

Commercial fishing patterns influence odontocete whale-longline interactions in the Southern Ocean

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Table S3

Collinearity tests for the GLMs fitted to the annual proportions of fishing days with whale depredation interactions

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Table S3. Results from the tests of collinearity between covariates used in the GLMs fitted to the proportion of fishing days with sperm whale and killer whale interactions recorded out of all fishing days at the vessel level ($Pr(days)_{vessel}$) and at the fleet level ($Pr(days)_{fleet}$).

Vessel level							
Covariate correlation (r)	Depth	Total size of fishing area	Density of vessels	Fishing effort	Mobility of vessels	Proportion of days in winter	Proportion of effort with cachaloteras
Depth	1.00	-0.02	-0.08	0.26	-0.25	-0.03	0.49
Total size of fishing area	-0.02	1.00	-0.48	0.51	0.26	-0.26	-0.17
Density of vessels	-0.08	-0.48	1.00	-0.35	-0.45	0.51	-0.18
Fishing effort	0.26	0.51	-0.35	1.00	-0.21	0.01	0.24
Mobility of vessels	-0.25	0.26	-0.45	-0.21	1.00	-0.39	0.20
Proportion of days in winter	-0.03	-0.26	0.51	0.01	-0.39	1.00	-0.22
Proportion of effort with cachaloteras	0.49	-0.17	-0.18	0.24	0.20	-0.22	1.00
Fleet level							
Covariate correlation (r)	Depth	Total size of fishing area	Density of vessels	Fishing effort	Mobility of vessels	Proportion of days in winter	Proportion of effort with cachaloteras
Depth	1.00	-0.16	-0.17	0.21	-0.33	-0.14	0.70
Total size of fishing area	-0.16	1.00	-0.43	0.70	0.79	-0.13	-0.33
Density of vessels	-0.17	-0.43	1.00	-0.69	0.09	0.47	-0.15
Fishing effort	0.21	0.71	-0.69	1.00	0.18	-0.37	0.06
Mobility of vessels	-0.33	0.79	0.09	0.18	1.00	0.27	-0.53
Proportion of days in winter	-0.14	-0.13	0.47	-0.37	0.27	1.00	-0.31
Proportion of effort with cachaloteras	0.70	-0.33	-0.15	0.06	-0.53	-0.31	1.00