

Table S5 Overview of the relationship between mean trophic position of selected fish species and year (Year) according to $PO \sim s$ (Near)-resident: Near-resident or resident species; JMM: juveniel marine migrants; MSV: Marine seasonal visitor

Scientific name	Common name	Functional group	Guild	Total number of years with observations	SPAN	Degree		Estimate	Std. Error	t value	Pr(> t)		edf	Ref.df	F	p-value	R-sq(adj)	R-sq(pseudo)	Deviance explained
<i>Belone belone</i>	Garfish	Pelagic	(Near)-resident	26	0,3	2	(Intercept)	72,063	5,108	14,11	2,17e-08 ***	s(mean)	4	4	0,333	0,850	-0,216	0.138	10,80%
<i>Alosa fallax</i>	Twaite shad	Pelagic	(Near)-resident	24	0,3	2	(Intercept)	80,714	1,298	62,17	3,63e-13 ***	s(mean)	4	4	0,535	0,714	-0,167	0.014	19,20%
<i>Atherina presbyter</i>	Sand-smelt	Pelagic	(Near)-resident	22	0,3	2	(Intercept)	76,000	8,19	9,28	0,00265**	s(mean)	4	4	0,267	0,882	-0,72	0.044	26,3%
<i>Clupea harengus</i>	Herring	Pelagic	JMM	19	0,3	2	(Intercept)	70,750	4,092	17,29	2,57e-11***	s(mean)	4	4	1,383	0,287	0,075	0.036	26,90%
<i>Sprattus sprattus</i>	Sprat	Pelagic	JMM	16	0,3	2	(Intercept)	66,600	5,625	11,84	3,32e-07***	s(mean)	4	4	1,285	0,339	0,075	0.055	33,90%
<i>Trachurus trachurus</i>	Scad	Pelagic	MSV	28	0,3	2	(Intercept)	69,900	4,241	16,48	5,1e-11***	s(mean)	4	4	2,087	0,133	0,186	0.015	35,70%
<i>Osmerus eperlanus</i>	Smelt	Pelagic	MSV	17	0,3	2	(Intercept)	69,188	5,217	13,26	4,141e-08 ***	s(mean)	4	4	0,220	0,921	-0,262	0.014	7,46%
<i>Merlangius merlangus</i>	Whiting	Benthopelagic	MSV	24	0,3	2	(Intercept)	69,087	4,049	17,06	1,47e-12 ***	s(mean)	4	4	0,496	0,739	-0,101	0.021	9,93%
<i>Trisopterus luscus</i>	Bib	Benthopelagic	MSV	22	0,3	2	(Intercept)	62,364	4,898	12,73	4,05e-10***	s(mean)	4	4	1,937	0,150	0,151	0.158	31,30%
<i>Gadus morhua</i>	Cod	Benthopelagic	MSV	18	0,3	2	(Intercept)	62,789	4,071	15,42	3,52e-10 ***	s(mean)	4	4	3,039	0,0535*	0,312	0.146	46,50%
<i>Anquilla anquilla</i>	Eel	Benthopelagic	MSV	17	0,3	2	(Intercept)	46,625	5,127	9,09	0,00281**	s(mean)	4	4	1,335	0,423	0,161	0.035	64,00%
<i>Ciliata mustela</i>	Five-bearded rockling	Benthic	(Near)-resident	30	0,3	2	(Intercept)	71,526	5	15,49	3,33e-10***	s(mean)	4	4	1,069	0,408	0,015	0.156	26,40%
<i>Platichthys flesus</i>	Flounder	Benthic	(Near)-resident	30	0,3	2	(Intercept)	63,750	4	17,80	6,05e-15***	s(mean)	4	4	2,037	0,123	0,133	0.117	26,20%
<i>Myoxocephalus scorpius</i>	Bull-rout	Benthic	(Near)-resident	28	0,3	2	(Intercept)	63	4	14,76	1,68e-11***	s(mean)	4	4	2,084	0,125	0,165	0.023	31,70%
<i>Zoarces viviparus</i>	Viviparous blenny	Benthic	(Near)-resident	22	0,3	2	(Intercept)	50,200	5	11,10	6,08e-07***	s(mean)	4	4	2,480	0,111	0,297	0.011	49,80%
<i>Pomatoschistus minutus</i>	Sand goby	Benthic	(Near)-resident	16	0,3	2	(Intercept)	68	5	12,67	1,75e-07***	s(mean)	4	4	0,495	0,740	-0,169	0.157	16,50%
<i>Pleuronectes platessa</i>	Plaice	Benthic	JMM	33	0,3	2	(Intercept)	56	4	14,04	3,36e-14 ***	s(mean)	4	4	1,354	0,275	0,042	0.133	16,20%
<i>Solea solea</i>	Sole	Benthic	JMM	24	0,3	2	(Intercept)	51	5	9,58	5,69e-07***	s(mean)	4	4	1,267	0,336	0,063	0.091	29,70%
<i>Limanda limanda</i>	Dab	Benthic	MSV	29	0,3	2	(Intercept)	51	5	10,06	6853e-10***	s(mean)	4	4	0,041	0,997	-0,166	0.004	0,70%
<i>Chelon labrosus</i>	Thick-lipped grey mullet	Benthic	MSV	29	0,3	2	(Intercept)	77,733	1,223	63,55	2,26e-14***	s(mean)	4	4	21,220	7,12e-05***	0,852	0.093	89,50%
<i>Echiichthys vipera</i>	Lesser weever	Benthic	MSV	16	0,3	2	(Intercept)	53	8	6,29	0,00041***	s(mean)	4	4	1,328	0,348	0,106	0.194	43,10%