

FISHERMEN'S CLAM REPORT
Surfclam - Ocean Quahog Survey
Delmarva Peninsula - Georges Bank
June 3 - July 12, 2002
FRV DELAWARE II

Submitted to: NOAA, NEFSC

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Date: 2002

Fishermen's Report

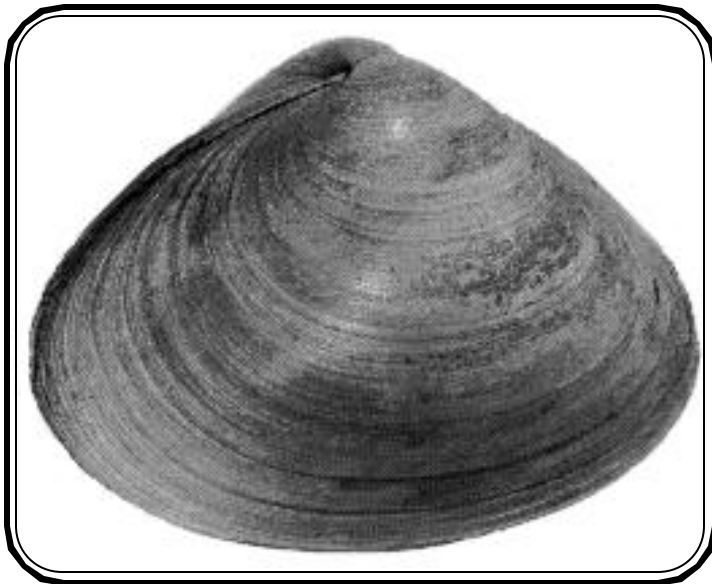
Surfclam/Ocean Quahog



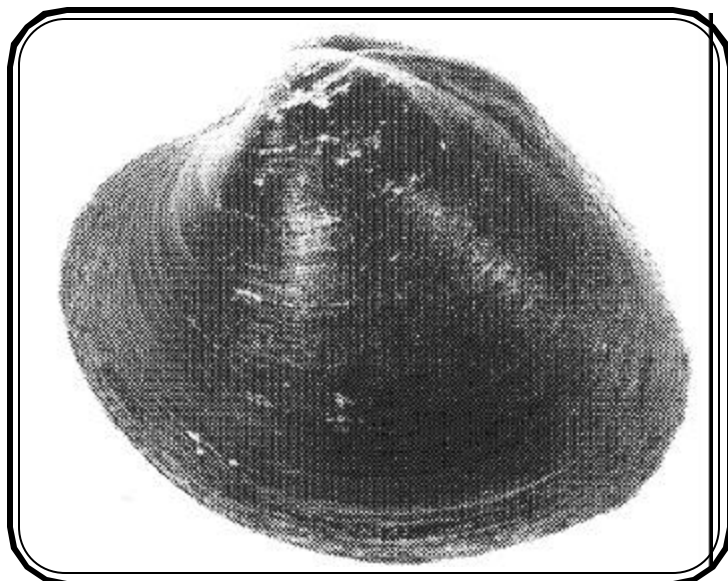
Delmarva Peninsula - Georges Bank
June 3 - July 12, 2002

FRV DELAWARE II

National Marine Fisheries Service
Northeast Fisheries Science Center
Woods Hole, MA 02543



Surfclam
(Spisula solidissima)



Ocean Quahog
(Arctica islandica)

CLAM FISHERMEN'S REPORT

Preliminary Catch Summary

National Marine Fisheries Service
Northeast Fisheries Science Center

Surfclam - Ocean Quahog Survey
FRV DELAWARE II
Delmarva Peninsula - Georges Bank
June 03 - July 12, 2002

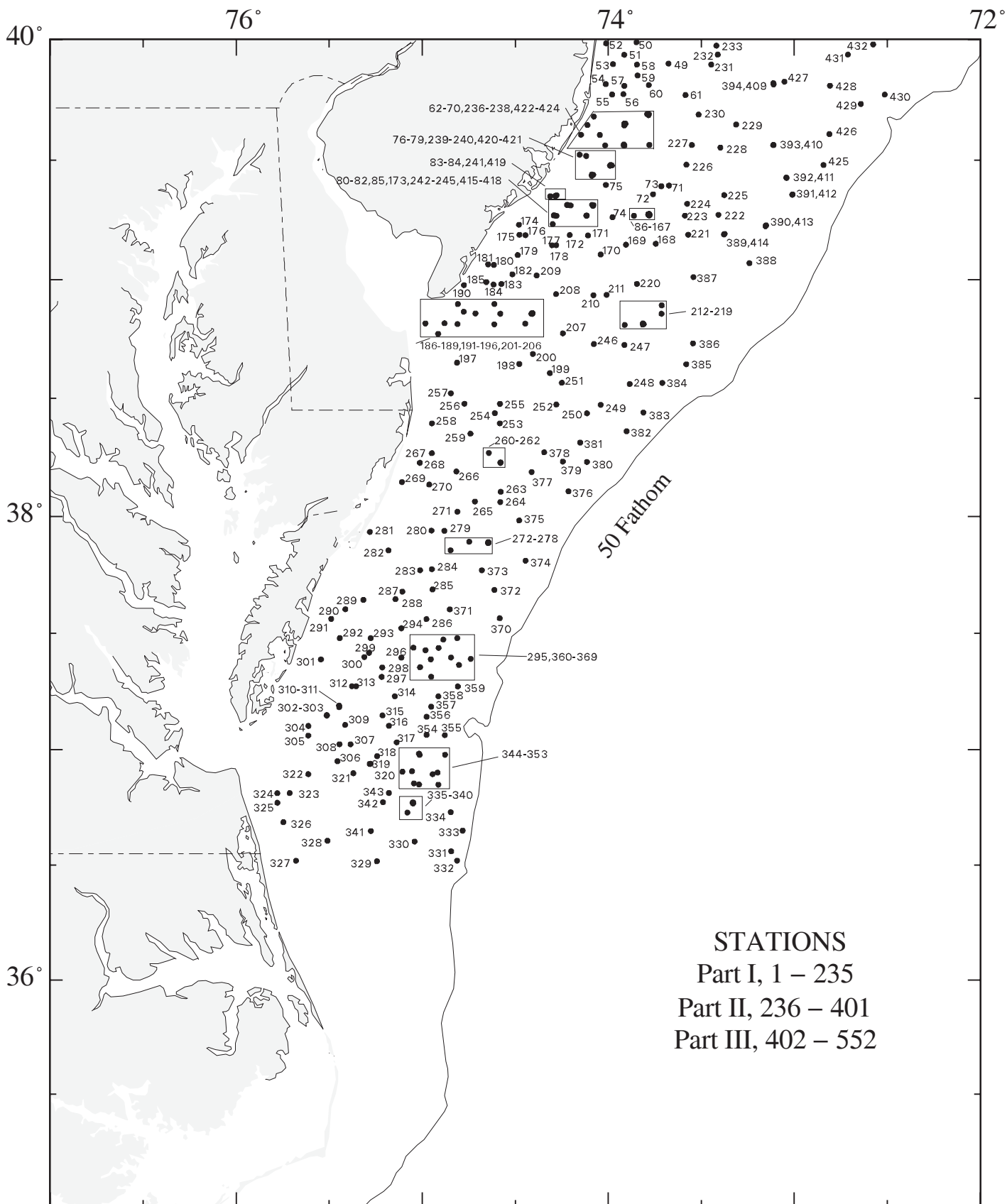
The 2002 region-wide survey for Atlantic surfclam, *Spisula solidissima*; and Ocean Quahog, *Arctica islandica*, was conducted in continental shelf waters, from Delmarva Peninsula to Georges Bank aboard the *FRV DELAWARE II*. The survey, conducted by the NMFS, Northeast Fisheries Science Center, provides indices of abundance and recruitment for both species. In addition, tows were made at 25 non-random sites during the survey to support on-going scientific studies.

The following charts and station data describe the distribution of surfclams and ocean quahogs during the survey. Five-minute tows were made at the speed of 1.5 knots with a hydraulic jet dredge equipped with a 5-foot wide blade and submersible pump positioned on 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, and depth in fathoms. Percent estimates of surfclams 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 surfclams and ocean quahogs caught on each tow.

In an effort to make this report timely, the data are summarized from unaudited catch files. Therefore, all information in this report is considered provisional and subject to change.

For further information contact Russell Brown (508-495-2380) or Linda Despres (508-495-2346), National Marine Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report on the Ecosystems Surveys Branch website, go to: <http://www.nefsc.nmfs.gov/esb/fishermens%20reports.htm>.



STATIONS
 Part I, 1 – 235
 Part II, 236 – 401
 Part III, 402 – 552

Figure 1. Dredge hauls made from R/V DELAWARE II, during National Marine Fisheries Service, Northeast Fisheries Science Center Surfclam/Ocean Quahog Survey (02 – 05), June 03 – July 12, 2002.
 Map 1 of 3

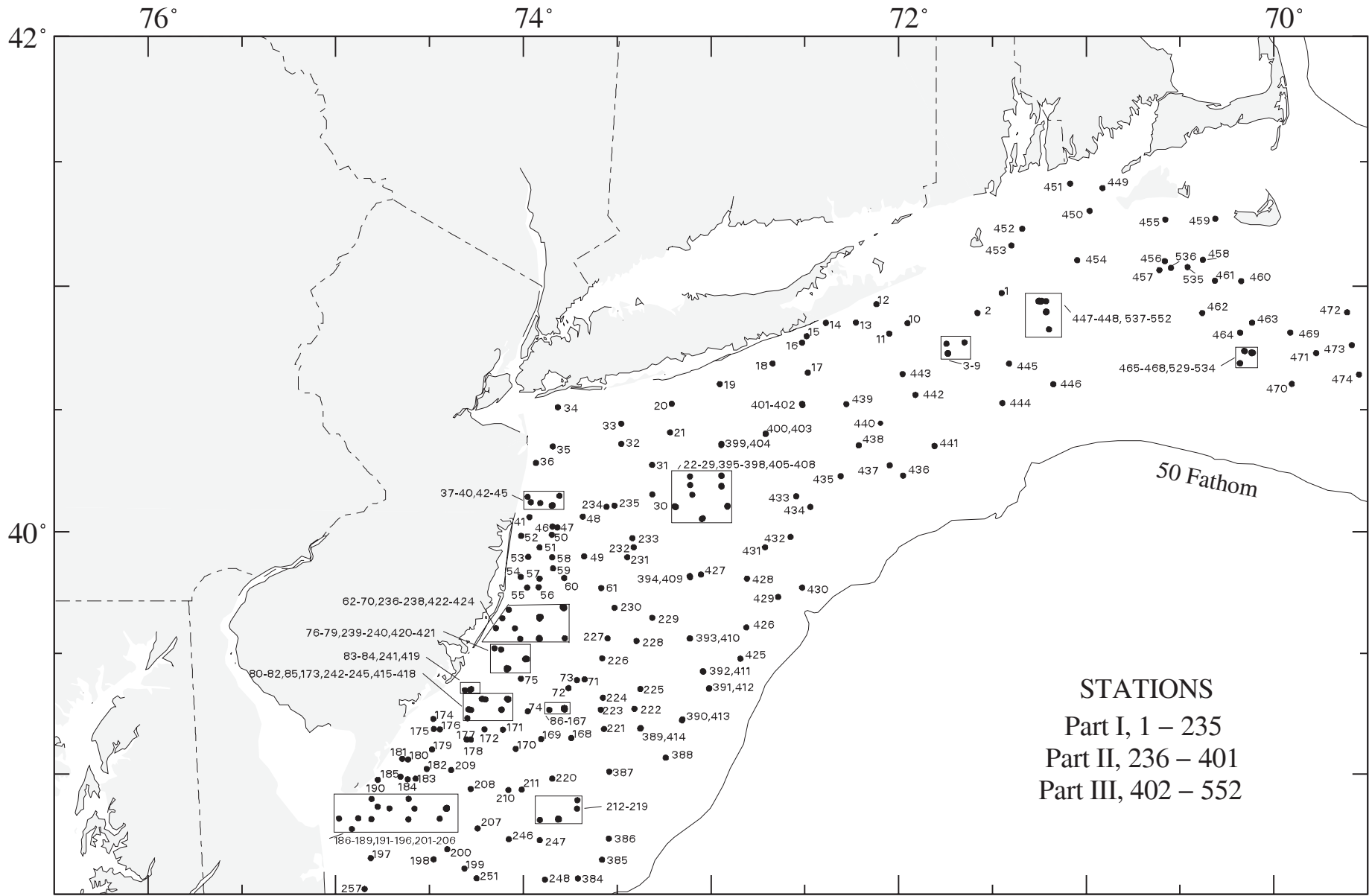


Figure 2. Dredge hauls made from R/V DELAWARE II, during National Marine Fisheries Service, Northeast Fisheries Science Center Surfclam/ Ocean Quahog Survey (02 – 05), June 03 – July 12, 2002.
 Map 2 of 3

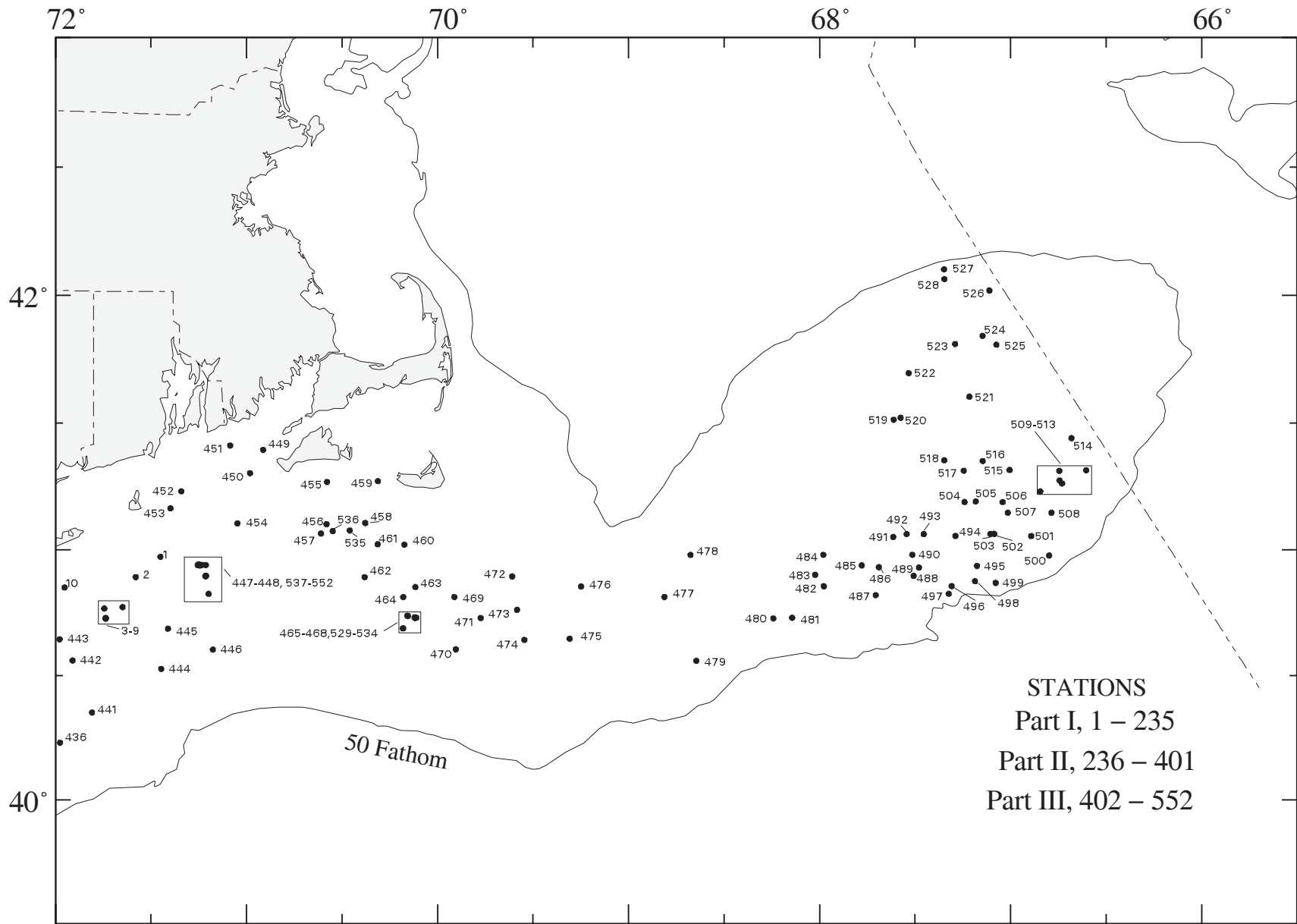


Figure 3. Dredge hauls made from R/V DELAWARE II, during National Marine Fisheries Service, Northeast Fisheries Science Center Surfclam/Ocean Quahog Survey (02 – 05), June 03 – July 12, 2002.

2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Data						Surf Clams Percent of Survey Catch				Ocean Quahogs
	Station Number	Position Latitude Longitude	Loran Time Delays	Heading	Depth (FM)	Catch Number	0-4.74"	4.76-5.00"	5.01-5.50"	>5.50"	Catch Number
01	0277	3753.4 7444.8	X26937.2 Y42046.8	256	17.5	68	22.1	2.9	11.8	63.2	0
01	0375	3758.9 7428.7	X26863.9 Y42127.1	48	27.3	0	0.0	0.0	0.0	0.0	168
01	0376	3806.3 7412.8	X26791.0 Y42224.8	323	30.1	3	100.0	0.0	0.0	0.0	25
01	0377	3811.2 7424.7	X26861.2 Y42264.2	66	19.7	158	79.7	8.2	3.2	8.9	11
01	0378	3816.3 7420.6	X26846.9 Y42323.2	48	23.5	127	90.6	2.4	5.5	1.6	77
01	0380	3813.8 7406.8	X26768.5 Y42310.3	338	35.5	0	0.0	0.0	0.0	0.0	31
02	0386	3843.9 7332.6	X26608.4 Y42647.6	59	36.1	0	0.0	0.0	0.0	0.0	66
02	0387	3900.6 7332.5	X26626.1 Y42816.9	65	26.8	0	0.0	0.0	0.0	0.0	116
02	0399	4021.5 7256.6	X26478.7 Y43589.1	34	21.9	0	0.0	0.0	0.0	0.0	93
02	0453	4109.8 7123.9	X25760.6 Y43868.2	186	18.6	0	0.0	0.0	0.0	0.0	5
03	0004	4046.0 7144.6	X25912.5 Y43716.1	165	31.2	0	0.0	0.0	0.0	0.0	30
03	0395	4003.1 7302.9	X26500.1 Y43423.9	17	24.6	0	0.0	0.0	0.0	0.0	156
03	0396	4006.4 7254.7	X26442.1 Y43448.7	36	26.2	0	0.0	0.0	0.0	0.0	123
03	0397	4011.3 7256.6	X26463.3 Y43495.5	40	25.7	0	0.0	0.0	0.0	0.0	174
03	0398	4013.8 7256.6	X26466.9 Y43518.5	39	24.6	0	0.0	0.0	0.0	0.0	142
03	0400	4024.0 7242.5	X26369.5 Y43597.6	33	24.6	0	0.0	0.0	0.0	0.0	66
03	0454	4106.2 7102.8	X25566.4 Y43813.5	112	18.0	0	0.0	0.0	0.0	0.0	0
05	0322	3653.6 7536.7	X27077.3 Y41295.3	156	12.0	0	0.0	0.0	0.0	0.0	0
05	0328	3636.3 7530.5	X27025.2 Y41117.2	64	10.4	5	100.0	0.0	0.0	0.0	0
05	0329	3631.0 7514.6	X26953.1 Y41098.0	169	15.9	51	78.4	0.0	15.7	5.9	0
05	0330	3636.1 7502.4	X26909.2 Y41181.3	132	13.7	1	0.0	0.0	0.0	100.0	0
05	0331	3633.6 7450.6	X26857.0 Y41183.8	136	24.6	8	100.0	0.0	0.0	0.0	0
05	0340	3643.7 7504.7	X26928.4 Y41256.3	241	14.8	107	72.9	2.8	19.6	4.7	0
05	0341	3638.9 7516.5	X26971.4 Y41177.9	93	17.5	0	0.0	0.0	0.0	0.0	0
05	0342	3646.3 7512.6	X26965.2 Y41266.4	96	16.4	14	0.0	14.3	42.9	42.9	0
06	0332	3631.2 7448.7	X26846.4 Y41163.9	192	29.5	0	0.0	0.0	0.0	0.0	0
06	0333	3639.0 7446.9	X26847.4 Y41248.3	351	32.8	0	0.0	0.0	0.0	0.0	2
06	0502	4103.7 6705.1	WL3174.4 Y43564.2	294	36.1	0	0.0	0.0	0.0	0.0	298
09	0014	4051.0 7223.2	X26249.9 Y43806.0	259	7.7	25	32.0	0.0	0.0	68.0	1
09	0283	3746.2 7500.6	X27003.1 Y41945.7	133	15.3	37	5.4	0.0	27.0	67.6	0
09	0284	3746.4 7456.8	X26985.0 Y41953.3	95	15.9	11	0.0	0.0	36.4	63.6	0
09	0285	3741.2 7456.6	X26975.4 Y41896.1	217	18.6	36	36.1	36.1	27.8	0.0	0
09	0286	3733.6 7458.6	X26972.7 Y41809.3	178	15.9	50	4.0	4.0	44.0	48.0	0
09	0287	3740.7 7506.4	X27021.4 Y41876.0	230	15.9	0	0.0	0.0	0.0	0.0	0
09	0288	3738.7 7508.6	X27028.4 Y41850.4	235	14.8	1	100.0	0.0	0.0	0.0	0
09	0289	3738.6 7518.9	X27076.5 Y41833.8	252	9.8	2	100.0	0.0	0.0	0.0	0
09	0293	3728.7 7516.6	X27048.2 Y41725.9	90	14.2	0	0.0	0.0	0.0	0.0	0
09	0294	3731.3 7506.7	X27006.9 Y41770.9	266	17.0	1	100.0	0.0	0.0	0.0	0
09	0295	3726.3 7502.8	X26980.8 Y41722.0	170	17.5	17	29.4	29.4	23.5	17.6	0
09	0296	3723.7 7506.7	X26994.6 Y41686.7	273	17.5	5	80.0	0.0	20.0	0.0	0
* 09	0297	3718.8 7513.0	X27015.4 Y41621.5	255	14.8	0	0.0	0.0	0.0	0.0	0
09	0300	3723.9 7518.6	X27049.1 Y41668.7	215	15.3	0	0.0	0.0	0.0	0.0	0
09	0303	3708.8 7530.7	X27077.0 Y41477.7	12	9.8	1	100.0	0.0	0.0	0.0	0
09	0307	3701.4 7523.1	X27032.1 Y41409.6	294	15.3	0	0.0	0.0	0.0	0.0	0
09	0308	3701.4 7526.6	X27047.2 Y41402.7	45	12.0	0	0.0	0.0	0.0	0.0	0
09	0309	3706.4 7524.8	X27047.4 Y41461.9	8	14.8	0	0.0	0.0	0.0	0.0	0
09	0310	3711.4 7526.8	X27064.4 Y41514.1	348	13.1	0	0.0	0.0	0.0	0.0	0
09	0312	3716.4 7522.6	X27054.3 Y41577.8	29	12.6	0	0.0	0.0	0.0	0.0	0
09	0314	3713.7 7508.8	X26988.5 Y41572.7	313	16.4	4	25.0	25.0	25.0	25.0	0

* Signifies a non-random station

2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Data						Surf Clams Percent of Survey Catch				Ocean Quahogs	
	Station Number	Position Latitude Longitude	Loran Time Delays	Heading	Depth (FM)	Catch Number	0-4.74"	4.76-5.00"	5.01-5.50"	>5.50"	Catch Number	
09	0315	3708.8 7512.8	X26998.8	Y41511.3	9	17.0	0	0.0	0.0	0.0	0.0	0
09	0316	3706.1 7510.7	X26985.4	Y41485.7	168	19.1	1	0.0	100.0	0.0	0.0	0
09	0319	3656.3 7516.6	X26996.5	Y41366.5	241	14.2	3	0.0	0.0	33.3	66.7	0
09	0320	3656.3 7516.9	X26997.8	Y41365.9	86	13.7	2	0.0	50.0	50.0	0.0	0
09	0321	3653.9 7522.2	X27016.8	Y41328.6	277	15.3	4	100.0	0.0	0.0	0.0	0
09	0335	3646.0 7502.9	X26923.8	Y41284.8	282	16.4	320	50.0	11.9	31.2	6.9	0
09	0343	3648.7 7510.7	X26960.5	Y41296.5	97	13.1	7	71.4	0.0	0.0	28.6	0
09	0344	3654.3 7506.3	X26949.3	Y41366.3	78	20.8	2	0.0	0.0	50.0	50.0	0
09	0346	3651.2 7502.6	X26929.2	Y41340.9	191	17.0	31	0.0	3.2	67.7	29.0	0
09	0348	3650.9 7454.7	X26894.8	Y41354.9	219	19.1	59	37.3	30.5	30.5	1.7	0
09	0349	3653.6 7456.6	X26906.4	Y41379.4	91	19.7	26	26.9	46.2	26.9	0.0	0
09	0352	3658.6 7500.8	X26931.3	Y41424.1	293	22.4	37	54.1	40.5	5.4	0.0	0
09	0354	3703.8 7458.5	X26928.3	Y41484.7	67	23.0	126	54.0	28.6	15.1	2.4	0
09	0358	3713.7 7454.7	X26924.9	Y41598.7	40	23.5	5	80.0	20.0	0.0	0.0	0
09	0360	3721.8 7448.1	X26905.9	Y41698.1	35	26.8	35	94.3	2.9	2.9	0.0	2
09	0364	3721.3 7500.7	X26963.4	Y41670.6	66	19.7	9	22.2	22.2	33.3	22.2	0
09	0367	3726.2 7454.7	X26943.0	Y41734.5	89	21.3	0	0.0	0.0	0.0	0.0	5
09	0369	3728.7 7448.7	X26918.5	Y41771.7	67	25.7	0	0.0	0.0	0.0	0.0	134
09	0371	3736.1 7451.0	X26940.4	Y41848.6	263	19.1	352	51.4	16.5	21.9	10.2	0
10	0334	3643.8 7450.7	X26869.0	Y41289.3	357	25.2	12	91.7	8.3	0.0	0.0	0
10	0351	3658.7 7452.6	X26895.5	Y41442.1	182	26.8	5	100.0	0.0	0.0	0.0	0
10	0355	3703.7 7452.6	X26901.9	Y41495.3	93	27.3	0	0.0	0.0	0.0	0.0	1
11	0370	3733.8 7435.0	X26860.2	Y41848.7	305	33.4	0	0.0	0.0	0.0	0.0	71
11	0372	3741.1 7436.7	X26878.5	Y41924.5	105	29.5	0	0.0	0.0	0.0	0.0	74
13	0197	3839.0 7448.7	X27042.5	Y42548.0	33	10.9	96	2.1	1.0	4.2	92.7	0
13	0253	3823.6 7434.9	X26936.6	Y42388.9	264	15.3	59	15.3	1.7	1.7	81.4	0
13	0254	3826.2 7436.5	X26950.0	Y42416.0	271	16.4	38	18.4	2.6	7.9	71.1	0
13	0255	3828.5 7434.9	X26945.4	Y42442.6	71	16.4	29	24.1	3.4	6.9	65.5	0
13	0256	3828.6 7446.4	X27008.5	Y42433.9	278	14.2	9	22.2	11.1	11.1	55.6	0
13	0259	3821.0 7444.4	X26983.1	Y42351.4	172	14.2	76	7.9	1.3	6.6	84.2	0
13	0260	3816.1 7438.5	X26942.7	Y42303.2	158	17.5	79	3.8	2.5	6.3	87.3	0
13	0261	3813.6 7434.7	X26918.3	Y42279.7	192	22.4	3	33.3	0.0	0.0	66.7	28
13	0262	3813.7 7434.7	X26918.4	Y42280.8	134	22.4	14	7.1	0.0	7.1	85.7	51
13	0263	3806.2 7434.6	X26905.6	Y42199.1	209	19.1	7	57.1	0.0	0.0	42.9	1
13	0264	3803.6 7434.8	X26902.5	Y42170.6	347	19.1	29	65.5	10.3	10.3	13.8	1
13	0265	3803.7 7442.9	X26944.5	Y42162.2	272	13.7	6	33.3	16.7	0.0	50.0	0
13	0266	3811.4 7448.9	X26989.1	Y42240.4	295	9.3	41	26.8	7.3	9.8	56.1	0
13	0271	3801.1 7448.6	X26969.2	Y42126.7	164	16.4	16	25.0	0.0	12.5	62.5	0
13	0272	3753.4 7438.6	X26906.1	Y42055.0	207	23.5	0	0.0	0.0	0.0	0.0	285
13	0278	3751.2 7450.8	X26963.5	Y42014.6	316	18.6	60	10.0	11.7	18.3	60.0	0
13	0279	3756.2 7452.8	X26981.9	Y42067.2	280	12.6	49	2.0	2.0	16.3	79.6	0
13	0280	3756.3 7457.0	X27003.1	Y42063.0	298	13.7	64	0.0	1.6	23.4	75.0	0
14	0373	3746.1 7440.7	X26905.5	Y41972.8	340	26.8	0	0.0	0.0	0.0	0.0	278
14	0379	3813.9 7414.6	X26811.0	Y42303.6	37	23.5	144	92.4	2.8	4.9	0.0	21
15	0374	3748.6 7426.6	X26838.7	Y42019.3	118	32.3	0	0.0	0.0	0.0	0.0	60
15	0381	3818.7 7409.0	X26787.1	Y42360.0	305	31.7	0	0.0	0.0	0.0	0.0	11
17	0187	3851.3 7434.8	X26989.3	Y42693.3	123	14.2	3	0.0	0.0	0.0	100.0	0
17	0188	3848.7 7436.7	X26994.9	Y42663.6	226	8.2	6	50.0	0.0	33.3	16.7	0
17	0198	3838.7 7428.7	X26929.5	Y42559.0	60	18.6	0	0.0	0.0	0.0	0.0	1

* Signifies a non-random station

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R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Data						Surf Clams Percent of Survey Catch				Ocean Quahogs	
	Station Number	Position Latitude Longitude	Loran Time Delays	Heading	Depth (FM)	Catch Number	0-4.74"	4.76-5.00"	5.01-5.50"	>5.50"	Catch Number	
17	0199	3836.3 7418.8	X26868.8 Y42539.9	57	22.4	4	50.0	0.0	25.0	25.0	23	
17	0200	3841.2 7424.3	X26908.9 Y42589.2	71	17.5	18	44.4	5.6	0.0	50.0	1	
17	0201	3848.8 7426.7	X26937.0 Y42670.4	44	10.9	15	20.0	13.3	13.3	53.3	0	
17	0202	3851.4 7424.4	X26928.6 Y42699.9	64	16.4	96	3.1	0.0	3.1	93.8	0	
17	0207	3846.4 7414.6	X26861.7 Y42651.2	37	20.8	16	56.2	0.0	0.0	43.8	16	
17	0246	3843.7 7404.6	X26798.4 Y42628.1	181	25.2	2	50.0	0.0	0.0	50.0	66	
17	0247	3843.5 7354.7	X26739.6 Y42631.6	210	22.4	13	92.3	7.7	0.0	0.0	33	
17	0251	3833.9 7414.9	X26842.6 Y42517.0	332	25.2	0	0.0	0.0	0.0	0.0	103	
17	0252	3828.4 7416.7	X26844.1 Y42456.6	222	22.4	19	89.5	0.0	5.3	5.3	21	
18	0248	3833.6 7353.1	X26717.2 Y42529.4	265	30.1	1	100.0	0.0	0.0	0.0	93	
18	0249	3828.3 7402.4	X26763.4 Y42467.0	206	28.4	0	0.0	0.0	0.0	0.0	60	
18	0250	3826.2 7406.8	X26785.3 Y42441.3	24	30.1	0	0.0	0.0	0.0	0.0	1	
19	0382	3821.6 7354.0	X26707.6 Y42403.9	60	36.1	0	0.0	0.0	0.0	0.0	28	
19	0383	3826.4 7348.6	X26682.8 Y42458.1	65	34.4	0	0.0	0.0	0.0	0.0	237	
19	0384	3833.9 7342.5	X26656.1 Y42539.8	62	33.9	0	0.0	0.0	0.0	0.0	21	
21	0061	3946.1 7335.0	X26709.3 Y43276.6	284	19.1	38	36.8	5.3	7.9	50.0	69	
21	0062	3941.4 7346.9	X26784.5 Y43233.2	6	10.4	232	5.6	2.2	4.3	87.9	1	
21	0070	3933.7 7346.7	X26768.6 Y43154.2	34	13.7	24	37.5	12.5	4.2	45.8	0	
21	0071	3923.5 7340.4	X26708.7 Y43049.0	145	19.1	69	23.2	7.2	17.4	52.2	0	
21	0072	3921.4 7345.5	X26739.2 Y43027.7	275	19.7	62	8.1	1.6	12.9	77.4	5	
*	21	0073	3923.4 7342.8	X26724.5 Y43048.1	330	18.6	147	10.2	4.8	15.6	69.4	0
21	0074	3915.6 7358.6	X26814.7 Y42966.7	200	15.3	47	8.5	2.1	4.3	85.1	0	
*	21	0086	3916.0 7351.7	X26770.8 Y42971.6	224	19.7	107	11.2	2.8	15.0	71.0	8
21	0087	3916.2 7346.7	X26738.6 Y42974.0	238	20.2	242	6.2	5.0	21.1	67.8	29	
*	21	0092	3916.3 7346.8	X26739.4 Y42975.1	61	19.7	148	6.8	0.7	34.5	58.1	5
21	0168	3909.0 7344.6	X26714.0 Y42900.0	270	18.6	35	62.9	5.7	8.6	22.9	12	
21	0169	3908.7 7354.3	X26775.3 Y42895.1	270	25.2	23	95.7	0.0	0.0	4.3	484	
21	0170	3906.3 7402.4	X26822.3 Y42868.1	274	19.1	29	34.5	3.4	13.8	48.3	19	
21	0171	3911.0 7406.5	X26856.7 Y42917.0	320	12.0	8	25.0	12.5	0.0	62.5	0	
21	0208	3856.3 7416.8	X26892.6 Y42756.5	41	18.6	0	0.0	0.0	0.0	0.0	84	
*	21	0209	3901.0 7423.1	X26939.8 Y42804.8	52	13.1	56	10.7	1.8	1.8	85.7	0
21	0210	3856.0 7404.7	X26818.8 Y42758.4	65	18.0	12	83.3	0.0	16.7	0.0	3	
21	0211	3856.1 7400.5	X26793.4 Y42761.1	129	19.7	28	32.1	7.1	3.6	57.1	52	
21	0212	3848.5 7354.7	X26746.7 Y42683.9	171	23.5	1	100.0	0.0	0.0	0.0	114	
21	0213	3848.9 7348.8	X26711.7 Y42690.9	7	24.6	5	60.0	0.0	20.0	20.0	275	
21	0219	3853.5 7342.7	X26680.6 Y42741.0	27	21.9	10	60.0	20.0	0.0	20.0	12	
21	0220	3858.8 7350.7	X26737.3 Y42792.9	53	20.8	9	33.3	0.0	11.1	55.6	70	
21	0221	3911.2 7334.2	X26650.1 Y42924.1	97	24.1	0	0.0	0.0	0.0	0.0	13	
21	0222	3916.2 7324.4	X26592.4 Y42975.1	104	24.1	24	91.7	4.2	0.0	4.2	44	
21	0223	3916.0 7335.2	X26663.2 Y42972.7	279	27.3	0	0.0	0.0	0.0	0.0	7	
21	0224	3919.0 7334.5	X26662.8 Y43003.1	48	24.1	9	55.6	0.0	22.2	22.2	3	
21	0225	3921.1 7322.6	X26586.4 Y43023.9	137	25.7	17	88.2	11.8	0.0	0.0	46	
21	0226	3928.8 7334.7	X26678.6 Y43102.3	304	17.5	88	8.0	1.1	9.1	81.8	1	
21	0227	3933.7 7333.0	X26674.5 Y43151.4	256	19.7	21	9.5	4.8	4.8	81.0	1	
21	0228	3933.1 7323.8	X26610.1 Y43143.4	255	18.0	98	24.5	4.1	11.2	60.2	1	
21	0230	3941.3 7330.8	X26671.4 Y43227.0	284	23.0	9	66.7	11.1	22.2	0.0	0	
22	0218	3851.3 7342.8	X26678.5 Y42718.4	40	24.6	2	100.0	0.0	0.0	0.0	39	
22	0389	3911.4 7322.4	X26573.8 Y42927.3	63	26.8	0	0.0	0.0	0.0	0.0	59	
23	0385	3838.6 7334.8	X26616.0 Y42592.6	65	32.8	0	0.0	0.0	0.0	0.0	22	

* Signifies a non-random station

2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Data						Surf Clams Percent of Survey Catch				Ocean Quahogs
	Station Number	Position Latitude Longitude	Loran Time Delays	Heading	Depth (FM)	Catch Number	0-4.74"	4.76-5.00"	5.01-5.50"	>5.50"	Catch Number
23	0388	3904.1 7314.4	X26515.1 Y42856.1	83	36.1	0	0.0	0.0	0.0	0.0	616
23	0390	3913.6 7309.1	X26489.2 Y42950.0	240	34.4	0	0.0	0.0	0.0	0.0	190
23	0391	3921.3 7300.6	X26439.1 Y43024.5	50	36.6	0	0.0	0.0	0.0	0.0	371
25	0038	4008.8 7348.4	X26854.4 Y43512.3	47	17.0	14	7.1	21.4	7.1	64.3	10
25	0047	4001.1 7349.1	X26841.7 Y43435.0	14	13.7	48	12.5	2.1	8.3	77.1	0
25	0048	4003.7 7341.0	X26787.7 Y43456.0	346	17.5	295	13.2	8.8	31.5	46.4	7
25	0049	3954.0 7340.5	X26763.8 Y43358.4	16	16.4	70	10.0	0.0	10.0	80.0	3
25	0229	3938.8 7318.7	X26582.3 Y43198.2	265	20.8	120	51.7	5.8	14.2	28.3	8
25	0231	3953.7 7326.7	X26662.7 Y43348.2	268	23.0	87	100.0	0.0	0.0	0.0	44
25	0232	3956.2 7324.6	X26651.6 Y43371.6	258	24.6	9	88.9	11.1	0.0	0.0	5
25	0235	4006.4 7330.8	X26716.9 Y43475.6	354	23.5	0	0.0	0.0	0.0	0.0	186
25	0393	3933.7 7306.7	X26492.1 Y43145.1	50	23.5	37	89.2	0.0	8.1	2.7	67
26	0233	3958.4 7325.1	X26659.2 Y43393.4	230	28.4	0	0.0	0.0	0.0	0.0	143
26	0234	4006.1 7333.4	X26735.9 Y43474.5	288	37.2	0	0.0	0.0	0.0	0.0	2
26	0394	3948.8 7306.6	X26508.7 Y43290.3	49	29.0	0	0.0	0.0	0.0	0.0	16
27	0392	3925.5 7302.5	X26455.4 Y43065.1	67	36.1	0	0.0	0.0	0.0	0.0	336
27	0425	3928.7 7250.5	X26375.9 Y43093.6	112	32.8	0	0.0	0.0	0.0	0.0	33
27	0426	3936.4 7248.6	X26367.9 Y43165.6	23	35.0	0	0.0	0.0	0.0	0.0	77
27	0427	3949.5 7303.1	X26484.1 Y43295.3	134	38.3	0	0.0	0.0	0.0	0.0	232
29	0017	4038.9 7229.0	X26279.7 Y43712.1	319	20.8	3	100.0	0.0	0.0	0.0	175
29	0018	4041.2 7240.3	X26378.2 Y43745.7	336	17.5	0	0.0	0.0	0.0	0.0	125
29	0021	4024.4 7313.0	X26614.7 Y43632.3	37	17.0	0	0.0	0.0	0.0	0.0	23
29	0022	4013.6 7306.7	X26545.4 Y43525.4	183	23.0	0	0.0	0.0	0.0	0.0	107
29	0023	4011.5 7306.6	X26541.2 Y43505.6	187	22.4	0	0.0	0.0	0.0	0.0	136
*	29	0024	4009.1 7305.9	X26532.0 Y43482.5	193	24.6	0	0.0	0.0	0.0	140
29	0030	4009.2 7318.7	X26630.4 Y43493.6	6	21.9	0	0.0	0.0	0.0	0.0	34
29	0031	4016.4 7318.8	X26644.7 Y43562.5	353	19.1	1	100.0	0.0	0.0	0.0	51
29	0032	4021.6 7328.7	X26733.0 Y43621.5	21	15.9	0	0.0	0.0	0.0	0.0	11
29	0401	4031.3 7230.8	X26284.1 Y43649.1	22	23.5	0	0.0	0.0	0.0	0.0	403
30	0428	3948.5 7248.4	X26375.9 Y43278.6	143	33.4	0	0.0	0.0	0.0	0.0	191
31	0429	3943.9 7238.5	X26301.1 Y43231.5	25	39.9	0	0.0	0.0	0.0	0.0	0
31	0430	3946.2 7230.8	X26246.9 Y43249.1	326	36.1	0	0.0	3.6	0.0	0.0	20
31	0431	3956.2 7242.7	X26340.5 Y43346.6	343	30.6	0	0.0	0.0	0.0	0.0	92
31	0432	3958.7 7234.5	X26281.1 Y43364.2	95	33.9	0	0.0	0.0	0.0	0.0	522
31	0433	4008.7 7232.7	X26275.1 Y43452.6	42	31.7	0	0.0	0.0	0.0	0.0	563
31	0434	4006.1 7228.2	X26238.5 Y43426.0	63	32.3	0	0.0	0.0	0.0	0.0	433
31	0435	4013.6 7218.5	X26168.4 Y43484.0	97	32.3	0	0.0	0.0	0.0	0.0	434
31	0438	4021.2 7212.7	X26127.3 Y43544.1	343	33.4	0	0.0	0.0	0.0	0.0	370
33	0010	4051.0 7157.1	X26025.0 Y43771.2	252	20.8	0	0.0	0.0	0.0	0.0	66
33	0011	4048.4 7202.9	X26071.5 Y43758.0	241	21.3	0	0.0	0.0	0.0	0.0	47
33	0013	4051.1 7213.6	X26167.5 Y43793.8	275	16.4	0	0.0	0.0	0.0	0.0	95
33	0016	4046.2 7230.8	X26306.6 Y43776.1	228	15.3	1	100.0	0.0	0.0	0.0	4
34	0439	4031.3 7216.7	X26168.1 Y43633.7	22	29.0	0	0.0	0.0	0.0	0.0	737
34	0443	4038.6 7158.7	X26025.5 Y43673.8	347	27.3	0	0.0	0.0	0.0	0.0	167
35	0436	4013.8 7158.5	X26012.8 Y43469.0	0	35.0	0	0.0	0.0	0.0	0.0	178
35	0437	4016.3 7202.8	X26046.8 Y43493.6	351	34.4	0	0.0	0.0	0.0	0.0	396
35	0440	4028.7 7204.6	X26066.9 Y43599.1	121	31.7	0	0.0	0.0	0.0	0.0	1418
35	0441	4021.0 7148.5	X25935.2 Y43519.9	136	40.5	0	0.0	0.0	0.0	0.0	0
35	0442	4033.5 7154.6	X25987.9 Y43627.9	8	32.3	0	0.0	0.0	0.0	0.0	189

* Signifies a non-random station

2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Surf Clams Percent of Survey Catch				Ocean Quahogs Catch Number		
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"	
	37	0450	4118.1	7058.9	X25552.8	Y43891.2	357	18.0	0	0.0	0.0	0.0	0.0	334
	37	0452	4113.8	7120.4	X25737.0	Y43892.0	60	18.6	0	0.0	0.0	0.0	0.0	152
	38	0001	4058.3	7127.0	X25771.6	Y43787.9	211	27.3	0	0.0	0.0	0.0	0.0	336
	38	0447	4053.7	7112.7	X25643.9	Y43735.7	20	28.4	0	0.0	0.0	0.0	0.0	552
	38	0448	4056.3	7112.8	X25646.0	Y43755.0	2	27.9	0	0.0	0.0	0.0	0.0	400
*	38	0543	4056.3	7114.6	X25661.6	Y43757.2	187	28.4	0	0.0	0.0	0.0	0.0	838
*	38	0544	4056.4	7114.7	X25662.5	Y43758.1	188	29.0	0	0.0	0.0	0.0	0.0	473
*	38	0545	4056.4	7114.9	X25664.3	Y43758.3	23	28.4	0	0.0	0.0	0.0	0.0	520
*	38	0546	4056.3	7115.0	X25665.1	Y43757.7	190	29.0	0	0.0	0.0	0.0	0.0	685
*	38	0547	4056.3	7115.2	X25666.8	Y43758.0	13	29.0	0	0.0	0.0	0.0	0.0	79
*	38	0548	4056.4	7115.1	X25666.0	Y43758.6	196	28.4	0	0.0	0.0	0.0	0.0	316
*	38	0549	4056.2	7114.6	X25661.5	Y43756.5	6	27.9	0	0.0	0.0	0.0	0.0	153
*	38	0550	4056.3	7114.5	X25660.7	Y43757.1	187	28.4	0	0.0	0.0	0.0	0.0	603
*	38	0551	4056.3	7114.2	X25658.1	Y43756.7	10	28.4	0	0.0	0.0	0.0	0.0	275
*	38	0552	4056.3	7114.1	X25657.3	Y43756.6	184	29.0	0	0.0	0.0	0.0	0.0	249
	39	0002	4053.5	7134.7	X25833.9	Y43761.7	192	29.5	0	0.0	0.0	0.0	0.0	765
	39	0003	4046.3	7138.9	X25864.2	Y43711.6	257	36.1	0	0.0	0.0	0.0	0.0	9
	39	0444	4031.5	7126.8	X25761.5	Y43583.1	20	37.2	0	0.0	0.0	0.0	0.0	1
	39	0445	4041.1	7124.6	X25742.1	Y43655.0	137	32.3	0	0.0	0.0	0.0	0.0	236
	39	0446	4036.1	7110.5	X25629.1	Y43601.9	123	36.1	0	0.0	0.0	0.0	0.0	9
*	39	0542	4049.5	7111.9	X25636.1	Y43703.8	205	33.4	0	0.0	0.0	0.0	0.0	0
	41	0456	4106.0	7034.8	X25317.9	Y43776.4	211	21.9	0	0.0	0.0	0.0	0.0	211
	41	0457	4103.8	7036.6	X25333.4	Y43763.5	71	23.0	0	0.0	0.0	0.0	0.0	264
	41	0458	4106.3	7022.7	X25212.6	Y43763.7	27	20.2	0	0.0	0.0	0.0	0.0	301
*	41	0461	4101.3	7018.8	X25187.0	Y43725.5	277	20.8	0	0.0	0.0	0.0	0.0	139
	41	0462	4053.4	7022.9	X25235.0	Y43676.3	208	24.6	0	0.0	0.0	0.0	0.0	2
	41	0464	4048.7	7010.7	X25168.1	Y43631.4	247	20.2	0	0.0	0.0	0.0	0.0	183
*	41	0465	4044.2	7009.2	X25175.2	Y43599.2	225	21.9	0	0.0	0.0	0.0	0.0	227
*	41	0466	4041.2	7010.8	X25194.3	Y43580.1	182	23.5	0	0.0	0.0	0.0	0.0	69
*	41	0467	4041.2	7010.8	X25194.3	Y43580.1	209	24.1	0	0.0	0.0	0.0	0.0	122
	41	0468	4043.8	7006.6	X25162.8	Y43594.0	49	21.9	0	0.0	0.0	0.0	0.0	272
*	41	0534	4044.2	7009.4	X25176.3	Y43599.4	155	22.4	0	0.0	0.0	0.0	0.0	234
*	41	0535	4104.5	7027.5	X25254.7	Y43757.3	343	22.4	0	0.0	0.0	0.0	0.0	212
*	41	0536	4104.4	7032.9	X25301.2	Y43763.1	259	22.4	0	0.0	0.0	0.0	0.0	148
	45	0469	4048.7	6954.7	W14039.8	Y43615.6	153	15.3	11	0.0	0.0	0.0	100.0	2
	45	0471	4043.7	6946.4	W14013.8	Y43574.6	153	24.6	25	16.0	4.0	24.0	56.0	52
	45	0472	4053.6	6936.5	W13924.4	Y43630.1	179	20.8	0	0.0	0.0	0.0	0.0	0
*	45	0473	4045.6	6935.0	W13946.8	Y43576.8	42	25.2	1	100.0	0.0	0.0	0.0	6
	46	0474	4038.5	6932.7	W13961.1	Y43528.4	166	27.3	34	61.8	17.6	17.6	2.9	54
	46	0475	4038.7	6918.5	W13887.8	Y43518.2	143	28.4	0	0.0	0.0	0.0	0.0	5
	47	0470	4036.2	6954.2	W14081.8	Y43531.1	107	31.7	0	0.0	0.0	0.0	0.0	115
	47	0476	4051.2	6914.9	W13821.7	Y43594.8	316	29.0	0	0.0	0.0	0.0	0.0	0
	55	0477	4048.7	6848.7	W13700.9	Y43556.9	310	37.7	0	0.0	0.0	0.0	0.0	302
	55	0478	4058.7	6840.5	W13620.0	Y43610.5	4	34.4	0	0.0	0.0	0.0	0.0	0
	55	0479	4033.4	6838.7	W13712.8	Y43455.6	161	37.2	0	0.0	0.0	0.0	0.0	340
	57	0480	4043.6	6814.5	W13559.6	Y43500.4	149	36.1	0	0.0	0.0	0.0	0.0	796
	57	0481	4043.7	6808.6	W13532.3	Y43496.9	106	38.8	0	0.0	0.0	0.0	0.0	1019
	59	0482	4051.3	6758.6	W13455.8	Y43533.9	44	33.4	1	0.0	0.0	0.0	100.0	1628
	59	0485	4056.2	6746.7	W13382.2	Y43553.0	90	30.6	0	0.0	0.0	0.0	0.0	713

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2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Surf Clams Percent of Survey Catch				Ocean Quahogs Catch Number	
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"
59	0488	4053.7	6730.4	W13322.7	Y43527.5	106	41.0	0	0.0	0.0	0.0	0.0	177
59	0490	4058.8	6730.8	W13302.3	Y43555.9	326	36.6	27	88.9	3.7	7.4	0.0	455
59	0492	4103.7	6732.6	W13288.5	Y43584.1	93	33.4	48	18.8	4.2	35.4	41.7	1010
60	0495	4056.1	6710.5	W13229.7	Y43527.3	135	44.3	0	0.0	0.0	0.0	0.0	415
60	0496	4051.3	6718.5	W13283.2	Y43506.4	248	47.6	0	0.0	0.0	0.0	0.0	416
60	0497	4049.4	6719.4	W13295.0	Y43496.6	106	49.2	0	0.0	0.0	0.0	0.0	171
60	0498	4052.5	6711.1	W13247.7	Y43508.2	128	47.0	0	0.0	0.0	0.0	0.0	107
60	0499	4052.1	6704.7	W13223.5	Y43502.0	39	48.1	0	0.0	0.0	0.0	0.0	230
61	0504	4111.3	6714.5	W13178.5	Y43611.4	52	31.2	0	0.0	0.0	0.0	0.0	668
61	0506	4111.3	6702.5	W13129.8	Y43602.5	154	36.1	0	0.0	0.0	0.0	0.0	1045
61	0509	4113.8	6650.7	W13071.8	Y43606.9	39	38.3	0	0.0	0.0	0.0	0.0	17
61	0511	4116.4	6644.6	W13036.3	Y43615.8	36	41.0	0	0.0	0.0	0.0	0.0	219
61	0515	4118.9	6700.3	W13086.2	Y43640.4	254	35.0	0	0.0	0.0	0.0	0.0	979
62	0500	4058.6	6647.9	W13129.0	Y43525.9	69	40.5	0	0.0	0.0	0.0	0.0	76
62	0512	4118.7	6644.7	W13026.0	Y43627.6	162	39.9	0	0.0	0.0	0.0	0.0	16
62	0513	4118.8	6636.2	W12993.2	Y43621.9	62	46.5	0	0.0	0.0	0.0	0.0	77
62	0514	4126.4	6640.8	W12975.2	Y43663.6	353	44.3	0	0.0	0.0	0.0	0.0	958
65	0527	4206.1	6720.9	W12936.4	Y43897.5	76	36.1	25	100.0	0.0	0.0	0.0	0
70	0483	4054.0	6801.3	W13456.5	Y43551.3	117	25.7	5	100.0	0.0	0.0	0.0	2
70	0484	4058.8	6758.8	W13424.7	Y43576.8	2	29.5	0	0.0	0.0	0.0	0.0	0
71	0526	4201.1	6706.6	W12904.1	Y43858.4	275	27.9	0	0.0	0.0	0.0	0.0	0
71	0528	4203.8	6720.8	W12948.1	Y43886.1	48	26.8	4	75.0	25.0	0.0	0.0	0
73	0518	4121.2	6720.8	W13159.1	Y43668.8	322	24.6	191	4.2	1.6	8.9	85.3	0
73	0519	4130.8	6736.7	W13181.4	Y43733.4	260	19.1	11	90.9	0.0	9.1	0.0	0
73	0520	4131.2	6734.5	W13170.0	Y43733.5	78	17.5	25	28.0	4.0	12.0	56.0	0
73	0521	4136.2	6712.9	W13054.9	Y43739.9	345	24.1	0	0.0	0.0	0.0	0.0	0
73	0522	4141.7	6732.0	W13108.2	Y43786.0	36	24.1	5	0.0	0.0	40.0	60.0	0
73	0523	4148.6	6717.4	W13012.1	Y43807.1	81	26.8	228	18.9	14.9	33.3	32.9	0
74	0516	4121.0	6708.7	W13110.2	Y43657.9	249	30.6	0	0.0	0.0	0.0	0.0	175
74	0517	4118.7	6714.7	W13145.4	Y43650.7	335	25.7	0	0.0	0.0	0.0	0.0	5
74	0524	4150.5	6708.8	W12967.3	Y43808.3	117	30.6	0	0.0	0.0	0.0	0.0	0
74	0525	4148.4	6704.4	W12960.1	Y43793.7	120	32.3	0	0.0	0.0	0.0	0.0	0
81	0323	3648.7	7542.7	X27094.1	Y41227.9	254	8.7	0	0.0	0.0	0.0	0.0	0
81	0324	3648.7	7546.7	X27110.4	Y41219.6	127	9.8	0	0.0	0.0	0.0	0.0	0
81	0325	3646.2	7546.7	X27106.3	Y41191.4	148	8.7	0	0.0	0.0	0.0	0.0	0
81	0326	3641.2	7544.7	X27090.1	Y41139.5	166	6.6	5	100.0	0.0	0.0	0.0	0
81	0327	3631.1	7540.7	X27058.5	Y41036.3	151	12.6	0	0.0	0.0	0.0	0.0	0
82	0304	3706.1	7536.7	X27098.1	Y41436.1	214	9.8	0	0.0	0.0	0.0	0.0	0
82	0305	3703.6	7536.7	X27093.8	Y41407.8	199	10.4	0	0.0	0.0	0.0	0.0	0
83	0292	3728.7	7526.6	X27093.7	Y41709.7	87	8.7	1	100.0	0.0	0.0	0.0	0
83	0301	3723.3	7532.6	X27110.7	Y41638.5	174	7.7	3	100.0	0.0	0.0	0.0	0
84	0281	3755.9	7516.8	X27099.6	Y42032.9	263	5.5	0	0.0	0.0	0.0	0.0	2
84	0282	3751.2	7510.8	X27061.5	Y41987.6	243	7.1	33	100.0	0.0	0.0	0.0	0
84	0290	3736.2	7524.7	X27098.9	Y41797.8	268	8.7	7	85.7	0.0	14.3	0.0	0
84	0291	3733.7	7529.3	X27115.3	Y41762.3	213	7.1	6	100.0	0.0	0.0	0.0	0
85	0258	3823.6	7456.8	X27054.2	Y42368.6	260	10.4	0	0.0	0.0	0.0	0.0	0
85	0267	3816.0	7456.8	X27038.9	Y42283.3	250	7.7	7	100.0	0.0	0.0	0.0	0
85	0268	3813.6	7500.7	X27054.3	Y42252.2	238	9.3	39	100.0	0.0	0.0	0.0	0
85	0269	3808.7	7506.5	X27074.1	Y42190.6	130	8.2	1	100.0	0.0	0.0	0.0	0

* Signifies a non-random station

2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

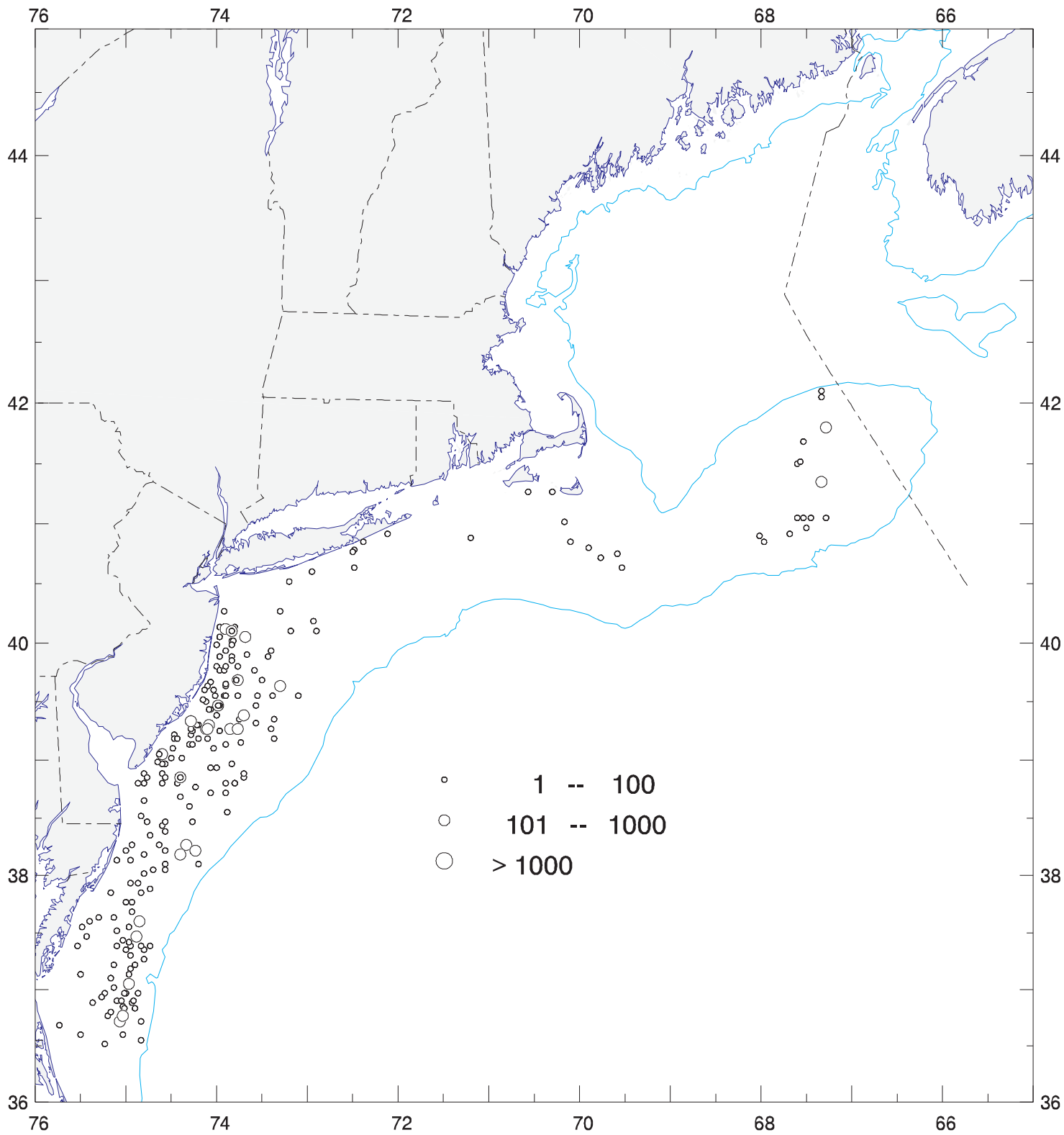
Survey Stratum	Station Data						Surf Clams Percent of Survey Catch				Ocean Quahogs
	Station Number	Position Latitude Longitude	Loran Time Delays	Heading	Depth (FM)	Catch Number	0-4.74"	4.76-5.00"	5.01-5.50"	>5.50"	Catch Number
85	0270	3808.0 7457.7	X27028.1 Y42192.7	158	12.0	9	100.0	0.0	0.0	0.0	0
86	0195	3848.9 7458.9	X27121.7 Y42652.4	337	6.0	0	0.0	0.0	0.0	0.0	0
86	0196	3846.3 7454.8	X27092.6 Y42625.7	3	7.7	0	0.0	0.0	0.0	0.0	0
86	0257	3831.2 7450.7	X27037.1 Y42459.2	322	10.9	4	25.0	25.0	50.0	0.0	0
87	0177	3908.6 7418.1	X26924.6 Y42888.7	102	12.0	8	12.5	0.0	0.0	87.5	0
87	0178	3908.6 7416.7	X26915.9 Y42889.0	259	11.5	75	4.0	10.7	13.3	72.0	0
87	0179	3906.1 7429.2	X26987.6 Y42858.3	236	10.4	42	14.3	0.0	2.4	83.3	0
87	0180	3903.6 7436.8	X27027.9 Y42828.1	261	9.8	194	1.0	7.7	60.8	30.4	0
87	0181	3903.8 7438.7	X27039.7 Y42829.6	127	7.1	2	50.0	0.0	0.0	50.0	0
87	0182	3901.3 7430.9	X26987.5 Y42805.1	119	9.3	23	47.8	13.0	13.0	26.1	0
87	0183	3858.8 7434.4	X27002.9 Y42776.1	240	7.7	20	45.0	20.0	25.0	10.0	0
87	0184	3858.7 7436.9	X27017.5 Y42773.9	355	5.5	20	40.0	20.0	30.0	10.0	0
87	0185	3859.3 7439.3	X27033.1 Y42779.5	304	6.6	2	100.0	0.0	0.0	0.0	0
87	0186	3853.8 7436.7	X27005.7 Y42719.9	183	8.7	9	55.6	0.0	22.2	22.2	0
87	0189	3851.4 7442.8	X27035.9 Y42690.0	229	8.7	0	0.0	0.0	0.0	0.0	0
87	0190	3858.5 7446.5	X27073.5 Y42767.3	283	7.1	0	0.0	0.0	0.0	0.0	0
87	0191	3853.8 7448.5	X27074.2 Y42713.7	328	4.9	4	25.0	0.0	25.0	50.0	0
87	0192	3851.8 7446.6	X27058.7 Y42692.4	7	7.7	28	3.6	0.0	0.0	96.4	0
87	0193	3848.7 7448.6	X27063.1 Y42656.5	18	8.7	6	100.0	0.0	0.0	0.0	0
87	0194	3848.9 7452.8	X27087.4 Y42656.2	346	7.1	25	100.0	0.0	0.0	0.0	0
88	0066	3936.2 7408.7	X26923.1 Y43184.3	228	8.2	2	0.0	0.0	0.0	100.0	0
88	0067	3936.2 7402.7	X26882.6 Y43183.2	194	10.9	71	18.3	1.4	14.1	66.2	0
88	0068	3933.6 7401.0	X26865.6 Y43155.6	225	12.6	18	16.7	22.2	16.7	44.4	0
88	0069	3933.6 7355.0	X26825.0 Y43154.7	240	13.7	96	10.4	0.0	5.2	84.4	0
88	0075	3923.7 7400.7	X26843.6 Y43051.7	254	12.0	18	0.0	16.7	27.8	55.6	0
88	0076	3928.5 7359.4	X26844.4 Y43102.0	251	12.0	133	4.5	3.0	5.3	87.2	0
88	0077	3930.9 7407.1	X26900.7 Y43128.0	242	9.3	21	33.3	4.8	4.8	57.1	0
88	0078	3931.3 7409.2	X26915.6 Y43132.4	258	8.2	25	12.0	12.0	12.0	64.0	0
88	0079	3926.2 7404.8	X26875.6 Y43078.1	153	10.9	46	8.7	0.0	2.2	89.1	0
88	0080	3918.5 7404.9	X26860.8 Y42996.7	253	13.7	48	10.4	4.2	6.2	79.2	0
88	0081	3916.0 7407.0	X26869.5 Y42970.0	247	14.8	153	5.2	3.9	4.6	86.3	0
88	0082	3918.7 7413.0	X26913.3 Y42998.1	249	11.5	24	0.0	4.2	16.7	79.2	0
88	0083	3920.9 7417.0	X26943.7 Y43021.3	260	8.2	192	3.1	1.6	16.7	78.6	0
88	0084	3920.9 7418.7	X26954.6 Y43021.2	251	8.2	6	0.0	0.0	16.7	83.3	0
88	0085	3916.1 7417.3	X26935.3 Y42969.7	264	9.8	72	4.2	6.9	4.2	84.7	0
88	0172	3911.1 7412.4	X26894.1 Y42916.9	280	11.5	29	27.6	0.0	34.5	37.9	0
88	0173	3913.9 7417.9	X26934.4 Y42945.9	74	8.7	14	42.9	14.3	21.4	21.4	0
88	0174	3913.7 7428.7	X27001.5 Y42941.5	272	8.2	50	2.0	2.0	12.0	84.0	0
88	0175	3911.2 7428.6	X26995.2 Y42914.2	185	8.7	13	7.7	7.7	0.0	84.6	0
88	0176	3911.1 7426.6	X26982.6 Y42913.6	113	9.3	31	12.9	6.5	9.7	71.0	0
89	0037	4008.6 7358.6	X26929.8 Y43517.6	56	9.3	43	18.6	4.7	9.3	67.4	0
89	0039	4007.3 7357.6	X26919.1 Y43503.6	12	11.5	0	0.0	0.0	0.0	0.0	0
89	0040	4007.0 7354.6	X26896.1 Y43498.5	38	11.5	105	42.9	1.9	1.9	53.3	0
89	0041	4003.6 7358.0	X26912.8 Y43466.0	40	11.5	72	20.8	0.0	1.4	77.8	0
89	0046	4001.3 7350.7	X26853.9 Y43438.0	15	12.6	32	9.4	0.0	12.5	78.1	0
89	0050	3959.3 7350.9	X26850.7 Y43417.8	23	14.2	70	20.0	0.0	2.9	77.1	0
89	0051	3956.2 7354.8	X26871.9 Y43388.2	15	12.6	47	38.3	2.1	6.4	53.2	0
89	0052	3959.0 7400.7	X26921.0 Y43420.2	359	10.9	93	48.4	5.4	4.3	41.9	0
89	0053	3953.8 7358.4	X26892.1 Y43365.2	52	10.4	43	14.0	9.3	4.7	72.1	0

* Signifies a non-random station

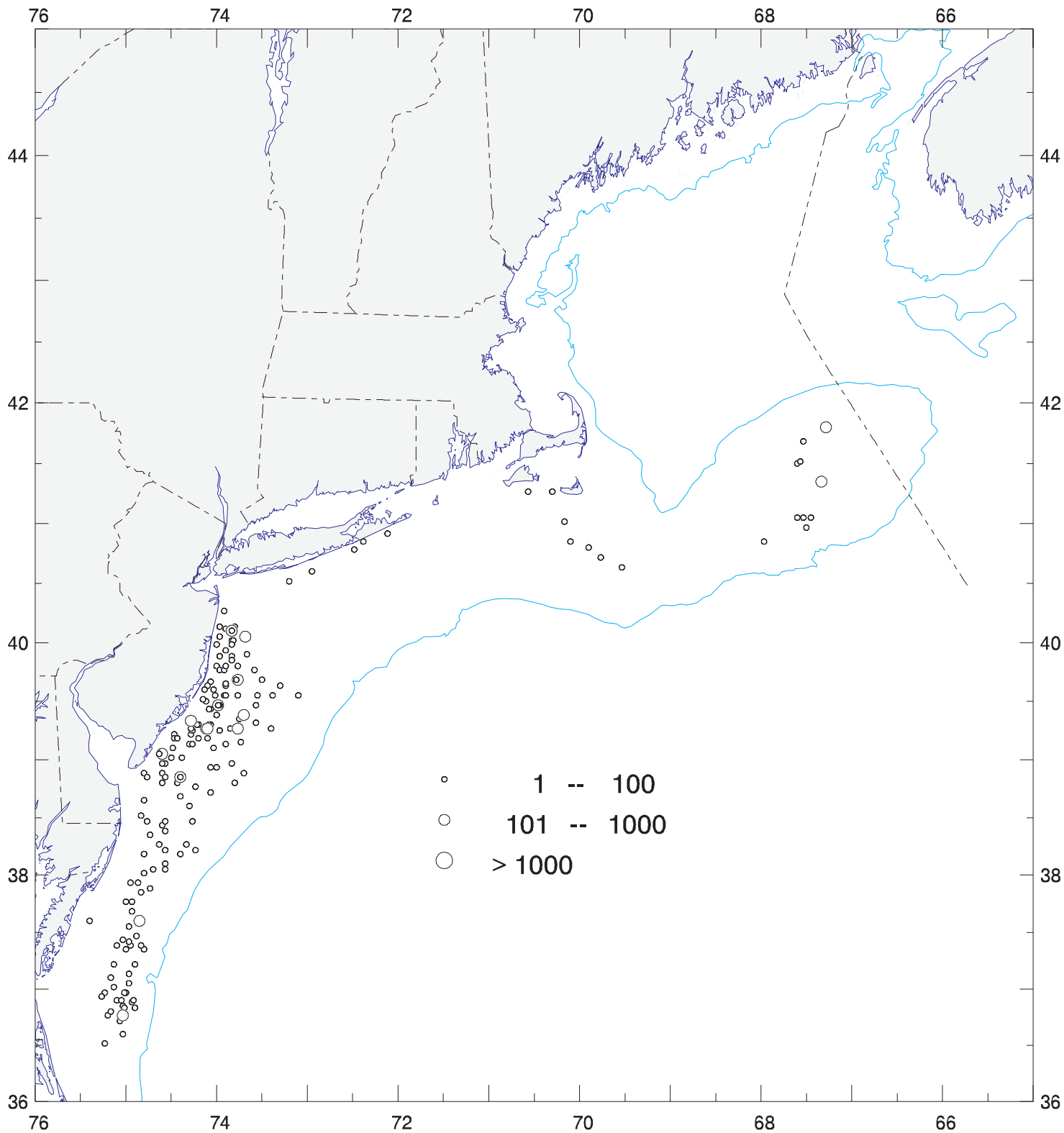
2002 NMFS-NEFSC Surf Clam -- Ocean Quahog Survey
R/V DELAWARE II June 03 - July 12

Survey Stratum	Station Number	Position		Loran		Depth (FM)	Catch Number	Surf Clams Percent of Survey Catch				Ocean Quahogs Catch Number	
		Latitude	Longitude	Time	Delays			Heading	0-4.74"	4.76-5.00"	5.01-5.50"		>5.50"
89	0054	3948.9	7400.8	X26897.7	Y43315.4	352	9.8	24	12.5	8.3	12.5	66.7	0
89	0055	3946.3	7358.7	X26877.1	Y43287.6	105	10.4	81	8.6	6.2	9.9	75.3	0
89	0056	3946.4	7355.1	X26852.1	Y43287.4	24	12.6	11	54.5	0.0	9.1	36.4	0
89	0057	3948.4	7354.8	X26854.4	Y43307.9	18	11.5	98	30.6	9.2	17.3	42.9	0
89	0058	3953.7	7350.7	X26836.8	Y43360.5	49	13.1	28	53.6	3.6	7.1	35.7	0
89	0059	3951.0	7350.5	X26829.5	Y43332.8	133	14.2	91	25.3	1.1	3.3	70.3	0
89	0060	3948.6	7346.9	X26798.8	Y43306.7	147	15.3	62	16.1	0.0	3.2	80.6	0
89	0063	3939.0	7354.4	X26831.7	Y43210.6	355	14.2	87	12.6	1.1	8.0	78.2	0
89	0064	3940.8	7404.6	X26905.7	Y43231.9	215	7.7	53	5.7	0.0	1.9	92.5	0
89	0065	3938.7	7406.7	X26915.2	Y43210.3	211	8.2	32	9.4	0.0	15.6	75.0	0
90	0035	4020.9	7350.5	X26900.5	Y43635.4	20	13.1	0	0.0	0.0	0.0	0.0	5
90	0036	4016.9	7355.9	X26931.1	Y43600.0	39	9.3	20	10.0	10.0	20.0	60.0	0
91	0020	4031.3	7312.5	X26624.8	Y43695.9	234	12.0	8	50.0	0.0	25.0	25.0	1
91	0033	4026.5	7328.7	X26744.1	Y43668.5	36	12.6	0	0.0	0.0	0.0	0.0	0
91	0034	4030.5	7348.9	X26913.7	Y43728.9	9	8.7	0	0.0	0.0	0.0	0.0	1
92	0015	4047.8	7229.4	X26297.5	Y43787.7	240	13.1	2	0.0	50.0	0.0	50.0	4
92	0019	4036.2	7257.1	X26508.8	Y43722.5	288	13.1	53	18.9	3.8	15.1	62.3	1
93	0012	4055.6	7207.0	X26117.6	Y43821.0	247	11.5	9	44.4	0.0	0.0	55.6	159
94	0449	4123.6	7054.8	X25531.2	Y43922.8	238	12.6	0	0.0	0.0	0.0	0.0	54
94	0451	4124.7	7105.1	X25627.1	Y43945.5	350	10.9	0	0.0	0.0	0.0	0.0	404
95	0455	4116.0	7034.7	X25328.9	Y43843.8	181	13.1	14	14.3	0.0	0.0	85.7	60
95	0459	4116.2	7018.7	X25184.3	Y43824.4	33	7.1	33	0.0	0.0	3.0	97.0	0
95	0460	4101.2	7010.4	X25125.1	Y43715.3	87	13.1	19	0.0	0.0	0.0	100.0	22
95	0463	4051.1	7006.9	X25138.1	Y43643.8	193	14.2	19	0.0	0.0	0.0	100.0	63

NEFSC CLAM SURVEY - 2002
SURFCLAMS - Number/Tow
Total Number



NEFSC CLAM SURVEY - 2002
SURFCLAMS - Number/Tow
Greater Than 5 inches



NEFSC CLAM SURVEY - 2002
OCEAN QUAHOG - Number/Tow
Total Number

