

RESOURCE SURVEY REPORT Catch  
Summary  
National Marine Fisheries Service  
Northeast Fisheries Science Center  
Sea Scallop Survey  
Cape Hatteras - Georges Bank  
July 6 - August 6, 2004

**Submitted to:** NOAA, NEFSC

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**Date:** 2004

# Resource Survey Report

## Sea Scallop Survey



Cape Hatteras - SE Georges Bank  
July 6 - August 6, 2004

*FRV ALBATROSS IV*

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



**8-foot New Bedford Type Scallop Dredge and Sea Scallops**

# RESOURCE SURVEY REPORT

## Catch Summary

National Marine Fisheries Service  
Northeast Fisheries Science Center

### **Sea Scallop Survey**

Cape Hatteras - Georges Bank  
July 6 - August 6, 2004

The following field notes, charts, and station data indicate the distribution of sea scallops during the 2004 summer Scallop Survey conducted aboard the *FRV ALBATROSS IV*. Fifteen-minute tows were made at a speed of 3.8 knots using a standard 8-foot New Bedford type scallop dredge. The dredge was equipped with a 2-inch ring chain bag and lined with 1-1/2 inch mesh webbing to retain small scallops. For statistical purposes, stations were randomly selected and therefore were not always on or near scallop concentrations.

In this report, scallop catch is reported in numbers and by-catch is recorded in liters, depth in fathoms and bottom temperature in degrees Fahrenheit. Bottom temperature is included at selected stations because it is an environmental factor which influences sea scallop growth rates and spawning time. Catches are reported in three categories of shell height: less than or equal to 90 mm (greater than 40 count), greater than 90 mm (less than 40 count), and greater than or equal to 100 mm (less than 30 count). The percent composition of by-catch is also given.

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

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**[http://www.nefsc.noaa.gov/esb/Resource\\_Survey\\_Reports.htm](http://www.nefsc.noaa.gov/esb/Resource_Survey_Reports.htm)**

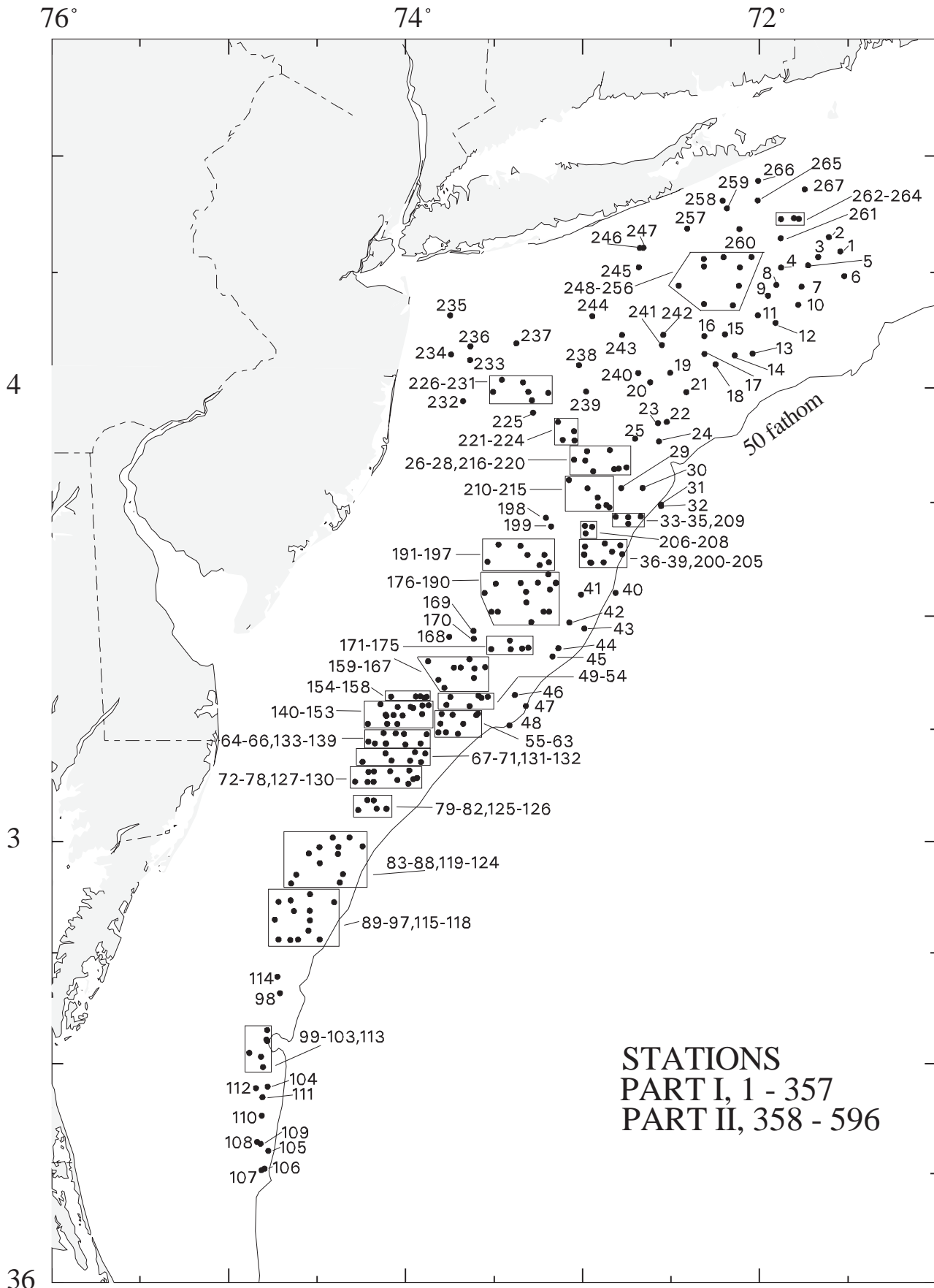
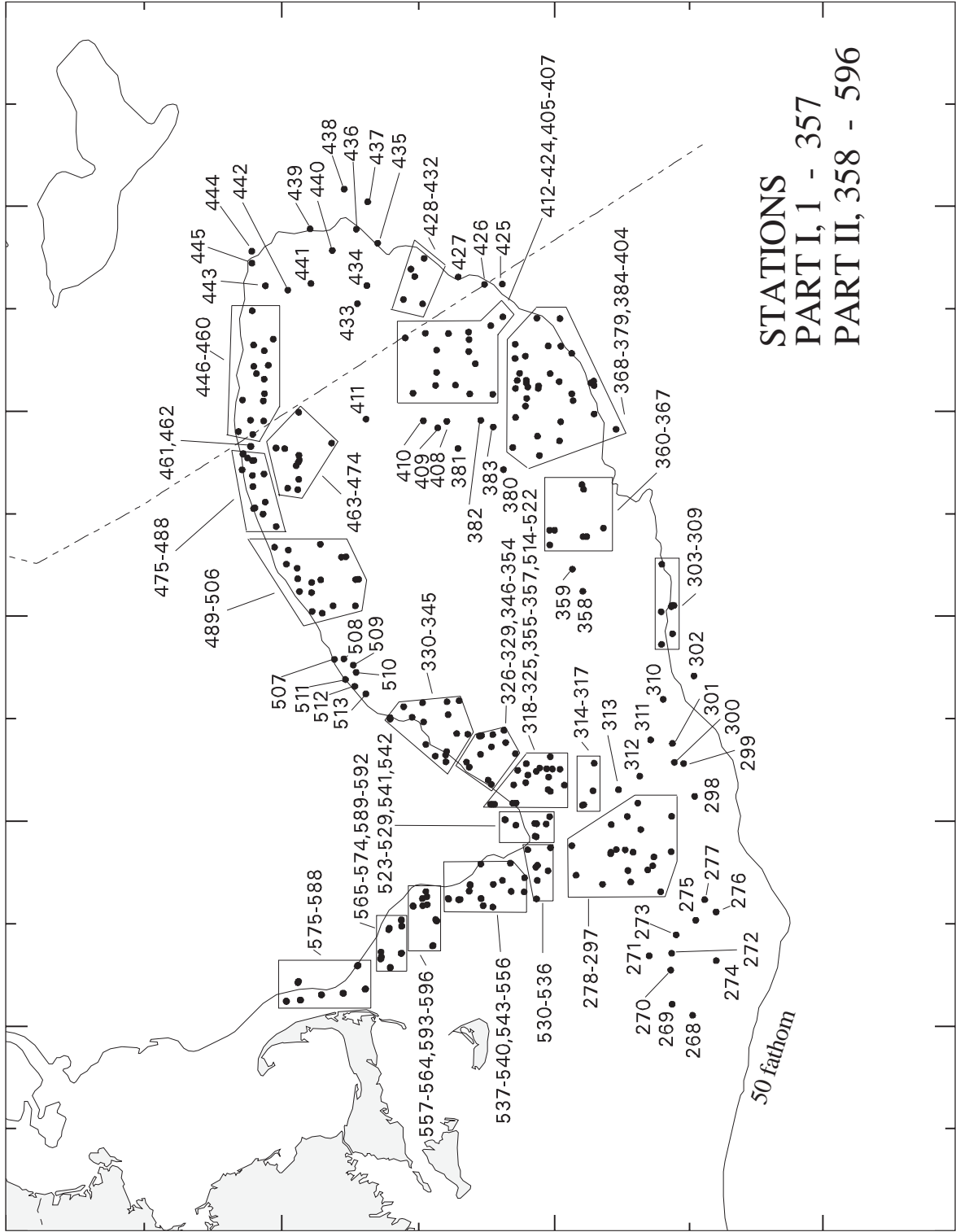


Figure 1. Dredge tows from the FRV ALBATROSS IV (04 - 06), during National Marine Fisheries Service, Northeast Fisheries Science Center, Sea Scallop Survey, July 6 - August 6, 2004.



**STATIONS**  
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Figure 1. Dredge tows from the FRV ALBATROSS IV (04 - 06), during National Marine Fisheries Service, Northeast Fisheries Science Center, Sea Scallop Survey, July 6 - August 6, 2004

## Field Notes

**In an effort to share some of the natural history observations made during the sea scallop survey, we have requested that the Chief Scientists on each part of the cruise comment on some of the more interesting catches that were brought aboard the *FRV ALBATROSS IV*.**

### **We're watching!**

During Leg I, eight special tows were completed at depths of 50 to 100 meters by deploying an underwater camera mounted on the dredge's gooseneck. The camera was mounted in such a way so that the dredge was observed during important phases of the tow: while on the way to the bottom, during the tow and once it came off the bottom. The camera information will be synchronized with other data collected during the tow including the inclinometer and a timed trawl event which captures data from the vessel's Shipboard Computing System sensors. This information will help to give us an idea about the dredge's efficiency and the actual time the dredge is fishing on the bottom.

### **Migration observed.**

On the first tow of the survey in the Mid-Atlantic offshore waters, we were invaded by a swarm of moths. There were literally thousands of them. Attracted by the lights, they covered almost every inch of the overhead on the sampling deck and in the wet lab.

### **What a difference a year makes.**

The very strong recruitment of young scallops observed during the 2003 survey throughout most portions of the Mid-Atlantic was not repeated this year. However in those areas of especially strong recruitment last year, there were catches around 10 to 13 thousand scallops in the range of 1.3 - 3 inches (32 - 77 millimeters). While juvenile scallop catches were also poor on Georges Bank, catches of larger scallops in the three groundfish closed areas remained very high.

### **Moving haddock.**

Juvenile haddock previously found in the Mid-Atlantic were noticeably absent this year. In fact, we did not catch any haddock south of the Nantucket Lightship but haddock encountered within the Lightship closed area ranged in size from 9 - 10 inches (23 - 26 centimeters). However, the strong one year-old haddock year-class seen last year as early juveniles was regularly observed again on Georges Bank.

### **Constituent Involvement.**

James Kendall, a commercial scallop Captain for 35 years and who served two terms as a member of the New England Fishery Management Council, sailed on leg 2. Jim provided valuable feedback to the scientists and crew on how to improve some gear handling aspects on the *FRV Albatross IV*. He mentioned that he was impressed with the performance of the research vessel, the standard scallop gear and the dedication and hard work of the scientists. The Scallop Plan and Development Team Chair, Andrew Applegate, and the NEFSC principal stock assessment biologist, Devorah Hart, also participated on this survey leg.

**Rock Chain testing.**

The rock chain experiment continued during leg 2 of the survey. We conducted 26 additional paired tows in the Great South Channel area. This was part of the process to develop a calibration factor for the rock chain gear. 2004 marked the first time the rock chain rigged scallop dredge was deployed in the Great South Channel as the standard gear. This change was implemented after review of the experimental protocol and associated statistical analyses by the 39<sup>th</sup> Northeast Regional Stock Assessment Workshop.

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ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch						
	Position		Loran TD's	heading	Depth (FM)	Bottom Temp (F)	Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.													
0001	4035.3	7132.5	X25807.0	Y43618.6	214	35.5	43.2	0	0	0	0	1	0	99	173
0002	4039.0	7136.4	X25839.7	Y43651.8	208	36.6	42.4	0	0	0	0	1	0	99	69
0003	4033.9	7140.1	X25869.0	Y43615.6	254	37.7		0	0	0	0	10	0	90	92
0004	4031.1	7152.6	X25970.3	Y43606.3	85	33.9	42.4	37	37	0	0	20	0	80	92
0005	4031.7	7143.5	X25896.3	Y43601.7	94	36.1		0	0	0	0	2	0	98	184
0006	4028.9	7131.2	X25797.3	Y43567.0	109	39.4		0	0	0	0	5	0	95	46
0007	4026.2	7145.7	X25913.3	Y43559.6	266	37.7	42.1	0	0	0	0	2	0	98	69
0008	4026.7	7154.2	X25981.6	Y43572.0	220	35.5		5	5	0	0	1	0	99	46
0009	4023.8	7157.1	X26003.9	Y43551.0	126	36.1		3	3	0	0	1	0	99	36
0010	4021.5	7146.8	X25921.9	Y43522.5	249	38.8	42.1	0	0	0	0	20	0	80	12
0011	4018.8	7200.5	X26029.4	Y43512.6	126	31.7		21	18	3	0	40	0	60	46
0012	4016.8	7154.5	X25982.0	Y43490.6	221	35.5		0	0	0	0	30	0	70	92
0013	4008.8	7202.3	X26041.5	Y43429.8	262	33.9	41.9	378	324	54	34	50	0	50	46
0014	4008.4	7208.3	X26087.2	Y43431.0	328	33.9		68	53	15	14	2	0	98	161
0015	4013.9	7211.7	X26115.4	Y43480.9	267	32.3		170	135	35	18	30	0	70	115
0016	4013.4	7218.6	X26169.0	Y43482.4	180	30.6	42.3	43	22	21	12	5	0	95	253
0017	4008.8	7218.6	X26166.4	Y43442.4	135	36.1		11	1	10	10	2	0	98	173
0018	4006.1	7214.8	X26136.2	Y43416.1	256	37.2		0	0	0	0	70	0	30	92
0019	4003.8	7230.2	X26252.2	Y43407.0	231	30.1	42.3	997	557	440	132	70	0	30	92
0020	4001.4	7237.0	X26302.0	Y43390.2	111	31.7		495	343	152	74	40	20	40	92
0021	3958.8	7224.8	X26208.6	Y43358.9	192	36.6		4	3	1	1	20	40	40	253
0022	3951.0	7231.4	X26253.5	Y43292.8	249	36.1	41.9	291	65	226	152	50	10	40	138
0023	3950.7	7234.3	X26274.5	Y43291.6	123	31.7		915	576	339	155	40	50	10	138
0024	3945.9	7234.0	X26269.8	Y43247.8	238	31.7		536	254	282	174	50	20	30	92
0025	3946.7	7242.1	X26328.7	Y43258.9	139	31.2	42.1	414	182	232	140	50	0	50	69
0026	3938.7	7249.2	X26373.8	Y43187.4	92	34.4		27	1	26	14	2	0	98	219
0027	3938.8	7247.7	X26363.3	Y43187.8	91	35.5		45	13	32	26	2	0	98	184
0028	3939.1	7245.1	X26345.1	Y43189.7	131	36.6	41.4	290	200	90	55	30	30	40	127
0029	3933.7	7246.8	X26353.5	Y43139.8	118	35.5		2156	340	1816	840	50	0	50	46
0030	3933.7	7239.6	X26303.5	Y43137.8	146	39.9		103	43	60	39	60	0	40	127
0031	3929.4	7233.4	X26259.2	Y43096.5	151	53.6	49.6	0	0	0	0	1	0	99	92
C 0032	3929.0	7233.3	X26258.4	Y43092.8	179	54.1		0	0	0	0	1	0	99	23
0033	3926.3	7240.2	X26304.4	Y43069.2	268	46.5		0	0	0	0	1	0	99	92
0034	3926.1	7244.5	X26333.5	Y43068.0	185	41.0		8	2	6	5	1	0	99	138
0035	3924.3	7244.4	X26331.9	Y43051.2	196	43.2	41.7	1	0	1	1	1	0	99	138
0036	3918.7	7247.1	X26347.4	Y42998.7	266	42.7		0	0	0	0	1	0	99	35
0037	3916.4	7246.5	X26342.3	Y42977.0	286	47.6		0	0	0	0	2	0	98	115
0038	3917.0	7249.9	X26365.1	Y42982.8	224	42.1	41.7	1	0	1	1	10	80	10	184
0039	3914.2	7252.8	X26382.7	Y42956.2	162	41.0		2	0	2	0	30	30	40	184
0040	3906.1	7248.7	X26352.3	Y42879.4	282	59.1		0	0	0	0	5	0	95	104



ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch						
	Position		Loran TD's	heading	Depth (FM)	Bottom		Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)
	Lat.	Long.				Temp (F)									
0041	3905.7	7300.4	X26426.9	Y42874.0	218	41.6	41.7	0	0	0	0	40	20	40	184
0042	3858.3	7304.4	X26447.5	Y42801.5	120	39.9		2	0	2	0	85	5	10	115
0043	3856.7	7259.3	X26414.8	Y42787.3	139	45.9		0	0	0	0	70	5	25	115
0044	3851.5	7308.2	X26466.7	Y42734.0	219	40.5	47.7	0	0	0	0	20	75	5	253
0045	3849.3	7310.1	X26476.9	Y42711.7	241	44.3		0	0	0	0	1	0	99	92
0046	3839.1	7322.9	X26546.2	Y42604.5	124	41.6		1	0	1	1	1	1	98	115
0047	3836.2	7319.1	X26521.5	Y42577.9	224	52.5	49.8	0	0	0	0	2	0	98	92
0048	3831.0	7324.7	X26550.2	Y42522.5	323	56.9		0	0	0	0	2	0	98	115
0049	3838.6	7332.1	X26600.1	Y42594.2	272	35.5		1360	1091	269	198	50	0	50	46
0050	3838.3	7334.2	X26612.2	Y42589.9	300	31.2	41.4								
0051	3838.9	7335.2	X26618.7	Y42595.4	10	30.6		10205	9984	221	130	50	0	50	46
0052	3838.6	7344.8	X26674.9	Y42586.6	215	29.5		4144	3672	472	152	50	0	50	138
0053	3836.4	7346.1	X26679.9	Y42563.1	96	30.6		9134	8182	952	514	75	5	20	60
0054	3836.1	7338.3	X26634.0	Y42565.0	155	32.8	41.2	12364	12065	299	145	60	0	40	92
0055	3833.7	7336.0	X26618.1	Y42542.1	271	37.2		63	15	48	35	20	0	80	184
C 0056	3834.1	7335.4	X26615.0	Y42546.5	276	37.2		86	18	68	52	5	0	95	184
0057	3833.8	7344.0	X26664.7	Y42537.7	252	32.3		13005	12818	187	85	60	0	40	23
* 0058	3834.0	7347.7	X26686.4	Y42537.3	207	29.5	41.2	12306	11550	756	322	40	0	60	46
0059	3831.4	7348.1	X26685.7	Y42510.1	102	31.2		10220	9814	406	252	60	0	40	35
0060	3831.4	7340.4	X26641.3	Y42515.6	211	35.0		622	378	244	66	10	0	90	207
0061	3828.7	7342.2	X26648.8	Y42486.7	275	34.4	41.2	758	412	346	134	20	0	80	116
0062	3829.2	7346.3	X26672.8	Y42488.7	320	31.7		10164	9756	408	132	80	0	20	138
0063	3829.1	7348.8	X26687.0	Y42485.8	298	30.1		7660	7130	530	250	50	0	50	92
0064	3828.6	7352.8	X26709.2	Y42477.6	237	31.2	40.8	2320	1760	560	250	30	0	70	138
0065	3826.2	7354.9	X26718.2	Y42451.0	268	30.1		2395	1920	475	200	20	50	30	138
0066	3825.9	7400.0	X26746.6	Y42443.7	166	27.9		750	414	336	183	20	0	80	230
0067	3823.5	7353.3	X26705.9	Y42424.2	278	34.4	41.0	219	77	142	96	40	0	60	230
0068	3823.9	7356.8	X26726.1	Y42425.4	149	31.7		794	260	534	374	40	1	59	173
0069	3821.2	7354.7	X26711.1	Y42399.1	273	33.9		80	19	61	45	10	0	90	184
0070	3821.6	7358.4	X26732.2	Y42400.1	275	32.3	41.0	114	19	95	73	10	0	90	253
0071	3821.6	7404.7	X26767.2	Y42394.5	162	31.7		48	11	37	29	10	40	50	207
0072	3818.8	7405.2	X26766.3	Y42364.6	94	32.8		154	29	125	81	10	30	60	207
0073	3819.0	7358.7	X26730.6	Y42372.6	147	34.4	41.2	27	5	22	20	10	0	90	184
0074	3816.9	7356.0	X26713.2	Y42353.2	272	35.0									
0075	3816.7	7357.3	X26720.1	Y42349.9	128	35.0		848	260	588	270	50	0	50	92
0076	3815.4	7359.0	X26727.9	Y42334.8	338	35.5		108	37	71	27	30	0	70	115
0077	3816.4	7402.7	X26749.5	Y42341.7	267	34.4	41.0	28	3	25	14	15	0	85	127
0078	3815.9	7410.8	X26793.1	Y42328.6	168	31.7		87	28	59	40	10	75	15	184
0079	3811.0	7410.7	X26785.9	Y42276.8	179	35.0		42	21	21	14	30	50	20	92
0080	3808.7	7409.7	X26777.6	Y42253.5	78	33.9	41.7	303	108	195	109	10	80	10	253



ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch						
	Position		Loran TD's	heading	Depth (FM)	Bottom		Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone	Inverts	Total Vol (Liters)
	Lat.	Long.				Temp (F)									
0121	3754.1	7429.0	X26858.5	Y42075.1	324	27.9	42.4	459	334	125	87	25	10	65	184
0122	3756.7	7432.8	X26881.6	Y42098.2	46	24.6		431	103	328	173	60	10	30	69
0123	3758.4	7429.1	X26865.2	Y42121.2	56	26.2		987	897	90	71	60	10	30	184
0124	3801.0	7424.6	X26845.7	Y42154.7	73	26.2	43.2	445	202	243	109	65	10	25	46
0125	3808.4	7416.0	X26810.8	Y42243.5	65	21.3		1440	797	643	260	70	5	25	138
0126	3811.1	7412.9	X26797.9	Y42275.5	325	30.1		390	224	166	102	30	40	30	69
0127	3816.0	7417.1	X26827.5	Y42323.5	116	26.2	43.5	3480	2946	534	234	30	40	30	92
0128	3815.9	7412.8	X26804.0	Y42326.6	63	26.8		892	722	170	92	60	10	30	184
0129	3818.7	7410.7	X26796.4	Y42358.4	265	29.5		2584	2012	572	264	50	0	50	138
0130	3818.6	7412.5	X26806.2	Y42355.6	320	27.9	42.4	3416	2684	732	408	70	0	30	115
0131	3821.3	7414.6	X26821.6	Y42382.4	118	29.5		2262	1764	498	246	20	15	65	207
0132	3823.5	7406.7	X26781.0	Y42412.8	13	30.1		293	199	94	56	10	20	70	230
0133	3826.2	7406.6	X26784.2	Y42441.4	263	27.9	42.6	3610	2655	955	380	70	5	25	92
C 0134	3826.2	7406.6	X26784.2	Y42441.4	266	27.9									
0135	3826.2	7410.3	X26804.9	Y42438.4	253	26.2		1704	1312	392	224	75	5	20	104
0136	3826.7	7412.6	X26818.5	Y42441.8	92	24.1		1384	1001	383	126	70	5	25	138
0137	3829.0	7407.4	X26792.6	Y42470.5	100	26.8	42.1	3140	2075	1065	460	75	5	20	161
0138	3828.9	7403.3	X26769.3	Y42472.6	104	28.4		8480	6640	1840	640	50	0	50	138
0139	3828.7	7400.5	X26753.1	Y42472.7	286	27.9		2821	2352	469	203	50	0	50	127
0140	3831.3	7402.7	X26769.2	Y42498.4	249	26.2	41.9	2380	1830	550	300	75	0	25	230
0141	3831.4	7406.2	X26789.3	Y42496.8	253	29.0		2387	1561	826	259	75	0	25	184
0142	3831.4	7412.7	X26826.2	Y42491.9	64	24.6		1338	1041	297	162	70	0	30	230
0143	3833.5	7406.5	X26794.1	Y42518.8	105	27.3	43.5								
0144	3833.8	7406.7	X26795.7	Y42521.9	110	27.3	43.3	435	165	270	180	25	5	70	276
0145	3833.7	7404.0	X26780.0	Y42522.7	112	29.0		348	103	245	169	40	20	40	368
0146	3833.6	7401.0	X26762.7	Y42523.8	116	27.9		880	420	460	248	40	10	50	322
0147	3834.0	7354.3	X26724.6	Y42532.7	51	27.9	41.4	4524	3144	1380	240	60	5	35	81
0148	3836.4	7352.1	X26714.9	Y42559.2	255	27.9		5930	2720	3210	860	55	5	40	138
0149	3836.3	7354.2	X26727.0	Y42556.8	247	26.2		598	314	284	78	40	0	60	184
0150	3835.6	7357.4	X26744.6	Y42547.3	11	24.6	42.3	2440	1000	1440	584	30	0	70	276
0151	3835.9	7358.2	X26749.7	Y42549.9	275	25.2		2312	972	1340	572	50	0	50	276
0152	3835.9	7402.6	X26775.1	Y42546.9	268	26.2		415	122	293	208	50	0	50	207
0153	3836.6	7408.4	X26809.6	Y42550.4	8	25.7	43.7	431	205	226	151	30	0	70	184
0154	3838.6	7404.9	X26792.4	Y42573.9	89	25.2		4730	4165	565	275	25	0	75	184
0155	3838.7	7356.5	X26743.6	Y42580.4	82	24.1		2014	1367	647	151	75	5	20	184
0156	3838.7	7354.9	X26734.3	Y42581.4	59	23.0	42.6	4101	2503	1598	286	55	5	40	104
0157	3838.6	7352.8	X26721.8	Y42581.6	59	24.1		2588	831	1757	460	20	5	75	184
C 0158	3838.3	7353.5	X26725.6	Y42578.1	64	24.1									
0159	3841.0	7346.8	X26689.6	Y42610.2	321	27.3		1466	852	614	108	20	70	10	184
0160	3843.1	7348.8	X26704.1	Y42630.8	28	24.6	42.3	917	462	455	141	50	10	40	184

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data					Number of Scallops						Trash By-Catch			
	Position		Loran TD's	heading	Bottom		Total No.	<90mm >40oct	>90mm <40oct	>100mm <30oct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.			Depth (FM)	Temp (F)									
* 0161	3848.0	7352.3	X26731.6	Y42679.8	108	24.6		71	20	51	42	30	0	70	276
0162	3846.3	7343.5	X26676.5	Y42666.6	84	25.2		516	359	157	35	15	0	85	230
0163	3846.4	7341.2	X26662.8	Y42668.8	99	27.3	41.0	681	447	234	92	20	50	30	552
0164	3843.6	7336.7	X26632.6	Y42642.4	49	32.3		10276	9982	294	112	50	0	50	92
0165	3846.5	7333.0	X26613.5	Y42673.8	271	32.8		2484	2082	402	276	10	0	90	184
0166	3846.1	7336.6	X26634.7	Y42668.0	51	29.5	40.8	1536	1224	312	144	15	0	85	230
0167	3848.6	7338.3	X26647.8	Y42692.7	287	29.0		539	267	272	103	50	20	30	207
* 0168	3854.5	7345.1	X26696.7	Y42750.4	63	23.0		385	64	321	78	5	5	90	966
0169	3856.1	7336.9	X26648.1	Y42769.8	193	24.6	41.0	52	22	30	10	5	45	50	460
0170	3854.0	7336.8	X26645.0	Y42748.4	114	23.5		94	17	77	26	5	40	55	345
0171	3851.3	7330.9	X26605.8	Y42723.3	52	30.1		2328	1920	408	174	10	40	50	345
0172	3853.5	7324.6	X26569.3	Y42747.8	183	31.7	40.6	3696	3552	144	36	40	20	40	69
0173	3851.2	7324.3	X26565.2	Y42724.9	64	36.1		942	308	634	436	15	5	80	161
* 0174	3851.4	7320.4	X26541.5	Y42728.4	78	36.6		507	114	393	295	25	25	50	276
0175	3851.6	7318.3	X26528.8	Y42731.2	2	38.3	41.0	640	84	556	405	30	40	30	161
0176	3858.4	7317.3	X26528.4	Y42799.0	40	34.4		331	32	299	261	15	0	85	184
0177	3901.1	7311.3	X26492.9	Y42827.2	269	37.7		137	9	128	103	10	0	90	230
0178	3901.2	7313.1	X26504.4	Y42827.7	297	37.2	41.2	242	5	237	219	15	0	85	207
0179	3903.6	7319.0	X26543.9	Y42850.2	251	32.3		1045	862	183	97	50	0	50	138
0180	3901.1	7328.7	X26602.7	Y42823.0	276	27.9		103	43	60	50	15	5	80	552
0181	3901.1	7330.8	X26616.0	Y42822.4	339	26.8	40.6	73	27	46	32	5	5	90	644
0182	3906.1	7333.2	X26637.2	Y42872.5	53	24.6		94	29	65	32	5	5	90	644
0183	3908.5	7329.4	X26615.8	Y42897.4	85	25.2		84	22	62	45	5	10	85	609
0184	3908.7	7320.9	X26561.2	Y42900.6	136	29.0	40.5	161	62	99	80	10	10	80	644
0185	3906.4	7319.1	X26547.3	Y42878.0	60	31.7		904	706	198	99	15	5	80	368
0186	3908.8	7315.1	X26523.9	Y42902.3	129	31.7		837	462	375	205	85	5	10	92
0187	3907.0	7311.0	X26495.8	Y42885.2	49	35.0	40.8	468	184	284	129	75	5	20	115
0188	3908.7	7308.9	X26483.7	Y42902.1	336	33.9		518	195	323	99	30	50	20	138
C 0189	3908.8	7309.0	X26484.5	Y42903.0	341	33.9									
0190	3911.0	7311.6	X26503.2	Y42924.3	333	35.0		563	157	406	212	80	0	20	138
0191	3914.2	7311.3	X26504.1	Y42955.7	321	32.8	40.8	667	379	288	145	50	0	50	115
0192	3913.5	7314.5	X26524.5	Y42948.7	28	32.3		285	193	92	29	5	85	10	299
0193	3916.2	7312.9	X26516.5	Y42975.3	260	33.4		209	127	82	40	20	10	70	161
0194	3916.1	7318.6	X26554.1	Y42974.3	265	29.0	40.6	101	47	54	19	5	20	75	414
* 0195	3914.3	7332.2	X26641.2	Y42955.6	33	21.3		66	7	59	51	15	5	80	529
0196	3918.9	7328.4	X26622.2	Y43002.1	71	25.2	42.6	49	8	41	31	15	5	80	414
0197	3918.5	7321.0	X26572.6	Y42998.0	32	25.7		44	1	43	40	5	20	75	575
0198	3925.9	7312.4	X26523.1	Y43070.4	156	29.0		19	2	17	17	15	5	80	644
0199	3923.6	7310.6	X26508.5	Y43047.7	155	30.1	40.6	44	10	34	28	1	0	99	874
0200	3914.0	7257.0	X26410.1	Y42954.2	322	38.8		174	6	168	130	2	0	98	184

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data						Number of Scallops				Trash By-Catch			
	Position		Loran		Depth (FM)	Bottom Temp (F)	Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)
	Lat.	Long.	TD's	heading										
C 0201	3914.1	7257.3	X26412.1	Y42955.2	315	39.9								
0202	3916.2	7259.3	X26426.7	Y42975.3	351	37.7	134	8	126	109	5	0	95	184
C 0203	3916.2	7259.4	X26427.4	Y42975.3	346	37.7								
0204	3918.3	7259.1	X26426.9	Y42995.5	76	33.4	551	356	195	103	15	0	85	92
0205	3919.2	7252.4	X26382.9	Y43003.8	301	38.8	400	13	387	322	10	10	80	184
0206	3921.8	7258.9	X26428.1	Y43029.1	349	37.2	124	35	89	63	10	10	80	161
0207	3923.8	7259.1	X26431.0	Y43048.3	90	30.6	590	396	194	90	75	5	20	92
0208	3923.5	7256.7	X26414.5	Y43045.2	133	35.0	1299	99	1200	867	45	10	45	138
0209	3926.2	7248.7	X26362.1	Y43069.7	326	36.1	899	108	791	431	55	5	40	138
0210	3928.7	7250.8	X26378.0	Y43093.7	263	31.7	764	477	287	169	60	10	30	138
0211	3929.3	7251.8	X26385.2	Y43099.5	236	33.4	644	383	261	173	75	10	15	115
0212	3928.9	7254.6	X26404.2	Y43096.3	352	32.8	598	379	219	87	70	0	30	92
0213	3931.2	7254.8	X26407.3	Y43118.2	301	31.2	377	233	144	78	50	0	50	92
0214	3933.6	7258.3	X26433.5	Y43141.9	284	32.3	298	182	116	62	15	0	85	230
0215	3935.8	7304.5	X26478.9	Y43164.7	192	23.5	39	9	30	24	5	10	85	736
0216	3938.1	7256.3	X26423.5	Y43184.1	68	32.8	329	185	144	84	5	5	90	368
0217	3943.7	7250.7	X26388.4	Y43234.8	303	37.7	7	1	6	6	1	0	99	184
0218	3940.9	7259.0	X26445.2	Y43211.7	314	31.7	80	15	65	55	15	0	85	230
0219	3943.4	7258.4	X26443.4	Y43235.2	265	31.7	130	20	110	97	10	0	90	138
0220	3941.1	7302.8	X26472.5	Y43215.0	352	24.6	33	11	22	13	5	20	75	483
0221	3946.2	7302.6	X26476.6	Y43263.6	252	27.3	188	51	137	112	15	15	70	184
0222	3946.3	7306.7	X26506.4	Y43266.4	64	24.1	28	2	26	14	5	20	75	759
0223	3948.6	7302.8	X26480.8	Y43286.6	319	34.4	1	1	0	0	15	5	80	46
0224	3951.0	7308.3	X26523.9	Y43312.3	280	26.2	261	130	131	97	40	20	40	184
0225	3953.4	7316.7	X26588.9	Y43339.8	347	25.2	216	85	131	88	30	30	40	138
0226	3956.7	7317.1	X26597.0	Y43372.0	121	42.7	0	0	0	0	5	0	95	58
0227	3958.6	7311.6	X26559.1	Y43387.0	278	30.6	5	5	0	0	70	0	30	23
0228	3958.9	7318.3	X26609.5	Y43394.1	315	33.9	5	4	1	1	2	0	98	276
0229	4001.4	7320.1	X26627.2	Y43419.4	284	25.2	404	189	215	84	5	0	95	276
0230	4002.0	7327.3	X26682.1	Y43430.0	317	30.1	3	2	1	1	10	0	90	322
0231	3958.9	7330.3	X26698.6	Y43401.5	244	20.8	63	6	57	33	2	0	98	598
0232	3956.5	7340.5	X26768.9	Y43383.5	14	15.3	64	22	42	12	1	4	95	1058
0233	4007.2	7338.1	X26773.6	Y43488.8	348	26.2	0	0	0	0	2	0	98	46
0234	4008.6	7344.5	X26824.7	Y43507.4	354	15.3	96	17	79	46	10	5	85	322
0235	4018.8	7344.8	X26851.4	Y43609.3	156	12.6	0	0	0	0	20	25	55	46
0236	4010.7	7338.0	X26780.5	Y43523.4	102	18.6	13	1	12	9	30	10	60	46
0237	4011.5	7322.4	X26663.1	Y43518.6	123	18.6	122	6	116	87	15	10	75	276
0238	4005.8	7301.2	X26491.0	Y43448.0	98	23.5	71	8	63	41	5	0	95	552
0239	3959.0	7258.7	X26463.1	Y43382.5	74	26.8	327	123	204	94	25	25	50	92
0240	4003.8	7241.1	X26335.2	Y43414.9	47	30.6	79	19	60	36	5	0	95	368

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch						
	Position		Loran TD's	heading	Depth (FM)	Bottom Temp (F)	Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.													
0241	4011.1	7233.0	X26279.6	Y43474.2	349	31.2		28	12	16	13	5	0	95	184
0242	4013.7	7232.6	X26278.8	Y43496.9	262	28.4		81	22	59	43	5	0	95	58
0243	4013.7	7246.6	X26388.5	Y43509.0	289	26.8	43.0	118	60	58	34	30	10	60	161
0244	4018.6	7256.6	X26474.2	Y43562.6	39	20.8		195	28	167	111	5	5	90	690
0245	4031.2	7240.9	X26366.9	Y43659.4	347	20.2		100	1	99	68	10	10	80	1058
0246	4036.2	7240.5	X26371.4	Y43702.7	127	17.5	45.9								
0247	4036.3	7239.3	X26361.6	Y43702.1	274	18.0		79	14	65	53	35	5	60	161
0248	4026.5	7227.3	X26249.6	Y43603.9	144	25.2		47	10	37	31	5	0	95	897
0249	4021.7	7218.8	X26176.5	Y43554.1	98	29.5		80	21	59	57	5	0	95	391
0250	4021.4	7209.0	X26097.9	Y43542.3	334	32.3	42.6	60	54	6	3	40	0	60	161
0251	4026.4	7207.0	X26084.9	Y43582.3	343	30.6		1316	1260	56	20	20	20	60	115
0252	4031.2	7206.6	X26085.0	Y43621.9	29	28.4		26	8	18	14	15	15	70	552
0253	4033.9	7202.6	X26054.2	Y43639.9	268	27.9	43.9	14	5	9	8	10	10	80	184
0254	4033.8	7212.1	X26132.7	Y43649.6	240	26.2		127	44	83	69	10	10	80	644
0255	4031.5	7218.8	X26185.6	Y43637.6	355	25.2		31	8	23	22	10	10	80	276
0256	4033.4	7218.8	X26187.7	Y43653.7	336	25.2	44.4	1030	485	545	58	10	10	80	322
0257	4041.2	7224.4	X26244.5	Y43725.9	54	19.1		74	5	69	55	10	5	85	1081
0258	4048.4	7212.4	X26153.0	Y43770.3	148	19.1		258	29	229	210	10	5	85	1196
0259	4046.4	7211.0	X26138.2	Y43752.2	144	20.8	47.1	99	14	85	72	10	5	85	1334
0260	4041.1	7206.8	X26096.0	Y43703.7	137	23.5		156	62	94	61	5	10	85	644
0261	4038.7	7152.8	X25976.2	Y43667.9	45	28.4		130	77	53	19	50	0	50	92
0262	4043.7	7146.6	X25927.7	Y43700.4	262	29.0	43.5	35	21	14	13	15	0	85	138
0263	4043.9	7148.3	X25942.2	Y43704.1	181	27.9		62	27	35	21	20	30	50	276
0264	4043.7	7152.7	X25979.4	Y43707.7	293	24.1		16	5	11	6	5	0	95	506
0265	4048.5	7200.6	X26051.9	Y43755.8	357	19.7	47.3	50	4	46	29	5	0	95	644
0266	4053.5	7200.4	X26057.0	Y43795.3	107	16.4		8	0	8	6	10	10	80	299
0267	4051.3	7144.6	X25917.4	Y43757.4	39	27.3		21	8	13	10	20	5	75	69
0268	4029.2	6956.8	W14119.5	Y43485.5	34	36.1	44.2	0	0	0	0	98	0	2	10
0269	4033.8	6953.5	W14086.4	Y43514.2	87	32.3		0	0	0	0	0	0	100	23
* 0270	4034.1	6943.6	W14033.4	Y43508.1	40	33.4		1341	4	1337	1337	20	0	80	138
0271	4038.9	6939.4	W13994.4	Y43536.6	44	26.2	49.5	8	7	1	0	30	0	70	92
0272	4033.9	6938.6	W14008.2	Y43502.8	105	32.8		1152	3	1149	1149	50	0	50	230
0273	4032.9	6933.2	W13983.9	Y43491.9	192	32.8		84	2	82	81	5	0	95	138
0274	4024.0	6940.8	W14053.9	Y43438.0	83	36.6	44.1	0	0	0	0	70	0	30	506
0275	4028.5	6929.0	W13978.1	Y43459.6	165	32.8		159	4	155	148	60	0	40	736
0276	4024.0	6926.5	W13981.2	Y43428.1	53	36.1		16	4	12	11	40	20	40	828
0277	4026.5	6922.9	W13954.3	Y43442.1	10	36.6	47.3	96	4	92	92	45	10	45	644
0278	4036.4	6920.6	W13907.0	Y43505.0	75	28.4		103	29	74	49	5	20	75	460
0279	4034.0	6908.9	W13857.1	Y43480.7	353	35.5		689	18	671	671	70	0	30	138
* 0280	4037.9	6910.4	W13850.1	Y43506.7	330	37.2	49.6	1461	30	1431	1425	25	0	75	173

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data					Number of Scallops				Trash By-Catch					
	Position		Loran TD's	heading	Bottom		Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.			Depth (FM)	Temp (F)									
0281	4038.1	6913.0	W13862.3	Y43510.0	24	31.2									
* 0282	4039.3	6914.3	W13864.3	Y43518.7	25	31.7	590	46	544	479	50	0	50	230	
* 0283	4042.5	6909.0	W13825.6	Y43534.8	129	37.2	50.0	1563	33	1530	1480	50	0	50	276
* 0284	4044.3	6908.4	W13815.7	Y43545.7	180	32.8		2415	35	2380	2215	70	0	30	230
0285	4046.3	6908.3	W13807.4	Y43558.2	310	35.5		2389	180	2209	1885	75	0	25	184
* 0286	4047.5	6909.0	W13806.3	Y43566.4	205	36.1	50.7	3506	467	3039	2437	60	0	40	184
0287	4047.5	6909.5	W13808.8	Y43566.8	197	35.0		3399	572	2827	2024	70	0	30	184
0288	4043.7	6914.4	W13848.2	Y43546.9	255	30.6		1679	39	1640	1520	60	20	20	92
* 0289	4043.0	6917.8	W13868.1	Y43545.2	346	21.3	50.5	495	5	490	490	60	0	40	92
* 0290	4049.3	6918.4	W13846.9	Y43585.9	0	24.6		280	136	144	127	40	30	30	115
0291	4055.2	6915.8	W13810.4	Y43620.7	0	29.5		61	36	25	21	15	70	15	828
0292	4056.1	6907.1	W13762.5	Y43618.3	149	41.0	45.9	1698	618	1080	210	20	60	20	230
* 0293	4047.4	6901.0	W13766.6	Y43559.0	152	38.3		1925	214	1711	1655	20	20	60	460
0294	4043.8	6858.6	W13768.8	Y43534.6	164	33.9		406	156	250	133	20	50	30	230
* 0295	4040.8	6902.4	W13799.2	Y43518.9	187	37.2	48.9	807	43	764	762	20	0	80	782
0296	4041.5	6854.7	W13758.6	Y43517.3	196	35.0		77	8	69	23	70	0	30	345
0297	4033.9	6858.6	W13806.8	Y43472.5	143	37.2		17	2	15	14	25	0	75	46
0298	4028.8	6852.7	W13797.2	Y43436.3	83	38.3	45.5	3	1	2	2	75	0	25	230
0299	4031.2	6843.1	W13742.1	Y43445.0	353	36.6		1	0	1	1	80	0	20	161
0300	4033.3	6842.7	W13732.2	Y43457.7	355	34.4		0	0	0	0	80	0	20	115
0301	4033.7	6837.2	W13704.6	Y43456.4	177	36.1	47.3	18	0	18	17	80	0	20	184
0302	4028.9	6817.4	W13631.1	Y43414.7	8	53.6		0	0	0	0	85	0	15	92
0303	4033.7	6805.1	W13556.7	Y43435.8	148	51.9		21	21	0	0	90	0	10	529
0304	4034.0	6757.2	W13520.4	Y43432.8	143	49.8	48.0								
0305	4033.4	6756.8	W13521.0	Y43429.1	318	50.9									
0306	4033.9	6756.8	W13519.0	Y43432.0	36	50.3									
0307	4036.1	6744.8	W13457.7	Y43437.6	263	44.8		36	32	4	4	90	0	10	828
0308	4036.3	6758.7	W13517.8	Y43447.2	25	48.1		5	4	1	1	80	15	5	1035
0309	4036.2	6808.2	W13560.7	Y43452.5	275	48.7	43.9	24	15	9	9	80	5	15	506
0310	4035.8	6824.3	W13636.0	Y43460.6	264	41.6		0	0	0	0	90	0	10	276
0311	4038.6	6836.2	W13680.8	Y43485.7	301	31.2		19	2	17	16	5	0	95	46
0312	4041.0	6846.8	W13722.1	Y43508.2	332	33.9	49.5	138	34	104	85	60	0	40	115
0313	4045.8	6850.8	W13722.7	Y43540.8	67	34.4		453	35	418	315	50	0	50	92
0314	4051.2	6843.0	W13663.1	Y43567.5	261	30.6		18	0	18	15	15	0	85	276
0315	4051.4	6851.1	W13701.8	Y43575.4	301	35.0	51.1	121	13	108	88	10	70	20	46
0316	4053.8	6855.3	W13712.8	Y43593.7	357	37.7									
0317	4053.5	6855.2	W13713.5	Y43591.8	172	36.1		99	19	80	65	50	0	50	46
0318	4057.8	6849.4	W13667.2	Y43612.9	173	41.0		621	81	540	483	50	40	10	138
0319	4101.4	6850.7	W13658.7	Y43635.7	326	35.0	52.9								
0320	4100.9	6851.2	W13663.2	Y43633.2	356	35.0		1510	100	1410	1276	70	10	20	736

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data						Number of Scallops				Trash By-Catch				
	Position		Loran		Depth (FM)	Bottom Temp (F)	Total No.	<90mm >40oct	>90mm <40oct	>100mm <30oct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.	TD's	heading											
0321	4108.5	6854.7	W13648.5	Y43682.1	358	51.4									
0322	4109.3	6854.7	W13645.1	Y43686.9	180	53.0	24	0	24	24	10	0	90	483	
0323	4113.8	6855.1	W13627.7	Y43714.1	83	53.6									
0324	4113.3	6855.0	W13629.3	Y43711.0	9	53.0									
0325	4114.1	6855.0	W13625.9	Y43715.8	174	53.6	265	43	222	206	50	0	50	46	
0326	4114.0	6849.2	W13597.2	Y43709.3	45	49.8	39.0								
0327	4114.7	6847.9	W13587.7	Y43712.2	205	47.0	3	0	3	3	2	0	98	1035	
0328	4118.8	6844.2	W13551.2	Y43732.4	98	47.0	53	1	52	51	30	20	50	92	
0329	4119.4	6842.7	W13541.1	Y43734.3	17	47.6	39	1	38	37	50	0	50	92	
0330	4123.8	6839.6	W13505.9	Y43756.5	245	51.9	38.8								
0331	4124.1	6840.6	W13509.4	Y43759.2	115	53.6	271	33	238	217	30	0	70	322	
0332	4124.0	6842.6	W13519.8	Y43760.8	33	53.0	181	4	177	174	20	0	80	115	
0333	4126.3	6840.9	W13500.8	Y43772.2	54	54.1	340	6	334	323	25	0	75	230	
0334	4128.4	6837.5	W13474.4	Y43780.5	70	54.1	38.5	81	2	79	76	10	0	90	207
0335	4128.9	6830.9	W13439.7	Y43776.4	37	49.2	204	2	202	200	10	0	90	138	
0336	4131.5	6829.5	W13420.8	Y43789.5	347	48.7	16	1	15	15	20	0	80	46	
0337	4136.3	6830.1	W13400.9	Y43816.8	108	64.0	38.7								
0338	4136.3	6829.7	W13399.0	Y43816.4	219	60.7	9	0	9	8	3	2	95	460	
0339	4133.3	6826.5	W13397.7	Y43796.3	187	29.5	53	13	40	33	50	0	50	81	
0340	4129.1	6825.3	W13411.7	Y43771.7	179	36.6	57	9	48	43	10	0	90	81	
0341	4123.8	6825.0	W13434.9	Y43741.6	180	33.4	46.9	108	11	97	63	50	0	50	184
0342	4121.1	6824.7	W13445.8	Y43726.1	298	32.8	70	6	64	56	15	0	85	184	
0343	4123.5	6828.8	W13454.6	Y43743.7	323	38.8	817	474	343	67	50	0	50	104	
0344	4121.6	6834.3	W13489.9	Y43738.5	179	39.9	40.3	422	24	398	388	15	0	85	127
0345	4119.2	6834.5	W13501.7	Y43724.9	173	35.5	358	5	353	353	30	0	70	138	
0346	4116.4	6835.0	W13516.7	Y43709.3	265	33.4									
0347	4116.6	6835.0	W13515.8	Y43710.5	175	33.9									
0348	4116.1	6834.9	W13517.6	Y43707.5	334	31.7	795	49	746	696	25	0	75	138	
0349	4116.4	6840.4	W13543.1	Y43714.6	155	36.6	46.6	190	7	183	176	10	20	70	115
0350	4113.9	6838.2	W13543.4	Y43697.9	96	32.3	753	24	729	698	20	0	80	138	
0351	4113.7	6834.6	W13526.8	Y43693.3	149	28.4	318	9	309	302	40	10	50	138	
0352	4111.2	6833.4	W13532.0	Y43677.7	267	35.5	54.9	1067	75	992	911	70	10	20	322
0353	4110.8	6836.9	W13550.7	Y43678.6	224	32.8	147	34	113	98	60	10	30	92	
0354	4108.6	6840.2	W13576.4	Y43668.8	266	33.4	4396	1379	3017	2488	70	0	30	276	
0355	4108.1	6845.1	W13602.6	Y43670.5	278	35.0	50.7	2800	660	2140	1496	50	0	50	265
0356	4109.0	6849.3	W13619.5	Y43679.9	250	43.2	130	11	119	117	40	0	60	92	
0357	4106.4	6848.7	W13627.6	Y43663.8	93	36.1	250	13	237	226	5	75	20	184	
0358	4053.7	6752.6	W13418.9	Y43543.2	59	32.8	71	15	56	45	80	0	20	299	
0359	4056.0	6746.2	W13380.9	Y43551.5	81	31.2	122	12	110	86	60	0	40	230	
0360	4101.0	6739.1	W13328.3	Y43574.1	88	33.4	117	9	108	105	70	0	30	414	







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July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch						
	Position		Loran TD's	heading	Depth (FM)	Temp (F)	Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.													
0441	4153.6	6622.5	W12775.1	Y43781.3	336	43.2	42.6	124	38	86	80	70	15	15	127
0442	4158.7	6624.5	W12756.5	Y43807.2	20	43.2		533	427	106	92	15	70	15	322
0443	4203.6	6623.2	W12726.9	Y43829.0	65	42.7		2293	2031	262	224	10	80	10	690
0444	4206.6	6613.1	W12676.1	Y43833.8	256	54.1	42.6	3112	1084	2028	559	5	90	5	828
0445	4206.5	6616.6	W12688.7	Y43836.5	238	52.5		0	0	0	0	0	100	0	460
0446	4206.5	6630.5	W12738.1	Y43849.2	259	43.7		246	102	144	144	6	90	4	322
0447	4201.9	6638.8	W12792.4	Y43835.3	322	39.9	47.8	445	328	117	103	15	80	5	368
0448	4206.1	6640.6	W12777.3	Y43856.9	236	39.9		2044	1952	92	81	10	85	5	644
0449	4203.8	6642.2	W12795.3	Y43847.6	266	38.3		1980	1698	282	138	25	50	25	414
0450	4203.0	6646.5	W12815.7	Y43847.9	315	37.7	48.2	73	68	5	4	10	80	10	46
0451	4206.1	6646.8	W12800.7	Y43862.9	280	35.5		142	128	14	14	10	80	10	276
0452	4205.5	6648.9	W12811.8	Y43862.1	204	35.0		3347	3173	174	129	10	80	10	414
0453	4203.9	6650.6	W12826.7	Y43856.1	263	36.1	41.7	572	439	133	104	60	20	20	299
0454	4203.8	6654.8	W12843.4	Y43859.8	346	32.3		2175	1978	197	137	35	33	32	506
0455	4208.6	6656.6	W12825.2	Y43884.5	279	42.7		8404	8305	99	95	1	98	1	279
0456	4204.0	6656.9	W12850.5	Y43862.8	258	30.1	44.8	444	313	131	115	40	10	50	184
0457	4204.0	6702.8	W12873.8	Y43868.6	2	30.1		694	514	180	113	30	60	10	621
0458	4206.8	6702.6	W12858.3	Y43881.9	315	31.7	47.1	2221	2019	202	167	60	30	10	644
0459	4209.5	6705.9	W12857.2	Y43898.3	228	48.1		316	195	121	113	20	50	30	345
0460	4206.3	6706.7	W12877.3	Y43883.7	264	29.0		952	528	424	418	40	2	58	161
* 0461	4206.8	6710.2	W12888.8	Y43889.7	210	30.1	47.1	35	1	34	33	10	80	10	644
C 0462	4206.7	6710.2	W12889.3	Y43889.2	206	29.0		130	28	102	97	15	70	15	322
C 0463	4201.3	6710.7	W12919.6	Y43863.5	188	26.8		2000	956	1044	832	50	20	30	506
0464	4201.2	6710.8	W12920.6	Y43863.1	207	26.8		3049	1544	1505	1251	60	10	30	552
0465	4159.3	6710.9	W12930.8	Y43853.9	103	25.7	53.6	309	150	159	114	85	5	10	1150
0466	4156.3	6700.3	W12903.7	Y43828.8	113	26.8		0	0	0	0	10	0	90	207
0467	4149.1	6709.3	W12976.4	Y43801.8	307	29.5		125	31	94	66	90	3	7	391
0468	4156.3	6712.8	W12954.0	Y43841.0	156	29.0	53.8	57	9	48	44	65	25	10	184
0469	4156.2	6714.3	W12960.7	Y43842.0	260	27.9									
0470	4156.9	6715.9	W12963.7	Y43847.0	150	38.3									
0471	4156.5	6715.0	W12962.0	Y43844.2	171	30.1		263	84	179	142	85	5	10	644
0472	4156.3	6719.9	W12983.3	Y43848.1	263	24.6		135	41	94	63	90	5	5	1794
0473	4156.5	6722.9	W12994.9	Y43852.1	356	20.8	55.6	0	0	0	0	2	0	98	644
0474	4158.7	6722.5	W12981.8	Y43862.7	10	26.8		428	177	251	177	60	30	10	1104
0475	4203.9	6718.3	W12937.2	Y43884.0	51	25.7		2433	100	2333	2310	30	30	40	368
0476	4206.1	6714.3	W12909.2	Y43890.6	110	26.2	51.4	45	2	43	41	5	90	5	506
C 0477	4206.4	6714.4	W12908.0	Y43892.1	131	27.3		43	5	38	37	5	80	15	598
* 0478	4207.5	6713.7	W12899.3	Y43896.8	44	39.9		329	17	312	309	15	5	80	230
C 0479	4208.4	6712.3	W12888.8	Y43899.7	276	48.7	41.2	1197	3	1194	1194	1	0	99	828
0480	4208.4	6712.5	W12889.7	Y43899.9	270	49.2		1131	0	1131	1131	2	0	98	874

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch							
	Position		Loran TD's	heading	Depth (FM)	Bottom Temp (F)			Total No.	<90mm >40ct	>90mm <40ct	>100mm <30ct	Shell (Percentage)	Stone (Percentage)	Inverts	Total Vol (Liters)
	Lat.	Long.														
0481	4208.7	6717.1	W12906.9	Y43906.2	264	60.7			205	1	204	203	2	0	98	414
0482	4206.4	6718.7	W12925.7	Y43896.7	262	35.0			1141	42	1099	1092	30	0	70	276
0483	4206.3	6722.0	W12940.0	Y43899.7	240	36.6	47.1		19	7	12	10	70	20	10	138
0484	4205.9	6728.2	W12968.2	Y43904.3	147	49.8										
0485	4206.2	6728.4	W12967.5	Y43906.0	235	58.5			115	19	96	81	90	0	10	184
0486	4203.6	6726.5	W12973.1	Y43891.1	227	27.3			154	92	62	45	3	95	2	368
0487	4204.1	6730.1	W12985.8	Y43897.5	237	38.3	51.3		59	8	51	48	10	5	85	115
0488	4201.2	6733.7	W13016.4	Y43886.9	249	25.7			167	108	59	56	90	3	7	253
0489	4201.6	6739.8	W13040.9	Y43895.5	269	40.5			75	42	33	31	20	0	80	81
0490	4158.6	6740.6	W13060.0	Y43881.2	271	24.6	49.3		39	9	30	26	30	35	35	230
0491	4159.0	6744.7	W13076.0	Y43887.7	251	31.2			11	1	10	9	10	5	85	644
0492	4156.6	6745.9	W13093.7	Y43876.8	244	25.7			4	0	4	4	4	1	95	1242
0493	4156.5	6749.0	W13108.1	Y43879.6	228	31.7	45.0		11	1	10	9	13	2	85	552
0494	4151.6	6738.9	W13088.4	Y43843.8	222	18.0			7	5	2	0	60	30	10	1196
0495	4147.0	6742.7	W13128.3	Y43824.0	214	15.3										
0496	4146.0	6742.6	W13132.9	Y43818.8	300	26.2			0	0	0	0	80	1	19	552
0497	4143.9	6749.2	W13172.6	Y43814.6	178	14.2	55.8									
0498	4143.2	6749.1	W13175.7	Y43810.8	18	12.6										
C 0499	4143.9	6756.9	W13207.4	Y43822.5	348	15.9										
0500	4148.8	6756.9	W13182.9	Y43848.3	30	24.1			27	1	26	22	4	1	95	276
0501	4151.5	6749.3	W13135.0	Y43854.2	351	19.1	55.0		72	10	62	54	75	2	23	368
0502	4153.5	6750.1	W13128.4	Y43865.4	257	22.4			4	0	4	4	5	5	90	736
0503	4153.5	6753.0	W13141.4	Y43868.5	299	29.5			4	0	4	4	8	0	92	828
0504	4156.1	6752.7	W13126.8	Y43881.6	246	43.2	44.8		76	12	64	64	8	2	90	253
0505	4153.4	6758.6	W13167.4	Y43874.1	190	45.4			58	17	41	40	5	20	75	230
0506	4151.1	6759.1	W13181.4	Y43862.7	257	32.8			64	29	35	24	5	10	85	322
0507	4148.5	6812.6	W13257.3	Y43863.8	187	51.4	39.4		9	0	9	9	4	6	90	276
0508	4146.4	6812.4	W13266.8	Y43852.4	227	36.1			11	3	8	6	50	0	50	23
0509	4144.4	6814.2	W13285.2	Y43843.7	257	29.0			90	5	85	68	50	0	50	46
0510	4143.7	6816.4	W13299.1	Y43842.3	250	28.4	44.4		57	0	57	57	20	0	80	46
0511	4146.1	6818.5	W13297.2	Y43857.5	222	50.3			0	0	0	0	99	0	1	276
0512	4144.0	6820.5	W13317.2	Y43848.4	207	42.1			0	0	0	0	1	29	70	368
0513	4141.6	6822.7	W13339.5	Y43837.8	214	33.4	46.0		6	5	1	1	40	0	60	23
0514	4106.2	6843.1	W13600.9	Y43657.4	271	31.2			186	5	181	171	25	0	75	60
0515	4105.9	6846.4	W13618.4	Y43658.7	172	35.0			1582	101	1481	1268	50	10	40	460
* 0516	4104.0	6845.4	W13621.6	Y43646.4	179	32.8	54.3									
* 0517	4103.3	6844.4	W13619.6	Y43641.4	316	34.4			1519	106	1413	1266	60	5	35	184
0518	4100.9	6841.1	W13613.7	Y43624.1	284	32.3			0	0	0	0	20	60	20	276
0519	4101.7	6844.6	W13627.4	Y43632.0	193	34.4										
0520	4100.5	6844.7	W13632.9	Y43624.9	9	35.0			396	29	367	308	50	0	50	138

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July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch							
	Position		Loran TD's	heading	Depth (FM)	Bottom Temp (F)			Total No.	<90mm >40oct	>90mm <40oct	>100mm <30oct	Shell (Percentage)	Stone (Percentage)	Inverts	Total Vol (Liters)
	Lat.	Long.														
0521	4058.8	6844.7	W13640.0	Y43614.7	326	33.4	54.9	11	10	1	1	35	60	5	184	
0522	4101.3	6847.0	W13640.8	Y43631.8	269	33.4		15	2	13	8	10	0	90	92	
C 0523	4101.1	6858.6	W13699.2	Y43641.2	158	38.3		367	205	162	83	60	30	10	75	
0524	4101.8	6900.8	W13707.4	Y43647.5	179	42.7		297	230	67	41	25	70	5	322	
0525	4104.3	6900.6	W13696.0	Y43662.5	191	47.0	47.5	1391	241	1150	1126	10	5	85	92	
C 0526	4103.9	6900.7	W13698.1	Y43660.2	195	47.0		1408	208	1200	1168	15	10	75	166	
C 0527	4104.0	6904.5	W13716.9	Y43664.4	209	44.8		30	4	26	25	33	33	34	92	
0528	4104.3	6904.4	W13715.2	Y43666.2	207	47.6		80	9	71	63	20	45	35	102	
0529	4108.6	6901.1	W13680.3	Y43689.0	238	51.9		164	4	160	159	45	0	55	19	
0530	4105.9	6908.3	W13728.4	Y43679.8	156	44.8	41.4	208	62	146	126	10	70	20	479	
0531	4100.9	6907.7	W13746.0	Y43648.5	336	37.2		281	208	73	58	5	90	5	529	
0532	4103.8	6912.9	W13760.7	Y43671.4	318	29.5										
0533	4104.1	6913.4	W13762.0	Y43673.8	116	26.2		667	409	258	197	5	90	5	460	
0534	4101.4	6914.5	W13778.8	Y43658.2	325	30.1	44.1	1291	707	584	244	15	75	10	506	
0535	4103.8	6917.3	W13783.4	Y43675.8	284	27.9		2160	1710	450	216	10	50	40	529	
0536	4103.9	6922.7	W13811.1	Y43681.8	31	20.2		2	2	0	0	50	0	50	1426	
0537	4106.7	6920.7	W13789.1	Y43697.2	178	24.1	45.0	102	49	53	49	35	30	35	483	
0538	4109.6	6920.5	W13776.0	Y43714.9	198	25.7		516	383	133	120	10	85	5	598	
0539	4106.6	6916.5	W13767.7	Y43692.3	213	29.0		1084	992	92	63	10	70	20	414	
0540	4109.8	6912.2	W13732.0	Y43707.5	210	37.2	41.9	4	3	1	1	5	85	10	644	
* 0541	4111.0	6859.5	W13662.0	Y43701.8	248	54.1		365	7	358	358	45	0	55	46	
* 0542	4110.9	6859.6	W13662.9	Y43701.3	250	54.1		163	2	161	160	25	0	75	69	
0543	4116.3	6912.5	W13705.8	Y43747.2	216	49.2	39.2	38	4	34	30	80	10	10	35	
0544	4111.5	6917.3	W13751.3	Y43723.2	323	27.3		95	35	60	59	35	60	5	506	
0545	4113.5	6918.4	W13748.6	Y43736.6	331	29.0		58	29	29	26	5	75	20	414	
0546	4113.6	6925.1	W13783.4	Y43744.5	21	21.9	44.2	118	13	105	105	10	65	25	644	
0547	4115.7	6924.7	W13772.4	Y43756.9	3	21.9		8	4	4	4	30	10	60	69	
0548	4116.2	6922.6	W13759.2	Y43757.7	57	25.7		10	2	8	8	70	10	20	46	
C 0549	4116.2	6922.6	W13759.2	Y43757.7	53	25.2		30	9	21	19	65	5	30	92	
C 0550	4118.6	6918.7	W13728.3	Y43767.9	264	42.7		54	6	48	46	40	35	25	84	
0551	4118.7	6918.5	W13726.8	Y43768.3	250	43.2	39.9	47	8	39	35	15	5	80	92	
0552	4118.9	6920.5	W13736.5	Y43771.8	336	36.6		40	8	32	32	55	25	20	138	
0553	4120.8	6922.9	W13741.0	Y43786.0	347	24.1		17	6	11	11	70	0	30	65	
C 0554	4121.2	6923.0	W13739.8	Y43788.5	335	24.6		81	5	76	70	75	0	25	107	
C 0555	4123.5	6922.5	W13727.0	Y43801.8	13	25.7	42.1	454	339	115	93	15	60	25	276	
0556	4123.4	6922.8	W13729.1	Y43801.6	24	24.6		503	321	182	154	15	65	20	138	
0557	4128.4	6920.6	W13695.2	Y43829.0	351	42.7		183	11	172	129	65	0	35	46	
0558	4129.2	6922.6	W13702.3	Y43836.1	153	36.6		32	2	30	28	75	0	25	65	
C 0559	4128.2	6922.1	W13704.1	Y43829.5	1	36.6		38	3	35	32	55	5	40	18	
C 0560	4129.1	6924.7	W13714.0	Y43838.0	181	28.4		662	24	638	587	40	55	5	1150	

ALBATROSS IV 2004 SEA SCALLOP SURVEY  
July 06 - August 06

Station	Station Data				Number of Scallops				Trash By-Catch						
	Position		Loran TD's	heading	Depth (FM)	Bottom Temp (F)	Total No.	<90mm >40oct	>90mm <40oct	>100mm <30oct	Shell (Percentage)	Stone (Percentage)	Inverts	Total Vol (Liters)	
	Lat.	Long.													
0561	4128.1	6924.4	W13716.8	Y43831.7	345	26.2	40.6	302	21	281	243	7	90	3	1058
0562	4126.3	6928.7	W13747.9	Y43826.0	33	18.6		423	356	67	55	5	60	35	690
0563	4131.2	6924.9	W13705.7	Y43850.8	267	32.8		303	18	285	270	10	85	5	1219
C 0564	4131.2	6924.8	W13705.1	Y43850.7	258	33.4		723	35	688	636	5	90	5	943
C 0565	4133.8	6928.8	W13715.0	Y43871.1	266	30.1		0	0	0	0	30	60	10	874
0566	4133.8	6929.0	W13716.0	Y43871.3	263	30.6	40.6	1	1	0	0	15	70	15	782
0567	4133.7	6930.7	W13725.7	Y43872.9	5	27.3		2	2	0	0	45	35	20	598
C 0568	4133.7	6930.7	W13725.7	Y43872.9	17	27.9		1	1	0	0	45	20	35	247
C 0569	4136.5	6931.3	W13716.3	Y43890.3	289	39.9		815	42	773	630	10	85	5	571
0570	4136.6	6931.7	W13718.0	Y43891.4	292	40.5		550	62	488	386	10	85	5	516
0571	4138.3	6938.3	W13746.6	Y43910.0	288	36.6	39.6	83	26	57	44	65	0	35	21
C 0572	4138.2	6939.7	W13754.8	Y43911.3	74	33.4		180	87	93	86	35	60	5	130
C 0573	4138.4	6940.2	W13756.6	Y43913.1	349	32.3		172	69	103	76	70	5	25	70
0574	4138.3	6940.3	W13757.6	Y43912.6	335	31.7		275	97	178	150	85	0	15	29
0575	4143.3	6942.1	W13744.7	Y43944.8	319	53.6		56	8	48	40	70	0	30	52
C 0576	4143.5	6942.3	W13744.9	Y43946.2	330	54.7		57	3	54	45	75	0	25	70
C 0577	4151.3	6950.8	W13756.6	Y44004.0	351	30.6		29	3	26	26	70	0	30	107
0578	4151.3	6950.8	W13756.6	Y44004.0	353	30.1	42.8	18	4	14	14	75	5	20	44
0579	4156.4	6946.8	W13709.4	Y44027.9	295	56.3		0	0	0	0	5	80	15	194
C 0580	4156.5	6947.2	W13711.2	Y44029.0	296	56.9		1	0	1	1	12	80	8	276
C 0581	4159.0	6952.7	W13730.7	Y44051.5	164	35.0		3	0	3	3	45	40	15	332
0582	4159.0	6952.6	W13730.1	Y44051.4	162	36.1		2	0	2	2	50	40	10	276
0583	4156.0	6952.3	W13742.8	Y44033.6	172	29.5	41.0	48	1	47	47	10	85	5	414
C 0584	4155.9	6952.4	W13743.9	Y44033.2	177	29.5		23	0	23	23	25	60	15	263
C 0585	4146.5	6950.4	W13776.7	Y43975.2	149	35.0		9	0	9	9	90	0	10	92
0586	4146.6	6950.3	W13775.7	Y43975.6	163	35.5		14	2	12	12	80	7	13	46
0587	4141.8	6949.2	W13791.5	Y43945.5	141	18.6		141	88	53	39	10	30	60	1058
C 0588	4141.6	6949.0	W13791.3	Y43944.1	114	18.6		246	209	37	28	5	30	65	506
C 0589	4136.3	6942.9	W13781.1	Y43904.1	112	17.5	42.6	2923	2271	652	435	10	80	10	322
0590	4136.3	6942.7	W13780.0	Y43903.8	114	18.0		3191	2639	552	358	50	40	10	138
0591	4133.9	6938.7	W13768.6	Y43884.2	122	18.0		468	375	93	76	30	45	25	253
C 0592	4133.7	6938.6	W13769.0	Y43882.9	113	18.6		78	66	12	8	5	90	5	713
C 0593	4127.0	6936.5	W13787.1	Y43839.7	171	13.1		10	6	4	0	20	70	10	305
0594	4126.8	6936.4	W13787.5	Y43838.4	167	13.1		31	25	6	5	30	20	50	414
* 0595	4126.0	6929.1	W13751.4	Y43824.7	15	18.0		56	26	30	27	20	20	60	966
C 0596	4126.0	6929.2	W13751.9	Y43824.8	354	18.0		110	25	85	83	15	65	20	1024

Total

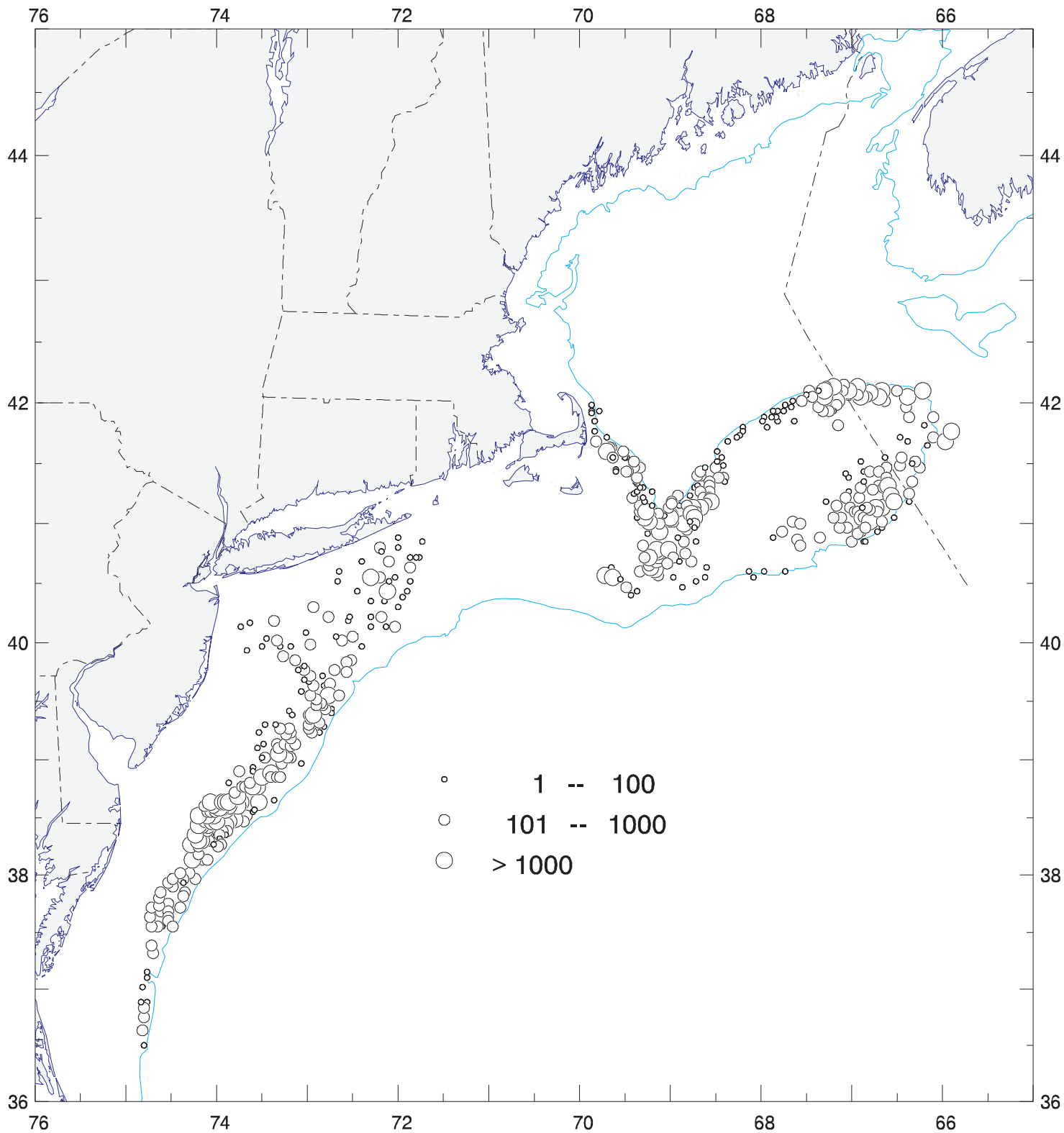
390478 239409 151069 107568

\* Indicates non-random stations.

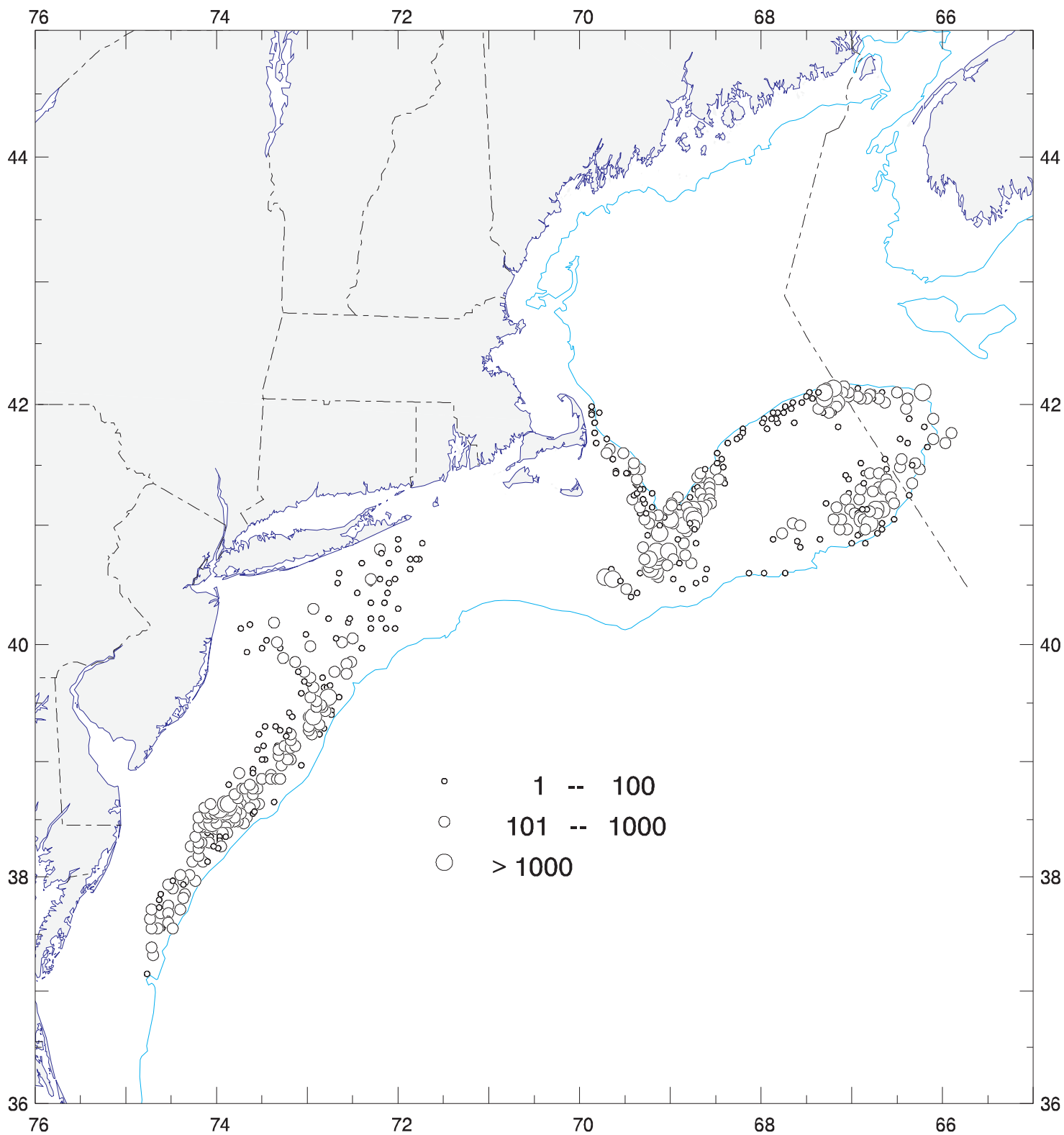
C Indicates equipment comparison or camera study tows for special non-survey experiment.

Stations with no scallop or trash data are stations where the dredge either flipped, hung-up, or the camera was tested.

NMFS-NEFSC SEA SCALLOP SURVEY - 2004  
SEA SCALLOPS - Number/Tow  
Total Number



NMFS-NEFSC SEA SCALLOP SURVEY - 2004  
SEA SCALLOPS - Number/Tow  
Greater Than 90 mm





NMFS-NEFSC SEA SCALLOP SURVEY - 2004  
SEA SCALLOPS - Number/Tow  
Less Than 90 mm

