

Resource Survey Report

Atlantic Surfclam/Ocean Quahog



Delmarva Peninsula – Georges Bank

3 August – 18 August 2016

F/V *E.S.S. Pursuit*

NOAA Fisheries Service

Northeast Fisheries Science Center

Woods Hole, MA 02543



The F/V *E.S.S. Pursuit* leaves
New Bedford harbor



Ocean quahogs (*Arctica islandica*)
to be weighed and measured



A scientist sorts the catch
on the deck of the *Pursuit*

RESOURCE SURVEY REPORT

Catch Summary

NOAA Fisheries Service
Northeast Fisheries Science Center

Atlantic Surfclam - Ocean Quahog Survey

Delmarva Peninsula – Georges Bank

3 August – 18 August 2016

The 2016 region-wide survey for Atlantic surfclam, *Spisula solidissima*; and ocean quahog, *Arctica islandica*, was conducted in continental shelf waters from the Great South Channel to Georges Bank aboard the F/V *E.S.S. Pursuit*. The survey, conducted by the Northeast Fisheries Science Center, provides indices of abundance and recruitment for both species.

The following charts and station data describe the distribution of surf clams and ocean quahogs during the survey. Five-minute tows were made at the speed of 3.0 knots, scope of 2:1, and with a commercial style hydraulic dredge equipped with a 13-foot wide cutting blade and a surface supplied manifold positioned on the forward end of the dredge. Survey stations were randomly selected to provide unbiased abundance measurements. Therefore, these stations were not always on or near known locations of clam concentrations.

In this report, catch quantity is recorded in numbers of clams, while depth is recorded in fathoms. Percent estimates of surf clams are also given by four categories of shell height: between 0” to 4.75”, 4.76” to 5.00”, 5.01” to 5.50”, and greater than 5.50”. Distribution plots indicate relative numbers of surf clams and ocean quahogs caught on each tow.

The data are now summarized from audited catch files generated from the Fisheries Scientific Computer System (FSCS).

For further information, contact Vic Nordahl (508-495-2334), NOAA Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report in PDF, go to the [Ecosystems Surveys Branch website](#):

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- Surfclam – Ocean Quahog Survey
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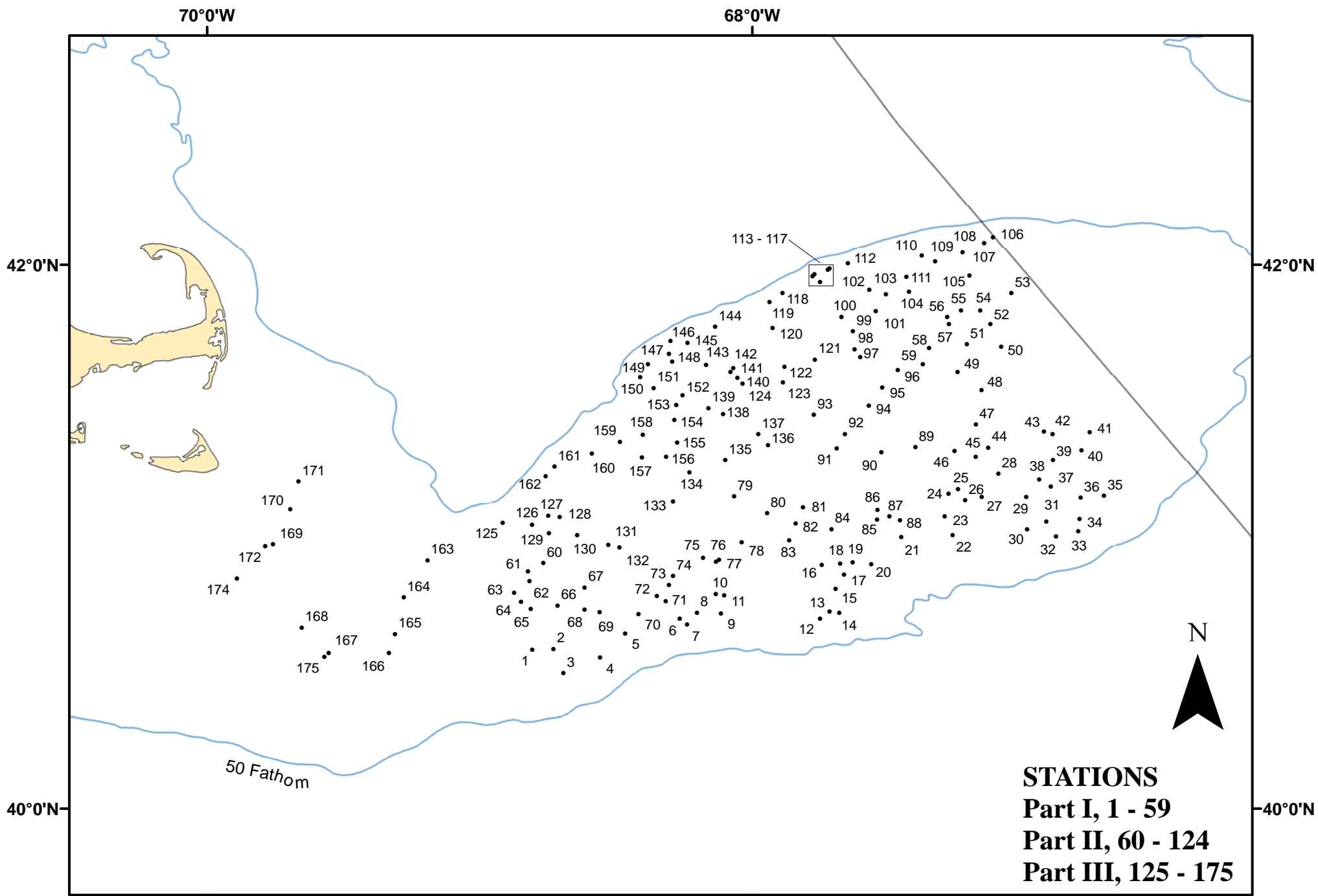


Figure 1. Dredge hauls made from F/V *E.S.S. Pursuit* during NOAA Fisheries Service, Northeast Fisheries Science Center's Surfclam / Ocean Quahog Survey, 3 August - 18 August 2016

2016 NOAA Fisheries Service Surf Clam -- Ocean Quahog Survey
R/V ESS PURSUIT August 03 - August 18

Station Data								Surf Clams					Ocean Quahogs	
Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Percent of Survey Catch				Catch Number		
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"	
46	0164	4046.6	6916.7	W13848.7	Y43567.2	0	30.6	0	0.0	0.0	0.0	0.0	0	
46	0165	4038.5	6918.6	W13889.0	Y43517.0	0	27.9	0	0.0	0.0	0.0	0.0	0	
46	0168	4039.9	6939.1	W13989.2	Y43543.0	0	26.8	0	0.0	0.0	0.0	0.0	60	
47	0163	4054.8	6911.4	W13789.6	Y43614.2	0	35.5	0	0.0	0.0	0.0	0.0	0	
47	0166	4034.3	6919.9	W13911.1	Y43490.8	0	31.7	0	0.0	0.0	0.0	0.0	1673	
47	0167	4034.4	6933.2	W13978.5	Y43501.8	0	32.8	0	0.0	0.0	0.0	0.0	426	
*	47	0175	4033.5	6934.1	W13986.4	Y43496.6	0	33.9	0	0.0	0.0	0.0	2546	
54	0125	4103.0	6854.9	W13672.8	Y43649.3	0	40.5	0	0.0	0.0	0.0	0.0	0	
54	0126	4102.6	6848.4	W13642.3	Y43640.8	0	32.3	0	0.0	0.0	0.0	0.0	0	
54	0127	4104.6	6844.9	W13616.6	Y43649.6	0	33.9	0	0.0	0.0	0.0	0.0	0	
54	0128	4104.3	6842.4	W13605.6	Y43645.5	0	35.5	2	100.0	0.0	0.0	0.0	1160	
54	0158	4122.4	6824.0	W13436.6	Y43732.7	0	33.9	2	100.0	0.0	0.0	0.0	1630	
54	0159	4120.8	6829.1	W13468.3	Y43728.7	0	37.2	0	0.0	0.0	0.0	0.0	2513	
54	0160	4118.3	6835.3	W13509.7	Y43720.5	0	36.1	0	0.0	0.0	0.0	0.0	1554	
54	0161	4115.4	6843.5	W13562.8	Y43711.9	0	39.4	0	0.0	0.0	0.0	0.0	1496	
54	0162	4113.2	6845.4	W13581.9	Y43700.9	0	69.0	0	0.0	0.0	0.0	0.0	85	
55	0001	4035.1	6848.4	W13752.7	Y43472.8	0	33.4	1	100.0	0.0	0.0	0.0	213	
55	0002	4035.2	6843.7	W13729.7	Y43470.1	0	32.8	0	0.0	0.0	0.0	0.0	490	
55	0060	4054.1	6845.9	W13665.3	Y43587.5	0	37.2	0	0.0	0.0	0.0	0.0	89	
55	0061	4052.3	6849.3	W13689.3	Y43579.4	0	38.3	0	0.0	0.0	0.0	0.0	0	
55	0062	4050.1	6849.0	W13696.7	Y43565.7	0	38.3	0	0.0	0.0	0.0	0.0	0	
55	0063	4047.6	6852.4	W13723.4	Y43553.2	0	35.0	0	0.0	0.0	0.0	0.0	0	
55	0064	4045.6	6850.9	W13724.0	Y43539.7	0	35.5	0	0.0	0.0	0.0	0.0	3339	
55	0065	4044.0	6848.7	W13719.6	Y43528.1	0	32.8	0	0.0	0.0	0.0	0.0	208	
55	0066	4044.8	6842.8	W13687.8	Y43528.4	0	35.5	0	0.0	0.0	0.0	0.0	11425	
55	0129	4100.8	6844.7	W13631.7	Y43626.7	0	36.1	0	0.0	0.0	0.0	0.0	51	
56	0003	4029.8	6841.5	W13739.8	Y43435.2	0	39.9	0	0.0	0.0	0.0	0.0	4395	
56	0004	4033.3	6833.4	W13688.2	Y43451.5	0	39.4	0	0.0	0.0	0.0	0.0	8880	
57	0005	4038.6	6827.9	W13641.7	Y43479.9	0	36.1	0	0.0	0.0	0.0	0.0	23124	
57	0006	4041.9	6815.9	W13572.9	Y43491.4	0	37.2	0	0.0	0.0	0.0	0.0	8190	
57	0008	4043.2	6812.1	W13550.3	Y43496.4	0	38.3	0	0.0	0.0	0.0	0.0	56832	
57	0010	4047.3	6808.0	W13514.8	Y43517.5	0	32.8	0	0.0	0.0	0.0	0.0	1083	
57	0011	4047.0	6806.1	W13507.4	Y43514.4	0	33.9	2	100.0	0.0	0.0	0.0	502	
57	0070	4042.8	6825.0	W13611.4	Y43503.1	0	31.7	12	100.0	0.0	0.0	0.0	438	
57	0076	4054.4	6807.9	W13484.7	Y43558.6	0	31.2	9	88.9	11.1	0.0	0.0	2160	
*	57	0077	4054.8	6807.3	W13480.3	Y43560.5	0	30.6	17	100.0	0.0	0.0	0.0	1320
58	0007	4040.6	6814.3	W13570.8	Y43482.6	0	41.0	0	0.0	0.0	0.0	0.0	9176	
58	0009	4043.0	6806.8	W13527.0	Y43491.6	0	40.5	0	0.0	0.0	0.0	0.0	23177	
59	0013	4043.5	6742.9	W13419.2	Y43478.6	0	38.8	0	0.0	0.0	0.0	0.0	696	
59	0015	4048.5	6741.6	W13392.8	Y43506.1	0	38.8	6	100.0	0.0	0.0	0.0	1745	
59	0016	4053.7	6744.6	W13383.7	Y43537.4	0	35.0	0	0.0	0.0	0.0	0.0	14696	
59	0017	4051.6	6739.8	W13371.9	Y43522.3	0	37.7	0	0.0	0.0	0.0	0.0	6647	
59	0018	4054.0	6740.6	W13365.1	Y43536.3	0	36.6	0	0.0	0.0	0.0	0.0	18130	
59	0019	4054.3	6737.8	W13351.7	Y43536.0	0	37.2	0	0.0	0.0	0.0	0.0	5610	
59	0020	4053.9	6733.8	W13336.3	Y43531.0	0	38.8	0	0.0	0.0	0.0	0.0	3304	
59	0021	4059.8	6727.2	W13282.7	Y43558.8	0	36.1	80	0.0	7.5	42.5	50.0	19392	
59	0022	4100.3	6715.9	W13233.4	Y43553.6	0	38.8	0	0.0	0.0	0.0	0.0	10896	

2016 NOAA Fisheries Service Surf Clam -- Ocean Quahog Survey
R/V ESS PURSUIT August 03 - August 18

Station Data								Surf Clams				Ocean Quahogs	
Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Percent of Survey Catch				Catch Number	
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"
59	0023	4104.4	6717.6	W13222.3	Y43576.9	0	33.9	0	0.0	0.0	0.0	0.0	5993
59	0085	4105.9	6732.4	W13277.9	Y43596.0	0	30.6	111	1.8	1.8	19.8	76.6	9843
59	0086	4103.7	6732.5	W13288.1	Y43584.1	0	32.8	75	0.0	0.0	14.7	85.3	7361
59	0087	4104.4	6729.8	W13273.5	Y43585.9	0	31.7	151	1.3	1.3	25.8	71.5	10740
59	0088	4103.6	6727.5	W13267.3	Y43579.8	0	32.3	14	35.7	0.0	21.4	42.9	9288
60	0012	4041.9	6745.0	W13435.0	Y43470.9	0	40.5	0	0.0	0.0	0.0	0.0	522
60	0014	4043.1	6740.8	W13411.8	Y43475.0	0	39.9	0	0.0	0.0	0.0	0.0	1000
61	0024	4109.4	6716.8	W13196.6	Y43603.1	0	30.6	0	0.0	0.0	0.0	0.0	11088
61	0025	4110.4	6714.7	W13183.4	Y43606.8	0	31.2	0	0.0	0.0	0.0	0.0	8959
61	0026	4108.0	6713.1	W13187.7	Y43592.8	0	31.7	0	0.0	0.0	0.0	0.0	10270
61	0027	4108.7	6709.4	W13169.4	Y43593.8	0	33.4	0	0.0	0.0	0.0	0.0	5364
61	0028	4113.9	6705.8	W13131.2	Y43618.6	0	33.9	0	0.0	0.0	0.0	0.0	9218
61	0029	4108.7	6659.7	W13130.4	Y43586.8	0	35.5	0	0.0	0.0	0.0	0.0	4979
61	0030	4101.6	6659.5	W13161.3	Y43549.3	0	37.2	0	0.0	0.0	0.0	0.0	670
61	0031	4103.3	6655.2	W13136.7	Y43555.4	0	38.3	0	0.0	0.0	0.0	0.0	784
61	0032	4100.0	6653.1	W13143.1	Y43536.6	0	39.4	0	0.0	0.0	0.0	0.0	378
61	0034	4103.9	6647.9	W13105.5	Y43553.6	0	40.5	0	0.0	0.0	0.0	0.0	3096
61	0036	4108.5	6647.7	W13084.2	Y43577.4	0	38.3	0	0.0	0.0	0.0	0.0	162
61	0037	4111.0	6654.2	W13098.2	Y43594.9	0	37.7	0	0.0	0.0	0.0	0.0	1412
61	0038	4112.5	6656.8	W13101.7	Y43604.6	0	36.6	0	0.0	0.0	0.0	0.0	966
61	0039	4116.9	6653.8	W13069.7	Y43625.1	0	37.2	0	0.0	0.0	0.0	0.0	1164
61	0040	4119.1	6647.5	W13035.0	Y43631.7	0	39.4	0	0.0	0.0	0.0	0.0	1980
61	0042	4122.6	6653.8	W13043.2	Y43654.4	0	37.2	0	0.0	0.0	0.0	0.0	2286
61	0043	4123.2	6655.8	W13048.3	Y43659.0	0	36.1	0	0.0	0.0	0.0	0.0	348
62	0033	4101.2	6648.2	W13118.7	Y43539.7	0	40.5	0	0.0	0.0	0.0	0.0	517
62	0035	4109.0	6642.5	W13061.9	Y43576.4	0	42.1	0	0.0	0.0	0.0	0.0	1532
62	0041	4123.0	6645.7	W13009.9	Y43650.2	0	40.5	0	0.0	0.0	0.0	0.0	5362
65	0106	4206.0	6706.9	W12879.7	Y43882.5	0	29.5	15	26.7	6.7	20.0	46.7	8
65	0112	4200.3	6738.9	W13043.7	Y43887.9	0	28.4	0	0.0	0.0	0.0	0.0	162
65	0113	4159.2	6742.9	W13067.0	Y43886.7	0	29.0	0	0.0	0.0	0.0	0.0	1328
65	0114	4157.9	6746.3	W13088.8	Y43883.8	0	31.2	2	100.0	0.0	0.0	0.0	4580
* 65	0116	4158.9	6743.3	W13070.3	Y43885.6	0	29.5	0	0.0	0.0	0.0	0.0	1458
* 65	0117	4157.4	6746.7	W13093.2	Y43881.7	0	31.2	69	88.4	11.6	0.0	0.0	4048
65	0118	4153.7	6753.3	W13141.8	Y43869.9	0	30.6	0	0.0	0.0	0.0	0.0	42350
65	0119	4151.7	6756.2	W13165.1	Y43862.6	0	31.2	20	65.0	30.0	5.0	0.0	6720
65	0144	4146.2	6808.1	W13247.6	Y43846.6	0	25.7	149	20.8	34.2	38.9	6.0	140
65	0146	4143.2	6818.0	W13309.1	Y43841.3	0	31.7	2	50.0	0.0	50.0	0.0	2994
67	0147	4140.3	6818.3	W13324.8	Y43826.0	0	25.2	123	5.7	4.9	4.9	84.6	26
67	0149	4138.0	6822.9	W13357.9	Y43818.4	0	9.3	31	87.1	9.7	3.2	0.0	0
67	0150	4135.2	6824.6	W13379.5	Y43804.8	0	28.4	1088	39.0	28.3	27.9	4.8	8
67	0151	4132.7	6821.7	W13377.5	Y43787.9	0	23.0	2172	11.6	7.2	40.3	40.9	252
67	0153	4129.0	6816.7	W13371.2	Y43762.3	0	27.9	29	24.1	6.9	20.7	48.3	378
67	0156	4117.6	6818.9	W13434.2	Y43700.7	0	29.5	0	0.0	0.0	0.0	0.0	138
67	0157	4117.5	6824.2	W13459.8	Y43705.1	0	29.5	0	0.0	0.0	0.0	0.0	1032
68	0123	4134.1	6753.2	W13238.5	Y43766.7	0	20.2	104	3.8	6.7	39.4	50.0	0
68	0124	4133.7	6802.1	W13280.9	Y43773.3	0	19.7	46	6.5	23.9	52.2	17.4	0
68	0138	4127.1	6806.4	W13332.0	Y43741.6	0	24.1	0	0.0	0.0	0.0	0.0	0

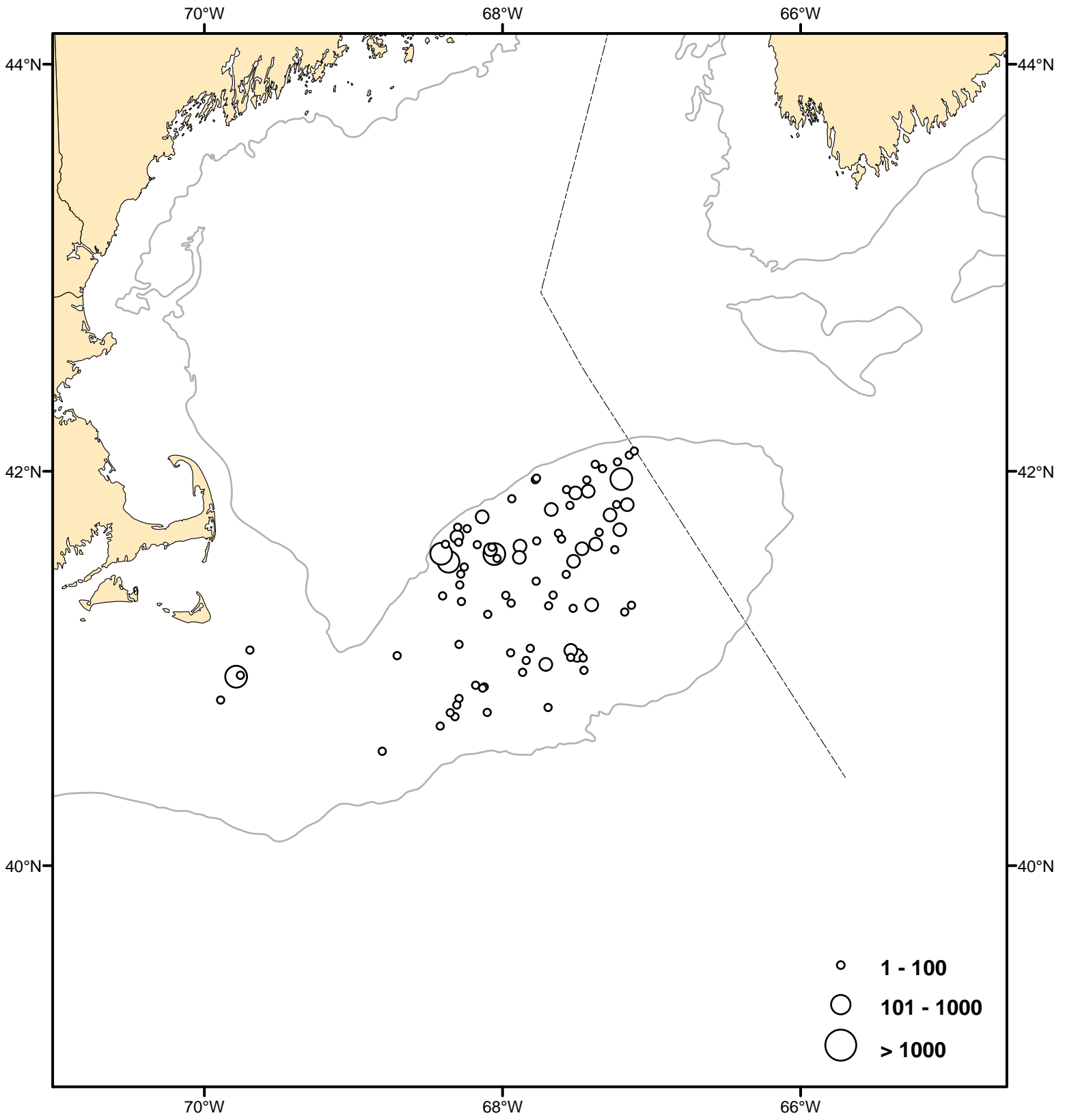
2016 NOAA Fisheries Service Surf Clam -- Ocean Quahog Survey
R/V ESS PURSUIT August 03 - August 18

Station Data								Surf Clams				Ocean Quahogs	
Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Percent of Survey Catch				Catch Number	
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"
68	0139	4128.3	6809.6	W13341.2	Y43751.3	0	25.2	0	0.0	0.0	0.0	0.0	0
68	0140	4135.1	6803.2	W13279.2	Y43782.0	0	20.2	2488	8.8	12.2	53.9	25.1	0
68	0141	4136.4	6804.8	W13280.3	Y43790.6	0	20.2	436	13.8	8.3	30.3	47.7	0
68	0142	4137.1	6804.1	W13273.7	Y43793.7	0	19.7	7	28.6	14.3	14.3	42.9	0
68	0143	4137.9	6810.1	W13297.7	Y43804.2	0	14.2	37	56.8	8.1	21.6	13.5	0
68	0145	4142.7	6814.2	W13293.6	Y43834.5	0	15.3	4	50.0	0.0	50.0	0.0	12
68	0148	4138.6	6817.6	W13329.7	Y43816.0	0	24.6	13	7.7	7.7	15.4	69.2	3
68	0152	4131.1	6815.3	W13354.7	Y43772.5	0	19.1	42	35.7	11.9	16.7	35.7	2
68	0154	4125.7	6817.1	W13388.5	Y43744.4	0	26.2	1	100.0	0.0	0.0	0.0	74
68	0155	4120.7	6816.5	W13408.8	Y43715.8	0	29.0	2	0.0	0.0	0.0	100.0	392
69	0079	4108.8	6804.0	W13404.5	Y43637.6	0	25.2	0	0.0	0.0	0.0	0.0	0
69	0080	4105.1	6756.7	W13387.8	Y43610.7	0	22.4	1	100.0	0.0	0.0	0.0	0
69	0090	4118.7	6731.5	W13216.0	Y43664.5	0	20.8	16	6.2	6.2	12.5	75.0	0
69	0091	4119.4	6741.4	W13255.5	Y43676.7	0	20.8	3	66.7	0.0	33.3	0.0	8
69	0092	4122.6	6739.6	W13232.8	Y43692.4	0	20.2	10	20.0	40.0	20.0	20.0	0
69	0093	4126.9	6746.4	W13242.5	Y43721.6	0	20.2	5	20.0	0.0	60.0	20.0	0
69	0131	4058.2	6831.7	W13579.7	Y43600.0	0	28.4	0	0.0	0.0	0.0	0.0	0
69	0132	4057.6	6829.2	W13570.4	Y43594.3	0	24.6	0	0.0	0.0	0.0	0.0	0
69	0133	4107.7	6817.4	W13471.3	Y43642.9	0	21.3	23	82.6	8.7	4.3	4.3	0
69	0134	4114.1	6813.8	W13426.1	Y43676.1	0	21.3	0	0.0	0.0	0.0	0.0	0
69	0135	4116.8	6805.9	W13377.3	Y43684.1	0	23.5	15	13.3	0.0	13.3	73.3	0
69	0136	4120.2	6756.5	W13318.9	Y43694.4	0	20.2	11	45.5	45.5	9.1	0.0	0
69	0137	4122.6	6758.6	W13317.3	Y43709.5	0	20.2	22	31.8	4.5	36.4	27.3	0
70	0067	4048.7	6836.9	W13643.9	Y43547.5	0	30.6	0	0.0	0.0	0.0	0.0	1580
70	0068	4043.8	6836.9	W13663.6	Y43517.9	0	31.2	0	0.0	0.0	0.0	0.0	100
70	0069	4043.3	6833.6	W13649.9	Y43512.4	0	30.6	0	0.0	0.0	0.0	0.0	32
70	0071	4045.7	6819.0	W13571.8	Y43516.1	0	31.7	1	100.0	0.0	0.0	0.0	747
70	0072	4046.9	6821.0	W13576.2	Y43524.6	0	31.7	1	100.0	0.0	0.0	0.0	14352
70	0073	4049.3	6818.3	W13553.8	Y43536.8	0	28.4	1	100.0	0.0	0.0	0.0	85
70	0074	4051.2	6817.4	W13541.8	Y43547.3	0	27.3	3	100.0	0.0	0.0	0.0	1092
70	0075	4055.3	6810.8	W13494.1	Y43566.1	0	30.1	21	76.2	9.5	9.5	4.8	5073
70	0078	4058.7	6802.3	W13440.9	Y43579.0	0	25.7	0	0.0	0.0	0.0	0.0	89
70	0081	4106.5	6748.8	W13346.5	Y43612.2	0	25.2	2	100.0	0.0	0.0	0.0	0
70	0082	4102.8	6750.4	W13369.9	Y43592.8	0	26.2	7	14.3	42.9	28.6	14.3	86
70	0083	4059.2	6751.8	W13391.7	Y43573.7	0	26.2	38	42.1	5.3	18.4	34.2	2050
70	0084	4101.6	6742.5	W13340.4	Y43580.0	0	30.1	159	6.3	4.4	20.8	68.6	13680
70	0130	4100.3	6838.5	W13603.6	Y43618.2	0	29.0	0	0.0	0.0	0.0	0.0	24
71	0105	4157.6	6712.1	W12944.5	Y43846.7	0	29.5	1330	22.6	10.0	40.0	27.4	1
71	0107	4204.8	6708.9	W12894.0	Y43878.7	0	27.3	35	80.0	20.0	0.0	0.0	0
71	0108	4202.7	6713.7	W12924.6	Y43873.4	0	24.6	97	52.6	27.8	18.6	1.0	0
71	0109	4200.7	6719.7	W12959.8	Y43869.7	0	24.6	11	63.6	27.3	9.1	0.0	0
71	0110	4202.0	6722.7	W12965.5	Y43879.2	0	25.2	26	69.2	23.1	7.7	0.0	0
72	0098	4141.3	6737.4	W13133.5	Y43789.2	0	24.1	39	43.6	12.8	20.5	23.1	0
72	0099	4145.2	6737.8	W13115.9	Y43809.8	0	20.2	0	0.0	0.0	0.0	0.0	0
72	0100	4148.4	6740.3	W13110.8	Y43828.8	0	17.5	466	26.0	21.0	38.6	14.4	0
72	0101	4149.7	6732.8	W13071.6	Y43827.9	0	19.1	34	35.3	29.4	20.6	14.7	0
72	0102	4154.4	6734.2	W13053.8	Y43853.2	0	16.4	12	83.3	0.0	8.3	8.3	0

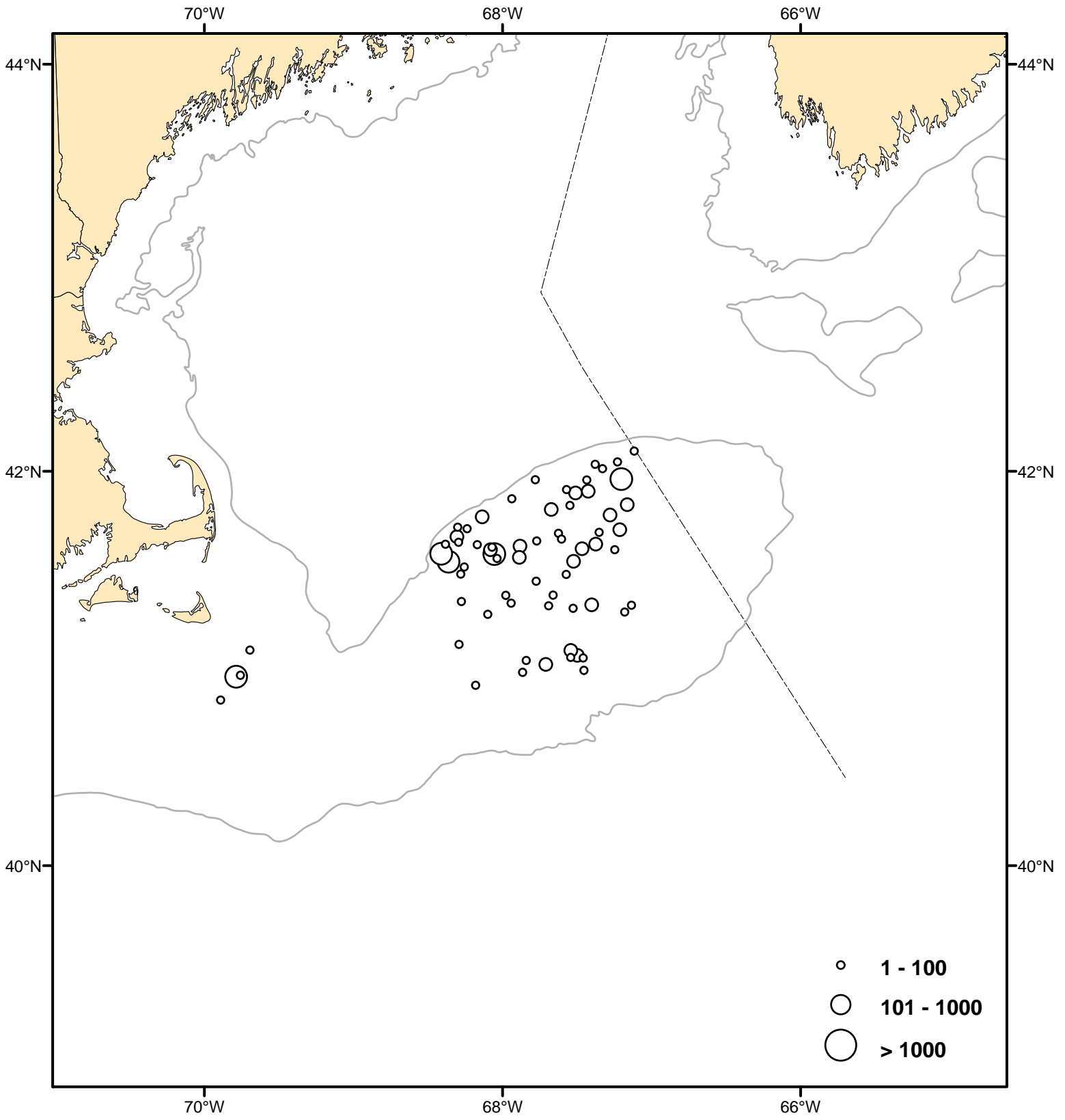
2016 NOAA Fisheries Service Surf Clam -- Ocean Quahog Survey
R/V ESS PURSUIT August 03 - August 18

Station Data								Surf Clams				Ocean Quahogs	
Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Percent of Survey Catch				Catch Number	
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"
72	0103	4153.4	6730.6	W13043.4	Y43844.4	0	24.6	256	7.4	10.2	44.9	37.5	0
72	0104	4154.0	6725.5	W13018.6	Y43842.2	0	29.5	451	27.5	26.6	34.6	11.3	0
72	0111	4157.3	6726.0	W13003.8	Y43859.3	0	23.5	49	26.5	14.3	49.0	10.2	0
72	0115	4156.2	6745.1	W13092.2	Y43873.8	0	24.1	0	0.0	0.0	0.0	0.0	55
72	0120	4146.0	6755.5	W13190.6	Y43832.1	0	17.0	0	0.0	0.0	0.0	0.0	0
72	0121	4139.0	6746.2	W13183.4	Y43785.8	0	0.0	88	8.0	10.2	42.0	39.8	0
72	0122	4137.5	6752.9	W13220.7	Y43784.5	0	18.6	175	6.9	6.3	41.7	45.1	0
73	0055	4149.9	6714.0	W12991.6	Y43810.3	0	25.7	1	0.0	100.0	0.0	0.0	0
73	0056	4148.4	6717.0	W13011.5	Y43805.7	0	27.3	0	0.0	0.0	0.0	0.0	0
73	0057	4146.8	6716.7	W13018.3	Y43797.3	0	26.8	768	14.6	9.9	29.8	45.7	0
73	0058	4141.6	6721.0	W13062.0	Y43775.0	0	19.1	52	21.2	9.6	28.8	40.4	0
73	0059	4138.0	6722.4	W13085.6	Y43757.8	0	20.8	408	10.3	5.4	20.1	64.2	0
73	0089	4119.7	6724.0	W13179.5	Y43663.6	0	23.5	224	1.8	2.7	4.9	90.6	0
73	0094	4128.9	6734.3	W13180.1	Y43721.2	0	38.0	17	17.6	5.9	47.1	29.4	0
73	0095	4132.9	6731.4	W13148.5	Y43739.6	0	23.0	281	9.6	7.5	23.1	59.8	2
73	0096	4136.7	6727.9	W13115.2	Y43756.2	0	24.6	292	11.6	5.1	13.7	69.5	0
73	0097	4139.6	6736.2	W13136.6	Y43779.1	0	24.6	3	0.0	0.0	0.0	100.0	0
74	0044	4119.6	6708.0	W13113.9	Y43650.1	0	30.6	13	7.7	0.0	15.4	76.9	1536
74	0045	4117.5	6710.8	W13135.0	Y43641.3	0	29.0	29	0.0	0.0	10.3	89.7	1584
74	0046	4118.9	6715.4	W13147.4	Y43652.3	0	25.7	0	0.0	0.0	0.0	0.0	39
74	0047	4124.7	6710.7	W13101.0	Y43678.8	0	26.8	0	0.0	0.0	0.0	0.0	0
74	0048	4132.4	6709.5	W13059.4	Y43717.5	0	27.3	0	0.0	0.0	0.0	0.0	3
74	0049	4136.4	6714.8	W13061.8	Y43742.7	0	25.7	5	60.0	20.0	20.0	0.0	0
74	0050	4141.9	6705.2	W12995.7	Y43761.9	0	31.7	0	0.0	0.0	0.0	0.0	0
74	0051	4142.4	6712.7	W13023.7	Y43771.3	0	29.0	664	0.0	0.6	4.2	95.2	6
74	0052	4146.8	6707.5	W12980.7	Y43788.6	0	30.6	0	0.0	0.0	0.0	0.0	0
74	0053	4153.7	6702.9	W12927.3	Y43818.5	0	31.7	0	0.0	0.0	0.0	0.0	0
74	0054	4149.9	6709.8	W12974.4	Y43806.3	0	32.8	124	1.6	4.0	10.5	83.9	0
96	0169	4058.3	6945.4	W13953.6	Y43669.4	0	18.0	6	50.0	0.0	0.0	50.0	0
96	0170	4106.0	6941.6	W13902.8	Y43714.8	0	17.0	42	42.9	7.1	19.0	31.0	0
96	0171	4112.1	6939.8	W13868.3	Y43751.4	0	10.4	0	0.0	0.0	0.0	0.0	0
96	0172	4057.9	6947.2	W13964.8	Y43668.6	0	23.0	1218	4.6	1.7	3.4	90.2	0
96	0174	4050.8	6953.4	W14025.0	Y43628.3	0	17.0	42	16.7	7.1	4.8	71.4	0

NEFSC SURFCLAM AND OCEAN QUAHOG SURVEY 2016
NOAA Fisheries Service
ATLANTIC SURFCLAM - Number/Tow
Total Number



NEFSC SURFCLAM AND OCEAN QUAHOG SURVEY 2016
NOAA Fisheries Service
ATLANTIC SURFCLAM - Number/Tow
Greater Than 5 Inches



NEFSC SURFCLAM AND OCEAN QUAHOG SURVEY 2016
NOAA Fisheries Service
OCEAN QUAHOGS - Number/Tow
Total Number

