora</i> sp.	< 100	< 1 000	ND	ND
<i>Stauroneis anceps</i>	< 100	< 1 000	< 100	< 1 000
<i>Stenopterobia</i> sp. 1	< 100	46 620	< 100	19 657
<i>Stenopterobia</i> sp. 2	< 100	69 918	< 100	29 485
<i>Surirella</i> cf. <i>linearis</i>	< 100	557 254	< 100	135 968
<i>Surirella</i> cf. <i>angusta</i>	< 100	14 338	< 100	< 1 000
<i>Surirella</i> sp.	< 100	< 1 000	< 100	< 100
<i>Chrysochromulina</i> aff. <i>parva</i>	8271	52 796	7034	44 899
<i>Chroomonas nordstedt</i>	221	43 233	NF	NF
<i>Chroomonas</i> sp.	< 100	< 1 000	< 100	1 827
<i>Cryptomonas</i> sp. 1	403	473 027	103	8 716
<i>Cryptomonas</i> sp. 2	< 100	< 1 000	< 100	< 1 000
<i>Gymnodinium</i> sp.	< 100	1 997	< 100	412 969
<i>Parvodinium umbonatum</i>	1240	977 427	< 100	343 305
<i>Peridinium</i> cf. <i>volzii</i>	191	5 005	NF	NF
<i>Peridinium williei</i>	< 100	221 574	574	380 545
<i>Euglena</i> sp.	< 100	< 100	NF	NF
<i>Lepocinclis</i> sp.	< 100	473 027	NF	NF
<i>Trachelomonas</i> sp. 1	487	72 592	NF	NF
<i>Trachelomonas</i> sp. 2	< 100	< 1 000	NF	NF
<i>Chlamydomonas</i> sp.1	121	38 042	4007	97 895
<i>Chlamydomonas</i> sp. 2	< 100	107 564	< 100	< 1 000
<i>Carteria</i> sp.	629	130 372	< 100	< 1 000
<i>Gemmellicystis planctonica</i>	6515	316 067	286	13 966
<i>Microglena</i> sp.	< 100	< 100	NF	NF
<i>Palmella</i> sp.	< 100	6 031	< 100	< 1000
<i>Sphaerocystis schroeteri</i>	19 837	1 658 041	907	75913
<i>Oocystis lacustris</i>	64 498	1 213 810	227	4272
<i>Oocystis</i> sp.	139	< 1 000	< 100	NF
<i>Oedogonio</i> sp.	< 100	< 1 000	< 100	< 1 000
<i>Ankistrodesmus</i> sp.	< 100	< 1 000	NF	NF
<i>Coelastrum</i> sp.	< 100	< 1 000	NF	NF
<i>Desmodesmus abundans</i>	< 100	< 1 000	< 100	NF
<i>Desmodesmus spinosus</i>	< 100	< 1 000	NF	NF
<i>Gloeocystis</i> sp.	487	344 793	NF	NF
<i>Monoraphidium minutum</i>	< 100	< 1 000	NF	NF
<i>Monoraphidium obtusum</i>	9 700	2 172 606	< 100	< 1 000

<i>Tetradismus obliquus</i>	< 100	< 1 000	NF	NF
<i>Botryococcus braunii</i>	593	139 858	< 100	< 1 000
<i>Nitella</i> sp.	< 100	ND	NF	NF
<i>Chaetosphaeridium globosum</i>	3 326	9 073	350	1 092
<i>Cosmarium</i> cf. <i>exiguum</i>	< 100	5 273	< 100	1 778
<i>Closterium lunula</i>	< 100	< 1 000	< 100	< 1 000
<i>Closterium</i> sp.	< 100	< 1 000	< 100	< 1 000
<i>Desmidium</i> sp.	< 100	< 1 000	< 100	< 1 000
<i>Euastrum</i> cf. <i>oblongum</i>	< 100	< 1 000	< 100	< 1 000
<i>Micrasterias radiosa</i>	< 100	< 1 000	< 100	< 1 000
<i>Stauroastrum</i> sp.	< 100	< 1 000	< 100	< 1 000
<i>Temnogametum iztacalense</i>	< 100	997 304	< 100	3 062
<i>Spirogyra</i> sp.	< 100	< 1 000	NF	NF
<i>Zygnema</i> sp.	< 100	280 473	< 100	< 1 000