

**Effects of the hydrological cycle on the phycoperiphyton assemblage in an Andean foothill stream in Colombia**

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**Supplementary Tab. 1.** Totals density of the phycoperiphyton taxa caught in the Guarinó River during the dry and rainy seasons between 2007 and 2010.

Taxa	Density			Freq (%)	Year 1				Year 2				Year 3			
	Ind m <sup>-2</sup>	% (acum)	Dry 1		Rainy 1	Dry 2	Rainy 2	Dry 1	Rainy 1	Dry 2	Rainy 2	Dry 1	Rainy 1	Dry 2	Rainy 2	
<i>Lyngbia</i>	7799.99	15.96	97.22	242.06	290.84	493.10	106.72	361.26	109.79	1554.88	254.71	1230.81	528.32	297.27	2330.26	
<i>Navicula</i>	6323.36	28.89	100.00	263.63	1399.95	507.43	170.95	83.82	59.41	722.63	38.72	186.16	906.44	1600.87	383.33	
<i>Fragilaria</i>	6091.42	41.35	100.00	410.85	1379.58	435.96	139.94	159.18	46.03	523.26	78.74	426.87	739.41	1534.40	217.20	
<i>Melosira</i>	5214.68	52.02	58.33	907.83	268.84	179.41	4.63	41.14	1.38	2.58		49.51	3442.87	316.49		
<i>Chroococcus</i>	4606.87	61.45	77.78	835.22	2183.89	586.61	548.70	61.08	144.80	31.18	1.54	22.92		180.47	10.45	
<i>Oscillatoria</i>	2375.18	66.31	97.22	41.72	919.38	57.71	323.94	32.47	220.83	69.77	26.18	73.33	72.22	155.15	382.47	
<i>Nitzschia</i>	2322.97	71.06	77.78	34.06	194.00	35.38		80.70		195.81	7.78	142.29	754.46	742.27	136.21	
<i>Chlorococcum</i>	1866.55	74.88	66.67					37.02	6.91	49.45	57.40	115.72	32.91	797.46	769.68	
<i>Gomphonema</i>	1392.64	77.72	91.67	118.92	91.38	90.52	23.78	17.63	1.48	25.91	9.71	117.67	15.84	825.17	54.63	
<i>Cymbella</i>	1376.86	80.54	72.22	33.94	68.74	40.11	12.88	7.33		5.16		186.56	343.37	594.75	84.02	
<i>Achnanthes sp.</i>	1277.92	83.16	63.89		36.66	6.68	16.99	13.65		67.87	1.22	58.96	25.53	719.46	330.91	
<i>Synedra aff ulna</i>	1222.75	85.66	25.00									22.84	882.98	306.90	10.01	
<i>Trachelomonas cf. volvocina</i>	1204.10	88.12	91.67	95.53	475.94	133.53	105.67	11.65	93.05	34.94	18.70	15.27	10.19	69.07	140.54	
<i>Cyclotella</i>	607.27	89.36	86.11	83.14	162.93	34.89	3.30	11.79	4.45	26.43	18.49	12.76	62.84	158.22	28.02	
<i>Cocconeis</i>	553.18	90.49	61.11	27.73	21.12	8.71	1.95		3.32	3.15	1.22	3.32	2.23	476.69	3.75	
<i>Characium</i>	491.29	91.50	75.00	65.78	83.13	82.32	5.59	17.88	1.98	29.17	1.22	4.89	91.60	102.39	5.34	
<i>Trachelomonas</i>	370.17	92.26	58.33	4.96	269.71	22.15	38.52	1.58	6.27	4.98	3.32		2.86	12.50	3.33	
<i>Chaetophora</i>	332.44	92.94	69.44	32.04	46.66	5.95	9.55	11.34		46.53	6.01	4.68	84.66	63.13	21.88	
<i>Synedra</i>	303.73	93.56	50.00	7.16	14.66	1.99		7.15		1.79	1.71		143.39	118.84	7.04	
<i>Surirella</i>	288.84	94.15	50.00	9.55	35.49	22.95	1.48			5.20		18.21	132.71	63.25		
<i>Achnanthes cf inflata</i>	236.37	94.63	38.89							19.82	2.15	16.41	15.08	177.31	5.60	
<i>Oedogonium</i>	223.76	95.09	44.44		22.27	6.13		3.53	3.01	2.65	5.84	0.78	2.08	169.35	8.12	
<i>Coelosphaerium</i>	198.61	95.50	66.67	54.22	21.12		29.46	3.17	6.78	7.81	2.76	5.53	6.94	42.33	18.49	
<i>Planktolingbya</i>	160.12	95.82	5.56										158.26			
<i>Anomooneis</i>	148.33	96.13	38.89	58.58						2.17		13.61	6.46	37.40	30.11	
<i>Frustulia</i>	146.42	96.43	25.00									123.25	11.17	2.84	9.16	
<i>Anabaena</i>	135.26	96.70	33.33	10.23	66.11	4.99	7.29	5.77	18.56	1.24	4.62		8.59	2.84	5.02	
<i>Spirogyra</i>	133.76	96.98	16.67										87.84	45.92		
<i>Diatoma</i>	129.45	97.24	11.11									7.06	3.98	118.41		
<i>Lyngbia aff major</i>	127.27	97.50	19.44							1.29	67.47				58.51	
<i>Microcystis</i>	94.92	97.70	36.11	13.62	31.00	1.66				2.65		5.06		5.09	35.83	
<i>cf Synechococcus</i>	88.66	97.88	16.67	52.85				33.45						2.36		
<i>Mallomonas</i>	82.78	98.05	5.56	1.95									80.83			
<i>Pinnularia</i>	82.07	98.22	41.67	4.12		11.69		3.42	1.98	5.16	1.78	4.62	4.94	38.37	6.00	
<i>Gyrosigma</i>	77.78	98.37	30.56		1.81	10.93		1.58	1.98	42.48	10.93		2.86	5.20		
<i>Nitzschia aff clausii</i>	71.07	98.52	8.33											17.11	53.96	
<i>Amphora</i>	60.11	98.64	27.78									2.47	14.98	31.38	11.28	
<i>Crucigenia</i>	57.31	98.76	13.89									0.84		50.49	5.99	

Taxa	Density		Freq (%)	Year 1				Year 2				Year 3			
	Ind m <sup>-2</sup>	% (acum)		Dry 1	Rainy 1	Dry 2	Rainy 2	Dry 1	Rainy 1	Dry 2	Rainy 2	Dry 1	Rainy 1	Dry 2	Rainy 2
<i>Mougeotia</i>	49.74	98.86	13.89	27.13											
<i>Cladophora</i>	49.11	98.96	16.67		6.09							19.26	4.46	6.92	12.38
<i>Myxosarcina</i>	40.47	99.05	11.11									0.84			39.64
<i>Cylindrocystis</i>	36.84	99.12	25.00	4.50			2.81		1.38					22.69	5.45
<i>Cosmarium</i>	33.61	99.19	19.44	2.06	6.09		1.77					1.47		22.23	
<i>Borzia trilocularis</i>	33.55	99.26	27.78	4.50	11.13	1.69	2.00					1.67		7.93	
<i>Pseudoanabaena</i>	25.30	99.31	16.67									3.08		1.63	17.81
<i>Spirulina</i>	20.99	99.35	16.67		5.71		10.04		3.70			1.54			
<i>Eunotia</i>	20.46	99.39	11.11									18.33	2.13		
<i>Ulothrix</i>	18.71	99.43	5.56									5.34	13.37		
<i>Oocystis</i>	18.68	99.47	5.56		17.14							1.54			
<i>Aulacoseira cf granulata</i>	16.45	99.50	8.33		16.45										
<i>Coelastrum</i>	16.05	99.54	8.33											2.79	13.26
<i>Hannaea</i>	15.87	99.57	16.67					3.85	3.32			0.54		2.31	5.86
<i>Monoraphidium</i>	13.67	99.60	8.33					3.53				1.78		8.36	
<i>Trachelomonas cf superba</i>	13.37	99.63	8.33	10.18				1.65				1.54			
<i>Kirchneriella</i>	13.34	99.65	5.56											13.34	
<i>Hantzschia</i>	11.38	99.68	5.56										2.86	8.52	
<i>Sphaerocystis</i>	11.15	99.70	2.78											11.15	
<i>Cylindrocapsa</i>	10.64	99.72	2.78										10.64		
<i>Stauroneis</i>	10.49	99.74	11.11									1.09	9.40		
<i>Closterium</i>	9.54	99.76	8.33		6.09		1.82	1.63							
<i>Schroederia</i>	8.90	99.78	5.56									0.54		8.36	
<i>Ankistrodesmus</i>	8.44	99.80	5.56	2.06									6.38		
<i>Cylindrospermopsis cf raciborskii</i>	8.01	99.81	2.78				8.01								
<i>aff Stigonema</i>	7.16	99.83	5.56											5.57	1.58
<i>Tabellaria cf flocculosa</i>	6.61	99.84	11.11							1.79		2.69			2.13
<i>Colacium</i>	6.47	99.85	5.56											4.62	1.86
<i>Euglena</i>	6.38	99.87	2.78										6.38		
<i>Peridinium</i>	5.75	99.88	8.33	2.56		1.81			1.38						
<i>Cryptomonas</i>	5.65	99.89	5.56	1.93											3.71
<i>Ochromonas</i>	5.09	99.90	2.78											5.09	
<i>Elakatothrix</i>	4.55	99.91	2.78											4.55	
<i>Stephanodiscus</i>	4.55	99.92	2.78											4.55	
<i>Desmidium</i>	4.46	99.93	2.78										4.46		
<i>Phythelios</i>	4.25	99.94	2.78										4.25		
<i>Staurastrum</i>	3.48	99.94	2.78												3.48
<i>Rhopalodia</i>	3.38	99.95	5.56									0.54		2.84	
<i>Ceratium cf hirundinella</i>	2.83	99.96	2.78	2.83											

Taxa	Density		Freq (%)	Year 1				Year 2				Year 3			
	Ind m <sup>-2</sup>	% (acum)		Dry 1	Rainy 1	Dry 2	Rainy 2	Dry 1	Rainy 1	Dry 2	Rainy 2	Dry 1	Rainy 1	Dry 2	Rainy 2
<i>Synedra aff goulardii</i>	2.79	99.96	2.78											2.79	
<i>Planctonema</i>	2.36	99.97	2.78											2.36	
<i>Dinobryon</i>	2.32	99.97	2.78						2.32						
<i>Raphidiopsis</i>	2.31	99.98	2.78											2.31	
<i>Capsosira cf. brebissonii</i>	1.98	99.98	2.78						1.98						
<i>Scenedesmus cf ecornis</i>	1.95	99.99	2.78	1.95											
<i>Chlorella</i>	1.86	99.99	2.78												1.86
<i>Phacus</i>	1.86	99.99	2.78												1.86
<i>Closterium cf aciculare</i>	1.69	100.00	2.78			1.69									
<i>aff Eucapsis</i>	1.58	100.00	2.78												1.58
Total density	48,882.31			3469.40	8152.13	2776.86	1588.72	1018.24	746.07	3487.73	638.15	2926.36	8765.81	10,033.23	5279.60
Taxa number	87			34	29	26	25	27	24	29	30	40	43	56	44