

**The nematode assemblage of a coastal lagoon  
(Lake Varano, southern Italy): ecology  
and biodiversity patterns**

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Supplementary material

TABLE S1. – Geographic coordinates of the sampling stations, water depth and the physicochemical parameters of the bottom water and sediment characteristics.

Sample	Latitude (N)	Longitude (E)	Depth (m)	pH	Salinity	ORP	DO (mg/l)	Clay (%)	Silt (%)	Sand (%)	CaCO <sub>3</sub> (%)	TN (%)	TS (%)	TC (%)	TH (%)	TOC (%)	TOC/N	As ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Mn ppm	PLI	
V1	41.91035	15.79540	1.7	7.6	25.8	286.0	7.7	0.1	26.5	73.4	27.5	0.2	1.8	7.1	1.2	3.8	15.6	1.0	1.0	1.0	1.5	3.0	1.0	1.0	1.5	1.1	1.2	
V4	41.88888	15.72876	1.0	7.9	23.6	274.0	8.9	0.2	9.3	90.5	9.5	0.1	1.0	1.3	0.1	0.2	1.6	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.3	1.0
V7	41.90278	15.68663	1.7	7.8	29.5	261.0	8.5	1.2	35.6	63.2	41.3	0.1	0.9	6.1	0.4	1.1	11.0	1.0	1.0	2.0	6.5	11.0	4.0	2.0	6.0	1.7	2.8	
V11	41.89896	15.80245	2.8	7.7	26.4	275.0	5.9	2.1	54.6	43.3	26.9	0.1	1.3	5.2	0.9	1.9	19.4	3.5	1.4	7.0	16.0	22.0	11.0	12.0	14.0	1.9	7.1	
V13	41.89340	15.70475	3.7	7.7	31.9	242.0	7.1	1.3	59.9	38.8	42.7	0.2	1.3	7.8	1.0	2.7	13.6	3.5	1.6	6.0	13.0	20.0	10.5	9.5	12.5	2.7	6.8	
V15	41.89548	15.77463	3.8	7.6	28.8	228.0	5.7	0.6	45.6	53.8	30.8	0.3	1.6	7.5	1.1	3.8	14.0	2.0	1.8	6.0	15.5	21.0	11.5	12.5	14.5	3.2	7.1	
V18	41.88720	15.70695	3.9	7.9	26.7	196.0	9.6	0.8	38.8	60.4	28.1	0.3	1.7	7.0	1.1	3.6	13.3	2.0	2.0	7.0	17.5	25.0	13.5	14.0	16.5	2.7	7.8	
V20	41.88825	15.77258	3.7	7.8	26.2	205.0	10.7	0.5	55.7	43.7	20.5	0.3	1.6	6.5	1.2	4.1	13.0	2.0	1.6	7.0	17.0	23.0	13.0	13.0	16.0	3.7	7.6	
V27	41.87438	15.68676	3.3	7.8	24.5	188.0	9.4	0.6	48.9	50.5	42.1	0.4	1.1	9.2	1.2	4.2	11.3	1.5	1.6	5.0	14.0	22.0	10.5	14.0	14.3	2.0	6.3	
V29	41.87375	15.74068	3.2	8.0	24.1	178.0	10.9	0.5	31.7	67.8	22.6	0.3	1.6	6.2	1.2	3.5	12.9	2.5	1.8	7.0	18.0	21.0	13.0	14.5	17.0	3.0	7.8	
V31	41.87681	15.80341	3.1	7.8	24.4	176.0	9.1	4.8	79.0	16.2	18.4	0.2	1.1	4.8	1.2	2.6	14.8	4.0	1.6	9.0	21.5	25.0	16.0	16.0	20.3	2.7	9.1	
V32	41.87028	15.68426	2.4	7.9	23.5	174.0	9.8	0.6	42.6	56.8	56.4	0.2	1.2	10.7	0.8	3.9	17.9	1.0	1.0	2.0	5.0	9.0	4.0	5.5	5.0	1.7	2.9	
V35	41.86796	15.76660	3.9	7.9	26.1	173.0	12.8	0.8	40.5	58.7	24.0	0.2	1.4	5.9	1.2	3.0	12.8	2.5	1.8	8.0	17.0	21.0	13.0	15.0	16.8	3.2	8.0	
V37	41.86786	15.68441	2.3	7.9	23.5	166.0	9.3	1.1	56.8	42.1	80.8	0.2	1.2	10.9	0.8	1.2	5.7	1.0	1.0	1.0	3.5	7.0	2.5	4.0	3.5	1.0	2.1	
V39	41.86246	15.73985	3.9	8.0	25.0	164.0	10.8	0.9	39.1	60.0	24.9	0.3	1.3	6.3	1.3	3.3	11.5	1.5	2.0	7.0	17.0	21.0	13.0	14.5	16.3	3.0	7.4	
V41	41.86540	15.80436	2.3	7.9	23.8	164.0	8.4	2.7	59.1	38.2	10.3	0.1	1.1	3.0	1.1	1.7	17.4	6.0	2.4	12.0	24.5	33.0	19.5	17.5	25.3	2.7	11.4	
V42	41.86381	15.68983	2.2	7.9	23.6	168.0	9.3	0.8	45.8	53.4	63.4	0.2	1.1	10.9	1.0	3.3	13.2	1.0	1.0	3.0	6.0	11.0	4.5	6.5	6.0	1.2	3.3	
V47	41.84970	15.73873	3.0	7.9	24.2	167.0	9.2	1.0	65.1	33.9	34.1	0.4	1.3	7.9	1.3	3.8	10.7	2.0	1.6	6.0	12.5	17.0	9.5	12.0	12.5	3.8	6.5	
V48	41.85070	15.77556	2.5	7.9	24.0	165.0	9.2	0.2	7.0	48.4	33.9	0.1	1.0	5.1	0.5	1.0	10.2	2.0	1.2	6.0	11.0	10.0	6.0	7.0	10.5	3.8	5.2	
V49	41.85120	15.78318	2.5	7.8	23.4	165.0	7.6	0.5	34.9	64.6	47.6	0.1	1.4	7.1	0.6	1.3	13.4	2.0	1.2	4.0	7.5	10.0	5.0	7.0	7.5	2.7	4.3	
V50	41.84485	15.76125	2.1	7.9	23.0	165.0	9.0	0.6	67.0	32.4	44.4	0.1	1.1	6.7	0.5	1.3	13.4	1.0	1.0	3.0	6.0	8.0	3.5	6.0	6.5	3.4	3.4	

Table S2. – Percentages of the nematode species found in the study area.

Sample	V1	V4	V7	V11	V13	V15	V18	V20	V27	V29	V31	V32	V35	V37	V39	V41	V42	V47	V48	V49	V50
<i>Anoplostoma viviparum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	2.0
<i>Aponema torosa</i>	0.0	0.0	8.0	7.0	13.0	17.0	5.0	24.0	2.0	0.0	1.0	0.0	5.0	1.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0
<i>Axonolaimus caudostrigatus</i>	0.0	13.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Calomicrolaimus honestus</i>	6.0	0.0	3.0	7.0	0.0	1.0	7.0	2.0	0.0	17.0	1.0	2.0	3.0	0.0	0.0	1.0	1.0	2.0	21.0	0.0	1.0
<i>Chromadora yamadai</i>	3.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
<i>Chromadorella macris</i>	0.0	1.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Chromadorella salicaniensis</i>	1.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Chromadorina germanica</i>	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	3.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0
<i>Chromadorita</i> sp. 1	0.0	0.0	8.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	7.0	0.0	2.0	2.0	0.0	0.0	0.0	1.0	2.0	1.0
<i>Cyatholaimus gracilis</i>	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Daptonema</i> sp. 5	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Daptonema fistulatus</i>	0.0	0.0	1.0	0.0	0.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	6.0	0.0	10.0	0.0	0.0	0.0	0.0	2.0
<i>Daptonema curticauda</i>	0.0	0.0	0.0	1.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Daptonema</i> sp. 10	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
<i>Daptonema normandicum</i>	38.0	0.0	0.0	12.0	4.0	2.0	0.0	5.0	0.0	0.0	17.0	0.0	1.0	0.0	2.0	27.0	1.0	0.0	5.0	7.0	11.0
<i>Desmodora granulata</i>	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Diodontolaimus sabulosus</i>	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Leptolaimus luridus</i>	2.0	0.0	2.0	2.0	40.0	9.0	16.0	3.0	0.0	0.0	19.0	13.0	18.0	13.0	15.0	15.0	20.0	3.0	1.0	28.0	18.0
<i>Leptolaimus elegans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
<i>Metalinhomoeus</i> sp. 4	2.0	0.0	2.0	0.0	8.0	0.0	1.0	0.0	0.0	0.0	0.0	4.0	2.0	3.0	1.0	0.0	5.0	0.0	0.0	0.0	2.0
<i>Metalinhomoeus</i> sp. 3	0.0	0.0	7.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Metalinhomoeus biformis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Metalinhomoeus musaecauda</i>	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.0	0.0	1.0
<i>Microlaimus</i> sp. 2	11.0	0.0	1.0	1.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Molgolaimus allgeni</i>	5.0	0.0	4.0	16.0	18.0	44.0	51.0	35.0	76.0	80.0	36.0	50.0	64.0	36.0	56.0	14.0	18.0	69.0	32.0	15.0	15.0
<i>Neochromadora papillosa</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0
<i>Neochromadora poecilosomoides</i>	4.0	4.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
<i>Neochromadora</i> sp. 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0
<i>Odontophora wieseri</i>	6.0	31.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oncholaimus</i> sp. 1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oncholaimus longicaudatus</i>	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oncholaimus brevisetosus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oncholaimellus</i> sp. 1	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oncholaimellus mediterraneus</i>	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oxystomina</i> sp. 1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Paracanthochus longicaudatus</i>	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
<i>Paracomesoma dubium</i>	3.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Paracyatholaimus</i> sp. 1	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Paralinhomoeus</i> sp. 1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Paramonhystera pellucida</i>	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Procamacolaimus</i> sp. 1	2.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prycholaimellus macrodentatus</i>	2.0	0.0	8.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	0.0	0.0
<i>Sabatieria pulchra</i>	0.0	0.0	2.0	3.0	0.0	1.0	0.0	12.0	7.0	0.0	10.0	0.0	0.0	1.0	3.0	15.0	0.0	4.0	19.0	12.0	8.0
<i>Sabatieria pomarei</i>	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sphaerolaimus gracilis</i>	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.0	0.0	2.0
<i>Spilophorella euxina</i>	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Southerniella</i> sp. 1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Steireria simplex</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
<i>Synonchiella edax</i>	4.0	1.0	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0
<i>Terschellingia brevicauda</i>	1.0	0.0	4.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	1.0
<i>Terschellingia communis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0
<i>Terschellingia longicaudata</i>	6.0	0.0	18.0	45.0	6.0	12.0	7.0	14.0	11.0	0.0	11.0	4.0	2.0	27.0	15.0	16.0	27.0	17.0	1.0	20.0	13.0
<i>Terschellingia vestigia</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Thalassomonhystera parva</i>	0.0	0.0	1.0	0.0	0.0	3.0	0.0	0.0	2.0	2.0	0.0	6.0	0.0	2.0	1.0	3.0	0.0	3.0	12.0	6.0	17.0
<i>Theristus</i> sp. 1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0

Table S3. – Data matrix used for the statistical analysis.

Sample	V1	V4	V7	V11	V13	V15	V18	V20	V27	V29	V31	V32	V35	V37	V39	V41	V42	V47	V48	V49	V50
<i>A. torosa</i>	0.0	0.0	8.0	7.0	13.0	17.0	5.0	24.0	2.0	0.0	1.0	0.0	5.0	1.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0
<i>A. caudostrigatus</i>	0.0	13.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>C. honestus</i>	6.0	0.0	3.0	7.0	0.0	1.0	7.0	2.0	0.0	17.0	1.0	2.0	3.0	0.0	0.0	1.0	1.0	2.0	21.0	0.0	1.0
<i>D. fistulatus</i>	0.0	0.0	1.0	0.0	0.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	10.0	0.0	0.0	0.0	2.0
<i>D. normandicum</i>	38.0	0.0	0.0	12.0	4.0	2.0	0.0	5.0	0.0	0.0	17.0	0.0	1.0	0.0	2.0	27.0	1.0	0.0	5.0	7.0	11.0
<i>L. luridus</i>	2.0	0.0	2.0	2.0	40.0	9.0	16.0	3.0	0.0	0.0	19.0	13.0	18.0	13.0	15.0	15.0	20.0	3.0	1.0	28.0	18.0
<i>Microloaimus</i> sp. 2	11.0	0.0	1.0	1.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>M. allgeni</i>	5.0	0.0	4.0	16.0	18.0	44.0	51.0	35.0	76.0	80.0	36.0	50.0	64.0	36.0	56.0	14.0	18.0	69.0	32.0	15.0	15.0
<i>N. papillosa</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0
<i>O. wieseri</i>	6.0	31.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>P. longicaudatus</i>	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
<i>P. pellucida</i>	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>S. pulchra</i>	0.0	0.0	2.0	3.0	0.0	1.0	0.0	12.0	7.0	0.0	10.0	0.0	0.0	1.0	3.0	15.0	0.0	4.0	19.0	12.0	8.0
<i>T. longicaudata</i>	6.0	0.0	18.0	45.0	6.0	12.0	7.0	14.0	11.0	0.0	11.0	4.0	2.0	27.0	15.0	16.0	27.0	17.0	1.0	20.0	13.0
<i>T. parva</i>	0.0	0.0	1.0	0.0	0.0	3.0	0.0	0.0	2.0	2.0	0.0	6.0	0.0	2.0	1.0	3.0	0.0	3.0	12.0	6.0	17.0
MI	2.3	2.1	2.7	2.7	2.4	2.7	2.7	2.8	2.9	2.8	2.5	2.6	2.8	2.7	2.8	2.3	2.6	2.8	2.3	2.3	2.2
c-p1	0.0	0.0	1.0	0.0	0.0	3.0	0.0	0.0	2.0	2.0	0.0	6.0	0.0	2.0	1.0	3.0	0.0	3.0	12.0	6.0	17.0
c-p2	75.0	87.0	37.0	29.0	57.0	20.0	31.0	23.0	8.0	17.0	49.0	29.0	25.0	28.0	22.0	61.0	45.0	10.0	48.0	55.0	50.0
c-p3	24.0	13.0	58.0	71.0	43.0	77.0	69.0	77.0	89.0	81.0	51.0	64.0	75.0	69.0	77.0	36.0	55.0	87.0	40.0	39.0	33.0
c-p4	1.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1A	14.0	0.0	29.0	64.0	65.0	65.0	75.0	53.0	87.0	80.0	67.0	67.0	85.0	76.0	87.0	45.0	68.0	89.0	35.0	64.0	48.0
1B	47.0	63.0	19.0	18.0	17.0	13.0	3.0	18.0	10.0	2.0	27.0	16.0	3.0	13.0	7.0	46.0	20.0	8.0	37.0	27.0	43.0
2A	34.0	36.0	43.0	17.0	16.0	20.0	20.0	27.0	2.0	18.0	5.0	16.0	10.0	10.0	4.0	6.0	11.0	3.0	27.0	9.0	7.0
2B	5.0	1.0	9.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0	1.0	1.0	2.0	1.0	2.0	3.0	1.0	0.0	1.0	0.0	2.0
Richness	19.0	11.0	27.0	15.0	13.0	13.0	11.0	7.0	4.0	12.0	18.0	11.0	15.0	12.0	12.0	16.0	8.0	14.0	13.0	18.0	
Margalef	3.9	2.2	5.6	3.0	2.6	2.6	2.2	1.3	0.7	2.4	3.7	2.2	3.0	2.4	2.4	3.3	1.5	2.8	2.6	3.7	
Pielou	0.8	0.8	0.9	0.7	0.7	0.7	0.7	0.5	0.4	0.7	0.7	0.5	0.7	0.6	0.8	0.8	0.5	0.7	0.8	0.8	
Shannon	3.3	2.7	4.2	2.6	2.7	2.6	2.5	2.6	1.3	0.9	2.6	2.7	1.8	2.7	2.1	2.9	3.1	1.5	2.7	2.9	3.4
Simpson	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.8	0.4	0.3	0.8	0.7	0.6	0.8	0.6	0.8	0.8	0.5	0.8	0.8	0.9
pH	7.6	7.9	7.8	7.7	7.7	7.6	7.9	7.8	7.8	8.0	7.8	7.9	7.9	7.9	8.0	7.9	7.9	7.9	7.9	7.8	7.9
Salinity	25.8	23.6	29.5	26.4	31.9	28.8	26.7	26.2	24.5	24.1	24.4	23.5	26.1	23.5	25.0	23.8	23.6	24.2	24.0	23.4	23.0
DO	7.7	8.9	8.5	5.9	7.1	5.7	9.6	10.7	9.4	10.9	9.1	9.8	12.8	9.3	10.8	8.4	9.3	9.2	9.2	7.6	9.0
ORP	286	274	261	275	242	228	196	205	188	178	176	174	173	166	164	164	168	167	165	165	165
Clay	0.1	0.2	1.2	2.1	1.3	0.6	0.8	0.5	0.6	0.5	4.8	0.6	0.8	1.1	0.9	2.7	0.8	1.0	0.7	0.5	0.6
Silt	26.5	9.3	35.6	54.6	59.9	45.6	38.8	55.7	48.9	31.7	79.0	42.6	40.5	56.8	39.1	59.1	45.8	65.1	50.9	34.9	67.0
Sand	73.4	90.5	63.2	43.3	38.8	53.8	60.4	43.7	50.5	67.8	16.2	56.8	58.7	42.1	60.0	38.2	53.4	33.9	48.4	64.6	32.4
CaCO <sub>3</sub>	27.5	9.5	41.3	26.9	42.7	30.8	28.1	20.5	42.1	22.6	18.4	56.4	24.0	80.8	24.9	10.3	63.4	34.1	33.9	47.6	44.4
TN	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.4	0.1	0.1	0.1
TS	1.8	1.0	0.9	1.3	1.3	1.6	1.7	1.6	1.1	1.6	1.1	1.2	1.4	1.2	1.3	1.1	1.1	1.3	1.0	1.4	1.1
TC	7.1	1.3	6.1	5.2	7.8	7.5	7.0	6.5	9.2	6.2	4.8	10.7	5.9	10.9	6.3	3.0	10.9	7.9	5.1	7.1	6.7
TH	1.2	0.1	0.4	0.9	1.0	1.1	1.1	1.2	1.2	1.2	1.2	0.8	1.2	0.8	1.3	1.1	1.0	1.3	0.5	0.6	0.5
TOC	3.8	0.2	1.1	1.9	2.7	3.8	3.6	4.1	4.2	3.5	2.6	3.9	3.0	1.2	3.3	1.7	3.3	3.8	1.0	1.3	1.3
PLI	1.2	1.0	2.8	7.1	6.8	7.1	7.8	7.6	6.3	7.8	2.1	2.9	8.0	2.1	7.4	11.4	3.3	6.5	5.2	4.3	3.4