

# Supplementary Materials: First Report on Microcystin-LR Occurrence in Water Reservoirs of Eastern Cuba, and Environmental Trigger Factors

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**Table S1** Database of the 24 studied reservoirs at the eastern Cuba.

Reservoir	Volume	Depth	Catchment area	Inhabitants per km <sup>2</sup>	Localization		Uses				
	(x 10 <sup>6</sup> m <sup>3</sup> )	(m)	(km <sup>2</sup> )	(Inhabitants)	Longitude	Latitude	Forest (%)	Agric (%)	Ind (%)	Urbanized (%)	Deforest (%)
Céspedes	243,00	52,0	441,91	16345	20.275245	-76.234201	50	35	0	5	10
Gilbert	59,67	43,0	144,10	3002	20.129631	-76.076248	70	20	0	0	10
Gota Blanca	83,60	45,4	319,99	4753	20.164505	-76.031349	70	20	0	0	10
Hatillo	5,84	22,3	108,00	820	20.185080	-70.967581	55	40	0	0	5
Charco Mono	4,50	28,0	72,21	702	20.121330	-75.966522	80	10	0	0	10
Chalóns	3,20	9,0	12,55	4306	20.071577	-75.813723	40	30	0	0	30
Parada	34,20	33,5	55,37	18277	20.034779	-75.896751	50	10	20	10	10
Mícará	4,41	30,6	17,21	501	20.456192	-75.518675	60	20	0	0	20
Joturo	2,38	19,0	20,53	2238	20.183933	-75.574199	30	50	0	0	20
Baraguá	250,00	43,0	1749,61	166498	20.398293	-75.977562	20	60	0	10	10
Camazán	6,70	17,0	54,56	2259	20.768137	-76.112311	20	50	0	10	20
Bio	67,50	25,2	251,95	7256	20.496219	-76.101932	5	90	0	0	5
Cauto el Paso	330,00	30,0	8969,20	1112010	20.584679	-76.718730	40	40	5	5	10
Guisa	66,50	56,0	95,07	21914	20.244891	-76.568438	55	25	0	5	15
Bueycito	159,00	42,0	130,58	12004	20.211159	-76.764833	50	20	0	5	25
Paso Malo	95,60	47,0	229,56	230	20.128539	-76.959294	80	0	0	5	15
Cautillo	84,40	42,0	176,66	10519	20.305233	-76.509774	60	30	0	5	5
La Yaya	160,00	47,2	565,30	35727	20.124841	-75.360015	20	70	0	0	10
Jaibo	120,00	48,5	215,86	2473	20.201719	-75.278045	60	30	0	0	10
Clotilde	6,10	27,0	55,48	396	20.198874	-75.153287	60	20	0	0	20
Los Plátanos	3,80	11,0	22,58	135	20.232075	-75.231228	40	40	0	0	20
Moa	141,00	75,5	86,81	2000	20.557866	-74.981418	40	10	30	10	10
Nipe	112,20	35,0	397,50	10937	20.666997	-75.846526	20	55	0	5	20
Gibara	65,50	46,3	85,97	368	20.901041	-76.113282	30	60	0	0	10

**Table S2** List of cyanobacteria species and potentially toxigenic species in the studied reservoirs in eastern Cuba.

Cyanophyceae specie	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<i>Aphanizomenon flos-aquae</i> (T)										x	x	x						x		x		x	x	x
<i>Aphanizomenon gracile</i> (T)	x									x	x										x	x		
<i>Aphanocapsa</i> sp. (T)	x	x	x		x	x		x	x				x			x		x	x		x	x	x	x
<i>Aphanotece minutissima</i>	x							x					x	x			x				x	x		x
<i>Aphanotece</i> sp.	x	x		x		x			x								x		x	x				
<i>Aphanotece clathrata</i>	x							x			x	x					x					x		x
<i>Chroococcus minutus</i>									x															
<i>Chroococcus</i> sp.				x					x					x	x		x					x		x
<i>Coelosphaerium</i> sp.								x																
<i>Coelosphaerium kuetzingianum</i>					x																			

Legend:1-Céspedes; 2-Gilbert; 3-Gota Blanca; 4-Hatillo; 5-Charco Mono; 6-Chalóns; 7-Parada; 8-Mícara; 9-Joturo; 10- Baraguá; 11-Camazán; 12-Bio; 13-Cauto el Paso; 14-Guisa; 15-Bueycito; 16-Paso Malo; 17-Cautillo;18-La Yaya; 19-Jaibo; 20-Clotilde; 21-Los Plátanos; 22-Moa; 23-Nipe; 24-Gibara; \*= Bloom forming species determined in the reservoirs according to the present research;. (T) = toxic species according previous reports.