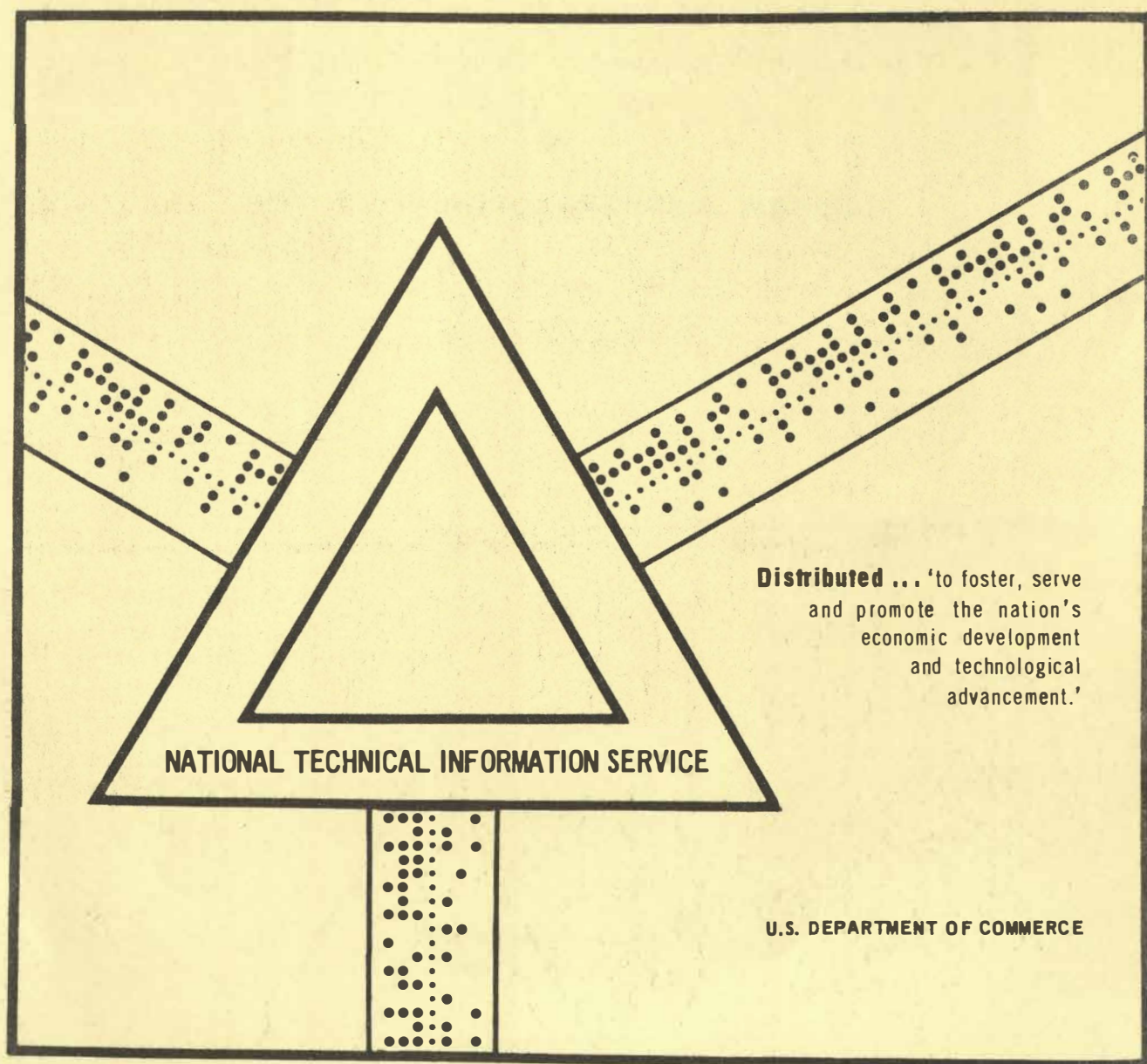


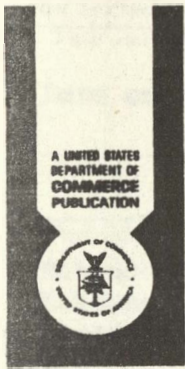
DATA ON SAMPLES FOR SURF CLAMS AND OCEAN QUA -
HOGS

John W. Ropes, et al

National Marine Fisheries Service
Oxford, Maryland

February 1971





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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL MARINE FISHERIES SERVICE

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DATA ON SAMPLES FOR SURF CLAMS AND OCEAN QUAHOGS

By

JOHN W. ROPES and ARTHUR S. MERRILL

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DATA ON SAMPLES FOR SURF CLAMS AND OCEAN QUAHOGS

By

JOHN W. ROPES and ARTHUR S. MERRILL

Fishery Biologists

National Marine Fisheries Service

Biological Laboratory

Oxford, Maryland 21654

ABSTRACT

Data on the catch of surf clams and ocean quahogs by several research vessels operating in the continental shelf of the Gulf of Maine to Cape Hatteras, N. C., are given.

INTRODUCTION

Records of bottom sampling during cruises of the Bureau of Commercial Fisheries (now National Marine Fisheries Service) research vessels Albatross III and IV, Delaware I, and Undaunted, and the Woods Hole Oceanographic Institution research vessel Gosnold have been assembled in the following tables to show the occurrence of two bivalve mollusks--the surf clam, Spisula solidissima (Dillwyn), and the ocean quahog, Arctica islandica (Linnaeus). The samples were taken from the continental shelf in the Gulf of Maine and southward to Cape Hatteras, N. C.

The data provided a basis for describing the distribution and density of the two bivalves. Those gathered at 591 stations during two

cruises of the R/V Undaunted in 1965 (May 13 to June 25 and October 23 to November 11) are given here in total. Data from cruises by other vessels are selected for the occurrence of the two bivalves--53 stations included surf clams and 174 included ocean quahogs. The extensive record of sampling during cruises of the R/V Gosnold are available elsewhere (Nathaway^{1/}); our records from these cruises are only for the above two bivalve species and include additional, original observations on the bivalves.

^{1/} Hathaway, John C. 1966. Data file continental margin program Atlantic coast of the United States. Woods Hole Oceanogr. Inst. Ref. No. 66-8, 184 p.

An analysis of the data has been reported in Merrill and Ropes (1969), Ropes, Chamberlin, and Merrill (1969), and Merrill, Chamberlin, and Ropes (1969). Ropes and Merrill ^{2/} and Merrill and Ropes ^{3/} give additional analyses of the data.

ACKNOWLEDGMENTS

We thank Dr. Roland L. Wigely of the National Marine Fisheries Service Biological Laboratory, Woods Hole, Mass., for records of surf clams and ocean quahogs in samples taken during cruises of the research vessels Albatross III and IV, and Delaware I; and Dr. Kenneth O. Emery of the Woods Hole Oceanographic Institution, Woods Hole,

^{2/} Merrill, Arthur S., and John W. Ropes. The distribution and density of ocean quahogs, Arctica islandica. [In preparation.]

^{3/} Ropes, John W., and Arthur S. Merrill. The distribution and density of surf clams, Spisula solidissima. [In preparation.]

Mass., for permission to use records of samples containing the two clams taken during cruises of the research vessel Gosnold. Jo Ann Bridges typed the tables and is herein gratefully acknowledged.

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Table 1.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Long Island area

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<i>Spisula solidissima</i>		
								Clams	Bushels	Average size & (range)
								No.	No.	mm.
83	40 ⁰	060	73 ⁰	24'	5-30	42.7	10.0	0	-	-
84	40	08	73	29	5-30	42.7	8.0	0	-	-
85	40	12	73	33	5-300	38.10	4.0	0	-	-
86	40	16	73	38	5-300	28.3	3.0	0	-	-
87	40	19	73	42	5-300	28.30	4.0	0	-	-
88	40	23	73	48	5-300	44.80	2.0	0	-	-
89	40	34	73	45	5-300	12.20	15.0	272	5.0	114(95-134)
90	40	34	73	42	5-300	11.9	15.0	0	-	-
91	40	34	73	38	5-300	11.30	4.0	5	.1	135(70-174)
92	40	33	73	36	5-300	12.20	2.0	0	-	-
93	40	31	73	420	5-30	22.60	0.1	0	-	-
94	40	27	73	36	5-300	23.20	4.0	15	.3	157(140-174)
95	40	24	73	31	5-300	27.40	5.0	1	< .1	167 -
96	40	20	73	28	5-300	29.90	5.0	21	.4	146(105-174)
97	40	17	73	23	5-300	38.10	2.0	0	-	-
98	40	13	73	18	5-300	39.60	2.0	0	-	-
99	40	20	73	10	5-300	39.00	1.0	0	-	-
100	40	24	73	15	5-300	37.50	1.0	0	-	-
101	40	28	73	21	6-30	24.40	15.0	2	< .1	170(160-179)
102	40	31	73	25	6-30	22.3	15.0	0	-	-
103	40	34	73	29	6-30	13.1	7.0	0	-	-
104	40	35	73	15	6-40	20.70	0.5	2	< .1	147(140-154)
105	40	31	73	08	6-40	26.5	1.0	8	.2	145(110-164)
106	40	29	73	05	6-4	28.70	6.0	0	-	-
107	40	26	73	01	6-40	38.10	0.5	0	-	-
108	40	32	72	52	6-40	38.10	14.0	0	-	-
109	40	35	72	58	6-40	24.40	4.0	91	1.70	155(85-189)
110	40	39	73	02	6-40	18.30	2.0	13	.2	131(75-179)
111	40	43	72	50	6-40	21.90	0.5	6	.10	159(150-169)
112	40	40	72	46	6-40	29.30	6.0	0	-	-
113	40	37	72	43	6-40	35.10	8.0	0	-	-
114	40	39	72	30	6-40	34.10	5.0	0	-	-
115	40	43	72	35	6-40	31.40	7.0	0	-	-
116	40	47	72	39	6-40	24.70	3.0	19	.4	149(95-174)
117	40	50	72	27	6-40	19.50	0.8	6	.1	144(120-174)
118	40	46	72	23	6-40	33.20	10.0	0	-	-
119	40	42	72	18	6-40	41.50	12.0	0	-	-
120	40	50	72	12	6-40	33.80	4.0	0	-	-
121	40	54	72	15	6-40	16.80	1.9	102	1.9	157(80-189)
122	40	57	72	03	6-40	17.70	3.0	102	1.9	147(85-174)
123	40	54	72	00	6-40	27.40	1.5	2	< .1	85(80- 89)
124	41	01	71	54	6-40	19.2	0.0	0	-	-
125	40	58	71	50	6-40	30.50	2.0	0	-	-
126	40	54	71	45	6-40	49.70	8.0	0	-	-
127	40	52	71	44	6-5	57.90	0.0	0	-	-
128	40	44	71	50	6-50	53.30	2.0	0	-	-
129	40	46	71	52	6-40	41.10	3.0	0	-	-
130	40	42	72	03	6-50	49.70	1.0	0	-	-
131	40	34	71	53	6-50	57.60	8.0	0	-	-
132	40	32	72	06	6-5	57.30	11.0	0	-	-

Table 1.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V Undaunted cruise in the Long Island area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
83	284	2.0	78(55- 99)	Shell	-
84	346	2.4	83(65-109)	Shell	-
85	105	.7	89(70-109)	Shell	-
86	142	1.0	90(75-104)	Shell	-
87	71	.5	102(80-119)	Shell	-
88	0	-	-	Mud	-
89	0	-	-	Shell-sand	-
90	0	-	-	Sand-mud	-
91	0	-	-	Shell-sand-gravel	-
92	0	-	-	Sand-gravel	-
93	3	< .1	95(90-104)	-	-
94	0	-	-	Stone-gravel	-
95	0	-	-	Shell	-
96	0	-	-	Shell	-
97	8	.1	91(75-104)1	Shell	-
98	14	.1	102(90-119)	Shell	-
99	6	< .1	101(90-114)1	Shell	-
100	38	.3	99(55-124)	Shell-stone	-
101	0	-	-	Shell-sand	-
102	0	-	-	Shell-mud	-
103	0	-	-	Shell	-
104	0	-	-	Shell	-
105	91	.6	95(75-119)	Shell	-
106	710	4.9	97(80-124)1	Shell	-
107	67	.5	NM ^a	-	-
108	45	.3	94(65-119)1	Shell-sand	-
109	0	-	-	Shell	-
110	0	-	-	Shell	-
111	0	-	-	Shell	-
112	568	3.9	86(65-104)	Shell	-
113	284	1.9	86(55-109)	Shell	-
114	11	.1	88(60-109)	Shell-sand	-
115	10	.1	83(60- 99)	Shell	-
116	15	.1	91(80-109)	Sand-mud	-
117	1	< .1	92 -	Sand	-
118	91	.6	82(40-114)	Shell-sand	-
119	60	.3	95(60-124)	Shell-sand	-
120	92	.6	91(60-109)	Shell-sand	-
1211	0	-	-	-	-
1221	0	-	-	Shell-stone	-
1231	9	.1	100(80-114)	Shell	-
1241	0	-	-	Stone	-
1251	213	1.5	88(75-104)	Shell	-
1261	35	.2	86(65-104)	Shell-stone	-
1271	0	-	-	-	-
1281	282	1.9	96(85-104)	Shell	-
1291	22	.2	98(85-109)	Shell	-
130	36	.3	88(60-104)	Shell	-
1311	22	.2	70(40- 99)	Shell-sand	-
1321	75	.5	87(55-109)	Shell-sand	-

Table 1.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V Undaunted cruise in the Long Island area - Continued

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		
								Clams No.	Bushels No.	Average size & (range) mm.
133	40 ⁰ 37'	72° 13'			6-5	50.3	4.0	0	-	-
134	40 34	72 24			6-54	46.0	5.0	0	-	-
135	40 30	72 18			6-5	56.4	5.0	0	-	-
136	40 21	72 22			6-54	57.6	4.0	0	-	-
137	40 28	72 32			6-54	45.7	5.0	0	-	-
138	40 25	72 43			6-54	47.9	2.0	0	-	-
139	40 15	72 32			6-54	57.9	11.0	0	-	-
140	40 11	72 43			6-54	57.6	12.0	0	-	-
141	40 16	72 49			6-54	48.8	10.0	0	-	-
142	40 13	73 00			6-64	46.0	4.0	0	-	-
143	40 08	72 52			6-64	49.7	6.0	0	-	-
144	40 03	73 03			6-64	48.2	4.0	0	-	-
145	40 09	73 11			6-64	43.9	3.0	0	-	-
146	40 04	73 20			6-64	43.0	4.04	1	.1	85
147	39 58	73 12			6-64	57.9	4.04	0	-	-

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
133	497	3.4	89(55-104)	Shell	-
134	150	1.0	77(40-109)	Shell	-
135	426	2.94	91(60-114)	Shell-sand-mud	-
136	300	2.1	88(45-114)	Sand-mud	-
137	213	1.5	82(35-114)	Shell-sand	-
138	142	1.0	84(50-114)	Shell	-
139	353	2.4	76(30-109)	Shell-sand	-
140	247	1.7	87(40-104)	Shell-sand	-
141	142	1.0	87(45-114)	Shell-sand	-
142	45	.3	90(60-109)	Shell-sand	-
143	94	.7	89(60-104)	Shell-sand	-
144	71	.5	83(55-104)	Shell-sand	-
145	71	.5	90(30-114)	Shell-sand	-
146	105	.7	93(55-109)	Shell-sand	-
147	213	1.5	81(55- 99)	Shell	-

^a NM = not measured.

Table 2.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the New Jersey area

Station number	Station location				Date in 1965	Depth	Total bushels in dredge	<i>Spisula solidissima</i>		Average size & (range)
	Lat.	N.	Long.	W.				Clams	Bushels	
						M.	No.	No.	No.	mm.
13	38°	55'	74°	50'	5-263	12.2	10.03	21	.4	105(90-134)
2	38	53	74	45	"	15.23	.8	0	-	-
3	38	50	74	40	"	14.63	.7	38	.7	126(80-184)
4	38	47	74	34	"	24.43	2.0	30	.6	115(60-179)
5	38	44	74	28	"	29.03	.5	4	.1	164(150-179)
6	38	41	74	23	"	32.03	4.0	9	.2	138(50-179)
7	38	39	74	17	5-27	44.8	.8	5	.1	121(110-134)
8	38	48	74	17	"	43.3	1.0	12	.3	132(80-164)
9	38	51	74	22	"	35.7	2.0	14	.3	108(60-164)
10	38	53	74	28	"	29.0	6.0	0	-	-
11	38	57	74	33	"	19.8	1.5	69	1.3	130(65-184)
12	38	59	74	38	"	9.1	1.5	3	.1	106(85-126)
13	39	02	74	44	"	12.2	2.0	0	-	-
14	39	10	74	38	"	10.7	12.3	704	12.8	113(90-164)
15	39	08	74	33	"	18.3	1.5	48	.9	149(85-174)
16	39	05	74	29	"	21.3	2.3	128	2.3	166(145-184)
17	39	01	74	23	"	29.0	.0	0	-	-
18	38	59	74	16	"	32.0	1.3	3	.1	152(150-164)
193	38	56	74	11	"	35.13	13.03	0	-	-
20	38	54	74	05	"	42.7	3.13	0	-	-
21	38	57	73	55	"	39.03	15.03	2	< .1	67(50- 84)
22	39	00	73	59	"	38.13	1.03	0	-	-
23	39	02	74	05	"	38.73	15.03	0	-	-
24	39	05	74	10	"	35.13	1.63	3	.1	159(145-169)
25	39	09	74	15	"	22.33	2.0	51	.9	162(105-184)
26	39	12	74	20	5-283	17.43	.3	4	.1	153(130-164)
27	39	14	74	26	"	16.83	9.03	0	-	-
28	39	16	74	29	"	15.23	8.03	320	5.8	134(115-164)
29	39	22	74	19	"	16.13	.3	2	< .1	NM ^a
30	39	20	74	15	"	21.33	.0	0	-	-
31	39	18	74	10	"	28.03	9.0	0	-	-
32	39	15	74	06	"	27.43	8.0	6	.1	124(60-164)
33	39	11	74	01	"	35.13	1.5	9	.2	157(140-169)
34	39	08	73	57	"	40.23	.0	0	-	-
35	39	06	73	52	"	36.03	1.0	13	< .1	137 -
36	39	03	73	47	"	40.53	10.0	1	< .1	57 -
37	39	09	73	40	"	36.63	3.0	5	.1	131(105-169)
38	39	12	73	44	"	42.33	15.03	0	-	-
39	39	15	73	49	"	33.8	1.03	6	.1	151(70-184)
40	39	18	73	55	"	32.3	10.0	3	.1	167(150-180)
41	39	21	74	00	"	27.7	10.0	11	.2	154(95-179)
42	39	23	74	06	"	22.9	0.3	0	-	-
43	39	28	74	09	"	18.3	1.0	7	.1	157(130-169)
44	39	30	74	15	"	14.9	18.0	103	1.9	116(70-154)
45	39	37	74	09	"	16.8	1.5	1	< .13	112 -
46	39	35	74	04	"	16.5	2.0	117	2.13	158(85-184)
47	39	32	74	00	"	22.9	8.0	0	-	-
48	39	29	73	54	"	27.4	9.0	15	.3	154(115-174)
49	39	26	73	50	"	29.9	9.0	2	< .1	160(140-179)
50	39	23	73	45	5-293	32.9	10.0	51	.9	147(50-189)

Table 2.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the New Jersey area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
1	0	-	-	Shell-gravel-sand-mud	-
2	0	-	-	Shell	-
3	0	-	-	-	-
4	0	-	-	Shell	-
5	44	.3	93(75-109)	Shell	-
6	3	< .1	107(95-119)	Sand	-
7	105	.7	NM ^a -	Shell-sand	-
8	71	.5	NM ^a -	Shell	-
9	0	-	-	Shell	-
10	0	-	-	Clay	-
11	0	-	-	Shell	-
12	0	-	-	Shell	-
13	0	-	-	Shell-mud	-
14	0	-	-	-	-
15	0	-	-	-	-
16	0	-	-	-	-
17	0	-	-	Stone	-
18	150	1.0	92(75-109)	-	-
19	1,650	11.3	80(70- 94)	-	-
20	450	3.1	88(75-104)	-	-
21	142	1.0	93(75-109)	Shell-sand	-
22	150	1.0	94(75-114)	-	-
23	23	.2	91(75-104)	Shell-sand-mud	-
24	225	1.5	93(75-104)	-	-
25	0	-	-	-	-
26	0	-	-	-	-
27	0	-	-	-	-
28	0	-	-	-	-
29	0	-	-	-	-
30	0	-	-	-	-
31	0	-	-	Shell-mud	-
32	0	-	-	Shell	-
33	22	.2	91(80-104)	Shell	-
34	0	-	-	-	-
35	2	< .1	97 -	Shell	-
36	100	.7	99(80-119)	Shell-sand	-
37	14	.1	102(90-119)	Shell	-
38	0	-	-	Shell-mud	-
39	10	.1	105(90-124)	-	-
40	17	.1	96(80-109)	Shell-sand	-
41	0	-	-	Sand-clay	-
42	0	-	-	Shell	-
43	0	-	-	Shell-sand	-
44	0	-	-	Shell-sand-mud	-
45	0	-	-	Shell-mud	-
46	0	-	-	Shell	-
47	0	-	-	Shell-sand	-
48	0	-	-	Sand	-
49	0	-	-	Shell-sand	-
50	36	.3	103(90-124)	Sand	-

Table 2.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V3
Undaunted cruise in the New Jersey area - Continued

Station number	Station location				Date in 1965	Depth	Total bushels in dredge	<u>Spisula solidissima</u>		Average size & (range)
	Lat.	N.	Long.	W.				Clams	Bushels	
						M.	No.3	No.	No.	mm.
51	39 ⁰	20'	73 ⁰	39'	5-293	43.3	12.0	0	-	-
52	39	27	73	34	"	36.6	3.0	11	.2	150(90-174)
53	39	31	73	39	"	31.4	6.0	8	.2	169(135-189)
54	39	33	73	44	"	28.3	1.0	9	.2	155(95-179)
55	39	37	73	49	"	31.4	15.0	12	.2	165(150-184)
56	39	39	73	54	"	25.9	8.0	102	1.9	154(90-174)
57	39	43	74	00	"	21.3	1.0	51	.9	144(65-169)
58	39	46	74	04	"	22.3	1.0	4	.1	102(95-109)
59	39	57	74	04	"	19.2	9.0	0	-	-
60	39	54	73	58	"	18.6	3.0	27	.5	152(95-169)
61	39	50	73	53	"	25.0	2.0	22	.5	144(120-159)
62	39	48	73	48	"	25.6	12.0	0	-	-
63	39	44	73	43	"	26.8	4.0	170	3.1	164(145-199)
64	39	41	73	39	"	36.9	12.0	23	< .1	157(150-164)
65	39	37	73	34	"	37.2	12.0	7	.1	148(90-174)
66	39	34	73	28	"	36.63	12.0	10	.2	163(120-179)
67	39	42	73	22	"	36.6	10.0	32	.6	134(65-179)
68	39	45	73	27	"	35.1	8.0	68	1.2	145(40-174)
69	39	48	73	32	"	36.6	10.0	3	.1	147(144-154)
70	39	51	73	37	"	36.0	11.0	83	.2	156(140-184)
71	39	54	73	41	"	35.1	8.0	68	1.2	145(85-169)
72	39	58	73	47	"	28.33	8.0	68	1.2	155(90-184)
73	40	01	73	52	"	24.4	5.0	34	.6	157(145-169)
74	40	04	73	56	5-303	21.33	2.0	44	.8	142(75-169)
75	40	06	73	59	"	17.7	2.0	33	.1	162(155-169)
76	40	16	73	55	"	20.1	15.0	0	-	-
77	40	14	73	52	"	23.8	2.0	51	.9	147(100-179)
78	40	11	73	47	"	32.0	2.0	0	-	-
79	40	06	73	42	"	36.6	8.0	0	-	-
80	40	03	73	39	"	36.3	4.0	13	< .1	102 -
81	40	00	73	34	"	36.0	4.0	9	.2	91(50-124)
82	39	57	73	28	"	43.6	8.0	0	-	-
148	39	55	73	23	6-63	42.7	5.0	0	-	-
149	39	50	73	19	"	43.6	9.0	0	-	-
150	39	47	73	13	"	45.1	4.0	0	-	-
151	39	43	73	08	"	46.6	4.0	0	-	-
152	39	31	73	06	"	50.0	5.0	0	-	-
153	39	35	73	12	"	42.7	10.0	0	-	-
154	39	38	73	17	"	39.33	5.0	13	.2	108(60-174)
155	39	31	73	23	"	36.6	8.0	20	.4	133(45-169)
156	39	28	73	18	"	35.1	5.0	19	.4	123(45-179)
157	39	25	73	12	"	56.13	13.0	0	-	-
158	39	18	73	18	"	52.7	10.0	0	-	-
159	39	21	73	22	"	48.5	9.0	5	.1	78(45-104)
160	39	24	73	28	"	40.5	6.0	19	.4	150(115-179)
161	39	17	73	34	"	49.7	10.0	0	-	-
162	39	13	73	27	"	42.1	6.0	30	.6	133(75-159)
163	39	10	73	22	"	53.3	11.03	0	-	-
164	39	02	73	27	"	54.93	8.03	0	-	-
165	39	06	73	34	6-73	45.73	1.03	33	.1	81(55- 94)

Table 2.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the New Jersey area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
51	750	5.1	91(65-114)1	Shell-sand	-
52	75	.5	103(80-124)1	Shell-sand	-
53	11	.1	NM ^a	Shell-sand	-
54	11	< .1	NM ^a	Shell	-
55	3	.1	100(95-109)1	Shell-sand	-
56	0	-	-	Shell-gravel	-
57	0	-	-	Shell	-
58	0	-	-	Shell	-
59	0	-	-	Clay	-
60	0	-	-	Sand	-
61	0	-	-	Sand	-
62	0	-	-	Mud	-
63	0	-	-	Shell	-
64	7	.1	104(90-119)	Shell-sand-mud	-
65	9	.1	110(95-129)1	Shell-sand-gravel	-
66	19	.1	107(90-129)1	Shell-sand	-
67	75	.5	108(75-134)1	Shell-sand-gravel	-
68	12	.1	105(85-119)1	Shell	-
69	11	.1	103(80-124)1	Shell-sand	-
70	13	.1	105(85-124)	Shell-sand	-
71	21	.1	109(95-124)1	Shell-sand-gravel	-
72	11	< .1	108 -	Shell	-
73	0	-	-	Shell-sand-gravel	-
74	0	-	-	Shell-sand	-
75	0	-	-	Shell-sand	-
76	0	-	-	Clay	-
77	10	.1	98(85-114)	Shell	-
78	35	.2	92(70-109)1	Mud	-
79	140	1.0	92(70-119)1	Shell	-
80	25	.2	94(75-119)1	-	-
81	100	.7	104(90-119)1	Shell	-
82	12	.1	100(90-114)1	Shell-sand	-
148	7	.1	98(85-109)1	Shell-sand	-
149	10	.1	73(55- 94)1	Shell-sand-mud	-
150	11	.1	80(45-114)1	Shell-gravel	-
151	10	.1	99(70-119)1	Shell-sand-gravel	-
152	213	1.5	98(75-119)1	Shell	-
153	35	.2	106(90-119)1	Shell	-
154	21	.1	103(85-119)1	Shell	-
155	51	.1	116(105-129)	-	-
156	2	< .1	102(95-114)1	Sand	-
157	498	3.4	84(35-109)	Sand	-
158	33	.2	85(60-109)	Shell	-
159	40	.3	92(65-114)1	Shell	-
160	497	3.4	98(85-114)1	Shell	-
161	27	.2	81(30-109)1	Shell-sand	-
162	23	.3	101(90-114)	Shell	-
163	28	.2	86(45-114)	Shell-sand	-
164	213	1.5	89(70-109)	Shell-sand1	-
165	32	.2	94(70-114)1	Shell-sand	-

Table 2.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the New Jersey area - Continued

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth	Total bushels in dredge	<u>Spisula solidissima</u>		
								Clams	Bushels	Average size & (range)
								No.	No.	mm.
166	38° 59'	73° 41'			6-7	44.2	15.01	0	-	-
173	38	35	74	09	6-11	50.3	12.01	0	-	-
174	38	42	74	05	6-12	49.7	5.0	0	-	-
175	38	47	73	55	"	46.6	2.1	0	-	-
176	38	53	73	45	"	45.7	10.0	0	-	-
177	38	54	73	31	"	58.8	8.0	0	-	-
178	38	46	73	36	"	59.4	12.0	0	-	-
179	38	41	73	45	"	57.9	10.0	1	< .1	75 -
180	38	35	73	52	"	57.61	8.0	0	-	-
181	38	28	73	58	"	57.9	11.0	0	-	-

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
166	7	.1	93(85-109)1	Shell-sand	-
173	187	113	92(70-109)	Shell-sand	50
174	105	.7	89(75-109)	Shell	6
175	282	1.9	88(60-104)	Shell-sand-mud	10
176	31	.2	92(75-109)	Shell-sand	10
177	12	.1	85(60- 99)	Shell-sand	320
178	247	1.7	88(20-104)	Shell-sand	-
179	177	1.2	90(70-104)	Shell-sand	63
180	142	1.0	93(45-104)	Shell-sand	3
181	282	1.9	94(70-114)	Shell-sand	13

Table 3.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Delmarva Peninsula area

Station number	Station location Lat. N. Long W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
167	38° 46'	74° 51'			6-111	17.7	5.0	0	-	-
168	38 42	74 44			"	19.8	3.0	53	1.0	120(80-159)
169	38 39	74 39			"	28.3	6.01	60	1.1	141(60-174)
170	38 37	74 34			"	32.9	10.0	32	.6	153(130-174)
171	38 34	74 28			"	41.1	3.0	0	-	-
172	38 29	74 17			"	41.1	5.0	1	< .1	95 -
182	38 23	74 06			6-12	61.31	3.0	0	-	-
183	38 16	74 13			"	59.4	10.0	0	-	-
184	38 19	74 22			"	53.3	10.0	0	-	-
185	38 23	74 26			"	36.9	4.0	36	.7	140(60-179)
186	38 25	74 31			"	37.8	5.0	30	.6	136(80-174)
187	38 28	74 36			"	27.7	4.0	65	1.1	126(60-174)
188	38 30	74 41			"	19.2	3.0	85	1.6	134(65-174)
189	38 33	74 47			"	29.9	2.0	1	.1	157 -
190	38 36	74 52			"	24.4	5.0	2	< .1	97(90-104)
191	38 38	74 58			"	18.3	6.0	0	-	-
192	38 40	75 03			"	15.21	1.0	0	-	-
193	38 32	75 00			"	15.5	4.0	39	.7	96(70-109)
194	38 26	74 52			"	19.2	10.0	11	.2	102(70-129)
195	38 23	74 46			"	26.8	.7	40	.7	132(55-169)
196	38 20	74 42			"	29.3	10.0	96	1.8	142(70-164)
197	38 18	74 36			6-131	39.6	2.0	21	< .1	157(150-164)
198	38 15	74 31			"	43.6	110.01	1	< .1	87 -
199	38 13	74 25			"	36.9	2.0	0	-	-
200	38 10	74 19			"	47.5	10.0	0	-	-
201	38 06	74 13			"	52.7	6.0	0	-	-
202	38 00	74 19			"	57.9	12.0	0	-	-
203	38 05	74 30			"	42.7	10.0	11	< .1	67 -
204	38 07	74 35			"	36.6	5.0	22	.4	98(55-164)
205	38 10	74 40			"	38.1	5.0	12	.2	132(85-154)
206	38 14	74 49			"	19.8	2.0	18	.3	114(75-164)
207	38 15	74 52			"	22.3	3.0	44	.8	122(65-174)
208	38 18	74 58			"	18.3	11.0	10	.2	94(65-119)
209	38 11	75 05			"	13.4	2.0	6	.1	91(80- 99)
210	38 07	74 57			"	22.3	3.0	15	.3	116(85-174)
211	38 05	74 52			"	28.3	14.0	96	1.8	153(70-179)
212	38 03	74 46			"	29.9	10.0	16	.3	150(70-174)
213	38 00	74 41			"	29.9	6.0	8	.2	157(135-174)
214	37 57	74 35			"	43.6	2.0	0	-	-
215	37 54	74 27			"	57.31	6.0	0	-	-
216	37 49	74 36			"	55.8	8.0	0	-	-
217	37 52	74 45			"	43.0	13.0	0	-	-
218	37 54	74 50			"	35.1	1.5	12	.2	127(95-169)
219	37 56	74 56			"	22.9	4.0	7	.1	126(80-174)
220	38 00	74 59			"	25.9	6.0	12	.2	148(90-179)
221	38 02	75 05			6-141	13.11	2.0	112	2.0	126(100-149)
222	37 55	75 10			6-131	19.21	1.0	0	-	-
223	37 52	75 07			6-141	18.31	.0	3	.1	150(130-164)
224	37 50	75 00			"	31.71	2.0	32	.6	155(85-179)
225	37 47	74 57			"	33.51	6.01	54	1.0	137(75-169)

Table 3.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Delmarva Peninsula area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
167	0	-	-	Gravel	81
168	0	-	-	Shell	82
169	0	-	-	Shell-gravel-sand-mud	84
170	0	-	-	Shell-sand	187
171	294	2.0	94(70-114)	Shell	46
172	63	.4	98(75-124)	Shell	20
182	22	.2	93(70-109)	Shell	1
183	71	.5	96(80-109)	Shell	88
184	247	1.7	93(75-109)	Shell-sand	119
185	2	< .1	85(80- 89)	Shell	1
186	2	< .1	95(90- 99)	Shell-gravel	134
187	0	-	-	Shell	9
188	0	-	-	Shell	23
189	0	-	-	Stone	21
190	0	-	-	Stone-mud	8
191	0	-	-	Shell-stone	16
192	0	-	-	Shell	22
193	0	-	-	Shell-gravel-peat	52
194	0	-	-	Shell-clay	60
195	0	-	-	Shell	169
196	0	-	-	Shell	135
197	33	.2	92(65-109)	Shell	56
198	72	.5	90(75-104)	Shell-clay	24
199	17	.1	91(80-104)	Shell	-
200	213	1.5	88(75- 99)	Shell-sand	142
201	35	.2	98(85-114)	Shell-sand	105
202	852	5.8	76(65- 99)	Shell	56
203	3	< .1	82(65-114)	Shell-sand	33
204	7	.1	96(80-114)	Shell	166
205	2	< .1	100(85-114)	Shell-sand	33
206	0	-	-	Shell	1
207	0	-	-	Shell	139
208	0	-	-	Shell-sand	78
209	0	-	-	Shell	87
210	0	-	-	Shell	82
211	0	-	-	Shell-sand	147
212	0	-	-	Shell-sand	83
213	3	< .1	97(90-104)	Shell	148
214	34	.2	87(80- 99)	Shell	106
215	41	.3	92(70-114)	Shell	88
216	28	.2	87(65-104)	Shell	72
217	314	2.2	81(65- 99)	Shell	142
218	0	-	-	Shell	118
219	0	-	-	Shell	112
220	0	-	-	Shell-sand	153
221	0	-	-	Shell	157
222	0	-	-	Shell	137
223	0	-	-	-	139
224	0	-	-	Shell	135
225	0	-	-	Shell	121

Table 3.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V7
Undaunted cruise in the Delmarva Peninsula area - Continued

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
226	37 ⁹	44 ¹	74 ⁰	50 ¹	6-147	39.07	5.07	13	.2	139(45-169)
227	37	43	74	45	"	47.27	14.0	0	-	-
228	37	40	74	39	"	55.8	7.0	0	-	-
229	37	31	74	42	"	57.37	8.0	0	-	-
230	37	36	74	52	"	38.1	6.0	7	.1	131(65-164)
231	37	38	74	59	"	33.5	10.0	51	1.0	141(85-169)
232	37	41	75	04	"	30.5	1.0	32	.6	139(95-174)
233	37	43	75	09	"	30.2	5.0	17	< .1	77 -
234	37	46	75	15	"	23.8	6.0	10	.2	93(70-114)
235	37	48	75	20	"	17.1	.3	0	-	-
236	37	49	75	25	"	12.2	.0	0	-	-
237	37	42	75	31	"	14.9	6.0	3	.1	85(80- 89)
238	37	40	75	27	"	17.7	.5	0	-	-
239	37	39	75	21	"	18.9	8.0	27	< .1	75(65- 84)
240	37	36	75	15	"	27.4	8.0	33	.6	136(75-174)
241	37	34	75	10	"	31.47	1.0	27	< .1	132(110-154)
242	37	32	75	05	"	30.5	7.0	20	.4	144(95-174)
243	37	29	74	58	"	32.3	11.0	0	-	-
244	37	27	74	53	"	45.1	4.0	17	< .1	72 -
245	37	23	74	43	"	57.37	1.0	0	-	-
246	37	14	74	48	6-157	58.87	5.0	0	-	-
247	37	18	74	52	"	50.3	3.0	0	-	-
248	37	20	74	59	"	41.17	6.0	15	.3	100(65-164)
259	36	29	74	50	6-197	71.67	.1	0	-	-
260	36	38	74	50	"	58.8	6.0	0	-	-
261	36	48	74	49	"	60.0	5.0	17	< .1	87 -
262	36	58	74	52	"	57.9	8.0	17	< .1	45 -
263	37	07	74	51	"	58.8	6.0	0	-	-
264	37	09	74	55	"	50.37	9.0	0	-	-
265	37	13	75	04	"	31.47	6.0	12	.2	135(75-174)
266	37	15	75	09	"	34.77	9.0	21	.4	141(95-164)
267	37	23	75	07	"	27.47	5.0	9	.2	133(85-169)
268	37	26	75	11	"	29.97	2.0	48	.9	138(65-169)
269	37	28	75	18	"	29.07	1.0	4	.1	118(80-159)
270	37	29	75	23	6-20	23.87	.3	0	-	-
271	37	24	75	37	"	18.37	1.0	3	.1	90(85- 99)
272	37	23	75	32	"	23.57	8.0	0	-	-
273	37	21	75	26	"	25.9	3.0	8	.2	96(65-154)
274	37	19	75	20	"	29.97	2.0	33	.6	139(70-179)
275	37	17	75	15	"	22.9	.5	12	.2	135(110-164)
276	37	16	75	41	"	13.1	7.0	3	.1	67(60- 79)
277	37	15	75	35	"	21.37	8.0	2	< .1	72(60- 84)
278	37	13	75	31	"	23.8	10.0	0	-	-
279	37	11	75	25	"	28.37	1.0	2	< .1	105(100-109)
280	37	09	75	18	"	28.77	1.0	0	-	-
281	37	07	75	12	"	38.17	1.0	17	< .1	162 -
282	37	05	75	07	"	36.67	5.0	9	.2	NM ^a
283	37	03	75	02	"	45.17	8.0	0	-	-
284	37	00	74	56	"	49.77	4.0	1	< .1	127 -
285	36	49	74	53	"	47.5	10.0	0	-	-

Table 3.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Delmarva Peninsula area - Continued

Station number	<u>Arctica islandica</u>		Average size & (range)	General bottom materials	Odometer reading
	Clams	Bushels			
	No.	No.	mm.		
226	38	.3	85(65-109)	Shell	357
227	282	1.9	74(60- 84)	Shell	102
228	31 <	.1	105(90-124)	Shell	112
229	30	.2	103(90-119)	Shell-sand	147
230	31 <	.1	99(90-109)	Shell-sand	30
231	0	-	-	Shell-sand	144
232	4 <	.1	93(85-104)	Shell	178
233	0	-	-	Shell-clay	36
234	0	-	-	Sand-clay	-
235	0	-	-	Shell-clay	95
236	0	-	-	-	126
237	0	-	-	Shell-clay	97
238	0	-	-	Shell	94
239	0	-	-	Sand-shell	87
240	0	-	-	Sand-shell	157
241	11 <	.1	97 -	Shelll	152
242	0	-	-	Shell-sandl	59
243	0	-	-	Shell-sandl	135
244	16	.1	88(75-109)	Shell-sandl	30
245	44	.3	97(70-114)	Shelll	59
246	30	.2	98(80-109)	Shell	32
247	17	.1	99(80-124)	Shelll	102
248	61 <	.1	90(85- 99)	Shelll	164
259	11 <	.1	86 -	Shell	9
260	61 <	.1	87(75- 94)	Shell-gravel	6
261	8	.1	88(60-109)	Shell-sand	107
262	01	-	-	Shell-sandl	55
263	7	.1	81(60-109)	Shell-sand	79
264	11	.1	95(80-114)	Shell-sand	44
265	0	-	-	Shell-sand	167
266	0	-	-	Shell-sand	117
267	0	-	-	Shell	103
268	21 <	.1	NM ^a	Shell	160
269	0	-	-	Shell	101
270	0	-	-	Shell	144
271	0	-	-	Shell	16
272	0	-	-	Shell-clay	4
273	0	-	-	Shell	34
274	41 <	.1	77(65- 94)	Shell	162
275	0	-	-	Shell	15
276	0	-	-	Shell	136
277	0	-	-	Shell-sand	50
278	0	-	-	Shell	93
279	0	-	-	Shell	147
280	9	.1	87(80- 94)	Shell	137
281	61 <	.1	99(90-109)	Shell	44
282	26	.2	NM ^a	Shell	108
283	213	1.5	88(60-109)	Shell	55
284	51 <	.1	97(80-104)	Shell-clay-stone	23
285	0	-	-	Shell-gravel	44

Table 3.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Delmarva Peninsula - Continued2

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
286	36° 52'	75° 00'			6-202	36.6	5.0	3	.1	167(160-174)
287	36 54	75 06			"	36.6	4.0	49	.9	140(85-164)
288	36 57	75 11			"	37.5	8.0	8	.2	125(85-149)
289	36 59	75 18			"	34.4	12.0	30	.6	146(125-164)
290	37 01	75 23			"	30.5	6.0	11	.2	156(105-174)
291	37 03	75 28			"	28.3	5 0	12 <	.1	72 -
292	37 05	75 35			"	25.3	1.5	22 <	.1	75(70- 79)
293	37 07	75 41			"	16.8	0.5	0	-	-
294	36 57	75 38			"	21.3	.0	0	-	-
295	36 55	75 34			"	22.3	.5	9	.2	94(80-114)
296	36 53	75 27			6-21	31.1	1.0	0	-	-
297	36 51	75 21			"	26.8	1.0	9	.2	101(80-149)
298	36 49	75 15			"	28.3	2.0	27	.5	127(75-164)
299	36 47	75 09			"	38.12	2.0	17	.3	142(80-169)2
300	36 45	75 04			"	29.9	5.0	7	.1	131(80-169)
301	36 43	74 29			"	36.0	5.0	6	.1	147(80-169)
302	36 41	74 54			"	42.7	1.0	0	-	-

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
286	0	-	-	Shell-gravel	51
287	0	-	-	Shell	67
288	0	-	-	Shell-gravel-rock	70
289	0	-	-	Shell-gravel	130
290	0	-	-	Shell-sand-mud	102
291	0	-	-	Shell-sand	-
292	0	-	-	Shell	-
293	0	-	-	Shell	131
294	0	-	-	-	121
295	0	-	-	Shell	166
296	0	-	-	Shell-mud	77
297	0	-	-	Shell	5
298	0	-	-	Shell	21
299	0	-	-	Shell	108
300	0	-	-	Shell	121
301	0	-	-	Shell	49
302	0	-	-	Shell	31

Table 4.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Virginia-North Carolina area

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
249	36 ⁰	49'	75 ⁰	46'	6-19	17.7	.0	0	-	-
250	36	48	75	40	"	20.7	.0	0	-	-
251	36	46	75	35	"	24.7	12.0	0	-	-
252	36	45	75	28	"	25.3	1.5	0	-	-
253	36	42	75	23	"	22.3	2.0	5	.1	90(80- 94)
254	36	40	75	17	"	32.0	.5	1	< .1	97 -
255	36	38	75	10	"	29.9	9.0	11	.2	145(100-164)
256	36	36	75	05	"	25.3	7.0	0	-	-
257	36	34	74	59	"	29.9	4.0	34	.6	149(100-174)
258	36	30	74	52	"	58.8	4.0	71	.8	122(95-144)
303	36	27	75	08	6-21	42.1	1.5	1	< .1	162 -
304	36	29	75	14	"	39.9	.0	0	-	-
305	36	32	75	19	"	29.9	1.0	2	< .1	92(70-114)
306	36	34	75	25	"	25.3	1.0	4	.1	90(65-114)
307	36	36	75	30	"	21.3	2.0	0	-	-
308	36	38	75	37	"	22.9	3.0	0	-	-
309	36	40	75	43	"	16.8	.5	0	-	-
310	36	41	75	49	"	20.7	.5	0	-	-
311	36	42	75	53	"	13.1	2.0	6	.1	72(55- 80)
312	36	32	75	50	"	14.6	.0	0	-	-
313	36	30	75	44	"	20.7	1.0	0	-	-
314	36	29	75	39	"	26.8	1.0	0	-	-
315	36	27	75	33	"	28.7	.5	0	-	-
316	36	26	75	28	"	23.8	2.0	0	-	-
317	36	24	75	21	"	34.4	.1	0	-	-
318	36	21	75	15	"	31.4	5.0	0	-	-
319	36	19	75	10	"	30.5	4.0	0	-	-
320	36	09	75	08	"	36.6	.5	0	-	-
321	36	12	75	13	"	33.5	10.0	0	-	-
322	36	14	75	18	"	28.3	.3	0	-	-
323	36	16	75	25	"	32.9	1.0	0	-	-
324	36	17	75	30	"	31.4	4.0	0	-	-
325	36	19	75	39	6-22	26.8	3.0	0	-	-
326	36	20	75	43	"	23.8	1.0	0	-	-
327	36	21	75	47	"	20.7	2.0	0	-	-
328	36	11	75	43	"	19.8	.1	1	< .1	72 -
329	36	10	75	39	"	23.5	.0	0	-	-
330	36	09	75	32	"	25.6	.0	0	-	-
331	36	07	75	27	"	28.3	1.0	0	-	-
332	36	06	75	21	"	37.4	1.0	0	-	-
333	36	03	75	15	"	29.0	4.0	0	-	-
334	36	01	75	09	"	36.6	13.0	0	-	-
335	35	57	75	02	"	42.1	8.0	0	-	-
336	35	48	75	04	"	45.7	1.5	0	-	-
337	35	50	75	09	"	36.0	1.5	0	-	-
338	35	54	75	15	"	29.9	.5	0	-	-
339	35	56	75	21	"	26.8	.0	2	< .1	92(85- 99)
340	35	58	75	27	"	23.8	.0	1	< .1	77 -
341	36	00	75	33	"	26.8	6.0	0	-	-
342	36	01	75	37	"	22.9	.2	13	.2	89(70-104)

Table 4.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V Undaunted cruise in the Virginia-North Carolina area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	<u>Clams</u>	<u>Bushels</u>	<u>Average size & (range)</u>		
	<u>No.</u>	<u>No.</u>	<u>mm.</u>		
249	0	-	-	Shell	237
250	0	-	-	Shell	-
251	0	-	-	Shell-mud	6
252	0	-	-	Shell	-
253	0	-	-	Shell	83
254	0	-	-	Shell	148
255	0	-	-	Shell-sand	125
256	0	-	-	Shell-sand	121
257	0	-	-	Shell	92
258	33	.2	100(60-129)	Shell-mud	147
303	0	-	-	Shell-mud	101
304	0	-	-	Shell	155
305	0	-	-	Shell	86
306	0	-	-	Shell	209
307	0	-	-	Shell	197
308	0	-	-	Shell	174
309	0	-	-	Shell	178
310	0	-	-	Shell	145
311	0	-	-	Shell-sand	140
312	0	-	-	-	140
313	0	-	-	Shell	19
314	0	-	-	Shell	174
315	0	-	-	Shell	50
316	0	-	-	Shell	100
317	0	-	-	Shell	117
318	0	-	-	Shell-sand	119
319	0	-	-	Shell	105
320	0	-	-	Shell	127
321	0	-	-	Shell-sand	94
322	0	-	-	Shell	94
323	0	-	-	Shell	89
324	0	-	-	Shell-mud	120
325	0	-	-	Shell	76
326	0	-	-	Shell	163
327	0	-	-	Shell-clay	21
328	0	-	-	Shell	195
329	0	-	-	-	133
330	0	-	-	Shell	81
331	0	-	-	Shell	159
332	0	-	-	Shell	137
333	0	-	-	Shell	133
334	0	-	-	Shell-sand	84
335	0	-	-	Shell-sand	98
336	0	-	-	Shell	127
337	0	-	-	Shell	155
338	0	-	-	Shell	160
339	0	-	-	Shell	6
340	0	-	-	Shell	62
341	0	-	-	Shell-clay	23
342	0	-	-	Shell	6

Table 4.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Virginia-North Carolina area - Continued

Station number	Station location ¹⁾ Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
343	35° 50'	75° 31'			6-22	20.7	.0	0	-	-
344	35	50	75	30	"	23.8	.5	8	.1	93(80- 99)
345	35	47	75	21	"	22.3	.0	0	-	-
346	35	45	75	15	"	35.1	.0	0	-	-
347	35	42	75	09	"	34.4	5.0	0	-	-
348	35	39	75	05	"	42.1	.0	0	-	-
349	35	25	75	02	"	39.6	.0	0	-	-
350	35	29	75	09	"	34.4	.1	0	-	-
351	35	32	75	11	"	30.5	.0	0	-	-
352	35	36	75	17	6-23	25.3	.0	0	-	-
353	35	39	75	22	"	28.3	.0	0	-	-
354	35	40	75	26	"	20.7	10.0	0	-	-
355	35	30	75	25	"	20.7	.0	0	-	-
356	35	28	75	21	"	23.5	.0	0	-	-
357	35	25	75	16	"	29.3	.0	0	-	-
358	35	22	75	11	"	31.4	.0	0	-	-
359	35	18	75	08	"	29.0	.0	0	-	-
360	35	22	75	27	"	13.1	.1	0	-	-
361	35	20	75	24	"	22.9	.0	0	-	-
362	35	14	75	22	"	29.9	.0	0	-	-
363	35	08	75	15	"	61.6	.0	0	-	-
364	35	08	75	14	"	57.3	.0	0	-	-
365	35	15	75	06	"	54.9	.0	0	-	-
366	35	22	74	58	"	53.3	.0	0	-	-
367	35	30	74	53	"	55.8	.0	0	-	-
368	35	45	74	58	"	58.2	.0	0	-	-
369	35	55	74	59	"	58.8	.0	0	-	-
370	36	04	74	58	"	59.4	.5	0	-	-
371	36	13	74	55	"	57.9	1.5	1	< .1	122 -
372	36	12	74	55	"	65.5	.3	0	-	-
373	36	21	74	54	"	56.4	1.0	0	-	-
374	36	24	74	59	"	42.1	5.0	2	< .1	167(160-174)

Table 4.--Sample data for surf clams and ocean quahogs during the spring 1965 R/V
Undaunted cruise in the Virginia-North Carolina area - Continued

Station number	<u>Arctica islandica</u>		Average size & (range)	General bottom materials	Odometer reading
	Clams	bushels			
	No.	No.	mm.		
343	0	-	-	Shell	24
344	0	-	-	Shell	55
345	0	-	-	Shell	182
346	0	-	-	Shell	139
347	0	-	-	Shell-sand	186
348	0	-	-	-	101
349	0	-	-	-	130
350	0	-	-	-	89
351	0	-	-	-	56
352	0	-	-	-	129
353	0	-	-	-	133
354	0	-	-	Shell-clay	39
355	0	-	-	-	-
356	0	-	-	Shell	17
357	0	-	-	-	57
358	0	-	-	Shell	-
359	0	-	-	-	97
360	0	-	-	-	141
361	0	-	-	-	178
362	0	-	-	-	113
363	0	-	-	-	66
364	0	-	-	-	55
365	0	-	-	-	39
366	0	-	-	-	71
367	0	-	-	-	47
368	0	-	-	Shell	-
369	0	-	-	Shell	-
370	0	-	-	Shell	70
371	3	< .1	77(60- 84)	Shell	75
372	0	-	-	Shell	48
373	2	< .1	85 -	Shell	64
374	9	.1	89(70-109)	Shell	109

Table 5.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the Long Island area

Station number	Station location				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
	Lat. N.	Long. W.						Clams No.	Bushels No.	
93	40 ⁰	32'	73 ⁰	34'	11-5	19.8	1.0	1	< .1	122 -
94	40	36	73	23	"	14.6	3.0	0	-	-
95	40	37	73	12	"	16.1	1.0	0	-	-
96	40	39	73	05	"	14.6	5.0	6	.1	141(110-154)
97	40	40	72	59	"	17.4	1.0	35	.6	137(80-169)
98	40	43	72	54	"	17.7	1.0	20	.4	143(95-164)
99	40	45	72	48	"	17.7	6.0	0	-	-
100	40	46	72	41	"	14.9	1.0	7	.1	154(140-169)
101	40	48	72	36	"	15.2	10.0	14	.3	151(135-164)
102	40	48	72	31	"	14.9	2.0	97	1.8	136(80-179)
103	40	51	72	24	"	15.2	1.0	55	1.0	139(75-174)
104	40	53	72	19	"	16.1	.5	4	.1	137(115-159)
105	40	55	72	13	"	16.8	.8	33	.6	142(85-174)
106	40	57	72	08	11-6	16.5	1.0	12	.2	136(105-164)
107	40	59	72	03	"	14.3	.2	1	< .1	162 -
108	41	01	71	57	"	17.1	1.0	6	.1	147(130-164)
109	40	57	71	52	"	33.2	3.0	0	-	-
110	40	55	71	59	"	31.1	2.0	0	-	-
111	40	54	72	05	"	35.1	.8	0	-	-
112	40	52	72	09	"	34.1	3.5	0	-	-
113	40	49	72	16	"	33.5	1.0	0	-	-
114	40	48	72	20	"	33.8	1.0	0	-	-
115	40	46	72	26	"	34.7	8.0	1	.1	52 -
116	40	44	72	32	"	31.4	5.0	0	-	-
117	40	42	72	36	"	30.2	1.5	0	-	-
118	40	41	72	44	"	32.3	9.0	0	-	-
119	40	38	72	49	"	32.6	5.0	0	-	-
120	40	37	72	54	"	30.5	5.0	0	-	-
121	40	36	73	02	"	25.3	1.0	13	.2	135(85-164)
122	40	34	73	07	"	27.1	1.0	11	.2	147(85-169)
123	40	33	73	15	"	23.2	.3	5	.1	154(85-169)
124	40	31	73	21	"	24.1	10.0	0	-	-
125	40	28	73	29	"	24.4	1.0	0	-	-
126	40	24	73	25	"	30.2	8.0	0	-	-
127	40	21	73	20	"	32.3	3.0	0	-	-
128	40	19	73	34	"	25.0	1.0	9	.2	151(120-174)
129	40	28	73	38	"	24.7	11.0	0	-	-

Table 5.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the Long Island area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	<u>No.</u>	<u>No.</u>	<u>mm.</u>		
93	0	-	-	Shell	-
94	0	-	-	Shell	-
95	0	-	-	Shell	-
96	0	-	-	Shell	-
97	0	-	-	Shell	-
98	0	-	-	Shell	-
99	0	-	-	Mud	-
100	0	-	-	-	-
101	0	-	-	Mud	-
102	0	-	-	Shell	-
103	0	-	-	Shell	-
104	0	-	-	Shell	-
105	0	-	-	-	-
106	0	-	-	Shell	-
107	0	-	-	Shell	-
108	0	-	-	Shell-stone	-
109	0	-	-	Stone	-
110	11	.1	99(80-119)	Shell	-
111	23	.2	91(75-109)	Shell	-
112	364	2.5	86(50-109)	Shell	-
113	5	< .1	103(85-124)	Shell	-
114	22	.2	91(75-104)	Shell	-
115	48	.3	81(35-104)	Shell	-
116	3	< .1	99(90-104)	Shell	-
117	14	.1	NM ^a	Shell	-
118	873	6.0	80(40-104)	Shell	-
119	728	5.0	83(60- 99)	-	-
120	34	.2	93(75-119)	Shell	-
121	0	-	-	Shell	-
122	31	.2	97(80-109)	Shell	-
123	0	-	-	Shell	-
124	0	-	-	Sand-shell	-
125	10	.1	100(90-114)	Shell	-
126	14	.1	93(60-114)	Mud	-
127	2	< .1	95(90- 99)	Shell	-
128	0	-	-	Shell	-
129	1	< .1	97 -	-	-

Table 6.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the New Jersey area

Station number	Station location				Date in 1965	Depth	Total bushels in dredge	<i>Spisula solidissima</i>		Average size & (range)
	Lat.	N.	Long.	W.				Clams	Bushels	
						M.	No.1	No.	No.	mm.
65	38°	43'	74°	34'	11-3	28.3	4.5	217	4.0	153(90-184)
66	38	46	74	41	"	27.1	6.0	2	< .1	155(150-159)
67	38	52	74	33	"	25.6	.0	0	-	-
68	39	02	74	31	"	12.8	1.5	83	1.5	126(85-154)
69	38	59	74	26	"	17.7	.3	13	.2	164(145-184)
70	38	56	74	21	"	33.5	.3	21	< .1	170(160-179)
71	39	06	74	19	"	22.3	2.0	47	.9	155(125-179)
72	39	08	74	23	11-41	22.9	1.0	21	< .1	Broken
73	39	11	74	28	"	19.8	1.0	0	-	-
74	39	13	74	33	"	14.3	4.0	11	< .1	142 -
75	39	17	74	20	"	16.5	.5	8	.2	118(100-169)
76	39	15	74	14	"	24.7	1.0	2	< .1	Broken
77	39	10	74	10	"	23.21	2.0	15	.3	160(115-179)
78	39	18	74	04	"	28.01	7.0	28	.5	154(95-179)
79	39	21	74	04	"	24.41	8.0	21	.4	148(135-164)
80	39	24	74	14	"	16.11	.3	9	.2	114(95-149)
81	39	34	74	11	"	15.81	3.0	16	.3	139(95-159)
82	39	30	74	06	"	19.2	3.0	109	2.0	154(85-174)
83	39	27	74	01	"	24.7	6.0	16	.3	154(135-169)
84	39	25	73	56	"	28.7	5.0	29	.5	159(100-179)
85	39	34	73	54	"	26.2	4.0	11	.2	159(110-174)
86	39	38	73	59	"	24.7	5.0	15	.3	156(140-169)
87	39	41	74	05	"	17.11	4.0	8	.2	146(105-174)
88	39	52	74	04	"	16.5	8.0	1	< .1	152 -
89	39	49	73	59	"	21.131	6.0	49	.9	136(115-154)
90	39	45	73	54	"	24.7	6.0	49	.9	138(120-154)
91	39	42	73	48	"	19.8	4.0	57	1.1	159(100-179)
92	39	39	73	49	"	25.9	4.0	13	.2	151(100-179)
130	40	11	73	57	11-61	17.1	6.0	41	.8	156(135-174)
131	40	08	73	53	11-71	26.5	1.0	0	-	-
132	40	04	73	47	"	29.3	4.0	28	.5	154(85-174)
133	40	01	73	43	"	35.4	5.0	5	.1	142(110-159)
134	39	58	73	38	"	32.0	8.0	4	.1	131(85-169)
135	39	54	73	32	"	36.9	4.0	1	< .1	135 -
136	39	42	73	33	"	42.11	5.0	8	.2	145(130-164)
137	39	46	73	37	"	36.0	3.0	5	.1	138(75-169)
138	39	49	73	42	"	28.0	3.0	14	.3	167(145-189)
139	39	54	73	47	"	28.7	5.0	136	2.5	152(90-174)
140	39	56	73	52	"	25.0	4.0	54	1.0	147(115-164)
141	39	59	73	58	"	20.1	1.0	10	.2	152(135-169)
142	40	02	74	02	"	18.3	3.0	0	-	-
143	39	57	74	03	"	18.3	6.0	0	-	-
144	39	55	73	59	"	19.2	5.0	20	.4	143(130-164)
145	39	52	73	54	"	25.3	7.0	109	2.0	139(120-154)
146	39	48	73	49	"	26.5	4.0	46	.9	160(90-179)
147	39	45	73	45	"	28.3	2.0	91	.2	164(125-179)
148	39	41	73	39	"	35.1	8.0	31	.6	152(125-174)
149	39	33	73	33	"	41.8	9.0	0	-	-
150	39	36	73	40	"	31.4	2.5	21	< .1	175(165-184)
154	38	46	74	23	11-101	38.4	4.5	0	-	-

Table 6.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the New Jersey area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
65	0	-	-	Shell	-
66	0	-	-	Shell-clay	-
67	0	-	-	-	-
68	0	-	-	Shell	-
69	0	-	-	Shell	-
70	0	-	-	Shell	-
71	2	< .1	100(95-104)	Shell	-
72	0	-	-	-	-
73	0	-	-	Shell	-
74	0	-	-	Shell-mud	-
75	0	-	-	Shell	-
76	0	-	-	Shell	-
77	0	-	-	Shell	-
78	0	-	-	Shell	-
79	0	-	-	Shell-sand	-
80	0	-	-	Shell	-
81	0	-	-	Shell-mud	-
82	0	-	-	Shell-sand-mud	-
83	0	-	-	Shell-sand-gravel	-
84	0	-	-	Shell	-
85	0	-	-	Shell	-
86	0	-	-	Shell	-
87	0	-	-	Shell-mud	-
88	0	-	-	Shell-mud	-
89	0	-	-	Shell-mud	-
90	0	-	-	Shell-gravel	-
91	0	-	-	Shell	-
92	0	-	-	Shell	-
130	0	-	-	Shell	-
131	2	< .1	90(80- 99)	Shell-mud	-
132	0	-	-	Shell	-
133	33	.2	97(75-114)	Shell	-
134	9	.1	111(85-124)	Shell	-
135	14	.1	94(80-109)	Shell-gravel	-
136	25	.2	91(60-114)	Shell-clay-stone	-
137	9	.1	106(95-119)	Shell	-
138	3	< .1	99(95-104)	Shell	-
139	0	-	-	Shell-mud	5
140	0	-	-	Shell	5
141	0	-	-	Shell	46
142	0	-	-	Shell	85
143	0	-	-	Mud	64
144	0	-	-	Clay	25
145	0	-	-	Shell	193
146	0	-	-	Shell	129
147	0	-	-	Shell	40
148	1	< .1	47 -	Shell-sand	42
149	728	5.0	84(55-114)	Shell-mud	28
150	4	< .1	112(105-119)	Shell	63
154	9	.1	100(85-109)	Shell-mud	96

Table 6.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the New Jersey area - Continued

Station number	Station location				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
	Lat. N.	Long. W.						Clams No.	Bushels No.	
155	38° 56'	74° 02'			11-10	38.1	3.0	1	< .1	112 -
156	39 05	73 59			"	38.1	2.0	3	.1	150(145-154)
157	39 09	73 47			"	39.9	.5	0	-	-
158	39 12	73 53			"	42.7	2.0	0	-	-
159	39 21	73 50			"	37.8	5.0	0	-	-
160	39 23	73 46			"	36.0	.0	0	-	-
161	39 24	73 37			"	40.5	3.0	0	-	-
162	39 27	73 43			"	33.2	5.0	2	< .1	87(80- 94)
163	39 31	73 40			"	32.3	4.0	8	.2	155(110-184)
164	39 33	73 45			"	25.9	2.5	16	.3	142(70-184)
165	39 37	73 50			11-11	27.7	1.0	2	< .1	167(165-169)
166	39 40	73 55			"	26.5	3.0	11	.2	158(135-179)
167	39 44	74 00			"	21.6	4.0	109	2.0	142(110-164)
168	39 42	74 04			"	12.5	1.0	21	.4	145(80-164)
169	39 38	74 10			"	16.8	.3	0	-	-
170	39 35	74 05			"	17.4	.3	8	.2	163(145-174)
171	39 32	73 59			"	22.3	2.5	1	< .1	172 -
172	39 28	73 54			"	28.3	4.0	6	.1	138(80-174)
173	39 31	73 49			"	31.1	9.0	15	.3	157(100-174)
174	39 26	73 50			"	32.6	9.0	14	.3	144(90-174)
175	39 15	73 58			"	30.8	3.0	23	.4	142(60-184)
176	39 08	74 05			"	32.9	.4	14	.3	150(125-169)
177	39 02	74 12			"	32.0	1.0	1	< .1	102 -
178	38 59	74 07			"	38.4	2.0	5	.1	144(125-179)
179	38 49	74 28			"	31.4	1.0	13	.2	-

Table 6.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the New Jersey area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
155	5	< .1	91(85- 99)	Shell	97
156	34	.2	88(75-104)	Shell	152
157	0	-	-	Shell	98
158	3	< .1	100(95-104)	Shell	2
159	5	< .1	92(65-109)	Shell-mud	42
160	0	-	-	-	45
161	6	< .1	98(80-109)	Shell	100
162	0	-	-	Shell-gravel-stone	5
163	0	-	-	Shell	3
164	1	< .1	92 -	Shell	2
165	8	.1	103(95-109)	Shell	1
166	0	-	-	Shell	3
167	0	-	-	Shell-mud	45
168	0	-	-	Shell	5
169	0	-	-	Shell-mud	5
170	0	-	-	Shell	5
171	0	-	-	Shell-sand	5
172	0	-	-	Shell	6
173	17	.1	98(85-109)	Shell	99
174	3	< .1	104(100-109)	Shell	138
175	0	-	-	Shell	171
176	1	< .1	92 -	Shell	13
177	8	.1	88(75- 99)	Shell	269
178	24	.2	92(80-119)	Shell	173
179	0	-	-	-	345

Table 7.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V1
Undaunted cruise in the Delmarva Peninsula area

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.1	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
13	37° 01'	75° 36'			10-281	22.3	01	0	-	-
14	37 03	75 42			"	16.8	1.01	0	-	-
15	37 04	75 48			"	10.7	5.0	0	-	-
16	37 12	75 43			"	11.6	1.01	0	-	-
17	37 11	75 37			"	16.8	12.01	1	< .1	62 -
18	37 08	75 32			"	24.1	7.51	0	-	-
19	37 06	75 26			"	27.1	1.01	21	< .1	167 + 1 Broken
20	37 05	75 20			"	32.0	1.01	0	-	-
21	37 10	75 09			"	29.31	4.01	28	.5	145(75-174)
22	37 13	75 09			"	24.4	01	0	-	-
23	37 15	75 20			"	30.21	6.01	42	.8	158(115-184)
24	37 19	75 32			"	15.51	5.01	0	-	-
25	37 20	75 38			"	11.61	1.01	0	-	-
26	37 28	75 34			"	17.11	1.01	0	-	-
27	37 26	75 28			"	20.41	3.01	0	-	-
28	37 25	75 22			"	26.51	1.01	0	-	-
29	37 23	75 11			"	30.21	5.01	11	< .1	152 -
30	37 20	75 10			"	29.61	6.01	17	.3	NM ^a
31	37 30	75 11			10-29	29.6	5.0	20	.4	152(115-184)
32	37 32	75 16			"	26.81	10.01	11	< .1	92 -
33	37 34	75 22			"	20.41	1.01	0	-	-
34	37 37	75 33			"	17.71	9.01	0	-	-
35	37 38	75 34			"	11.01	11.01	0	-	-
36	37 47	75 29			10-30	12.5	2.01	0	-	-
37	37 44	75 21			"	12.8	2.01	0	-	-
38	37 42	75 18			"	19.81	2.01	11	< .1	97 -
39	37 40	75 12			"	29.31	1.01	0	-	-
40	37 38	75 07			"	30.5	8.01	0	-	-
41	37 45	75 00			"	27.7	8.01	24	.4	116(45-164)
42	37 48	75 07			"	27.4	3.0	16	.3	134(70-169)
43	37 49	75 12			"	22.6	11.01	13	.2	113(85-129)
44	37 56	75 02			"	26.8	11.01	1	< .1	137 -
45	37 53	74 55			"	31.4	10.01	111	2.0	153(130-174)
46	37 50	74 51			"	34.7	3.0	23	.4	132(90-164)
47	37 58	74 44			"	27.7	3.0	10	.2	119(80-159)
48	38 01	74 53			"	24.7	4.0	25	.5	157(130-174)
49	38 03	74 56			"	29.9	6.0	44	.8	139(40-174)
50	38 06	75 04			"	16.5	2.0	26	.5	96(80-119)
51	38 08	75 09			"	13.71	5.0	1	< .1	87 -
52	38 14	75 01			"	18.6	3.0	12	.2	91(85- 99)
53	38 12	74 54			"	22.3	1.0	6	.1	107(95-124)
54	38 09	74 49			"	28.31	7.0	61	1.1	151(105-179)
55	38 18	74 46			"	23.8	5.0	72	1.3	138(90-174)
56	38 20	74 51			"	14.3	2.0	14	.3	152(100-179)
57	38 24	75 00			"	17.4	5.0	14	.3	124(95-139)
58	38 29	74 49			"	23.5	3.0	60	1.1	134(70-174)
59	38 31	74 54			11-21	16.5	1.5	44	.8	126(105-174)
60	38 34	74 59			"	14.0	2.0	0	-	-
61	38 40	74 52			"	26.8	1.0	0	-	-
62	38 38	74 47			11-31	18.9	4.0	94	1.7	132(60-184)

Table 7.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the Delmarva Peninsula area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
13	0	-	-	-	-
14	0	-	-	-	-
15	0	-	-	Shell	-
16	0	-	-	Shell	-
17	0	-	-	Shell-mud	-
18	0	-	-	Shell	-
19	0	-	-	Shell	-
20	0	-	-	Shell	-
21	0	-	-	Shell	-
22	0	-	-	-	-
23	1	< .1	87	Shell-sand	-
24	0	-	-	Shell-sand	-
25	0	-	-	Shell	-
26	0	-	-	-	-
27	0	-	-	-	-
28	0	-	-	Mud	-
29	0	-	-	Shell	-
30	0	-	-	Shell-gravel	-
31	0	-	-	Shell	-
32	0	-	-	Shell-sand-mud	-
33	0	-	-	Shell	-
34	0	-	-	Shell-mud	-
35	0	-	-	Shell-sand	-
36	0	-	-	Mud	-
37	0	-	-	-	-
38	0	-	-	-	-
39	0	-	-	Shell	-
40	0	-	-	Shell-sand	-
41	0	-	-	Shell-sand	-
42	0	-	-	Shell	-
43	0	-	-	Shell-mud	-
44	0	-	-	Shell-gravel	-
45	0	-	-	Shell-sand	-
46	18	.1	NM ^a	Shell	-
47	0	-	-	Shell	-
48	0	-	-	Shell	-
49	0	-	-	Shell	-
50	0	-	-	Shell	-
51	0	-	-	Shell-sand	-
52	0	-	-	Shell	-
53	0	-	-	Shell	-
54	0	-	-	Shell-mud	-
55	0	-	-	Shell-sand	-
56	0	-	-	Shell	-
57	0	-	-	Shell-sand-mud	-
58	0	-	-	Shell	-
59	0	-	-	Shell	-
60	0	-	-	Shell-clay-stone	-
61	0	-	-	Mud	-
62	0	-	-	Shell	-

Table 7.--Sample data for surf clams and Ocean quahogs during the fall 1965 R/V
Undaunted cruise in the Delmarva Peninsula area - Continued

Station number	Station location Lat. N. Long. W.				Date in 1965	Depth M.	Total bushels in dredge No.	<u>Spisula solidissima</u>		Average size & (range) mm.
								Clams	Bushels	
								No.	No.	
63	38 ⁰	36 ¹	74 ⁰	42	11-3	22.3	2.0	17	.3	130(90-169)
64	38	33	74	36	"	29.6	3.0	40	.7	144(95-169)
151	36	59	75	30	11-9	25.6	.8	1	< .1	62 -
152	36	58	75	25	"	25.9	1.0	0	-	-
153	36	56	75	19	"	28.0	3.5	13	.3	137(75-159)
180	38	25	74	41	11-11	33.2	0	0	-	-
181	38	33	74	35	"	36.9	1.5	0	-	-
182	38	20	74	32	"	36.6	1.5	5	.1	122(100-144)
183	38	12	74	34	"	41.5	5.0	31	.6	144(90-174)
184	38	15	74	39	11-12	39.6	.2	4	.1	165(160-169)
185	38	07	74	45	"	30.2	.1	0	-	-
186	38	05	74	38	"	31.1	.0	0	-	-
187	38	02	74	34	"	43.9	5.0	1	< .1	117 -
188	37	42	74	55	"	27.1	2.0	65	1.2	137(70-179)
189	37	31	74	50	"	53.9	4.0	0	-	-
190	37	33	74	55	"	33.2	1.0	4	.1	95(75-119)
191	36	53	75	13	11-13	29.0	5.0	15	.3	148(105-164)
192	36	50	75	07	"	31.4	2.0	1	< .1	172 -
193	36	48	75	00	"	32.6	4.0	3	.1	165(150-184)
194	36	45	74	53	"	37.8	7.0	7	.1	118(70-169)
195	36	43	74	49	"	48.5	3.0	8	.2	138(120-159)
196	36	42	74	47	"	59.4	10.0	0	-	-

Station number	Arctica islandica			General bottom materials	Odometer reading
	Clams	Bushels	Average size & (range)		
	No.	No.	mm.		
63	0	-	-	Shell	-
64	0	-	-	Shell	-
151	0	-	-	Shell	9
152	1	< .1	87	Shell	71
153	0	-	-	Shell	105
180	0	-	-	Shell	6
181	1	< .1	102	Shell	33
182	0	-	-	Shell	23
183	29	.2	90(70-109)	Shell	21
184	0	-	-	Shell	-
185	0	-	-	Shell	-
186	0	-	-	Shell	-
187	2	< .1	95(90- 99)	Shell	-
188	0	-	-	Shell	-
189	19	.1	80(65-104)	Shell	77
190	0	-	-	Shell	167
191	0	-	-	Shell	211
192	0	-	-	Shell	73
193	0	-	-	Shell	56
194	3	< .1	112(100-119)	Shell	115
195	0	-	-	Shell	8
196	2	< .1	115(110-119)	Shell-sand	52

Table 8.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the Virginia-North Carolina area

Station number	Station location Lat. N. Long. W.		Date in 1965	Depth	Total bushels in dredge	<u>Spisula solidissima</u>		Average size & (range)
						Clams	Bushels	
						No.	No.	mm.
1	36° 47'	75° 56'	10-27	10.4	1.0	0	-	-
2	36 46	75 49	"	15.2	2.0	1	< .1	87 -
3	36 43	75 44	"	18.3	2.0	0	-	-
4	36 42	75 37	"	17.1	3.0	0	-	-
5	36 41	75 32	"	17.4	1.0	1	< .1	77 -
6	36 39	75 25	"	22.3	3.0	0	-	-
7	36 37	75 19	"	31.7	1.5	0	-	-
8	36 45	75 15	"	28.0	6.0	1	< .1	97 -
9	36 47	75 21	10-28	21.6	4.8	92	.8	100(60-119)
10	36 48	75 26	"	20.7	5.0	0	-	-
11	36 50	75 32	"	19.2	2.0	0	-	-
12	36 53	75 38	"	18.0	.0	0	-	-
197	36 34	74 48	11-13	61.6	1.5	5	.1	108(100-114)
198	36 35	74 53	"	49.7	4.0	7	.1	127(85-149)
199	36 36	74 55	11-14	39.3	8.0	0	-	-
200	36 39	74 59	"	29.3	5.0	0	-	-
201	36 40	75 04	"	27.1	3.0	0	-	-
202	36 34	75 01	"	26.8	.5	5	.1	152(140-159)
203	36 31	75 04	"	38.7	.0	1	< .1	Broken
204	36 29	74 59	"	37.5	3.0	6	.1	144(90-164)
205	36 26	74 53	"	60.4	.5	1	< .1	Broken
206	36 17	74 56	"	60.0	.5	0	-	-
207	36 19	74 59	"	51.8	3.5	4	.1	126(110-134)
208	36 21	75 04	"	37.5	9.0	1	< .1	145 -
209	36 24	75 08	"	32.9	3.0	3	.1	72(40- 99)
210	36 16	75 14	"	35.4	6.0	0	-	-
211	36 14	75 08	"	35.1	.0	0	-	-
212	36 12	75 03	"	38.7	.3	0	-	-
213	36 10	74 59	"	39.0	1.0	3	.1	124(85-149)
214	36 07	74 55	"	78.6	.0	0	-	-
215	36 00	74 59	"	78.6	.0	0	-	-
216	36 01	75 00	"	51.8	.0	0	-	-
217	36 04	75 06	"	35.1	1.0	0	-	-

Table 8.--Sample data for surf clams and ocean quahogs during the fall 1965 R/V
Undaunted cruise in the Virginia-North Carolina area - Continued

Station number	<u>Arctica islandica</u>			General bottom materials	Odometer reading
	<u>Clams</u>	<u>Bushels</u>	<u>Average size & (range)</u>		
	<u>No.</u>	<u>No.</u>	<u>mm.</u>		
1	0	-	-	-	-
2	0	-	-	Shell	-
3	0	-	-	Shell	-
4	0	-	-	Shell	-
5	0	-	-	Shell	-
6	0	-	-	Shell	-
7	0	-	-	Shell	-
8	0	-	-	Shell-mud	-
9	0	-	-	Shell	-
10	0	-	-	Shell	-
11	0	-	-	Shell	-
12	0	-	-	-	-
197	14	.1	83(55-104)	Shell	61
198	6	< .1	85(75- 99)	Shell	55
199	2	< .1	105(100-109)	Shell-sand	109
200	0	-	-	Shell	162
201	0	-	-	Shell	221
202	0	-	-	Shell	269
203	0	-	-	Shell	94
204	0	-	-	Shell	183
205	4	< .1	90(80-104)	Shell	102
206	0	-	-	Shell	99
207	5	< .1	75(70- 84)	Shell	37
208	11	.1	83(55- 94)	Shell	177
209	0	-	-	Shell	190
210	0	-	-	Shell	102
211	0	-	-	-	144
212	0	-	-	Shell	83
213	0	-	-	Shell	249
214	0	-	-	Shell	6
215	0	-	-	-	2
216	0	-	-	Shell	8
217	0	-	-	Shell	177

Table 9.--Sample data for surf clams during several cruises of the R/V
Albatross

Cruise	Station number	Station location				Date	Depth
		lat. N.		Long. W.			
		°	'	°	'		M.
70	1	40	50	69	39	12- 6-55	37
"	37a	41	54	67	14	12-14-55	60
69	7	40	33	68	39	11-16-55	--
"	26	41	55	67	39	12-12-55	--
"	35	41	53	66	37	12-14-55	--
101	63	41	26	68	19	8-24-57	--
"	68	41	06	68	00	"	48
"	90	41	34	67	28	"	42
"	106	42	06	67	09	8-25-57	48
63-5	141 (Part)	40	37	69	01	12- 8-63	66

Cruise	<u>Spisula</u> <u>solidissima</u>	Weight
	<u>No.</u>	<u>Gms.</u>
70	9	---
"	2	---
69	2	---
"	4	---
"	1	---
101	2	.02
"	1	.02
"	3	.01
"	3	.22
63-5	3	---

Table 10.--Sample data for surf clams during a cruise of the R/V Delaware

Cruise	Station number	Transect	Tow	Station location				Date	Depth
				Lat.	N.	Long.	W.		
				O	'	O	'		M.
60-7	-	3	1	39	24	73	24	5-14-60	36.6
"	-	3	2	39	19	73	18	"	54.9
"	-	4	1	38	40	74	17	"	36.6
"	-	5	1	37	51	74	51	5-15-60	32.9
"	-	6	1	36	56	75	18	5-16-60	31.1
"	-	6	2	36	53	74	59	"	36.6
"	-	7	1	36	09	75	20	"	32.9
"	-	7	2	36	11	75	07	"	36.6
"	-	7-8	Alt. 9	35	41	75	07	5-17-60	36.6
"	-	8-7	Alt. 11	36	00	75	04	"	32.9
"	-	7-6	Alt. 13	36	30	75	01	"	32.9
"	-	7-6	Alt. 14	36	45	75	05	"	29.3
"	-	7-6	Alt. 15	36	51	75	05	"	29.3
"	-	7-5	Alt. 16	36	59	74	59	"	43.9
"	-	5	Alt. 19	37	42	74	30	5-18-60	60.4
"	-	4-3	Alt. 26	38	49	73	39	5-19-60	54.9
"	-	4-3	Alt. 28	39	03	73	41	"	42.1
"	-	3-2	Alt. 33	39	39	73	12	"	40.3
"	-	3-2	Alt. 34	39	51	73	20	"	40.3
"	-	3-2	Alt. 35	40	03	73	09	"	40.3
"	-	3-2	Alt. 37	40	05	72	49	5-20-60	51.2
"	-	2-1	Alt. 45	40	43	72	25	"	36.6
"	-	2-1	Alt. 46	40	48	72	04	"	38.4
"	-	2-1	Alt. 47	40	40	71	59	"	51.2

Table 10.--Sample data for surf clams during a cruise of the R/V Delaware -
Continued

<u>Cruise</u>	<u>Spisula solidissima</u>	<u>Size</u>
	<u>No.</u>	<u>mm.</u>
60-7	2	88-94
"	1	144
"	many	82
"	13	122-172
"	15	120-145
"	13	46-140
"	shells	-
"	100+(a)	50-102
"	many	50-80
"	- (b)	35-115
"	9	40-148
"	7(c)	-
"	18	8-116
"	6	23-129
"	1	85
"	60+	10-30
"	2	44-152
"	6(d)	170
"	1	156
"	1	130
"	1	142
"	1(e)	66.2
"	1	47
"	1	163
"	1	

(a) Many smaller than 25 mm.

(b) About a 2 liter quantity.

(c) One clam was 131 mm. long, the other six unmeasured.

(d) Five clams were 31-64 mm. long.

(e) Fragments of surf clam shells in catch.

Table 11.--Sample data for surf clams during several cruises of the
R/V Gosnold

Station number	Station location				Date	Depth
	Lat. N.		Long. W.			
	O	'	O	'		
						M.
1012	41	27	70	15	5- 2-63	20
1057	41	05	70	00	5- 9-63	28
1313	39	41	73	45	10-13-63	23
1345	39	10	74	15	10-16-63	21
1353	38	52	73	45	10-19-63	44
1379	39	45	74	02	10-25-63	12
1395	40	48	72	30	10-26-63	23
1425	36	45	74	59	5-17-64	36
1428	36	20	75	14	5-17-64	32
1430	36	00	75	14	5-17-64	35

<u>Station number</u>	<u>Spisula solidissima</u>	<u>Weight</u>	<u>Remarks</u>
	<u>No.</u>	<u>Gms.</u>	
1012	1	.41	Nantucket Sound
1057	1	1.96	S. of Nantucket
1313	1	7.76	Shelf E. of N. J.
1345	1	.03	" " " "
1353	1	.11	" " " "
1379	12	.31	" " " "
1395	4	.55	Shelf S. of L. I.
1425	7	362.52	E. of Cape Henry
1428	2	.02	" " " "
1430	3	.01	E. Albemarle Sound

Table 12.--Sample data for ocean quahogs during several cruises of the
R/V Albatross

Cruise	Station number	Station location				Date	Depth
		Lat. N.		Long. W.			
		O	↑				M.
101	36	40	25	68	51	8-23-57	81
"	37	40	29	68	52	"	71
"	49	41	30	68	40	"	146
"	62	41	31	68	23	8-24-57	46
"	70	40	57	67	52	"	51
"	71	40	53	67	48	"	60
"	84	41	04	67	29	"	60
"	132	41	24	66	20	8-26-57	112
"	163	41	35	66	45	8-27-57	71
"	180	40	46	67	37	8-27-57	75
63-5	97 (Part 1)	41	48	68	11	11-26-63	92
"	161 (Part 2)	39	49	73	51	12-11-63	22

Cruise	Arctica islandica	Weight
	No.	Gms.
101	1	25.30
"	1	25.65
"	1	36.73
"	2	.21
"	2	22.63
"	6	.61
"	12	13.29
"	1 shell	--
"	1	3.20
"	1	.45
63-5	1 shell	--
"	1 live	--

Table 13.--Sample data for ocean quahogs during several cruises of the R/V Delaware

Cruise	Station number	Transect	Tow	Station location				Date	Depth
				Lat.	N.	Long.	W.		
				O	T	O	T		M.
60-7	-	1	2	40	49	71	20	5-12-60	58.6
"	-	1	5	40	10	71	30	5-13-60	146.4
"	-	2	2	40	18	72	35	"	51.2
"	-	2	3	40	02	72	22	"	73.2
"	-	2	5	39	44	72	04	"	146.4
"	-	3	1	39	24	73	24	5-14-60	36.6
"	-	3	2	39	19	73	18	"	54.9
"	-	3	3	39	09	73	08	"	73.2
"	-	3	4	39	02	72	52	"	111.6
"	-	4	1	38	40	74	17	"	36.6
"	-	4	2	38	29	74	05	5-15-60	54.9
"	-	4	4	38	18	73	47	"	109.8
"	-	5	2	37	45	74	36	"	54.9
"	-	5	3	37	39	74	24	"	73.2
"	-	5	4	37	37	74	19	"	109.8
"	-	5	5	37	36	74	17	"	146.4
"	-	6	1	36	56	75	18	5-16-60	31.1
"	-	6	3	36	51	74	45	"	73.2
"	-	7-8	8	35	54	74	55	5-17-60	65.9
"	-	7-6	13	36	30	75	01	"	32.9
"	-	6-5	16	36	59	74	59	"	43.9
"	-	5	19	37	42	74	30	5-18-60	60.4
"	-	5-4	20	37	50	74	24	"	64.1
"	-	5-4	21	38	03	74	17	"	58.6
"	-	5-4	22	38	20	74	14	"	51.2
"	-	4	23	38	25	73	56	"	62.2
"	-	4-3	26	38	49	73	39	5-19-60	54.9
"	-	4-3	27	38	52	73	23	"	65.9
"	-	4-3	28	39	03	73	41	"	42.1
"	-	4-3	29	39	04	73	21	"	58.6
"	-	3	30	39	11	73	07	"	65.9
"	-	3-2	31	39	20	72	52	"	73.2
"	-	3-2	32	39	29	73	02	"	67.7
"	-	3-2	33	39	39	73	12	"	40.3
"	-	3-2	34	39	51	73	20	"	40.3
"	-	3-2	35	40	03	73	09	"	40.3
"	-	3-2	36	40	20	73	01	"	40.3
"	-	3-2	37	40	05	72	49	5-20-60	51.2
"	-	3-2	39	39	40	72	49	"	69.5
"	-	3-2	40	39	45	72	28	"	80.5
"	-	2-1	43	40	19	72	09	"	62.2
"	-	2-1	44	40	30	72	17	"	58.6
"	-	2-1	46	40	48	72	04	"	38.4
"	-	2-1	47	40	40	71	59	"	51.2
"	-	2-1	52	40	47	71	39	5-21-60	65.9
"	-	2-1	53	40	59	71	44	"	47.6
"	-	2-1	54	41	03	71	34	"	42.1

Table 13.--Sample data for ocean quahogs during several cruises of the R/V
Delaware - Continued

Cruise	Station number	Transect	Tow	<u>Arctica islandica</u>	<u>Size</u>
				<u>No.</u>	<u>mm.</u>
60-7	-	1	2	1	84
"	-	1	5	few fragments	
"	-	2	2	2	81-106
"	-	2	3	9	40-105
"	-	2	5	16	52-83
"	-	3	1	1	26
"	-	3	2	23	67-110
"	-	3	3	3	87-95
"	-	3	4	1 valve; 5 fragments	
"	-	4	1	3	90-108
"	-	4	2	4	81-112
"	-	4	4	10	75-97
"	-	5	2	1	98
"	-	5	3	5	60-110
"	-	5	4	7	82-99
"	-	5	5	1	90
"	-	6	1	empty shell	
"	-	6	3	8	83-103
"	-	7-8	8	1	84
"	-	7-6	13	4	46-79
"	-	6-5	16	1	103
"	-	5	19	1	91
"	-	5-4	20	3	78-99
"	-	5-4	21	1	80
"	-	5-4	22	4	94-104
"	-	4	23	18	45-97
"	-	4-3	26	8	88-97
"	-	4-3	27	6	75-99 valves
"	-	4-3	28	1	102
"	-	4-3	29	1	80
"	-	3	30	1	87
"	-	3-2	31	3	35-72
"	-	3-2	32	2	10-12
"	-	3-2	33	4	88-130
"	-	3-2	34	fragments	
"	-	3-2	35	3	84-103
"	-	3-2	36	1	87
"	-	3-2	37	2	70-88
"	-	3-2	39	22	65-100
"	-	3-2	40	3	66-95
"	-	2-1	43	4	75-105
"	-	2-1	44	5	75-112
"	-	2-1	46	3	89-108
"	-	2-1	47	5	87-103
"	-	2-1	52	4	56-86
"	-	2-1	53	16	61-78
"	-	2-1	54	2	94-95

Table 13.--Sample data for ocean quahogs during several cruises of the R/V Delaware - Continued

Cruise	Station number	Transect	Tow	Station location				Date	Depth
				Lat.	N.	Long.	W.		
				O	'	O	'		M.
61-10	92a (WHOI M)	-	-	43	50	67	45	6-27-61	256
"	66a (WHOI M)	-	-	43	30	69	15	6-25-61	174
62-7	4	-	-	40	30	69	29	6-13-62	62
WHOI Code	17	-	-	40	39	69	59	6-15-62	49
N #2	27	-	-	40	50	70	15	6-15-62	44
Samples.	35	-	-	40	20	70	30	6-16-62	97
	64	-	-	41	00	71	30	6-19-62	156
62-7	3	-	-	40	40	69	31	6-13-62	51
(WHOI Code	5	-	-	40	21	69	30	"	77
N)	12	-	-	40	20	69	46	6-14-62	79
	18	-	-	40	30	70	00	6-15-62	73
	25	-	-	40	30	70	15	"	70
	28	-	-	41	00	70	15	6-16-62	33
	30	-	-	41	10	70	30	"	38
	32	-	-	40	50	70	30	"	59
	33	-	-	40	40	70	30	"	62
	34	-	-	40	30	70	30	"	73
	48	-	-	40	50	71	00	6-18-62	59
	60	-	-	40	40	71	15	6-19-62	62

Cruise	Station number	Transect	Tow	Arctica islandica		Weight
				No.	Gms.	
61-10	92a (WHOI M)	-	-	1	.01	
"	66a (WHOI M)	-	-	2	.25	
62-7	4	-	-	1	103.26	
WHOI Code	17	-	-	2	103.10	
N #2	27	-	-	1	13.89	
Samples.	35	-	-	2	.01	
	64	-	-	1	88.35	
62-7	3	-	-	1	173.52	
(WHOI Code	5	-	-	1	42.35	
N)	12	-	-	1+2	266.80; 7.26	
	18	-	-	5+4	27.94; 62.58	
	25	-	-	1+2	.50; .05	
	28	-	-	1	175.81	
	30	-	-	?		
	32	-	-	1+6	.05; .11	
	33	-	-	5	.30	
	34	-	-	1+1	.30; .01	
	48	-	-	1+2	107.40; 147.42	
	60	-	-	1+1	1.48; 1.30	

Table 14.--Sample data for ocean quahogs during several cruises of the R/V Gosnold in the area from Long Island, N.Y., to northward into the Gulf of Maine

Station number	Station location				Date	Depth
	Lat N.		Long. W.			
	°	'	°	'		M.
1182	44	02	69	00	8-12-63	86
1186	43	29	67	29	8-15-63	90
1188	42	20	69	01	8-16-63	221
1195	42	20	69	58	"	211
1258	41	06	71	26	10- 3-63	38
1256	41	25	71	05	"	23
1221	41	30	67	01	8-27-63	66
1211	42	00	69	56	8-24-63	48
1206	41	50	70	14	8-17-63	28
1204	42	00	70	30	"	38
1015	42	40	70	30	5- 3-63	92
1021	43	19	70	27	"	37
1023	43	29	70	17	"	45
1024	43	30	70	01	"	117
1034	43	50	68	46	5- 4-63	102
1037	44	20	67	29	5- 5-63	111
1040	44	20	67	45	"	75
1041	44	20	68	00	"	38
1042	44	10	68	01	"	89
1043	44	08	68	13	"	57
1048	42	20	68	28	5- 6-63	203
1053	41	20	71	00	5- 9-63	33
1059	40	31	68	29	5-10-63	94
1103	41	11	69	40	8- 5-63	23
1120	41	01	67	16	8- 7-63	74
1121	41	17	67	16	"	57
1123	40	59	67	01	"	74
1124	41	00	66	30	"	114
1125	41	16	66	31	"	95
1127	41	30	66	32	"	88
1138	42	29	65	26	8- 8-63	104
1164	44	08	66	17	8-10-63	51
1165	44	09	66	29	"	87
1173	44	28	67	15	8-11-63	116
1181	43	58	68	30	8-12-63	94
1409	41	22.6	70	10.7	4-22-64	14
1413	41	31.5	70	40.6	"	9
1414	41	31.3	70	48.5	5-12-64	28

Table 14.--Sample data for ocean quahogs during several cruises of the
R/V Gosnold in the area from Long Island, N.Y., to northward
into the Gulf of Maine - Continued

<u>Station number</u>	<u>Arctica islandica</u>	<u>Weight</u>
	<u>No.</u>	<u>Gms.</u>
1182	1	3.78
1186	10	161.41
1188	1	.03
1195	2	.01
1258	1	132.97
1256	2	.50
1221	1	139.41
1211	1	.01
1206	1	98.80
1204	1	142.88
1015	5	.35
1021	26	2.80
1023	4	157.00
1024	1	.01
1034	11	19.26
1037	32	14.72
1040	6	14.35
1041	2	154.52
1042	35	92.20
1043	2	.04
1048	1	.01
1053	5	560.38
1059	1	1.48
1103	2	.04
1120	1	29.61
1121	11	446.73
1123	3	353.38
1124	2	.38
1125	4	7.80
1127	4	134.00
1138	1	2.85
1164	18	152.35
1165	1	.08
1173	3	.09
1181	17	18.28
1409	51	2.69
1413	5	.05
1414	24	702.20

Table 15.--Sample data for ocean quahogs during several cruises of the R/V Gosnold in the area of Long Island, N.Y., to Cape May, N.J.

Station number	Station location				Date	Depth
	Lat. N.		Long. W.			
	O	T	O	T		
						M.
1293	40	10	72	30	10-11-63	64
1295	40	10	72	00	"	67
1296	40	10	72	30	10-12-63	69
1297	39	59	72	45	"	56
1298	40	00	73	00	"	51
1299	40	01	73	15	"	50
1285	40	21	72	45	10-11-63	52
1284	40	21	72	30	"	52
1283	40	22	72	16	"	61
1282	40	22	72	02	10-10-63	57
1281	40	30	72	00	"	54
1280	40	30	72	16	"	49
1279	40	31	72	30	"	44
1278	40	40	72	30	"	38
1277	40	41	72	16	"	53
1275	40	40	71	46	"	59
1259	41	01	71	40	10- 4-63	45
1400	40	50	71	44	10-26-63	54
1066	40	42	71	31	5-12-63	68
1084	40	25	71	45	5-13-63	76
1300	40	01	73	30	10-12-63	45
1301	40	01	73	45	"	36
1305	39	50	73	01	"	79
1307	39	50	72	30	10-13-63	64
1315	39	30	74	14	"	14
1320	39	20	73	15	10-14-63	55
1321	39	20	73	01	"	71
1338	39	01	73	01	10-15-63	80
1340	39	10	73	15	"	64
1342	39	01	73	30	10-16-63	54
1347	39	00	74	30	"	25
1350	38	50	74	00	10-18-63	46
1354	38	51	73	32	10-19-63	62
1361	38	40	73	46	"	54
1362	38	40	74	00	"	49
1363	38	30	73	46	"	64
1364	38	31	73	30	"	79
1374	39	30	73	01	10-25-63	69
1384	40	14	73	44	"	37
1390	40	30	72	58	10-26-63	40
1393	40	40	72	46	"	31
1397	40	52	72	15	"	30
1415	38	30	74	00	5-16-64	57

Table 15.--Sample data for ocean quahogs during several cruises of the
R/V Gosnold in the area of Long Island, N.Y., to Cape May,
N. J.

<u>Station number</u>	<u>Arctica islandica</u>	<u>Weight (0.01)</u>
	<u>No.</u>	<u>Gms.</u>
1293	3	17.12
1295	3	33.21
1296	1	95.65
1297	1	2.61
1298	4	134.53
1299	3	60.51
1285	3	24.95
1284	3	124.
1283	6	100.12
1282	10	176.75
1281	4	67.50
1280	1	58.35
1279	1	124.76
1278	2	25.39
1277	7	381.15
1275	1	2.78
1259	2	39.56
1400	1	42.78
1066	2	.08
1084	3	.46
1300	1	46.51
1301	2	.13
1305	1	123.86
1307	3	.11
1315	1	8.06
1320	1	326.72
1321	4	27.60
1338	1	.02
1340	2	139.11
1342	1	167.16
1347	5	.09
1350	5	40.40
1354	13	.10
1361	3	27.68
1362	1	13.65
1363	1	.08
1364	18	.39
1374	2	76.21
1384	1	6.02
1390	1	84.57
1393	1	103.26
1397	1	83.40
1416	27	4.22

Table 16.--Sample data for ocean quahogs during several cruises of the R/V Gosnold in the area of Cape May, N.J., to Cape Hatteras, N.C.

<u>Station number</u>	<u>Station location</u>				<u>Date</u>	<u>Depth</u>
	<u>Lat. N.</u>		<u>Long. W.</u>			
	<u>O</u>	<u>'</u>	<u>O</u>	<u>'</u>		
						<u>M.</u>
1878	36	40	74	45.1	6-27-64	86
1890	36	56.8	74	44.9	6-28-64	82
2104	38	10	74	28.5	8-10-64	41
1428	36	20.3	75	14.4	5-17-64	32
1430	35	59.6	75	14	"	35
1425	36	44.8	74	58.8	"	36

<u>Station number</u>	Arctica islandica	Weight
	<u>No.</u>	<u>Gms.</u>
1878	9	.43
1890	1	165.73
2104	1	201.36
1428	2	.02
1430	3	.01
1425	7	362.52