

Supplementary Tables and Figures

Table S1. Mean $\pm$ standard deviation of physicochemical variables between the Impacted, Restored and Control treatment during the “Before”, “During” and “After” biological control of *Salvinia molesta*. Where EC – conductivity; TDS – total dissolved solids; Water temp. – water temperature; DO – dissolved oxygen; NO₃ – nitrate; NH₄ – ammonium; P – phosphate.

Physicochemical variables	Impacted			Restored			Control		
	Before	During	After	Before	During	After	Before	During	After
pH	7.7 $\pm$ 0.04	7.1 $\pm$ 0.4	7.04 $\pm$ 0.14	8.1 $\pm$ 0.3	7.5 $\pm$ 0.4	7.8 $\pm$ 0.4	7.8 $\pm$ 0.04	8.2 $\pm$ 0.5	8.7 $\pm$ 0.6
EC (μ S)	843.5 $\pm$ 38.7	867.6 $\pm$ 311.6	1071.9 $\pm$ 422	850.5 $\pm$ 25.3	772.5 $\pm$ 291.3	821.5 $\pm$ 260.6	901 $\pm$ 68.6	871.8 $\pm$ 269.1	1039.1 $\pm$ 439.8
TDS (ppm)	598.3 $\pm$ 27.4	602.8 $\pm$ 223.6	762.1 $\pm$ 297.7	603 $\pm$ 17.6	547.9 $\pm$ 206.8	582.3 $\pm$ 185.7	642 $\pm$ 53.3	641.2 $\pm$ 159.2	726.5 $\pm$ 294.8
Salinity (ppm)	429 $\pm$ 19.8	456.3 $\pm$ 140.9	540.4 $\pm$ 211.7	433.8 $\pm$ 13.2	390.3 $\pm$ 150.9	413 $\pm$ 132.8	462.3 $\pm$ 39.5	457 $\pm$ 116.9	512.6 $\pm$ 206.7
Water temp. (°C)	22.5 $\pm$ 0.5	16.8 $\pm$ 3.10	19.8 $\pm$ 3.4	24.6 $\pm$ 0.3	17.8 $\pm$ 2.4	21.8 $\pm$ 2.5	23.4 $\pm$ 0.46	17.1 $\pm$ 2.9	20.9 $\pm$ 2.9
DO (mg/l)	5.4 $\pm$ 0.3	3.51 $\pm$ 0.53	6.9 $\pm$ 1.4	5.1 $\pm$ 0.4	3.5 $\pm$ 1.3	3.3 $\pm$ 0.5	4.9 $\pm$ 0.5	5.2 $\pm$ 1.4	3.9 $\pm$ 0.3
NO ₃ (mg/l)	16.6 $\pm$ 5.3	5.7 $\pm$ 3.2	3.3 $\pm$ 1.9	2.6 $\pm$ 0.6	4.9 $\pm$ 2.9	3.3 $\pm$ 2.6	6.9 $\pm$ 2.9	20.8 $\pm$ 19.4	11.2 $\pm$ 8.2
NH ₄ (mg/l)	0.03 $\pm$ 0.05	0.01 $\pm$ 0.03	0.03 $\pm$ 0.05	0.03 $\pm$ 0.05	0.01 $\pm$ 0.03	0.01 $\pm$ 0.04	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0
P (mg/l)	1 $\pm$ 0.4	0.84 $\pm$ 0.81	0.81 $\pm$ 1.32	0.8 $\pm$ 0.5	3.04 $\pm$ 5.9	1.09 $\pm$ 1.02	0.93 $\pm$ 0.40	0.6 $\pm$ 0.67	0.4 $\pm$ 0.5
Water clarity (cm)	71.8 $\pm$ 10.7	32.6 $\pm$ 23	19.6 $\pm$ 16.4	43.8 $\pm$ 16.7	43.1 $\pm$ 31.8	67.6 $\pm$ 22.8	61.3 $\pm$ 1.85	66.8 $\pm$ 18	92.9 $\pm$ 3.5
Periphyton biomass (mg/m ³)	15.3 $\pm$ 13.9	17.8 $\pm$ 23.8	9.4 $\pm$ 7.5	17.6 $\pm$ 14.9	21.6 $\pm$ 27.7	60.5 $\pm$ 29.3	23.4 $\pm$ 19.2	23.6 $\pm$ 20.8	63 $\pm$ 54.9
Phytoplankton biomass (mg/m ³)	0.09 $\pm$ 0.06	4.3 $\pm$ 4.8	19.7 $\pm$ 16.8	0.13 $\pm$ 0.08	4.1 $\pm$ 4.5	0.63 $\pm$ 0.7	0.10 $\pm$ 0.07	0.40 $\pm$ 0.52	0.3 $\pm$ 0.2

Table S2. Mean $\pm$ standard deviation of dominant (>1000 cells per liter) epilithic algae species recorded between the Impacted, Restored and Control treatment during the “Before”, “During” and “After” biological control of *Salvinia molesta*.

Species	Impacted			Restored			Control		
	Before	During	After	Before	During	After	Before	During	After
<i>Anabaena</i> sp.	1268.8	82.3 $\pm$ 88.2		162.5 $\pm$ 211.9	48.7 $\pm$ 51.9	1114.3 $\pm$ 1260.1	12.2 $\pm$ 0.69	334.7 $\pm$ 706	
<i>Psuedanabaena</i> sp.		163.4 $\pm$ 375.6	40.8 $\pm$ 26.7		227.9 $\pm$ 621.9	11.9		307.4 $\pm$ 654.3	
<i>Amphora veneta</i>		164.4 $\pm$ 237.4	102.4 $\pm$ 89		9.9 $\pm$ 5.3	51.7 $\pm$ 43.9		77.1 $\pm$ 100	8.4
<i>Cocconeis placentula</i>		49.4 $\pm$ 98.8	42.2 $\pm$ 19.3		19 $\pm$ 19.8			85.3 $\pm$ 190.6	29.4 $\pm$ 29.5
<i>Cocconeis placentula</i>			1.3 $\pm$ 2.6					150.3 $\pm$ 387.6	
<i>Craticula brudereri</i>		88.5			24.3 $\pm$ 35.7			2994.1 $\pm$ 6669.9	5.6
<i>Diploneis oploneis</i>								243.9 $\pm$ 231.3	
<i>Epithemia adnata</i>		13.3 $\pm$ 16.4			24.3 $\pm$ 35.7	6.2		791.4 $\pm$ 2016	314.3 $\pm$ 312.9
<i>Fragilaria ulna</i> var. <i>acus</i>		10.9 $\pm$ 16.4	13.2 $\pm$ 7.2		73.5	118.5	7.3	820.5 $\pm$ 1620.4	4.9
<i>Nitzschia filiformis</i>		34.9 $\pm$ 42.8	57.3 $\pm$ 43.5		50.5 $\pm$ 67.5	80.9 $\pm$ 120.1		1557.8 $\pm$ 3099.3	
<i>Nitzschia linearis</i>		68.9 $\pm$ 91.2	29.1 $\pm$ 21.2		32.6 $\pm$ 55.1	50.9 $\pm$ 62.4		1641.4 $\pm$ 3559.8	10.6 $\pm$ 9
<i>Nitzschia palea</i>		30.3 $\pm$ 60.3	10.3 $\pm$ 7.7		90 $\pm$ 158	56.2 $\pm$ 89.6		324.2 $\pm$ 488.1	
<i>Rhopalodia gibba</i>	21.9	4.9 $\pm$ 3.6	48.8 $\pm$ 60.9		7.4 $\pm$ 2.3		13.9	65.1 $\pm$ 142.4	5.7 $\pm$ 0.13
<i>Peridinium umbonatum</i>		1.9 $\pm$ 3.4			29.9 $\pm$ 27.8	34.8 $\pm$ 34.6	11.7	605.2 $\pm$ 2014.4	56 $\pm$ 64.8
<i>Characiopsis turgida</i>						866.4 $\pm$ 1167			
<i>Cryptomonas erosa</i>		988.5 $\pm$ 1690.1			970.9 $\pm$ 1654.9			2.8 $\pm$ 4.8	
<i>Cryptomonas marssonii</i>					466.6 $\pm$ 747.8			3.2 $\pm$ 5.6	
<i>Cryptomonas ovalata</i>		10.7	24.5		1699.4 $\pm$ 2943.5			56.4 $\pm$ 79.3	
<i>Phacus applanatus</i>					535.2 $\pm$ 857				
<i>Coelastrum sphaericum</i>					16.6			336.1 $\pm$ 646.4	45.9
<i>Oocystis</i> sp.		25.3			17.8 $\pm$ 10.2			471.6 $\pm$ 811.8	
<i>Oocystis marssonii</i>								127.2 $\pm$ 136.6	390.2 $\pm$ 495.9
<i>Characiopsis longipes</i>						565.2 $\pm$ 637.6			
<i>Closteriopsis acicularis</i>		11.9 $\pm$ 9.9			7735.8 $\pm$ 21498.5		23.3	176.6 $\pm$ 295.6	

<i>Closteriopsis longissima</i>	1609.4 ± 419.9	9.5		62.7 ± 72.2	962.3 ± 1892.6			
<i>Monoraphidium irregulare</i>	831.3 ± 810.9	2.1 ± 3.6		1180 ± 2246.7	84.3 ± 133.2	34.3 ± 17.5	127.2 ± 389.5	19.8 ± 19.7
<i>Monoraphidium contortum</i>	3003.7 ± 3131.7	7.9 ± 4.8		1613.5 ± 2696	423.9 ± 926.5	205 ± 317.5	211.8 ± 472.1	
<i>Monoraphidium graffithii</i>		6.3	5.2	173.9 ± 311	252.7 ± 433.1	99.9 ± 171	59.3 ± 101.5	
<i>Scenedesmus communis</i>		8.9 ± 13.7			205.6 ± 490.4	209.1 ± 332.6	138.5 ± 250	
<i>Scenedesmus dinorphus</i>	196.1 ± 162.9	18.2 ± 24.3	6.1	102.6 ± 59	41.1 ± 68.7	11.9	558.5 ± 584.3	5.9 ± 4.9
<i>Micospora floccosa</i>		5.1					1443.4 ± 1907.3	
<i>Zygnema sp.</i>		5.8	5.9 ± 0.5		438.8 ± 995.9	22.6	916.9 ± 833.9	
<i>Cosmarium cyclicum</i>		78.5 ± 134.7	5.2		35.9 ± 70.8	22.6 ± 18.4	230.2 ± 617.2	139.6 ± 90.9
<i>Cosmarium formosulum</i>							91.4 ± 112.4	6.6 2.8
<i>Cosmarium subcostatum</i>				153.3 ± 195.7		447.3 ± 499.1	7.2 ± 9.3	

Lymnaeidae			1		1.3 ± 0.6	9 ± 1		7.5 ± 12.4	3 ± 2.5
Physidae	2.5 ± 2.1	18 ± 19.4	4.1 ± 3.2	1	34.9 ± 45.5	43.7 ± 51.2	22	38.4 ± 24.1	28.9 ± 26.4
Chaoboridae		4.3 ± 3.2			1			1.6 ± 0.9	1.3 ± 0.5

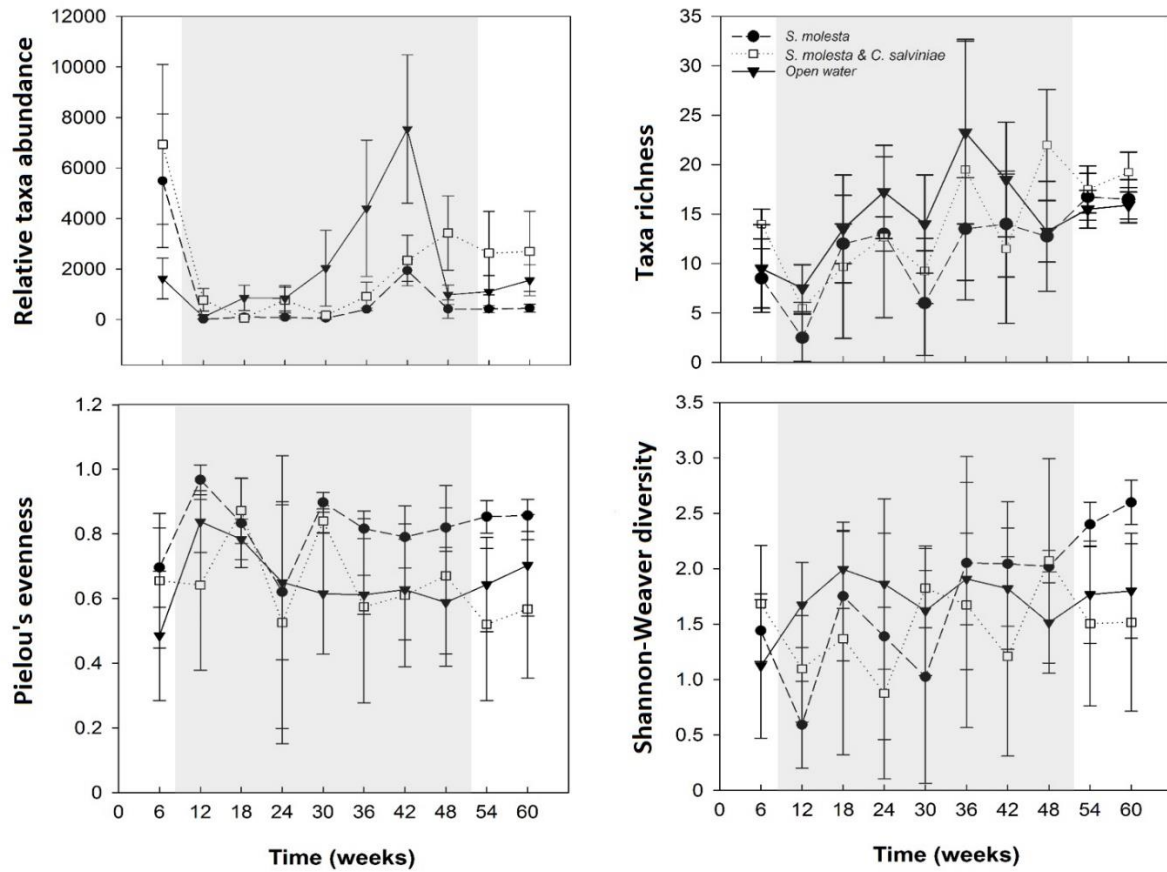


Figure S1. Epilithic algae biodiversity indices (mean and standard deviation) between treatments and invasion phase per week for 60 weeks. Where *S. molesta* – Impacted treatment; *S. molesta* & *C. salviniae* – Restored treatment; Open water – Control treatment.

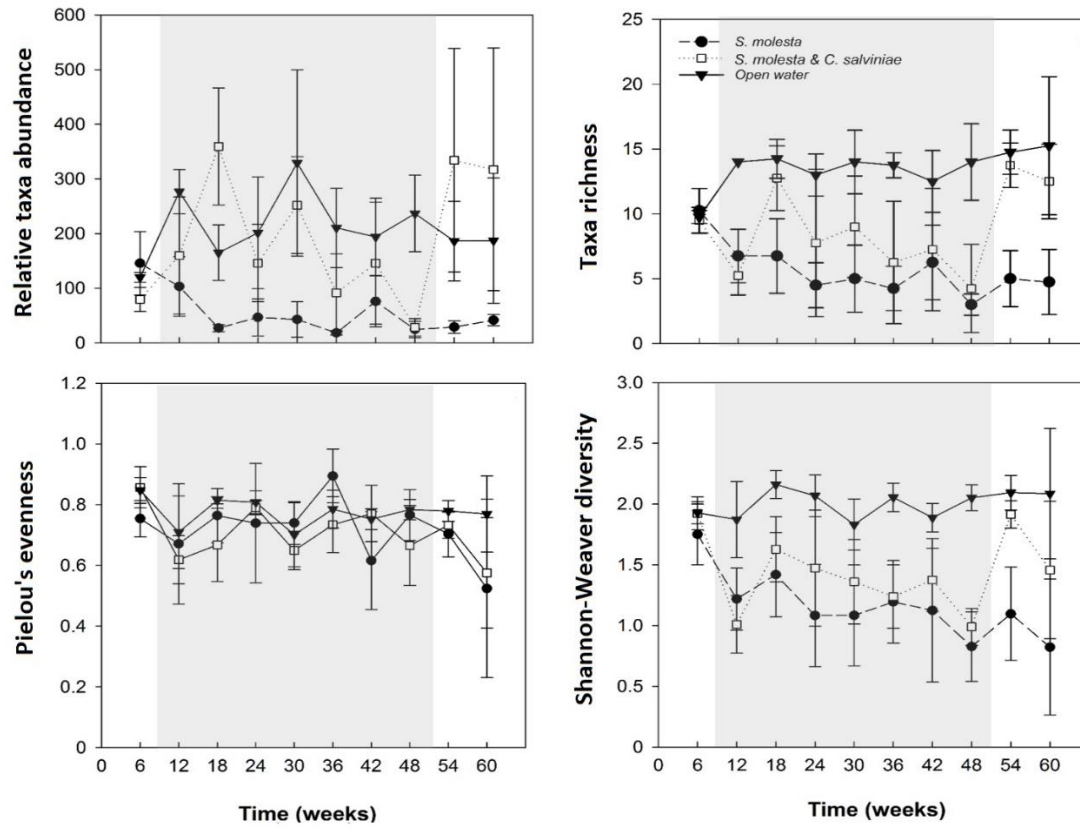


Figure S2. Aquatic macroinvertebrates biodiversity indices (mean and standard deviation) between treatments and invasion phase per week for 60 weeks. Where *S. molesta* – Impacted treatment; *S. molesta* & *C. salviniae* – Restored treatment; Open water – Control treatment.