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## Results for the 2024 VIMS Industry Cooperative Surveys of the Mid-Atlantic Bight and Georges Bank Scallop Resource Areas

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# Results for the 2024 VIMS Industry Cooperative Surveys of the Mid-Atlantic Bight and Georges Bank Scallop Resource Areas

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Submitted to:  
Sea Scallop Fishing Industry

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VIMS Marine Resource Report No. 2024-6



November 11, 2024

The Virginia Institute of Marine Science (VIMS) conducted high resolution sea scallop dredge surveys of the Mid-Atlantic Bight (MAB) and Georges Bank (GB) scallop resource areas during May–July 2024 (Figure 1). These surveys were funded by the Sea Scallop Research Set-Aside Program (RSA). Exploitable biomass for each survey is shown in Table 1 for each spatially explicit SAMS Area (Scallop Area Management Simulator). SAMS Areas represent management relevant spatial subunits of the resource and explicitly account for differences in recruitment, vital rates, and fishing effort in the forward projection of survey information. Maps of SAMS Areas are provided in Figures 2–3. At the time of the surveys, exploitable biomass estimated from the commercial dredge was 477 mt or 1 million pounds for the Elephant Trunk (ET) SAMS Area. In the NYB SAMS Area, the exploitable biomass estimate was 952 mt or 2 million pounds. In the CAII-Access SAMS Area, the exploitable biomass estimate was 7,549 mt or 17 million pounds. The exploitable biomass estimate for the CAII-Extension SAMS Area was 1,412 mt or 3 million pounds. In the Southern Flank SAMS Area, the exploitable biomass estimate was 1,877 mt or 4 million pounds.

The MAB survey was conducted aboard two commercial vessels: *F/V Carolina Capes II* and *F/V Italian Princess* during May 2024. Each vessel completed one survey leg and occupied a total of 450 stations throughout the MAB survey area, with 449 tows completed by the commercial dredge. The GB survey was conducted onboard the *F/V Queen of Peace* in July 2024 and a total of 230 stations were completed with both dredges. All vessels towed a NMFS 8-foot survey dredge and a 14-foot Turtle Deflector Dredge. While the comparison of catches between the survey dredge and the commercial dredge are informative on a relative basis, for the purposes of this report, we present only the catch data from the commercial dredges as this information is more applicable to the resource conditions that the industry is likely to encounter. Dredge data were obtained during 15-minute survey tows at 3.8-4.0 kts with a 3:1 scope to depth ratio.

Catch data in tabular form is shown in Table 2. The number of scallops caught in three size classes (<35 mm, 35–75 mm, and >75 mm) at each station are shown in Figures 4–5. Scallops that are 35 mm are approximately 1.5 inches and a 75 mm scallop is almost 3 inches. In Figures 6–7, the length frequency distributions from both dredges (survey and commercial) for the different surveys and SAMS Areas are shown.

Table 1: Exploitable biomass for scallops captured in the commercial dredges during the VIMS/Industry cooperative surveys by survey and SAMS Area.

Survey	SAMS Area	Exploitable Biomass (mt)	95% CI Lower Bound	95% CI Upper Bound
MAB	BI	107.44	59.87	155.01
	DMV	3.30	0.00	6.81
	ET	476.71	367.01	586.41
	HCS	516.13	412.76	619.50
	LI	2,888.59	2,570.25	3,206.93
	MAB_Nearshore	36.03	14.92	57.14
	NYB	951.99	757.54	1,146.44
	VIR	0.00	0.00	0.00
GB	CAII_Access	7,549.04	3,275.32	11,822.76
	CAII_Ext	1,411.65	850.85	1,972.45
	NLS_North	453.83	321.08	586.58
	NLS_South	64.09	40.14	88.04
	NLS_West	98.55	50.84	146.26
	SF	1,876.65	1,512.66	2,240.64

Table 2: Catch data for the commercial dredges from the VIMS/Industry cooperative surveys. Scallop density is scallops per  $m^{-2}$ . Nematode prevalence (percentage of scallops sampled at a given station infected with nematodes) is also provided for each station.

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401001	36	31.63	74	49.55	0	0.00	0.00	0.00	0
MAB	202401002	36	33.78	74	47.24	0	0.00	0.00	0.00	0
MAB	202401003	36	40.01	74	48.92	0	0.00	0.00	0.00	0
MAB	202401004	36	45.08	74	49.64	0	0.00	0.00	0.00	0
MAB	202401005	36	47.38	74	45.80	0	0.00	0.00	0.00	0
MAB	202401006	36	51.35	74	47.26	0	0.00	0.00	0.00	0
MAB	202401007	36	57.20	74	50.16	0	0.00	0.00	0.00	0
MAB	202401008	36	58.38	74	45.90	0	0.00	0.00	0.00	0
MAB	202401009	36	59.46	74	46.02	0	0.00	0.00	0.00	0
MAB	202401010	37	0.82	74	53.34	0	0.00	0.00	0.00	0
MAB	202401011	37	3.52	74	51.14	0	0.00	0.00	0.00	0
MAB	202401012	37	5.10	74	52.03	0	0.00	0.00	0.00	0
MAB	202401013	37	8.69	74	45.77	0	0.00	0.00	0.00	0
MAB	202401014	37	13.93	74	45.35	0	0.00	0.00	0.00	0
MAB	202401015	37	16.63	74	47.95	0	0.00	0.00	0.00	0
MAB	202401016	37	17.21	74	43.68	0	0.00	0.00	0.00	0
MAB	202401017	37	18.97	74	33.56	0	0.00	0.00	0.00	0
MAB	202401018	37	20.79	74	36.22	0	0.00	0.00	0.00	0
MAB	202401019	37	23.40	74	32.17	0	0.00	0.00	0.00	0
MAB	202401020	37	22.03	74	41.90	0	0.00	0.00	0.00	0
MAB	202401021	37	23.07	74	44.97	0	0.00	0.00	0.00	0
MAB	202401022	37	24.06	74	47.48	0	0.00	0.00	0.00	0
MAB	202401023	37	28.03	74	45.84	0	0.00	0.00	0.00	0
MAB	202401024	37	29.00	74	43.26	0	0.00	0.00	0.00	0
MAB	202401025	37	31.49	74	49.06	0	0.00	0.00	0.00	0
MAB	202401026	37	34.56	74	48.59	0	0.00	0.00	0.00	0
MAB	202401027	37	36.00	74	46.64	0	0.00	0.00	0.00	0
MAB	202401033	37	33.52	74	42.73	0	0.00	0.00	0.00	0
MAB	202401035	37	32.84	74	38.27	0	0.00	0.00	0.00	0
MAB	202401036	37	31.90	74	32.91	0	0.00	0.00	0.00	0
MAB	202401037	37	34.96	74	23.19	0	0.00	0.00	0.00	0
MAB	202401038	37	36.03	74	21.66	0	0.00	0.00	0.00	0
MAB	202401039	37	38.41	74	18.63	0	0.00	0.00	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401040	37	39.93	74	27.10	0	0.00	0.00	0.00	0
MAB	202401042	37	37.80	74	31.79	0	0.00	0.00	0.00	0
MAB	202401043	37	39.39	74	31.12	0	0.00	0.00	0.00	0
MAB	202401045	37	41.72	74	43.77	0	0.00	0.00	0.00	0
MAB	202401046	37	43.86	74	45.29	0	0.00	0.00	0.00	0
MAB	202401047	37	46.15	74	41.94	0	0.00	0.00	0.00	0
MAB	202401048	37	44.60	74	38.96	0	0.00	0.00	0.00	0
MAB	202401049	37	42.91	74	37.26	0	0.00	0.00	0.00	0
MAB	202401050	37	43.57	74	31.23	0	0.00	0.00	0.00	0
MAB	202401051	37	45.77	74	18.06	0	0.00	0.00	0.00	0
MAB	202401052	37	46.36	74	20.78	0	0.00	0.00	0.00	0
MAB	202401053	37	47.07	74	27.51	0	0.00	0.00	0.00	0
MAB	202401054	37	47.15	74	33.92	0	0.00	0.00	0.00	0
MAB	202401055	37	48.48	74	35.72	0	0.00	0.00	0.00	0
MAB	202401056	37	50.94	74	27.51	0	0.00	0.00	0.00	0
MAB	202401057	37	51.33	74	31.46	0	0.00	0.00	0.00	0
MAB	202401058	37	52.00	74	35.30	0	0.00	0.00	0.00	0
MAB	202401059	37	53.04	74	39.42	0	0.00	0.00	0.00	0
MAB	202401060	37	53.20	74	44.55	0	0.00	0.00	0.00	0
MAB	202401061	37	52.08	74	48.17	0	0.00	0.00	0.00	0
MAB	202401063	37	57.51	74	38.54	0	0.00	0.00	0.00	0
MAB	202401064	37	57.55	74	31.68	0	0.00	0.00	0.00	0
MAB	202401065	37	57.18	74	28.04	0	0.00	0.00	0.00	0
MAB	202401066	37	55.71	74	25.86	0	0.00	0.00	0.00	0
MAB	202401067	37	57.29	74	19.83	0	0.00	0.00	0.00	0
MAB	202401068	37	59.15	74	9.44	0	0.00	0.00	0.00	0
MAB	202401069	38	4.24	74	11.50	1	0.05	0.01	0.00	0
MAB	202401070	38	6.73	74	8.49	6	0.36	0.01	0.00	8
MAB	202401071	38	5.11	74	19.86	0	0.00	0.00	0.00	0
MAB	202401072	38	3.03	74	29.84	0	0.00	0.00	0.00	0
MAB	202401073	38	4.64	74	39.40	0	0.00	0.00	0.00	0
MAB	202401074	38	5.45	74	46.57	0	0.00	0.00	0.00	0
MAB	202401075	38	9.47	74	40.66	0	0.00	0.00	0.00	0
MAB	202401076	38	11.68	74	27.62	0	0.00	0.00	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401077	38	11.46	74	17.07	0	0.00	0.00	0.00	0
MAB	202401078	38	11.13	74	12.16	4	0.27	0.10	0.00	100
MAB	202401079	38	12.92	74	12.79	1	0.06	0.01	0.00	50
MAB	202401080	38	14.98	74	21.10	0	0.00	0.00	0.00	0
MAB	202401081	38	16.56	74	14.36	1	0.07	0.01	0.00	0
MAB	202401082	38	15.71	74	7.50	6	0.47	0.01	0.00	47
MAB	202401083	38	17.73	73	59.58	1	0.08	0.01	0.00	20
MAB	202401084	38	16.97	73	50.74	0	0.00	0.00	0.00	0
MAB	202401085	38	22.12	73	51.67	0	0.00	0.00	0.00	0
MAB	202401086	38	21.76	73	56.66	1	0.08	0.01	0.00	33
MAB	202401087	38	21.95	74	1.56	4	0.35	0.01	0.00	40
MAB	202401088	38	21.89	74	5.75	156	8.66	1.40	0.03	20
MAB	202401089	38	23.14	74	11.53	24	1.48	0.20	0.00	60
MAB	202401090	38	22.92	74	18.35	0	0.00	0.00	0.00	0
MAB	202401091	38	20.58	74	21.79	0	0.00	0.00	0.00	0
MAB	202401092	38	28.23	74	19.61	0	0.00	0.00	0.00	0
MAB	202401093	38	28.62	74	21.52	0	0.00	0.00	0.00	0
MAB	202401094	38	31.06	74	23.70	0	0.00	0.00	0.00	0
MAB	202401095	38	33.07	74	18.13	0	0.00	0.00	0.00	0
MAB	202401096	38	33.26	74	10.93	0	0.00	0.00	0.00	0
MAB	202401097	38	30.22	74	4.82	67	3.34	0.60	0.01	73
MAB	202401098	38	31.40	73	59.85	15	0.90	0.20	0.00	60
MAB	202401099	38	29.64	73	56.37	19	1.07	0.20	0.00	80
MAB	202401100	38	29.46	73	53.31	49	2.30	0.50	0.01	93
MAB	202401101	38	25.56	73	52.97	49	2.33	0.45	0.01	47
MAB	202401102	38	24.51	73	46.69	0	0.00	0.00	0.00	0
MAB	202401103	38	26.95	73	42.54	4	0.21	0.10	0.00	47
MAB	202401104	38	30.02	73	47.41	71	3.22	0.80	0.01	67
MAB	202401105	38	30.56	73	37.21	1	0.03	0.01	0.00	40
MAB	202401106	38	31.26	73	31.83	0	0.00	0.00	0.00	0
MAB	202401107	38	34.50	73	37.50	33	1.89	0.30	0.01	33
MAB	202401108	38	34.60	73	42.23	115	6.77	1.00	0.02	20
MAB	202401109	38	34.96	73	45.61	56	3.50	0.50	0.01	33
MAB	202401110	38	38.02	73	44.49	5	0.22	0.01	0.00	33

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401111	38	38.38	73	36.08	59	3.47	0.50	0.01	60
MAB	202401112	38	36.62	73	31.50	19	1.04	0.10	0.00	67
MAB	202401113	38	39.04	73	33.72	58	3.45	0.60	0.01	27
MAB	202401114	38	41.05	73	28.26	77	4.16	0.70	0.02	53
MAB	202401115	38	39.39	73	24.84	1	0.03	0.01	0.00	50
MAB	202401116	38	42.93	73	18.63	1	0.03	0.01	0.00	33
MAB	202401118	38	44.32	73	11.63	0	0.00	0.00	0.00	0
MAB	202401119	38	45.75	73	21.65	3	0.17	0.01	0.00	71
MAB	202401120	38	44.44	73	24.61	97	6.30	1.20	0.02	67
MAB	202401121	38	44.40	73	30.37	6	0.33	0.01	0.00	55
MAB	202401122	38	46.01	73	34.23	24	1.29	0.20	0.00	73
MAB	202401123	38	45.75	73	38.57	15	0.79	0.15	0.00	67
MAB	202401124	38	46.18	73	42.36	9	0.66	0.10	0.00	53
MAB	202401125	38	50.07	73	41.69	3	0.19	0.05	0.00	38
MAB	202401126	38	50.79	73	35.21	32	1.93	0.25	0.01	60
MAB	202401127	38	51.23	73	28.35	104	5.57	0.90	0.02	53
MAB	202401128	38	53.20	73	25.41	66	3.78	0.60	0.01	67
MAB	202401129	38	53.91	73	17.41	13	0.75	0.10	0.00	67
MAB	202401130	38	55.15	73	10.75	1	0.04	0.01	0.00	0
MAB	202401131	38	56.42	73	6.91	0	0.00	0.00	0.00	0
MAB	202401132	38	56.27	73	13.12	9	0.61	0.10	0.00	60
MAB	202401133	38	55.92	73	20.77	50	2.88	0.50	0.01	27
MAB	202401134	38	54.99	73	32.03	72	4.66	0.80	0.01	27
MAB	202401135	38	55.37	73	41.16	2	0.12	0.01	0.00	14
MAB	202401136	38	58.03	73	41.85	0	0.00	0.00	0.00	0
MAB	202401137	39	0.33	73	44.03	5	0.26	0.01	0.00	0
MAB	202401138	38	59.88	73	39.83	5	0.41	0.01	0.00	31
MAB	202401139	38	58.56	73	30.11	74	4.85	0.90	0.01	13
MAB	202401140	38	57.81	73	25.62	48	2.83	0.75	0.01	27
MAB	202401141	38	59.13	73	22.62	115	6.98	1.00	0.02	33
MAB	202401142	39	0.62	73	24.65	59	3.57	0.60	0.01	47
MAB	202401143	39	2.06	73	30.71	44	2.81	0.50	0.01	20
MAB	202401144	39	5.27	73	34.29	1	0.04	0.01	0.00	0
MAB	202401145	39	6.12	73	28.45	54	3.17	0.60	0.01	47



Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401146	39	4.76	73	23.73	40	2.35	0.40	0.01	53
MAB	202401147	39	4.65	73	16.54	3	0.20	0.05	0.00	36
MAB	202401148	39	5.09	73	12.85	1	0.05	0.01	0.00	23
MAB	202401149	39	2.89	73	6.83	0	0.00	0.00	0.00	0
MAB	202401150	39	1.23	72	58.28	0	0.00	0.00	0.00	0
MAB	202401151	39	6.75	72	50.62	0	0.00	0.00	0.00	0
MAB	202401152	39	8.14	73	1.52	3	0.15	0.01	0.00	27
MAB	202401153	39	7.75	73	15.83	18	1.20	0.15	0.00	40
MAB	202401154	39	9.60	73	18.56	22	1.69	0.20	0.00	33
MAB	202401155	39	10.95	73	9.89	15	0.87	0.20	0.00	47
MAB	202401156	39	10.88	73	5.45	15	1.02	0.10	0.00	54
MAB	202401157	39	11.00	72	59.46	4	0.25	0.01	0.00	18
MAB	202401158	39	12.50	72	54.33	0	0.00	0.00	0.00	0
MAB	202401159	39	13.65	73	5.43	12	0.76	0.10	0.00	27
MAB	202401160	39	15.18	73	17.94	25	1.71	0.20	0.00	20
MAB	202401161	39	19.03	73	14.44	10	0.75	0.01	0.00	21
MAB	202401162	39	17.91	73	9.30	6	0.48	0.01	0.00	9
MAB	202401163	39	17.65	73	3.96	32	2.05	0.30	0.01	40
MAB	202401164	39	17.11	72	54.12	0	0.00	0.00	0.00	0
MAB	202401165	39	21.21	72	42.57	0	0.00	0.00	0.00	0
MAB	202401166	39	21.61	72	50.47	1	0.04	0.01	0.00	71
MAB	202401167	39	20.89	72	55.71	2	0.08	0.02	0.00	27
MAB	202401168	39	22.21	73	4.52	26	1.59	0.30	0.00	40
MAB	202401169	39	23.29	73	8.21	12	0.92	0.20	0.00	53
MAB	202401170	39	23.42	72	59.51	17	1.07	0.20	0.00	67
MAB	202401171	39	24.60	72	55.51	25	1.45	0.15	0.00	60
MAB	202401172	39	24.79	72	49.86	3	0.17	0.01	0.00	33
MAB	202401173	39	26.32	72	39.46	0	0.00	0.00	0.00	0
MAB	202401174	39	27.91	72	33.49	0	0.00	0.00	0.00	0
MAB	202401175	39	27.43	72	43.98	3	0.16	0.05	0.00	36
MAB	202401176	39	28.27	72	47.06	81	4.59	0.80	0.02	47
MAB	202401177	39	27.40	72	51.16	39	2.48	0.50	0.01	33
MAB	202401178	39	26.45	73	0.77	31	1.85	0.50	0.01	21
MAB	202401179	39	28.29	73	3.53	32	1.97	0.30	0.01	7

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401180	39	29.14	73	7.11	2	0.12	0.01	0.00	0
MAB	202401181	39	30.82	73	5.85	9	0.69	0.10	0.00	7
MAB	202401182	39	32.60	73	4.86	1	0.08	0.01	0.00	0
MAB	202401183	39	32.96	73	1.94	38	2.45	0.50	0.01	40
MAB	202401184	39	30.54	72	56.48	92	7.28	1.10	0.02	40
MAB	202401185	39	31.83	72	50.07	61	4.09	0.80	0.01	47
MAB	202401186	39	31.09	72	44.91	78	4.48	0.80	0.02	20
MAB	202401187	39	30.56	72	40.65	2	0.10	0.01	0.00	17
MAB	202401188	39	32.45	72	41.14	6	0.28	0.01	0.00	13
MAB	202401189	39	36.24	72	41.62	4	0.18	0.01	0.00	33
MAB	202401190	39	36.32	72	42.94	18	0.98	0.10	0.00	27
MAB	202401191	39	35.25	72	51.03	47	2.77	0.50	0.01	31
MAB	202401192	39	34.30	72	54.01	94	6.32	0.95	0.02	47
MAB	202401193	39	34.27	72	57.86	134	8.60	1.30	0.03	27
MAB	202401194	39	37.33	72	59.93	128	9.32	1.50	0.02	47
MAB	202401195	39	38.98	72	57.70	93	5.59	0.95	0.02	60
MAB	202401196	39	38.95	72	54.34	84	5.15	0.90	0.02	47
MAB	202401197	39	38.29	72	48.11	1	0.05	0.05	0.00	25
MAB	202401198	39	38.65	72	45.54	21	1.27	0.25	0.00	60
MAB	202401199	39	41.51	72	39.91	0	0.00	0.00	0.00	0
MAB	202401200	39	41.29	72	47.75	5	0.34	0.10	0.00	83
MAB	202401201	39	41.98	72	53.57	135	8.11	1.40	0.03	67
MAB	202401202	39	41.94	73	0.37	26	2.02	0.25	0.00	73
MAB	202401203	39	39.95	73	2.92	38	3.14	0.50	0.01	47
MAB	202401204	39	35.86	73	3.49	36	2.72	0.45	0.01	47
MAB	202401205	39	33.63	73	5.86	5	0.39	0.10	0.00	17
MAB	202401206	39	33.49	73	8.88	1	0.05	0.01	0.00	0
MAB	202401207	39	35.48	73	17.63	0	0.00	0.00	0.00	0
MAB	202401208	39	36.01	73	30.48	15	1.11	0.10	0.00	13
MAB	202401209	39	30.40	73	24.04	2	0.16	0.01	0.00	0
MAB	202401210	39	25.77	73	15.38	1	0.01	0.01	0.00	0
MAB	202401211	39	25.05	73	21.60	3	0.17	0.01	0.00	0
MAB	202401212	39	22.81	73	26.96	0	0.00	0.00	0.00	0
MAB	202401213	39	20.75	73	31.31	0	0.00	0.00	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202401214	39	18.13	73	24.84	3	0.17	0.01	0.00	14
MAB	202401216	39	13.82	73	34.42	3	0.17	0.01	0.00	17
MAB	202401218	39	9.91	73	29.08	142	9.49	1.50	0.03	19
MAB	202401219	39	9.07	73	32.38	4	0.30	0.15	0.00	12
MAB	202401220	39	7.79	73	40.63	1	0.04	0.01	0.00	0
MAB	202401221	39	8.95	73	43.73	0	0.00	0.00	0.00	0
MAB	202401222	39	10.38	73	50.06	0	0.00	0.00	0.00	0
MAB	202401223	39	4.69	73	53.52	0	0.00	0.00	0.00	0
MAB	202401224	39	3.16	73	57.88	0	0.00	0.00	0.00	0
MAB	202401225	38	58.09	73	55.83	0	0.00	0.00	0.00	0
MAB	202401226	38	51.40	73	51.62	0	0.00	0.00	0.00	0
MAB	202401227	38	48.43	73	52.76	23	1.27	0.30	0.00	7
MAB	202401228	38	44.59	73	47.73	7	0.47	0.10	0.00	47
MAB	202401229	38	40.14	73	49.41	29	1.24	0.25	0.01	20
MAB	202401230	38	37.28	73	55.38	5	0.33	0.10	0.00	54
MAB	202401231	38	39.42	74	1.72	7	0.38	0.10	0.00	69
MAB	202401232	38	44.32	73	58.08	3	0.18	0.01	0.00	0
MAB	202401233	38	50.48	74	1.88	0	0.00	0.00	0.00	0
MAB	202401234	38	48.95	74	4.80	0	0.00	0.00	0.00	0
MAB	202401235	38	49.38	74	8.52	0	0.00	0.00	0.00	0
MAB	202401236	38	46.32	74	9.10	0	0.00	0.00	0.00	0
MAB	202401237	38	40.77	74	12.05	0	0.00	0.00	0.00	0
MAB	202402001	39	43.14	73	28.93	1	0.04	0.01	0.00	0
MAB	202402002	39	44.94	73	17.30	15	0.79	0.10	0.00	0
MAB	202402003	39	42.17	73	19.15	0	0.00	0.00	0.00	0
MAB	202402004	39	41.10	73	9.20	10	0.75	0.10	0.00	0
MAB	202402005	39	42.14	73	6.38	76	5.60	1.00	0.01	13
MAB	202402006	39	44.34	73	4.10	81	5.11	1.00	0.02	0
MAB	202402007	39	44.61	72	57.03	60	3.47	1.00	0.01	47
MAB	202402008	39	45.79	72	53.23	18	1.18	0.20	0.00	53
MAB	202402009	39	44.25	72	47.28	5	0.37	0.15	0.00	67
MAB	202402010	39	45.86	72	39.95	61	4.50	0.80	0.01	20
MAB	202402011	39	45.68	72	32.96	21	1.24	0.25	0.00	33
MAB	202402012	39	48.47	72	41.80	86	5.96	0.90	0.02	27

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402013	39	47.75	72	47.50	17	1.34	0.20	0.00	20
MAB	202402014	39	49.24	72	58.78	5	0.36	0.10	0.00	33
MAB	202402015	39	49.11	72	59.90	3	0.23	0.05	0.00	50
MAB	202402016	39	48.37	73	5.08	99	5.80	1.00	0.02	60
MAB	202402017	39	47.53	73	8.41	96	6.50	1.00	0.02	20
MAB	202402018	39	50.79	73	7.70	125	6.80	1.20	0.02	33
MAB	202402019	39	52.29	73	10.69	363	18.99	3.70	0.07	20
MAB	202402020	39	52.40	73	14.71	209	11.03	2.00	0.04	7
MAB	202402021	39	54.52	73	14.57	86	4.68	1.10	0.02	13
MAB	202402022	39	55.30	73	10.71	7	0.47	0.10	0.00	11
MAB	202402023	39	53.06	73	7.44	56	4.61	0.90	0.01	50
MAB	202402024	39	52.10	73	1.23	45	4.01	0.90	0.01	53
MAB	202402025	39	51.30	72	51.87	20	1.87	0.50	0.00	7
MAB	202402026	39	49.96	72	45.89	33	2.64	0.50	0.01	20
MAB	202402027	39	49.93	72	35.50	50	3.25	0.75	0.01	0
MAB	202402028	39	51.59	72	30.43	133	7.55	1.25	0.03	7
MAB	202402029	39	51.62	72	37.84	86	5.45	1.00	0.02	13
MAB	202402030	39	52.11	72	42.45	27	2.01	0.40	0.01	0
MAB	202402031	39	54.07	72	48.60	38	3.49	0.75	0.01	0
MAB	202402032	39	53.70	72	56.43	20	1.40	0.25	0.00	0
MAB	202402033	39	54.26	72	59.93	26	2.21	0.30	0.00	13
MAB	202402034	39	57.78	73	0.12	43	3.34	0.60	0.01	47
MAB	202402035	40	0.66	72	57.29	25	1.66	0.20	0.00	13
MAB	202402036	39	58.07	72	53.27	40	2.76	0.40	0.01	33
MAB	202402037	39	58.18	72	50.00	55	3.82	0.70	0.01	27
MAB	202402038	39	57.05	72	45.50	41	2.85	0.40	0.01	33
MAB	202402039	39	54.47	72	36.02	72	4.72	0.80	0.01	27
MAB	202402040	39	55.72	72	25.60	5	0.41	0.10	0.00	38
MAB	202402041	39	57.89	72	30.38	60	3.94	0.80	0.01	40
MAB	202402042	39	58.32	72	40.51	31	2.24	0.40	0.01	47
MAB	202402043	39	59.90	72	44.14	58	4.00	0.70	0.01	20
MAB	202402044	40	2.46	72	47.95	70	4.96	0.80	0.01	7
MAB	202402045	40	4.81	72	44.81	63	4.70	0.80	0.01	14
MAB	202402046	40	9.18	72	44.36	42	3.20	0.75	0.01	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402047	40	7.30	72	39.45	62	4.84	1.00	0.01	0
MAB	202402048	40	4.71	72	35.22	23	1.60	0.25	0.00	13
MAB	202402049	40	2.84	72	28.06	18	1.43	0.25	0.00	13
MAB	202402050	40	2.30	72	23.64	20	1.36	0.10	0.00	13
MAB	202402051	40	4.48	72	21.66	19	1.32	0.25	0.00	7
MAB	202402052	40	7.45	72	18.34	1	0.05	0.10	0.00	0
MAB	202402053	40	6.17	72	9.03	0	0.00	0.00	0.00	0
MAB	202402054	40	4.26	72	6.37	0	0.00	0.00	0.00	0
MAB	202402055	40	9.22	72	3.15	8	0.40	0.01	0.00	8
MAB	202402056	40	11.74	72	1.36	0	0.00	0.00	0.00	0
MAB	202402057	40	11.82	72	6.89	3	0.19	0.01	0.00	0
MAB	202402058	40	9.66	72	11.90	1	0.04	0.01	0.00	0
MAB	202402059	40	10.61	72	19.48	6	0.43	0.10	0.00	14
MAB	202402060	40	11.70	72	23.69	2	0.11	0.05	0.00	22
MAB	202402061	40	12.64	72	27.55	29	2.76	0.50	0.01	27
MAB	202402062	40	11.19	72	31.32	23	2.11	0.30	0.00	27
MAB	202402063	40	11.42	72	34.99	15	1.44	0.30	0.00	20
MAB	202402064	40	11.82	72	39.16	6	0.53	0.10	0.00	27
MAB	202402065	40	13.18	72	45.12	2	0.23	0.05	0.00	25
MAB	202402066	40	13.65	72	49.67	49	3.24	0.65	0.01	13
MAB	202402067	40	17.26	72	52.46	96	5.74	0.90	0.02	0
MAB	202402068	40	16.65	72	47.69	52	2.72	0.60	0.01	7
MAB	202402069	40	18.12	72	39.94	100	6.63	1.00	0.02	13
MAB	202402070	40	16.12	72	33.53	121	8.41	1.25	0.02	7
MAB	202402071	40	15.09	72	24.34	103	8.85	1.25	0.02	7
MAB	202402072	40	15.54	72	19.64	83	6.42	1.00	0.02	0
MAB	202402073	40	16.96	72	13.24	92	6.48	1.00	0.02	0
MAB	202402074	40	16.57	72	9.49	136	8.51	1.50	0.03	0
MAB	202402075	40	15.78	72	2.73	87	5.20	1.00	0.02	0
MAB	202402076	40	14.52	72	0.79	19	1.14	0.20	0.00	0
MAB	202402077	40	17.50	71	55.26	1	0.06	0.01	0.00	0
MAB	202402078	40	18.36	71	50.53	3	0.17	0.01	0.00	0
MAB	202402079	40	22.25	71	47.55	1	0.05	0.01	0.00	0
MAB	202402080	40	22.56	71	51.32	0	0.00	0.00	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402081	40	21.46	71	56.34	8	0.67	0.10	0.00	0
MAB	202402082	40	20.89	72	0.67	31	2.14	0.50	0.01	0
MAB	202402083	40	22.13	72	5.06	66	4.96	0.90	0.01	7
MAB	202402084	40	22.92	72	9.60	22	1.94	0.30	0.00	0
MAB	202402085	40	21.79	72	12.90	5	0.46	0.01	0.00	0
MAB	202402086	40	19.98	72	18.51	154	10.58	1.50	0.03	0
MAB	202402087	40	18.70	72	22.70	100	7.78	1.10	0.02	0
MAB	202402088	40	19.17	72	26.53	120	7.95	1.10	0.02	20
MAB	202402089	40	18.81	72	30.74	89	5.53	1.00	0.02	7
MAB	202402090	40	20.41	72	36.45	131	8.09	1.20	0.03	13
MAB	202402091	40	20.44	72	42.92	151	8.77	1.50	0.03	20
MAB	202402092	40	20.76	72	48.03	65	3.66	0.70	0.01	20
MAB	202402093	40	23.32	72	43.04	234	12.90	2.10	0.05	7
MAB	202402094	40	24.30	72	36.70	133	8.11	1.25	0.03	7
MAB	202402095	40	21.88	72	31.55	87	5.94	0.90	0.02	0
MAB	202402096	40	22.07	72	25.37	93	6.68	1.00	0.02	20
MAB	202402097	40	22.55	72	20.34	141	8.49	1.30	0.03	13
MAB	202402098	40	24.64	72	21.99	63	4.72	0.75	0.01	13
MAB	202402099	40	25.54	72	27.29	86	5.95	0.90	0.02	7
MAB	202402100	40	28.85	72	33.61	41	3.08	0.40	0.01	0
MAB	202402101	40	31.73	72	29.98	16	1.16	0.15	0.00	0
MAB	202402102	40	29.76	72	23.86	11	0.77	0.10	0.00	0
MAB	202402103	40	30.78	72	20.32	5	0.47	0.10	0.00	0
MAB	202402104	40	28.84	72	15.57	14	1.24	0.10	0.00	0
MAB	202402105	40	28.37	72	12.32	3	0.23	0.01	0.00	0
MAB	202402106	40	26.48	72	2.81	115	7.67	1.50	0.02	0
MAB	202402107	40	25.91	71	55.23	6	0.43	0.01	0.00	0
MAB	202402108	40	29.64	71	46.24	1	0.07	0.01	0.00	0
MAB	202402109	40	29.87	71	56.59	24	1.67	0.10	0.00	0
MAB	202402110	40	30.10	72	3.03	40	2.82	0.50	0.01	0
MAB	202402111	40	31.48	72	12.56	11	1.02	0.10	0.00	0
MAB	202402112	40	33.89	72	20.62	18	1.44	0.20	0.00	0
MAB	202402113	40	36.30	72	16.95	48	4.03	0.75	0.01	0
MAB	202402114	40	34.46	72	8.75	10	0.95	0.15	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402115	40	34.27	72	0.64	95	7.05	1.10	0.02	0
MAB	202402116	40	33.29	71	53.38	17	1.18	0.25	0.00	7
MAB	202402117	40	34.82	71	49.47	6	0.47	0.10	0.00	0
MAB	202402118	40	33.61	71	41.97	2	0.11	0.05	0.00	0
MAB	202402119	40	36.35	71	35.52	3	0.15	0.05	0.00	0
MAB	202402120	40	37.46	71	41.51	0	0.00	0.00	0.00	0
MAB	202402121	40	39.81	71	47.71	53	3.85	0.65	0.01	0
MAB	202402122	40	38.30	71	54.59	205	13.41	1.80	0.04	0
MAB	202402123	40	37.35	72	1.08	61	4.87	0.75	0.01	7
MAB	202402124	40	37.52	72	9.55	1	0.10	0.01	0.00	33
MAB	202402125	40	40.49	72	14.53	0	0.00	0.00	0.00	0
MAB	202402126	40	42.56	72	10.06	3	0.26	0.10	0.00	0
MAB	202402127	40	39.68	72	3.97	72	5.89	1.00	0.01	0
MAB	202402128	40	41.68	71	57.92	158	11.22	1.90	0.03	0
MAB	202402129	40	44.32	71	58.09	34	2.42	0.50	0.01	0
MAB	202402130	40	45.28	72	3.93	7	0.46	0.01	0.00	0
MAB	202402131	40	48.49	71	59.59	1	0.05	0.01	0.00	0
MAB	202402132	40	44.87	71	53.74	13	0.93	0.10	0.00	0
MAB	202402133	40	43.39	71	46.74	89	6.61	1.10	0.02	0
MAB	202402134	40	41.41	71	43.75	40	2.80	0.50	0.01	0
MAB	202402135	40	43.18	71	39.79	2	0.11	0.01	0.00	0
MAB	202402136	40	49.29	71	41.74	2	0.13	0.01	0.00	0
MAB	202402137	40	47.90	71	44.20	124	10.38	1.50	0.02	0
MAB	202402138	40	47.27	71	47.26	41	2.75	0.50	0.01	0
MAB	202402139	40	49.79	71	48.96	9	0.58	0.01	0.00	0
MAB	202402140	40	52.02	71	51.20	2	0.14	0.05	0.00	0
MAB	202402141	40	53.35	71	46.71	20	1.42	0.20	0.00	0
MAB	202402142	40	53.68	71	37.32	55	3.33	0.50	0.01	0
MAB	202402143	40	54.34	71	34.42	5	0.33	0.10	0.00	0
MAB	202402144	40	57.96	71	29.33	8	0.53	0.15	0.00	0
MAB	202402145	40	57.06	71	25.13	28	2.10	0.30	0.01	0
MAB	202402146	40	56.64	71	19.95	75	5.38	0.80	0.01	0
MAB	202402148	41	1.78	71	24.39	7	0.63	0.10	0.00	0
MAB	202402150	41	3.99	71	41.09	2	0.15	0.05	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402151	41	0.41	71	39.89	1	0.10	0.01	0.00	0
MAB	202402152	40	57.69	71	41.33	58	3.45	0.60	0.01	0
MAB	202402153	41	0.01	71	44.11	3	0.23	0.05	0.00	0
MAB	202402154	40	54.48	71	55.61	0	0.00	0.00	0.00	0
MAB	202402155	40	53.23	72	2.90	0	0.00	0.00	0.00	0
MAB	202402156	40	50.75	72	7.71	1	0.03	0.01	0.00	0
MAB	202402157	40	47.25	72	11.08	0	0.00	0.00	0.00	0
MAB	202402158	40	42.63	72	21.34	0	0.00	0.00	0.00	0
MAB	202402159	40	40.44	72	32.45	0	0.00	0.00	0.00	0
MAB	202402160	40	36.81	72	30.68	0	0.00	0.00	0.00	0
MAB	202402161	40	36.11	72	38.08	0	0.00	0.00	0.00	0
MAB	202402162	40	36.09	72	48.14	0	0.00	0.00	0.00	0
MAB	202402163	40	34.24	72	53.15	0	0.00	0.00	0.00	0
MAB	202402164	40	32.66	72	46.00	0	0.00	0.00	0.00	0
MAB	202402165	40	29.70	72	40.93	3	0.26	0.10	0.00	0
MAB	202402166	40	26.28	72	45.95	12	0.97	0.20	0.00	0
MAB	202402167	40	24.86	72	51.47	40	2.80	0.50	0.01	13
MAB	202402168	40	26.68	72	54.78	4	0.23	0.10	0.00	0
MAB	202402169	40	30.54	72	54.87	2	0.18	0.05	0.00	0
MAB	202402170	40	28.33	72	58.41	0	0.00	0.00	0.00	0
MAB	202402171	40	27.12	73	5.07	0	0.00	0.00	0.00	0
MAB	202402172	40	25.68	73	19.68	1	0.03	0.01	0.00	0
MAB	202402173	40	24.50	73	11.10	0	0.00	0.00	0.00	0
MAB	202402174	40	23.55	73	3.91	0	0.00	0.00	0.00	0
MAB	202402175	40	23.31	72	58.40	4	0.29	0.10	0.00	0
MAB	202402176	40	20.77	72	54.77	70	4.67	0.80	0.01	0
MAB	202402177	40	19.13	73	1.79	4	0.26	0.10	0.00	0
MAB	202402178	40	20.02	73	8.49	1	0.08	0.01	0.00	0
MAB	202402179	40	18.33	73	16.47	1	0.13	0.01	0.00	0
MAB	202402180	40	20.58	73	21.49	0	0.00	0.00	0.00	0
MAB	202402181	40	16.82	73	24.39	0	0.00	0.00	0.00	0
MAB	202402182	40	14.64	73	15.42	0	0.00	0.00	0.00	0
MAB	202402183	40	14.49	73	6.40	10	0.80	0.10	0.00	0
MAB	202402184	40	15.16	73	0.31	23	1.71	0.25	0.00	0



Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402185	40	11.26	72	54.55	20	1.51	0.25	0.00	0
MAB	202402186	40	9.80	72	51.86	24	1.84	0.25	0.00	0
MAB	202402187	40	6.10	72	52.33	28	2.08	0.25	0.01	0
MAB	202402188	40	5.40	72	58.26	38	2.94	0.50	0.01	0
MAB	202402189	40	8.36	72	58.61	24	1.96	0.30	0.00	0
MAB	202402190	40	8.67	73	8.54	13	0.74	0.20	0.00	0
MAB	202402191	40	10.28	73	18.34	0	0.00	0.00	0.00	0
MAB	202402192	40	13.44	73	27.04	0	0.00	0.00	0.00	0
MAB	202402193	40	14.94	73	40.92	0	0.00	0.00	0.00	0
MAB	202402194	40	15.91	73	44.65	0	0.00	0.00	0.00	0
MAB	202402195	40	13.21	73	46.41	0	0.00	0.00	0.00	0
MAB	202402196	40	12.37	73	38.87	0	0.00	0.00	0.00	0
MAB	202402197	40	12.05	73	34.50	0	0.00	0.00	0.00	0
MAB	202402198	40	6.27	73	27.68	0	0.00	0.00	0.00	0
MAB	202402199	40	5.62	73	16.86	6	0.43	0.10	0.00	0
MAB	202402200	40	5.09	73	6.24	5	0.28	0.10	0.00	0
MAB	202402201	40	2.15	73	4.68	13	1.13	0.10	0.00	7
MAB	202402202	40	1.35	73	8.04	13	1.17	0.10	0.00	0
MAB	202402203	39	59.74	73	10.89	0	0.00	0.00	0.00	0
MAB	202402204	39	58.31	73	13.01	1	0.10	0.01	0.00	0
MAB	202402205	39	59.91	73	16.05	222	15.44	2.75	0.04	7
MAB	202402206	40	2.31	73	19.78	4	0.34	0.01	0.00	0
MAB	202402207	40	2.24	73	24.07	0	0.00	0.00	0.00	0
MAB	202402208	40	5.83	73	30.08	0	0.00	0.00	0.00	0
MAB	202402209	40	7.32	73	32.26	1	0.09	0.01	0.00	0
MAB	202402210	40	8.81	73	34.45	0	0.00	0.00	0.00	0
MAB	202402211	40	10.22	73	37.66	0	0.00	0.00	0.00	0
MAB	202402212	40	11.19	73	41.06	0	0.00	0.00	0.00	0
MAB	202402213	40	7.77	73	39.30	0	0.00	0.00	0.00	0
MAB	202402214	40	1.97	73	42.90	0	0.00	0.00	0.00	0
MAB	202402215	39	56.78	73	39.67	0	0.00	0.00	0.00	0
MAB	202402216	39	59.86	73	35.53	0	0.00	0.00	0.00	0
MAB	202402217	40	3.11	73	33.70	0	0.00	0.00	0.00	0
MAB	202402218	40	0.83	73	29.18	1	0.06	0.01	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202402219	39	58.19	73	24.74	75	4.16	1.15	0.01	13
MAB	202402220	40	0.83	73	21.45	4	0.35	0.10	0.00	29
MAB	202402221	39	56.58	73	20.42	375	20.10	4.00	0.07	20
MAB	202402222	39	55.07	73	16.09	320	15.72	3.10	0.06	20
MAB	202402223	39	53.65	73	17.93	0	0.00	2.25	0.00	0
MAB	202402224	39	53.09	73	21.17	16	0.94	0.20	0.00	20
MAB	202402225	39	51.93	73	22.84	4	0.35	0.05	0.00	9
MAB	202402226	39	50.78	73	27.88	2	0.11	0.01	0.00	0
GB	202403001	40	37.55	69	57.46	0	0.00	0.00	0.00	0
GB	202403002	40	39.21	69	53.55	1	0.05	0.01	0.00	0
GB	202403003	40	40.70	69	48.00	1	0.07	0.01	0.00	0
GB	202403004	40	41.73	69	44.62	1	0.08	0.01	0.00	0
GB	202403005	40	39.07	69	43.62	0	0.00	0.00	0.00	0
GB	202403006	40	36.85	69	48.98	5	0.58	0.10	0.00	0
GB	202403007	40	36.43	69	53.63	2	0.17	0.05	0.00	0
GB	202403008	40	34.37	69	55.68	0	0.00	0.00	0.00	0
GB	202403009	40	32.34	69	51.82	1	0.04	0.01	0.00	0
GB	202403010	40	30.00	69	53.96	0	0.00	0.00	0.00	0
GB	202403011	40	29.34	69	50.21	1	0.04	0.01	0.00	0
GB	202403012	40	30.28	69	46.52	17	1.04	0.15	0.00	0
GB	202403013	40	27.07	69	41.78	19	1.84	0.20	0.00	0
GB	202403014	40	25.56	69	44.46	2	0.15	0.01	0.00	0
GB	202403015	40	24.32	69	40.66	2	0.16	0.01	0.00	0
GB	202403016	40	21.32	69	42.99	1	0.07	0.01	0.00	0
GB	202403017	40	19.85	69	39.71	0	0.00	0.00	0.00	0
GB	202403018	40	21.90	69	36.66	1	0.05	0.01	0.00	0
GB	202403019	40	24.21	69	38.00	76	4.84	0.50	0.01	0
GB	202403020	40	26.54	69	37.27	30	2.82	0.25	0.00	0
GB	202403021	40	27.26	69	34.44	6	0.58	0.01	0.00	0
GB	202403022	40	28.78	69	33.88	5	0.40	0.01	0.00	0
GB	202403023	40	32.11	69	33.64	12	1.08	0.02	0.00	0
GB	202403024	40	32.02	69	36.03	4	0.26	0.01	0.00	0
GB	202403025	40	31.75	69	41.67	95	6.84	0.80	0.02	0
GB	202403026	40	34.83	69	42.38	4	0.37	0.01	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
GB	202403027	40	35.47	69	38.91	3	0.32	0.01	0.00	0
GB	202403028	40	34.58	69	36.11	5	0.46	0.01	0.00	0
GB	202403029	40	40.23	69	39.34	0	0.00	0.00	0.00	0
GB	202403030	40	39.96	69	35.46	1	0.08	0.01	0.00	0
GB	202403031	40	37.28	69	30.66	0	0.00	0.00	0.00	0
GB	202403032	40	34.39	69	27.38	0	0.00	0.00	0.00	0
GB	202403033	40	34.75	69	30.15	0	0.00	0.00	0.00	0
GB	202403034	40	32.38	69	29.02	0	0.00	0.00	0.00	0
GB	202403035	40	30.08	69	29.37	0	0.01	0.01	0.00	0
GB	202403036	40	27.55	69	30.35	6	0.51	0.10	0.00	0
GB	202403037	40	24.80	69	32.99	10	0.89	0.10	0.00	0
GB	202403038	40	24.76	69	30.81	8	0.60	0.10	0.00	0
GB	202403039	40	21.98	69	31.43	12	0.73	0.15	0.00	0
GB	202403040	40	20.01	69	29.90	3	0.11	0.10	0.00	0
GB	202403041	40	20.00	69	25.83	0	0.00	0.00	0.00	0
GB	202403042	40	22.58	69	28.09	0	0.00	0.00	0.00	0
GB	202403043	40	24.37	69	26.59	0	0.00	0.00	0.00	0
GB	202403044	40	26.15	69	27.67	4	0.21	0.10	0.00	0
GB	202403045	40	26.85	69	26.32	6	0.29	0.10	0.00	0
GB	202403046	40	27.57	69	23.31	11	0.53	0.10	0.00	0
GB	202403047	40	29.11	69	26.68	3	0.20	0.01	0.00	0
GB	202403048	40	31.33	69	24.29	1	0.04	0.01	0.00	0
GB	202403049	40	32.10	69	21.10	3	0.20	0.01	0.00	0
GB	202403050	40	34.96	69	22.42	1	0.14	0.01	0.00	0
GB	202403051	40	36.82	69	23.50	1	0.11	0.01	0.00	0
GB	202403052	40	40.33	69	28.03	0	0.00	0.00	0.00	0
GB	202403053	40	40.09	69	19.88	0	0.00	0.00	0.00	0
GB	202403054	40	39.34	69	16.44	1	0.06	0.01	0.00	0
GB	202403055	40	37.70	69	14.31	5	0.34	0.10	0.00	0
GB	202403056	40	35.99	69	16.18	36	3.50	0.25	0.01	0
GB	202403057	40	33.88	69	18.68	1	0.12	0.01	0.00	0
GB	202403058	40	31.35	69	17.37	39	2.70	0.50	0.01	0
GB	202403059	40	28.08	69	18.47	12	0.66	0.20	0.00	0
GB	202403060	40	25.99	69	20.56	5	0.32	0.01	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
GB	202403061	40	23.76	69	18.63	2	0.11	0.01	0.00	0
GB	202403062	40	24.08	69	22.19	1	0.04	0.01	0.00	0
GB	202403063	40	23.03	69	24.67	0	0.01	0.01	0.00	0
GB	202403064	40	21.96	69	23.03	0	0.00	0.00	0.00	0
GB	202403065	40	20.95	69	19.19	0	0.00	0.00	0.00	0
GB	202403066	40	20.86	69	15.38	0	0.00	0.00	0.00	0
GB	202403067	40	20.13	69	12.49	0	0.00	0.00	0.00	0
GB	202403068	40	20.96	69	10.15	0	0.00	0.00	0.00	0
GB	202403069	40	20.33	69	6.99	0	0.00	0.00	0.00	0
GB	202403070	40	20.87	69	3.40	0	0.00	0.00	0.00	0
GB	202403071	40	20.59	69	0.61	0	0.00	0.00	0.00	0
GB	202403072	40	22.85	69	3.68	4	0.18	0.10	0.00	0
GB	202403073	40	24.45	69	3.29	11	0.43	0.15	0.00	0
GB	202403074	40	25.67	69	0.31	9	0.36	0.10	0.00	0
GB	202403075	40	24.97	69	4.66	4	0.16	0.10	0.00	0
GB	202403076	40	23.66	69	7.31	1	0.03	0.01	0.00	0
GB	202403077	40	23.88	69	9.47	0	0.00	0.00	0.00	0
GB	202403078	40	23.68	69	12.29	0	0.00	0.00	0.00	0
GB	202403079	40	24.05	69	15.24	2	0.01	0.10	0.00	0
GB	202403080	40	26.23	69	16.00	4	0.14	0.10	0.00	0
GB	202403081	40	27.73	69	14.29	3	0.04	0.10	0.00	0
GB	202403082	40	28.62	69	13.33	4	0.17	0.01	0.00	0
GB	202403083	40	27.55	69	9.20	7	0.02	0.30	0.00	0
GB	202403084	40	28.08	69	5.56	3	0.01	0.10	0.00	0
GB	202403085	40	27.65	69	2.30	2	0.06	0.01	0.00	0
GB	202403086	40	29.21	69	3.51	46	0.25	0.80	0.01	0
GB	202403087	40	30.19	69	0.27	101	3.76	0.70	0.02	0
GB	202403088	40	30.47	69	3.04	15	0.62	0.10	0.00	0
GB	202403089	40	31.06	69	5.80	2	0.05	0.01	0.00	0
GB	202403090	40	30.38	69	8.97	3	0.15	0.01	0.00	0
GB	202403091	40	31.76	69	11.33	70	3.57	0.60	0.01	0
GB	202403092	40	31.32	69	13.96	27	1.71	0.20	0.01	0
GB	202403093	40	33.44	69	15.24	0	0.00	0.00	0.00	0
GB	202403094	40	35.19	69	13.64	63	5.89	0.70	0.01	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
GB	202403095	40	34.30	69	10.37	201	15.64	1.60	0.04	0
GB	202403096	40	33.56	69	7.48	58	4.48	0.50	0.01	0
GB	202403098	40	34.07	68	59.88	14	1.23	0.20	0.00	0
GB	202403099	40	35.73	69	5.60	491	28.53	4.25	0.09	0
GB	202403100	40	36.17	69	10.27	73	5.50	0.90	0.01	0
GB	202403101	40	38.25	69	10.83	76	7.00	1.00	0.01	0
GB	202403102	40	38.14	69	6.71	114	8.53	1.10	0.02	0
GB	202403103	40	38.01	69	0.06	24	1.84	0.20	0.00	0
GB	202403104	40	39.60	69	4.00	29	2.20	0.30	0.01	0
GB	202403105	40	39.11	69	7.88	99	8.42	1.00	0.02	0
GB	202403106	40	39.84	69	12.80	64	5.11	0.60	0.01	0
GB	202403107	40	41.19	69	10.82	95	7.38	1.00	0.02	0
GB	202403108	40	42.42	69	7.88	64	5.94	0.80	0.01	0
GB	202403109	40	43.14	69	12.24	67	6.41	0.90	0.01	0
GB	202403110	40	43.29	69	16.36	5	0.33	0.10	0.00	0
GB	202403111	40	43.58	69	20.31	0	0.00	0.00	0.00	0
GB	202403112	40	46.26	69	16.20	6	0.64	0.10	0.00	0
GB	202403113	40	45.67	69	12.85	19	1.99	0.20	0.00	0
GB	202403114	40	45.09	69	8.11	38	3.56	0.40	0.01	0
GB	202403115	40	46.59	69	9.39	303	21.22	3.00	0.05	0
GB	202403116	40	49.27	69	11.46	0	0.00	0.00	0.00	0
GB	202403117	40	49.90	69	6.05	215	14.88	2.00	0.03	0
GB	202403118	40	49.68	69	3.34	48	3.82	0.45	0.01	0
GB	202403119	40	47.25	69	1.91	22	1.80	0.10	0.00	0
GB	202403120	40	45.63	69	4.05	17	1.27	0.10	0.00	0
GB	202403121	40	43.25	69	0.82	29	2.93	0.20	0.01	0
GB	202403122	40	33.29	68	30.23	43	3.65	0.40	0.01	0
GB	202403123	40	38.36	68	27.61	86	8.36	1.30	0.02	0
GB	202403124	40	38.73	68	24.68	0	0.00	0.00	0.00	0
GB	202403125	40	36.16	68	18.59	62	4.26	0.70	0.01	0
GB	202403126	40	33.71	68	9.86	10	0.66	0.20	0.00	0
GB	202403127	40	33.61	68	2.98	1	0.06	0.01	0.00	0
GB	202403128	40	40.59	68	9.22	12	0.95	0.15	0.00	0
GB	202403129	40	41.00	68	4.81	61	4.66	0.75	0.01	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
GB	202403130	40	47.36	68	8.41	0	0.00	0.00	0.00	0
GB	202403131	40	50.48	68	10.14	3	0.23	0.05	0.00	0
GB	202403132	40	49.42	68	5.39	3	0.23	0.05	0.00	0
GB	202403133	40	46.09	68	3.59	14	1.69	0.25	0.00	0
GB	202403134	40	42.53	68	0.12	79	6.31	0.90	0.01	0
GB	202403135	40	38.40	67	56.77	136	9.47	1.40	0.02	0
GB	202403136	40	34.35	67	54.44	238	13.52	2.20	0.04	0
GB	202403137	40	30.87	67	54.53	16	0.93	0.10	0.00	0
GB	202403138	40	35.12	67	49.41	18	1.05	0.10	0.00	0
GB	202403139	40	34.40	67	46.25	2	0.09	0.01	0.00	0
GB	202403140	40	34.06	67	34.90	2	0.08	0.01	0.00	0
GB	202403141	40	37.17	67	39.62	86	4.75	0.60	0.02	0
GB	202403142	40	39.15	67	41.69	58	4.24	0.40	0.01	0
GB	202403143	40	42.58	67	47.57	417	29.14	0.40	0.07	0
GB	202403145	40	48.80	67	55.28	51	6.54	0.80	0.01	0
GB	202403146	40	49.49	67	42.36	107	9.54	1.00	0.02	0
GB	202403147	40	44.82	67	39.31	53	3.70	0.50	0.01	0
GB	202403148	40	42.71	67	36.74	131	7.96	1.00	0.02	0
GB	202403149	40	38.32	67	30.07	41	1.87	0.40	0.01	0
GB	202403150	40	39.62	67	23.73	3	0.14	0.05	0.00	0
GB	202403151	40	42.40	67	29.83	178	10.06	1.50	0.03	0
GB	202403152	40	44.83	67	34.00	259	12.67	2.20	0.05	0
GB	202403153	40	49.84	67	34.11	77	4.24	0.80	0.01	0
GB	202403154	40	45.74	67	24.72	94	5.47	1.00	0.02	0
GB	202403155	40	40.39	67	18.00	18	1.05	0.20	0.00	0
GB	202403156	40	38.29	67	16.30	2	0.11	0.05	0.00	0
GB	202403157	40	44.71	67	15.69	1	0.07	0.05	0.00	0
GB	202403158	40	45.58	67	13.15	0	0.00	0.00	0.00	0
GB	202403159	40	50.52	67	20.69	100	5.64	1.00	0.02	0
GB	202403160	40	53.40	67	30.21	161	8.82	1.40	0.03	0
GB	202403161	40	57.19	67	39.35	51	5.07	0.80	0.01	0
GB	202403162	40	59.41	67	43.14	3	0.26	0.01	0.00	0
GB	202403163	41	0.97	67	36.14	11	1.18	0.10	0.00	0
GB	202403164	41	1.68	67	30.13	14	1.43	0.01	0.00	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
GB	202403165	40	59.90	67	24.04	87	7.20	1.00	0.01	0
GB	202403166	40	56.91	67	23.31	141	8.05	1.20	0.02	0
GB	202403167	40	57.07	67	18.63	375	22.72	3.20	0.06	0
GB	202403168	40	55.79	67	15.95	181	12.45	2.00	0.03	0
GB	202403169	40	55.74	67	9.73	497	30.57	4.50	0.09	0
GB	202403170	40	53.24	67	5.80	539	32.90	4.80	0.09	0
GB	202403171	40	49.81	67	5.71	114	7.64	1.20	0.02	0
GB	202403172	40	45.12	67	4.52	7	0.41	0.01	0.00	0
GB	202403173	40	49.39	67	0.79	9	0.62	0.01	0.00	0
GB	202403174	40	50.29	66	55.82	0	0.00	0.00	0.00	0
GB	202403175	40	47.95	66	50.85	0	0.00	0.00	0.00	0
GB	202403176	40	52.07	66	44.06	0	0.00	0.00	0.00	0
GB	202403177	40	52.62	66	49.99	2	0.13	0.05	0.00	0
GB	202403178	40	53.46	66	53.70	231	13.96	2.10	0.04	0
GB	202403179	40	56.61	66	58.26	186	13.74	1.80	0.03	0
GB	202403180	40	57.08	66	55.96	178	13.30	1.80	0.03	0
GB	202403181	40	56.78	66	53.05	332	21.25	2.80	0.06	0
GB	202403182	40	55.36	66	44.49	22	1.07	0.20	0.00	0
GB	202403183	40	57.68	66	45.06	146	6.24	1.10	0.03	0
GB	202403184	40	57.47	66	36.81	9	0.44	0.15	0.00	0
GB	202403185	41	0.33	66	30.48	1	0.03	0.01	0.00	0
GB	202403186	41	4.05	66	29.73	1	0.04	0.05	0.00	0
GB	202403187	41	2.73	66	33.43	159	10.37	1.40	0.03	0
GB	202403188	41	3.61	66	39.37	331	29.53	3.40	0.06	0
GB	202403189	41	3.35	66	45.08	153	14.31	1.60	0.03	0
GB	202403190	41	3.30	66	54.97	117	11.12	1.20	0.02	0
GB	202403191	41	5.29	67	1.84	93	9.47	1.00	0.02	0
GB	202403192	41	1.02	67	8.88	88	10.95	1.20	0.02	0
GB	202403193	41	0.66	67	15.46	104	8.98	1.00	0.02	0
GB	202403194	41	4.24	67	25.30	24	2.07	0.20	0.00	0
GB	202403195	41	8.36	67	22.62	3	0.30	0.01	0.00	0
GB	202403196	41	12.08	67	15.16	3	0.25	0.01	0.00	0
GB	202403197	41	10.87	67	6.75	25	2.26	0.01	0.00	0
GB	202403198	41	8.24	67	1.02	100	10.03	1.10	0.02	0

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
GB	202403199	41	7.00	66	53.71	73	7.45	1.00	0.01	0
GB	202403200	41	8.49	66	43.05	0	0.00	0.00	0.00	0
GB	202403201	41	8.14	66	37.44	310	22.18	3.00	0.05	0
GB	202403202	41	7.44	66	30.60	12	0.79	0.15	0.00	0
GB	202403203	41	10.71	66	27.05	120	9.15	1.25	0.02	0
GB	202403204	41	10.94	66	22.64	22	1.53	0.20	0.00	0
GB	202403205	41	15.33	66	29.03	960	66.52	8.80	0.16	0
GB	202403206	41	13.90	66	34.21	480	36.03	4.40	0.09	0
GB	202403207	41	11.42	66	41.86	93	8.39	1.00	0.02	0
GB	202403208	41	11.61	66	48.02	87	8.64	1.00	0.02	0
GB	202403209	41	9.99	66	54.74	100	9.65	1.10	0.02	0
GB	202403210	41	13.37	67	5.09	12	1.23	0.15	0.00	0
GB	202403211	41	16.02	67	2.60	2497	177.14	23.50	0.43	0
GB	202403212	41	16.26	66	51.16	41	4.00	0.45	0.01	0
GB	202403213	41	17.26	66	44.49	101	10.41	1.10	0.02	0
GB	202403214	41	15.07	66	41.47	75	8.13	1.00	0.01	0
GB	202403215	41	16.52	66	36.34	173	16.23	2.00	0.03	0
GB	202403217	41	21.63	66	29.96	186	14.22	2.00	0.03	0
GB	202403218	41	20.35	66	35.50	468	32.70	4.10	0.09	0
GB	202403219	41	20.00	66	39.76	80	7.30	0.80	0.02	0
GB	202403220	41	21.73	66	43.43	64	5.53	0.75	0.01	0
GB	202403221	41	21.77	66	49.20	31	2.57	0.30	0.01	0
GB	202403222	41	25.33	66	45.10	98	8.77	1.20	0.02	0
GB	202403223	41	25.59	66	41.52	85	7.57	1.00	0.02	0
GB	202403224	41	26.62	66	34.74	83	6.53	1.00	0.01	0
GB	202403225	41	29.10	66	39.36	75	8.19	1.10	0.01	0
GB	202403226	41	29.57	66	43.58	134	13.75	4.00	0.02	0
GB	202403227	41	28.59	66	52.41	8	0.77	0.10	0.00	0
GB	202403228	41	24.76	66	58.64	0	0.00	0.00	0.00	0
GB	202403229	41	22.65	67	1.18	0	0.00	0.00	0.00	0
GB	202403230	41	20.48	66	58.07	4017	242.44	63.00	0.70	0
GB	202403232	41	18.60	66	53.98	30	2.25	0.25	0.01	0
GB	202403233	41	19.21	67	2.10	9	0.70	0.10	0.00	0
GB	202403234	41	19.12	67	5.99	1	0.09	0.01	0.00	0



In addition to the catch data that informed our understanding of scallop abundance and biomass, we also assessed meat quality during each survey. This allowed us to determine the prevalence and intensity of a parasitic nematode observed in the scallop meat and monitor for other diseases that may impact meat quality and yield including the presence of shell blister.

Nematode infected scallops typically present with rust colored lesions on the exterior of the adductor muscle, often opposite the sweet meat. Nematode infected scallops were observed only during the MAB survey, with a typical number of nematodes observed per scallop ranging from 1-10. Only one scallop was found with more than 10 lesions. The spatial distribution of the nematode prevalence (percent of infected animals at a given station) by year for 2015-2024 is shown in Figure 8. Since 2016, nematode infected scallops have been detected in the Hudson Canyon (HCS) SAMS Area, although the distribution is patchy and prevalence is low (20 percent or less of scallops are infected). The ET has remained a consistent hot spot with a high proportion of infected scallops since 2019, while the New York Bight (NYB) hot spot has persisted from 2023. In 2024, all three of those SAMS Areas (ET, HCS, NYB) had a higher proportion of infected scallops relative to 2023. The number of infected scallops in the southern portion of the resource area has been consistently declining since 2018, though a few more appeared this year. This decline may be related to a decline in biomass in the southern portion of the resource. Very few infected scallops were observed in the MAB Nearshore, or the open areas off of LI and Block Island (BI). While overall trends have remained consistent, there is a concern that smaller size scallops are still showing signs of infection, and about continued northward spread of infections.

In addition to monitoring nematode infected scallops, we also recorded the presence and severity of shell blister disease (Figures 9–10). This disease can reduce yield and lower meat quality, and has typically been found in larger scallops in deeper water. Since 2021, there has been an increase in the number of scallops with shell blister disease observed in the MAB. The highest percentage of scallops with this disease in 2024 were documented in the NYB SAMS Area. Most areas saw a decrease in shell blister compared to 2023, except for HCS and the MAB Nearshore. On Georges Bank, the percentage of scallops with shell blister disease increased in the NLS-South SAMS Area in 2021 and 2022, but decreased in 2023 and 2024. On eastern Georges the percentage of scallops with shell blister has remained low since 2019, except for a slight increase in the CAII-Extension. Overall, shell blister has been observed less frequently throughout Georges Bank than in the MAB.

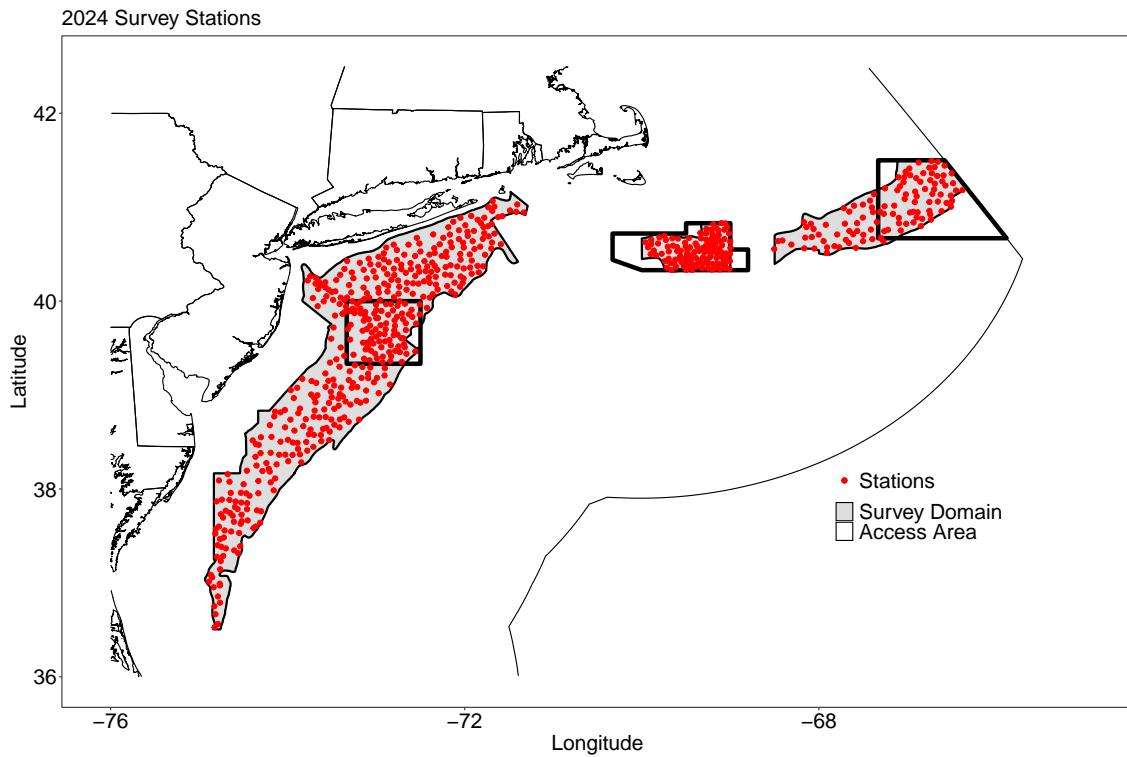


Figure 1: Survey domains with station locations for the VIMS/Industry cooperative surveys of the Mid-Atlantic Bight and Georges Bank sea scallop resource areas completed during May–July 2024.

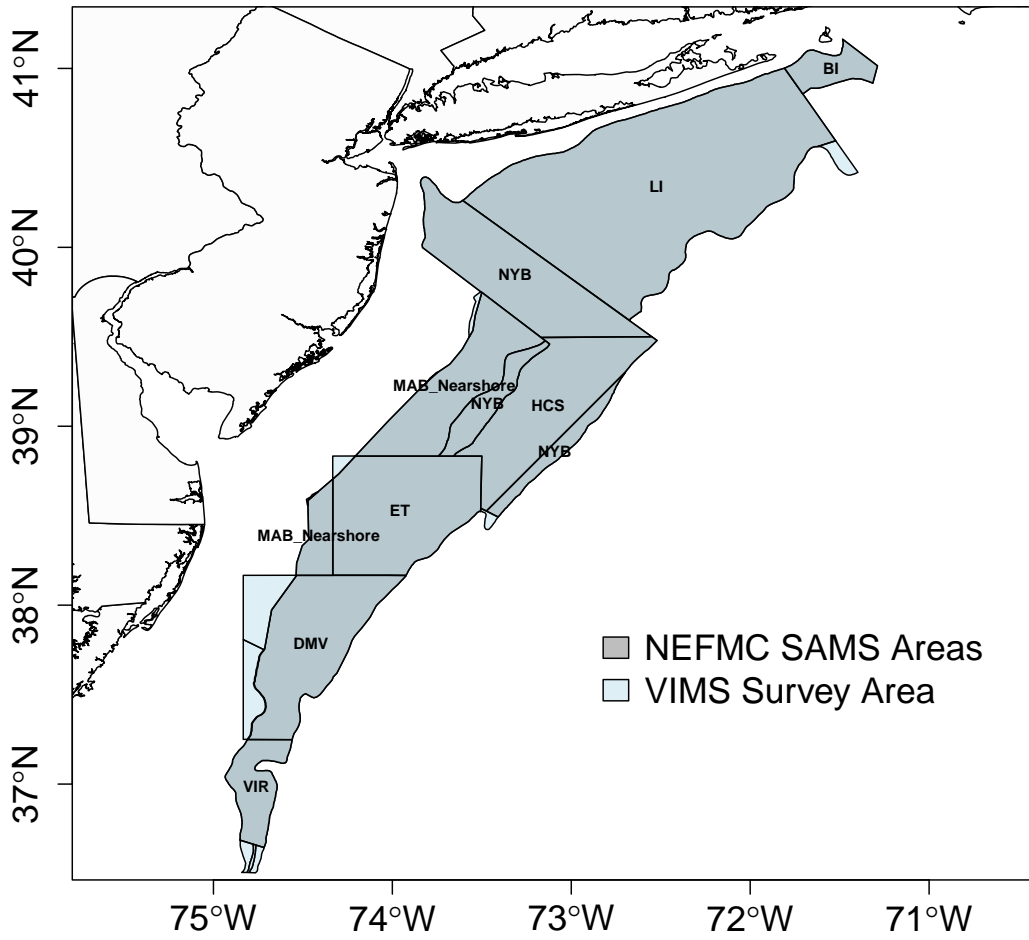


Figure 2: SAMS Areas used to calculate biomass estimates for the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource during May 2024.

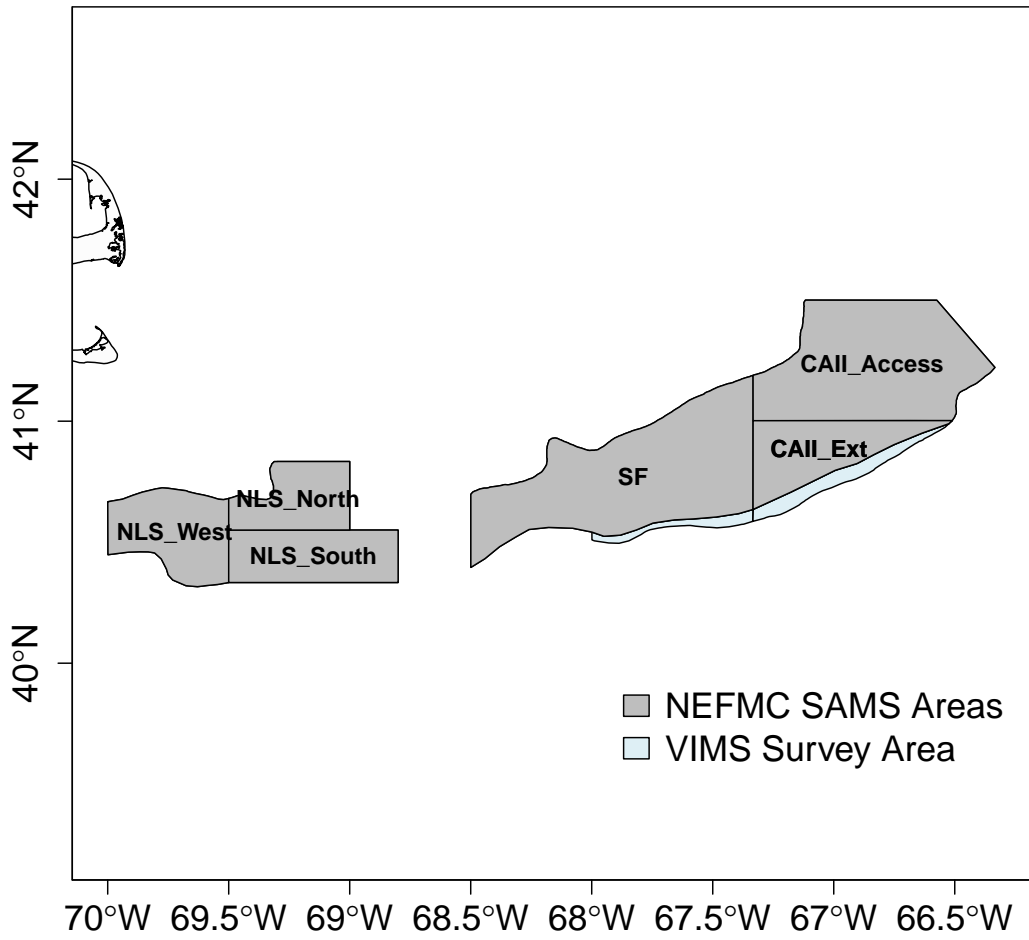


Figure 3: SAMS Areas used to calculate biomass estimates for the VIMS/Industry cooperative survey of the Georges Bank sea scallop resource during July 2024.

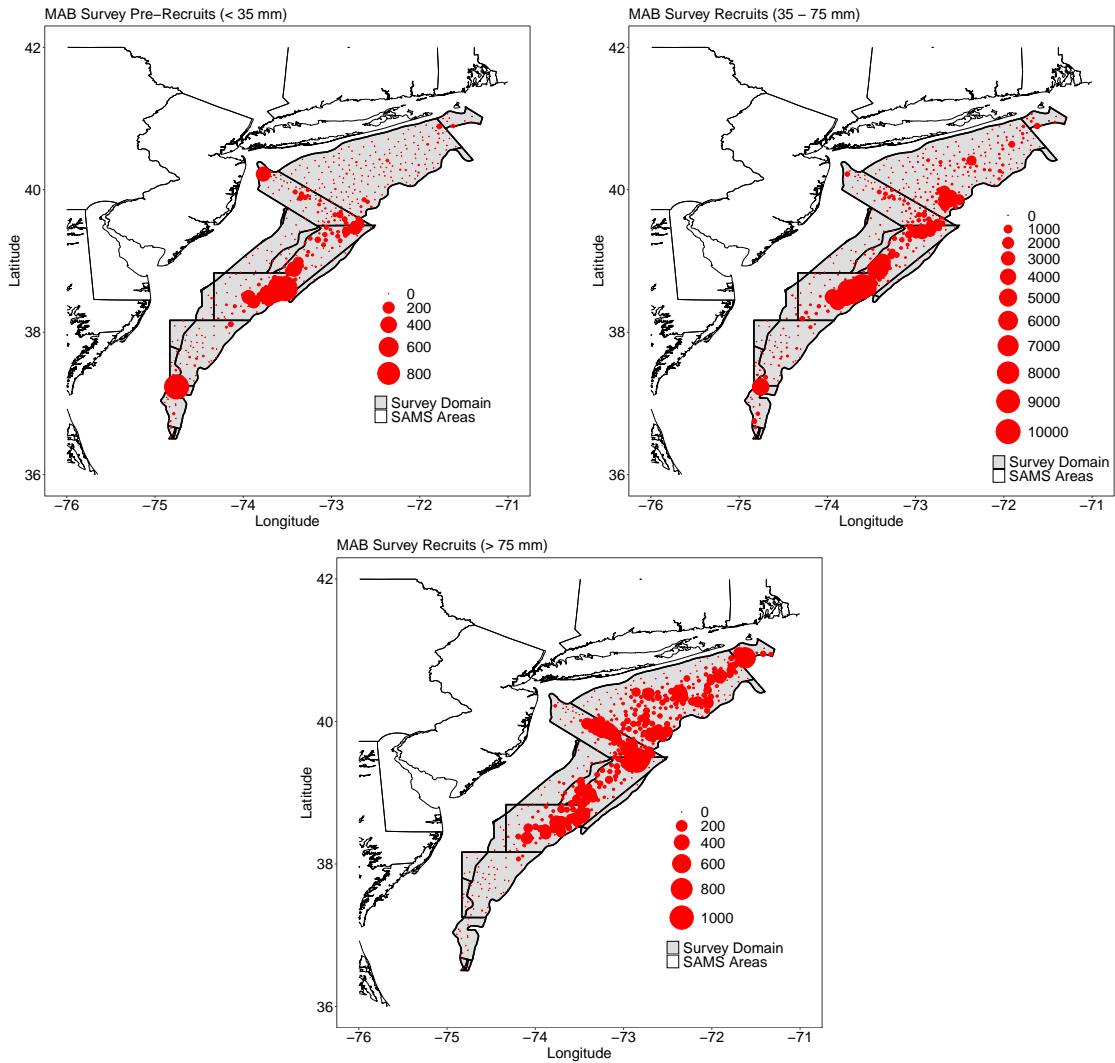


Figure 4: Number of scallops <35 mm, 35–75 mm, and >75 mm caught in the NMFS survey dredge during the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource during May 2024.

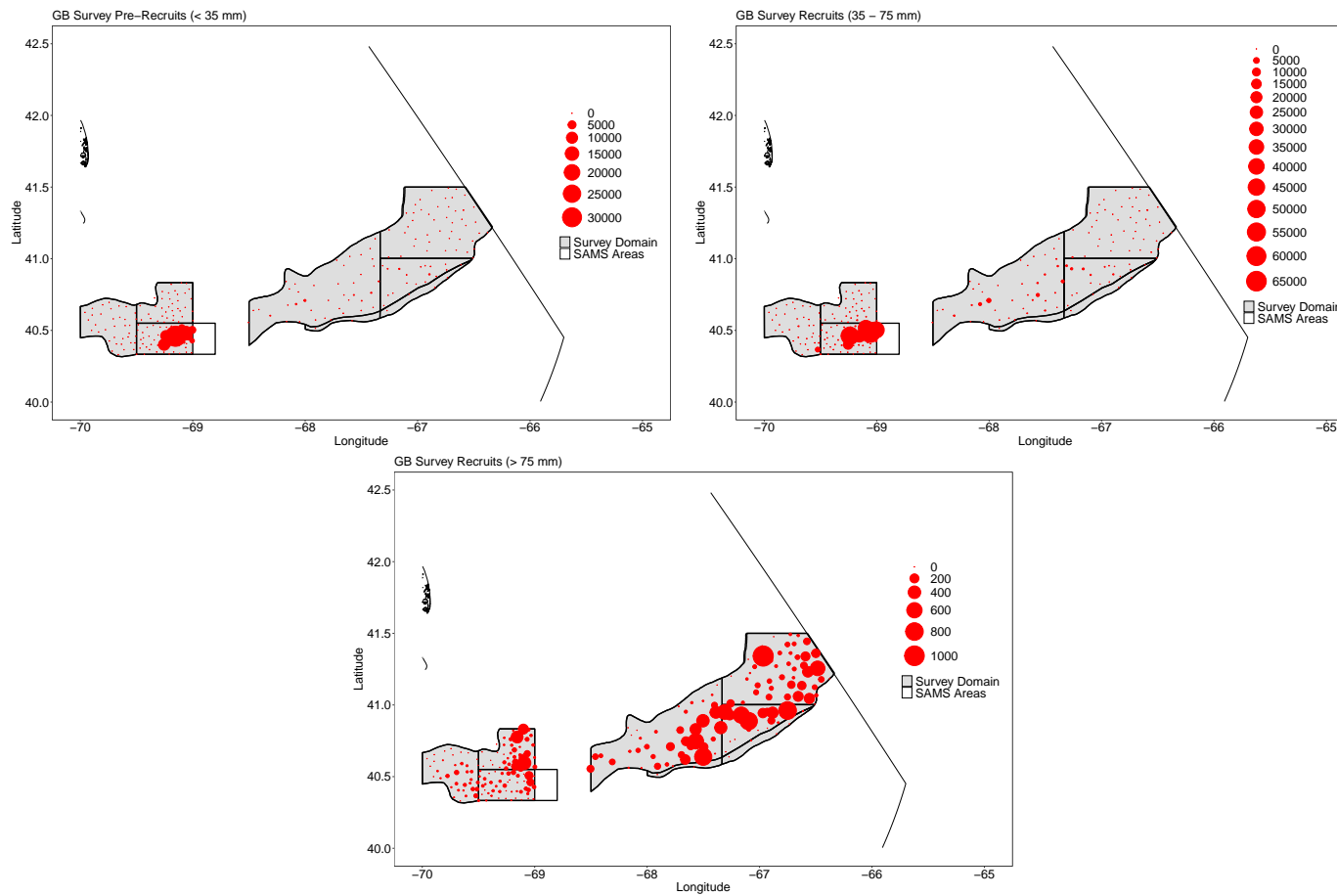


Figure 5: Number of scallops <35 mm, 35–75 mm, and >75 mm caught in the NMFS survey dredge during the VIMS/Industry cooperative survey of the Georges Bank sea scallop resource during July 2024.

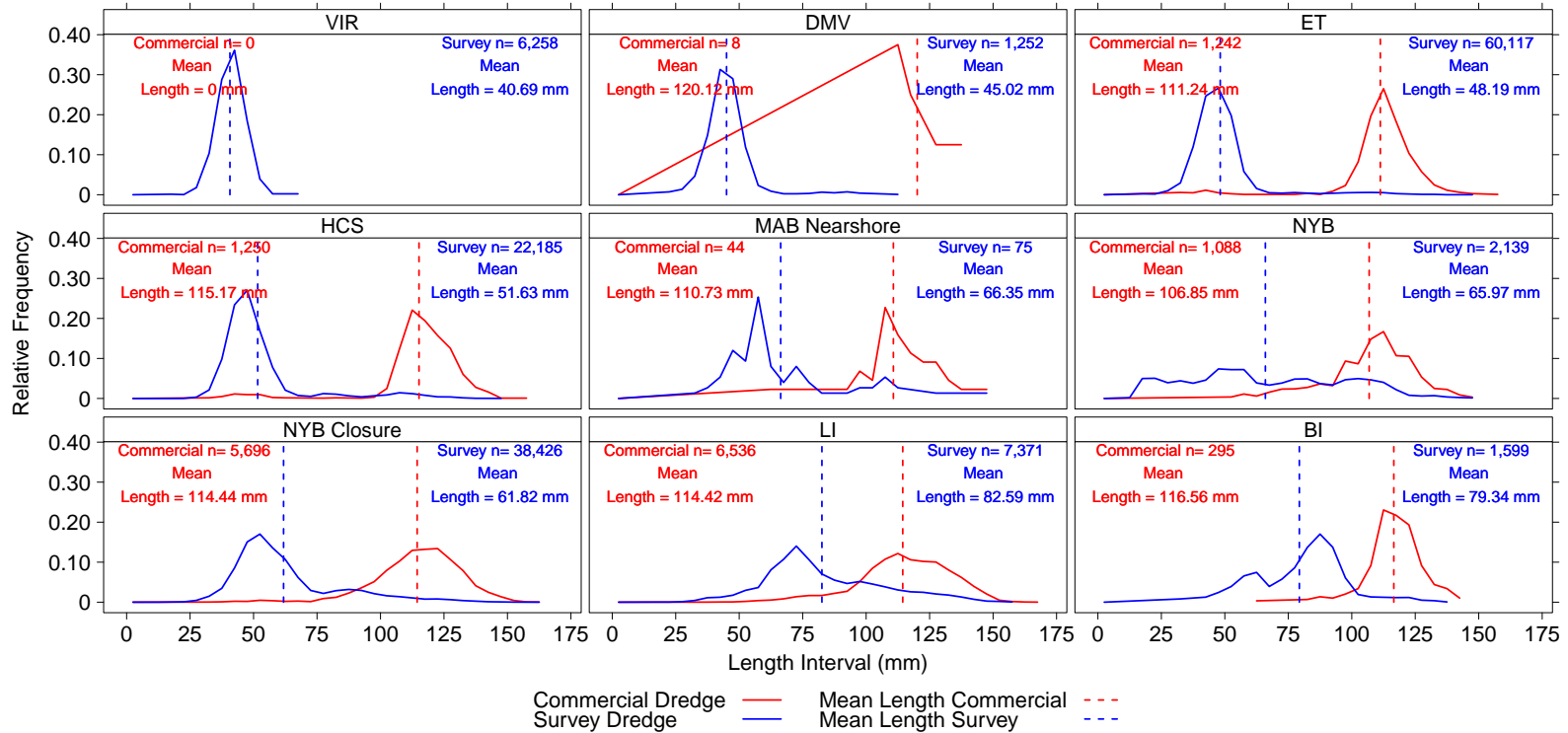


Figure 6: Scallop length frequency distributions generated from catch data obtained from both the survey and commercial dredges during the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource area in May 2024 by SAMS Area. Number of scallops (n) measured and mean length by gear are also included.

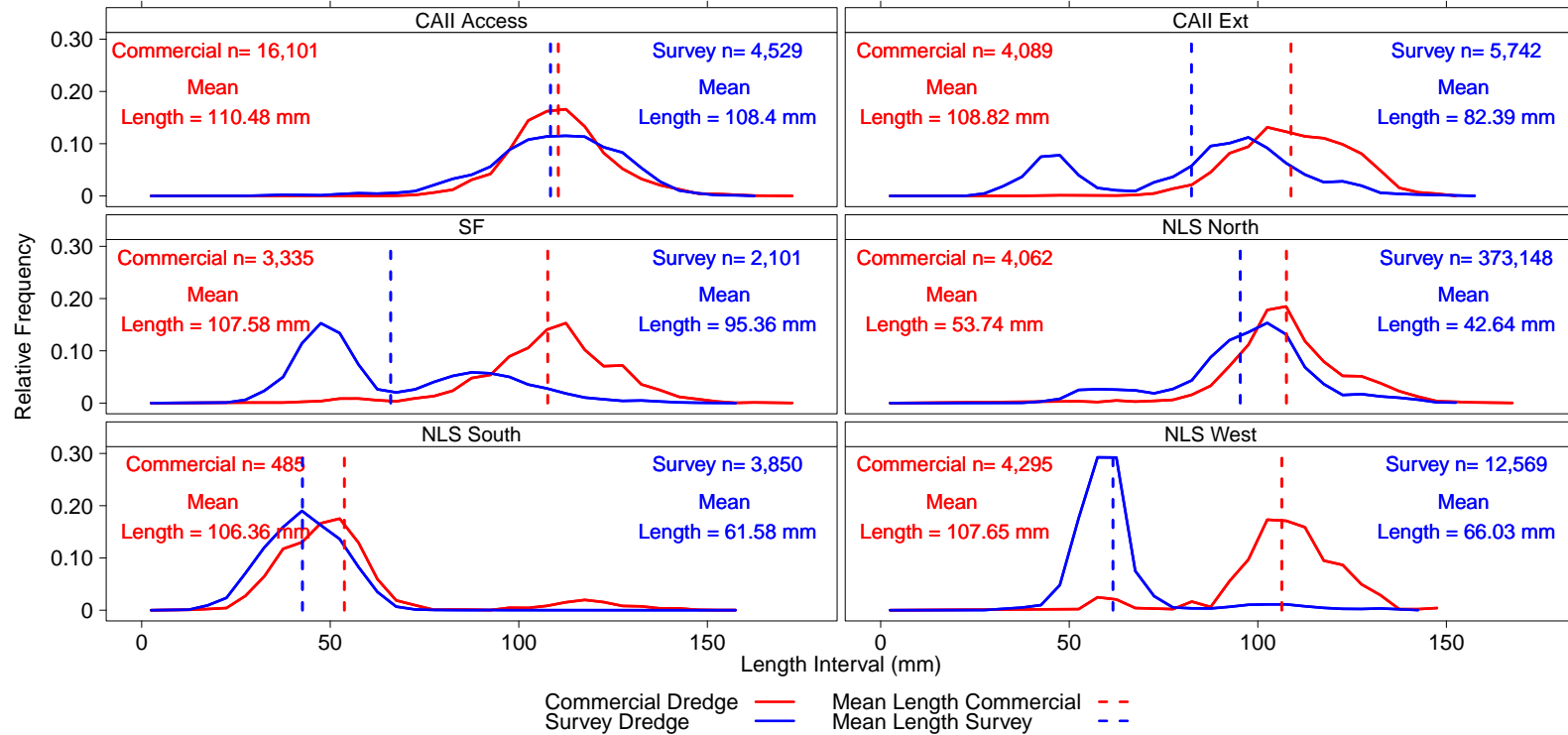


Figure 7: Scallop length frequency distributions generated from catch data obtained from both the survey and commercial dredges during the VIMS/Industry cooperative survey of portions of the Georges Bank sea scallop resource area in July 2024 by SAMS Area. Number of scallops (n) measured and mean length by gear are also included.



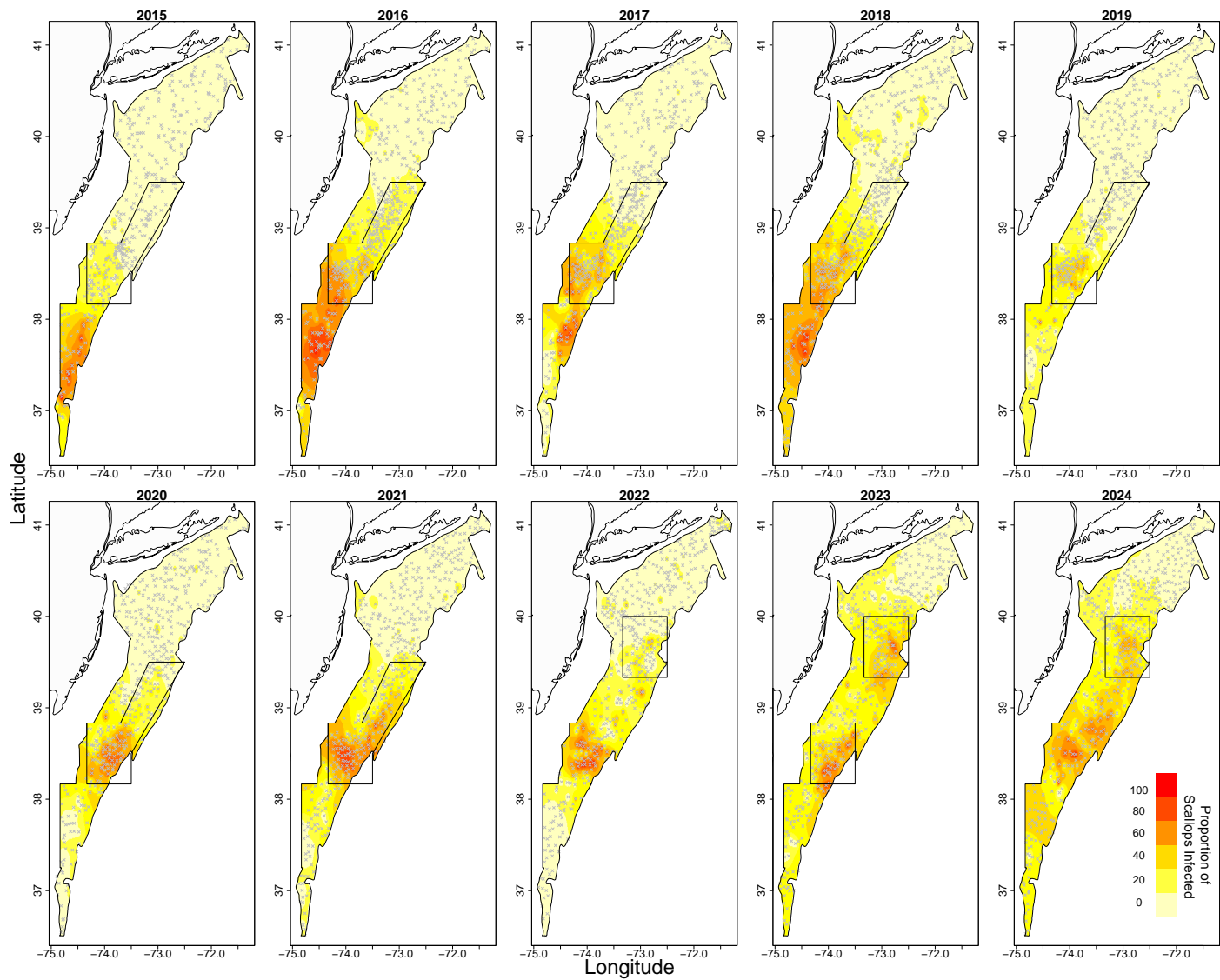
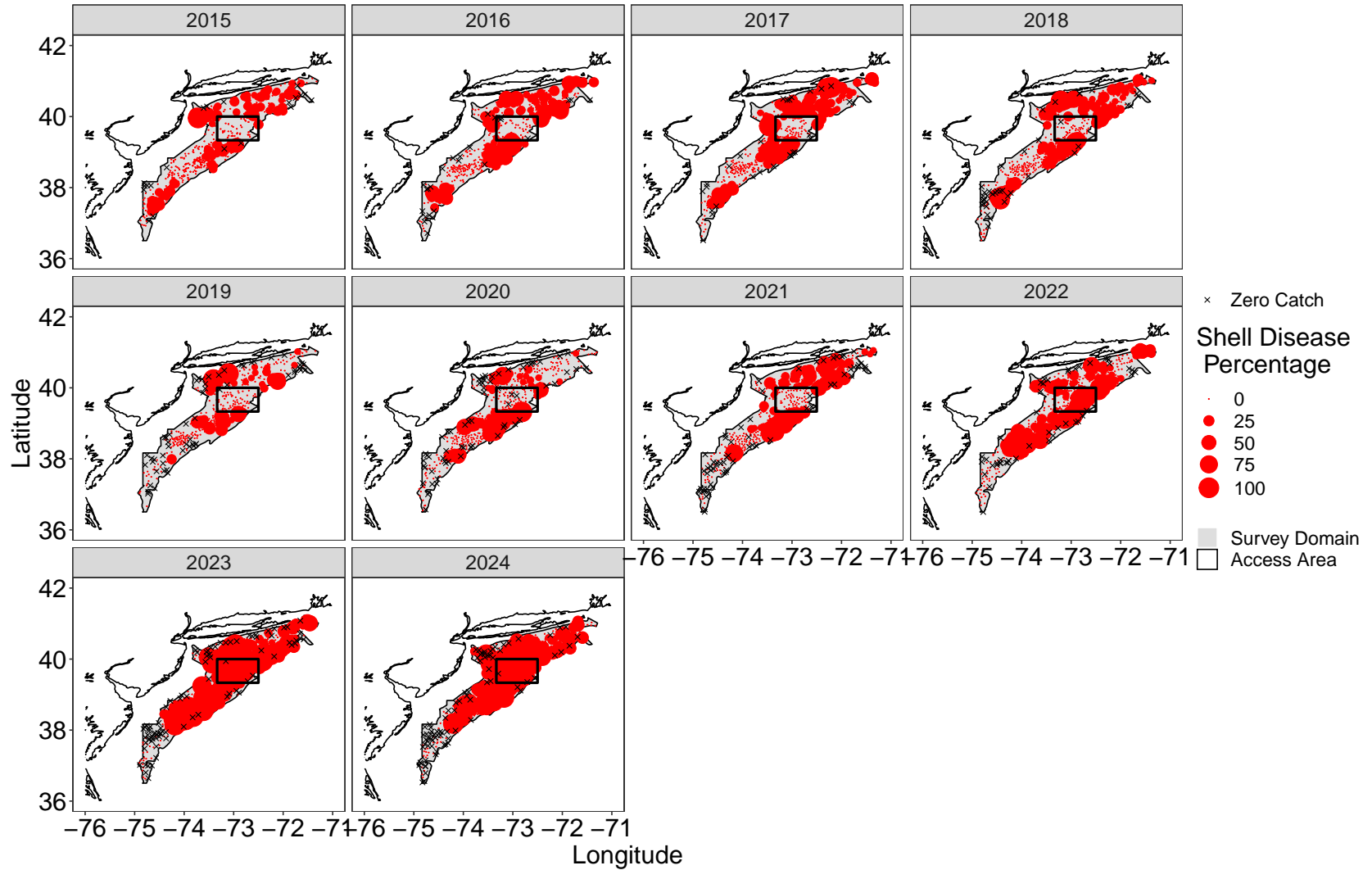


Figure 8: Proportion of scallops infected with nematodes for 2015-2024 in the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource area.

Percentage of Scallops with Shell Blister Disease MAB



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Figure 9: Proportion of scallops infected with shell blister disease for 2015-2024 in the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource area.

Percentage of Scallops with Shell Blister Disease GB

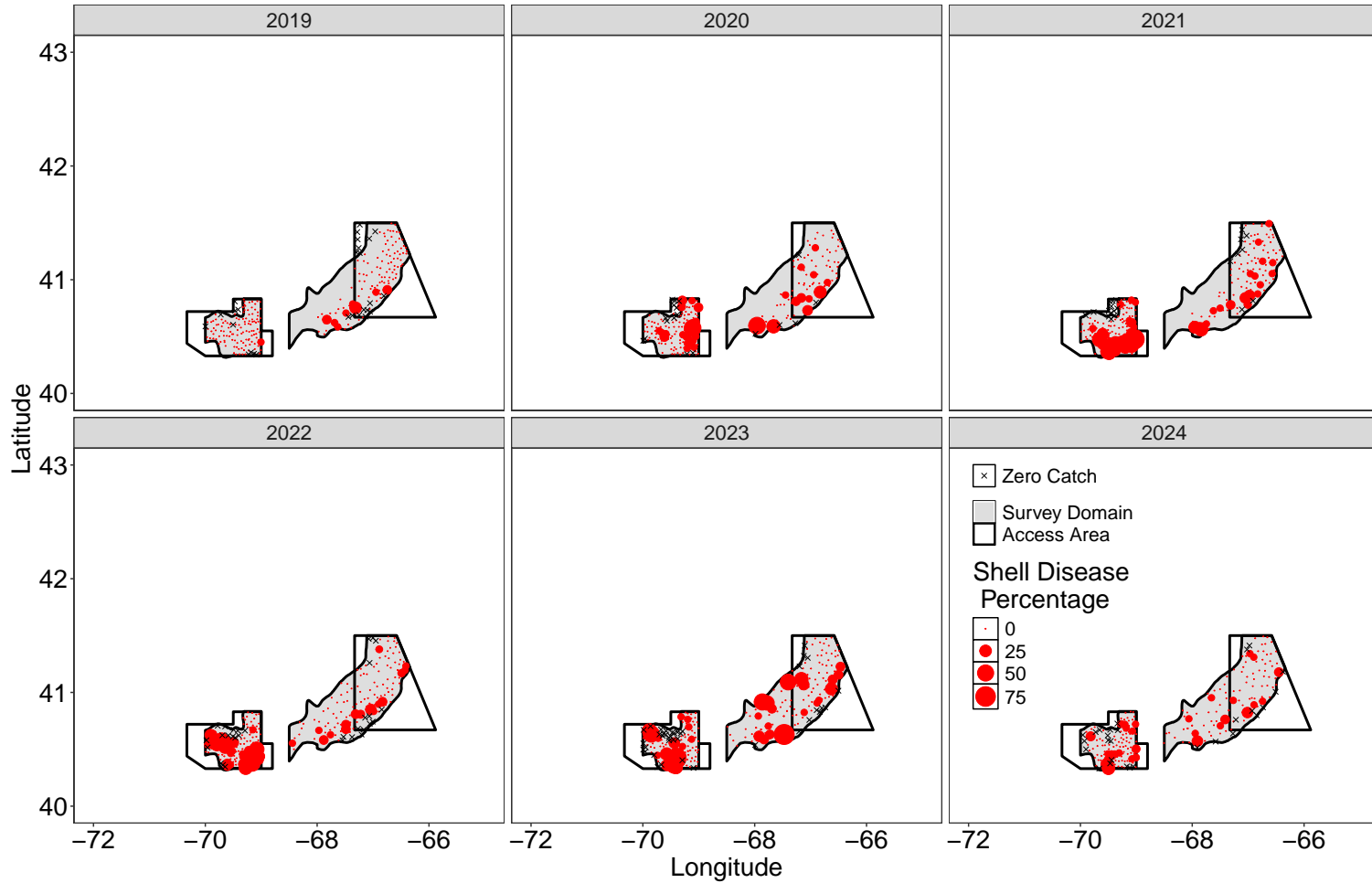


Figure 10: Proportion of scallops infected with shell blister disease for 2019-2024 in the VIMS/Industry cooperative survey of portions of the Georges Bank sea scallop resource area.