Anexo 5.2.1.1 - Lista de espécies fitoplanctônicas no mês de novembro de 2012

Anexo 5.2.1-1: Lista das espécies registradas considerando-se as amostras qualitativas e quantitativas do rio Madeira, seus tributários e lagos e canais durante o mês de novembro de 2012.

Táxons\amostras	MON.05	MON.04	MON.03	MON.02	MON.01	JUS.01	JUS.02	JUS.03	CAR-S	CAR-F	JAC.01-S	JAC.01-F	JAC.02-S	JAC.02-F	JAC.03-S	CRC-S	CRC-F	TEO-S	TEO-M	TEO-F	TEO.01-S	TEO.01-M	TEO.01-F	JAT. I-S	JAT.I- M	JAT.I- F	JAT I.01-S	JAT I.01-F	JAT II-S	BEL-S	JAM-S	CEA-S	CEA-F	CEA.01-S	CUJ	MIG	CC.01	CC.02	LC.01-S	LC.01-F	LC.02-S	LC.03
Cianobactérias																																										
Anabaena planctonica																								X																		
Aphanocapsa delicatissima							X																								X				X	X						
Aphanocapsa elachista																															X				X							
Aphanocapsa incerta														X	X								X								X				X							
Aphanocapsa holsatica								X					X		X																				X							
Anathece minutissima					X																	X					X				X					X						
Aphanothece sp.																																				X						
cf. Komvophoron cf. schimdlei															X																											
Chroococcales 1												X															X															
Chroococcus dispersus																															X				X							
Chroococcus distans																																			X			X				
Chroococcus limneticus																																										
Chroococcus minutus/minor					X				X		X	X			X			X										X			X			X	X	X	X	X	X	X		X
Chroococcus sp. 2																																			X							
Chroococcus sp. 4									X							X																										
Chroococcus sp. 5																																		X								X
Coelosphaerium cf. aerugineum																															X											
Coelosphaerium cf. kuetzingianum																																							X			
Coelosphaerum punctiferum																															X											
Cyanodictyon imperfectum																															X				X							
Cyanogranis ferruginea												X									X										X				X			X				
Cylindrospermopsis raciborskii	X																																		X							
Heteroleibleinia sp.																																					X					
Jaaginema sp. 1															X																											
Lyngbya sp.																														X												
Merismopedia convoluta																																				X						
Merismopedia punctata																																				X						
Merismopedia tenuissima					X						X				X			X			X						X					X		X	X	X			X			
Merismopedia warmingiana																															X											
Microcystis aeruginosa						X																								X	X				X	X						
Microcystis protocystis																															X											
Microcystis cf. viridis																																			X	X						
Microcystis wesenbergii																															X				X	X		X	X			
Oscillatoria cf. subbrevis						X															X																					
Oscillatoria sp.1															X									X								X										
Oscillatoria sp.2																								X																		
Phormidiaceae 1														X	X																											
Phormidiaceae 4																																									X	
Phormidium sp.1	X	X	X	X			X																												X							X
Phormidium sp.2																X															X										X	
Phormidium simplissimum							X																	X													X					
Planktolynbya bipunctata											X																									X						
Planktolyngbya brevicelularis																																			X			X				
Planktolyngbya circumcreta																																			X	X						
Planktolyngbya limnetica			X			X	X		X						X																X				X	X						
Planktothrix agardhii																		X																								
Planktothrix isothrix															X																X											
Pseudanabaena limnetica		X		X		X		X							X																X				X							
Pseudanabaena mucicola																																			X	X						
Pseudanabaena westiana																																			X							
Pseudanabaena woronichinii																																			X							
Pseudanabaenaceae 2																								X																		
Pseudanabaenaceae 3																								X																		
Radiocystis fernandoi																																			X	X						
Romeria elegans										X		X																														
Romeria gracilis									X	X			X			X		X		X			X									X										
Sphaerocavum brasiliense														X																												
Spirulina cf. robusta																																							X			
Synechococcus elongatus																X							X				X															
Synechococcus nidulans					X				X	X	X	X		X				X			X	X	X				X						X	X	X	X	X				X	
Synechocystis aquatilis (1)			X		X											X								X										X				X	X			
Synechocystis aquatilis (2)																																			X	X						
Crisoficeas																																										
Bitrichia amazonica																																							X			X
Dinobryon sertularia																															X								X			
Chromulina gyrans															X																							X	X	X		
Chromulina sp. 1															X																				X				X			
Chromulina sp. 3																																									X	
Chromulina sp. 5																																									X	
Chrysococcus punctiformis					X																														X				X			
Chrysococcus sp.1																																							X			
Chrysophyceae 1					X																																					
Chrysophyceae 5																																			X							
Dinobryon bavaricum															X																											
Dinobryon sertularia											X																											X		X		X
Dinobryon sp.1																																										
Dinobryon sp.2																																							X			
Mallomonas cf. *limnicola*											X																												X			
Mallomonas sp. 5															X																								X			
Mallomonas sp. 12											X																											X				
Mallomonas sp. 13																															X								X			
Mallomonas tonsurata																																							X			
Mallomonopsis sp.			X		X				X											X																					X	
Ochromonas cf. minuscula																																			X							
Synura uvella																															X											

Anexo 5.2.1-1: Lista das espécies registradas considerando-se as amostras qualitativas e quantitativas do rio Madeira, seus tributários e lagos e canais durante o mês de novembro de 2012.

Táxons\amostras	MON.05	MON.04	MON.03	MON.02	MON.01	JUS.01	JUS.02	JUS.03	CAR-S	CAR-F	JAC.01-S	JAC.01-F	JAC.02-S	JAC.02-F	JAC.03-S	CRC-S	CRC-F	TEO-S	TEO-M	TEO-F	TEO.01-S	TEO.01-M	TEO.01-F	JAT. I-S	JAT.I- M	JAT.I- F	JAT I.01-S	JAT I.01-F	JAT II-S	BEL-S	JAM-S	CEA-S	CEA-F	CEA.01-S	CUJ	MIG	CC.01	CC.02	LC.01-S	LC.01-F	LC.02-S	LC.03
Xantofíceas																																										
Istmochlorum lobulatum																																						*X*				
Tetraplektron tribulus															X																								X			
Diatomáceas																																										
Achnantidium minutissimum					X																																				X	
Aulacoseira ambigua																															X				X							
Aulacoseira distans		X	X		X				X		X		X			X		X						X								X										
Aulacoseira granulata var. *angustissima*	**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
Aulacoseira granulata var. *granulata*	X	X	X	X	X	X	X	X					X		X	X		X						X							X	X			X	X	X	X	X	X		X
Aulacoseira herzogii															X																											
Aulacoseira italica				X											X			X																	X			X	X			
Aulacoseira sp. 1																																			X							X
Aulacoseira sp. 2																																										X
Aulacoseira sp. 3																																				X						
Cêntrica 1																					X																					
Cêntrica 2															X			X		X	X	X	X	X		X	X	X														
Cêntrica 3																					X	X	X			X	X															
Cêntrica 4					X																																					
Cêntrica 5						X																																				
Cyclotella meneghiniana																																				X						
Cyclotella sp. 1		X			X																X										X											
Cyclotella sp. 2					X																																					
Diploneis sp.																											X															
Discotella sp.					X																																					
Discotella steligera																															X											
Encyonema cf. *silesiacum*													X																													
Encyonema minutum																								X																		
Eunotia sp.5																													X													
Fragilaria sp.1																															X				X							
Fragilaria sp.2																																			X							
Fragilaria sp.3																		X																								
Frustulia sp.															X																											
Gomphonema parvulum																															X		X									
Gyrosigma sp.		X		X	X		X	X													X											X										X
Melosira varians			X	X			X	X										X	X			X		X								X	X						X	X		
Melosira sp. 1																																							X			
Navicula cryptocephala							X																																			
Navicula sp.															X	X																					X					
Navicula rostelatta						X																																		X		
Nitzschia amphibia		X																																								
Nitzschia gracilis													X	X	X		X	X		X							X											X	X		X	X
Nitzschia gracilliformis		X																																								
Nitszchia palea	X	X		X	X		X								X				X																X							
Nitzschia sp. 2					X																																					
Nitzschia paleacea															X																							X				
Penada 6																																					X					
Penada 7					X																																					
Pleurosira laevis				X																																						
Pinnularia mesolepta							X																						X												X	
Pinnularia microstauron																													X													
Pinnularia sp.1																																										X
Sellaphora sp. 1																																							X			
Stenopterobia cf. *delicastissima*																			X																							
Surirella sp. 1																X																										
Surirella sp. 4																																										X
Surirella sp. 5													X		X														X								X					
Surirella sp. 6																																							X			
Tabellaria sp. 1											X		X			X															X							X				X
Tabellaria sp. 2		X				X					X	X	X	X	X																						X	X	X	X		X
Tabellaria sp. 3																																					X	X	X			
Thalassiosira sp.	X																																									
Ulnaria ulna			X	X		X			X						X	X								X											X							X
Urosolenia eriensis var. *morsa*					X						X	X		X	X	X	X														X					X		X	X			X
Urosolenia longiseta																	X						X													X	X	X	X			
Urosolenia pusilla															X																											
Rafidoficeas																																										
Gonyostomum latum											X					X								X										X				X				
Merotrichia sp.																																									X	
Criptofíceas																																										
Chroomonas acuta																															X											
Cryptomonas brasliliensis																																			X				X			
Cryptomonas sp.2										X																								X								
Cryptomonas sp. 3										X																								X								
Cryptomonas sp. 4															X																							X				
Cryptomonas cf. *marssonii* (1)			X		X					X	X		X	X	X		X				X	X	X	X												X		X	X	X	X
Cryptomonas cf. *marssonii* (2)			X									X				X											X															
Cryptomonas obovata																																X										
Cryptomonas pyrenoidifera																																		X								
Cryptomonas tetrapyrenoidifera																X	X				X	X	X	X										X								
Rhodomonas sp. 1																																									X	

Anexo 5.2.1-1: Lista das espécies registradas considerando-se as amostras qualitativas e quantitativas do rio Madeira, seus tributários e lagos e canais durante o mês de novembro de 2012.

Táxons\amostras	MON.05	MON.04	MON.03	MON.02	MON.01	JUS.01	JUS.02	JUS.03	CAR-S	CAR-F	JAC.01-S	JAC.01-F	JAC.02-S	JAC.02-F	JAC.03-S	CRC-S	CRC-F	TEO-S	TEO-M	TEO-F	TEO.01-S	TEO.01-M	TEO.01-F	JAT. I-S	JAT.I- M	JAT.I- F	JAT I.01-S	JAT I.01-F	JAT II-S	BEL-S	JAM-S	CEA-S	CEA-F	CEA.01-S	CUJ	MIG	CC.01	CC.02	LC.01-S	LC.01-F	LC.02-S	LC.03
Dinoflagelados																																										
Dinoflagelado 1																																							X			
Dinoflagelado 2 (cisto)																																					X					
Dinoflagelado 3 (cisto)														X																												
Dinoflagelado 4																																							X			
Durinskia sp.2																					X																					
Durinskia baltica																											X															
Peridinium sp.1																																						X	X			
Peridinium umbonatum																																							X			
Euglenóides																																										
Euglena sp. 1				X	X										X				X		X																X	X	X		X	
Euglena sp. 4											X												X												X			X	X	X	X	
Lepocinclis acus																																									X	
Lepocinclis limnophyla																																									X	
Lepocinclis ovum									X							X			X															X				X			X	
Lepocinclis salina																																						X	X			
Lepocinclis sp.2																																						X				
Lepocinclis sp.3																																						X				
Phacus agilis																																									X	
Phacus curvicauda																																									X	
Phacus longicauda																																									X	
Phacus sp. 2															X																											
Phacus sp. 5															X																								X			
Strombomonas sp.2																																										X
Trachelomonas cervicula									X		X																															
Trachelomonas planctonica			X																													X										
Trachelomonas sp. 2									X								X																									
Trachelomonas sp. 11										X																								X								
Trachelomonas sp. 13																																		X								
Trachelomonas sp. 15									X								X																									
Trachelomonas volvocina																																			X							
Trachelomonas volvocinopsis											X											X								X				X								
Clorofíceas																																										
Actinastrum fluviatile																X																										
Actinastrum hantzschii			X	X	X	X	X		X						X																											X
Actinastrum hantzschii var subtile																																X										
Actinastrum rhaphidioides		X																																								
Ankistrodesmus bernardii																					X																					
Ankistrodesmus bibraianus											X																															
Ankistrodesmus falcatus																					X																					
Ankistrodesmus fusiformis																																			X							
Ankistrodesmus gracilis															X																				X							
Ankyra sp.																					X													X								
Binuclearia cf. tectorum																					X																					
Botryococcus terribilis																															X				X							
cf. *Selenoderma africana*																																							X			
Chlorococcales n.i. (Autósporo)	X																																									
Chlamydomonas cf. microscopica															X																											
Chlamydomonas sp. 1															X					X																						
Chlamydomonas sp. 2																																			X							
Chlamydomonas sp. 3																																			X							
Chlorella homosphaera			X		X			X			X	X	X		X		X				X	X									X	X	X		X	X	X	X	X			
Chlorella minutissima					X		X		X	X	X	X	X	X	X						X	X									X	X		X	X	X	X	X	X	X	X	X
Chlorella sp. 1																																						X				
Chlorella vulgaris	X		X		X					X	X		X	X	X	X		X																	X	X	X	X	X	X		
Chlorolobium braunii				X	X	X															X						X	X											X			X
Chlorophyceae 1																								X																		
Chlorophyceae 3																															X						X					
Chlorophyceae 4																															X						X					
Chlorophyceae 5																																							X			
Chlorophyceae 7											X				X						X						X															
Chloromonas sp. 1									X																																X	
Chloromonas sp. 2																					X										X							X		X	X	
Choricystis cf. cylindracea/chodatii									X				X		X																			X	X			X	X			
Choricystis minor					X				X		X			X	X																				X	X			X			
Coelastrum astroideum																															X											
Coelastrum indicum																															X				X							
Coelastrum microporum															X				X		X	X					X	X														
Coelastrum proboscideum											X																															
Coelastrum pulchrum						X	X																							X					X	X		X	X			X
Coelastrum reticulatum																															X				X							
Coenochloris asymmetrica							X																														X					
Coenochloris hindakii															X																X							X				
Coenochloris mucosa																																							X			
Coenochloris planoconvexa																																							X			
Coenochloris sp.																																				X			X			
Coccomyxia lacustris																															X											X
Crucigenia apiculata															X																											
Crucigenia quadrata																				X	X																					
Crucigenia tetrapedia				X				X			X			X	X						X	X	X		X		X	X							X							
Crucigeniella crucifera								X			X	X			X							X		X										X				X				
Crucigeniella saguei																					X																					
Desmodesmus brasiliensis															X																											
Desmodesmus costatogranulatus																																							X			
Desmodesmus denticulatus															X																											
Desmodesmus opoliensis					X										X																											
Desmodesmus protuberans		X		X	X																																					X
Desmodesmus quadricauda var. *longispina*														X	X									X							X											
Desmodesmus quadricauda var. *quadricau*	X								X		X				X										X																	X
Desmodesmus cf. quadrispina															X																				X			X				
Desmodesmus smithii														X																												
Desmodesmos sp. 1															X																											
Dictyosphaerium chlorelloides												X		X	X																			X								X
Dictyosphaerium puchellum					X				X		X		X		X																X							X	X			

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Táxons\amostras	MON.05	MON.04	MON.03	MON.02	MON.01	JUS.01	JUS.02	JUS.03	CAR-S	CAR-F	JAC.01-S	JAC.01-F	JAC.02-S	JAC.02-F	JAC.03-S	CRC-S	CRC-F	TEO-S	TEO-M	TEO-F	TEO.01-S	TEO.01-M	TEO.01-F	JAT. I-S	JAT.I- M	JAT.I- F	JAT I.01-S	JAT I.01-F	JAT II-S	BEL-S	JAM-S	CEA-S	CEA-F	CEA.01-S	CUJ	MIG	CC.01	CC.02	LC.01-S	LC.01-F	LC.02-S	LC.03
Dictyosphaerium tetrachotomum																															X											
Dimorphococcus lunatus																																						X				X
Diplochoris dichotomococcoides																																			X							
Diplochoris lunnata																																			X	X		X	X			
Elakatothrix fusiformis																																				X						
Elakatothrix gelifacta																																						X				
Elakatothrix genevensis													X																													
Elakatothrix viridis																																						X				
Eudorina sp. 1															X																				X							
Eudorina unicocca						X					X					X																										
Eutetramorus fottii															X																X					X	X	X	X			
Euteramorus cf. nygardii																																			X							
Eutetramorus planktonicus																					X		X																X			X
Eutetramorus tetrasporus																																					X					
Franceia javanica															X																											
Geminella interrupta																					X																					
Gloeotilopsis planctonica																		X																								
Golenknia radiata																					X																					
Golenkinia solitaria																																										X
Hydrodictyon reticulatum																																X										
Kirchneriella aperta															X																							X				
Kirchneriella contorta																																					X					X
Kirchneriella dianae																																						X				
Kirchneriella irregularis															X																							X				
Kirchneriella irregularis var. spiralis																																							X			
Kirchneriella lunaris															X																							X	X			
Kirchneriella microscopica					X						X	X		X																												X
Kirchneriella obesa																																				X			X			
Koliella longiseta f. *tenuis*									X		X	X	X		X		X	X			X	X															X	X		X		X
Lobocystis sp.															X																								X			
Micractinium pusillum														X	X																											X
Monoraphidium arcuatum											X	X	X		X			X																								
Monoraphidium caribeum																					X																					
Monoraphidium circinale											X		X	X							X						X							X	X	X	X					X
Monoraphidium contortum	X	X	X		X			X	X				X	X	X													X							X			X				X
Monoraphidium convolutum					X										X																											
Monoraphidium dybovskii												X									X	X					X															
Monoraphidium fontinale																																							X			
Monoraphidium griffithii																																			X							
Monoraphidium irregulare																					X																					
Monoraphidium minutum					X						X				X	X																										
Monoraphidium nanum											X	X					X																									
Monoraphidium obtusum																																X										
Monoraphidium subclavatum																X																			X							
Monoraphidium tortile											X	X					X	X						X											X							
Mougeotia cf. floridana																		X						X																		
Mougeortia sp.																													X													
Mougeotia gelifacta															X																								X			
Mougeotia viridis																																										X
Nephrochlamis willeana																																						X				
Nephrocytium agardhianum														X																												
Nephrocytium limneticum													X																													X
Nephrocytium perseverans																															X											
Nephrocytium schilleri															X																											
Oocystis borgei																																						X				
Oocystis lacustris	X																				X						X								X	X						
Oocystis marsonii																																			X							
Oocystis sp. 2					X																																					
Pandorina morum																		X			X																					
Pediastrum argentiniense																					X																					
Pediastrum duplex var. duplex		X		X	X										X																X											X
Pediastrum duplex var. gracillimum			X												X	X		X																								X
Pediastrum duplex var. rugulosum			X				X																																			
Phodoedra sp.		X			X																																			X		
Pseudodidymocystis fina																																							X			
Quadrigula closterioides																															X											
Radiococcus planctonicus			X																																			X				
Raphidocelis roselata															X																					X		X				
Scenedesmus acutus	X																																									
Scenedesmus ellipticus			X	X							X	X		X	X						X			X			X						X	X	X		X		X	X		X
Scenedesmus obtusus															X																											
Scenedesmus cf. semipulcher															X																											
Schroederia setigera											X																											X			X	
Sorastrum americanum var. undulatum				X																																						
Spermatozoopsis exultans											X					X																							X		X	X
Stilochoccus bacilaris															X																											
Torakochloris tetras																																				X			X			X
Tetraedrom caudatum													X		X						X						X															
Tetraedrom minimum																																			X							
Tetraedron trigonum var. setigerum																																										X
Tetrallantos lagerheimii											X		X								X	X																				
Tetrastrum heteracanthum															X																											
Tetrastrum triangulare															X																											X
Treubaria planctonica													X	X																												
Treubaria setigera																X																										X
Treubaria triappendiculata																																						X	X			
Ulothrix sp. 1																															X											
Ulothrix sp. 2	X			X											X																											X
Volvox aureus											X																														X	
Volvox sp.											X													X																		X
Westella botryoides												X			X																											
Zignematoficeas																																										
Actinotaenium cf. *curtum* var. *curtum*																																								X		
Actinotaenium globosum var. globosum f. minimus																															X						X	X	X			

Anexo 5.2.1-1: Lista das espécies registradas considerando-se as amostras qualitativas e quantitativas do rio Madeira, seus tributários e lagos e canais durante o mês de novembro de 2012.

Táxons\amostras	MON.05	MON.04	MON.03	MON.02	MON.01	JUS.01	JUS.02	JUS.03	CAR-S	CAR-F	JAC.01-S	JAC.01-F	JAC.02-S	JAC.02-F	JAC.03-S	CRC-S	CRC-F	TEO-S	TEO-M	TEO-F	TEO.01-S	TEO.01-M	TEO.01-F	JAT. I-S	JAT.I- M	JAT.I- F	JAT I.01-S	JAT I.01-F	JAT II-S	BEL-S	JAM-S	CEA-S	CEA-F	CEA.01-S	CUJ	MIG	CC.01	CC.02	LC.01-S	LC.01-F	LC.02-S	LC.03
Actinotaenium perminutum																																	X									
Actinotaenium sp. 1															X																						X	X	X	X		X
Actinotaenium sp. 2																																						X	X			
Closterium acutum f. *variabilis*																											X								X							
Closterium gracile																X															X				X							
Closterium gracile var. gracile																					X														X							
Closterium nitzschioides															X																											
Closterium sp. 1																		X																								
Closterium sp. 3							X																																			
Closterium sp. 5												X																														
Closterium sp. 6											X							X																								
Closterium sp. 7														X																												
Cosmarium bioculatum															X												X				X						X	X		X		X
Cosmarium contractum var. minutum																																							X			
Cosmarium denticulatum var.rotundatum f. mediolaeve																								X													X	X	X			
Cosmarium margaritiferum var. brasiliensis															X																											
Cosmarium pseudoconatum																								X													X		X			
Cosmarium sphagnicolum																																			X		X	X	X			
Cosmarium tinctum				X											X						X						X								X					X		
Cosmarium sp.4																																										X
Cosmarium sp.9															X																											
cf. *Sirocladium* sp.				X																																						
Desmidium aequale																																							X			
Desmidium coarctatum																																									X	
Desmidium grevillii var. grevillii																																							X			
Euastrum cf. binale																																							X			
Gonatozyon monataenium var. pilosellum															X									X														X				
Hyalotheca dissiliens																																							X			
Micrasterias radiosa																															X											
Micrasterias radiata var. brasiliensis																																							X			
Onychonema filiformis																																						X				
Pleurotaenium trabecula var. rectum																																							X			
Spirogyra sp.								X																																		
Spondylosium pulchellum											X																															X
Spondylosium sp.																																					X					
Staurastrum leptacanthum var. borgei																															X						X		X			
Staurastrum leptocladum																															X							X				
Staurastrum leptocladum var. cornutum																																			X		X		X			
Staurastrum paradoxum																																							X			
Staurastrum planctonicum																																			X							
Staurastrum quadrangulare																																							X			
Staurastrum rotula																																						X				
Staurastrum subophiura																																					X		X			
Staurastrum sp. 4																																										X
Staurastrum sp. 9															X																											
Staurastrum sp. 10																															X											
Staurastrum polymorphum															X																								X			
Staurastrum tetracerum var. *tortum*																																			X							
Staurastrum triangularis																																					X	X				
Staurastrum triangularis var. limneticus																																							X			
Staurastrum trifidum																															X											
Staurastrum trifidum var. inflexum																															X								X			
Staurastrum cf. stelíferum				X																																		X				
Staurastrum xiphophorum																															X							X	X			
Staurodesmus clepsydra var. obtusus																																					X	X	X			
Staurodesmus cf. erostellum																																				X						
Staurodesmus mamillatus																																						X				
Teilingia granulata																																						X				
Xanthidium sexangulare																																							X			
Xanthidium sp.3																																						X				