

Table S1. Characteristics of large mesh ($\geq 8''$) sink gillnet fleet 2015-2019¹. SD = Standard deviation.

Vessels (n)	195
Homeports (n)	44
Homeports by state (n)	MA (14) NJ (6) NY (5) RI (4) ME (4) NH (3) VA (3) MD (2) CT (1) DE (1) NC (1)
State or homeport (% of trips)	MA (45%) RI (17%) NJ (15%) NY (12%) NH (5%) VA (2%) CT (2%) ME (2%)
Main species targeted (% of trips)	Skate (<i>Rajidae</i>) spp. (53%) Monkfish (<i>Lophius americanus</i>) (39%) Spiny dogfish (<i>Squalus acanthias</i>) (2%) Fluke (<i>Paralichthys dentatus</i>) (1%) Other mixed spp. (5%)

Average Soak time (hrs)	73.8
Soak time SD/Range	41.9/1 - 235
Average Depth (m)	54.1
Depth SD/Range	39.7/5 - 347
Average number of annual trips per vessel/Range	38 / 1 - 157
Average distance fished from shore² (km)	30.3
SD distance fished/Range	32.2/<1 – 284.8
Calendar quarter (% of trips)	Jan – Mar (12%) Apr – Jun (36%) Jul – Sep (29%) Oct – Dec (23%)

¹Source: Vessel Trip Report (VTR) logbooks

²Source: Calculated in R using positions reported on VTR logbooks

Table S2. Gray seal satellite tag deployments, 2019 and 2020.

Animal ID	Year	Tag Model	Deploy Location	Sex	Mass (kg)	Total Length (cm)	Date last transmission	No. days animal transmitted	Total distance travelled (km)
177038	2019	SPLASH10	Great Pt	F	27.6	105	3/25/2019	57	1529
195533	2020	SPOT293	Great Pt	F	41.8	110	6/15/2020	137	4902
177036	2019	SPLASH10	Muskeget	F	33.2	109	4/11/2019	75	1728
177508	2019	SPOT6	Muskeget	F	31.8	95	8/2/2019	183	6497
177512	2019	SPOT6	Muskeget	F	37.2	112	7/10/2019	162	4530
195535	2020	SPOT293	Muskeget	F	42.8	102	10/7/2020	258	5180
195526	2020	SPLASH10	Muskeget	F	42.8	119	6/16/2020	151	6151
195530	2020	SPOT293	Muskeget	F	37.4	110	6/18/2020	155	4631
195531	2020	SPOT293	Muskeget	F	39.0	104	6/16/2020	138	4414
194408	2020	SPOT6	Muskeget	F	34.8	102	5/27/2020	126	4301
194407	2020	SPOT6	Muskeget	F	46.0	107	5/27/2020	121	3852
194406	2020	SPOT6	Muskeget	F	34.0	104	1/31/2020	4	54
194405	2020	SPOT6	Muskeget	F	31.8	94	1/30/2020	6	121
195537	2020	SPOT293	Seal Isl	F	34.0	100	6/13/2020	131	5067
195532	2020	SPOT293	Seal Isl	F	24.4	93	9/19/2020	237	6641
142351	2020	SPLASH/ GPS	Seal Isl	F	47.8	111	5/27/2020	115	3738
177510	2019	SPOT6	Great Pt	M	49.2	123	9/1/2019	215	6357
177503	2020	SPOT6	Great Pt	M	35.4	96	5/2/2020	118	4357
177511	2019	SPOT6	Muskeget	M	49.8	123	8/6/2019	188	5990
177514	2019	SPOT6	Muskeget	M	32.0	101	4/20/2019	80	2459
177744	2019	SPLASH10	Muskeget	M	41.2	131	6/13/2019	134	5371
195527	2020	SPLASH10	Muskeget	M	56.8	115	9/27/2020	246	4347
195528	2020	SPLASH10	Muskeget	M	42.0	112	8/9/2020	200	5276
177039	2020	SPLASH10	Muskeget	M	36.4	105	6/20/2020	146	5868
195536	2020	SPOT293	Muskeget	M	40.0	108	6/16/2020	153	5038
195529	2020	SPOT293	Muskeget	M	40.2	107	2/22/2020	30	755
177037	2019	SPLASH10	Seal Isl	M	52.2	102	4/21/2019	72	2263
177513	2019	SPOT6	Seal Isl	M	39.4	116	6/29/2019	149	5338
195534	2020	SPOT293	Seal Isl	M	38.0	106	11/15/2020	287	11719
177507	2020	SPOT6	Seal Isl	M	33.0	107	4/12/2020	70	1912

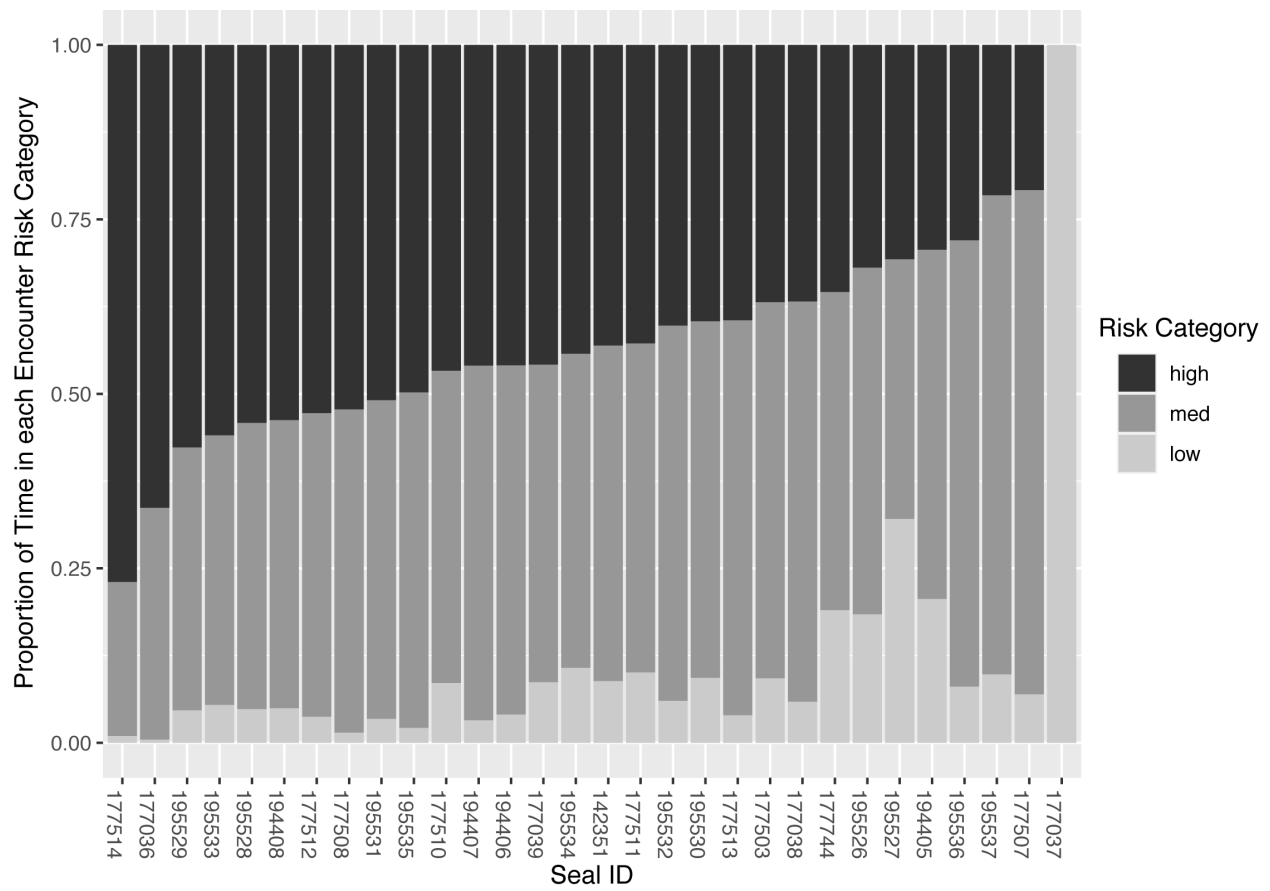


Fig. S1. The proportion of time each tagged seal spent in high, medium, and low encounter risk areas