

Table S3 Overview of the relationship between mean occurrence of the various prey items (PO) in the stomachs 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
Only years with mre than 5 observations are included

Scientific name	Common name	Functional group	Guild	Prey item	Total number of years with observations	SPAN	Degree												Deviance explained
								Estimate	Std. Error	t value	Pr(> t)	s(mean)	edf	Ref.df	F	p-value	R-sq(adj)		
Clupea harengus	Herring	Pelagic	JMM	Bivalves		0,3	2	(Intercept)	80,57	1,72	46,89	1,2e-06***	s(mean)	2	2	0,267	0,778	-0,323	11,8%
				Malacostraca	19	0,3	2	(Intercept)	70,47	3,86	8,24	3,7e-11***	s(mean)	2	2	2,572	0,0166*	0,286	44,3%
				Pisces	13	0,3	2	(Intercept)	73,25	4,95	14,79	1,28e-07***	s(mean)	2	2	1,067	0,384	0,012	9,2%
				Polychaeta	9	0,3	2	(Intercept)	76,78	5,58	13,77	9,14e-06***	s(mean)	2	2	0,593	0,582	-0,113	16,5%
Sprattus sprattus	Sprat	Pelagic	JMM		8	0,3	2	(Intercept)	44,87	32,72	1,37	0,219	s(mean)	2	2	0,080	0,787	-0,151	NaN
Trachurus trachurus	Scad	Pelagic	MSV	Malacostraca	16	0,3	2	(Intercept)	71,64	6,04	11,87	2,33e-06***	s(mean)	2	2	0,764	0,497	-0,050	16,0%
				Pisces	15	0,3	2	(Intercept)	71,67	7,34	9,77	6,61e-05***	s(mean)	2	2	0,378	0,700	-0,184	11,2%
Osmerus eperlanus	Smelt	Pelagic	MSV	Malacostraca	12	0,3	2	(Intercept)	69,11	6,20	11,14	3,12e-05***	s(mean)	2	2	1,766	0,249	0,161	37,1%
				Pisces	13	0,3	2	(Intercept)	69,00	6,21	11,12	3,15e-05***	s(mean)	2	2	1,857	0,236	0,176	38,2%
Merlangius merlangus	Whiting	Benthopelagic	MSV	Malacostraca	22	0,3	2	(Intercept)	69,68	4,04	17,20	9,3e-12 ***	s(mean)	2	2	1,806	0,196	0,082	18,4%
				Pisces	18	0,3	2	(Intercept)	68,38	4,73	14,45	2,8e-09 ***	s(mean)	2	2	0,770	0,483	-0,032	10,6%
Trisopterus luscus	Bib	Benthopelagic	MSV	Malacostraca	22	0,3	2	(Intercept)	67,36	5,62	11,99	1,17e-07 ***	s(mean)	2	2	2,641	0,116	0,202	32,4%
				Pisces	11	0,3	2	(Intercept)	7,10	5,37	13,23	3,29e-06***	s(mean)	2	2	5,195	0,0414*	0,482	59,7%
Gadus morhua	Cod	Benthopelagic	MSV	Malacostraca	18	0,3	2	(Intercept)	68,92	4,23	16,31	1,56e-08***	s(mean)	2	2	2,815	0,107	0,232	36,0%
Ciliata mustela	Five-bearded rockling	Benthic	(Near)-resident	Malacostraca	19	0,3	2	(Intercept)	81,00	1.246,00	64,99	2e-16***	s(mean)	2	2	0,008	0,992	-0,165	0,1%
				Pisces	10	0,3	2	(Intercept)	80,90	1,67	48,41	4,2e-10***	s(mean)	2	2	0,168	0,848	-0,227	4,6%
Platichthys flesus	Flounder	Benthic	(Near)-resident	Bivalves	14	0,3	2	(Intercept)	67,92	3,85	17,64	2,7e-08***	s(mean)	2	2	9,043	0,00703**	0,594	66,8%
				Malacostraca	20	0,3	2	(Intercept)	70,10	3,68	19,04	6,68e-13***	s(mean)	2	2	3,87	0,050	0,201	28,5%
Myoxocephalus scorpius	Bull-rout	Benthic	(Near)-resident	Malacostraca	23	0,3	2	(Intercept)	59,69	5,57	10,72	7,94e-08***	s(mean)	2	2	1,795	0,205	0,096	21,6%
				Pisces	12	0,3	2	(Intercept)	52,82	72,47	7,29	8,94e-05***	s(mean)	2	2	0,928	0,434	-0,015	18,8%
Zoarces viviparus	Viviparous blenny	Benthic	(Near)-resident	Malacostraca	14	0,3	2	(Intercept)	43,00	5,44	7,90	0,0156*	s(mean)	2	2	0,169	0,855	-0,711	14,5%
Pomatoschistus minutus	Sand goby	Benthic	(Near)-resident	Malacostraca		0,3	2	(Intercept)	57,50	7,53	7,63	0,000614***	s(mean)	2	2	0,844	0,469	-0,034	26,1%
				Polychaeta		0,3	2	(Intercept)	54,43	8,42	6,47	0,00295**	s(mean)	2	2	0,564	0,608	-0,170	22,0%
Pleuronectes platessa	Plaice	Benthic	JMM	Bivalvia	20	0,3	2	(Intercept)	53,50	5,48	9,76	2,21e-08***	s(mean)	2	2	0,049	0,952	-0,111	0,6%
				Malacostraca	27	0,3	2	(Intercept)	56,24	4,77	11,80	5,39e-11***	s(mean)	2	2	1,466	0,252	0,037	11,8%
				Polychaeta	31	0,3	2	(Intercept)	53,86	4,57	11,79	1,05e-11***	s(mean)	2	2	0,176	0,839	-0,065	1,4%
Solea solea	Sole	Benthic	JMM	Malacostraca	11	0,3	2	(Intercept)	44,14	8,44	5,23	0,00637**	s(mean)	2	2	2,248	0,222	0,294	52,9%
				Polychaeta	14	0,3	2	(Intercept)	52,00	9,22	5,65	0,00133**	s(mean)	2	2	0,197	0,826	-0,251	6,2%
Limanda limanda	Dab	Benthic	MSV	Malacostraca	23	0,3	2	(Intercept)	41,65	5,40	7,71	2,09e-06***	s(mean)	2	2	2,296	0,137	0,139	24,7%
				Pisces	11	0,3	2	(Intercept)	4,10	5,45	7,35	0,000156***	s(mean)	2	2	1,409	0,306	0,083	28,7%
				Polychaeta	19	0,3	2	(Intercept)	46,31	52,46	8,83	7,48e-07***	s(mean)	2	2	1,429	0,275	0,054	18,0%