



Figure S1. Summary of sampling effort in historical logbook data. Top: average tow duration (when recorded) for Otter trawl sets. Bottom: number of tows by sampling gear

Table S1. Percentiles of the marginal posterior probabilities for GLMM coefficients for sampling gear

Species	Frequency of Occurrence Bottom Trawl			Frequency of Occurrence Shrimp Trawl			Positive Catch Rate Bottom Trawl			Positive Catch Rate Shrimp Trawl		
	10%	50%	90%	10%	50%	90%	10%	50%	90%	10%	50%	90%
English sole	-1.78	0.49	3.12	0.59	2.02	4.36	-7.4	-5.27	-2.47	-0.77	-0.2	0.74
Spiny dogfish	0.09	1.39	3.08	0.28	1.54	3.16	-1.77	-1.18	-0.71	-0.62	-0.36	0.03
Spotted ratfish	-2.25	-0.74	0.62	0.52	3.13	5.55	-0.97	0.57	1.43	0.22	0.49	0.78
Pacific cod	-2.13	-0.9	0.21	-1.22	-0.39	0.4	-1.3	0.28	1.77	-1.1	-0.52	0.07
Pacific whiting	-1.47	0.67	2.27	-1.12	-0.13	0.91	-3.48	-2.32	-1.08	-0.54	0.18	1.12
Pacific sanddab	-1.92	-0.71	0.3	-3.37	-1.88	-0.68	1.02	1.37	1.72	-0.81	-0.32	1.06
Pacific tomcod	-1.3	0.36	1.62	2.05	2.86	3.95	-1.97	-0.57	0.35	-0.44	0.9	2.39
Walleye pollock	-1.12	0.25	1.26	0.44	1.14	2.02	-0.61	0.86	3.88	-1.56	-1.07	-0.46
Plainfin midshipman	0.61	1.72	3.11	-13.54	-10.6	-8.58	-3.14	-1.07	-0.14	-4.15	-2.72	-1.64
Blackbelly eelpout	-1.55	-0.09	1.07	-7.14	-4.77	-3.25	-1.41	-0.01	0.84	-4.06	-2.72	-1.87
Lingcod	-1.6	0.08	1.58	-0.91	0.14	1.21	-2.5	0.09	2.41	-1.42	-0.42	1.06
Shiner perch	-1.15	0.07	1.36	-5.17	-1.66	2.84	-2	-1.17	-0.42	-9.74	-8.31	-6.53
Longnose skate	0	1.03	2.25	-34.2	-8.66	2.19	-0.64	0.22	0.81	-0.54	0.26	0.8
Big skate	-2.8	-1.41	-0.39	-3.3	-2.26	-0.46	-0.61	-0.37	-0.18	-0.09	0.08	0.28
Rock sole	-2.99	-0.89	0.4	-6.28	-4.4	-1.75	-2.31	-0.61	0.21	-6.04	-4.14	-2.8