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Results for the 2023 VIMS Industry Cooperative Surveys of the Mid-Atlantic Bight and Georges Bank Scallop Resource Areas

Submitted to:
Sea Scallop Fishing Industry

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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 2023 (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 299 mt or 1 million pounds for the Elephant Trunk (ET) SAMS Area. In the NYB Closure SAMS Area, the exploitable biomass estimate was 4,116 mt or 9 million pounds. In the CA II SE SAMS Area, the exploitable biomass estimate was 8,989 mt or 20 million pounds. The exploitable biomass estimate for the CA II SW SAMS Area was 583 mt or 1 million pounds. The exploitable biomass estimate for the CA II Ext SAMS Area was 3,455 mt or 8 million pounds. The CAII North SAMS Area biomass estimate was 9,028 mt or 20 million pounds. In the Southern Flank SAMS Area, the exploitable biomass estimate was 1,782 mt or 4 million pounds. In the Northern Flank SAMS Area, the exploitable biomass estimate was 806 mt or 2 million pounds.

The MAB survey was conducted aboard two commercial vessels: *F/V Italian Princess* and *F/V Carolina Capes II* during May 2023. Each vessel completed one survey leg and occupied a total of 450 stations throughout the MAB survey area. The GB survey was conducted onboard the *F/V Celtic* in June and July 2023 and a total of 369 stations were completed. 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 6–8, 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	243.41	55.94	430.88
	DMV	21.19	4.24	38.14
	ET	299.04	260.62	337.46
	HCS	409.43	314.15	504.71
	LI	3,218.15	2,804.10	3,632.20
	MAB_Nearshore	36.12	20.36	51.88
	NYB	319.06	245.38	392.74
	NYB_Closure	4,116.16	3,257.66	4,974.66
	VIR	0.08	0.02	0.14
GB	CAII_Access_SE	8,988.98	3,154.10	14,823.86
	CAII_Access_SW	582.75	483.16	682.34
	CAII_Ext	3,455.22	1,819.44	5,091.00
	NLS_North	381.23	297.66	464.80
	NLS_South_Deep	154.55	20.15	288.95
	NLS_West	55.38	38.23	72.53
	SF	1,781.59	1,435.32	2,127.86
	CAI_Access	354.72	26.54	682.90
	CAI_Sliver	6,859.68	0.00	14,293.55
	CAI_South	0.00	0.00	0.00
	CAII_North	9,027.50	5,016.14	13,038.86
	GSC	3,971.88	2,144.96	5,798.80
	NF	805.67	285.47	1,325.87
	Southern_CC	48.19	48.19	48.19

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	202301001	36	40.34	74	49.28	0	0.00	0.00	0.00	0
MAB	202301002	36	37.92	74	47.04	0	0.00	0.01	0.00	0
MAB	202301003	36	38.86	74	43.41	0	0.00	0.00	0.00	0
MAB	202301004	36	48.22	74	46.54	0	0.00	0.00	0.00	0
MAB	202301005	36	51.61	74	50.48	0	0.00	0.00	0.00	0
MAB	202301006	36	56.72	74	49.28	0	0.00	0.00	0.00	0
MAB	202301007	36	59.76	74	43.80	0	0.00	0.00	0.00	0
MAB	202301008	37	0.13	74	39.07	0	0.00	0.00	0.00	0
MAB	202301009	37	2.32	74	45.49	0	0.00	0.00	0.00	0
MAB	202301010	37	1.09	74	46.66	0	0.00	0.00	0.00	0
MAB	202301011	37	2.43	74	49.97	0	0.00	0.00	0.00	0
MAB	202301012	37	1.16	74	53.61	0	0.00	0.00	0.00	0
MAB	202301013	37	4.61	74	54.10	0	0.00	0.01	0.00	0
MAB	202301014	37	8.84	74	52.62	0	0.00	0.00	0.00	0
MAB	202301015	37	8.65	74	49.05	0	0.00	0.00	0.00	0
MAB	202301016	37	12.91	74	48.46	0	0.00	0.00	0.00	0
MAB	202301017	37	11.60	74	45.97	0	0.00	0.00	0.00	0
MAB	202301018	37	12.33	74	39.70	0	0.00	0.00	0.00	0
MAB	202301019	37	13.00	74	34.00	0	0.00	0.00	0.00	0
MAB	202301020	37	22.75	74	44.67	0	0.00	0.01	0.00	0
MAB	202301021	37	22.05	74	49.37	0	0.00	0.00	0.00	0
MAB	202301022	37	28.77	74	48.11	0	0.00	0.00	0.00	0
MAB	202301023	37	35.65	74	49.65	0	0.00	0.00	0.00	0
MAB	202301024	37	39.14	74	49.82	0	0.00	0.00	0.00	0
MAB	202301025	37	38.62	74	46.50	0	0.00	0.00	0.00	0
MAB	202301026	37	36.47	74	45.02	0	0.00	0.00	0.00	0
MAB	202301028	37	32.48	74	41.57	0	0.00	0.00	0.00	0
MAB	202301029	37	30.90	74	36.99	0	0.00	0.00	0.00	0
MAB	202301030	37	32.39	74	33.66	0	0.00	0.00	0.00	0
MAB	202301031	37	34.30	74	30.00	0	0.00	0.00	0.00	0
MAB	202301032	37	42.36	74	28.72	0	0.00	0.00	0.00	0
MAB	202301033	37	41.53	74	39.44	0	0.00	0.00	0.00	0
MAB	202301034	37	43.66	74	42.60	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	202301035	37	46.47	74	46.34	0	0.00	0.00	0.00	0
MAB	202301036	37	47.57	74	47.24	0	0.00	0.00	0.00	0
MAB	202301037	37	45.15	74	42.16	0	0.00	0.00	0.00	0
MAB	202301038	37	45.45	74	38.40	0	0.00	0.00	0.00	0
MAB	202301039	37	46.17	74	34.03	0	0.00	0.00	0.00	0
MAB	202301040	37	46.02	74	21.91	0	0.00	0.00	0.00	0
MAB	202301041	37	49.78	74	20.03	0	0.00	0.00	0.00	0
MAB	202301042	37	49.21	74	24.16	0	0.00	0.00	0.00	0
MAB	202301043	37	48.85	74	30.17	0	0.00	0.00	0.00	0
MAB	202301044	37	49.14	74	34.21	0	0.00	0.00	0.00	0
MAB	202301045	37	48.87	74	38.47	0	0.00	0.00	0.00	0
MAB	202301046	37	51.72	74	44.23	0	0.00	0.00	0.00	0
MAB	202301047	37	53.71	74	36.70	0	0.00	0.00	0.00	0
MAB	202301048	37	51.97	74	32.87	0	0.00	0.00	0.00	0
MAB	202301049	37	53.31	74	28.96	0	0.00	0.00	0.00	0
MAB	202301050	37	54.51	74	28.35	0	0.00	0.00	0.00	0
MAB	202301051	37	55.23	74	31.69	0	0.00	0.00	0.00	0
MAB	202301052	37	54.83	74	35.46	0	0.00	0.00	0.00	0
MAB	202301053	37	58.47	74	42.71	0	0.00	0.00	0.00	0
MAB	202301054	38	1.99	74	49.33	0	0.00	0.00	0.00	0
MAB	202301055	38	5.58	74	47.83	0	0.00	0.00	0.00	0
MAB	202301056	38	7.40	74	45.29	0	0.00	0.00	0.00	0
MAB	202301057	38	5.76	74	41.05	0	0.00	0.00	0.00	0
MAB	202301058	38	2.23	74	42.69	0	0.00	0.00	0.00	0
MAB	202301059	37	57.83	74	26.46	0	0.00	0.00	0.00	0
MAB	202301060	37	56.46	74	22.28	0	0.00	0.00	0.00	0
MAB	202301061	37	55.97	74	8.89	0	0.00	0.00	0.00	0
MAB	202301062	37	59.66	74	13.79	0	0.00	0.00	0.00	0
MAB	202301063	38	0.58	74	23.99	0	0.00	0.00	0.00	0
MAB	202301064	38	3.53	74	28.49	0	0.00	0.00	0.00	0
MAB	202301065	38	6.00	74	25.98	0	0.00	0.00	0.00	0
MAB	202301066	38	3.87	74	22.73	0	0.00	0.00	0.00	0
MAB	202301067	38	2.33	74	19.71	0	0.00	0.00	0.00	0
MAB	202301068	38	2.47	74	12.08	0	0.01	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	202301069	38	5.78	74	0.52	0	0.00	0.00	0.00	0
MAB	202301070	38	5.28	74	5.54	1	0.04	0.01	0.00	100
MAB	202301071	38	6.90	74	7.80	1	0.07	0.01	0.00	31
MAB	202301072	38	8.41	74	11.03	12	0.87	0.10	0.00	73
MAB	202301073	38	9.25	74	13.62	1	0.08	0.01	0.00	0
MAB	202301074	38	9.02	74	2.53	31	1.54	0.20	0.01	80
MAB	202301075	38	10.46	73	58.87	2	0.11	0.01	0.00	83
MAB	202301076	38	15.41	73	57.83	33	1.92	0.30	0.01	60
MAB	202301077	38	17.17	73	58.23	5	0.31	0.05	0.00	80
MAB	202301078	38	17.45	74	0.86	0	0.00	0.00	0.00	0
MAB	202301079	38	15.36	74	4.29	3	0.24	0.05	0.00	50
MAB	202301080	38	18.54	74	5.33	12	0.93	0.10	0.00	93
MAB	202301081	38	19.03	74	2.93	4	0.26	0.05	0.00	100
MAB	202301082	38	21.76	74	0.42	33	2.67	0.50	0.01	87
MAB	202301083	38	20.69	73	57.39	6	0.43	0.10	0.00	80
MAB	202301084	38	20.05	73	52.99	3	0.14	0.01	0.00	100
MAB	202301085	38	21.46	73	49.72	0	0.00	0.00	0.00	0
MAB	202301086	38	22.65	73	48.94	2	0.14	0.01	0.00	100
MAB	202301087	38	23.49	73	52.19	6	0.44	0.01	0.00	100
MAB	202301088	38	24.10	73	55.52	37	2.26	0.30	0.01	46
MAB	202301089	38	26.37	73	59.02	22	1.41	0.10	0.00	40
MAB	202301090	38	25.77	74	3.45	17	1.31	0.10	0.00	43
MAB	202301091	38	28.29	74	1.33	4	0.27	0.01	0.00	50
MAB	202301092	38	31.23	73	59.50	3	0.18	0.01	0.00	13
MAB	202301093	38	31.12	73	56.63	6	0.34	0.01	0.00	44
MAB	202301094	38	28.19	73	51.90	33	1.96	0.30	0.01	33
MAB	202301095	38	26.22	73	45.77	15	1.02	0.01	0.00	27
MAB	202301096	38	25.99	73	42.85	0	0.00	0.00	0.00	0
MAB	202301097	38	32.55	73	29.81	0	0.00	0.00	0.00	0
MAB	202301098	38	31.53	73	36.45	6	0.32	0.01	0.00	29
MAB	202301099	38	29.73	73	43.21	26	1.54	0.30	0.00	60
MAB	202301100	38	32.45	73	47.76	23	1.25	0.25	0.00	73
MAB	202301101	38	32.92	73	53.11	11	0.65	0.10	0.00	33
MAB	202301102	38	35.06	73	59.64	0	0.00	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	202301103	38	36.02	73	56.82	4	0.31	0.05	0.00	33
MAB	202301104	38	35.85	73	51.39	11	0.65	0.10	0.00	40
MAB	202301105	38	35.75	73	47.87	14	0.87	0.20	0.00	67
MAB	202301106	38	37.59	73	42.92	30	1.81	0.30	0.01	53
MAB	202301107	38	35.44	73	38.30	38	2.42	0.40	0.01	87
MAB	202301108	38	36.24	73	35.57	29	1.79	0.20	0.01	73
MAB	202301109	38	40.42	73	24.91	2	0.12	0.01	0.00	21
MAB	202301110	38	42.92	73	26.36	20	1.17	0.20	0.00	60
MAB	202301111	38	42.25	73	31.94	14	0.83	0.20	0.00	83
MAB	202301112	38	39.78	73	39.16	61	3.36	0.75	0.01	33
MAB	202301113	38	41.16	73	43.12	38	2.29	0.40	0.01	53
MAB	202301114	38	39.36	73	46.25	19	0.83	0.20	0.00	20
MAB	202301115	38	39.10	73	49.96	16	0.80	0.10	0.00	7
MAB	202301116	38	39.26	73	53.92	10	0.48	0.10	0.00	13
MAB	202301117	38	43.99	73	43.77	21	1.31	0.20	0.00	7
MAB	202301118	38	46.11	73	36.82	12	0.72	0.10	0.00	7
MAB	202301119	38	45.49	73	28.79	0	0.01	0.01	0.00	0
MAB	202301120	38	44.76	73	23.01	3	0.14	0.01	0.00	0
MAB	202301121	38	45.93	73	17.78	12	0.62	0.10	0.00	27
MAB	202301122	38	50.21	73	24.29	10	0.50	0.10	0.00	13
MAB	202301123	38	51.77	73	30.90	56	3.37	0.70	0.01	0
MAB	202301124	38	49.62	73	34.02	49	3.33	0.50	0.01	13
MAB	202301125	38	47.94	73	35.50	13	0.98	0.10	0.00	13
MAB	202301126	38	49.64	73	40.41	9	0.63	0.01	0.00	7
MAB	202301127	38	52.39	73	43.92	2	0.22	0.01	0.00	7
MAB	202301128	38	55.29	73	46.83	3	0.17	0.01	0.00	0
MAB	202301129	38	56.37	73	41.87	3	0.29	0.01	0.00	20
MAB	202301130	38	59.09	73	38.88	48	3.64	0.75	0.01	20
MAB	202301131	38	57.84	73	33.89	9	0.85	0.10	0.00	36
MAB	202301132	38	55.69	73	30.67	102	6.19	1.00	0.02	27
MAB	202301133	38	52.41	73	7.76	3	0.18	0.01	0.00	40
MAB	202301134	38	56.48	73	7.74	0	0.00	0.00	0.00	0
MAB	202301135	39	0.19	72	54.99	1	0.05	0.01	0.00	0
MAB	202301136	39	3.25	72	53.59	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	202301137	39	6.30	72	56.66	0	0.00	0.00	0.00	0
MAB	202301138	39	1.45	73	5.30	0	0.00	0.00	0.00	0
MAB	202301139	39	2.19	73	11.97	24	1.54	0.20	0.00	27
MAB	202301140	39	0.31	73	27.46	25	1.73	0.30	0.00	20
MAB	202301141	39	3.63	73	26.80	36	2.52	0.40	0.01	20
MAB	202301142	39	6.57	73	29.99	47	3.40	0.50	0.01	0
MAB	202301143	39	8.47	73	35.72	2	0.10	0.01	0.00	0
MAB	202301144	39	9.39	73	25.84	41	3.35	0.70	0.01	7
MAB	202301145	39	6.44	73	24.59	94	6.80	1.10	0.02	33
MAB	202301147	39	4.45	73	21.05	47	2.77	0.70	0.01	13
MAB	202301148	39	5.27	73	18.12	22	1.41	0.30	0.00	33
MAB	202301149	39	7.06	73	13.07	30	2.14	0.40	0.01	20
MAB	202301150	39	7.73	73	9.95	28	1.66	0.30	0.01	20
MAB	202301151	39	12.26	72	57.37	1	0.03	0.01	0.00	100
MAB	202301152	39	16.37	73	1.31	65	3.82	0.80	0.01	47
MAB	202301153	39	15.54	73	7.79	54	3.86	0.60	0.01	47
MAB	202301154	39	14.73	73	10.74	17	1.08	0.30	0.00	40
MAB	202301155	39	12.25	73	16.46	26	1.91	0.30	0.01	40
MAB	202301156	39	16.26	73	20.98	28	2.48	0.40	0.01	13
MAB	202301157	39	17.89	73	16.71	37	2.51	0.30	0.01	20
MAB	202301158	39	21.18	73	7.71	10	0.61	0.10	0.00	50
MAB	202301159	39	22.40	73	3.87	20	1.33	0.20	0.00	53
MAB	202301160	39	21.26	72	59.71	6	0.30	0.20	0.00	100
MAB	202301161	39	19.64	72	52.87	0	0.00	0.00	0.00	0
MAB	202301162	39	21.65	72	47.88	0	0.00	0.00	0.00	0
MAB	202301163	39	22.57	72	42.88	0	0.00	0.00	0.00	0
MAB	202301164	39	23.20	72	49.95	0	0.00	0.00	0.00	0
MAB	202301165	39	23.96	72	55.43	16	0.95	0.20	0.00	73
MAB	202301166	39	25.04	73	2.25	29	1.49	0.30	0.01	33
MAB	202301167	39	25.55	73	7.77	15	0.90	0.10	0.00	33
MAB	202301168	39	27.67	73	7.76	17	1.16	0.10	0.00	27
MAB	202301169	39	28.35	73	4.09	57	2.78	0.80	0.01	47
MAB	202301170	39	26.11	73	0.30	35	1.98	0.80	0.01	27
MAB	202301171	39	27.39	72	56.06	26	1.41	0.40	0.00	13

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202301172	39	29.02	72	53.54	21	1.10	0.30	0.00	33
MAB	202301173	39	26.78	72	51.67	20	0.99	0.20	0.00	43
MAB	202301174	39	28.18	72	48.50	33	1.78	0.40	0.01	33
MAB	202301175	39	28.13	72	45.13	5	0.22	0.01	0.00	20
MAB	202301176	39	32.07	72	36.76	0	0.00	0.00	0.00	0
MAB	202301177	39	31.97	72	56.14	440	32.42	5.80	0.09	20
MAB	202301178	39	31.05	73	0.79	59	2.91	1.00	0.01	0
MAB	202301180	39	33.29	73	3.86	46	2.60	0.80	0.01	60
MAB	202301181	39	33.75	73	6.34	20	1.93	0.20	0.00	27
MAB	202301182	39	30.98	73	7.86	17	1.75	0.20	0.00	40
MAB	202301183	39	29.08	73	20.03	3	0.37	0.01	0.00	0
MAB	202301184	39	29.95	73	22.93	0	0.00	0.00	0.00	0
MAB	202301185	39	31.93	73	25.38	0	0.00	0.00	0.00	0
MAB	202301186	39	26.46	73	30.02	0	0.00	0.00	0.00	0
MAB	202301187	39	25.78	73	32.63	0	0.00	0.00	0.00	0
MAB	202301188	39	14.76	73	38.46	5	0.46	0.01	0.00	57
MAB	202301189	39	15.61	73	46.42	0	0.00	0.00	0.00	0
MAB	202301190	39	5.16	73	55.31	0	0.00	0.00	0.00	0
MAB	202301191	39	0.46	73	50.29	0	0.00	0.00	0.00	0
MAB	202301192	38	55.52	73	53.62	0	0.00	0.00	0.00	0
MAB	202301193	38	56.87	73	56.90	0	0.00	0.00	0.00	0
MAB	202301194	38	58.47	74	2.86	0	0.00	0.00	0.00	0
MAB	202301195	38	53.30	74	4.78	0	0.00	0.00	0.00	0
MAB	202301196	38	47.62	73	58.72	1	0.05	0.01	0.00	0
MAB	202301197	38	48.40	73	56.22	6	0.37	0.01	0.00	13
MAB	202301198	38	46.77	73	51.61	7	0.43	0.01	0.00	0
MAB	202301199	38	44.23	74	4.67	6	0.42	0.01	0.00	8
MAB	202301200	38	44.47	74	10.55	1	0.03	0.01	0.00	0
MAB	202301201	38	48.70	74	11.52	0	0.00	0.00	0.00	0
MAB	202301202	38	49.34	74	16.69	0	0.00	0.00	0.00	0
MAB	202301203	38	43.22	74	16.39	0	0.00	0.00	0.00	0
MAB	202301204	38	38.81	74	21.57	0	0.00	0.00	0.00	0
MAB	202301205	38	35.96	74	13.55	1	0.04	0.01	0.00	7
MAB	202301206	38	35.40	74	9.32	1	0.12	0.01	0.00	60

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202301207	38	37.85	74	6.05	2	0.10	0.01	0.00	27
MAB	202301208	38	35.24	74	3.26	2	0.06	0.01	0.00	27
MAB	202301209	38	33.49	74	5.47	12	0.84	0.20	0.00	67
MAB	202301210	38	31.97	74	12.41	2	0.12	0.01	0.00	13
MAB	202301211	38	30.57	74	18.19	0	0.00	0.00	0.00	0
MAB	202301212	38	29.87	74	25.00	0	0.00	0.00	0.00	0
MAB	202301213	38	26.93	74	23.85	11	0.35	0.20	0.00	0
MAB	202301214	38	28.43	74	13.39	15	0.92	0.30	0.00	60
MAB	202301215	38	28.99	74	9.10	0	0.00	0.00	0.00	0
MAB	202301216	38	25.72	74	13.63	2	0.12	0.01	0.00	0
MAB	202301217	38	23.37	74	14.79	0	0.00	0.00	0.00	0
MAB	202301218	38	23.21	74	9.82	2	0.13	0.01	0.00	13
MAB	202301219	38	23.07	74	7.12	23	1.46	0.30	0.00	40
MAB	202301220	38	21.41	74	11.10	37	1.65	0.40	0.01	20
MAB	202301221	38	20.75	74	18.02	1	0.03	0.01	0.00	13
MAB	202301222	38	18.76	74	13.44	5	0.31	0.01	0.00	64
MAB	202301223	38	16.62	74	17.69	6	0.36	0.01	0.00	14
MAB	202301224	38	14.69	74	14.61	4	0.31	0.01	0.00	20
MAB	202301225	38	13.48	74	16.52	23	1.29	0.30	0.00	7
MAB	202301226	38	10.19	74	21.84	3	0.14	0.01	0.00	25
MAB	202301227	38	9.89	74	25.97	0	0.00	0.00	0.00	0
MAB	202301228	38	12.07	74	30.76	0	0.00	0.00	0.00	0
MAB	202302001	39	31.94	73	33.85	0	0.00	0.00	0.00	0
MAB	202302002	39	42.88	73	17.87	1	0.03	0.01	0.00	0
MAB	202302003	39	35.51	73	3.80	84	6.36	1.40	0.02	20
MAB	202302004	39	35.33	73	2.50	52	2.95	1.00	0.01	40
MAB	202302005	39	35.15	72	58.56	542	28.69	5.50	0.11	27
MAB	202302006	39	34.09	72	54.68	179	10.95	2.00	0.03	53
MAB	202302007	39	33.99	72	48.62	1009	47.59	10.00	0.20	54
MAB	202302008	39	34.12	72	44.33	104	5.30	1.50	0.02	47
MAB	202302009	39	37.13	72	44.63	83	4.67	1.50	0.02	80
MAB	202302010	39	40.96	72	46.71	50	2.79	0.80	0.01	93
MAB	202302011	39	40.82	72	47.89	59	3.63	0.80	0.01	82
MAB	202302012	39	39.56	72	53.29	325	18.16	2.80	0.06	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	202302013	39	40.02	72	59.16	324	22.02	3.50	0.06	33
MAB	202302014	39	38.92	73	2.87	88	8.35	1.05	0.02	47
MAB	202302015	39	42.70	73	3.64	367	25.48	3.90	0.07	20
MAB	202302016	39	42.49	73	0.72	35	2.95	0.75	0.01	27
MAB	202302017	39	43.60	72	56.76	650	35.34	7.25	0.13	27
MAB	202302018	39	43.38	72	52.64	5	0.29	0.05	0.00	50
MAB	202302019	39	43.11	72	50.71	5	0.30	0.05	0.00	100
MAB	202302020	39	46.30	72	44.82	73	5.92	1.30	0.01	27
MAB	202302021	39	48.72	72	51.90	18	1.50	0.20	0.00	67
MAB	202302022	39	50.51	72	55.22	28	2.40	0.40	0.01	20
MAB	202302024	39	45.74	73	0.10	1318	65.17	13.75	0.26	40
MAB	202302025	39	46.63	73	3.59	1031	58.53	12.00	0.20	33
MAB	202302026	39	46.15	73	7.30	134	9.96	1.75	0.03	0
MAB	202302027	39	46.38	73	13.58	23	2.18	0.30	0.00	13
MAB	202302028	39	47.16	73	17.33	17	1.68	0.20	0.00	7
MAB	202302029	39	51.54	73	20.26	117	7.29	1.50	0.02	33
MAB	202302030	39	52.10	73	16.07	1157	69.64	13.00	0.23	7
MAB	202302031	39	51.26	73	11.73	1312	69.89	15.50	0.24	38
MAB	202302032	39	49.45	73	8.84	387	25.31	4.90	0.08	14
MAB	202302033	39	50.45	73	7.16	1252	82.10	6.50	0.24	40
MAB	202302033	39	50.45	73	7.16	1252	82.10	6.50	0.24	40
MAB	202302034	39	53.64	73	7.08	1	0.05	0.01	0.00	0
MAB	202302035	39	55.40	73	7.28	21	1.55	0.30	0.00	27
MAB	202302036	39	56.49	73	9.44	0	0.00	0.00	0.00	0
MAB	202302037	39	57.91	73	5.40	31	2.72	0.40	0.01	33
MAB	202302038	39	53.96	73	4.19	10	0.70	0.10	0.00	36
MAB	202302039	39	52.95	73	1.36	12	1.11	0.10	0.00	46
MAB	202302040	39	53.02	72	59.67	14	1.29	0.20	0.00	20
MAB	202302041	39	53.42	72	55.60	21	1.96	0.25	0.00	13
MAB	202302042	39	55.77	72	50.06	104	8.63	1.25	0.02	27
MAB	202302043	39	54.50	72	46.02	98	8.46	1.30	0.02	20
MAB	202302044	39	49.63	72	40.54	195	14.62	2.10	0.04	21
MAB	202302045	39	46.73	72	35.43	47	3.14	0.50	0.01	47
MAB	202302046	39	46.53	72	28.89	5	0.32	0.05	0.00	21

Table 2: continued

Survey	StationID	Latitude (degrees)	Latitude (minutes)	Longitude (degrees)	Longitude (minutes)	Scallops (number)	Scallops (lbs)	Scallops (baskets)	Scallop density	Nematode Prevalence (%)
MAB	202302047	39	50.71	72	30.21	211	11.89	2.00	0.04	33
MAB	202302048	39	51.51	72	36.07	233	15.57	2.50	0.05	33
MAB	202302049	39	55.71	72	39.13	174	13.37	1.90	0.03	20
MAB	202302050	39	56.61	72	35.22	176	12.34	1.90	0.03	60
MAB	202302051	39	55.38	72	29.86	179	12.63	1.90	0.03	13
MAB	202302052	39	54.11	72	24.47	1	0.06	0.01	0.00	0
MAB	202302053	39	56.76	72	24.64	3	0.16	0.01	0.00	67
MAB	202302054	39	58.31	72	31.01	495	28.32	4.90	0.10	40
MAB	202302055	39	59.40	72	35.97	350	20.88	4.00	0.07	13
MAB	202302056	39	59.52	72	43.30	155	11.70	2.00	0.03	40
MAB	202302057	40	1.56	72	49.49	36	2.80	0.50	0.01	27
MAB	202302058	40	0.37	72	56.28	19	1.42	0.20	0.00	13
MAB	202302060	40	4.98	73	1.86	35	3.21	0.50	0.01	13
MAB	202302061	40	4.33	72	56.25	26	2.18	0.40	0.01	7
MAB	202302062	40	3.19	72	44.80	59	3.94	0.70	0.01	13
MAB	202302063	40	3.83	72	42.18	44	3.42	0.70	0.01	20
MAB	202302064	40	1.68	72	34.56	51	3.98	0.80	0.01	53
MAB	202302065	40	0.77	72	30.22	52	4.14	0.80	0.01	20
MAB	202302066	40	0.73	72	25.97	14	1.02	0.20	0.00	20
MAB	202302067	40	4.46	72	10.87	0	0.00	0.00	0.00	0
MAB	202302068	40	4.32	72	5.08	0	0.00	0.00	0.00	0
MAB	202302069	40	8.87	72	3.74	2	0.09	0.01	0.00	7
MAB	202302070	40	9.42	72	10.96	1	0.07	0.01	0.00	0
MAB	202302071	40	7.23	72	15.13	6	0.36	0.05	0.00	14
MAB	202302072	40	6.20	72	27.46	83	6.03	0.90	0.02	13
MAB	202302073	40	3.60	72	31.18	98	6.43	1.00	0.02	27
MAB	202302074	40	5.91	72	33.76	147	13.30	1.80	0.03	7
MAB	202302075	40	6.65	72	40.29	99	8.63	1.20	0.02	7
MAB	202302076	40	6.01	72	45.58	56	4.64	0.80	0.01	7
MAB	202302077	40	8.13	72	50.60	31	2.53	0.50	0.01	0
MAB	202302078	40	7.88	73	1.19	39	3.05	0.60	0.01	7
MAB	202302079	40	12.12	72	59.57	37	2.99	0.40	0.01	7
MAB	202302080	40	11.41	72	56.78	36	2.60	0.50	0.01	0
MAB	202302081	40	10.00	72	44.35	38	3.38	0.60	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	202302082	40	9.85	72	40.80	103	7.91	1.20	0.02	7
MAB	202302083	40	9.97	72	37.38	57	4.38	0.90	0.01	13
MAB	202302084	40	9.80	72	33.78	18	1.62	0.20	0.00	13
MAB	202302085	40	10.33	72	18.18	73	5.77	1.00	0.01	0
MAB	202302086	40	13.21	72	15.23	52	3.72	0.80	0.01	0
MAB	202302087	40	12.29	72	9.67	1	0.06	0.01	0.00	67
MAB	202302088	40	12.63	72	4.95	6	0.35	0.01	0.00	7
MAB	202302089	40	14.12	72	1.65	69	3.93	0.80	0.01	0
MAB	202302090	40	13.47	71	56.10	1	0.05	0.01	0.00	0
MAB	202302091	40	15.65	71	54.14	1	0.02	0.01	0.00	0
MAB	202302092	40	16.91	71	56.62	7	0.44	0.01	0.00	23
MAB	202302093	40	16.64	72	4.64	141	8.92	1.50	0.03	7
MAB	202302094	40	18.34	72	9.55	178	11.40	2.00	0.03	0
MAB	202302096	40	18.11	72	13.62	291	22.67	3.00	0.06	7
MAB	202302097	40	15.21	72	18.03	57	4.63	0.80	0.01	7
MAB	202302098	40	13.09	72	23.26	37	3.27	0.60	0.01	0
MAB	202302099	40	14.57	72	26.49	0	0.00	0.00	0.00	0
MAB	202302101	40	14.97	72	27.88	128	10.86	1.50	0.02	7
MAB	202302102	40	16.23	72	30.39	79	7.03	1.00	0.02	7
MAB	202302103	40	16.89	72	32.79	183	15.13	2.10	0.04	7
MAB	202302104	40	15.55	72	36.50	62	5.28	0.80	0.01	7
MAB	202302105	40	17.25	72	37.77	102	8.12	1.00	0.02	0
MAB	202302106	40	18.60	72	41.41	40	2.73	0.40	0.01	0
MAB	202302107	40	17.67	72	45.39	59	4.82	0.60	0.01	0
MAB	202302108	40	18.32	72	53.28	33	2.57	0.30	0.01	7
MAB	202302109	40	23.09	72	49.89	26	2.14	0.30	0.01	0
MAB	202302110	40	22.64	72	43.32	35	2.98	0.50	0.01	20
MAB	202302111	40	24.68	72	40.04	22	1.76	0.20	0.00	7
MAB	202302112	40	25.53	72	34.72	34	2.72	0.30	0.01	7
MAB	202302113	40	24.69	72	36.81	93	7.19	1.00	0.02	7
MAB	202302114	40	21.81	72	38.45	78	5.98	1.00	0.02	0
MAB	202302115	40	20.71	72	35.23	51	3.99	0.60	0.01	0
MAB	202302116	40	19.25	72	27.61	91	8.33	1.10	0.02	0
MAB	202302117	40	20.61	72	25.08	175	14.88	2.20	0.03	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	202302118	40	20.91	72	20.44	126	10.77	1.50	0.02	7
MAB	202302119	40	22.25	72	9.56	12	1.00	0.10	0.00	0
MAB	202302120	40	20.89	72	5.41	0	0.00	0.00	0.00	0
MAB	202302121	40	21.04	71	47.05	4	0.26	0.01	0.00	0
MAB	202302122	40	23.79	71	49.71	0	0.00	0.00	0.00	0
MAB	202302123	40	26.46	71	45.48	0	0.00	0.00	0.00	0
MAB	202302124	40	27.69	71	52.32	0	0.00	0.00	0.00	0
MAB	202302125	40	27.94	71	55.69	4	0.29	0.05	0.00	0
MAB	202302126	40	26.02	72	1.25	47	4.01	0.75	0.01	0
MAB	202302127	40	25.49	72	4.27	81	6.91	1.10	0.02	7
MAB	202302128	40	27.93	72	13.62	25	2.18	0.25	0.00	0
MAB	202302129	40	25.55	72	18.17	42	4.30	0.80	0.01	0
MAB	202302130	40	28.78	72	22.03	34	3.40	0.50	0.01	0
MAB	202302131	40	27.43	72	27.86	181	13.70	1.75	0.04	0
MAB	202302132	40	28.03	72	32.42	82	6.58	0.90	0.02	0
MAB	202302133	40	33.14	72	28.47	17	1.45	0.25	0.00	0
MAB	202302134	40	33.88	72	18.52	2	0.16	0.01	0.00	0
MAB	202302135	40	32.11	72	9.37	71	7.38	1.00	0.01	0
MAB	202302136	40	31.52	72	3.08	133	9.89	1.30	0.03	0
MAB	202302137	40	31.13	71	57.66	77	6.60	0.90	0.01	0
MAB	202302138	40	32.33	71	54.16	94	7.74	1.05	0.02	0
MAB	202302139	40	30.71	71	50.62	3	0.23	0.01	0.00	0
MAB	202302140	40	31.41	71	44.04	0	0.00	0.00	0.00	0
MAB	202302141	40	33.23	71	35.15	0	0.00	0.00	0.00	0
MAB	202302142	40	35.50	71	39.38	0	0.00	0.00	0.00	0
MAB	202302143	40	35.88	71	44.95	15	1.10	0.20	0.00	0
MAB	202302144	40	35.91	71	50.77	112	6.84	1.00	0.02	0
MAB	202302145	40	37.16	71	55.11	224	17.56	2.20	0.05	0
MAB	202302146	40	40.41	71	54.97	163	11.79	1.80	0.03	0
MAB	202302147	40	39.74	71	41.27	2	0.09	0.01	0.00	0
MAB	202302148	40	40.09	71	34.75	1	0.04	0.01	0.00	0
MAB	202302149	40	43.12	71	39.62	0	0.00	0.00	0.00	0
MAB	202302150	40	44.01	71	45.67	189	13.39	1.80	0.04	0
MAB	202302151	40	44.11	71	48.70	174	13.79	1.90	0.03	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	202302153	40	45.17	71	54.63	49	4.04	0.60	0.01	0
MAB	202302154	40	46.85	71	59.18	2	0.10	0.01	0.00	0
MAB	202302155	40	51.72	71	53.23	0	0.00	0.00	0.00	0
MAB	202302156	40	53.14	71	48.08	9	0.59	0.10	0.00	0
MAB	202302157	40	55.33	71	36.12	196	14.34	1.90	0.04	7
MAB	202302158	41	0.59	71	27.77	23	1.82	0.25	0.00	0
MAB	202302159	41	3.19	71	30.66	0	0.00	0.00	0.00	0
MAB	202302160	41	4.92	71	39.17	0	0.00	0.00	0.00	0
MAB	202302161	40	59.05	71	44.55	4	0.37	0.05	0.00	0
MAB	202302162	40	54.09	71	50.05	0	0.00	0.00	0.00	0
MAB	202302163	40	54.14	71	54.93	0	0.00	0.00	0.00	0
MAB	202302164	40	53.35	71	58.87	0	0.00	0.00	0.00	0
MAB	202302165	40	50.44	72	2.69	0	0.00	0.00	0.00	0
MAB	202302166	40	49.63	72	5.66	0	0.00	0.00	0.00	0
MAB	202302167	40	51.49	72	10.78	0	0.00	0.00	0.00	0
MAB	202302168	40	48.25	72	11.82	0	0.00	0.00	0.00	0
MAB	202302169	40	47.59	72	18.07	0	0.00	0.00	0.00	0
MAB	202302170	40	44.05	72	17.97	13	1.00	0.10	0.00	0
MAB	202302171	40	41.02	72	17.87	15	1.30	0.10	0.00	0
MAB	202302172	40	39.57	72	13.84	0	0.00	0.00	0.00	0
MAB	202302174	40	40.16	72	8.27	3	0.24	0.01	0.00	0
MAB	202302175	40	38.70	72	3.68	165	14.67	2.10	0.03	0
MAB	202302176	40	36.68	72	6.55	47	4.43	0.50	0.01	0
MAB	202302177	40	39.49	72	26.97	0	0.00	0.00	0.00	0
MAB	202302178	40	40.97	72	33.16	0	0.00	0.00	0.00	0
MAB	202302179	40	40.18	72	41.01	0	0.00	0.00	0.00	0
MAB	202302180	40	38.88	72	37.81	0	0.00	0.00	0.00	0
MAB	202302181	40	37.30	72	32.32	0	0.00	0.00	0.00	0
MAB	202302182	40	34.84	72	38.89	0	0.00	0.00	0.00	0
MAB	202302183	40	35.31	72	43.74	0	0.00	0.01	0.00	0
MAB	202302184	40	33.92	72	46.95	0	0.00	0.00	0.00	0
MAB	202302185	40	30.29	72	56.29	0	0.00	0.00	0.00	0
MAB	202302186	40	28.75	73	3.88	0	0.00	0.00	0.00	0
MAB	202302187	40	24.38	72	57.84	1	0.13	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	202302188	40	22.23	73	3.11	5	0.47	0.05	0.00	0
MAB	202302189	40	21.96	73	7.18	0	0.00	0.00	0.00	0
MAB	202302190	40	27.73	73	9.55	0	0.00	0.00	0.00	0
MAB	202302191	40	27.89	73	15.92	0	0.00	0.00	0.00	0
MAB	202302192	40	25.02	73	20.81	0	0.00	0.00	0.00	0
MAB	202302193	40	21.05	73	22.36	0	0.00	0.00	0.00	0
MAB	202302194	40	19.25	73	27.67	0	0.00	0.00	0.00	0
MAB	202302196	40	15.69	73	19.98	0	0.00	0.00	0.00	0
MAB	202302197	40	15.52	73	13.92	0	0.00	0.00	0.00	0
MAB	202302198	40	13.45	73	10.48	13	1.22	0.20	0.00	0
MAB	202302199	40	11.63	73	7.73	18	1.61	0.20	0.00	0
MAB	202302200	40	11.34	73	18.92	0	0.00	0.00	0.00	0
MAB	202302201	40	14.38	73	31.21	0	0.00	0.00	0.00	0
MAB	202302202	40	11.76	73	32.88	0	0.00	0.00	0.00	0
MAB	202302203	40	7.99	73	29.19	0	0.00	0.00	0.00	0
MAB	202302205	40	4.14	73	27.35	22	2.20	0.30	0.00	7
MAB	202302206	40	4.55	73	26.60	2	0.17	0.01	0.00	0
MAB	202302207	40	1.92	73	25.17	0	0.00	0.00	0.00	0
MAB	202302208	40	1.54	73	22.02	21	2.40	0.30	0.00	14
MAB	202302209	40	1.01	73	20.95	10	0.96	0.20	0.00	10
MAB	202302210	40	1.13	73	13.56	4	0.45	0.05	0.00	25
MAB	202302211	39	59.76	73	15.34	254	23.70	3.25	0.05	20
MAB	202302212	39	58.85	73	16.49	2	0.11	0.01	0.00	0
MAB	202302213	39	56.59	73	17.85	42	2.55	0.50	0.01	13
MAB	202302214	39	54.55	73	21.91	34	2.52	0.50	0.01	20
MAB	202302215	39	57.28	73	22.75	39	2.69	0.50	0.01	20
MAB	202302216	40	0.05	73	25.79	121	7.97	1.25	0.02	36
MAB	202302217	40	3.04	73	28.30	0	0.00	0.00	0.00	0
MAB	202302218	40	3.19	73	30.69	36	2.63	0.50	0.01	27
MAB	202302219	40	5.39	73	32.50	0	0.00	0.00	0.00	0
MAB	202302221	40	5.36	73	36.55	2	0.16	0.01	0.00	0
MAB	202302222	40	7.56	73	37.57	1	0.06	0.01	0.00	0
MAB	202302226	40	11.12	73	44.36	0	0.00	0.00	0.00	0
MAB	202302227	40	13.11	73	43.30	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	202302228	40	15.06	73	45.85	0	0.00	0.00	0.00	0
MAB	202302229	40	9.96	73	49.37	0	0.00	0.00	0.00	0
MAB	202302230	40	6.07	73	45.35	0	0.00	0.00	0.00	0
MAB	202302231	40	0.75	73	47.10	0	0.00	0.00	0.00	0
MAB	202302233	40	4.66	73	38.06	0	0.00	0.00	0.00	0
MAB	202302234	40	2.82	73	35.00	0	0.00	0.00	0.00	0
MAB	202302235	39	58.35	73	33.85	0	0.00	0.00	0.00	0
MAB	202302236	39	55.45	73	34.23	0	0.00	0.00	0.00	0
MAB	202302237	39	52.41	73	30.89	0	0.00	0.00	0.00	0
MAB	202302238	39	53.13	73	25.90	25	2.25	0.30	0.00	36
GB	202303001	40	42.21	69	51.80	0	0.00	0.00	0.00	0
GB	202303002	40	39.81	69	53.02	2	0.19	0.01	0.00	0
GB	202303003	40	40.28	69	59.12	2	0.22	0.01	0.00	0
GB	202303004	40	38.13	69	54.26	0	0.00	0.00	0.00	0
GB	202303005	40	38.06	69	50.96	2	0.26	0.01	0.00	0
GB	202303006	40	38.88	69	48.00	1	0.07	0.01	0.00	0
GB	202303007	40	37.84	69	42.14	0	0.00	0.00	0.00	0
GB	202303008	40	37.14	69	38.81	0	0.00	0.00	0.00	0
GB	202303009	40	38.23	69	37.96	0	0.00	0.00	0.00	0
GB	202303011	40	39.75	69	35.15	0	0.00	0.00	0.00	0
GB	202303012	40	37.77	69	35.34	0	0.00	0.00	0.00	0
GB	202303013	40	34.95	69	39.94	0	0.00	0.00	0.00	0
GB	202303014	40	35.76	69	43.53	0	0.00	0.00	0.00	0
GB	202303015	40	35.68	69	46.45	1	0.02	0.01	0.00	0
GB	202303016	40	35.65	69	50.12	1	0.05	0.01	0.00	0
GB	202303017	40	35.70	69	53.51	0	0.00	0.00	0.00	0
GB	202303018	40	36.34	69	56.36	0	0.00	0.00	0.00	0
GB	202303019	40	35.94	69	59.55	1	0.14	0.01	0.00	0
GB	202303020	40	33.12	69	59.44	0	0.00	0.00	0.00	0
GB	202303021	40	29.83	69	59.57	0	0.00	0.00	0.00	0
GB	202303022	40	28.72	69	57.47	0	0.00	0.00	0.00	0
GB	202303023	40	31.03	69	56.95	0	0.00	0.00	0.00	0
GB	202303024	40	32.28	69	55.06	0	0.00	0.00	0.00	0
GB	202303025	40	31.27	69	51.39	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 (%)
GB	202303026	40	33.08	69	49.30	13	0.34	0.10	0.00	0
GB	202303027	40	30.77	69	47.57	0	0.00	0.00	0.00	0
GB	202303028	40	28.32	69	50.76	0	0.00	0.00	0.00	0
GB	202303029	40	26.94	69	47.93	0	0.00	0.00	0.00	0
GB	202303030	40	26.80	69	44.42	30	2.77	0.25	0.01	0
GB	202303031	40	27.91	69	41.78	2	0.20	0.01	0.00	0
GB	202303032	40	31.53	69	41.17	1	0.05	0.05	0.00	0
GB	202303033	40	33.13	69	38.92	0	0.00	0.00	0.00	0
GB	202303034	40	32.44	69	35.25	4	0.42	0.05	0.00	0
GB	202303035	40	31.43	69	37.65	0	0.00	0.00	0.00	0
GB	202303036	40	29.64	69	33.20	3	0.30	0.01	0.00	0
GB	202303037	40	28.54	69	33.62	1	0.11	0.01	0.00	0
GB	202303038	40	27.52	69	34.42	5	0.46	0.10	0.00	0
GB	202303039	40	27.58	69	36.76	4	0.30	0.05	0.00	0
GB	202303040	40	25.45	69	39.08	20	1.78	0.20	0.00	0
GB	202303041	40	23.65	69	43.44	0	0.00	0.00	0.00	0
GB	202303042	40	20.62	69	44.13	1	0.07	0.01	0.00	0
GB	202303043	40	21.84	69	40.12	0	0.00	0.00	0.00	0
GB	202303044	40	20.14	69	38.38	1	0.07	0.01	0.00	0
GB	202303045	40	22.25	69	36.63	7	0.51	0.10	0.00	0
GB	202303046	40	21.10	69	34.16	40	2.54	0.50	0.01	0
GB	202303047	40	20.65	69	30.40	52	3.45	0.60	0.01	0
GB	202303048	40	22.48	69	28.24	769	31.87	9.00	0.15	0
GB	202303049	40	24.47	69	33.33	26	2.26	0.25	0.00	0
GB	202303050	40	25.39	69	30.24	32	2.96	0.40	0.01	0
GB	202303051	40	26.86	69	28.73	34	2.70	0.80	0.01	0
GB	202303052	40	29.77	69	27.84	4	0.54	0.10	0.00	0
GB	202303053	40	34.69	69	31.93	0	0.00	0.00	0.00	0
GB	202303054	40	35.94	69	32.01	0	0.00	0.00	0.00	0
GB	202303055	40	37.00	69	30.46	0	0.00	0.00	0.00	0
GB	202303056	40	38.71	69	28.58	0	0.00	0.00	0.00	0
GB	202303057	40	38.46	69	26.28	0	0.00	0.00	0.00	0
GB	202303058	40	34.96	69	27.25	0	0.00	0.00	0.00	0
GB	202303059	40	33.32	69	26.31	5	0.67	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 (%)
GB	202303061	40	31.40	69	23.29	5	0.57	0.05	0.00	0
GB	202303062	40	27.93	69	24.73	28	1.93	0.50	0.01	0
GB	202303063	40	24.66	69	23.59	1	0.03	0.01	0.00	0
GB	202303064	40	21.62	69	26.38	3	0.13	0.01	0.00	0
GB	202303065	40	20.53	69	24.45	5	0.21	0.05	0.00	0
GB	202303066	40	20.18	69	20.22	0	0.00	0.00	0.00	0
GB	202303067	40	21.45	69	12.86	0	0.00	0.00	0.00	0
GB	202303068	40	20.73	69	9.45	1	0.02	0.01	0.00	0
GB	202303069	40	20.18	69	5.66	0	0.00	0.00	0.00	0
GB	202303070	40	21.15	69	2.65	1	0.04	0.01	0.00	0
GB	202303071	40	23.39	69	1.07	8	0.37	0.10	0.00	0
GB	202303072	40	23.90	69	4.46	0	0.00	0.00	0.00	0
GB	202303073	40	23.68	69	8.45	0	0.00	0.00	0.00	0
GB	202303074	40	24.60	69	12.20	0	0.00	0.00	0.00	0
GB	202303075	40	23.63	69	14.72	0	0.00	0.00	0.00	0
GB	202303076	40	24.23	69	17.60	0	0.00	0.00	0.00	0
GB	202303077	40	23.34	69	20.68	0	0.00	0.00	0.00	0
GB	202303078	40	26.13	69	20.28	1	0.02	0.01	0.00	0
GB	202303079	40	27.05	69	11.10	0	0.00	0.00	0.00	0
GB	202303080	40	25.34	69	7.23	0	0.00	0.00	0.00	0
GB	202303081	40	26.11	69	3.16	6	0.32	0.08	0.00	0
GB	202303082	40	28.31	69	1.26	2	0.16	0.05	0.00	0
GB	202303083	40	29.72	69	0.34	22	1.74	0.30	0.00	0
GB	202303084	40	29.44	69	3.37	1	0.05	0.01	0.00	0
GB	202303085	40	29.39	69	9.10	0	0.00	0.00	0.00	0
GB	202303086	40	29.06	69	11.53	0	0.00	0.00	0.00	0
GB	202303087	40	28.35	69	14.53	1	0.04	0.01	0.00	0
GB	202303088	40	28.79	69	20.20	5	0.42	0.05	0.00	0
GB	202303089	40	32.14	69	20.95	1	0.08	0.01	0.00	0
GB	202303090	40	31.49	69	17.55	11	1.04	0.10	0.00	0
GB	202303091	40	31.84	69	14.60	4	0.41	0.05	0.00	0
GB	202303092	40	31.68	69	11.52	11	1.13	0.10	0.00	0
GB	202303093	40	30.80	69	6.60	1	0.09	0.01	0.00	0
GB	202303094	40	31.30	69	2.70	11	0.83	0.10	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	202303095	40	34.28	69	0.44	4	0.34	0.05	0.00	0
GB	202303096	40	36.25	69	3.36	15	1.25	0.20	0.00	0
GB	202303097	40	35.30	69	7.67	44	3.80	0.50	0.01	0
GB	202303098	40	34.79	69	11.13	118	9.18	1.25	0.02	0
GB	202303099	40	35.02	69	18.75	1	0.05	0.01	0.00	0
GB	202303100	40	35.63	69	22.58	0	0.00	0.00	0.00	0
GB	202303101	40	36.91	69	18.55	0	0.00	0.00	0.00	0
GB	202303102	40	36.43	69	14.55	11	1.17	0.10	0.00	0
GB	202303103	40	37.71	69	11.08	30	2.47	0.35	0.01	0
GB	202303104	40	36.79	69	7.70	81	7.36	1.00	0.02	0
GB	202303105	40	38.68	69	4.27	64	5.73	0.80	0.01	0
GB	202303106	40	39.76	69	7.02	46	4.44	0.50	0.01	0
GB	202303107	40	37.74	69	15.18	5	0.55	0.10	0.00	0
GB	202303108	40	39.49	69	17.48	0	0.00	0.00	0.00	0
GB	202303109	40	38.35	69	19.33	0	0.00	0.00	0.00	0
GB	202303110	40	39.05	69	22.83	0	0.00	0.00	0.00	0
GB	202303112	40	41.30	69	14.20	17	1.30	0.20	0.00	0
GB	202303113	40	41.79	69	10.69	97	8.58	1.20	0.02	0
GB	202303114	40	42.98	69	4.60	138	14.23	2.00	0.03	0
GB	202303115	40	41.13	69	0.11	67	7.04	1.10	0.01	0
GB	202303116	40	44.26	69	1.66	4	0.38	0.10	0.00	0
GB	202303117	40	46.62	69	3.85	71	6.06	1.00	0.01	0
GB	202303118	40	44.56	69	5.99	19	1.93	0.30	0.00	0
GB	202303119	40	46.34	69	7.79	213	13.93	2.00	0.04	0
GB	202303120	40	45.75	69	11.80	19	1.88	0.25	0.00	0
GB	202303121	40	43.59	69	12.84	55	5.45	0.80	0.01	0
GB	202303122	40	44.31	69	17.33	74	7.50	1.00	0.02	0
GB	202303123	40	47.12	69	19.06	49	4.25	0.75	0.01	0
GB	202303124	40	47.11	69	15.18	20	2.00	0.25	0.00	0
GB	202303125	40	49.41	69	13.99	1	0.04	0.01	0.00	0
GB	202303126	40	48.84	69	11.77	79	5.47	0.80	0.02	0
GB	202303127	40	48.51	69	8.12	32	3.51	0.50	0.01	0
GB	202303128	40	49.12	69	3.25	41	3.91	0.60	0.01	0
GB	202303129	40	41.88	68	29.30	1	0.08	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	202303130	40	37.66	68	26.25	64	6.27	0.90	0.01	0
GB	202303131	40	34.60	68	22.83	180	11.40	1.70	0.03	0
GB	202303132	40	31.86	68	18.76	0	0.00	0.00	0.00	0
GB	202303133	40	36.33	68	9.91	24	1.22	0.25	0.00	0
GB	202303134	40	40.66	68	9.66	12	0.90	0.20	0.00	0
GB	202303135	40	49.34	68	8.94	1	0.08	0.01	0.00	0
GB	202303136	40	47.53	68	5.00	30	3.73	0.20	0.01	0
GB	202303137	40	41.39	67	58.44	135	10.09	1.50	0.03	0
GB	202303138	40	38.01	68	2.86	21	1.25	0.20	0.00	0
GB	202303139	40	36.86	67	55.17	71	4.75	0.80	0.01	0
GB	202303140	40	34.23	68	2.93	1	0.05	0.01	0.00	0
GB	202303141	40	32.26	67	59.56	3	0.17	0.01	0.00	0
GB	202303142	40	35.25	67	49.92	38	1.79	0.30	0.01	0
GB	202303143	40	38.56	67	48.47	78	5.06	0.80	0.02	0
GB	202303144	40	40.45	67	53.17	199	14.29	1.80	0.04	0
GB	202303145	40	47.53	67	56.11	63	7.09	1.00	0.01	0
GB	202303146	40	50.98	67	58.95	2	0.24	0.01	0.00	0
GB	202303147	40	54.97	67	51.85	2	0.19	0.01	0.00	0
GB	202303148	40	54.46	67	46.74	21	2.82	0.30	0.00	0
GB	202303149	40	51.41	67	41.49	40	3.40	0.30	0.01	0
GB	202303150	40	48.12	67	44.41	26	2.22	0.30	0.00	0
GB	202303151	40	42.26	67	45.36	80	6.27	0.90	0.02	0
GB	202303152	40	43.06	67	40.72	46	3.26	0.40	0.01	0
GB	202303153	40	37.84	67	43.69	37	2.35	0.40	0.01	0
GB	202303154	40	49.96	67	35.58	79	5.68	0.80	0.01	0
GB	202303155	40	52.25	67	32.25	88	6.62	1.00	0.02	0
GB	202303156	40	54.72	67	30.38	98	7.91	1.10	0.02	0
GB	202303157	41	1.42	67	39.43	5	0.61	0.10	0.00	0
GB	202303158	41	0.63	67	31.32	51	6.20	0.90	0.01	0
GB	202303159	40	55.85	67	26.82	76	5.91	0.80	0.01	0
GB	202303160	40	50.21	67	25.31	199	11.90	1.90	0.04	0
GB	202303161	40	47.49	67	28.68	116	6.27	0.90	0.02	0
GB	202303162	40	41.49	67	29.95	91	5.97	0.90	0.02	0
GB	202303163	40	37.81	67	28.36	22	1.25	0.20	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	202303164	40	35.46	67	23.50	2	0.08	0.01	0.00	0
GB	202303165	40	37.02	67	19.87	0	0.00	0.00	0.00	0
GB	202303166	40	40.23	67	22.97	0	0.00	0.00	0.00	0
GB	202303167	40	42.84	67	16.74	0	0.00	0.00	0.00	0
GB	202303168	40	47.82	67	19.13	93	5.56	0.90	0.02	0
GB	202303169	40	52.62	67	21.78	218	13.07	1.90	0.04	0
GB	202303170	40	55.81	67	20.87	199	13.53	1.90	0.04	0
GB	202303171	40	51.17	67	17.47	1529	90.24	14.80	0.29	0
GB	202303172	40	48.12	67	15.17	26	1.66	0.25	0.00	0
GB	202303173	40	43.49	67	13.57	1	0.06	0.01	0.00	0
GB	202303174	40	39.41	67	12.36	1	0.04	0.01	0.00	0
GB	202303176	40	45.48	67	1.37	0	0.00	0.00	0.00	0
GB	202303177	40	46.72	67	8.43	0	0.00	0.00	0.00	0
GB	202303178	40	49.47	67	6.85	283	18.91	3.00	0.06	0
GB	202303179	40	56.07	67	7.54	546	36.47	6.00	0.10	0
GB	202303180	40	52.80	67	1.69	1765	97.61	20.60	0.34	0
GB	202303181	40	50.40	66	59.12	16	0.90	0.20	0.00	0
GB	202303182	40	50.65	66	53.46	0	0.00	0.00	0.00	0
GB	202303183	40	49.69	66	50.15	0	0.00	0.00	0.00	0
GB	202303184	40	51.73	66	47.91	0	0.00	0.00	0.00	0
GB	202303185	40	52.08	66	44.19	1	0.05	0.01	0.00	0
GB	202303186	40	54.45	66	53.07	1629	87.32	16.25	0.31	0
GB	202303187	40	54.99	66	58.45	348	24.69	4.25	0.07	0
GB	202303188	40	58.34	67	2.14	143	10.82	1.90	0.03	0
GB	202303189	41	1.88	67	9.91	99	10.27	1.20	0.02	0
GB	202303190	41	3.43	67	14.25	16	1.48	0.25	0.00	0
GB	202303191	41	5.46	67	24.16	8	0.69	0.05	0.00	0
GB	202303192	41	7.94	67	28.76	0	0.00	0.00	0.00	0
GB	202303193	41	11.42	67	19.70	1	0.07	0.01	0.00	0
GB	202303194	41	8.22	67	19.93	2	0.22	0.01	0.00	0
GB	202303195	41	7.07	67	14.79	7	0.80	0.05	0.00	0
GB	202303196	41	7.02	67	9.89	47	4.90	0.50	0.01	0
GB	202303197	41	4.10	67	7.32	36	3.33	0.25	0.01	0
GB	202303198	41	2.85	67	2.12	81	6.67	1.00	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	202303199	41	0.17	66	58.83	90	7.07	0.90	0.02	0
GB	202303200	40	55.86	66	51.05	293	23.08	3.00	0.06	0
GB	202303201	40	56.48	66	47.68	507	31.66	5.10	0.10	0
GB	202303202	40	57.07	66	44.27	34	1.72	0.25	0.01	0
GB	202303203	40	58.99	66	49.81	255	21.27	2.40	0.05	0
GB	202303204	41	2.09	66	57.13	102	8.57	1.40	0.02	0
GB	202303205	41	6.19	67	5.10	12	1.25	0.20	0.00	0
GB	202303206	41	9.35	67	3.26	45	4.25	0.50	0.01	0
GB	202303207	41	7.33	67	1.05	46	4.58	0.60	0.01	0
GB	202303208	41	6.81	66	54.91	68	6.96	0.80	0.01	0
GB	202303209	41	4.13	66	52.46	117	10.60	1.20	0.02	0
GB	202303210	41	1.46	66	44.81	137	11.11	1.30	0.03	0
GB	202303211	40	57.68	66	40.25	2	0.13	0.01	0.00	0
GB	202303212	40	58.26	66	35.82	0	0.00	0.00	0.00	0
GB	202303213	41	0.89	66	30.16	0	0.00	0.00	0.00	0
GB	202303214	41	1.71	66	33.47	7	0.34	0.05	0.00	0
GB	202303215	41	1.88	66	37.70	2654	162.08	24.00	0.50	0
GB	202303216	41	4.86	66	40.44	365	27.90	3.25	0.07	0
GB	202303217	41	6.11	66	43.51	92	8.09	0.90	0.02	0
GB	202303218	41	7.56	66	46.41	64	5.93	0.80	0.01	0
GB	202303219	41	10.39	66	50.93	18	2.03	0.20	0.00	0
GB	202303220	41	12.61	66	59.52	5	0.70	0.05	0.00	0
GB	202303221	41	12.68	67	8.09	0	0.00	0.00	0.00	0
GB	202303222	41	13.76	67	11.88	0	0.00	0.00	0.00	0
GB	202303223	41	15.60	67	5.81	1	0.09	0.01	0.00	0
GB	202303224	41	19.28	67	7.27	0	0.00	0.00	0.00	0
GB	202303225	41	18.26	67	3.07	0	0.00	0.00	0.00	0
GB	202303226	41	15.79	66	50.44	56	7.53	1.00	0.01	0
GB	202303227	41	14.72	66	47.31	54	6.79	0.90	0.01	0
GB	202303228	41	10.36	66	42.32	75	7.36	1.00	0.01	0
GB	202303229	41	6.79	66	36.34	1790	121.15	16.80	0.36	0
GB	202303230	41	7.08	66	33.30	282	22.30	3.40	0.05	0
GB	202303231	41	8.30	66	27.27	5	0.37	0.10	0.00	0
GB	202303232	41	9.32	66	30.03	389	29.04	4.40	0.07	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	202303233	41	11.17	66	34.23	546	41.04	6.30	0.11	0
GB	202303234	41	14.28	66	37.41	86	7.63	1.10	0.02	0
GB	202303235	41	14.16	66	42.88	53	6.53	0.80	0.01	0
GB	202303236	41	17.03	66	40.81	92	9.43	1.20	0.02	0
GB	202303237	41	19.51	66	48.40	43	5.17	0.70	0.01	0
GB	202303238	41	19.57	66	52.41	7818	364.71	87.60	1.50	0
GB	202303239	41	22.29	66	47.57	14	1.47	0.20	0.00	0
GB	202303240	41	20.78	66	42.99	20	2.03	0.25	0.00	0
GB	202303241	41	20.45	66	37.44	310	24.71	3.25	0.06	0
GB	202303242	41	18.93	66	33.39	64	4.67	0.75	0.01	0
GB	202303243	41	13.63	66	27.94	195	14.81	1.90	0.04	0
GB	202303244	41	11.64	66	25.36	0	0.00	0.00	0.00	0
GB	202303245	41	15.26	66	25.04	427	33.55	5.00	0.08	0
GB	202303246	41	19.52	66	30.73	1086	77.20	10.30	0.21	0
GB	202303247	41	21.96	66	29.11	2798	181.62	31.50	0.53	0
GB	202303248	41	25.06	66	31.02	317	24.36	3.00	0.06	0
GB	202303249	41	22.04	66	33.36	477	34.55	4.50	0.09	0
GB	202303250	41	24.67	66	40.43	44	4.58	0.80	0.01	0
GB	202303251	41	28.88	66	37.56	97	9.80	1.20	0.02	0
GB	202303252	41	28.21	66	43.18	114	13.15	1.70	0.02	0
GB	202303253	41	25.81	66	45.63	59	6.70	1.20	0.01	0
GB	202303254	41	26.41	66	49.73	9	0.81	0.20	0.00	0
GB	202303255	41	28.45	66	55.06	2	0.25	0.10	0.00	0
GB	202303256	41	25.24	66	58.04	0	0.00	0.00	0.00	0
GB	202303257	41	22.93	67	3.62	1	0.08	0.10	0.00	0
GB	202303258	41	24.72	67	6.37	0	0.00	0.00	0.00	0
GB	202303259	41	26.72	67	3.89	2	0.19	0.10	0.00	0
GB	202304001	40	32.40	68	57.75	16	1.43	0.15	0.00	0
GB	202304002	40	28.45	68	58.62	6	0.46	0.05	0.00	0
GB	202304003	40	27.27	68	55.22	19	1.63	0.15	0.00	0
GB	202304004	40	25.99	68	59.80	2	0.18	0.01	0.00	0
GB	202304005	40	18.98	68	58.16	2	0.11	0.01	0.00	0
GB	202304006	40	23.57	68	53.73	135	8.99	1.15	0.03	0
GB	202304007	40	22.48	68	49.62	78	4.80	0.80	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	202304008	40	26.36	68	45.02	92	7.90	1.00	0.02	0
GB	202304009	40	31.17	68	44.19	28	2.72	0.20	0.01	0
GB	202304010	40	32.96	68	40.82	29	3.21	0.40	0.01	0
GB	202304011	40	28.32	68	34.70	110	6.82	1.10	0.02	0
GB	202304012	40	24.32	68	31.49	5	0.27	0.05	0.00	0
GB	202304013	40	34.59	68	30.04	19	1.79	0.20	0.00	0
GB	202304014	40	37.61	68	29.74	4	0.41	0.01	0.00	0
GB	202304015	40	38.37	68	38.34	5	0.55	0.01	0.00	0
GB	202304016	40	41.33	68	54.22	1	0.10	0.01	0.00	0
GB	202304017	40	43.36	68	48.24	1	0.09	0.01	0.00	0
GB	202304018	40	45.40	68	44.20	0	0.00	0.00	0.00	0
GB	202304019	40	48.19	68	48.51	0	0.00	0.00	0.00	0
GB	202304020	40	47.42	68	55.63	3	0.34	0.05	0.00	0
GB	202304022	40	52.11	69	2.46	14	1.43	0.10	0.00	0
GB	202304023	40	51.21	69	6.50	54	4.90	0.80	0.01	0
GB	202304024	40	51.02	69	15.79	135	15.45	1.75	0.03	0
GB	202304025	40	52.74	69	11.74	62	6.94	0.90	0.01	0
GB	202304026	40	53.02	69	2.55	4	0.22	0.05	0.00	0
GB	202304027	40	54.64	68	57.01	3	0.30	0.01	0.00	0
GB	202304028	41	5.01	68	57.25	51	4.53	0.80	0.01	0
GB	202304029	41	3.30	69	0.90	106	7.25	1.15	0.02	0
GB	202304030	41	1.48	69	4.59	58	7.08	1.05	0.01	0
GB	202304031	41	0.81	69	6.98	172	13.18	1.90	0.03	0
GB	202304032	40	59.73	69	11.17	8	0.70	0.10	0.00	0
GB	202304033	40	57.70	69	14.75	64	7.29	1.00	0.01	0
GB	202304034	41	0.28	69	17.33	190	22.84	2.90	0.04	0
GB	202304035	41	0.04	69	12.15	5	0.50	0.05	0.00	0
GB	202304036	41	4.47	69	8.55	306	21.95	3.00	0.06	0
GB	202304037	41	5.53	69	15.50	351	26.16	3.50	0.07	0
GB	202304038	41	6.58	69	22.79	33	5.36	0.80	0.01	0
GB	202304039	41	10.43	69	25.10	297	52.57	7.80	0.06	0
GB	202304040	41	10.19	69	21.16	165	18.06	2.30	0.03	0
GB	202304041	41	7.40	69	12.05	114	14.99	1.75	0.02	0
GB	202304042	41	7.24	69	7.33	62	4.83	0.80	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	202304043	41	9.19	69	1.64	6135	260.17	57.00	1.16	0
GB	202304044	41	10.48	68	57.16	116	7.93	1.25	0.02	0
GB	202304045	41	10.78	69	5.50	81	7.74	1.25	0.02	0
GB	202304046	41	11.14	69	14.27	3	0.25	0.01	0.00	0
GB	202304047	40	51.41	68	44.93	0	0.00	0.00	0.00	0
GB	202304048	40	54.16	68	49.58	0	0.00	0.00	0.00	0
GB	202304049	40	55.47	68	44.23	0	0.00	0.00	0.00	0
GB	202304050	40	57.79	68	44.82	0	0.00	0.00	0.00	0
GB	202304051	40	57.18	68	48.08	0	0.00	0.00	0.00	0
GB	202304052	41	1.04	68	50.61	0	0.00	0.00	0.00	0
GB	202304053	41	2.45	68	46.33	0	0.00	0.00	0.00	0
GB	202304054	41	6.64	68	40.71	0	0.00	0.10	0.00	0
GB	202304055	41	8.03	68	46.77	154	15.26	2.20	0.03	0
GB	202304056	41	12.34	68	46.77	20	2.57	0.25	0.00	0
GB	202304057	41	12.69	68	53.61	68	6.51	0.90	0.01	0
GB	202304059	41	16.46	68	51.34	4064	135.22	34.60	0.78	0
GB	202304060	41	16.16	68	41.00	36	4.71	0.60	0.01	0
GB	202304061	41	17.63	68	33.42	0	0.00	0.00	0.00	0
GB	202304062	41	20.77	68	35.21	56	7.59	1.20	0.01	0
GB	202304064	41	27.18	68	40.63	315	16.20	2.60	0.06	0
GB	202304066	41	26.21	68	31.88	107	10.18	1.50	0.02	0
GB	202304067	41	26.35	68	24.97	8	0.87	0.10	0.00	0
GB	202304068	41	30.62	68	26.35	6	0.83	0.10	0.00	0
GB	202304069	41	32.12	68	28.31	33	3.26	0.50	0.01	0
GB	202304070	41	31.14	68	22.28	0	0.00	0.00	0.00	0
GB	202304071	41	35.44	68	24.10	1	0.12	0.01	0.00	0
GB	202304072	41	38.36	68	27.17	10	1.03	0.20	0.00	0
GB	202304073	41	39.38	68	25.50	1	0.23	0.01	0.00	0
GB	202304074	41	44.32	68	20.72	53	5.11	0.90	0.01	0
GB	202304075	41	48.40	68	14.39	19	1.78	0.20	0.00	0
GB	202304076	41	46.49	68	11.35	13	1.74	0.30	0.00	0
GB	202304077	41	47.91	68	6.64	2	0.20	0.01	0.00	0
GB	202304078	41	50.15	68	6.54	48	2.87	0.50	0.01	0
GB	202304079	41	49.94	68	1.87	67	6.69	1.00	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	202304080	41	52.70	68	2.30	132	7.06	1.30	0.03	0
GB	202304081	41	54.17	67	59.09	88	5.55	0.90	0.02	0
GB	202304082	41	53.42	67	55.68	58	5.62	0.90	0.01	0
GB	202304083	41	57.20	67	47.51	7	0.70	0.01	0.00	0
GB	202304085	42	0.53	67	44.12	93	6.56	1.10	0.02	0
GB	202304086	42	1.77	67	39.73	9	0.90	0.10	0.00	0
GB	202304087	42	1.38	67	36.60	9	0.97	0.10	0.00	0
GB	202304088	42	0.72	67	35.64	55	3.45	0.70	0.01	0
GB	202304089	41	57.83	67	30.23	253	21.19	4.00	0.05	0
GB	202304090	41	56.52	67	26.62	3	0.29	0.05	0.00	0
GB	202304091	41	53.55	67	26.94	6	0.42	0.05	0.00	0
GB	202304092	41	58.14	67	22.29	12	1.05	0.10	0.00	0
GB	202304093	42	4.16	67	21.59	428	34.50	5.00	0.08	0
GB	202304094	42	7.12	67	18.22	3276	472.82	87.00	0.62	0
GB	202304095	42	7.36	67	13.93	5908	730.59	100.00	1.16	0
GB	202304096	42	7.43	67	8.29	2377	294.41	94.00	0.46	0
GB	202304097	42	5.05	67	6.63	3103	217.71	61.00	0.63	0
GB	202304098	42	5.73	67	8.81	6804	612.74	118.00	1.31	0
GB	202304099	42	6.09	67	14.10	124	16.33	2.80	0.02	0
GB	202304100	42	4.21	67	12.76	2211	175.44	31.50	0.43	0
GB	202304101	42	3.55	67	15.99	2821	265.76	42.00	0.55	0
GB	202304102	41	57.60	67	17.99	45	3.85	1.00	0.01	0
GB	202304103	41	54.26	67	17.19	0	0.00	0.00	0.00	0
GB	202304104	41	53.52	67	13.77	0	0.00	0.00	0.00	0
GB	202304105	41	52.30	67	12.71	0	0.00	0.00	0.00	0
GB	202304117	41	36.75	69	27.11	99	9.26	1.60	0.02	0
GB	202304118	41	38.37	69	33.29	96	10.94	1.90	0.02	0
GB	202304119	41	39.86	69	38.33	37	4.17	0.70	0.01	0
GB	202304120	41	38.45	69	41.12	241	18.33	2.60	0.05	0
GB	202304121	41	43.66	69	44.44	23	2.42	0.10	0.00	0
GB	202304124	42	1.04	69	55.72	46	5.32	0.80	0.01	0
GB	202304125	41	50.75	69	49.81	27	3.54	0.70	0.01	0
GB	202304126	41	45.17	69	50.10	105	18.63	2.00	0.02	0
GB	202304127	41	32.97	69	29.73	171	19.67	2.70	0.03	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	202304128	41	32.87	69	26.91	167	15.47	2.00	0.03	0
GB	202304129	41	33.43	69	24.47	64	7.67	1.20	0.01	0
GB	202304130	41	28.46	69	24.90	111	14.52	1.80	0.02	0
GB	202304131	41	29.75	69	18.05	0	0.00	1.40	0.00	0
GB	202304132	41	27.38	69	15.92	173	13.24	1.90	0.03	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 1-9. The spatial distribution of the nematode prevalence (percent of infected animals at a given station) by year for 2015-2023 is shown in Figure 9. From 2016-2023, 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). Since the decline in 2019 of proportion of infected scallops, the distribution of infected scallops has spread north. The ET has remained a consistent hot spot with a high proportion of infected scallops since 2019, while a new hot spot has emerged this year in the NYB-Closure. The number of infected scallops in the southern portion of the resource area declined in 2019 from the previous year, and has remained relatively consistent from 2020 to 2023. 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, New York Bight (NYB) 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 in 2023 and overall infections are occurring further north than in previous years.

In addition to monitoring nematode infected scallops, we also recorded the presence and severity of shell blister disease (Figures 10–11). 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. Overall infection rates have increased in 2023 for the northern SAMS Areas compared to 2022. The highest percentage of scallops with this disease in 2023 have been documented in the NYB, BI, and NYB Closure SAMS Areas. On Georges Bank, the percentage of scallops with shell blister disease increased in the NL South Deep SAMS Area in 2021 and 2022, but decreased in 2023. On eastern Georges the percentage of scallops with shell blister has remained low since 2019, with a slight increase in 2023. Overall, shell blister has been observed less frequently throughout Georges Bank.

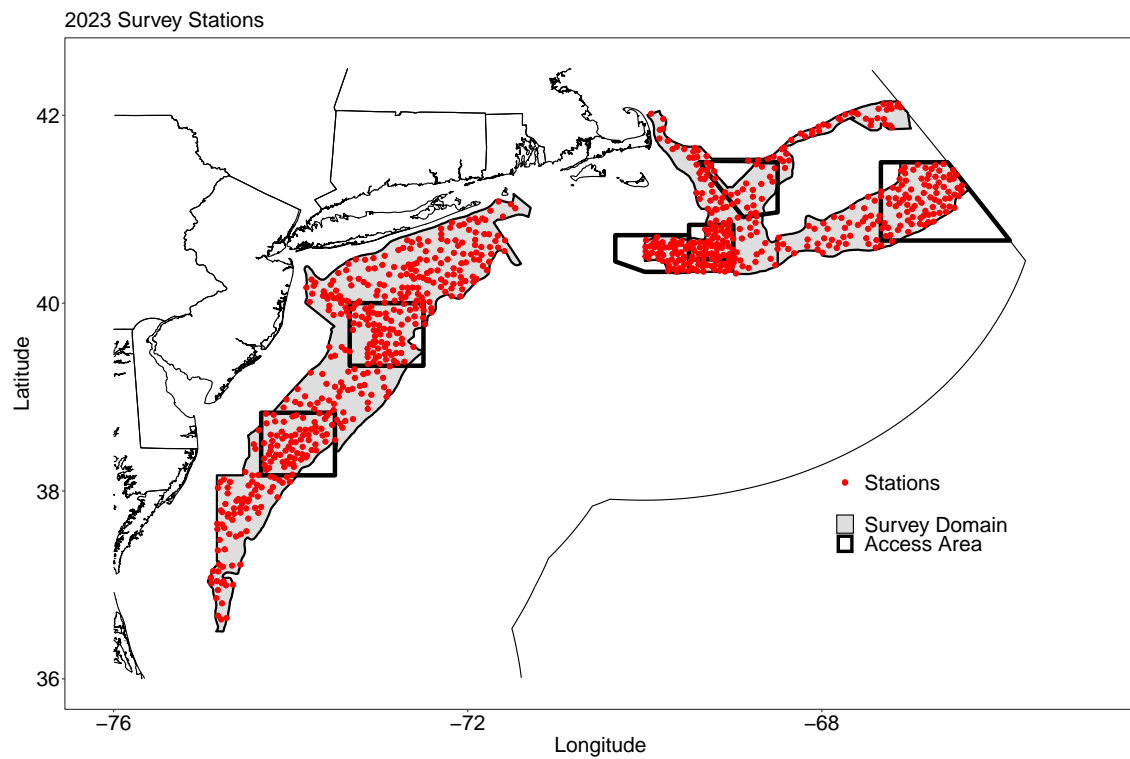


Figure 1: Survey domains with station locations for the VIMS/Industry cooperative surveys of the Mid-Atlantic Bight and Georges Bank sea scallop resource areas completed during May–July 2023.

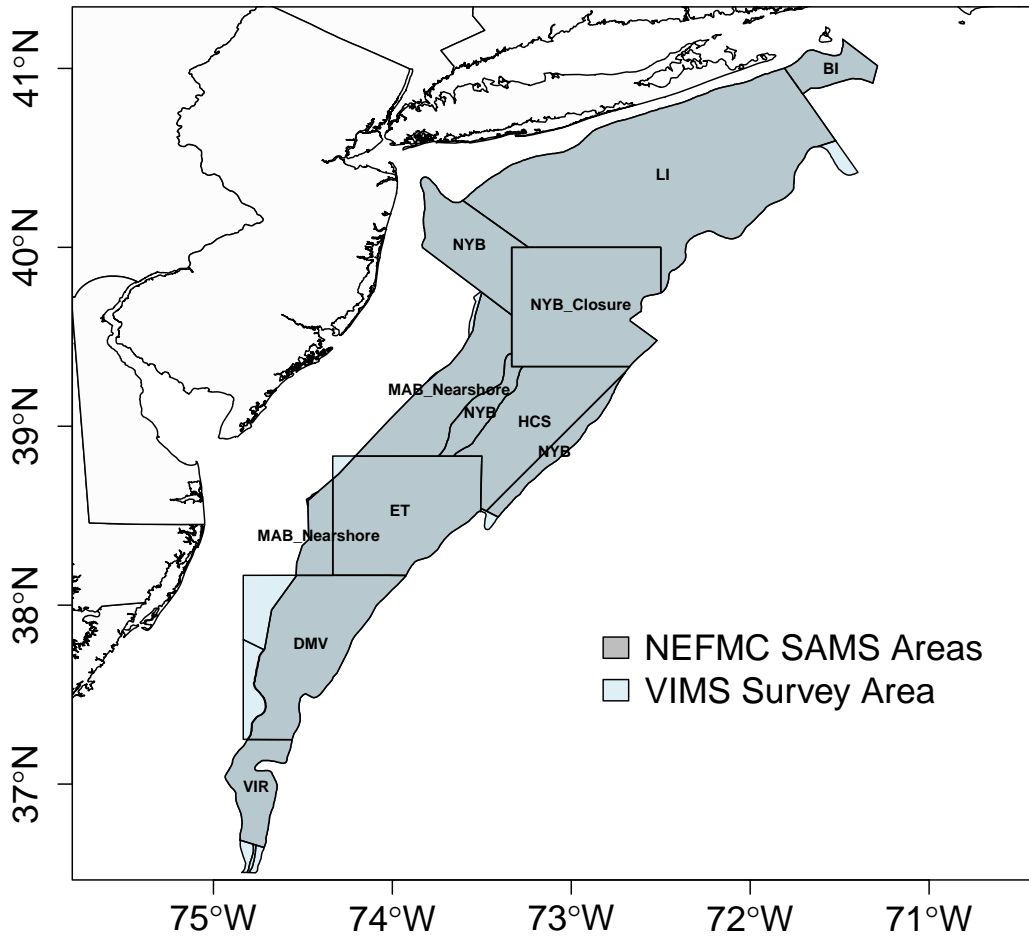


Figure 2: SAMS Areas used to calculate biomass estimates for the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource during May 2023.

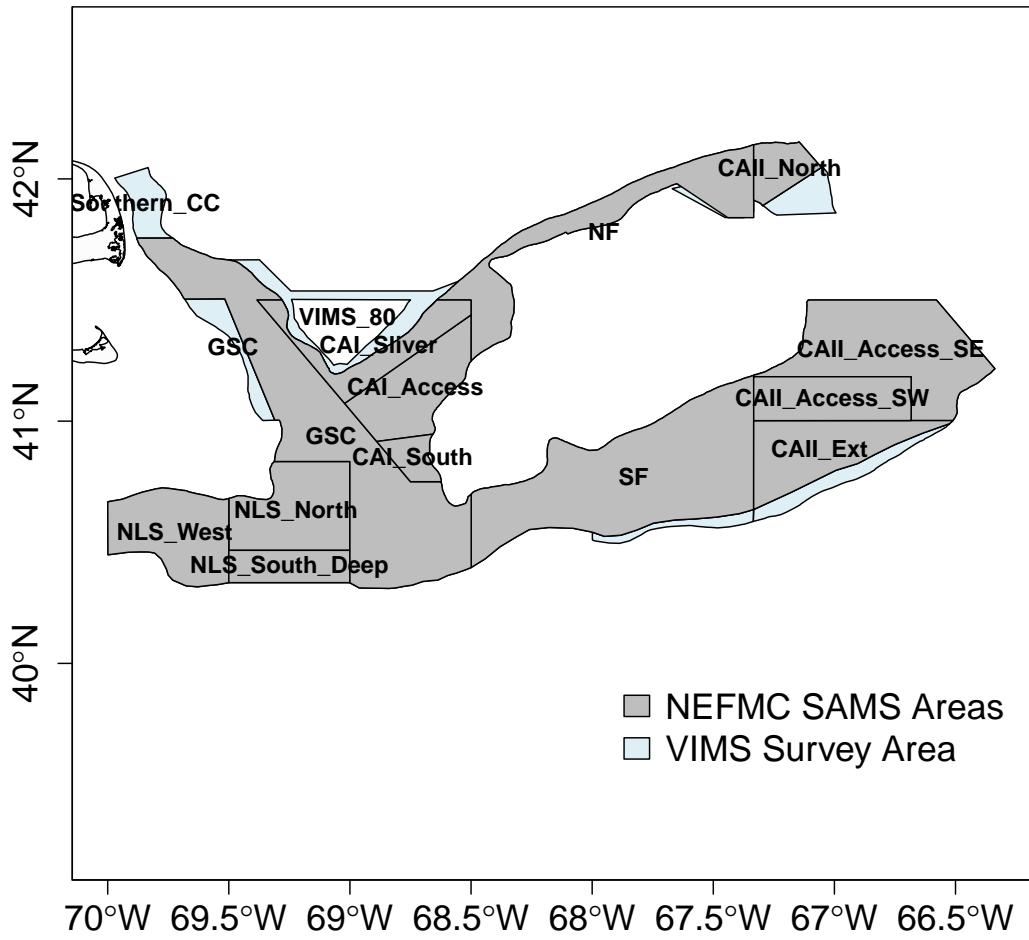


Figure 3: SAMS Areas used to calculate biomass estimates for the VIMS/Industry cooperative survey of the Georges Bank sea scallop resource during June-July 2023.

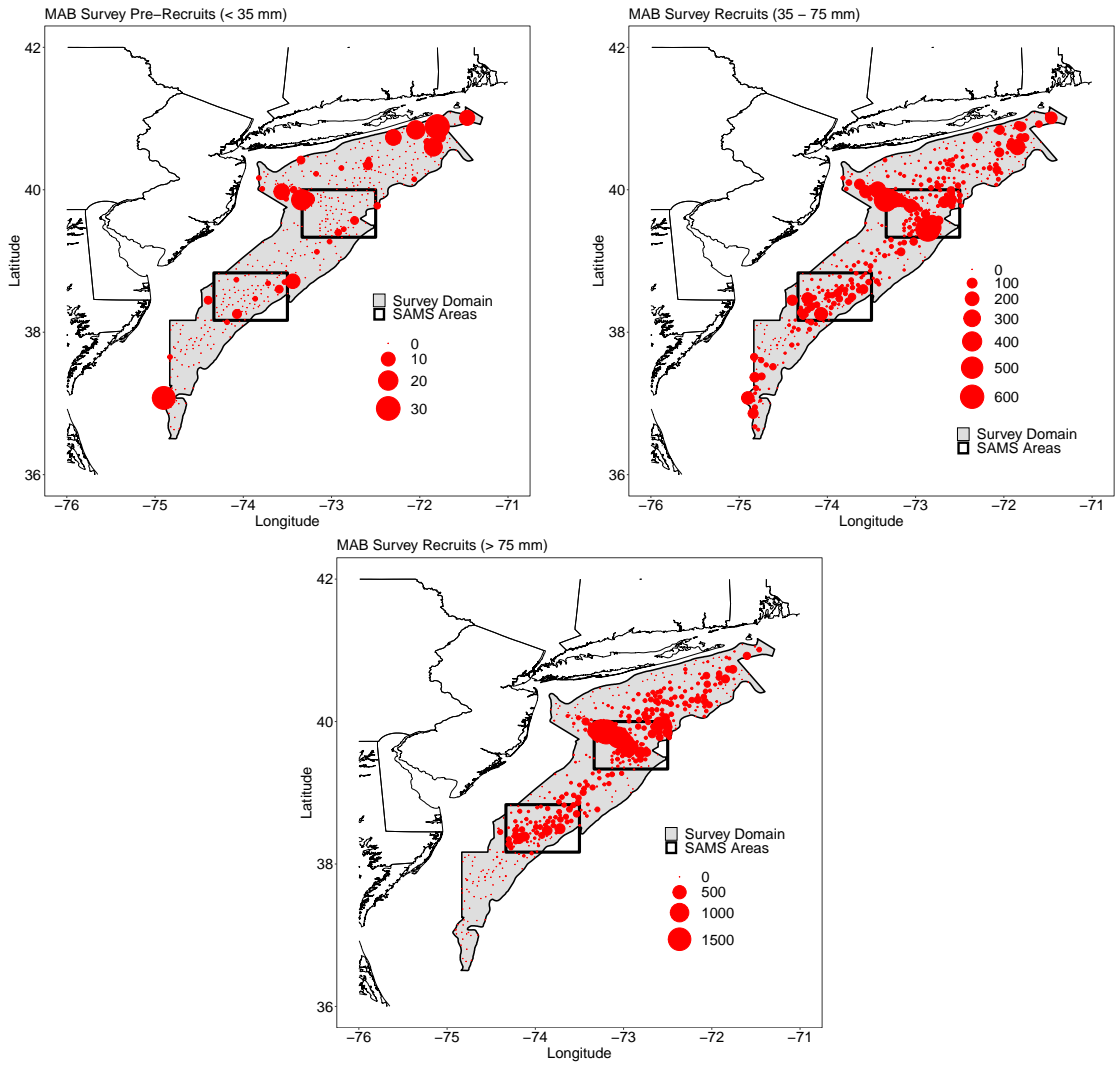


Figure 4: Number of scallops <35 mm, 35–75 mm, and >75 mm caught in the NMFS survey dredge during the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource during May 2023.

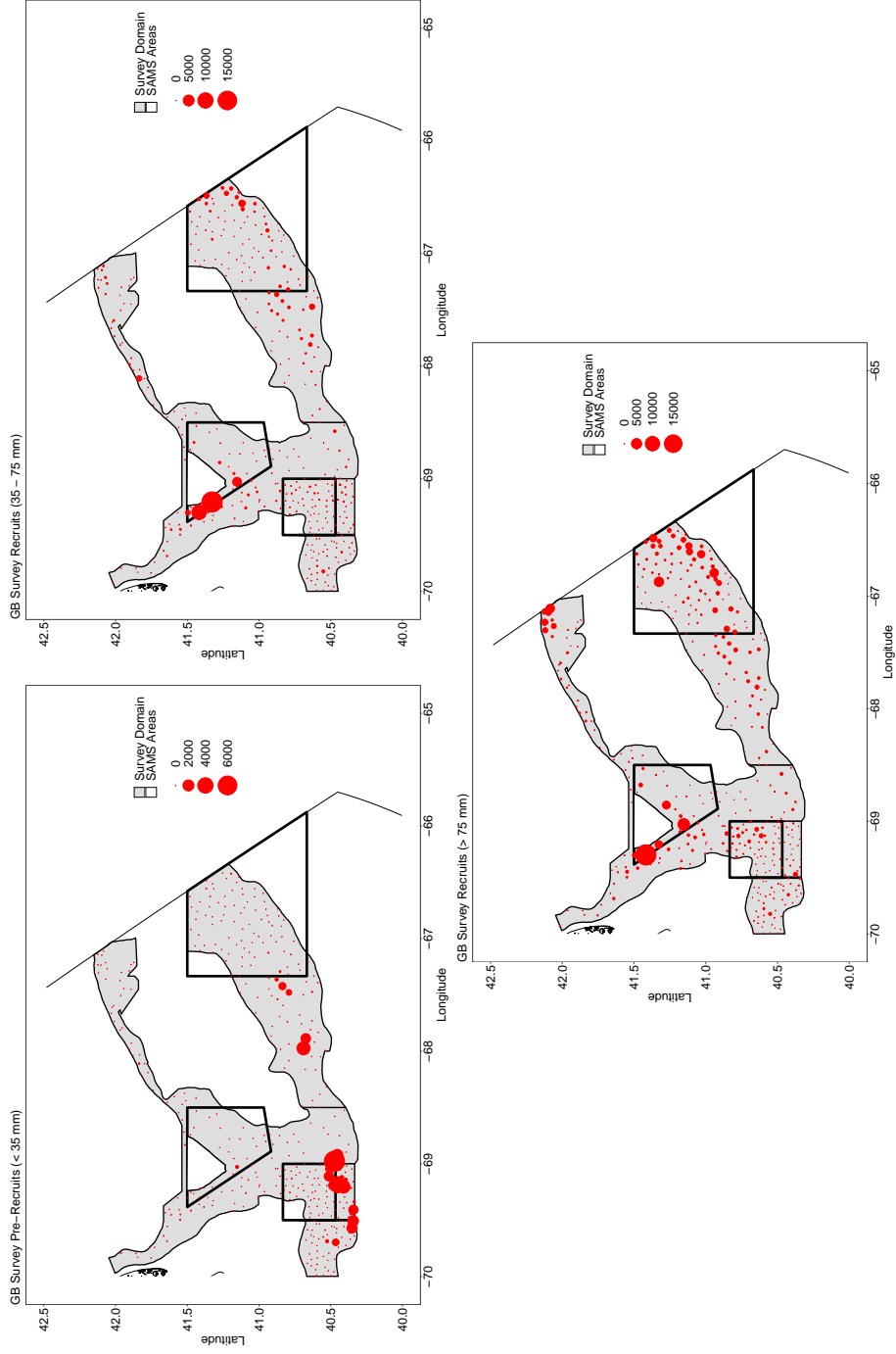


Figure 5: Number of scallops <35 mm, 35–75 mm, and >75 mm caught in the NMFS survey dredge during the VIMS/Industry cooperative survey of the Georges Bank sea scallop resource during June–July 2023.

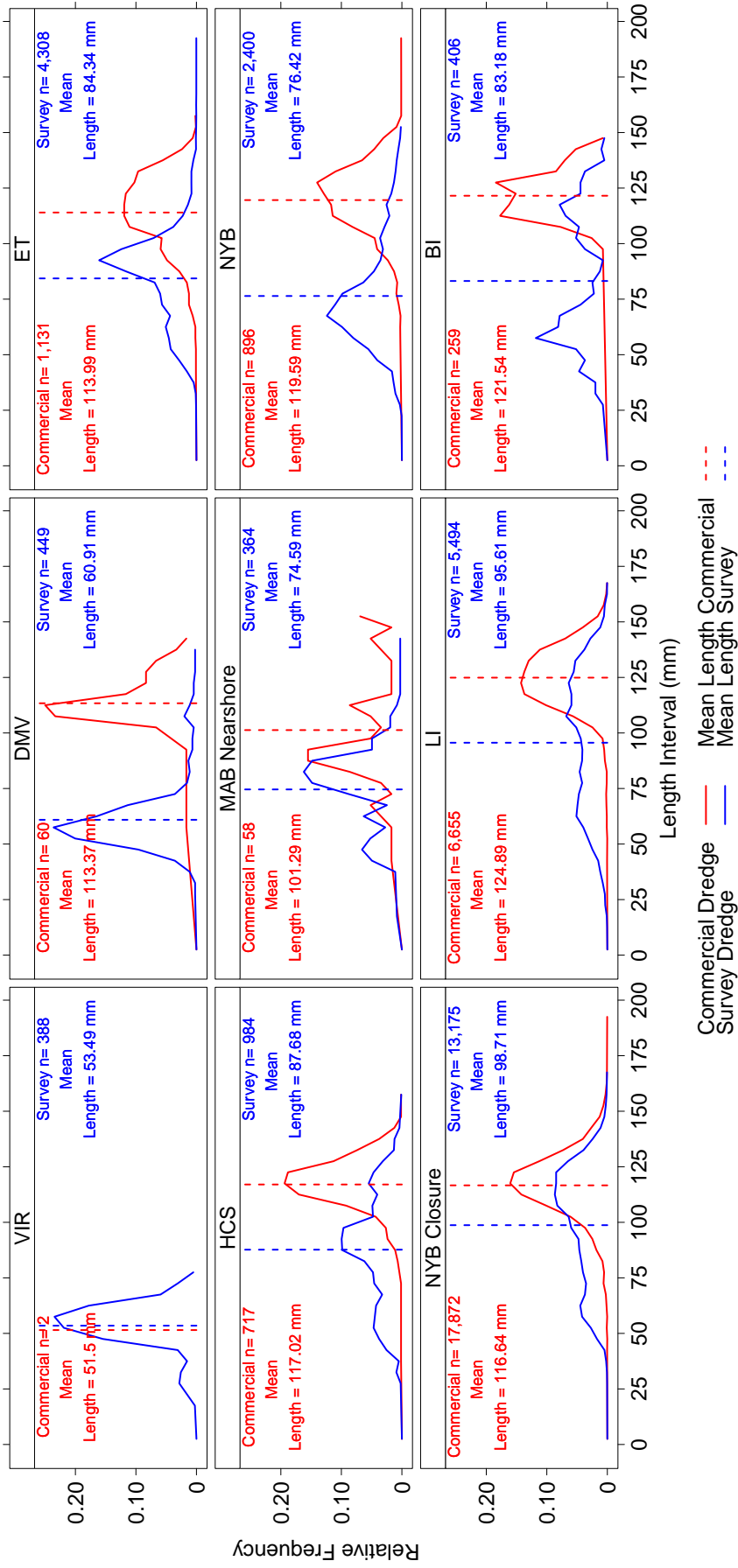


Figure 6: Scallop length frequency distributions generated from catch data obtained from both the survey and commercial dredges during the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource area in May 2023 by SAMS Area. Number of scallops (n) measured and mean length by gear are also included.

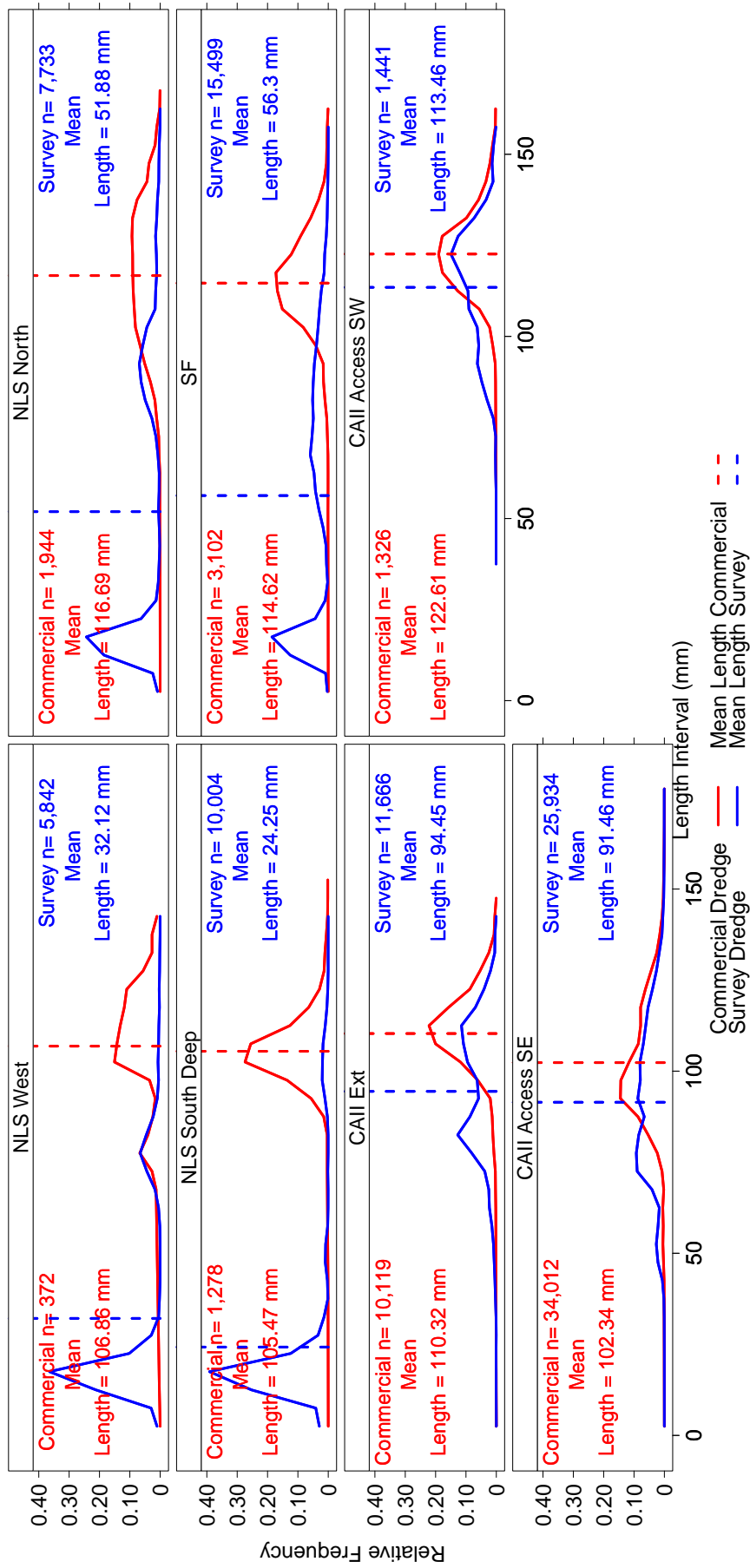


Figure 7: Scallop length frequency distributions generated from catch data obtained from both the survey and commercial dredges during the VIMS/Industry cooperative survey of portions of the Georges Bank sea scallop resource area in June 2023 by SAMS Area. Number of scallops (n) measured and mean length by gear are also included.

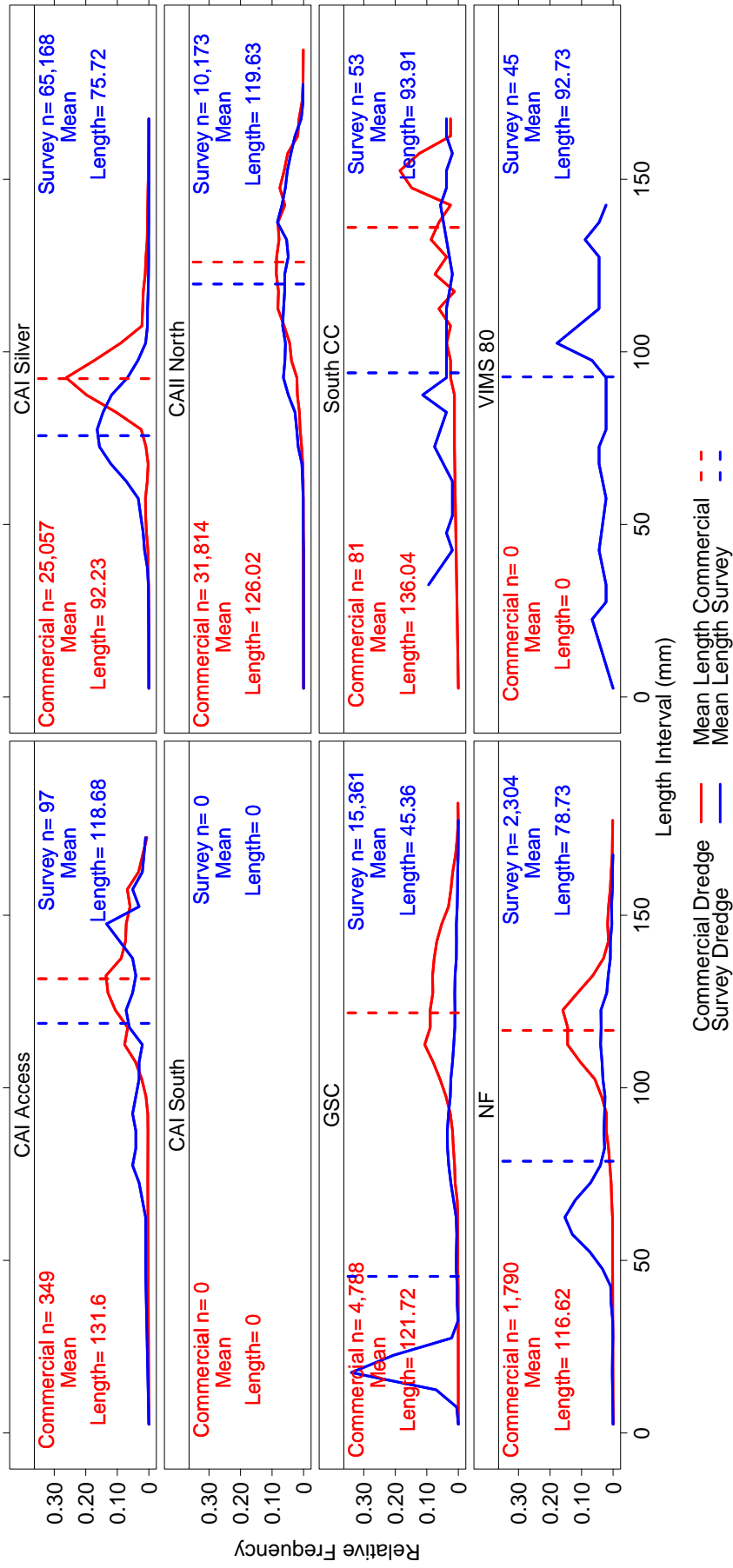


Figure 8: Scallop length frequency distributions generated from catch data obtained from both the survey and commercial dredges during the VIMS/Industry cooperative survey of additional portions of the Georges Bank sea scallop resource area in July 2023 by SAMS Area. Number of scallops (n) measured and mean length by gear are also included.

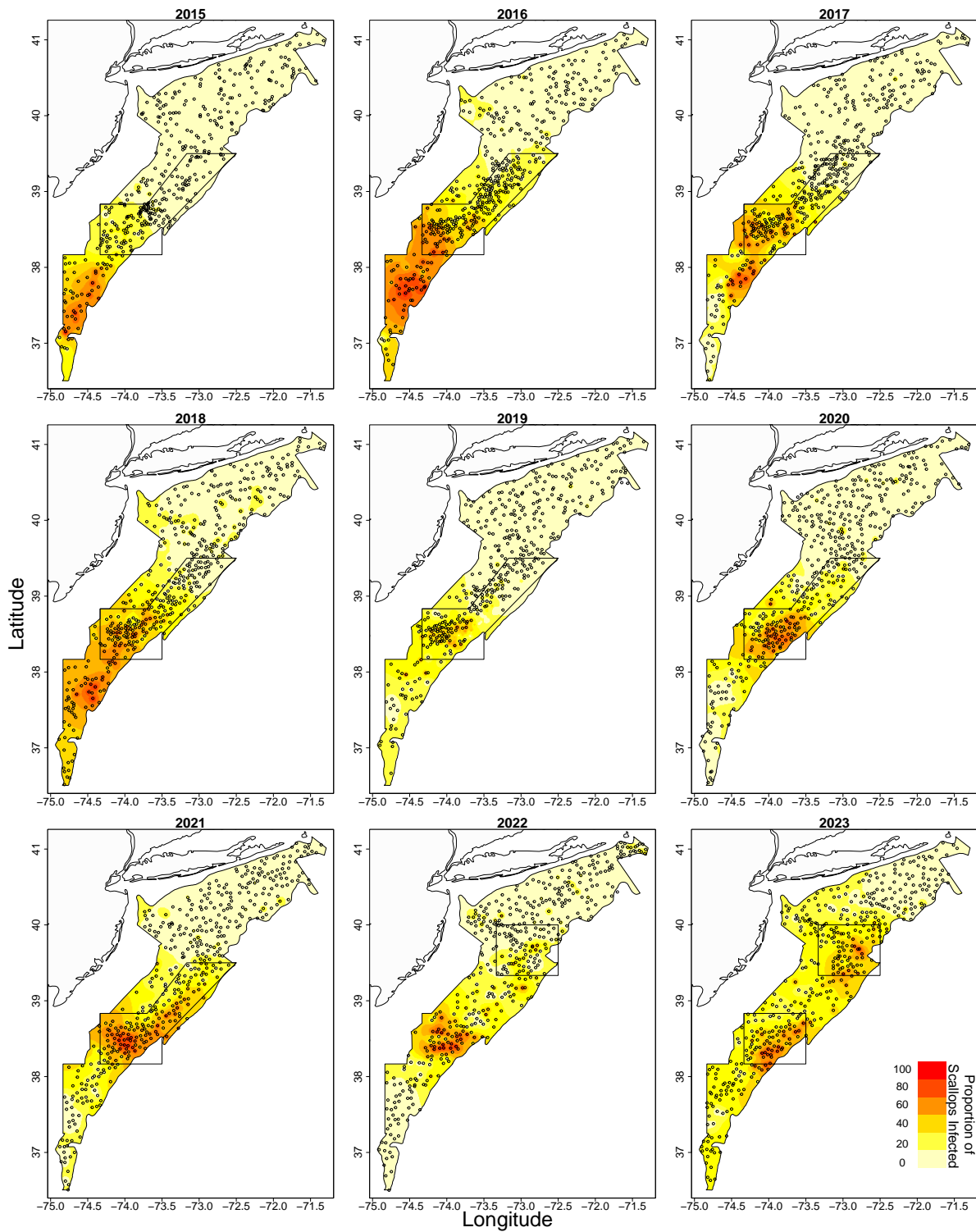


Figure 9: Proportion of scallops infected with nematodes for 2015-2023 in the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource area.

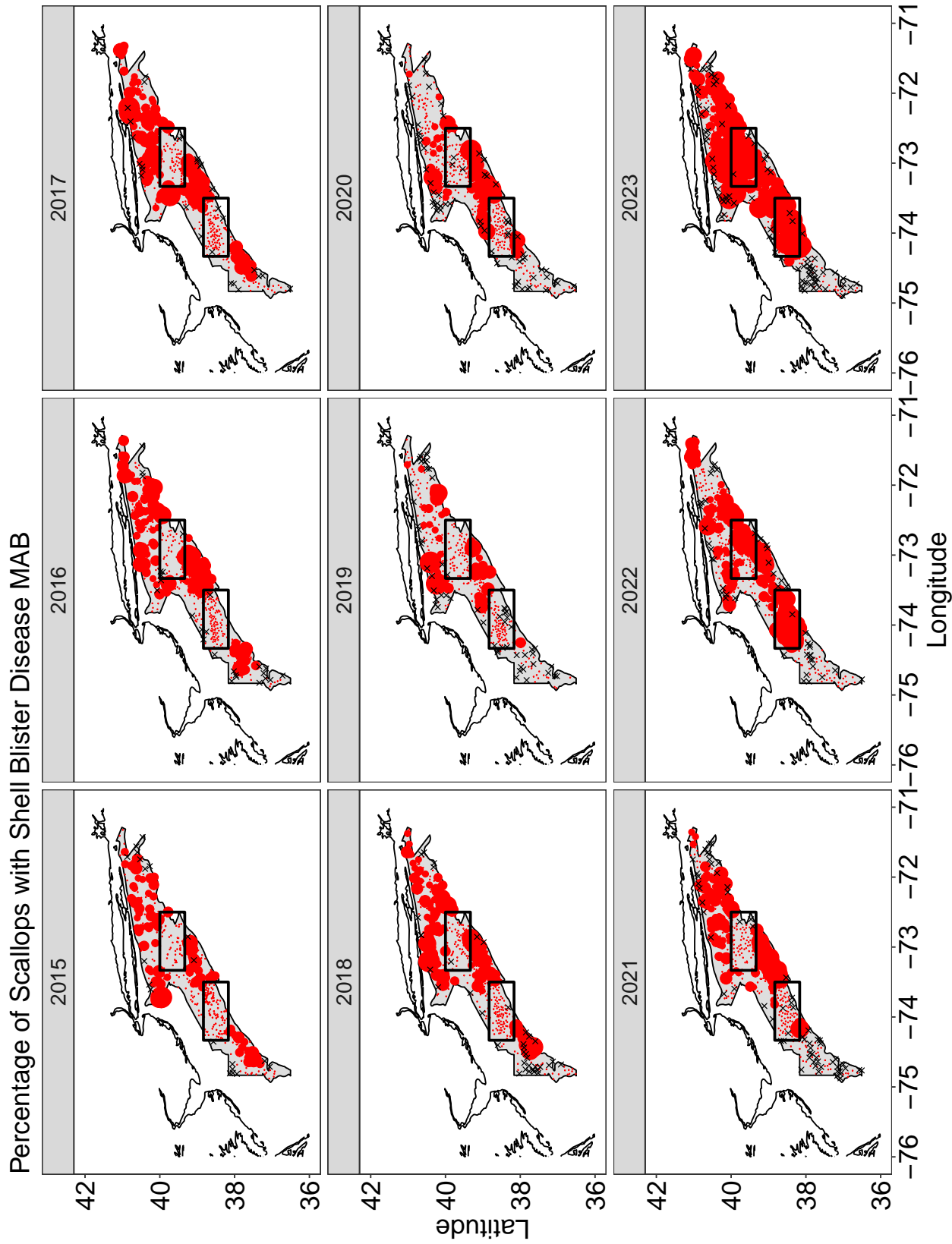


Figure 10: Proportion of scallops infected with shell blister disease for 2015-2023 in the VIMS/Industry cooperative survey of the Mid-Atlantic Bight sea scallop resource area.

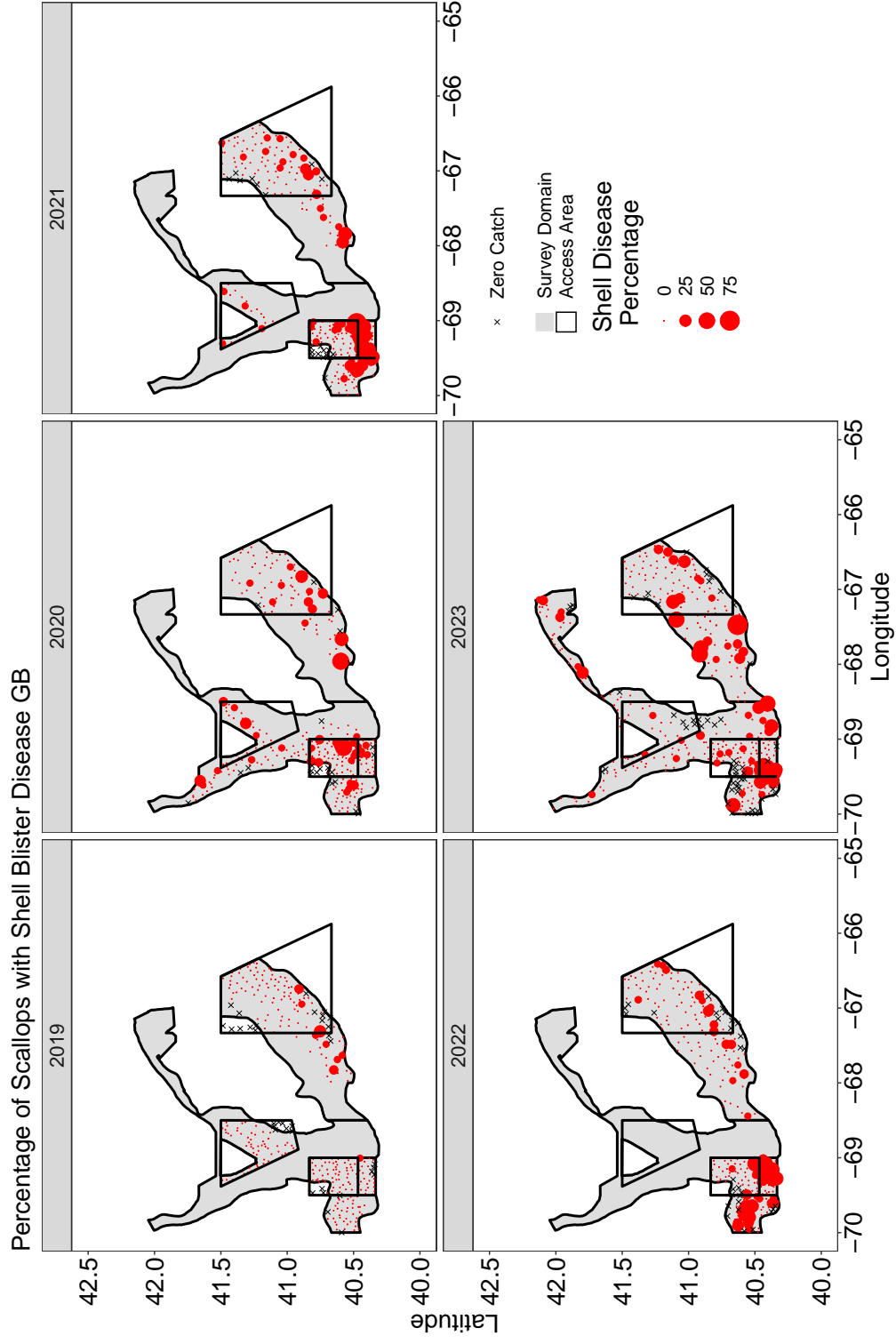


Figure 11: Proportion of scallops infected with shell blister disease for 2019-2023 in the VIMS/Industry cooperative survey of portions of the Georges Bank sea scallop resource area.