

Supplementary material

Supplementary Table 1. Densities (nb of individuals/m²) of the macrofaunal taxa identified in the 12 sampling units (C1-C12) on the Eiffel Tower edifice. Undet= undetermined. The total number of macrofaunal taxa for each sampling unit is also given.

Individuals/m ²	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
Porifera	16	0	0	0	0	0	0	36	0	0	0	0
Cnidaria-Anthozoa – Actiniaria	0	0	12	0	0	0	0	0	3000	0	0	0
Echinodermata-Ophiuroidea-Ophiuridae	0	0	0	0	0	0	0	0	0	0	30	63
Polychaeta												
<i>Archinome sp.</i>	0	0	24	0	0	0	0	0	0	0	0	0
<i>Ophryotrocha sp.</i>	1032	0	256	3531	388	0	0	0	0	0	1242	0
Dorvilleidae undet	0	0	12	0	633	0	0	0	0	0	0	0
<i>Glycera tessellata</i>	32	0	0	0	0	0	0	0	0	0	0	0
Glyceridae undet	16	0	0	0	0	0	0	0	0	0	0	0
<i>Branchinotogluma sp</i>	81	0	12	0	0	0	0	0	0	0	0	0
<i>Branchinotogluma fisheri</i>	16	0	0	0	0	0	0	0	0	0	0	31
<i>Branchinotogluma mesatlantica</i>	0	29	0	0	20	65	0	0	0	0	121	0
<i>Branchipolynoe seepensis</i>	2565	143	463	633	633	273	200	107	1846	754	1394	2594
<i>Branchipolynoe sp</i>	0	329	37	0	0	0	0	0	0	0	1394	0
<i>Lepidonotopodium jouinae</i>	0	14	0	0	0	0	0	0	0	0	0	0
Harmothoinae	0	0	0	0	0	0	0	0	0	0	0	31
Lepidonotinae	0	0	37	0	0	0	0	0	0	0	30	0
Polynoidae undet	16	0	0	1265	1551	156	300	0	0	0	91	0
<i>Laonice asaccata</i>	16	0	12	0	41	0	0	0	0	0	30	0
<i>Prionospio unilamellata</i>	16	0	24	0	0	0	0	0	0	0	61	31
Spionidae undet	0	0	12	0	143	0	0	0	0	0	0	125

<i>Amathys lutzi</i>	1984	529	9341	3224	5694	78	100	143	1385	393	1758	11594
Ampharetidae undet	0	0	0	0	20	0	0	0	0	0	0	0
Polychaeta undet	81	0	12	0	0	0	0	0	0	0	0	94
Hirudinea	0	0	0	0	20	0	0	0	0	0	0	31
<i>Bathymodiolus azoricus</i>	5484	857	2049	3776	7857	792	1200	214	7077	1475	4939	8500
<i>Laeviphitus desbruyeresi</i>	0	0	0	82	0	0	0	0	0	0	30	0
<i>Lepetodrilus atlanticus</i>	710	14	244	245	265	0	200	0	0	0	273	563
<i>Lurifax vitreus</i>	16	0	0	0	20	0	0	0	385	0	0	0
<i>Peltospira smaragdina</i>	0	0	0	0	0	13	0	36	0	0	0	0
<i>Pseudorimula midatlantica</i>	210	0	85	61	20	13	0	36	77	0	455	188
<i>Lirapex costellata</i>	81	0	0	0	122	0	0	0	1615	0	91	0
<i>Protolira valvatoides</i>	1468	14	256	408	714	0	0	0	3923	0	3636	281
<i>Shinkailepas briandi</i>	16	14	0	0	0	0	1100	36	0	0	0	0
Nemerta	0	0	73	0	143	0	0	0	0	0	182	31
Amphipoda	177	0	0	122	755	857	100	36	308	197	333	31
Isopoda	0	0	0	0	0	0	0	0	0	0	30	0
<i>Mirocaris fortunata</i>	323	1300	512	367	0	1325	10900	2679	77	1230	667	63
<i>Chorocaris chacei</i>	0	329	12	41	0	13	0	821	0	49	0	0
Alvinocarididae undet	0	114	49	41	0	0	0	0	0	148	30	63
<i>Segonzacia mesatlantica</i>	0	71	12	0	0	39	0	107	154	0	152	0
Pycnogonida	32	0	98	0	20	0	0	0	231	0	91	63

Supplementary Table 2. Densities (nb of individuals/m²) of the meiofaunal taxa identified (>250 µm) in the 12 sampling units (C1-C12) on the Eiffel Tower edifice. Undet= undetermined.

Ind/m ²	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
Acari_Halacaridae	0	0	500	20	0	0	0	0	0	0	61	0
Ostracoda	210	86	524	102	61	455	500	0	0	344	727	188
Tanaidacea	48	0	12	0	0	0	0	0	1077	0	61	31
Halomohystera	24177	84317	22691	18883	32315	2295	19708	5755	8627	6067	34114	4842
Cephalochaetosoma	262952	0	359815	109800	255285	470	1103	212	35553	2417	158166	455170
Leptolaimus	1516	411	119938	0	142184	0	276	0	523	668	26361	0
Paracanthochus	9065	0	12966	1399	25852	0	0	85	2876	51	6203	4842
Desmodora	0	0	42140	1399	71092	0	0	42	1569	103	23260	0
Microlaimus	9065	0	22691	3497	126027	28	276	42	15163	308	55823	9684
Chromadorita	0	0	64831	5595	25852	0	0	0	523	514	12405	24211
Epsilonema	0	0	0	0	0	0	0	0	3137	0	0	0
Syringolaimus	0	0	0	0	3231	0	138	0	0	0	9304	0
Viscosia	0	0	0	0	0	0	0	0	261	0	0	0
Theristus	0	0	0	0	0	0	0	0	1307	0	0	0
Calomicrolaimaus	0	0	0	0	0	0	0	0	0	51	0	0
Enoplidae	0	0	0	0	0	0	0	42	0	0	0	0

Nematod_undet	32	0	5317	0	3531	0	0	0	0	0	1091	1531
Aegisthidae (Andromastax)	0	0	0	0	0	0	0	0	0	0	30	0
Copepoda undet.	16	0	0	0	0	0	100	0	0	0	30	31
Cyclopinidae	145	0	2720	673	3510	0	0	0	0	0	91	1156
Dirivultidae	6726	3100	1427	8367	367	7961	600	643	154	33	4515	125
Ectinosomatidae	0	0	0	0	41	0	100	0	0	0	0	0
Lubbockiidae (Lubbockia)	0	0	0	0	0	0	0	0	0	0	30	0
Miraciidae (Amphiascus)	613	1071	3866	143	1204	130	0	0	0	0	152	406
Oithonidae (Oithona)	0	0	12	0	0	0	0	0	0	0	0	0
Pseudotachidiidae (<i>Xylora bathyalis</i>)	97	71	37	102	0	0	0	0	0	0	0	31
Spinocalanidae (new genus)	16	0	0	0	0	0	0	0	0	0	0	0
Tegastidae (Smacigastes)	306	14	33902	10633	56347	52	0	36	0	0	2091	4313
Tisbidae (Tisbe)	0	0	12	959	143	0	0	0	0	16	0	0

Supplementary Table 3. Identification of the macro- and meiofaunal taxa present in a single sampling unit and those present in 11 or all sampling units.

	Taxa present in a single sampling unit	Taxa present in 11 or all sampling units
Macrofauna	<i>Archinome</i> sp <i>Glycera tessellata</i> Glyceridae undet <i>Lepidonotopodium jouinae</i> <i>Harmothoinae</i> Ampharetidae undet Isopoda	<i>Mirocaris fortunata</i> <i>Branchipolynoe seepensis</i> <i>Amathys lutzi</i> <i>Bathymodiolus azoricus</i>
Meiofauna	<i>Epsilonema</i> <i>Viscosia</i> <i>Theristus</i> <i>Calomicrolaimus</i> <i>Enoplidae</i> <i>Aegisthidae Andromastax</i> (epibenthic) <i>Lubbockiidae</i> (planctonic <i>Lubbockia</i>) <i>Oithonidae</i> (planctonic <i>Oithona</i>) <i>Spinocalanidae</i> (new genus close to epibenthic <i>Methanocalanus</i>)	<i>Cephalochaetosoma</i> <i>Microlaimus</i> <i>Halomonhystera</i> Dirivultidae