

Supplementary Material

Table S1. All species identified represented as the total number of individuals per species and % for each gear: BS25 – 25 m beach seine, BS50 – 50 m beach seine, BT – beam trawl and RP – Riley push net.

Family	Species	BS25		BS50		BT		P		Total
		N	N (%)	N	N (%)	N	N (%)	N	N (%)	
Ammodytidae	<i>Ammodytes tobianus</i>	83	100	0	-	0	-	0	-	83
Anguillidae	<i>Anguilla anguilla</i>	53	28	18	9	100	53	19	10	190
Atherinidae	<i>Atherina</i> spp.	72351	75	18133	19	811	1	4684	5	95979
Balistidae	<i>Balistes capriscus</i>	2	100	0	-	0	-	0	-	2
Batrachoididae	<i>Halobatrachus didactylus</i>	88	12	57	8	580	80	0	-	725
Belonidae	<i>Belone belone</i>	6	67	3	33	0	-	0	-	9
Blenniidae	<i>Parablennius gattorugine</i>	74	48	49	32	20	13	12	8	155
	<i>Parablennius incognitus</i>	0	-	0	-	1	100	0	-	1
	<i>Parablennius pilicornis</i>	89	64	11	8	37	27	1	1	138
	<i>Parablennius sanguinolentus</i>	0	-	0	-	0	-	1	100	1
	<i>Salaria pavo</i>	6	35	1	6	9	53	1	6	17
Bothidae	<i>Arnoglossus laterna</i>	4	25	0	-	12	75	0	-	16
	<i>Arnoglossus thori</i>	282	52	19	4	237	44	1	0	539
	<i>Bothus podas</i>	6	16	0	-	30	79	2	5	38
Callionymidae	<i>Callionymus lyra</i>	0	-	0	-	1	100	0	-	1
	<i>Callionymus maculatus</i>	76	26	3	1	211	73	1	0	291
	<i>Callionymus reticulatus</i>	1	8	0	-	4	33	7	58	12
	<i>Callionymus risso</i>	9	38	0	-	15	63	0	-	24
Carangidae	<i>Caranx rhonchus</i>	1	100	0	-	0	-	0	-	1
	<i>Trachurus trachurus</i>	9	69	4	31	0	-	0	-	13
Clupeidae	<i>Alosa fallax</i>	0	-	1	100	0	-	0	-	1
	<i>Sardina pilchardus</i>	11309	91	1058	9	6	0	1	0	12374
Congridae	<i>Conger conger</i>	3	75	0	-	1	25	0	-	4
Engraulidae	<i>Engraulis encrasicolus</i>	702	98	17	2	0	-	0	-	719
Gobiesocidae	<i>Diplecogaster bimaculata</i>	5	13	3	8	7	18	24	62	39
	<i>Lepadogaster candolii</i>	0	-	0	-	1	100	0	-	1
Gobiidae	<i>Aphia minuta</i>	0	-	0	-	17	65	9	35	26
	<i>Gobius couchi</i>	91	14	78	12	483	72	19	3	671
	<i>Gobius cruentatus</i>	9	18	1	2	38	75	3	6	51
	<i>Gobius niger</i>	6000	34	873	5	9634	55	1027	6	17534
	<i>Gobius paganellus</i>	290	16	307	17	987	54	251	14	1835
	<i>Pomatoschistus microps</i>	460	1	36	0	463	1	64655	99	65614
	<i>Pomatoschistus minutus</i>	243	47	6	1	253	49	18	3	520
	<i>Pomatoschistus pictus</i>	24	8	1	0	173	55	114	37	312
Haemulidae	<i>Pomadasys incisus</i>	1	33	0	-	0	-	2	67	3
Labridae	<i>Centrolabrus exoletus</i>	0	-	0	-	1	100	0	-	1
	<i>Coris julis</i>	9	69	1	8	3	23	0	-	13

	<i>Ctenolabrus rupestris</i>	0	-	3	60	2	40	0	-	5
	<i>Labrus bergylta</i>	2	25	6	75	0	-	0	-	8
	<i>Labrus mixtus</i>	0	-	1	100	0	-	0	-	1
	<i>Labrus viridis</i>	13	34	20	53	5	13	0	-	38
	<i>Symphodus bailloni</i>	993	39	450	18	899	35	223	9	2565
	<i>Symphodus cinereus</i>	2209	39	222	4	2984	52	269	5	5684
	<i>Symphodus ocellatus</i>	10	23	33	77	0	-	0	-	43
	<i>Symphodus roissali</i>	43	34	53	42	6	5	23	18	125
	<i>Symphodus rostratus</i>	0	-	2	100	0	-	0	-	2
Moronidae	<i>Dicentrarchus labrax</i>	6392	89	503	7	58	1	226	3	7179
	<i>Dicentrarchus punctatus</i>	44	54	38	46	0	-	0	-	82
Mugilidae	<i>Chelon labrosus</i>	1319	71	516	28	0	-	16	1	1851
	<i>Chelon auratus</i>	1136	61	731	39	0	-	0	-	1867
	<i>Chelon ramada</i>	7	88	1	13	0	-	0	-	8
	<i>Chelon saliens</i>	96	28	212	61	0	-	40	11	348
Mullidae	<i>Mullus surmuletus</i>	477	82	82	14	23	4	1	0	583
Pomatomidae	<i>Pomatomus saltatrix</i>	256	100	0	-	0	-	0	-	256
Rajidae	<i>Raja undulata</i>	2	8	4	16	19	76	0	-	25
Scophthalmidae	<i>Scophthalmus rhombus</i>	1	100	0	-	0	-	0	-	1
Scorpaenidae	<i>Scorpaena notata</i>	125	33	14	4	239	63	3	1	381
	<i>Scorpaena porcus</i>	620	45	482	35	212	15	67	5	1381
Serranidae	<i>Serranus atricauda</i>	1	100	0	-	0	-	0	-	1
	<i>Serranus cabrilla</i>	6	86	1	14	0	-	0	-	7
	<i>Serranus hepatus</i>	121	81	5	3	21	14	3	2	150
Soleidae	<i>Dicologlossa hexophthalma</i>	0	-	0	-	2	100	0	-	2
	<i>Microchirus azevia</i>	3	5	0	-	59	95	0	-	62
	<i>Microchirus boscanion</i>	19	24	0	-	59	76	0	-	78
	<i>Microchirus theophila</i>	0	-	2	100	0	-	0	-	2
	<i>Monochirus hispidus</i>	20	49	0	-	20	49	1	2	41
	<i>Pegusa lascaris</i>	4	21	0	-	15	79	0	-	19
	<i>Solea senegalensis</i>	3	20	3	20	9	60	0	-	15
Sparidae	<i>Boops boops</i>	389	93	9	2	18	4	1	0	417
	<i>Dentex dentex</i>	1	50	0	-	1	50	0	-	2
	<i>Dentex macrophthalmus</i>	0	-	0	-	0	-	2	100	2
	<i>Diplodus annularis</i>	1871	63	135	5	916	31	33	1	2955
	<i>Diplodus bellottii</i>	1250	75	139	8	286	17	0	-	1675
	<i>Diplodus puntazzo</i>	435	85	59	12	15	3	0	-	509
	<i>Diplodus sargus</i>	1285	63	403	20	337	17	0	-	2025
	<i>Diplodus vulgaris</i>	5610	62	1246	14	1405	15	841	9	9102
	<i>Lithognathus mormyrus</i>	100	94	1	1	5	5	0	-	106
	<i>Oblada melanura</i>	2	67	1	33	0	-	0	-	3
	<i>Pagellus acarne</i>	1	100	0	-	0	-	0	-	1
	<i>Pagellus bogaraveo</i>	15	58	9	35	1	4	1	4	26
	<i>Pagellus erythrinus</i>	6	100	0	-	0	-	0	-	6
	<i>Pagrus auriga</i>	1	100	0	-	0	-	0	-	1
	<i>Pagrus pagrus</i>	4	100	0	-	0	-	0	-	4
	<i>Sarpa salpa</i>	859	48	856	48	76	4	4	0	1795
	<i>Sparus aurata</i>	214	43	259	52	16	3	9	2	498
	<i>Spicara maena</i>	19	90	0	-	2	10	0	-	21
	<i>SpondylIOSoma cantharus</i>	5029	60	958	11	2077	25	292	3	8356
Stromateidae	<i>Stromateus fiatola</i>	0	-	0	-	1	100	0	-	1
Syngnathidae	<i>Entelurus aequoreus</i>	0	-	0	-	1	100	0	-	1
	<i>Hippocampus guttulatus</i>	1327	44	362	12	1289	43	31	1	3009
	<i>Hippocampus hippocampus</i>	171	27	125	20	326	52	10	2	632
	<i>Nerophis lumbriciformis</i>	0	-	0	-	1	25	3	75	4
	<i>Nerophis ophidion</i>	39	8	11	2	7	1	427	88	484

	<i>Syngnathus abaster</i>	32	3	13	1	29	3	894	92	968
	<i>Syngnathus acus</i>	136	23	147	25	246	42	54	9	583
	<i>Syngnathus typhle</i>	212	16	100	8	228	17	769	59	1309
Tetraodontidae	<i>Sphoeroides spengleri</i>	3	38	3	38	2	25	0	-	8
Torpedinidae	<i>Torpedo marmorata</i>	1	100	0	-	0	-	0	-	1
	<i>Torpedo torpedo</i>	1	50	1	50	0	-	0	-	2
Trachinidae	<i>Echiichthys vipera</i>	0	-	0	-	5	100	0	-	5
	<i>Trachinus draco</i>	15	39	0	-	23	61	0	-	38
Triglidae	<i>Chelidonichthys cuculus</i>	1	100	0	-	0	-	0	-	1
	<i>Chelidonichthys lastoviza</i>	3	100	0	-	0	-	0	-	3
	<i>Chelidonichthys obscurus</i>	2	66	0	-	1	34	0	-	3
	<i>Lepidotrigla cavillone</i>	1	25	1	25	2	50	0	-	4
	<i>Chelidonichthys lucerna</i>	6	27	16	73	0	-	0	-	22
Total		125249		28918		26083		75095		255345

Table S2. Generalized linear models results of diversity measures according to sampling gear, presence of vegetation and season. Interactions between gear, vegetation and season included and main area as a fixed effect. Significance codes: *** $p < 0.0001$; ** $p < 0.01$; * $p < 0.05$; $p > 0.05$ (non-significant, ns).

Predictor	Level	Response									
		Species richness (S)		Species diversity (H)		Species evenness (J)		Phylogenetical diversity (PD)		Functional diversity (FD)	
		COEF	p	COEF	p	COEF	p	COEF	p	COEF	p
Intercept	(25mBS/UNVEG/Autumn/Area O)	7.16	***	1.56	***	0.84	***	89.48	***	0.21	***
Gear	50m BS	7.05	***	0.68	***	0.01	ns	-4.17	ns	0.04	ns
	Beam trawl	3.47	***	0.55	***	0.09	***	-9.91	***	0.03	ns
	Pushnet	0.26	ns	-0.51	***	-0.32	***	-19.88	***	-0.17	***
Vegetation	VEG	4.27	***	0.44	***	0.02	ns	-2.46	**	0.05	***
Season	S	3.29	***	0.28	***	0.00	ns	-2.32	ns	0.01	ns
	SP	0.49	ns	-0.04	ns	-0.04	**	2.47	ns	-0.03	*
	W	-1.91	***	-0.23	***	-0.02	ns	2.60	*	-0.02	ns
Main Area	C (channel)	0.34	ns	0.06	ns	0.01	ns	0.60	ns	0.02	*
	I (inner)	0.34	ns	-0.01	ns	-0.01	ns	-0.98	ns	0.00	ns

Gear*VEG	50mBS-VEG	-4.35	ns	-0.27		0.04	ns	3.05	ns	-0.02	ns
	Beam trawl - VEG	-0.85	ns	-0.22	*	-0.04	*	-2.28	ns	-0.02	ns
	Pushnet-VEG	-0.91	ns	0.61	***	0.34	***	9.75	***	0.17	***
Gear*Season	50mBS-S	3.56	*	0.14	ns	0.03	ns	-2.43	ns	0.03	ns
	BeamTrawl-S	0.11	ns	-0.01	ns	0.02	ns	2.30	ns	0.06	*
	Pushnet-S	-2.86	*	-0.24	ns	0.01	ns	6.39	*	0.04	ns
	50mBS-SP	1.80	ns	0.05	ns	0.01	ns	-1.60	ns	0.05	ns
	BeamTrawl-SP	2.12	*	0.19	ns	0.03	ns	-1.53	ns	0.04	ns
	Pushnet-SP	0.81	ns	0.18	ns	0.06	ns	1.69	ns	0.11	**
	50mBS-W	0.34	ns	0.03	ns	-0.02	ns	2.38	ns	0.00	ns
	BeamTrawl-W	0.89	ns	0.08	ns	0.00	ns	-1.37	ns	-0.04	ns
	Pushnet-W	-0.48	ns	-0.01	ns	0.03	ns	-6.45	*	0.02	ns