

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência	
Ia. Campanha																													
Cyanophyta																													
Cyanophyceae																													
<i>Anabaenopsis</i> sp.									X																				3,70
<i>Aphanocapsa</i> cf. <i>incerta</i>		X	X		X	X	X				X			X							X		X		X	X			40,74
<i>Aphanocapsa</i> cf. <i>elachista</i>	X	X		X		X		X			X	X					X	X	X	X					X	X			48,15
<i>Aphanothece</i> cf. <i>delicatissima</i>			X																										3,70
<i>Aphanothece</i> sp.													X	X									X						11,11
<i>Chroococcus minimus</i>	X												X	X								X			X				18,52
<i>Coelomoron</i> sp.	X								X					X															11,11
<i>Cylindrospermopsis raciborskii</i>									X																				3,70
<i>Dolichospermum solitaria</i>							X																						3,70
<i>Geitlerinema unigranulatum</i>							X	X	X															X					14,81
<i>Geitlerinema</i> cf. <i>splendida</i>																									X				3,70
<i>Komvophoron schimidlei</i>		X												X	X														3,70
<i>Limnithrix</i> sp.			X	X	X	X	X		X				X	X	X	X				X	X		X	X	X				55,56
<i>Lyngbya</i> sp.				X			X													X									11,11
<i>Mastigocladus laminosus</i>															X														3,70
<i>Merismopedia tenuissima</i>																						X							3,70
<i>Microcystis aeruginosa</i>	X	X	X	X	X						X								X										25,93
<i>Oscillatoria</i> cf. <i>limosa</i>		X	X																										7,41
<i>Phormidium</i> cf. <i>aerugineo-caeruleum</i>	X	X	X	X	X	X		X		X	X										X				X				40,74
<i>Phormidium</i> sp.							X							X				X							X			X	14,81
<i>Planktothrix isothrix</i>	X	X	X	X	X	X		X		X		X	X	X	X			X	X			X		X	X				62,96
<i>Planktothrix</i> sp.		X	X																	X									11,11
<i>Pseudanabaena mucicola</i>	X													X															7,41
<i>Pseudanabaena</i> cf. <i>galeata</i>		X						X																			X		11,11
<i>Pseudanabaena</i> sp.								X					X					X	X	X			X	X	X		X		33,33
<i>Raphidiopsis</i> sp.						X									X														7,41
<i>Sphaerocavum brasiliense</i>				X																									3,70
Chlorophyta																													
Chlorophyceae																													
<i>Actinastum hanztschii</i>	X	X	X		X		X																						18,52
<i>Ankistrodesmus falcatus</i>						X																							3,70
<i>Ankistrodesmus gracilis</i>																										X			3,70
<i>Botriococcus braunii</i>									X											X									7,41
<i>Chlamydomonas</i> sp.		X																	X										7,41
<i>Coelastrum microporum</i>		X		X	X	X	X										X	X											25,93
<i>Coelastrum proboscideum</i>										X																			3,70
<i>Coelastrum reticulatum</i>		X	X	X	X		X																						18,52
<i>Crucigenia tetrapedia</i>			X																										3,70
<i>Crucigeniella rectangularis</i>					X					X																			7,41
<i>Desmodesmus opoliensis</i>	X	X	X	X	X	X	X		X										X										33,33
<i>Desmodesmus quadricauda</i>							X												X										7,41
<i>Desmodesmus</i> sp.		X	X	X		X	X					X							X	X					X				33,33
<i>Dictyosphaerium pulchellum</i>	X	X	X	X	X	X	X		X									X		X			X						40,74
<i>Dimorphococcus lunatus</i>			X	X		X				X	X							X	X	X									29,63
<i>Eudorina elegans</i>	X	X	X	X	X	X	X			X	X	X															X		40,74
<i>Eutetramorus fottii</i>	X			X	X	X	X		X	X	X									X			X			X			40,74
<i>Kirchneriella contorta</i> var. <i>elongata</i>		X								X																			7,41
<i>Kirchneriella diana</i>				X						X	X							X											14,81
<i>Kirchneriella lunaris</i>										X									X										7,41
<i>Micractinium bornhemense</i>							X			X																			7,41
<i>Monoraphidium irregulare</i>			X																										3,70
<i>Monoraphidium</i> sp.	X																												3,70
<i>Nephrocytium aghardianum</i>										X																			3,70
<i>Oocystis elliptica</i>	X	X	X	X		X	X			X																			25,93

Frequência de Ocorrência - Fitoplâncton

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<i>Oedogonion</i> sp.							X		X					X	X	X	X						X	X		X		29,63
<i>Pediastrum duplex</i>	X	X	X	X	X	X	X			X	X						X	X	X									44,44
<i>Pediastrum tetras</i>				X	X	X	X			X							X											14,81
<i>Scenedesmus acuminatus</i>	X	X	X	X	X	X	X			X								X										33,33
<i>Scenedesmus ecornis</i>										X																		3,70
<i>Scenedesmus denticulatus</i>										X																		3,70
<i>Scenedesmus</i> sp.					X																							3,70
<i>Selenastrum gracile</i>										X																		3,70
<i>Sphareocystis</i> sp.	X	X	X	X	X	X	X		X								X	X	X									40,74
<i>Sorastrum</i> sp.							X																					3,70
<i>Tetraedron constrictum</i>										X																		3,70
<i>Tetraedron lobulatum</i>	X									X		X																11,11
Zygnematophyceae																												
<i>Actinotaenium cucurbita</i>	X	X	X		X									X	X	X	X					X			X			37,04
<i>Actinotaenium cucurbitinum</i>																							X					3,70
<i>Bambusina brebissonii</i>				X											X		X											11,11
<i>Bambusina moniliformis</i>																	X											3,70
<i>Closterium</i> sp.1							X			X		X		X									X					18,52
<i>Closterium</i> sp.2			X		X	X	X			X				X			X		X	X					X			37,04
<i>Closterium</i> sp.3		X			X												X											11,11
<i>Closterium</i> cf. <i>kuetzingii</i>		X				X													X									11,11
<i>Cosmarium</i> cf. <i>subspeciosum</i>			X		X	X	X			X								X						X				25,93
<i>Cosmarium</i> cf. <i>circulare</i>												X				X										X		11,11
<i>Cosmarium</i> cf. <i>quadrifarium</i>						X																						3,70
<i>Cosmarium quadrum</i>								X											X									7,41
<i>Cosmarium</i> sp.															X		X											7,41
<i>Cylindrocystis</i> cf. <i>crassa</i>	X		X	X		X	X								X													22,22
<i>Gonatozygon</i> sp.			X			X						X	X	X											X	X		25,93
<i>Hyalotheca dissiliens</i>		X				X		X					X	X	X	X	X	X					X	X		X		40,74
<i>Micrasterias</i> sp.																	X											3,70
<i>Mougeotia</i> sp.					X	X						X				X	X			X			X	X				29,63
<i>Netrium</i> sp.														X	X				X									11,11
<i>Spirogyra</i> sp.						X									X													7,41
<i>Staurastrum margaritaceum</i>	X	X				X								X														14,81
<i>Staurastrum rotula</i>			X	X	X	X	X				X																	22,22
<i>Staurastrum setigerum</i>				X	X																							7,41
<i>Staurastrum</i> cf. <i>tohopekaligense</i>							X																					3,70
<i>Staurastrum trifidum</i>		X					X																					7,41
<i>Staurastrum</i> cf. <i>triangularis</i>		X										X																7,41
<i>Staurastrum</i> sp.1	X	X		X	X	X	X														X							25,93
<i>Staurastrum</i> sp.2			X				X																					7,41
<i>Staurastrum</i> sp.3			X																									3,70
<i>Stauroidesmus convergens</i>						X																						3,70
<i>Stauroidesmus</i> sp.1											X																	3,70
<i>Stauroidesmus</i> sp.2										X																		3,70
<i>Stauroidesmus mamillatus</i>															X													3,70
<i>Tetmemorus</i> sp.																									X			3,70
<i>Xanthidium</i> sp.					X									X							X							7,41
<i>Zygnema</i> sp.															X		X			X			X					14,81
Euglenophyta 17																												
Euglenophyceae																												
<i>Euglena</i> cf. <i>mutabilis</i>		X				X					X										X							14,81
<i>Euglena oxyuris</i>											X	X						X			X					X		18,52
<i>Euglena spirogyra</i>										X									X									7,41
<i>Lepocinlis ovum</i>	X	X		X						X	X	X									X				X	X	X	37,04
<i>Phacus curvicauda</i>						X				X	X		X								X					X		22,22
<i>Phacus longicauda</i>										X											X							7,41

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<i>Phacus suecicus</i>										X																		3,70	
<i>Phacus tortus</i>										X	X																	7,41	
<i>Strombomonas</i> sp.	X	X				X	X			X																		18,52	
<i>Trachelomonas armata</i>											X																	3,70	
<i>T. cf. hirta</i>																										X		3,70	
<i>T. planctonica</i>									X	X	X													X				14,81	
<i>T. cf. pulcherrima</i>												X									X			X				11,11	
<i>T. superba</i>										X	X			X							X					X	X	22,22	
<i>T. volvocina</i>		X		X	X	X	X		X	X	X	X	X	X		X	X		X		X	X	X		X		X	70,37	
<i>T. volvocinopsis</i>	X		X			X	X	X	X	X		X			X	X		X	X	X	X	X			X	X	X	66,67	
<i>Trachelomonas</i> sp.																								X				3,70	
Heterokontophyta																													
Bacillariophyceae																													
<i>Achnanthes</i> sp.	X																											3,70	
<i>Aulacoseira ambigua</i>	X	X	X	X	X	X	X	X			X	X	X			X	X	X	X		X		X		X	X	X	77,78	
<i>Aulacoseira granulata</i>	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X		X	X	X		X	X	X	85,19	
<i>Cyclotella</i> sp.	X	X	X		X	X																						18,52	
<i>Cymbella</i> sp.								X				X				X							X	X		X		22,22	
<i>Eunotia</i> sp.							X	X				X		X	X	X	X	X	X	X			X	X	X	X		48,15	
<i>Fragilaria</i> sp.	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X			X		X	X		55,56	
<i>Gomphonema</i> sp.	X		X											X	X		X					X	X					25,93	
<i>Gyrosigma</i> sp.1		X			X	X			X					X			X					X	X		X			33,33	
<i>Gyrosigma</i> sp. 2			X																				X					7,41	
<i>Navicula</i> sp.	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		92,59
<i>Pinnularia</i> sp.	X	X	X		X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X			X	70,37	
<i>Surirella</i> sp.	X	X	X	X	X	X	X			X		X	X	X	X	X	X	X	X	X			X	X		X		70,37	
<i>Synedra</i> sp.	X				X	X		X						X	X				X	X								29,63	
<i>Tabellaria</i> sp.	X		X		X	X	X											X									X	25,93	
<i>Terpsinoe</i> sp.									X																			3,70	
Chrysophyceae																													
<i>Dynobryon sertularia</i>				X		X				X				X			X	X											22,22
<i>Mallomonas</i> sp.	X	X		X	X		X	X				X	X	X	X	X	X	X	X	X		X	X	X	X			66,67	
<i>Synura uvella</i>	X	X	X	X									X	X			X	X					X				X	37,04	
Xanthophyceae																													
<i>Isthmochloron lobulatum</i>						X	X			X					X													14,81	
Dinophyta																													
Dinophyceae																													
<i>Peridiniopsis</i> sp.				X	X							X					X				X				X		X	25,93	
<i>Peridinium</i> sp.	X					X				X							X			X					X			22,22	
Cryptophyta																													
Cryptophyceae																													
<i>Cryptomonas</i> sp.		X		X		X	X	X	X	X	X										X							33,33	

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2a. Campanha																												
Cyanophyta																												
Cyanophyceae																												
<i>Aphanocapsa</i> cf. <i>incerta</i>						X				X				X				X		X	X	X	X					30,77
<i>Aphanocapsa</i> cf. <i>elachista</i>					X	X				X		X											X					19,23
<i>Aphanothece</i> cf. <i>delicatissima</i>													X										X					7,69
<i>Chroococcus minimus</i>									X						X													7,69
<i>Coelomoron</i> sp.																							X					3,85
<i>Dolichospermum solitaria</i>				X														X	X	X				X		X		23,08
<i>Geitlerinema unigranulatum</i>	X	X					X						X						X	X								23,08
<i>Limnothrix</i> sp.	X								X		X								X					X		X		23,08
<i>Merismopedia tenuissima</i>										X																		3,85
<i>Merismopedia glauca</i>							X								X				X									11,54
<i>Microcystis aeruginosa</i>														X														3,85
<i>Microcystis panniformis</i>										X												X						7,69
<i>Microcystis protocystis</i>																		X										3,85
<i>Oscillatoria</i> cf. <i>limosa</i>								X															X					3,85
<i>Oscillatoria perornata</i>																			X									3,85
<i>Phormidium</i> cf. <i>aerugineo-caeruleum</i>								X					X															7,69
<i>Phormidium</i> sp.				X		X							X						X							X		19,23
<i>Planktothrix isothrix</i>		X		X			X				X		X						X	X	X							26,92
<i>Planktothrix</i> sp.									X															X				7,69
<i>Pseudanabaena</i> cf. <i>galeata</i>													X															3,85
<i>Pseudanabaena</i> sp.																				X						X		7,69
<i>Stigonema</i> sp.															X													3,85
Chlorophyta																												
Chlorophyceae																												
<i>Actinastum hansztischii</i>	X					X												X					X					15,38
<i>Ankistrodesmus falcatus</i>										X																		3,85
<i>Botriococcus braunii</i>													X								X		X					11,54
<i>Coelastrum microporum</i>	X	X	X			X													X				X	X				26,92
<i>Coelastrum proboscideum</i>		X				X	X			X				X					X			X	X					30,77
<i>Coelastrum reticulatum</i>	X	X		X					X					X				X	X				X					30,77
<i>Crucigenia tetrapedia</i>																			X									3,85
<i>Crucigeniella rectangularis</i>										X													X					7,69
<i>Desmodesmus bicaudatus</i>		X		X	X													X										15,38
<i>Desmodesmus opoliensis</i>	X	X			X	X	X			X			X					X	X			X		X				42,31
<i>Desmodesmus quadricauda</i>		X				X			X									X	X									19,23
<i>Desmodesmus</i> sp.		X		X		X	X				X								X		X					X		30,77
<i>Dictyosphaerium pulchellum</i>	X	X			X	X	X		X	X			X					X	X			X	X	X		X		53,85
<i>Dimorphococcus lunatus</i>		X			X	X	X																	X				19,23
<i>Eudorina elegans</i>												X								X			X	X			X	19,23
<i>Eutetramorus fottii</i>		X				X			X	X		X		X				X	X			X	X	X			X	46,15
<i>Golenkinia radiata</i>						X				X													X					11,54
<i>Kirchneriella contorta</i> var. <i>elongata</i>						X				X								X										11,54
<i>Kirchneriella diana</i>										X				X				X				X						15,38
<i>Kirchneriella lunaris</i>										X										X								7,69
<i>Kirchneriella obesa</i>																		X										3,85
<i>Micractinium bornhemiense</i>					X	X																	X					11,54
<i>Micractinium pussillum</i>					X	X				X			X							X								19,23
<i>Oocystis elliptica</i>						X						X	X					X					X	X			X	26,92
<i>Oocystis</i> cf. <i>parva</i>		X			X				X																			11,54
<i>Oedogonion</i> sp.	X	X		X	X	X		X					X					X	X	X			X	X				46,15
<i>Pediastrum duplex</i>	X	X		X	X	X	X	X	X	X			X	X	X			X	X			X	X			X	X	76,92
<i>Pediastrum tetras</i>	X	X				X				X																		15,38
<i>Scenedesmus acuminatus</i>	X	X			X	X	X											X	X				X			X		34,62
<i>Sphareocystis</i> sp.							X															X	X				X	15,38

Frequência de Ocorrência - Fitoplâncton

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<i>Treubaria triappendiculata</i>						X																						3,85
<i>Ulothrix</i> sp.																	X						X					7,69
Zygnematophyceae																												
<i>Actinotaenium cucurbita</i>	X	X		X	X	X	X	X			X	X	X		X	X			X	X		X	X	X		X		69,23
<i>Actinotaenium cucurbitinum</i>							X	X										X	X				X					19,23
<i>Actinotaenium elongatum</i>				X																								3,85
<i>Bambusina brebissonii</i>													X		X													7,69
<i>Closterium</i> sp.1	X	X		X	X	X		X											X	X				X				34,62
<i>Closterium</i> sp.2				X	X								X		X		X						X					15,38
<i>Closterium</i> sp.3													X										X					7,69
<i>Closterium</i> cf. <i>kuetzingii</i>																	X	X	X									11,54
<i>Cosmarium</i> cf. <i>circularae</i>										X			X	X	X		X	X								X		26,92
<i>Cosmarium</i> cf. <i>formosulum</i>	X	X	X	X	X	X	X	X			X						X	X	X	X		X	X	X				61,54
<i>Cosmarium</i> cf. <i>portianum</i>																	X										X	7,69
<i>Cosmarium</i> cf. <i>quasillus</i>					X																							3,85
<i>Cosmarium</i> cf. <i>conspersum</i>				X																								3,85
<i>Cosmarium</i> <i>pyramidatum</i>					X			X							X				X									15,38
<i>Cosmarium</i> <i>quadrum</i>	X			X		X			X										X									19,23
<i>Cosmarium</i> sp.1		X	X			X				X									X									19,23
<i>Cosmarium</i> sp.2		X		X			X			X									X		X							23,08
<i>Desmidium</i> <i>cylindricum</i>															X													3,85
<i>Euastrum</i> <i>didelta</i>					X								X		X				X						X			19,23
<i>Euastrum</i> <i>pulchellum</i>						X																						3,85
<i>Euastrum</i> <i>spinulosum</i>								X																				7,69
<i>Euastrum</i> cf. <i>gemmatum</i>		X																										3,85
<i>Gonatozygon</i> sp.	X	X		X	X	X	X						X		X			X		X		X					X	50,00
<i>Hyalotheca</i> <i>dissiliens</i>	X	X						X					X			X	X		X	X	X							38,46
<i>Micrasterias</i> <i>rotata</i>		X																										3,85
<i>Mougeotia</i> sp.	X			X		X		X			X		X		X		X	X				X	X	X				46,15
<i>Netrium</i> sp.	X	X		X		X		X					X		X			X	X	X						X		46,15
<i>Sphaeroszoma</i> <i>aubertianum</i>										X																		3,85
<i>Spirogyra</i> sp.													X		X						X	X						15,38
<i>Spirotaenia</i> sp.															X													3,85
<i>Staurastrum</i> <i>leptocladum</i>							X		X										X									11,54
<i>Staurastrum</i> <i>margaritaceum</i>	X	X		X	X	X	X					X	X							X		X	X				X	46,15
<i>Staurastrum</i> <i>punctulatum</i>	X			X	X			X		X								X						X				26,92
<i>Staurastrum</i> <i>setigerum</i>	X	X			X	X							X					X		X	X						X	34,62
<i>Staurastrum</i> <i>sellatus</i>															X													3,85
<i>Staurastrum</i> <i>trifidum</i>	X	X		X	X	X		X		X	X				X		X	X	X	X			X				X	57,69
<i>Staurastrum</i> <i>gladiosum</i>				X																								3,85
<i>Staurastrum</i> sp.1			X				X		X	X			X		X	X	X			X			X			X		42,31
<i>Staurastrum</i> sp.2		X			X													X	X							X		19,23
<i>Staurodesmus</i> <i>convergens</i>																				X						X		7,69
<i>Staurodesmus</i> sp.1						X				X	X										X							15,38
<i>Staurodesmus</i> sp.2																		X										3,85
<i>Staurodesmus</i> <i>glaber</i>						X																	X					7,69
<i>Staurodesmus</i> cf. <i>triangularis</i> f. <i>sêroemii</i>						X																						3,85
<i>Staurodesmus</i> <i>mamillatus</i>			X															X										7,69
<i>Staurodesmus</i> cf. <i>sellatus</i>									X																			3,85
<i>Staurodesmus</i> cf. <i>subulatus</i>																							X					3,85
<i>Xanthidium</i> <i>antilopaeum</i>															X													3,85
<i>Zygnema</i> sp.	X	X		X				X							X			X	X	X								30,77
Cladophorophyceae																												
<i>Cladophora</i> sp.								X																				3,85
Euglenophyta																												
Euglenophyceae																												
<i>Euglena</i> cf. <i>mutabilis</i>										X											X					X	X	15,38

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência
<i>Euglena oxyuris</i>								X	X		X		X						X		X					X		26,92
<i>Lepocinclis ovum</i>					X	X		X				X		X					X	X						X	X	38,46
<i>Phacus curvicauda</i>					X								X								X					X		19,23
<i>Phacus longicauda</i>								X													X					X		11,54
<i>Phacus tortus</i>													X								X							7,69
<i>Strombomonas</i> sp.										X	X										X							11,54
<i>Trachelomonas armata</i>																					X							3,85
<i>T. planctonica</i>					X					X	X		X								X			X				23,08
<i>T. cf. pulcherrima</i>					X																					X		7,69
<i>T. superba</i>					X			X		X							X		X	X	X					X		30,77
<i>T. volvocina</i>		X	X		X		X	X		X	X	X	X			X	X		X	X	X	X				X		61,54
<i>T. volvocinopsis</i>			X		X	X	X	X	X	X	X	X				X	X			X	X					X	X	57,69
<i>Trachelomonas</i> sp.																										X		3,85
Heterokontophyta																												
Bacillariophyceae																												
<i>Aulacoseira ambigua</i>	X	X	X	X	X	X	X	X					X			X	X	X			X	X	X	X		X	X	73,08
<i>Aulacoseira granulata</i>	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X			X	X	84,62
<i>Cyclotella</i> sp.		X								X												X						11,54
<i>Cymbella</i> sp.								X			X		X			X						X						19,23
<i>Diploneis</i> sp.						X		X																				7,69
<i>Eunotia</i> sp.	X	X	X	X			X	X			X		X		X		X	X	X	X								50
<i>Fragilaria</i> sp.	X	X	X	X	X			X			X		X		X	X	X	X	X				X	X			X	61,54
<i>Gomphonema</i> sp.					X		X						X		X	X												19,23
<i>Gyrosigma</i> sp.1																					X							3,85
<i>Gyrosigma</i> sp. 2																												3,85
<i>Melosira</i> sp.													X												X			11,54
<i>Navicula</i> sp.		X	X	X	X	X	X	X			X	X	X	X	X	X		X	X	X			X	X		X	X	76,92
<i>Pinnularia</i> sp.	X	X	X	X	X	X	X	X			X		X		X	X	X		X	X		X	X	X		X	X	80,77
<i>Rizosolenia</i> sp.										X																		3,85
<i>Surirella</i> sp.	X	X		X	X	X	X	X			X		X		X	X	X	X	X	X		X		X			X	69,23
<i>Synedra</i> sp.	X	X			X	X	X	X					X		X	X	X			X			X	X				50
<i>Tabellaria</i> sp.										X				X		X	X	X										19,23
Chrysophyceae																												
<i>Dynobryon bavaricum</i>												X															X	7,69
<i>Dynobryon sertularia</i>				X														X	X									11,54
<i>Mallomonas</i> sp.		X		X	X	X		X			X	X			X	X		X	X	X	X			X				53,85
<i>Synura uvella</i>								X										X	X		X			X		X		23,08
Xanthophyceae																												
<i>Isthmochloron lobulatum</i>		X							X	X								X	X									19,23
Dinophyta																												
Dinophyceae																												
<i>Peridiniopsis</i> sp.						X						X			X		X										X	19,23
<i>Peridinium</i> sp.					X		X	X			X	X	X								X	X		X			X	38,46
Cryptophyta																												
Cryptophyceae																												
<i>Cryptomonas</i> sp.			X			X		X																				11,54

Observação: não teve coleta no Ponto 37

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência	
3a. Campanha																													
Cyanophyta																													
Cyanophyceae																													
<i>Aphanocapsa</i> cf. <i>elachista</i>														X	X					X				X					14,81
<i>Aphanocapsa</i> cf. <i>delicatissima</i>											X						X		X	X		X		X	X	X			29,63
<i>Eucapsis</i> sp.						X		X											X		X		X						7,41
<i>Epigloeosphaera</i> <i>brasilica</i>										X	X					X										X			11,11
<i>Chroococcus</i> <i>minimus</i>						X						X	X						X						X				18,52
<i>Geitlerinema</i> <i>unigranulatum</i>	X																				X								7,41
<i>Limnothrix</i> sp.					X			X	X	X			X	X	X	X	X			X	X		X	X	X	X			51,85
<i>Lyngbya</i> sp.		X				X																X							14,81
<i>Mastigocladus</i> <i>laminosus</i>															X														3,70
<i>Microcystis</i> <i>protocystis</i>		X		X	X	X											X	X											22,22
<i>Oscillatoria</i> cf. <i>limosa</i>				X	X	X																							7,41
<i>Phormidium</i> sp.				X						X			X						X										14,81
<i>Planktothrix</i> <i>isothrix</i>		X	X			X	X											X		X						X			25,93
<i>Planktothrix</i> sp.																					X								3,70
<i>Pseudanabaena</i> cf. <i>galeata</i>																		X								X			7,41
<i>Pseudanabaena</i> sp.			X	X	X	X	X		X				X	X	X	X			X	X			X	X			X		55,56
<i>Raphidiopsis</i> sp.															X														3,70
<i>Scytonema</i> sp.																				X									3,70
Chlorophyta																													
Chlorophyceae																													
<i>Ankistrodesmus</i> <i>gracilis</i>																					X				X				7,41
<i>Botriococcus</i> <i>braunii</i>								X	X	X								X				X				X			22,22
<i>Coelastrum</i> <i>reticulatum</i>										X																			3,70
<i>Crucigenia</i> <i>tetrapedia</i>												X											X		X				11,11
<i>Crucigeniella</i> <i>rectangularis</i>																											X		3,70
<i>Desmodesmus</i> <i>opoliensis</i>	X									X																	X		11,11
<i>Desmodesmus</i> sp.	X						X		X			X						X							X	X			25,93
<i>Dictyosphaerium</i> <i>pulchellum</i>	X				X		X					X						X				X			X		X		29,63
<i>Dimorphococcus</i> <i>lunatus</i>				X						X								X				X							14,81
<i>Eudorina</i> <i>elegans</i>	X	X	X	X	X	X	X			X						X	X	X	X		X	X			X	X	X		66,67
<i>Eutetramorus</i> <i>fottii</i>									X			X									X	X					X		18,52
<i>Golenkinia</i> <i>radiata</i>					X																								3,70
<i>Kirchneriella</i> <i>dianae</i>																		X									X		7,41
<i>Kirchneriella</i> <i>obesa</i>										X												X							7,41
<i>Monoraphidium</i> <i>griffithii</i>									X																X				7,41
<i>Nephrocytium</i> <i>aghardianum</i>					X																								3,70
<i>Oocystis</i> <i>elliptica</i>							X		X			X									X								14,81
<i>Oedogonion</i> sp.	X														X		X						X				X		18,52
<i>Pediastrum</i> <i>duplex</i>	X	X								X								X	X										18,52
<i>Pediastrum</i> <i>tetras</i>																						X							3,70
<i>Scenedesmus</i> <i>acuminatus</i>								X		X			X									X					X		14,81
Zygnematophyceae																													
<i>Actinotaenium</i> <i>cucurbita</i>	X									X	X		X					X		X		X			X	X			33,33
<i>Actinotaenium</i> <i>cucurbitinum</i>																		X											3,70
<i>Bambusina</i> <i>brebissonii</i>																											X		3,70
<i>Bambusina</i> <i>moniliformis</i>	X																								X				7,41
<i>Closterium</i> sp.1	X							X												X					X	X			18,52
<i>Closterium</i> cf. <i>kuetzingii</i>				X																X									7,41
<i>Cosmarium</i> cf. <i>circularae</i>																							X						3,70
<i>Cosmarium</i> cf. <i>contractum</i>										X								X					X						11,11
<i>Cosmarium</i> cf. <i>denticulatum</i>																				X									3,70
<i>Cosmarium</i> cf. <i>subtumidum</i>	X																												3,70
<i>Cosmarium</i> <i>subspeciosum</i> var. <i>validius</i>		X									X			X	X					X									18,52
<i>Cosmarium</i> <i>ornatum</i>										X																			3,70

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência	
<i>Cosmarium</i> sp.1																		X										3,70	
<i>Desmidium cylindricum</i>					X	X								X			X				X							18,52	
<i>Desmidium swartzii</i>					X										X											X		11,11	
<i>Euastrum ansatum</i>																			X									3,70	
<i>Euastrum</i> cf. <i>evolutum</i>										X																		3,70	
<i>Gonatozygon</i> sp.																	X	X	X									11,11	
<i>Hyalotheca dissiliens</i>			X	X		X							X							X			X	X				25,93	
<i>Mougeotia</i> sp.						X		X					X				X	X				X				X	X	29,63	
<i>Netrium</i> sp.																										X		3,70	
<i>Spondylosium panduriforme</i>										X																		3,70	
<i>Staurastrum leptocladum</i>		X		X		X			X		X										X					X	X	X	
<i>Staurastrum margaritaceum</i>						X								X							X							11,11	
<i>Staurastrum setigerum</i>		X																										3,70	
<i>Staurastrum trifidum</i>																	X			X								7,41	
<i>Staurastrum rotula</i>				X																		X						7,41	
<i>Staurastrum</i> cf. <i>urinator</i> var. <i>brasiliense</i>		X			X	X	X		X		X				X	X		X			X	X				X	X	48,15	
<i>Staurastrum</i> sp.1			X		X													X									X	14,81	
<i>Stauroidesmus</i> sp.1									X							X	X				X							14,81	
<i>Stauroidesmus</i> cf. <i>triangularis</i> f. <i>séroemii</i>																						X	X					7,41	
<i>Stauroidesmus mamillatus</i>	X																											3,70	
<i>Stauroidesmus</i> cf. <i>subulatus</i>											X																	3,70	
<i>Teilingia granulata</i>											X																	3,70	
<i>Xanthidium antilopaeum</i>											X		X															7,41	
<i>Zygnema</i> sp.											X							X										7,41	
Euglenophyta																													
Euglenophyceae																													
<i>Euglena</i> cf. <i>mutabilis</i>	X								X									X			X	X		X	X		X	25,93	
<i>Euglena oxyuris</i>				X	X	X			X		X										X	X						25,93	
<i>Lepocinclis ovum</i>	X										X	X													X	X	X	22,22	
<i>Phacus curvicauda</i>			X					X										X	X			X						18,52	
<i>Phacus longicauda</i>				X					X		X					X						X				X		22,22	
<i>Phacus tortus</i>											X											X						11,11	
<i>Phacus</i> cf. <i>suecicus</i>									X																			3,70	
<i>Trachelomonas armata</i>									X						X			X				X			X		X	22,22	
<i>T. planctonica</i>			X		X	X										X						X						18,52	
<i>T. superba</i>	X			X	X		X		X	X								X				X						29,63	
<i>T. volvocina</i>	X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X		X	X	X	X	X	X	77,78
<i>T. volvocinopsis</i>	X	X		X			X		X			X	X			X		X			X		X	X	X	X	X	55,56	
<i>Trachelomonas</i> sp.															X													3,70	
Heterokontophyta																													
Bacillariophyceae																													
<i>Aulacoseira ambigua</i>	X	X	X			X			X			X		X				X	X				X			X	X	44,44	
<i>Aulacoseira granulata</i>	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X					X	X	77,78	
<i>Cyclotella</i> sp.			X																									3,70	
<i>Cymbella</i> sp.	X				X								X	X				X	X					X	X			25,93	
<i>Diploneis</i> sp.	X																											7,41	
<i>Eunotia</i> sp.	X	X	X			X	X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	81,48
<i>Fragilaria</i> sp.	X	X	X	X	X	X	X	X			X	X	X		X	X	X			X			X	X		X	X	70,37	
<i>Gomphonema</i> sp.								X																	X	X		11,11	
<i>Melosira</i> sp.																				X						X		7,41	
<i>Navicula</i> sp.	X	X	X	X	X	X	X	X		X	X		X		X		X		X	X	X	X	X	X	X	X	X	X	81,48
<i>Pinnularia</i> sp.	X	X	X	X	X	X	X	X			X		X	X	X		X	X	X			X	X	X	X	X	X	74,07	
<i>Rizosolenia</i> sp.																											X	3,70	
<i>Surirella</i> sp.	X	X	X	X	X	X	X	X						X				X	X				X	X			X	59,26	
<i>Synedra</i> sp.	X	X		X							X							X	X	X			X					29,63	
Chrysophyceae																													
<i>Dynobryon bavaricum</i>										X		X																7,41	

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência
<i>Mallomonas</i> sp.	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X		X	
<i>Synura uvella</i>				X				X		X							X	X				X						22,22
Xanthophyceae																												
<i>Isthmochloron lobulatum</i>									X									X										7,41
Dinophyta																												
Dinophyceae																												
<i>Peridiniopsis</i> sp.					X																	X				X	X	14,81
<i>Peridinium</i> sp.						X								X				X			X		X				X	22,22
Cryptophyta																												
Cryptophyceae																												
<i>Cryptomonas</i> sp.	X	X	X	X						X	X	X	X		X	X		X			X		X	X	X		X	59,26

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência
4a. Campanha																												
Cyanophyta																												
Cyanophyceae																												
<i>Aphanocapsa delicatissima</i> W. West & G. S. West		X												X	X	X	X		X									23,077
<i>Aphanocapsa elachista</i> W. West & G. S. West			X					X		X				X	X	X			X		X			X				30,769
<i>Aphanothece</i> sp.										X			X	X				X	X	X	X							26,923
Ciano ramificada												X				X												7,692
<i>Chroococcus minimus</i> (Keissler) Lemmerman													X									X						7,692
<i>Coelomoron</i> sp.									X																			3,846
<i>Cylindropspermopsis</i> sp.					X																							3,846
<i>Geitlerinema unigranulatum</i> (Singh) Komárek & Azevedo								X	X		X						X				X					X		23,077
<i>Geitlerinema splendidum</i> (Gomont) Anagnostidis																										X		3,846
<i>Limnothrix</i> sp.	X			X	X	X			X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	76,923
<i>Lyngbya</i> sp.				X											X						X							11,538
<i>Mastigocladus</i> sp.			X												X			X						X				15,385
<i>Merismopedia tenuissima</i> Lemmerman																						X						3,846
<i>Microcystis aeruginosa</i> (Kutzing) Lemmerman				X																								3,846
<i>Microcystis</i> sp.			X																			X						7,692
<i>Oscillatoria</i> cf. <i>perornata</i> Skuja	X														X													7,692
<i>Phormidium</i> cf. <i>aerugineum-caeruleum</i> (Gomont) Anagnostidis & Komárek			X							X	X																	11,538
<i>Phormidium</i> sp.				X	X					X		X				X								X				23,077
<i>Planktothrix isothrix</i> (Skuja) Komárek & komárková		X	X	X	X	X	X												X	X	X		X	X		X	X	46,154
<i>Planktothrix</i> sp.	X	X				X	X	X														X	X				X	30,769
<i>Pseudanabaena catenata</i> Lauterborn																		X										3,846
<i>Pseudanabaena</i> sp.1		X		X	X	X	X	X				X					X	X	X				X				X	46,154
<i>Pseudanabaena</i> sp.2				X		X			X		X		X													X		23,077
<i>Raphidiopsis</i> sp.								X																				3,846
Chlorophyta																												
Chlorophyceae																												
<i>Actinastrum</i> sp.										X	X																	7,692
<i>Ankistrodesmus falcatus</i> (Corda) Ralfs																						X				X		7,692
<i>Botriococcus braunii</i> Kutzing			X					X			X	X	X			X		X	X		X				X	X		42,308
<i>Chlamydomonas</i> sp.	X																											3,846
<i>Coelastrum microporum</i> Naegeli			X		X				X		X									X		X	X			X		30,769
<i>Coelastrum proboscideum</i> Bohlin												X	X															7,692
<i>Crucigeniella rectangularis</i> (Naegeli) Komárek		X																										3,846
<i>Dictyosphaerium pulchellum</i> Wood		X			X				X			X		X				X	X	X		X				X		38,462
<i>Dimorphococcus lunatus</i> A. Braun	X			X	X			X														X						19,231
<i>Desmodesmus opoliensis</i> Richter							X												X	X						X		15,385
<i>Desmodesmus quadricauda</i> fma <i>granulatus</i> Hortobagyi				X																								3,846
<i>Desmodesmus</i> sp.1				X			X	X																		X		15,385
<i>Eudorina elegans</i> Ehrenberg		X	X	X	X	X		X	X	X	X			X						X	X	X	X			X	X	61,538
<i>Eutetramorus fotti</i> (Hindák) Komárek sensu Komárek					X				X																			7,692
<i>Kirchneriella lunaris</i> (Kirchner) Schimidle											X								X	X		X						15,385
<i>Oedogonion</i> sp.					X	X								X	X	X												19,231
<i>Ocystis</i> cf. <i>elliptica</i> W. West			X						X																			7,692
<i>Nephrocytium agardhianum</i> Naegeli																					X							3,846
<i>Pediastrum duplex</i> var. <i>gracilimum</i> West & G. S. West		X	X		X																	X				X		19,231
<i>Scenedesmus</i> sp.			X																		X							7,692
<i>Selenastrum gracile</i> Reinsch					X																							3,846
Zygnematophyceae																												
<i>Actinotaenium cucurbita</i> (Brébisson) Teiling	X	X	X		X	X								X		X		X	X	X		X				X		46,154
<i>Bambusina brebissonii</i> Kuetzing	X													X			X					X						15,385
<i>Bambusina moniliformis</i> (Ehrenberg) Thomasson	X																											3,846
<i>Closterium kuetzingii</i> Brébisson			X			X	X	X				X	X							X	X					X	X	42,308
<i>Closterium</i> sp.1				X			X	X	X		X										X		X	X		X		34,615
<i>Closterium</i> sp.2				X					X					X			X	X	X	X			X					30,769

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência
<i>Closterium</i> sp.3	X	X	X	X	X	X	X	X		X	X		X	X						X		X				X	X	61,538
<i>Cosmarium contractum</i> Kirchner										X	X	X		X					X	X	X	X						30,769
<i>Cosmarium ornatum</i> Ralfs		X								X						X		X		X								19,231
<i>Cosmarium subspeciosum</i> var. <i>validus</i> Nordsted			X						X	X										X		X						19,231
<i>Cosmarium</i> cf. <i>binum</i> Nordstedt						X											X											7,692
<i>Cosmarium</i> cf. <i>botrytis</i> Meneghini																										X		3,846
<i>Cosmarium</i> cf. <i>formosulum</i> Hoffman												X											X				X	11,538
<i>Cosmarium</i> cf. <i>lundellii</i> Delponte												X																3,846
<i>Cosmarium</i> cf. <i>subundulatum</i> Wille																							X					3,846
<i>Cosmarium</i> sp.1																				X		X						7,692
<i>Cosmarium</i> sp.2	X	X			X	X																						15,385
<i>Desmidium cylindricum</i> Greville		X		X				X		X	X	X		X			X		X	X						X		42,308
<i>Desmidium swartzii</i> C. A. Agardh		X		X				X														X						15,385
<i>Euastrum didelta</i> Ralfs																		X										3,846
<i>Euastrum pulchellum</i> Brébisson var. <i>protusum</i> Gronblad							X						X															7,692
<i>Gonatozygon</i> sp.					X							X										X						11,538
<i>Hyalotheca dissiliens</i> (Smith) Brébisson	X	X	X	X	X	X	X		X	X	X	X				X	X		X	X	X		X	X				69,231
<i>Micrasterias rotata</i> (Greville) Ralfs																				X								3,846
<i>Mougeotia</i> sp.	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				76,923
<i>Netrium</i> sp.							X																					3,846
<i>Sphaerososma aubertianum</i> West																										X		3,846
<i>Spondylosium planum</i> (Wole) W. & G. S. West																										X		3,846
<i>Spirogyra</i> sp.																	X											3,846
<i>Staurastrum dilatatum</i> Ehrenberg		X				X		X	X		X	X		X						X		X	X			X		42,308
<i>Staurastrum gladiusum</i> Turner	X	X	X																			X						15,385
<i>Staurastrum glaber</i> var. <i>limnophilus</i> Teiling					X																							3,846
<i>Staurastrum leptocladum</i> Nordstedt			X		X											X		X										15,385
<i>Staurastrum maragritaceum</i> Meneghini ex Ralfs	X	X		X		X				X	X		X		X			X		X		X	X			X		73,077
<i>Staurastrum quadrispinatum</i> Turner										X																		3,846
<i>Staurastrum setigerum</i> Cleve					X															X								7,692
<i>Staurastrum trifidum</i> Nordstedt var. <i>inflexum</i> W. & G. S. West				X		X												X								X		19,231
<i>Staurastrum rotula</i> Nordstedt																										X		3,846
<i>Staurastrum</i> cf. <i>corpulentum</i> Thomasson						X																X				X		11,538
<i>Staurastrum</i> sp.1	X		X	X	X	X	X	X		X	X	X				X	X			X	X		X			X	X	61,538
<i>Staurastrum</i> sp.2									X	X		X														X	X	15,385
<i>Stauropesmus triangularis</i> (Lagerh.) Teiling				X					X					X								X				X		19,231
<i>Stauropesmus mamillatus</i> (Nordstedt) Teiling								X																				3,846
<i>Stauropesmus subulatus</i> var. <i>subaequalis</i> (West) Thomasson																										X		3,846
<i>Xanthidium fragile</i> Borge																				X								3,846
<i>Xanthidium</i> sp.1			X					X										X		X								15,385
<i>Xanthidium</i> sp.2																				X								3,846
<i>Zygnema</i> sp.	X									X				X	X	X	X	X	X		X	X				X		42,308
Euglenophyta																												
Euglenophyceae																												
<i>Euglena mutabilis</i> Schmitz												X			X					X		X				X	X	23,077
<i>Euglena oxyuris</i> Schmarda						X			X		X															X		15,385
<i>Lepocinclis ovum</i> (Ehrenberg) Lemmermann	X	X	X		X				X										X	X		X	X			X	X	42,308
<i>Phacus curvicauda</i> Swirenko			X		X																X	X				X	X	23,077
<i>Phacus longicauda</i> (Ehrenberg) Dujardim			X	X		X	X	X	X		X	X								X		X				X	X	46,154
<i>Phacus tortus</i> (Lemmerman) Skvortzov				X			X										X									X		19,231
<i>Trachelomonas superba</i> Swirenko emend deflandre		X	X	X		X			X		X		X							X	X	X	X			X		46,154
<i>Trachelomonas volvocina</i> Ehrenberg	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X		X	X	84,615
<i>T. volvocinopsis</i> Swirenko	X	X		X	X	X	X	X	X		X	X		X	X	X	X		X	X	X	X	X	X		X	X	84,615
<i>T. playfairi</i> Delfandre																						X						3,846
<i>Trachelomonas</i> sp.								X	X			X															X	15,385
Heterokontophyta																												
Bacillariophyceae																												

Frequência de Ocorrência - Fitoplâncton

Táxons	P1	P2	P3	P4	P5	P6	P7	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P37	P39	P40	Frequência de ocorrência
<i>Aulacoseira ambigua</i> var. <i>ambigua</i> (Grunow) Simonsen	X	X	X	X	X	X	X	X	X		X	X	X			X				X		X	X			X	X	69,231
<i>Aulacoseira granulata</i> var. <i>granulata</i> (Ehrenberg) Simonsen	X	X	X		X	X		X	X		X	X	X	X	X			X		X		X	X				X	65,385
<i>Aulacoseira</i> sp.						X															X						X	3,846
<i>Cyclotella</i> sp.																X					X						X	11,538
<i>Cymbella</i> sp.							X					X			X							X	X					19,231
<i>Eunotia</i> sp.		X	X	X	X	X	X	X	X	X		X		X	X	X	X				X	X		X		X	X	76,923
<i>Fragilaria</i> sp.	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X		X	X			X	X		X		76,923
<i>Frustulia</i> sp.												X			X	X												11,538
<i>Gyrosigma</i> sp.		X						X								X			X							X		19,231
<i>Melosira</i> sp.		X			X			X			X																	15,385
<i>Navicula</i> sp.	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X		X	X	X		X	X	88,462
<i>Pinnularia</i> sp.	X	X	X	X		X	X	X			X		X	X	X	X			X	X			X	X			X	65,385
<i>Surirella</i> sp.		X	X	X	X	X	X	X										X		X		X						42,308
<i>Synedra</i> sp.			X								X		X												X	X		19,231
<i>Tabelaria</i> sp.			X	X	X	X						X								X						X		26,923
Chrysophyceae																												
<i>Dynobryon sertularia</i> Ehrenberg									X									X				X						11,538
<i>Mallomonas</i> sp.	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	88,462
<i>Synura uvella</i> Ehrenberg		X	X	X	X	X	X			X		X					X	X	X		X	X	X			X		57,692
Dinophyta																												
Dinophyceae																												
<i>Peridinium</i> sp.		X	X		X		X		X	X		X	X	X	X				X	X		X				X		53,846
Cryptophyta																												
Cryptophyceae																												
<i>Cryptomonas</i> sp.				X					X		X	X	X	X		X	X					X		X		X		42,308

Observação: não teve coleta no Ponto 37