SOUTH ATLANTIC OCS AREA LIVING MARINE RESOURCES STUDY

VOLUME III

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FINAL REPORT

SOUTH ATLANTIC OCS AREAS
LIVING MARINE RESOURCES STUDY

APPENDICES

Prepared for
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PREFACE

This volume contains data utilized for the analyses presented in Volumes I and II. Supplementary data are also presented, which may be useful to the reader but not essential to the analyses. Appendices 1-17 represent data obtained from the nine study areas south of Cape Fear, N. C., Appendices 18-29 represent data obtained from the three study areas north of Cape Fear, and Appendix 30 lists all references cited in Volumes I and II.

APPENDICES FOR VOLUME I

Appendix 1. Field records obtained for each sample collection during the winter cruise 1980. Collection numbers are listed in numerical order by station. Keys to the following coded information are listed on this page.

Category	Code
Vessel:	BB - R/V Bagby
	DP - R/V Dolphin
Gear:	014 - Hook and line
	041 - Mini-Antillean s-trap
	043 - Snapper reel
	058 - Smith-MacIntyre grab
	061 - Vertical long line
	064 - Suction sampler
	065 - Spear gun collection
	066 - Rock collection
	067 - Rock dredge
	068 - Transmissometer
	069 - Burrell sled, 374 m mesh
	070 - 40/54 fly net
	072 - Cerame-Vivas dredge
	074 - Florida Antillean trap
	300 - Niskin bottles - standard cast
	303 - Fathometer plus Loran
	498 - Edgerton camera
	499 - Ground truth photography with Nikonos camera
	506 - Towed TV transect - horizontal
	508 - Swimming transects with diver observations and/or collections
Catch:	0 - No catch
	1 - Catch with finfish
	2 - Catch without finfish
	3 - No catch - gear lost or damaged
	4 - Catch inadvertently mixed
	5 - Net obstructed by Stomolophus
	6 - Catch questionable - net or gear damaged
	7 - NA
Light Phase:	1 - Day
	2 - Night
	3 - Dawn
	4 - Dusk

Category	Code
Cloud Cover:	A - Clear
	B - 10% or less
	C - 20-30%
	D - 40%
	E - 50%
	F - 60%
	G - 70-80%
	H - 90%
	I - 100%
	J - No estimate
Precipitation:	0 - None
	1 - Light rain
	2 - Moderate rain
	3 - Heavy rain
Wind Direction:	00 - No motion
	01 - 005° - 014°
	02 - 015° - 024°
	03 - 025° - 034°
	. . .
	. . .
	. . .
	35 - 345° - 354°
	36 - 355° - 004°
	99 - Variable or unknown
Sea State:	0 - Glassy
	1 - > 0.0 - ≤ 0.1
	2 - > 0.1 - ≤ 0.5
	3 - > 0.5 - ≤ 1.25
	4 - > 1.25 - ≤ 2.5
	5 - > 2.5 - ≤ 4.0
	6 - > 4.0 - ≤ 6.0
	7 - > 6.0 - ≤ 9.0
	8 - > 9.0 - ≤ 14.0
	9 - > 14.0

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS01	800034	DP	1	16	506		139	2	170	20		A	0	15.0	22.4	32	3	2	32 28.7	79 40.6
IS01	800035	DP	1	16	506		515	2	77	17		A	0	13.0				1	32 29.9	79 42.7
IS01	800036	DP	1	16	300	7	657	2	26	20	7.5	A	0	16.0	23.0	4	1	1	32 28.9	79 41.9
IS01	800037	DP	1	16	068	7	733	2	7	20		A	0	15.0	23.0	4	3	1	32 29.1	79 42.2
IS01	800038	DP	1	16	506		857	2	57	21		A	0	15.0	23.0	4	3	1	32 28.8	79 41.4
IS01	800039	DP	1	16	043	0	1209	3	19	18		G	0	14.0				1	32 28.8	79 42.3
IS01	800040	DP	1	16	043	0	1209	3	19	18		G	0	14.0				1	32 28.8	79 42.3
IS01	800041	DP	1	16	043	0	1209	3	19	18		G	0	14.0				1	32 28.8	79 42.3
IS01	800042	DP	1	16	041	1	1145	3	64	18		G	0	14.0				1	32 29.9	79 42.1
IS01	800043	DP	1	16	041	1	1151	3	62	18		G	0	14.0				1	32 29.6	79 42.2
IS01	800044	DP	1	16	061	1	1157	3	70	18		G	0	14.0				1	32 29.3	79 42.3
IS01	800045	DP	1	16	061	1	1157	3	74	18		G	0	14.0				1	32 29.2	79 42.3
IS01	800046	DP	1	16	061	1	1203	3	70	18		G	0	14.0				1	32 29.0	79 42.3
IS01	800047	DP	1	16	061	1	1203	3	85	18		G	0	14.0				1	32 28.9	79 42.3
IS01	800048	DP	1	16	506		1457	1	19	18		I	0	18.0				1	32 29.9	79 43.0
IS01	800049	DP	1	16	498		1457	1	19	18		I	0	18.0				1	32 29.9	79 43.0
IS01	800050	DP	1	16	506		1527	1	21	18		G	0	17.0				1	32 29.5	79 42.3
IS01	800051	DP	1	16	498		1527	1	21	18		G	0	17.0				1	32 29.5	79 42.3
IS01	800052	DP	1	16	506		1633	1	33	18		G	0	17.0	25.4	4	4	3	32 29.6	79 42.6
IS01	800053	DP	1	16	498		1633	1	33	18		G	0	17.0	25.4	4	4	3	32 29.6	79 42.6
IS01	800054	DP	1	16	070	1	1751	1	8	18		H	0	15.0	24.7	4	4	1	32 29.3	79 42.5
IS01	800055	DP	1	16	070	1	1851	1	17	18		H	0	18.0	24.0	4	6	1	32 29.2	79 42.9
IS01	800056	DP	1	16	070	1	1957	1	11	19		G	0	18.0	23.7	4	6	1	32 29.4	79 41.8
IS01	800057	DP	1	16	041	2	2157	4	60	18		G	0	17.0	23.4	4	6	2	32 29.7	79 42.4
IS01	800058	DP	1	16	041	0	2157	4	65	18		G	0	17.0	23.4	4	6	2	32 29.8	79 42.5
IS01	800059	DP	1	16	061	1	2203	4	75	18		G	0	17.0	23.4	4	6	2	32 29.9	79 42.7
IS01	800060	DP	1	16	061	1	2203	4	80	18		G	0	17.0	23.4	4	6	2	32 30.0	79 42.9
IS01	800061	DP	1	16	061	1	2203	4	90	18		G	0	17.0	23.4	4	6	2	32 30.1	79 43.1
IS01	800062	DP	1	16	061	1	2209	4	95	18		G	0	17.0	23.4	4	6	2	32 30.1	79 43.3
IS01	800063	DP	1	16	043	0	2215	4	15	18		G	0	17.0	23.4	4	6	2	32 29.7	79 42.3
IS01	800064	DP	1	16	043	0	2215	4	15	18		G	0	17.0	23.4	4	6	2	32 29.7	79 42.3
IS01	800065	DP	1	16	043	0	2215	4	15	18		G	0	17.0	23.4	4	6	2	32 29.7	79 42.3
IS01	800066	DP	1	17	069	1	057	2	6	18		G	0	16.0	23.4	7	5	2	32 29.3	79 42.1
IS01	800067	DP	1	17	069	1	133	2	7	18		G	0	16.0	23.4	7	5	2	32 30.0	79 41.9
IS01	800068	DP	1	17	067	2	209	2	3	18		G	0	16.0	23.4			2	32 30.0	79 42.3
IS01	800069	DP	1	17	067	2	303	2	4	18		G	0	16.0	23.4			2	32 29.4	79 42.2
IS01	800070	DP	1	17	070	1	533	2	13	17		G	0	16.0	23.4	7	4	2	32 28.9	79 42.6
IS01	800071	DP	1	17	070	1	721	2	16	17		D	0	16.0	23.0	7	5	2	32 29.1	79 42.4
IS01	800072	DP	1	17	070	1	821	2	15	17		D	0	15.0	22.7	7	4	2	32 29.5	79 42.5
IS01	805001	BB	1	21	499		2039	1	20	19		H	0	14.0	24.4	4	6	4	32 29.6	79 42.5
IS01	805002	BB	1	21	499		2039	1	20	19		H	0	14.0	24.4	4	6	4	32 29.6	79 42.5
IS01	805003	BB	1	21	508	1	2039	1	20	19		H	0	14.0	24.4	4	6	4	32 29.6	79 42.5
IS01	805004	BB	1	21	499		2133	1	18	19		I	0	14.0	24.4	4	5	4	32 29.6	79 42.5
IS01	805005	BB	1	21	064	2	2215	4	19	19		I	0	14.0	23.4	4	5	3	32 29.6	79 42.5
IS01	805006	BB	1	21	064	2	2215	4	19	19		I	0	14.0	23.4	4	5	3	32 29.6	79 42.5

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS01	805007	BB	1	22	064	2	1339	1	24	19		H	0	16.0	21.0	22	3	3	32 29.6	79 42.5
IS01	805008	BB	1	22	064	2	1339	1	24	19		H	0	16.0	21.0	22	3	3	32 29.6	79 42.5
IS01	805009	BB	1	22	064	2	1339	1	24	19		H	0	16.0	21.0	22	3	3	32 29.6	79 42.5
IS02	800073	DP	1	17	506		1933	1	24	18		I	0	18.0	19.6	9	5	1	31 23.9	80 53.1
IS02	800074	DP	1	17	506		2033	1	26	18		H	0	20.0	19.6	9	5	1	31 24.1	80 52.8
IS02	800075	DP	1	17	506		2151	1	20	18		I	0	18.0	19.6	16	5	1	31 23.8	80 52.9
IS02	800076	DP	1	17	498		2151	1	20	18		I	0	18.0	19.6	16	5	1	31 23.8	80 52.9
IS02	800125	DP	1	28	300	7	1551	1	17	15		I	0	10.0	20.0	2	8	2	31 23.9	80 53.4
IS02	800126	DP	1	28	068	7	1633	1	15	15		I	0	10.0	20.0	2	8	2	31 23.9	80 53.4
IS02	800127	DP	1	28	506		1803	1	44	16		I	0	9.0	19.6	2	5	2	31 24.3	80 53.3
IS02	800128	DP	1	28	498		1803	1	44	16		I	0	9.0	19.6	2	5	2	31 24.3	80 53.3
IS02	800129	DP	1	28	506		1933	1	26	16		I	0	9.0	19.0	2	5	2	31 23.9	80 53.5
IS02	800130	DP	1	28	498		1933	1	26	16		I	0	9.0	19.0	2	5	2	31 23.9	80 53.5
IS02	800131	DP	1	28	067	2	2033	1	8	16		I	0	12.0	19.0	4	4	2	31 23.5	80 53.2
IS02	800132	DP	1	28	041	0	2145	4	80	16		I	0	12.0	19.0	4	4	2	31 24.2	80 53.0
IS02	800133	DP	1	28	041	0	2145	4	72	16		I	0	12.0	19.0	4	4	2	31 24.1	80 53.0
IS02	800134	DP	1	28	061	0	2145	4	83	16		I	0	12.0	19.0	4	4	2	31 24.0	80 53.0
IS02	800135	DP	1	28	061	1	2151	4	86	16		I	0	12.0	19.0	4	4	2	31 23.9	80 53.1
IS02	800136	DP	1	28	061	0	2151	4	90	16		I	0	12.0	19.0	4	4	2	31 23.7	80 53.1
IS02	800137	DP	1	28	061	1	2151	4	93	16		I	0	12.0	19.0	4	4	2	31 23.6	80 53.2
IS02	800138	DP	1	28	043	1	2203	4	40	20		I	0	13.0	19.0	4	3	2	31 23.9	80 53.0
IS02	800139	DP	1	28	043	1	2203	4	40	20		I	0	13.0	19.0	4	3	2	31 23.9	80 53.0
IS02	800140	DP	1	28	043	1	2203	4	40	20		I	0	13.0	19.0	4	3	2	31 23.9	80 53.0
IS02	800141	DP	1	29	067	2	027	2	5	16		I	0	13.0	19.3		3	1	31 23.9	80 53.1
IS02	800142	DP	1	29	069	1	133	2	8	18		I	0	13.0	20.0		3	1	31 24.0	80 53.3
IS02	800143	DP	1	29	069	1	221	2	9	18		I	0	13.0	20.0		3	1	31 23.8	80 53.3
IS02	800144	DP	1	29	070	1	333	2	15	18		I	0	14.0	20.3		3	1	31 24.0	80 53.0
IS02	800145	DP	1	29	070	1	609	2	15	18		G	0	14.0	20.0	22	4	2	31 24.1	80 53.2
IS02	800146	DP	1	29	070	1	715	2	16	16		G	0	12.0	20.0	22	4	2	31 24.0	80 53.3
IS02	800147	DP	1	29	041	0	1121	3	49	18		A	0	11.0	20.7	22	4	1	31 24.2	80 53.1
IS02	800148	DP	1	29	041	0	1121	3	55	18		A	0	11.0	20.7	22	4	1	31 24.1	80 53.2
IS02	800149	DP	1	29	061	0	1127	3	58	18		A	0	11.0	20.7	22	4	1	31 24.0	80 53.2
IS02	800150	DP	1	29	061	0	1127	3	62	18		A	0	11.0	20.7	22	4	1	31 23.9	80 53.3
IS02	800151	DP	1	29	061	1	1127	3	65	18		A	0	11.0	20.7	22	4	1	31 23.8	80 53.3
IS02	800152	DP	1	29	061	1	1133	3	72	18		A	0	11.0	20.7	22	4	1	31 23.7	80 53.4
IS02	800153	DP	1	29	043	0	1139	3	15	18		A	0	11.0	20.7	22	4	1	31 23.7	80 53.2
IS02	800154	DP	1	29	043	0	1139	3	15	18		A	0	11.0	20.7	22	4	1	31 23.7	80 53.2
IS02	800155	DP	1	29	043	0	1139	3	15	18		A	0	11.0	20.7	22	4	1	31 23.7	80 53.2
IS02	800156	DP	1	29	070	1	1339	1	14	18		A	0	14.0	21.7	25	6	1	31 23.9	80 53.1
IS02	800157	DP	1	29	070	1	1603	1	17	18		A	0	16.0	22.4	32	6	2	31 23.2	80 53.3
IS02	800158	DP	1	29	070	6	1657	1	7	18		A	0	13.0	22.4	32	6	2	31 24.0	80 53.4
IS02	805010	BB	1	30	499		1457	1	18	19		A	0	12.0	30.1	4	4	4	31 23.6	80 53.2
IS02	805011	BB	1	30	499		1457	1	18	19		A	0	12.0	30.1	4	4	4	31 23.6	80 53.2
IS02	805012	BB	1	30	508	1	1457	1	18	19		A	0	12.0	30.1	4	4	4	31 23.6	80 53.2
IS02	805013	BB	1	30	499		1539	1	25	19		A	0	11.0	30.8	4	3	3	31 23.6	80 53.2

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS02	805014	BB	1	30	064	2	1615	1	23	19		A	0	11.0	30.8	4	3	3	31 23.6	80 53.2
IS02	805015	BB	1	30	064	2	1615	1	23	19		A	0	11.0	30.8	4	3	3	31 23.6	80 53.2
IS02	805016	BB	1	30	064	2	1615	1	23	19		A	0	11.0	30.8	4	3	3	31 23.6	80 53.2
IS02	805017	BB	1	30	064	2	1745	1	24	19		A	0	11.0	30.8	4	3	3	31 23.6	80 53.2
IS02	805018	BB	1	30	064	2	1745	1	24	19		A	0	11.0	30.8	4	3	3	31 23.6	80 53.2
IS02	805019	BB	1	30	065	1	1839	1	23	19		A	0	10.0	30.8	4	3	3	31 23.6	80 53.2
IS03	800077	DP	1	26	506		1133	3	75	20		I	0	15.0	15.2	20	4	0	30 35.2	81 9.9
IS03	800078	DP	1	26	506		1303	1	40	21		I	1	18.0	15.2	18	5	0	30 37.4	81 10.4
IS03	800079	DP	1	26	506		1403	1	37	23		I	1	18.0	15.2	18	5	0	30 37.0	81 10.8
IS03	800080	DP	1	26	498		1403	1	37	23		I	1	18.0	15.2	18	5	0	30 37.0	81 10.8
IS03	800081	DP	1	26	506		1533	1	32	20		I	0	18.0	15.2	18	8	2	30 36.7	81 10.6
IS03	800082	DP	1	26	498		1533	1	32	20		I	0	18.0	15.2	18	8	2	30 36.7	81 10.6
IS03	800083	DP	1	26	506		1645	1	12	21		I	0	17.0	14.6	16	8	2	30 37.7	81 10.6
IS03	800084	DP	1	26	498		1645	1	12	21		I	0	18.0	14.6	16	8	2	30 37.7	81 10.6
IS03	800085	DP	1	26	506		1733	1	21	21		I	1	17.0	14.6	16	8	2	30 36.9	81 10.3
IS03	800086	DP	1	26	498		1733	1	21	20		I	1	17.0	14.6	16	8	2	30 36.9	81 10.3
IS03	800087	DP	1	26	506		1833	1	27	22		I	1	16.0	13.5	16	8	2	30 36.7	81 10.4
IS03	800088	DP	1	26	498		1833	1	27	22		I	2	16.0	13.5	16	8	2	30 36.7	81 10.4
IS03	800089	DP	1	26	300	7	1927	1	26	21	6.0	I	1	16.0	14.2	16	7	3	30 36.1	81 10.2
IS03	800090	DP	1	26	068	7	1945	1	7	21		I	1	16.0	14.2	16	7	3	30 36.1	81 10.2
IS03	800091	DP	1	26	067	2	2045	1	4	21		I	1	14.0	14.2	16	7	3	30 37.0	81 10.6
IS03	800092	DP	1	26	041	0	2203	4	43	21		I	0	14.0	13.2	11	7	2	30 37.0	81 11.0
IS03	800093	DP	1	26	041	1	2209	4	46	21		I	0	14.0	13.2	11	7	2	30 37.0	81 10.9
IS03	800094	DP	1	26	061	1	2209	4	50	21		I	0	14.0	13.2	11	7	2	30 37.0	81 10.8
IS03	800095	DP	1	26	061	1	2209	4	55	21		I	0	14.0	13.2	11	7	2	30 36.9	81 10.6
IS03	800096	DP	1	26	061	1	2215	4	59	21		I	0	14.0	13.2	11	7	2	30 36.9	81 10.4
IS03	800097	DP	1	26	061	1	2215	4	61	21		I	0	14.0	13.2	11	7	2	30 36.9	81 10.3
IS03	800098	DP	1	26	043	0	2215	4	15	21		I	0	15.0	13.2	11	7	2	30 36.8	81 10.2
IS03	800099	DP	1	26	043	1	2215	4	15	21		I	0	15.0	13.2	11	7	2	30 36.8	81 10.2
IS03	800100	DP	1	26	043	0	2215	4	15	21		I	0	15.0	13.2	11	7	2	30 36.8	81 10.2
IS03	800101	DP	1	27	067	2	015	2	6	20		I	1	14.0	13.9	11	5	2	30 37.1	81 10.7
IS03	800102	DP	1	27	069	1	127	2	8	20		I	1	16.0	13.2	14	5	2	30 37.1	81 10.8
IS03	800103	DP	1	27	069	1	203	2	8	20		I	1	16.0	13.2	14	5	2	30 37.1	81 10.6
IS03	800104	DP	1	27	070	1	309	2	9	20		I	1	17.0	13.2	11	6	2	30 37.2	81 10.3
IS03	800105	DP	1	27	070	1	627	2	8	21		I	0	16.0	11.2	11	6	2	30 37.1	81 10.5
IS03	800106	DP	1	27	070	1	851	2	11	21		I	0	16.0	10.5	11	6	1	30 37.0	81 10.2
IS03	800107	DP	1	27	041	1	1115	3	62	20		I	1	16.0	10.8	27	5	1	30 37.2	81 10.3
IS03	800108	DP	1	27	041	1	1115	3	80	20		I	1	16.0	10.8	27	5	1	30 37.2	81 10.5
IS03	800109	DP	1	27	061	1	1115	3	84	20		I	1	16.0	10.8	27	5	1	30 37.2	81 10.7
IS03	800110	DP	1	27	061	1	1121	3	84	20		I	1	16.0	10.8	27	5	1	30 37.2	81 10.9
IS03	800111	DP	1	27	061	0	1121	3	87	20		I	1	16.0	10.8	27	5	1	30 37.1	81 11.0
IS03	800112	DP	1	27	061	0	1127	3	91	20		I	1	16.0	10.8	27	5	1	30 37.1	81 11.2
IS03	800113	DP	1	27	043	0	1139	3	17	20		I	1	16.0	10.8	27	5	1	30 37.0	81 10.7
IS03	800114	DP	1	27	043	0	1139	3	18	20		I	1	16.0	10.8	27	5	1	30 37.0	81 10.7
IS03	800115	DP	1	27	043	0	1139	3	18	20		I	1	16.0	10.8	27	5	1	30 37.0	81 10.7

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS03	800116	DP	1	27	070	1	1439	1	16	20		I	0	16.0	12.9	36	3	1	30 37.4	81 10.5
IS03	800117	DP	1	27	070	1	1621	1	14	20		I	0	17.0	13.9	36	5	1	30 37.1	81 10.9
IS03	800118	DP	1	27	070	1	1739	1	16	20		I	0	16.0	13.9	36	3	1	30 37.4	81 10.8
IS03	805020	BB	2	6	499		1403	1	17	20		I	0	9.0	22.7	18	8	4	30 37.0	81 10.7
IS03	805021	BB	2	6	499		1403	1	17	20		I	0	9.0	22.7	18	8	4	30 37.0	81 10.7
IS03	805022	BB	2	6	508	1	1403	1	17	20		I	0	9.0	22.7	18	8	4	30 37.0	81 10.7
IS03	805023	BB	2	6	499		1433	1	18	20		F	0	10.0	22.4	25	8	4	30 37.0	81 10.7
IS03	805024	BB	2	6	064	2	1457	1	35	20		C	0	9.0	22.4	27	8	4	30 37.0	81 10.7
IS03	805025	BB	2	6	064	2	1457	1	35	20		C	0	9.0	22.4	27	8	4	30 37.0	81 10.7
IS03	805026	BB	2	6	064	2	1457	1	35	20		C	0	9.0	22.4	27	8	4	30 37.0	81 10.7
IS03	805027	BB	2	6	064	2	1457	1	35	20		C	0	9.0	22.4	27	8	4	30 37.0	81 10.7
IS03	805028	BB	2	6	064	2	1457	1	35	20		C	0	9.0	22.4	27	8	4	30 37.0	81 10.7
IS03	805029	BB	2	6	499		1551	1	16	20		B	0	11.0	22.4	32	9	4	30 37.0	81 10.7
MS01	800199	DP	2	7	506		2333	4	5	28		B	0	9.0	26.1	2	6	2	31 44.8	80 14.1
MS01	800200	DP	2	8	506		015	2	74	26		B	0	8.0	26.1	2	6	2	31 44.3	80 14.5
MS01	800201	DP	2	8	506		209	2	95	26		C	0	11.0	26.1	2	6	2	31 45.5	80 14.3
MS01	800202	DP	2	8	506		433	2	74	24		C	0	11.0	26.8	2	5	2	31 45.5	80 13.8
MS01	800203	DP	2	8	506		639	2	73	28		B	0	11.0	27.1	2	6	2	31 44.6	80 13.3
MS01	800204	DP	2	8	506		845	2	8	30		C	0	11.0	27.1	2	6	2	31 43.7	80 13.7
MS01	800205	DP	2	8	506		951	2	6	28		C	0	10.0	26.4	2	6	2	31 44.4	80 14.1
MS01	800206	DP	2	8	506		1033	2	84	25		B	0	10.0	27.4	4	9	2	31 45.6	80 13.9
MS01	800207	DP	2	8	506		1309	1	20	31		C	0	11.0	27.4	4	9	2	31 44.3	80 13.6
MS01	800208	DP	2	8	506		1403	1	28	33		D	0	12.0	27.4	4	9	2	31 44.1	80 13.1
MS01	800209	DP	2	8	300	7	1533	1	58	32		G	0	12.0	29.5	4	11	2	31 43.7	80 14.2
MS01	800210	DP	2	8	068	7	1557	1	25	32	12.0	G	0	12.0	29.5	4	11	2	31 43.7	80 14.2
MS01	800211	DP	2	8	506		1845	1	35	34		G	0	11.0	27.8	4	10	2	31 44.1	80 12.8
MS01	800212	DP	2	8	498		1845	1	35	34		G	0	11.0	27.8	4	10	2	31 44.1	80 12.8
MS01	800213	DP	2	8	506		1957	1	20	32		D	0	14.0	27.1	4	9	2	31 44.7	80 13.8
MS01	800214	DP	2	8	498		1957	1	20	32		D	0	14.0	27.1	4	9	2	31 44.7	80 13.8
MS01	800215	DP	2	8	506		2133	1	21	26		I	0	10.0	27.1	4	10	2	31 44.7	80 13.8
MS01	800216	DP	2	8	498		2133	1	21	26		I	0	10.0	26.4	4	10	2	31 44.7	80 13.8
MS01	800217	DP	2	8	041	1	2239	4	116	30		D	0	13.0	26.4	4	9	3	31 44.0	80 13.4
MS01	800218	DP	2	8	041	1	2245	4	104	30		D	0	13.0	26.4	4	9	3	31 44.0	80 13.6
MS01	800219	DP	2	8	061	1	2245	4	88	30		D	0	13.0	26.4	4	9	3	31 43.9	80 13.8
MS01	800220	DP	2	8	061	1	2251	4	74	30		D	0	13.0	26.4	4	9	3	31 43.9	80 14.1
MS01	800221	DP	2	8	061	1	2251	4	63	30		D	0	13.0	26.4	4	9	3	31 43.9	80 14.3
MS01	800222	DP	2	8	061	0	2251	4	54	30		D	0	13.0	26.4	4	9	3	31 43.9	80 14.4
MS01	800223	DP	2	8	043	0	2303	4	15	30		D	0	13.0	26.4	4	9	3	31 43.9	80 13.6
MS01	800224	DP	2	8	043	0	2303	4	15	30		D	0	13.0	30.3	4	9	3	31 43.9	80 13.6
MS01	800225	DP	2	8	043	0	2303	4	15	30		D	0	13.0	30.3	4	9	3	31 43.9	80 13.6
MS01	800226	DP	2	9	069	2	145	2	10	31		D	0	14.0	25.4	9	9	2	31 44.2	80 13.2
MS01	800227	DP	2	9	069	1	227	2	10	31		D	0	14.0	25.4	9	9	2	31 44.0	80 13.1
MS01	800228	DP	2	9	070	1	345	2	10	31		F	0	14.0	24.7	9	9	2	31 43.8	80 13.1
MS01	800229	DP	2	9	070	1	457	2	10	31		H	0	16.0	22.7	14	9	2	31 44.4	80 13.6
MS01	800230	DP	2	9	070	1	621	2	18	30		H	0	17.0	22.7	14	10	2	31 44.6	80 13.5

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS01	800231	DP	2	9	067	2	821	2	4	32		H	0	17.0	21.3	14	8	2	31 44.1	80 13.3
MS01	800232	DP	2	9	067	2	839	2	3	32		H	0	17.0	21.3	14	9	2	31 44.0	80 13.6
MS01	800233	DP	2	9	041	1	1033	3	97	28		H	0	18.0	21.0	14	9	2	31 44.3	80 12.9
MS01	800234	DP	2	9	041	1	1039	3	105	28		H	0	18.0	21.0	14	9	2	31 44.3	80 13.0
MS01	800235	DP	2	9	061	1	1039	3	111	28		H	0	18.0	21.0	14	9	2	31 44.3	80 13.2
MS01	800236	DP	2	9	061	1	1039	3	118	28		H	0	18.0	21.0	14	9	2	31 44.3	80 13.4
MS01	800237	DP	2	9	061	1	1045	3	127	28		H	0	18.0	21.0	14	9	2	31 44.2	80 13.6
MS01	800238	DP	2	9	061	0	1045	3	139	28		H	0	18.0	21.0	14	9	2	31 44.2	80 13.7
MS01	800239	DP	2	9	043	1	1103	3	52	28		H	0	18.0	21.0	14	9	2	31 44.0	80 13.3
MS01	800240	DP	2	9	043	1	1103	3	52	28		H	0	18.0	21.0	14	9	2	31 44.0	80 13.3
MS01	800241	DP	2	9	043	1	1103	3	52	28		H	0	18.0	21.0	14	9	2	31 44.0	80 13.3
MS01	800242	DP	2	9	070	1	1433	1	16	31		I	0	18.0	20.7	14	5	2	31 43.7	80 13.1
MS01	800243	DP	2	9	070	1	1609	1	16	31		G	0	19.0	20.0	18	4	2	31 43.7	80 13.6
MS01	800244	DP	2	9	070	1	1857	1	11	28		D	0	20.0	16.6	29	4	2	31 44.6	80 13.3
MS01	800245	DP	2	9	506		2027	1	14	32		C	0	18.0				2	31 44.2	80 12.8
MS01	800246	DP	2	9	498		2027	1	14	32		C	0	18.0				2	31 44.2	80 12.8
MS01	800247	DP	2	9	506		2051	1	6	34		D	0	20.0				1	31 44.1	80 13.1
MS01	800248	DP	2	9	498		2051	1	6	34		D	0	20.0				1	31 44.1	80 13.1
MS01	800249	DP	2	9	506		2115	1	7	32		D	0	20.0				1	31 44.1	80 13.8
MS01	800250	DP	2	9	498		2115	1	7	32		D	0	20.0				1	31 44.1	80 13.8
MS01	805039	BB	2	15	499		1351	1	17	32		E	0	16.0	26.1	4	5	3	31 44.1	80 13.1
MS01	805040	BB	2	15	499		1351	1	17	32		E	0	16.0	26.1	4	5	3	31 44.1	80 13.1
MS01	805041	BB	2	15	508	1	1351	1	17	32		E	0	16.0	26.1	4	5	3	31 44.1	80 13.1
MS01	805042	BB	2	15	499		1421	1	17	32		E	0	17.0	26.1	4	5	3	31 44.1	80 13.1
MS01	805043	BB	2	15	064	3	1451	1	22	32		E	0	16.0	26.1	4	5	3	31 44.1	80 13.1
MS01	805044	BB	2	15	064	3	1451	1	22	32		E	0	16.0	26.1	4	5	3	31 44.1	80 13.1
MS01	805045	BB	2	15	064	3	1527	1	15	32		F	0	17.0	26.1	4	5	4	31 44.1	80 13.1
MS01	805046	BB	2	15	064	3	1527	1	15	32		F	0	17.0	26.1	4	5	4	31 44.1	80 13.1
MS01	805047	BB	2	15	064	3	1557	1	16	32		F	0	17.0	26.1	4	5	4	31 44.1	80 13.1
MS01	805048	BB	2	15	014	1	1557	1	14	32		F	0	17.0	26.1	4	5	4	31 44.1	80 13.1
MS01	805049	BB	2	15	499		1715	1	17	32		G	0	18.0	25.4	4	5	3	31 44.1	80 13.1
MS01	805050	BB	2	15	499		1715	1	17	32		G	0	18.0	25.4	4	5	3	31 44.1	80 13.1
MS01	805051	BB	2	21	499	7	1627	1	18	33		I	0	18.0	24.0	22	6	4	31 44.1	80 13.1
MS01	805052	BB	2	21	499		1627	1	18	33		I	0	18.0	24.0	22	6	4	31 44.1	80 13.1
MS01	805053	BB	2	21	499		1651	1	22	33		I	0	18.0	24.0	22	6	4	31 44.1	80 13.1
MS01	805054	BB	2	21	064	2	1651	1	22	33		I	0	18.0	24.0	22	6	4	31 44.1	80 13.1
MS01	805055	BB	2	21	064	2	1651	1	22	33		I	0	18.0	24.0	22	6	4	31 44.1	80 13.1
MS01	805056	BB	2	21	064	2	1727	1	22	33		I	0	18.0	23.4	22	6	4	31 44.1	80 13.1
MS01	805057	BB	2	21	064	2	1803	1	21	33		I	0	18.0	22.7	22	5	4	31 44.1	80 13.1
MS01	805058	BB	2	21	064	3	1803	1	21	33		I	0	18.0	22.7	22	5	4	31 44.1	80 13.1
MS02	800159	DP	1	29	506		2245	2	243	29		A	0	21.0	20.3	27	2	2	31 40.4	80 20.0
MS02	800160	DP	1	30	506		333	2	58	25		A	0	17.0	22.0	32	8	2	31 41.6	80 21.3
MS02	800161	DP	1	30	498		333	2	58	25		A	0	17.0	22.0	32	8	2	31 41.6	80 21.3
MS02	800162	DP	1	30	506		533	2	23	27		A	0	16.0	22.0	32	10	2	31 41.4	80 20.9
MS02	800163	DP	1	30	498		533	2	23	27		A	0	16.0	22.0	32	10	2	31 41.4	80 20.9

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS02	800164	DP	1	30	300	7	733	2	28	30	14.0	A	0	14.0	22.0	32	8	2	31 41.3	80 21.0
MS02	800165	DP	1	30	068	7	745	2	7	30		A	0	14.0	22.0	32	8	2	31 41.3	80 21.0
MS02	800166	DP	1	30	506		939	2	29	27		A	0	12.0				2	31 41.5	80 20.9
MS02	800167	DP	1	30	498		939	2	29	27		A	0	12.0				2	31 41.5	80 20.9
MS02	800168	DP	1	30	506		1045	2	33	29		A	0	11.0				2	31 41.6	80 20.6
MS02	800169	DP	1	30	498		1045	2	33	29		A	0	11.0				2	31 41.6	80 20.6
MS02	800170	DP	1	30	067	1	1251	1	4	28		A	0	12.0	22.0	32	8	2	31 41.2	80 20.8
MS02	800171	DP	1	30	067	2	1357	1	3	28		A	0	16.0	23.0	32	8	2	31 41.1	80 21.1
MS02	800172	DP	1	30	067	2	1439	1	3	28		A	0	16.0	23.7	32	7	2	31 41.2	80 21.0
MS02	800173	DP	1	30	070	1	1527	1	11	28		B	0	17.0	22.0	32	7	2	31 40.9	80 20.9
MS02	800174	DP	1	30	070	1	1715	1	12	27		C	0	15.0	23.4	32	6	2	31 41.6	80 20.9
MS02	800175	DP	1	30	070	1	2003	1	15	27		B	0	14.0	22.7	32	6	3	31 41.6	80 20.7
MS02	800176	DP	1	30	041	0	2157	4	65	29		B	0	14.0	22.0	7	5	2	31 41.5	80 20.9
MS02	800177	DP	1	30	041	0	2157	4	74	29		B	0	14.0	22.0	7	5	2	31 41.4	80 20.9
MS02	800178	DP	1	30	061	1	2157	4	90	29		B	0	14.0	22.0	7	5	2	31 41.3	80 20.9
MS02	800179	DP	1	30	061	1	2203	4	83	29		B	0	14.0	22.0	7	5	2	31 41.1	80 20.9
MS02	800180	DP	1	30	061	0	2203	4	100	29		B	0	14.0	22.0	7	5	2	31 41.2	80 20.8
MS02	800181	DP	1	30	061	1	2203	4	90	29		B	0	14.0	22.0	7	5	2	31 41.3	80 20.9
MS02	800182	DP	1	30	043	1	2209	4	30	27		B	0	14.0	22.0	7	5	2	31 41.5	80 21.0
MS02	800183	DP	1	30	043	1	2209	4	30	27		B	0	14.0	22.0	7	5	2	31 41.5	80 21.0
MS02	800184	DP	1	30	043	0	2209	4	30	27		B	0	14.0	22.0	7	5	2	31 41.5	80 21.0
MS02	800185	DP	1	31	070	1	127	2	13	27		B	0	17.0	21.7	7	5	2	31 41.4	80 20.9
MS02	800186	DP	1	31	070	1	321	2	14	27		B	0	17.0	20.0	7	5	2	31 41.4	80 21.0
MS02	800187	DP	1	31	070	1	533	2	14	27		E	0	17.0	17.9	14	8	2	31 41.7	80 20.8
MS02	800188	DP	1	31	069	1	733	2	17	28		I	0	18.0	16.6	14	8	2	31 41.3	80 20.7
MS02	800189	DP	1	31	069	1	815	2	18	27		I	0	18.0	15.6	14	8	2	31 41.4	80 21.0
MS02	800190	DP	1	31	041	1	1109	3	129	28		I	0	16.0	14.9	22	10	2	31 40.8	80 20.7
MS02	800191	DP	1	31	041	1	1109	3	118	28		I	0	16.0	14.9	22	10	2	31 40.9	80 20.7
MS02	800192	DP	1	31	061	1	1109	3	59	28		I	0	16.0	14.9	22	10	2	31 41.1	80 20.7
MS02	800193	DP	1	31	061	1	1115	3	71	28		I	0	16.0	14.9	22	10	2	31 41.3	80 20.6
MS02	800194	DP	1	31	061	1	1115	3	94	28		I	0	16.0	14.9	22	10	2	31 41.4	80 20.6
MS02	800195	DP	1	31	061	0	1121	3	76	28		I	0	16.0	14.9	22	10	2	31 41.6	80 20.6
MS02	800196	DP	1	31	043	0	1133	3	15	27		I	0	16.0	14.9	22	11	2	31 41.4	80 20.3
MS02	800197	DP	1	31	043	0	1133	3	15	27		I	0	16.0	14.9	22	11	2	31 41.4	80 20.3
MS02	800198	DP	1	31	043	0	1133	3	15	27		I	0	16.0	14.9	22	11	2	31 41.4	80 20.3
MS02	805030	BB	2	14	499		1809	1	20	28		H	0	13.0	30.8	4	6	4	31 41.1	80 20.8
MS02	805031	BB	2	14	499		1809	1	20	28		H	0	13.0	30.8	4	6	4	31 41.1	80 20.8
MS02	805032	BB	2	14	508	2	1809	1	20	28		H	0	13.0	30.8	4	6	4	31 41.1	80 20.8
MS02	805033	BB	2	14	499		1845	1	20	28		H	0	14.0	30.5	4	6	4	31 41.1	80 20.8
MS02	805034	BB	2	14	064	2	1927	1	18	28		G	0	14.0	29.8	4	8	4	31 41.1	80 20.8
MS02	805035	BB	2	14	064	2	2027	1	19	28		G	0	14.0	29.5	4	8	4	31 41.1	80 20.8
MS02	805036	BB	2	14	064	2	2027	1	19	28		E	0	14.0	29.5	36	8	4	31 41.1	80 20.8
MS02	805037	BB	2	14	064	2	2115	1	21	28		E	0	14.0	29.5	4	9	4	31 41.1	80 20.8
MS02	805038	BB	2	15	014	1	403	2	360	28		E	0		28.8	7	6	4	31 41.1	80 20.8
MS03	800119	DP	1	28	506		139	2	35	32		I	0	14.0	15.2	36	9	2	30 54.2	80 37.1

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS03	800120	DP	1	28	506		351	2	54	33		I	0	14.0	16.6	36	9	2	30 54.4	80 37.5
MS03	800121	DP	1	28	506		533	2	15	31		I	0	14.0				3	30 54.2	80 37.9
MS03	800122	DP	1	28	506		627	2	56	31		I	0	14.0	16.6	36	8	3	30 54.0	80 37.8
MS03	800123	DP	1	28	506		803	2	39	31		I	0	12.0	16.6	36	8	3	30 53.6	80 37.8
MS03	800124	DP	1	28	506		909	2	31	36		I	0	13.0	16.6	36	7	2	30 53.2	80 37.9
MS03	800251	DP	2	11	506		2215	1	8	32		I	0	10.0	17.3	36	4	2	30 55.8	80 35.0
MS03	800252	DP	2	11	506		2233	1	97	34		I	0	12.0	17.3	36	4	2	30 55.4	80 35.2
MS03	800253	DP	2	12	506		045	2	36	33		I	0	13.0	17.3	36	4	2	30 55.1	80 35.7
MS03	800254	DP	2	12	506		157	2	39	31		I	0	11.0	17.9	36	3	2	30 55.5	80 35.6
MS03	800255	DP	2	12	506		309	2	46	33		I	0	12.0	17.9	36	3	2	30 54.5	80 36.3
MS03	800256	DP	2	12	506		427	2	55	34		I	0	12.0	17.9	36	3	2	30 54.4	80 36.5
MS03	800257	DP	2	12	506		557	2	37	36		G	0	11.0	7.8	36	3	2	30 54.7	80 36.1
MS03	800258	DP	2	12	506		709	2	34	34		G	0	11.0	8.1	32	4	2	30 55.0	80 35.8
MS03	800259	DP	2	12	506		809	2	29	34		G	0	11.0	17.3	32	4	2	30 55.7	80 35.4
MS03	800260	DP	2	12	506		915	2	45	36		G	0	11.0	17.3	32	4	2	30 54.3	80 36.6
MS03	800261	DP	2	12	506		1021	2	4	36		G	0	11.0	17.3	32	4	2	30 53.9	80 34.6
MS03	800262	DP	2	12	506		1039	2	9	40		G	0	12.0	17.9	32	4	2	30 53.8	80 34.8
MS03	800263	DP	2	12	506		1139	3	8	35		G	0	12.0	17.9	32	4	2	30 53.8	80 34.9
MS03	800264	DP	2	12	506		1303	1	40	34		H	0	14.0	19.0	32	5	2	30 56.2	80 36.2
MS03	800265	DP	2	12	506		1415	1	58	32		H	0	10.0	19.6	32	5	2	30 56.0	80 36.8
MS03	800399	DP	3	11	506		1703	1	258	36		E	0	22.0	16.3		1	2	30 54.1	80 36.5
MS03	800400	DP	3	11	300	7	2151	1	22	37	10.0	F	0	22.0	15.9	18	1	2	30 53.5	80 36.0
MS03	800401	DP	3	11	068	7	2203	1	7	37		F	0	22.0	15.9	18	1	2	30 53.5	80 36.0
MS03	800402	DP	3	12	498		003	2	64	36		D	0	18.0	16.3	18	3	2	30 53.2	80 36.3
MS03	800403	DP	3	12	069	1	127	2	9	36		D	0	18.0	16.3	18	3	2	30 54.6	80 36.0
MS03	800404	DP	3	12	069	1	209	2	10	35		G	0	18.0	16.3	18	3	2	30 54.0	80 36.3
MS03	800405	DP	3	12	070	1	309	2	16	35		G	0	18.0	16.6	18	3	2	30 54.7	80 36.0
MS03	800406	DP	3	12	070	1	445	2	18	36		I	0	18.0	16.6	18	3	2	30 54.7	80 36.1
MS03	800407	DP	3	12	070	1	615	2	15	36		I	0	19.0	16.6	22	10	2	30 54.8	80 36.0
MS03	800408	DP	3	12	067	2	821	2	3	36		I	0	18.0	15.9	34	5	2	30 53.4	80 36.4
MS03	800409	DP	3	12	067	2	839	2	2	37		I	0	17.0	15.9	34	6	2	30 53.4	80 36.4
MS03	800410	DP	3	12	041	1	1021	3	68	36		I	0	16.0	15.6	34	8	2	30 53.2	80 36.3
MS03	800411	DP	3	12	041	1	1027	3	76	36		I	0	16.0	15.6	34	8	2	30 53.4	80 36.3
MS03	800412	DP	3	12	061	1	1027	3	80	36		I	0	16.0	15.6	34	8	2	30 53.6	80 36.2
MS03	800413	DP	3	12	061	0	1027	3	87	38		I	0	16.0	15.6	34	8	2	30 53.7	80 36.2
MS03	800414	DP	3	12	061	0	1027	3	96	35		I	0	16.0	15.6	34	8	2	30 53.8	80 36.2
MS03	800415	DP	3	12	061	1	1033	3	103	35		I	0	16.0	15.6	34	8	2	30 53.9	80 36.3
MS03	800416	DP	3	12	043	1	1033	3	35	35		I	0	16.0	15.6	34	8	2	30 54.0	80 36.2
MS03	800417	DP	3	12	043	1	1033	3	35	35		I	0	16.0	15.6	34	8	2	30 54.0	80 36.2
MS03	800418	DP	3	12	043	1	1033	3	35	35		I	0	16.0	15.6	34	8	2	30 54.0	80 36.2
MS03	800419	DP	3	12	070	1	1527	1	17	34		I	0	19.0	12.9	4	5	2	30 54.1	80 36.6
MS03	800420	DP	3	12	070	1	1815	1	18	35		I	0	22.0	12.9	14	5	2	30 54.1	80 36.5
MS03	800421	DP	3	12	070	1	1921	1	20	36		I	0	20.0	12.5	14	10	3	30 53.8	80 36.5
MS03	800422	DP	3	12	041	1	2215	4	69	36		I	0	20.0	9.1	16	13	3	30 54.6	80 36.1
MS03	800423	DP	3	12	041	1	2221	4	73	36		I	0	20.0	9.1	16	13	3	30 54.5	80 36.1

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS03	800424	DP	3	12	061	1	2221	4	79	36		I	0	20.0	9.1	16	13	3	30 54.4	80 36.2
MS03	800425	DP	3	12	061	0	2221	4	83	36		I	0	20.0	9.1	16	13	3	30 54.3	80 36.2
MS03	800426	DP	3	12	061	1	2221	4	86	36		I	0	20.0	9.1	16	13	3	30 54.2	80 36.3
MS03	800427	DP	3	12	061	1	2221	4	92	36		I	0	20.0	9.1	16	13	3	30 54.1	80 36.3
MS03	800428	DP	3	12	043	1	2227	4	44	36		I	0	20.0	9.1	16	13	3	30 54.1	80 36.3
MS03	800429	DP	3	12	043	1	2227	4	44	36		I	0	20.0	9.1	16	13	3	30 54.1	80 36.3
MS03	800430	DP	3	12	043	1	2227	4	44	36		I	0	20.0	9.1	16	13	3	30 54.1	80 36.3
MS03	805059	BB	3	26	499		1339	1	14	34		C	0	18.0	23.0	36	3	2	30 54.3	80 36.1
MS03	805060	BB	3	26	499		1339	1	14	34		C	0	18.0	23.0	36	3	2	30 54.3	80 36.1
MS03	805061	BB	3	26	499	7	1421	1	17	34		C	0	19.0	23.0	36	3	2	30 54.3	80 36.1
MS03	805062	BB	3	26	064	2	1439	1	19	34		C	0	19.0	23.0	36	3	2	30 54.3	80 36.1
MS03	805063	BB	3	26	064	2	1439	1	19	34		C	0	19.0	23.0	36	3	2	30 54.3	80 36.1
MS03	805064	BB	3	26	064	2	1439	1	19	34		C	0	19.0	23.0	36	3	2	30 54.3	80 36.1
MS03	805065	BB	3	26	064	2	1503	1	17	34		D	0	19.0	23.7	36	3	2	30 54.3	80 36.1
MS03	805066	BB	3	26	064	2	1809	1	15	34		G	0	20.0	23.7	36	3	2	30 54.3	80 36.1
MS03	805067	BB	3	26	508	1	1809	1	15	34		G	0	20.0	23.7	36	3	2	30 54.3	80 36.1
OS01	800266	DP	2	20	506		1227	1	59	62		G	0	16.0	14.6	32	4	3	31 34.7	79 43.3
OS01	800267	DP	2	20	506		1409	1	54	57		G	0	17.0	14.6	32	4	4	31 34.9	79 44.0
OS01	800268	DP	2	20	506		1833	1	15	78		G	0	21.0	14.6	27	4	4	31 34.0	79 39.9
OS01	800269	DP	2	20	506		1933	1	57	76		G	0	21.0	14.6	27	4	4	31 34.3	79 40.7
OS01	800270	DP	2	20	506		2109	1	71	74		D	0	21.0	14.9	20	3	4	31 33.9	79 41.3
OS01	800271	DP	2	20	506		2327	4	67	65		D	0	19.0	14.6	29	6	4	31 34.5	79 42.8
OS01	800272	DP	2	21	506		303	2	51	71		J	0	21.0	15.2	18	6	3	31 21.8	79 47.1
OS01	800276	DP	2	21	506		2315	1	6	70		F	0	21.0	17.9	18	5	3	31 32.9	79 43.0
OS01	800277	DP	2	25	506		545	2	14	68		I	0	19.0	15.6	22	10	3	31 32.8	79 43.6
OS01	800278	DP	2	25	506		651	2	21	61		H	0	19.0	15.2	22	13	4	31 33.4	79 43.6
OS01	800279	DP	2	25	506		827	2	22	76		H	0	19.0	13.9	22	13	4	31 32.6	79 42.6
OS01	800280	DP	2	25	506		1021	2	27	61		H	0	19.0	14.2	22	13	4	31 32.5	79 44.2
OS01	800281	DP	2	25	506		1157	1	45	59		I	0	21.0	13.9	22	11	4	31 32.4	79 45.0
OS01	800282	DP	2	25	506		2045	1	44	67		I	0	20.0				2	31 31.2	79 44.7
OS01	800283	DP	3	7	506		045	2	14	67		D	0	19.0	23.4	9	3	2	31 31.6	79 44.5
OS01	800284	DP	3	7	506		157	2	109	70		C	0	21.0	23.4	7	3	2	31 30.8	79 44.3
OS01	800285	DP	3	7	506		433	2	50	65		C	0	22.0	23.4	18	3	2	31 31.4	79 44.6
OS01	800286	DP	3	7	506		615	2	34	63		G	0	22.0	23.4	18	6	2	31 31.5	79 44.7
OS01	800287	DP	3	7	300	7	733	2	38	61	11.0	G	0	22.0	23.4	16	3	2	31 31.0	79 45.4
OS01	800288	DP	3	7	068	7	803	2	14	61		G	0	22.0	23.4	16	3	2	31 31.0	79 45.4
OS01	800289	DP	3	7	041	1	1021	3	96	60		E	0	21.0	23.7	16	3	2	31 32.1	79 44.2
OS01	800290	DP	3	7	041	2	1027	3	106	60		E	0	21.0	23.7	16	3	2	31 32.0	79 44.3
OS01	800291	DP	3	7	061	1	1027	3	119	60		E	0	21.0	23.7	16	3	2	31 31.9	79 44.5
OS01	800292	DP	3	7	061	1	1027	3	147	60		E	0	21.0	23.7	16	3	2	31 31.7	79 44.6
OS01	800293	DP	3	7	061	0	1033	3	136	60		E	0	21.0	23.7	16	3	2	31 31.6	79 44.7
OS01	800294	DP	3	7	061	0	1033	3	128	60		E	0	21.0	23.7	16	3	2	31 31.5	79 44.8
OS01	800295	DP	3	7	043	0	1033	3	63	60		E	0	21.0	23.7	16	3	2	31 31.3	79 44.8
OS01	800296	DP	3	7	043	0	1033	3	63	60		E	0	21.0	23.7	16	3	2	31 31.3	79 44.8
OS01	800297	DP	3	7	043	1	1033	3	63	60		E	0	21.0	23.7	16	3	2	31 31.3	79 44.8

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
OS01	800298	DP	3	7	506		1521	1	62	68		B	0	27.0	25.4		1	2	31 31.3	79 44.4
OS01	800299	DP	3	7	498		1521	1	62	68		B	0	27.0	25.4		1	2	31 31.3	79 44.4
OS01	800300	DP	3	7	070	1	1733	1	12	72		C	0	27.0	25.1	0	0	2	31 32.6	79 44.2
OS01	800301	DP	3	7	070	1	1839	1	13	64		C	0	25.0	23.7	18	4	2	31 32.4	79 44.1
OS01	800302	DP	3	7	070	1	2003	1	13	68		G	0	25.0	22.7	14	5	2	31 32.7	79 43.7
OS01	800303	DP	3	7	041	0	2227	4	50	69		I	0	22.0	22.0	14	8	2	31 32.1	79 43.9
OS01	800304	DP	3	7	041	1	2227	4	55	69		I	0	22.0	22.0	14	8	2	31 32.0	79 44.0
OS01	800305	DP	3	7	061	0	2227	4	68	69		I	0	22.0	22.0	14	8	2	31 32.0	79 44.2
OS01	800306	DP	3	7	061	0	2227	4	111	69		I	0	22.0	22.0	14	8	2	31 31.9	79 44.3
OS01	800307	DP	3	7	061	1	2233	4	77	69		I	0	22.0	22.0	14	8	2	31 31.8	79 44.4
OS01	800308	DP	3	7	061	0	2233	4	97	69		I	0	22.0	22.0	14	8	2	31 31.7	79 44.5
OS01	800309	DP	3	7	043	1	2239	4	19	69		I	0	22.0	22.0	14	8	2	31 31.9	79 44.3
OS01	800310	DP	3	7	043	0	2239	4	19	69		I	0	22.0	22.0	14	8	2	31 31.9	79 44.3
OS01	800311	DP	3	7	043	0	2239	4	19	69		I	0	22.0	22.0	14	8	2	31 31.9	79 44.3
OS01	800312	DP	3	8	070	1	127	2	10	60		J	0	22.0	21.0	18	10	3	31 31.9	79 44.8
OS01	800313	DP	3	8	070	1	245	2	14	64		J	0	22.0	14.9	18	13	3	31 33.0	79 43.9
OS01	800314	DP	3	8	070	1	557	2	11	64		I	0	22.0	20.3	18	13	3	31 32.4	79 44.6
OS01	800315	DP	3	8	069	1	721	2	15	65		I	0	22.0	20.3	18	13	4	31 32.6	79 43.8
OS01	800316	DP	3	8	069	1	821	2	13	64		I	0	22.0	20.0	18	10	4	31 32.4	79 44.0
OS01	800317	DP	3	8	067	2	921	2	2	61		I	1	20.0	20.0	18	10	4	31 32.2	79 44.1
OS01	800318	DP	3	8	067	2	1003	2	3	66		I	1	20.0	19.3	22	7	4	31 32.6	79 43.8
OS01	800319	DP	3	8	058	2	1115	2	0	60		I	0	20.0	18.6	22	11	3	31 31.9	79 44.5
OS01	800320	DP	3	8	058	2	1133	3	0	60		I	0	20.0	18.6	22	11	3	31 31.9	79 44.4
OS01	800321	DP	3	8	058	2	1151	1	0	60		I	0	20.0	18.6	22	11	3	31 32.0	79 44.3
OS01	800322	DP	3	8	058	2	1209	1	0	62		I	0	20.0	18.6	22	11	3	31 32.1	79 44.1
OS01	800323	DP	3	8	058	2	1221	1	0	62		I	0	21.0	19.0	22	11	3	31 32.2	79 44.0
OS01	800324	DP	3	8	058	2	1233	1	0	62		I	0	21.0	19.0	22	11	3	31 32.4	79 43.9
OS02	800273	DP	2	21	506		833	2	0	67		U	0	20.0	15.2	16	11	4	31 5.0	79 55.1
OS02	800274	DP	2	21	506		845	2	2	67		G	0	19.0				4	31 4.7	79 55.2
OS02	800275	DP	2	21	506		933	2	5	77		G	0	18.0				4	31 4.7	79 50.2
OS02	800325	DP	3	8	506		2121	1	103	59		I	1	22.0	16.6	18	8	4	31 6.7	79 55.1
OS02	800326	DP	3	9	506		003	4	63	48		I	0	22.0	16.6	22	11	4	31 7.1	79 55.2
OS02	800327	DP	3	9	506		209	2	19	55		I	0	22.0	16.6	22	11	4	31 7.2	79 55.2
OS02	800328	DP	3	9	300	7	327	2	38	53	13.0	I	0	22.0	16.3	22	11	4	31 7.4	79 55.4
OS02	800329	DP	3	9	068	7	415	2	8	53		I	0	22.0	16.3	22	13	4	31 7.7	79 55.4
OS02	800330	DP	3	9	069	1	627	2	13	58		I	0	21.0	15.2	22	8	4	31 7.5	79 54.5
OS02	800331	DP	3	9	069		733	2	12	59		I	0	20.0	14.6	22	8	4	31 7.2	79 54.9
OS02	800332	DP	3	9	067	0	821	2	2	58		I	0	20.0	14.2	22	10	3	31 7.0	79 55.0
OS02	800333	DP	3	9	067	3	845	2		50		I	0	20.0	14.2	22	10	3	31 7.3	79 55.2
OS02	800334	DP	3	9	067	2	921	2	3	56		I	0	21.0	14.2	22	10	3	31 7.9	79 54.6
OS02	800335	DP	3	9	041	0	1033	3	68	53		I	0	20.0	15.2	22	6	4	31 8.8	79 54.9
OS02	800336	DP	3	9	041	1	1039	3	73	53		I	0	20.0	15.2	22	6	4	31 8.7	79 54.8
OS02	800337	DP	3	9	061	3	1039	3		53		I	0	20.0	15.2	22	6	4	31 8.5	79 54.8
OS02	800338	DP	3	9	061	1	1039	3	84	53		I	0	20.0	15.2	22	6	4	31 8.4	79 54.8
OS02	800339	DP	3	9	061	0	1045	3	92	53		I	0	20.0	15.2	22	6	4	31 8.4	79 54.8

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
OS02	800340	DP	3	9	061	0	1045	3	101	53		I	0	20.0	15.2	22	6	4	31 8.3	79 54.9
OS02	800341	DP	3	9	043	0	1057	3	26	53		I	0	20.0	15.2	22	6	4	31 8.1	79 55.0
OS02	800342	DP	3	9	043	0	1057	3	26	53		I	0	20.0	15.2	22	6	4	31 8.1	79 55.0
OS02	800343	DP	3	9	043	1	1057	3	26	53		I	0	20.0	15.2	22	6	4	31 8.1	79 55.0
OS02	800344	DP	3	9	067	2	1403	1	4	57		I	2	20.0	16.6	27	8	3	31 7.9	79 54.9
OS02	800345	DP	3	9	067	2	1433	1	3	48		I	1	20.0	16.6	27	8	3	31 8.8	79 54.8
OS02	800346	DP	3	9	058	2	1633	1	0	52		I	0	20.0	15.9	27	4	2	31 7.7	79 54.9
OS02	800347	DP	3	9	058	2	1645	1	0	52		I	0	22.0	15.9	27	4	2	31 8.3	79 54.6
OS02	800348	DP	3	9	058	2	1703	1	0	52		I	0	22.0	15.2	27	3	2	31 8.9	79 54.2
OS02	800349	DP	3	9	058	2	1745	1	0	55		I	0	20.0	15.2	22	10	2	31 7.7	79 55.0
OS02	800350	DP	3	9	058	2	1757	1	0	58		I	1	21.0	14.9	22	13	2	31 8.2	79 54.4
OS02	800351	DP	3	9	506		1903	1	4	59		I	2	21.0	14.6	22	10	3	31 7.8	79 54.8
OS02	800352	DP	3	9	506		2015	1	24	50		I	0	20.0	13.9	22	9	3	31 7.1	79 55.5
OS02	800353	DP	3	9	506		2115	1	18	50		I	0	20.0	13.5	22	11	3	31 7.9	79 55.1
OS02	800354	DP	3	9	041	1	2215	4	137	50		I	0	20.0	13.9	22	14	3	31 7.1	79 55.2
OS02	800355	DP	3	9	041	1	2221	4	117	50		I	0	20.0	13.9	22	14	3	31 7.2	79 55.1
OS02	800356	DP	3	9	061	0	2221	4	92	54		I	0	20.0	13.9	22	14	3	31 7.4	79 55.0
OS02	800357	DP	3	9	061	0	2221	4	63	54		I	0	20.0	13.9	22	14	3	31 7.6	79 54.9
OS02	800358	DP	3	9	061	0	2227	4	163	54		I	0	20.0	13.9	22	14	3	31 7.8	79 54.8
OS02	800359	DP	3	9	061	3	2227	4		54		I	0	20.0	13.9	22	14	3	31 7.9	79 54.8
OS02	800360	DP	3	9	043	0	2239	4	25	54		I	0	20.0	13.9	22	14	3	31 8.0	79 55.2
OS02	800361	DP	3	9	043	1	2239	4	25	54		I	0	20.0	13.9	22	14	3	31 8.0	79 55.2
OS02	800362	DP	3	9	043	1	2239	4	25	54		I	0	20.0	13.9	22	14	3	31 8.0	79 55.2
OS03	800363	DP	3	10	506		1233	1	74	53		G	0	22.0	13.2	22	5	2	30 25.0	80 12.6
OS03	800364	DP	3	10	506		1521	1	74	55		I	2	21.0	13.9	22	8	2	30 25.0	80 12.8
OS03	800365	DP	3	10	300	7	1739	1	34	59	12.0	I	2	19.0	13.2	36	5	3	30 25.4	80 13.2
OS03	800366	DP	3	10	068	7	1803	1	8	59		I	2	19.0	13.2	36	5	3	30 25.4	80 13.2
OS03	800367	DP	3	10	058	2	1927	1	0	67		I	1	19.0	9.8	9	10	2	30 25.8	80 12.2
OS03	800368	DP	3	10	058	2	1939	1	0	66		I	1	20.0	9.8	9	10	2	30 26.0	80 12.2
OS03	800369	DP	3	10	058	2	1951	1	0	66		I	1	20.0	9.8	9	10	2	30 26.3	80 12.2
OS03	800370	DP	3	10	058	2	1957	1	0	64		I	1	20.0	9.8	9	10	2	30 26.4	80 12.1
OS03	800371	DP	3	10	058	1	2009	1	0	61		I	2	20.0	10.5	9	9	2	30 26.6	80 12.1
OS03	800372	DP	3	10	067	2	2039	1	7	60		I	1	21.0	10.5	22	9	2	30 26.9	80 12.1
OS03	800373	DP	3	10	041	1	2221	4	66	58		I	0	20.0	9.8	18	5	2	30 26.8	80 12.3
OS03	800374	DP	3	10	041	1	2227	4	74	58		I	0	20.0	9.8	18	5	2	30 26.7	80 12.2
OS03	800375	DP	3	10	061	0	2227	4	78	58		I	0	20.0	9.8	18	5	2	30 26.6	80 12.2
OS03	800376	DP	3	10	061	0	2227	4	83	58		I	0	20.0	9.8	18	5	2	30 26.5	80 12.3
OS03	800377	DP	3	10	061	0	2233	4	89	58		I	0	20.0	9.8	18	5	2	30 26.5	80 12.3
OS03	800378	DP	3	10	061	1	2233	4	92	58		I	0	20.0	9.8	18	5	2	30 26.4	80 12.3
OS03	800379	DP	3	10	043	1	2233	4	40	58		I	0	20.0	9.8	18	5	2	30 26.4	80 12.4
OS03	800380	DP	3	10	043	1	2233	4	40	58		I	0	20.0	9.8	18	5	2	30 26.4	80 12.4
OS03	800381	DP	3	10	043	1	2233	4	40	58		I	0	20.0	9.8	18	5	2	30 26.4	80 12.4
OS03	800382	DP	3	11	069	1	115	2	11	63		I	0	20.0	11.2	25	5	2	30 26.0	80 12.3
OS03	800383	DP	3	11	069	1	139	2	11	60		I	0	20.0	11.2	25	5	2	30 26.8	80 12.1
OS03	800384	DP	3	11	506		257	2	71	54		G	0	21.0	11.9	22	6	3	30 25.3	80 12.7

Appendix 1 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
0S03	800385	DP	3	11	067	1	533	2	2	61		F	0	20.0	12.2	22	8	2	30 26.2	80 12.3
0S03	800386	DP	3	11	506		703	2	6	63		F	0	20.0	12.2	27	8	2	30 25.9	80 12.3
0S03	800387	DP	3	11	498		703	2	6	60		F	0	20.0	12.2	27	8	2	30 25.9	80 12.3
0S03	800388	DP	3	11	506		751	2	38	52		F	0	20.0	12.2	27	8	3	30 25.4	80 13.1
0S03	800389	DP	3	11	498		751	2	38	52		F	0	20.0	12.2	27	8	3	30 25.4	80 13.1
0S03	800390	DP	3	11	041	1	1015	3	71	60		I	0	20.0	13.5	27	10	3	30 26.3	80 12.4
0S03	800391	DP	3	11	041	0	1015	3	79	60		I	0	20.0	13.5	27	10	3	30 26.2	80 12.4
0S03	800392	DP	3	11	061	1	1021	3	86	60		I	0	20.0	13.5	27	10	3	30 26.1	80 12.5
0S03	800393	DP	3	11	061	0	1021	3	99	60		I	0	20.0	13.5	27	10	3	30 26.0	80 12.5
0S03	800394	DP	3	11	061	0	1021	3	117	58		I	0	20.0	13.5	27	10	3	30 26.0	80 12.5
0S03	800395	DP	3	11	061	0	1027	3	85	56		I	0	20.0	13.5	27	10	3	30 25.9	80 12.6
0S03	800396	DP	3	11	043	0	1033	3	35	60		I	0	20.0	13.5	27	10	3	30 25.9	80 12.5
0S03	800397	DP	3	11	043	1	1033	3	35	60		I	0	20.0	13.5	27	10	3	30 25.9	80 12.5
0S03	800398	DP	3	11	043	0	1033	3	35	60		I	0	20.0	13.5	27	10	3	30 25.9	80 12.5

Appendix 2. Field records obtained for each sample collection during the summer cruise 1980. Collection numbers are listed in numerical order by station. Keys to the following coded information are listed on this page.

Category	Code
Vessel:	BB - R/V Bagby
	DP - R/V Dolphin
Gear:	014 - Hook and line
	041 - Mini-Antillean s-trap
	042 - Snapper reel
	058 - Smith-MacIntyre grab
	061 - Vertical long line
	064 - Suction sampler
	065 - Spear gun collection
	066 - Rock collection
	067 - Rock dredge
	068 - Transmissometer
	069 - Burrell sled, 374 m mesh
	070 - 40/54 fly net
	072 - Cerame-Vivas dredge
	074 - Florida Antillean trap
	300 - Niskin bottles - standard cast
	303 - Fathometer plus Loran
	498 - Edgerton camera
	499 - Ground truth photography with Nikonos camera
	506 - Towed TV transect - horizontal
	508 - Swimming transects with diver observations and/or collections
Catch:	0 - No catch
	1 - Catch with finfish
	2 - Catch without finfish
	3 - No catch - gear lost or damaged
	4 - Catch inadvertently mixed
	5 - Net obstructed by Stomolophus
	6 - Catch questionable - net or gear damaged
	7 - NA
Light Phase:	1 - Day
	2 - Night
	3 - Dawn
	4 - Dusk

Category	Code
Cloud Cover:	A - Clear
	B - 10% or less
	C - 20-30%
	D - 40%
	E - 50%
	F - 60%
	G - 70-80%
	H - 90%
	I - 100%
	J - No estimate
Precipitation:	0 - None
	1 - Light rain
	2 - Moderate rain
	3 - Heavy rain
Wind Direction:	00 - No motion
	01 - 005° - 014°
	02 - 015° - 024°
	03 - 025° - 034°
	. . .
	. . .
	. . .
	35 - 345° - 354°
	36 - 355° - 004°
	99 - Variable or unknown
Sea State:	0 - Glassy
	1 - > 0.0 - ≤ 0.1
	2 - > 0.1 - ≤ 0.5
	3 - > 0.5 - ≤ 1.25
	4 - > 1.25 - ≤ 2.5
	5 - > 2.5 - ≤ 4.0
	6 - > 4.0 - ≤ 6.0
	7 - > 6.0 - ≤ 9.0
	8 - > 9.0 - ≤ 14.0
	9 - > 14.0 -

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
ISO1	800431	DP	8	6	506		2357	4	4	17		B	0	30.0	22.4	18	4	2	32 29.8	79 42.0
ISO1	800432	DP	8	7	506		21	4	29	17		B	0	30.0	22.4	18	4	2	32 29.8	79 42.1
ISO1	800433	DP	8	7	506		115	2	26	17		C	0	29.0	22.7	18	5	2	32 29.5	79 41.8
ISO1	800434	DP	8	7	506		203	2	27	17		J	0	30.0	22.7	18	6	2	32 30.0	79 43.1
ISO1	800435	DP	8	7	506		257	2	33	17		J	0	30.0	22.7	16	4	2	32 30.3	79 42.5
ISO1	800436	DP	8	7	300	7	357	2	15	16	8.0	J	0	29.0	22.7	18	5	2	32 30.2	79 42.5
ISO1	800437	DP	8	7	068	7	415	2	8	16		J	0	29.0	22.7	18	5	2	32 30.2	79 42.5
ISO1	800438	DP	8	7	506		621	2	33	17		J	0	29.0	22.7	18	4	2	32 29.5	79 42.0
ISO1	800439	DP	8	7	498		621	2	33	17		J	0	29.0	22.7	18	4	2	32 29.5	79 42.0
ISO1	800440	DP	8	7	506		727	2	44	17		J	0	30.0	22.7	18	4	2	32 29.6	79 41.9
ISO1	800441	DP	8	7	498		727	2	44	17		J	0	30.0	22.7	18	4	2	32 29.6	79 41.9
ISO1	800442	DP	8	7	074	1	945	3	59	17		C	0	29.0	22.7	18	4	1	32 29.9	79 42.8
ISO1	800443	DP	8	7	074	1	951	3	78	17		C	0	29.0	22.7	18	4	1	32 29.9	79 42.6
ISO1	800444	DP	8	7	041	1	951	3	73	17		C	0	29.0	22.7	18	4	1	32 29.9	79 42.5
ISO1	800445	DP	8	7	041	1	951	3	66	17		C	0	29.0	22.7	18	4	1	32 29.8	79 42.3
ISO1	800446	DP	8	7	061	1	951	3	115	17		C	0	29.0	22.7	18	4	1	32 29.8	79 42.2
ISO1	800447	DP	8	7	061	1	957	3	107	17		C	0	29.0	22.7	18	4	1	32 29.8	79 42.0
ISO1	800448	DP	8	7	061	1	957	3	87	17		C	0	29.0	22.7	18	4	1	32 29.8	79 41.9
ISO1	800449	DP	8	7	061	3	1003	3	79	17		C	0	29.0	22.7	18	4	1	32 29.8	79 41.7
ISO1	800450	DP	8	7	043	1	1021	3	15	17		B	0	29.0	22.7	18	4	1	32 30.0	79 42.5
ISO1	800451	DP	8	7	043	1	1021	3	15	17		B	0	29.0	22.7	18	5	1	32 30.0	79 42.5
ISO1	800452	DP	8	7	043	1	1021	3	15	17		B	0	29.0	22.7	18	5	1	32 30.0	79 42.5
ISO1	800453	DP	8	7	070	1	1257	1	13	17		B	0		23.4			1	32 29.8	79 41.9
ISO1	800454	DP	8	7	070	1	1433	1	14	17		B	0		23.7			1	32 29.4	79 42.3
ISO1	800455	DP	8	7	070	1	1621	1	11	18		B	0		23.7	20	3	2	32 29.6	79 42.4
ISO1	800456	DP	8	7	067	2	1821	1	4	17		B	0		22.7	20	3	2	32 29.9	79 42.6
ISO1	800457	DP	8	7	067	2	1909	1	4	17		B	0		22.7	20	3	2	32 30.0	79 42.3
ISO1	800458	DP	8	7	014	1	2003	1		17		B	0	32.0	22.7	18	3	2	32 30.2	79 42.4
ISO1	800459	DP	8	7	041	1	2321	4	48	17		C	0	30.0	21.0	14	3	2	32 30.0	79 42.9
ISO1	800460	DP	8	7	041	1	2321	4	54	17		C	0	30.0	21.0	14	3	2	32 30.0	79 42.8
ISO1	800461	DP	8	7	061	3	2321	4	81	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.6
ISO1	800462	DP	8	7	061	1	2321	4	75	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.5
ISO1	800463	DP	8	7	061	3	2321	4	68	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.4
ISO1	800464	DP	8	7	061	1	2327	4	58	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.3
ISO1	800465	DP	8	7	043	1	2327	4	19	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.3
ISO1	800466	DP	8	7	043	1	2327	4	19	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.3
ISO1	800467	DP	8	7	043	3	2327	4	19	17		C	0	30.0	21.0	14	3	2	32 29.9	79 42.3
ISO1	800468	DP	8	8	070	1	157	2	14	17		J	0	28.0	21.0	18	4	2	32 30.2	79 42.2
ISO1	800469	DP	8	8	070	1	403	2	16	17		J	0	30.0	20.0	18	5	1	32 29.9	79 42.6
ISO1	800470	DP	8	8	070	1	615	2	15	17		J	0	29.0	20.0	18	5	1	32 29.7	79 42.9
ISO1	800471	DP	8	8	069	1	757	2	8	17		J	0	30.0	19.6	18	5	2	32 29.8	79 42.7
ISO1	800472	DP	8	8	069	1	827	2	8	17		J	0	30.0	19.6	18	5	2	32 29.7	79 42.7
ISO1	805089	BB	8	11	499	7	1645	1	16	19		G	0	29.0	24.4	18	25	3	32 29.5	79 42.5
ISO1	805090	BB	8	11	508	1	1645	1	16	19		G	0	29.0	24.4	18	25	3	32 29.5	79 42.5
ISO1	805091	BB	8	11	064	2	1733	1	26	19		F	0	28.0	24.4	18	29	3	32 29.5	79 42.5

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS01	805092	BB	8	11	064	2	1733	1	26	19		F	0	28.0	24.4	18	29	3	32 29.5	79 42.5
IS01	805093	BB	8	11	064	2	1733	1	26	19		F	0	28.0	24.4	18	29	3	32 29.5	79 42.5
IS01	805094	BB	8	11	064	2	1733	1	26	19		F	0	28.0	24.4	18	29	3	32 29.5	79 42.5
IS01	805095	BB	8	11	064	2	1733	1	26	19		F	0	28.0	24.4	18	29	3	32 29.5	79 42.5
IS01	805096	BB	8	11	499	7	1733	1	26	19		F	0	28.0	24.4	18	29	3	32 29.5	79 42.5
IS01	805097	BB	8	11	303	7	1839	1	66	17		E	0	29.0	24.4	18	19	3	32 29.5	79 42.5
IS01	805098	BB	8	11	499	7	2009	1	19	19		D	0	31.0	22.7	18	12	3	32 29.5	79 42.5
IS01	805099	BB	8	11	499	7	2009	1	19	19		D	0	31.0	22.7	18	12	3	32 29.5	79 42.5
IS01	805137	BB	9	18	499	7	1639	1	27	19		F	0	29.0	21.3	22	12	4	32 29.5	79 42.5
IS01	805138	BB	9	18	499	7	1639	1	27	19		F	0	29.0	21.3	22	12	4	32 29.5	79 42.5
IS02	800473	DP	8	8	506		1939	1	23	17		B	0	32.0	18.6	18	3	2	31 23.7	80 52.8
IS02	800474	DP	8	8	506		2027	1	26	17		B	0	33.0	18.6	18	3	3	31 23.3	80 52.9
IS02	800475	DP	8	8	506		2121	1	35	17		B	0	30.0	18.6	18	3	3	31 23.1	80 53.3
IS02	800476	DP	8	8	506		2233	1	25	19		C	0	29.0	17.9	18	4	2	31 23.6	80 52.8
IS02	800477	DP	8	8	300	7	2327	4	22	18	6.0	C	0	29.0	17.9	18	4	2	31 23.4	80 53.0
IS02	800478	DP	8	8	068	7	2339	4	11	18		C	0	29.0	17.9	18	4	2	31 23.4	80 53.0
IS02	800479	DP	8	9	498		039	4	38	20		J	0	30.0	17.9	18	5	2	31 23.4	80 52.6
IS02	800480	DP	8	9	498		139	2	47	17		J	0	30.0	18.3	18	6	2	31 23.7	80 52.6
IS02	800481	DP	8	9	070	1	315	2	17	17		J	0	30.0	18.3	18	5	2	31 23.5	80 52.8
IS02	800482	DP	8	9	070	1	527	2	13	17		J	0	28.0	17.9	22	6	2	31 23.2	80 52.9
IS02	800483	DP	8	9	070	1	727	2	16	17		J	0	29.0	17.3	22	6	2	31 23.7	80 52.9
IS02	800484	DP	8	9	074	1	939	3	51	17		J	0	29.0	16.9	18	6	2	31 23.9	80 53.2
IS02	800485	DP	8	9	074	0	945	3	55	17		J	0	29.0	16.9	18	6	2	31 23.8	80 53.1
IS02	800486	DP	8	9	041	0	945	3	74	17		J	0	29.0	16.9	18	6	2	31 23.8	80 53.1
IS02	800487	DP	8	9	041	0	945	3	63	17		J	0	29.0	16.9	18	6	2	31 23.8	80 53.0
IS02	800488	DP	8	9	061	1	945	3	106	17		J	0	29.0	16.9	18	6	2	31 23.7	80 52.9
IS02	800489	DP	8	9	061	1	945	3	96	17		J	0	29.0	16.9	18	6	2	31 23.7	80 52.9
IS02	800490	DP	8	9	061	1	951	3	88	17		J	0	29.0	16.9	18	6	2	31 23.6	80 52.8
IS02	800491	DP	8	9	061	1	951	3	78	17		J	0	29.0	16.9	18	6	2	31 23.6	80 52.7
IS02	800492	DP	8	9	043	1	1003	3	18	17		J	0	29.0	16.9	18	6	2	31 23.5	80 52.8
IS02	800493	DP	8	9	043	0	1003	3	18	17		J	0	29.0	16.9	18	6	2	31 23.5	80 52.8
IS02	800494	DP	8	9	043	0	1003	3	18	17		J	0	29.0	16.9	18	6	2	31 23.5	80 52.8
IS02	800495	DP	8	9	070	1	1345	1	12	18		F	0	29.0	17.3	18	3	2	31 23.1	80 53.1
IS02	800496	DP	8	9	070	1	1457	1	14	18		G	0	29.0	17.3	18	4	2	31 23.2	80 53.1
IS02	800497	DP	8	9	070	1	1645	1	9	17		F	0	29.0	17.9	18	4	2	31 23.2	80 53.2
IS02	800498	DP	8	9	067	2	2021	1	3	17		C	0	30.0	15.9	18	7	3	31 23.7	80 53.1
IS02	800499	DP	8	9	067	2	2057	1	3	17		C	0	30.0	15.9	18	7	3	31 23.5	80 53.1
IS02	800500	DP	8	9	074	0	2321	4	42	17		D	0	29.0	15.9	18	4	2	31 23.8	80 53.1
IS02	800501	DP	8	9	074	1	2321	4	45	17		D	0	29.0	15.9	18	4	2	31 23.7	80 53.1
IS02	800502	DP	8	9	041	1	2321	4	48	17		D	0	29.0	15.9	18	4	2	31 23.7	80 53.2
IS02	800503	DP	8	9	041	0	2321	4	51	17		D	0	29.0	15.9	18	4	2	31 23.7	80 53.3
IS02	800504	DP	8	9	061	0	2327	4	77	17		D	0	29.0	15.9	18	4	2	31 23.8	80 53.3
IS02	800505	DP	8	9	061	0	2327	4	69	17		D	0	29.0	15.9	18	4	2	31 23.9	80 53.3
IS02	800506	DP	8	9	061	0	2333	4	59	17		D	0	29.0	15.9	18	4	2	31 23.9	80 53.2
IS02	800507	DP	8	9	061	0	2333	4	47	17		D	0	29.0	15.9	18	4	2	31 24.0	80 53.2

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS02	800508	DP	8	9	043	1	2339	4	15	17		D	0	29.0	15.9	18	4	2	31 23.8	80 53.1
IS02	800509	DP	8	9	043	0	2339	4	15	17		D	0	29.0	15.9	18	4	2	31 23.8	80 53.1
IS02	800510	DP	8	9	043	1	2339	4	15	17		D	0	29.0	15.9	18	4	2	31 23.8	80 53.1
IS02	800511	DP	8	10	069	1	133	2	8	18		J	0	29.0	16.3	18	4	2	31 23.4	80 53.0
IS02	800512	DP	8	10	069	1	215	2	8	18		J	0	28.0	16.3	18	4	2	31 23.4	80 53.1
IS02	805080	BB	8	6	499	7	1333	1	28	19		D	0	29.0	26.1	18	19	2	31 23.6	80 53.2
IS02	805081	BB	8	6	499	7	1333	1	28	19		D	0	29.0	26.1	18	19	2	31 23.6	80 53.2
IS02	805082	BB	8	6	508	1	1333	1	28	19		D	0	29.0	26.1	18	19	2	31 23.6	80 53.2
IS02	805083	BB	8	6	064	2	1439	1	13	19		C	0	29.0	26.1	18	9	2	31 23.6	80 53.2
IS02	805084	BB	8	6	064	2	1439	1	13	19		C	0	29.0	26.1	18	9	2	31 23.6	80 53.2
IS02	805085	BB	8	6	064	2	1633	1	27	19		B	0	32.0	29.1	9	19	2	31 23.6	80 53.2
IS02	805086	BB	8	6	064	2	1633	1	27	19		B	0	32.0	29.1	9	19	2	31 23.6	80 53.2
IS02	805087	BB	8	6	064	2	1633	1	27	19		B	0	32.0	29.1	9	19	2	31 23.6	80 53.2
IS02	805088	BB	8	6	303	7	1721	1	46	18		B	0	28.0	29.1	9	12	2	31 23.6	80 53.2
IS03	800513	DP	8	10	506		857	2	24	20		J	0	28.0	16.6	18	1	2	30 36.7	81 10.5
IS03	800514	DP	8	10	506		951	3	39	21		J	0	28.0	16.6	18	5	2	30 36.8	81 10.3
IS03	800515	DP	8	10	300	7	1103	3	22	21	11.0	E	0	28.0	16.6	18	5	2	30 36.8	81 10.6
IS03	800516	DP	8	10	068	7	1115	3	10	21		E	0	28.0	16.6	18	5	2	30 36.8	81 10.6
IS03	800517	DP	8	10	506		1227	1	36	20		C	0	29.0	16.6	18	6	2	30 36.5	81 10.5
IS03	800518	DP	8	10	498		1351	1	40	21		E	0	29.0	16.9	18	6	2	30 36.6	81 10.5
IS03	800519	DP	8	10	498		1457	1	35	21		B	0	29.0	17.3	18	6	2	30 36.7	81 10.3
IS03	800520	DP	8	10	070	1	1615	1	4	21		B	0	29.0	16.6	16	6	2	30 36.9	81 10.7
IS03	800521	DP	8	10	070	1	1851	1	15	19		C	0	32.0	16.6	16	8	3	30 37.2	81 10.4
IS03	800522	DP	8	10	070	1	2051	1	18	20		C	0	31.0	16.6	16	6	3	30 37.5	81 10.5
IS03	800523	DP	8	10	041	1	2321	4	40	20		D	0	30.0	16.6	16	6	3	30 37.3	81 10.8
IS03	800524	DP	8	10	041	1	2321	4	44	20		D	0	30.0	16.6	16	6	3	30 37.3	81 10.8
IS03	800525	DP	8	10	061	1	2321	4	47	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.7
IS03	800526	DP	8	10	061	0	2327	4	62	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.7
IS03	800527	DP	8	10	061	0	2327	4	66	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.7
IS03	800528	DP	8	10	061	0	2327	4	45	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.7
IS03	800529	DP	8	10	043	1	2333	4	9	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.6
IS03	800530	DP	8	10	043	0	2333	4	15	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.6
IS03	800531	DP	8	10	043	1	2333	4	15	20		D	0	30.0	16.6	16	6	3	30 37.2	81 10.6
IS03	800532	DP	8	11	070	1	139	2	7	21		D	0	29.0	17.3	16	5	3	30 36.9	81 10.8
IS03	800533	DP	8	11	070	1	621	2	14	21		J	0	30.0	17.6	16	3	2	30 37.2	81 10.5
IS03	800534	DP	8	11	069	1	739	2	7	20		J	0	29.0	17.6	16	6	2	30 37.1	81 10.4
IS03	800535	DP	8	11	069	1	809	2	8	20		J	0	29.0	17.3	16	7	2	30 36.9	81 10.3
IS03	800536	DP	8	11	074	1	945	3	43	21		J	0	28.0	16.6	16	2	3	30 37.1	81 11.1
IS03	800537	DP	8	11	074	0	945	3	49	21		J	0	28.0	16.6	16	2	3	30 37.1	81 11.0
IS03	800538	DP	8	11	041	0	951	3	52	21		J	0	28.0	16.6	16	2	3	30 37.0	81 10.9
IS03	800539	DP	8	11	041	0	951	3	54	21		J	0	28.0	16.6	16	2	3	30 37.0	81 10.8
IS03	800540	DP	8	11	061	1	951	3	57	21		J	0	28.0	16.6	16	2	3	30 36.9	81 10.8
IS03	800541	DP	8	11	061	1	957	3	62	21		J	0	28.0	16.6	16	1	3	30 36.9	81 10.7
IS03	800542	DP	8	11	061	0	957	3	72	21		J	0	28.0	16.6	16	1	3	30 36.8	81 10.6
IS03	800543	DP	8	11	061	1	957	3	71	21		J	0	28.0	16.6	16	1	3	30 36.8	81 10.6

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
IS03	800544	DP	8	11	043	1	1003	3	15	21		J	0	28.0	16.6	16	1	3	30 36.8	81 10.5
IS03	800545	DP	8	11	043	1	1003	3	15	21		J	0	28.0	16.6	16	1	3	30 36.8	81 10.5
IS03	800546	DP	8	11	043	1	1003	3	15	21		J	0	28.0	16.6	16	1	3	30 36.8	81 10.5
IS03	800547	DP	8	11	067	2	1145	1	4	21		F	0	29.0	18.3	18	4	2	30 37.2	81 11.0
IS03	800548	DP	8	11	067	2	1209	1	3	21		F	0	30.0	18.6	18	5	2	30 37.0	81 10.8
IS03	805068	BB	8	4	303	7	1439	1	42	21		C	0	28.0	23.7	22	5	2	30 37.0	81 10.7
IS03	805069	BB	8	4	499	7	1551	1	20	22		B	0	31.0	24.4	22	5	2	30 37.0	81 10.7
IS03	805070	BB	8	4	499	7	1551	1	20	22		B	0	31.0	24.4	22	5	2	30 37.0	81 10.7
IS03	805071	BB	8	4	508	1	1551	1	20	22		B	0	31.0	24.4	22	5	2	30 37.0	81 10.7
IS03	805072	BB	8	4	064	2	1633	1	26	22		A	0	30.0	24.0	0	0	2	30 37.0	81 10.7
IS03	805073	BB	8	4	064	2	1633	1	26	22		A	0	30.0	24.0	0	0	2	30 37.0	81 10.7
IS03	805074	BB	8	4	064	2	1633	1	26	22		A	0	30.0	24.0	0	0	2	30 37.0	81 10.7
IS03	805075	BB	8	4	064	2	1633	1	26	22		A	0	30.0	24.0	0	0	2	30 37.0	81 10.7
IS03	805076	BB	8	4	064	2	1633	1	26	22		A	0	30.0	24.0	0	0	2	30 37.0	81 10.7
IS03	805077	BB	8	4	499	7	1721	1	20	22		B	0	31.0	23.4	14	5	2	30 37.0	81 10.7
IS03	805078	BB	8	4	499	7	1721	1	17	22		B	0	31.0	23.4	14	5	2	30 37.0	81 10.7
IS03	805079	BB	8	4	066	2	1903	1	20	22		B	0	31.0	22.7	22	9	2	30 37.0	81 10.7
MS01	800590	DP	8	13	506		839	2	47	31		J	0	29.0		18	3	3	31 44.2	80 14.0
MS01	800591	DP	8	13	506		1021	3	57	27		E	0	28.0	17.3	18	3	2	31 43.7	80 14.1
MS01	800592	DP	8	13	506		1151	1	33	30		G	0	28.0	17.6	18	3	2	31 44.1	80 13.8
MS01	800593	DP	8	13	498		1339	1	85	30		D	0	31.0	18.6			1	31 43.9	80 13.8
MS01	800594	DP	8	20	300	7	227	2	27	23	18.0	J	0	29.0	17.9	18	5	2	31 44.1	80 14.4
MS01	800595	DP	8	20	068	7	245	2	4	23		J	0	29.0	17.9	18	5	2	31 44.1	80 14.4
MS01	800596	DP	8	20	070	1	509	2	12	32		J	0	29.0	17.9	22	6	2	31 44.0	80 13.2
MS01	800597	DP	8	20	070	1	739	2	18	32		J	0	29.0	16.6	22	6	2	31 43.9	80 13.2
MS01	800598	DP	8	20	074	0	1003	3	51	27		J	0	28.0	15.9	22	7	2	31 44.0	80 13.3
MS01	800599	DP	8	20	074	0	1003	3	56	27		J	0	28.0	15.9	22	7	2	31 44.0	80 13.3
MS01	800600	DP	8	20	041	0	1003	3	62	27		J	0	28.0	15.9	22	7	2	31 44.0	80 13.4
MS01	800601	DP	8	20	041	1	1003	3	67	27		J	0	28.0	15.9	22	7	2	31 44.0	80 13.5
MS01	800602	DP	8	20	061	0	1009	3	71	27		J	0	28.0	15.9	22	7	2	31 44.1	80 13.6
MS01	800603	DP	8	20	061	1	1009	3	78	27		J	0	28.0	15.9	22	7	2	31 44.1	80 13.7
MS01	800604	DP	8	20	061	0	1015	3	82	27		J	0	28.0	15.9	22	7	2	31 44.2	80 13.8
MS01	800605	DP	8	20	061	0	1015	3	90	27		J	0	28.0	15.9	22	7	2	31 44.2	80 13.9
MS01	800606	DP	8	20	043	1	1027	3	15	27		J	0	28.0	15.9	22	7	2	31 44.2	80 13.2
MS01	800607	DP	8	20	043	0	1027	3	15	27		J	0	28.0	15.9	22	7	2	31 44.2	80 13.2
MS01	800608	DP	8	20	043	1	1027	3	15	27		J	0	28.0	15.9	22	7	2	31 44.2	80 13.2
MS01	800609	DP	8	20	070	1	1339	1	11	30		D	0	28.0	16.6	22	6	2	31 44.0	80 13.8
MS01	800610	DP	8	20	070	1	1457	1	17	27		G	0	30.0		22	6	2	31 43.6	80 13.3
MS01	800611	DP	8	20	070	1	1733	1	14	30		A	0	31.0	15.6	22	6	2	31 44.1	80 13.8
MS01	800612	DP	8	20	067	2	1915	1	4	32		A	0	34.0	15.2	22	4	2	31 44.1	80 13.6
MS01	800613	DP	8	20	067	2	2151	1	6	32		A	0	33.0	14.6	22	4	2	31 44.0	80 13.8
MS01	800614	DP	8	20	067	2	2215	4	0	28		C	0	32.0	14.6			1	31 44.2	80 13.6
MS01	800615	DP	8	20	041	1	2245	4	41	28		C	0	32.0	14.2			1	31 44.3	80 13.4
MS01	800616	DP	8	20	041	1	2251	4	50	28		C	0	32.0	14.2			1	31 44.3	80 13.4
MS01	800617	DP	8	20	061	0	2251	4	52	28		C	0	32.0	14.2			1	31 44.2	80 13.6

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS01	800618	DP	8	20	061	1	2251	4	56	28		C	0	32.0	14.2			1	31 44.2	80 13.6
MS01	800619	DP	8	20	061	1	2257	4	63	28		C	0	32.0	14.2			1	31 44.1	80 13.7
MS01	800620	DP	8	20	061	0	2257	4	68	28		C	0	32.0	14.2			1	31 44.1	80 13.7
MS01	800621	DP	8	20	043	0	2303	4	15	28		C	0	32.0	14.2			1	31 44.2	80 13.5
MS01	800622	DP	8	20	043	0	2303	4	15	28		C	0	32.0	14.2			1	31 44.2	80 13.5
MS01	800623	DP	8	20	043	1	2303	4	15	28		C	0	32.0	14.2			1	31 44.2	80 13.5
MS01	800624	DP	8	21	069	1	51	2	9	27		J	0	31.0	14.6			1	31 44.0	80 13.5
MS01	800625	DP	8	21	069	1	127	2	9	27		J	0	30.0	14.6			1	31 44.0	80 13.3
MS01	800626	DP	8	21	070	1	221	2	15	28		J	0	30.0	14.9			1	31 43.8	80 13.3
MS01	805110	BB	8	20	508	1	2057	1	14	36		A	0	30.0	33.5		9	2	31 44.1	80 13.0
MS01	805111	BB	8	20	499	7	2057	1	14	36		A	0	30.0	33.5		9	2	31 44.1	80 13.0
MS01	805112	BB	8	20	499	7	2057	1	14	36		A	0	30.0	33.5		9	2	31 44.1	80 13.0
MS01	805113	BB	8	20	499	7	2127	1	14	36		A	0	30.0	33.5		9	2	31 44.1	80 13.0
MS01	805114	BB	8	20	303	7	2157	1	40	33		A	0	30.0	32.8		9	2	31 44.1	80 13.0
MS01	805115	BB	8	21	064	2	1251	1	20	35		E	0	29.0	49.8	16	16	2	31 44.1	80 13.0
MS01	805116	BB	8	21	064	2	1251	1	20	35		E	0	29.0	49.8	16	16	2	31 44.1	80 13.0
MS01	805117	BB	8	21	064	2	1251	1	20	35		E	0	29.0	49.8	16	16	2	31 44.1	80 13.0
MS01	805118	BB	8	21	064	2	1321	1	21	33		E	0	29.0	49.8	16	16	2	31 44.1	80 13.0
MS01	805119	BB	8	21	064	2	1321	1	21	33		E	0	29.0	49.8	16	16	2	31 44.1	80 13.0
MS01	805120	BB	8	21	499	7	1351	1	19	33		C	0	29.0	49.8	16	10	2	31 44.1	80 13.0
MS01	805121	BB	8	21	499	7	1351	1	19	33		C	0	29.0	49.8	16	10	2	31 44.1	80 13.0
MS01	805122	BB	8	21	499	7	1351	1	19	33		C	0	29.0	49.8	16	10	2	31 44.1	80 13.0
MS01	805133	BB	9	15	066	2	1609	1	15	37		A	0	30.0	20.0	22	12	3	31 44.1	80 13.0
MS02	800549	DP	8	11	506		2215	1	30	27		C	0	32.0	18.3	18	4	3	31 40.7	80 20.9
MS02	800550	DP	8	11	506		2315	4	30	28		B	0	32.0	18.3	16	4	2	31 40.8	80 20.7
MS02	800551	DP	8	12	300	7	09	2	34	28	14.0	B	0	30.0	18.6	16	6	3	31 41.6	80 20.8
MS02	800552	DP	8	12	068	7	33	2	6	28		B	0	30.0	18.6	16	6	3	31 41.6	80 20.8
MS02	800553	DP	8	12	506		215	2	39	28		J	0	29.0	19.0	16	5	2	31 40.8	80 20.8
MS02	800554	DP	8	12	498		351	2	87	28		J	0	30.0	18.6	16	5	2	31 40.8	80 20.5
MS02	800555	DP	8	12	498		551	2	2			J	0	30.0	18.6	16	5	2	31 41.0	80 20.9
MS02	800556	DP	8	12	498		615	2	24			J	0	30.0	18.6	16	5	2	31 40.9	80 20.9
MS02	800557	DP	8	12	069	1	721	2	8	27		J	0	29.0	17.9	22	6	2	31 41.0	80 20.9
MS02	800558	DP	8	12	069	1	745	2	8	26		J	0	29.0	17.9	22	6	2	31 40.9	80 20.7
MS02	800559	DP	8	12	074	0	939	3	64	28		J	0	28.0	17.9	20	6	3	31 41.4	80 20.9
MS02	800560	DP	8	12	074	0	939	3	68	28		J	0	28.0	17.9	20	6	3	31 41.3	80 20.8
MS02	800561	DP	8	12	041	0	939	3	73	28		J	0	28.0	17.9	20	6	3	31 41.3	80 20.8
MS02	800562	DP	8	12	041	0	945	3	77	28		J	0	28.0	17.9	20	6	3	31 41.2	80 20.7
MS02	800563	DP	8	12	061	0	945	3	80	28		J	0	28.0	17.9	20	6	3	31 41.1	80 20.7
MS02	800564	DP	8	12	061	0	945	3	86	28		J	0	28.0	17.9	20	6	3	31 41.0	80 20.6
MS02	800565	DP	8	12	061	1	951	3	90	28		J	0	28.0	17.9	20	6	3	31 41.0	80 20.6
MS02	800566	DP	8	12	061	0	951	3	94	28		J	0	28.0	17.9	20	6	3	31 40.9	80 20.6
MS02	800567	DP	8	12	043	1	1003	3	15	28		D	0	28.0	17.9	20	6	2	31 40.6	80 20.9
MS02	800568	DP	8	12	043	1	1003	3	15	28		D	0	28.0	17.9	20	6	2	31 40.6	80 20.9
MS02	800569	DP	8	12	043	1	1003	3	15	28		D	0	28.0	17.9	20	6	2	31 40.6	80 20.9
MS02	800570	DP	8	12	067	2	1203	1	3	28		C	0	28.0	18.6	20	6	2	31 41.2	80 20.7

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS02	800571	DP	8	12	067	2	1227	1	3	28		C	0	28.0	19.0	22	6	3	31 41.1	80 20.9
MS02	800572	DP	8	12	070	1	1351	1	13	28		B	0	29.0	19.0	22	5	3	31 40.9	80 20.7
MS02	800573	DP	8	12	070	1	1527	1	10	28		A	0	28.0	19.3	22	4	3	31 41.2	80 20.7
MS02	800574	DP	8	12	070	1	1751	1	11	29		B	0	29.0	19.3	22	4	3	31 41.0	80 20.7
MS02	800575	DP	8	12	014	1	1851	1	67	28		C	0	29.0	19.3	22	4	3	31 41.3	80 20.9
MS02	800576	DP	8	12	506		2021	1	27	30		D	0	31.0	17.3	18	8	3	31 40.9	80 21.0
MS02	800577	DP	8	12	506		2115	1	14	31		G	0	32.0	17.3	18	8	3	31 41.2	80 20.9
MS02	800578	DP	8	12	041	1	2303	4	48	28		G	0	29.0	16.6	22	8	3	31 41.3	80 20.8
MS02	800579	DP	8	12	041	0	2309	4	52	28		G	0	29.0	16.6	22	8	3	31 41.3	80 20.9
MS02	800580	DP	8	12	061	1	2309	4	57	28		G	0	29.0	16.6	22	8	3	31 41.2	80 20.9
MS02	800581	DP	8	12	061	1	2309	4	61	28		G	0	29.0	16.6	18	8	3	31 41.2	80 20.9
MS02	800582	DP	8	12	061	1	2315	4	69	28		G	0	29.0	16.6	18	8	3	31 41.1	80 20.9
MS02	800583	DP	8	12	061	1	2315	4	78	28		G	0	29.0	16.6	18	8	3	31 41.1	80 21.0
MS02	800584	DP	8	12	043	1	2321	4	15	28		G	0	29.0	16.6	18	8	3	31 41.1	80 21.1
MS02	800585	DP	8	12	043	0	2321	4	15	28		G	0	29.0	16.6	18	8	3	31 41.1	80 21.1
MS02	800586	DP	8	12	043	1	2321	4	15	28		G	0	29.0	16.6	18	8	3	31 41.1	80 21.1
MS02	800587	DP	8	13	070	1	157	2	11	30		F	0	29.0	17.9	18	8	3	31 41.2	80 20.7
MS02	800588	DP	8	13	070	1	409	2	9	28		J	0	29.0	18.6	20	7	3	31 40.8	80 20.6
MS02	800589	DP	8	13	070	1	603	2	12	27		J	0	29.0	17.9	20	7	4	31 40.5	80 20.6
MS02	805100	BB	8	19	499	7	1939	1	23	30		B	0	31.0	23.0	9	3	3	31 41.1	80 20.8
MS02	805101	BB	8	19	499	7	1939	1	23	30		B	0	31.0	23.0	9	3	3	31 41.1	80 20.8
MS02	805102	BB	8	19	508	1	1939	1	23	30		B	0	31.0	23.0	9	3	3	31 41.1	80 20.8
MS02	805103	BB	8	19	499	7	2015	1	16	30		B	0	31.0	22.7	9	3	3	31 41.1	80 20.8
MS02	805104	BB	8	19	303	7	2057	1	43	29		B	0	31.0	22.4	9	3	3	31 41.1	80 20.8
MS02	805105	BB	8	20	064	2	1727	1	17	30		A	0	30.0	21.0	27	9	3	31 41.1	80 20.8
MS02	805106	BB	8	20	064	2	1727	1	17	30		A	0	30.0	21.0	27	9	3	31 41.1	80 20.8
MS02	805107	BB	8	20	064	2	1727	1	17	30		A	0	30.0	21.0	27	9	3	31 41.1	80 20.8
MS02	805108	BB	8	20	064	2	1757	1	22	30		A	0	32.0	19.6	22	9	3	31 41.1	80 20.8
MS02	805109	BB	8	20	064	2	1757	1	22	30		A	0	32.0	19.6	22	9	3	31 41.1	80 20.8
MS02	805134	BB	9	15	499	7	1739	1	22	30		B	0	31.0	19.6	22	20	3	31 41.1	80 20.8
MS02	805135	BB	9	16	499	7	1303	1	21	30		A	0	29.0	17.9	22	24	3	31 41.1	80 20.8
MS02	805136	BB	9	16	499	7	1351	1	23	30		A	0	29.0	20.0	22	24	3	31 41.1	80 20.8
MS03	800627	DP	8	21	506		1003	2	96	31		J	0	29.0	14.2			1	30 53.6	80 36.2
MS03	800628	DP	8	21	506		1215	1	78	31		B	0	34.0	14.2			1	30 53.6	80 35.5
MS03	800629	DP	8	21	300	7	1357	1	22	29	16.0	D	0	34.0	14.9			2	30 53.9	80 36.5
MS03	800630	DP	8	21	068	7	1415	1	10	29		D	0	34.0	14.9			2	30 53.9	80 36.5
MS03	800631	DP	8	21	498		1551	1	115	32		H	0	35.0	15.2	0	0	2	30 53.6	80 36.8
MS03	800632	DP	8	21	498		1821	1	32	34		C	0	35.0	14.9			1	30 54.0	80 35.6
MS03	800633	DP	8	21	070	1	1933	1	9	36		C	0	37.0	14.6	0	0	1	30 54.1	80 35.9
MS03	800634	DP	8	21	041	1	2251	4	38	35		G	0	34.0	13.9			1	30 53.9	80 36.5
MS03	800635	DP	8	21	041	1	2251	4	45	35		G	0	34.0	13.9			1	30 53.9	80 36.5
MS03	800636	DP	8	21	061	1	2257	4	51	35		G	0	34.0	13.9			1	30 53.8	80 36.4
MS03	800637	DP	8	21	061	0	2257	4	60	35		G	0	34.0	13.9			1	30 53.8	80 36.3
MS03	800638	DP	8	21	061	0	2257	4	73	35		G	0	34.0	13.9			1	30 53.7	80 36.2
MS03	800639	DP	8	21	061	0	2257	4	64	35		G	0	34.0	13.9			1	30 53.6	80 36.1

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS03	800640	DP	8	21	043	1	2303	4	15	35		G	0	34.0	13.9			1	30 53.8	80 36.2
MS03	800641	DP	8	21	043	1	2303	4	15	35		G	0	34.0	13.9			1	30 53.8	80 36.2
MS03	800642	DP	8	21	043	1	2303	4	15	35		G	0	34.0	13.9			1	30 53.8	80 36.2
MS03	800643	DP	8	22	070	1	51	2	13	35		J	0		13.5	22	4	1	30 54.0	80 36.0
MS03	800644	DP	8	22	070	1	145	2	8	35		J	0	30.0	13.9	22	4	1	30 53.7	80 36.3
MS03	800645	DP	8	22	070	1	321	2	11	35		J	0	30.0	13.9	22	6	2	30 53.8	80 36.3
MS03	800646	DP	8	22	069	1	515	2	8	35		J	0	30.0	13.2	22	5	1	30 53.8	80 36.7
MS03	800647	DP	8	22	069	1	539	2	7	35		J	0	30.0	13.2	22	5	1	30 53.8	80 36.2
MS03	800648	DP	8	22	067	2	603	2	4	35		J	0	30.0	13.5	22	5	1	30 54.0	80 36.1
MS03	800649	DP	8	22	067	1	621	2	2	35		J	0	30.0	13.5	22	5	1	30 54.0	80 36.3
MS03	800650	DP	8	22	074	1	945	3	47	36		J	0	30.0	13.2	22	5	1	30 54.3	80 36.2
MS03	800651	DP	8	22	074	1	951	3	54	36		J	0	30.0	13.2	22	5	1	30 54.1	80 36.2
MS03	800652	DP	8	22	041	1	951	3	60	36		J	0	30.0	13.2	22	5	1	30 54.1	80 36.2
MS03	800653	DP	8	22	041	1	951	3	67	36		J	0	30.0	13.2	22	5	1	30 53.9	80 36.2
MS03	800654	DP	8	22	061	0	951	3	73	35		J	0	30.0	13.2	22	5	1	30 53.9	80 36.2
MS03	800655	DP	8	22	061	1	957	3	81	35		J	0	30.0	13.2	22	5	1	30 53.7	80 36.2
MS03	800656	DP	8	22	061	0	957	3	90	35		J	0	30.0	13.2	22	5	1	30 53.6	80 36.2
MS03	800657	DP	8	22	061	0	957	3	97	35		J	0	30.0	13.2	22	5	1	30 53.6	80 36.3
MS03	800658	DP	8	22	043	0	1003	3	15	35		J	0	30.0	13.2	22	5	1	30 53.7	80 36.0
MS03	800659	DP	8	22	043	0	1003	3	15	35		J	0	30.0	13.2	22	5	1	30 53.7	80 36.0
MS03	800660	DP	8	22	043	1	1003	3	15	35		J	0	30.0	13.2	22	5	1	30 53.7	80 36.0
MS03	800661	DP	8	22	070	1	1303	1	18	34		C	0	34.0	13.5	22	3	2	30 53.8	80 35.9
MS03	800662	DP	8	22	070	1	1421	1	10	33		D	0	34.0	13.9	22	3	1	30 53.8	80 36.4
MS03	805123	BB	9	4	508	1	1615	1	16	34		C	0	30.0	27.8	9	24	3	30 54.3	80 36.2
MS03	805124	BB	9	4	064	2	1645	1	18	35		C	0	29.0	27.4	9	20	3	30 54.3	80 36.2
MS03	805125	BB	9	4	064	2	1645	1	18	35		C	0	29.0	27.4	9	20	3	30 54.3	80 36.2
MS03	805126	BB	9	4	064	2	1715	1	18	35		C	0	29.0	27.1	9	20	3	30 54.3	80 36.2
MS03	805127	BB	9	4	064	2	1715	1	18	35		C	0	29.0	27.1	9	20	3	30 54.3	80 36.2
MS03	805128	BB	9	4	064	2	1715	1	18	35		C	0	30.0	26.1	9	20	3	30 54.3	80 36.2
MS03	805129	BB	9	4	303	7	1739	1	51	36		C	0	30.0	26.1	9	20	3	30 54.3	80 36.2
MS03	805130	BB	9	5	499	7	1215	1	18	35		B	0	28.0	26.8	9	24	3	30 54.3	80 36.2
MS03	805131	BB	9	5	499	7	1245	1	15	35		B	0	28.0	26.8	9	24	3	30 54.3	80 36.2
MS03	805132	BB	9	5	066	2	1245	1	15	35		B	0	28.0	26.8	9	24	3	30 54.3	80 36.2
OS01	800746	DP	9	11	506		1503	1	80	61		C	0	31.0	16.9	4	5	2	31 31.2	79 45.1
OS01	800747	DP	9	11	498		1733	1	70	60		E	0	34.0	17.3	4	8	2	31 31.5	79 44.9
OS01	800748	DP	9	11	300	7	1927	1	39	57	21.0	C	0	30.0	17.3	7	6	2	31 31.7	79 44.9
OS01	800749	DP	9	11	068	7	1945	1	8	57		C	0	30.0	17.3	7	6	2	31 31.7	79 44.9
OS01	800750	DP	9	11	058	2	2109	1	0	64		C	0	29.0	16.9	11	6	2	31 31.5	79 44.6
OS01	800751	DP	9	11	058	1	2115	1	0	60		C	0	29.0	16.9	11	6	2	31 31.6	79 44.8
OS01	800752	DP	9	11	058	2	2133	1	0	61		C	0	34.0	16.9	11	6	2	31 31.6	79 44.8
OS01	800753	DP	9	11	058	2	2145	1	0	61		C	0	33.0	16.9	11	8	2	31 31.4	79 44.8
OS01	800754	DP	9	11	058	2	2157	1	0	61		C	0	36.0	16.9	11	8	2	31 31.6	79 44.8
OS01	800755	DP	9	11	041	1	2233	4	97	65		B	0	34.0	16.9	11	8	2	31 31.8	79 44.4
OS01	800756	DP	9	11	041	0	2233	4	22	65		B	0	34.0	16.9	11	8	2	31 31.8	79 44.5
OS01	800757	DP	9	11	061	1	2233	4	106	65		B	0	34.0	16.9	11	8	2	31 31.7	79 44.6

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
OS01	800758	DP	9	11	061	1	2239	4	61	65		B	0	34.0	16.9	11	8	2	31 31.7	79 44.7
OS01	800759	DP	9	11	061	1	2239	4	70	65		B	0	34.0	16.9	11	8	2	31 31.6	79 44.7
OS01	800760	DP	9	11	061	1	2239	4	49	65		B	0	34.0	16.9	11	8	2	31 31.5	79 44.8
OS01	800761	DP	9	11	043	1	2257	4	17	65		C	0	31.0	16.9	11	8	2	31 31.8	79 44.6
OS01	800762	DP	9	11	043	0	2257	4	17	65		C	0	31.0	16.9	11	8	2	31 31.8	79 44.6
OS01	800763	DP	9	11	043	1	2257	4	17	64		C	0	31.0	16.9	11	8	2	31 31.8	79 44.6
OS01	800764	DP	9	12	069	1	103	2	11	59		J	0	29.0	16.9	14	6	2	31 31.7	79 44.6
OS01	800765	DP	9	12	069	1	139	2	11	61		J	0	29.0	17.3	7	8	2	31 31.7	79 44.5
OS01	800766	DP	9	12	070	1	251	2	13	66		J	0	28.0	17.3	7	8	2	31 31.8	79 44.4
OS01	800767	DP	9	12	070	1	521	2	11	59		J	0	28.0	17.3	7	8	2	31 32.0	79 44.2
OS01	800768	DP	9	12	070	1	739	2	11	59		J	0	28.0	16.6	7	6	3	31 32.1	79 44.1
OS01	800769	DP	9	12	041	0	957	3	49	60		J	0	28.0	16.6	7	6	2	31 31.6	79 44.8
OS01	800770	DP	9	12	041	0	957	3	54	60		J	0	28.0	16.6	7	6	2	31 31.6	79 44.7
OS01	800771	DP	9	12	061	0	1003	3	58	60		J	0	28.0	16.6	7	6	2	31 31.7	79 44.6
OS01	800772	DP	9	12	061	0	1003	3	63	60		J	0	28.0	16.6	7	6	2	31 31.7	79 44.6
OS01	800773	DP	9	12	061	0	1009	3	68	60		J	0	28.0	16.6	7	6	2	31 31.8	79 44.5
OS01	800774	DP	9	12	061	0	1009	3	74	60		J	0	28.0	16.6	7	6	2	31 31.9	79 44.4
OS01	800775	DP	9	12	043	0	1021	3	15	64		G	0	28.0	16.9	7	6	2	31 31.2	79 44.7
OS01	800776	DP	9	12	043	0	1021	3	15	64		G	0	28.0	16.9	7	6	2	31 31.2	79 44.7
OS01	800777	DP	9	12	043	0	1021	3	15	64		G	0	28.0	16.9	7	6	2	31 31.2	79 44.7
OS01	800778	DP	9	12	070	1	1233	1	11	68		E	0	29.0	17.6	4	8	3	31 32.0	79 44.1
OS01	800779	DP	9	12	070	1	1333	1	11	64		C	0	29.0	17.6	4	8	3	31 31.7	79 44.4
OS01	800780	DP	9	12	070	1	1457	1	11	61		D	0	30.0	18.3	4	9	3	31 32.0	79 44.4
OS01	800781	DP	9	12	072	2	1627	1	4	60		F	0	29.0	18.6	4	9	4	31 31.9	79 44.3
OS01	800782	DP	9	12	072	2	1639	1	3	59		F	0	29.0	18.6	4	9	4	31 31.7	79 44.6
OS02	800700	DP	8	24	506		539	2	31	54		J	0	28.0	17.9	4	6	3	31 8.2	79 54.8
OS02	800701	DP	8	24	506		709	2	60	54		J	0	28.0	17.9	9	8	3	31 7.1	79 55.1
OS02	800702	DP	8	24	506		921	2	51	58		J	0	28.0	17.3	9	6	3	31 7.6	79 54.8
OS02	800703	DP	8	24	300	7	1051	3	35	55	16.0	G	0	28.0	17.6	9	7	4	31 8.1	79 54.5
OS02	800704	DP	8	24	068	7	1109	3	14	55		G	0	28.0	17.6	9	7	4	31 8.1	79 54.5
OS02	800705	DP	8	24	506		1303	1	151	54		G	0	28.0	17.9	4	9	3	31 7.1	79 55.3
OS02	800706	DP	8	24	498		1651	1	52	54		H	0	28.0	19.0	4	8	4	31 7.4	79 55.1
OS02	800707	DP	8	24	498		1909	1		56		F	0	27.0	18.3	4	11	4	31 6.9	79 55.1
OS02	800708	DP	8	24	498		2003	1	14	57		F	0	27.0	18.3	4	11	4	31 7.4	79 54.9
OS02	800709	DP	9	10	300	7	1151	1	29	49	31.0	D	0	28.0	17.6	9	5	3	31 7.6	79 55.3
OS02	800710	DP	9	10	068	7		1		49		D	0	28.0	17.6	9	5	3	31 7.6	79 55.3
OS02	800711	DP	9	10	506		1339	1	68	56		E	0	30.0	17.9	9	6	3	31 7.3	79 55.0
OS02	800712	DP	9	10	498		1615	1		54		E	0	30.0				3	0.0	0.0
OS02	800713	DP	9	10	498		1839	1	23	50		E	0	33.0	17.6	4	3	3	31 7.3	79 55.3
OS02	800714	DP	9	10	498		1921	1	35	48		C	0	34.0	17.3	4	3	3	31 7.4	79 55.4
OS02	800715	DP	9	10	498		2027	1	49	57		C	0	33.0	16.6	4	3	2	31 7.9	79 54.7
OS02	800716	DP	9	10	041	2	2233	4	50	46		C	0	34.0	16.3	14	5	3	31 8.1	79 55.2
OS02	800717	DP	9	10	041	0	2233	4	58	46		C	0	34.0	16.3	14	5	3	31 8.2	79 55.0
OS02	800718	DP	9	10	061	0	2233	4	66	46		C	0	34.0	16.3	14	5	3	31 8.3	79 54.9
OS02	800719	DP	9	10	061	1	2239	4	71	52		C	0	34.0	16.3	14	5	3	31 8.4	79 54.9

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
0S02	800720	DP	9	10	061	1	2239	4	75	52		C	0	34.0	16.3	14	5	3	31 8.6	79 54.8
0S02	800721	DP	9	10	061	1	2245	4	82	52		C	0	34.0	16.3	14	5	3	31 8.6	79 54.8
0S02	800722	DP	9	10	043	0	2251	4	20	48		C	0	32.0	15.9	14	3	2	31 8.4	79 54.9
0S02	800723	DP	9	10	043	0	2251	4	20	48		C	0	32.0	15.9	14	3	2	31 8.4	79 54.9
0S02	800724	DP	9	10	043	0	2251	4	20	48		C	0	32.0	15.9	14	3	2	31 8.4	79 54.9
0S02	800725	DP	9	11	506		133	2	92	54		J	0	29.0	15.9	9	5	2	31 7.2	79 55.1
0S02	800726	DP	9	11	069	1	409	2	9	55		J	0	28.0	16.6	9	3	2	31 9.0	79 54.5
0S02	800727	DP	9	11	069	1	445	2	12	55		J	0	29.0	16.6	9	3	2	31 8.6	79 54.6
0S02	800728	DP	9	11	058	2	545	2	0	50		J	0	29.0	15.9	9	3	2	31 7.3	79 55.1
0S02	800729	DP	9	11	058	0	557	2	0	51		J	0	29.0	15.9	9	3	2	31 7.5	79 55.1
0S02	800730	DP	9	11	058	2	603	2	0	51		J	0	29.0	15.9	9	3	2	31 7.5	79 55.1
0S02	800731	DP	9	11	058	0	609	2	0	51		J	0	29.0	15.9	9	3	2	31 7.7	79 55.0
0S02	800732	DP	9	11	058	2	615	2	0	56		J	0	29.0	15.9	9	3	2	31 7.7	79 55.0
0S02	800733	DP	9	11	058	2	627	2	0	55		J	0	29.0	15.9	9	4	2	31 7.9	79 55.0
0S02	800734	DP	9	11	058	2	639	2	0	55		J	0	29.0	15.9	9	4	2	31 8.0	79 54.9
0S02	800735	DP	9	11	072	2	721	2	4	55		J	0	29.0	15.9	9	4	2	31 7.6	79 55.0
0S02	800736	DP	9	11	072	2	745	2	6	54		J	0	28.0	15.9	9	4	2	31 8.0	79 54.9
0S02	800737	DP	9	11	041	1	951	3	56	54		J	0		15.9	9	5	2	31 8.2	79 54.9
0S02	800738	DP	9	11	041	1	951	3	67	54		J	0		15.9	9	5	2	31 8.3	79 54.9
0S02	800739	DP	9	11	061	0	951	3	104	54		J	0		15.9	9	5	2	31 8.5	79 55.0
0S02	800740	DP	9	11	061	0	957	3	94	54		J	0		15.9	9	5	2	31 8.6	79 54.9
0S02	800741	DP	9	11	061	0	957	3	83	54		J	0		15.9	9	5	2	31 8.7	79 54.9
0S02	800742	DP	9	11	061	1	957	3	74	54		J	0		15.9	9	5	2	31 8.8	79 54.9
0S02	800743	DP	9	11	043	0	1015	3	16	54		J	0		15.9	9	5	2	31 8.3	79 54.8
0S02	800744	DP	9	11	043	0	1015	3	16	54		J	0		15.9	9	5	2	31 8.3	79 54.8
0S02	800745	DP	9	11	043	0	1015	3	16	54		J	0		15.9	9	5	2	31 8.3	79 54.8
0S03	800663	DP	8	22	506		2015	1	28	54		H	0	36.0	13.9	9	1	2	30 25.1	80 12.8
0S03	800664	DP	8	22	506		2209	1	35	62		D	0	33.0	13.2	9	4	2	30 25.9	80 12.4
0S03	800665	DP	8	22	506		2345	1	5	56		C	0	30.0	13.2	11	5	2	30 24.5	80 12.8
0S03	800666	DP	8	23	506		103	2	99	61		J	0	30.0	13.9	11	5	2	30 24.9	80 12.4
0S03	800667	DP	8	23	506		339	2	54	56		J	1	26.0	15.2	14	4	2	30 24.6	80 12.9
0S03	800668	DP	8	23	506		557	2	32	61		J	0	28.0	14.9	18	1	2	30 25.4	80 12.5
0S03	800669	DP	8	23	300	7	657	2	39	58	20.0	J	0	29.0	14.6	27	3	2	30 26.9	80 12.2
0S03	800670	DP	8	23	068	7	739	2	16	58		J	0	29.0	14.6	27	3	2	30 26.9	80 12.2
0S03	800671	DP	8	23	069	1	833	2	10	64		J	0	29.0	14.6	36	3	2	30 25.9	80 12.3
0S03	800672	DP	8	23	069	1	909	2	8	58		J	0		14.6	36	3	2	30 26.9	80 12.2
0S03	800673	DP	8	23	074	3	957	3		58		J	0	28.0	15.2	4	3	2	30 27.1	80 12.2
0S03	800674	DP	8	23	074	3	957	3		58		J	0	28.0	15.2	4	3	2	30 27.0	80 12.2
0S03	800675	DP	8	23	041	3	1003	3		58		J	0	28.0	15.2	4	3	2	30 27.0	80 12.2
0S03	800676	DP	8	23	041	1	1003	3	307	58		J	0	28.0	15.2	4	3	2	30 27.0	80 12.2
0S03	800677	DP	8	23	061	3	1003	3		58		J	0	28.0	15.2	4	3	2	30 27.0	80 12.2
0S03	800678	DP	8	23	061	3	1009	3		58		J	0	28.0	15.2	4	3	2	30 26.9	80 12.1
0S03	800679	DP	8	23	061	0	1009	3	37	58		J	0	28.0	15.2	4	3	2	30 27.0	80 12.0
0S03	800680	DP	8	23	061	0	1015	3	41	58		J	0	28.0	15.2	4	3	2	30 26.9	80 12.0
0S03	800681	DP	8	23	043	0	1015	3	15	58		J	0	28.0	15.2	4	3	2	30 27.1	80 11.7

Appendix 2 (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
0S03	800682	DP	8	23	043	0	1015	3	15	58		J	0	28.0	15.2	4	3	2	30 27.1	80 11.7
0S03	800683	DP	8	23	043	0	1015	3	15	58		J	0	28.0	15.2	4	3	2	30 27.1	80 11.7
0S03	800685	DP	8	23	506		1309	1	100	61		G	0	30.0	16.6	4	6		30 25.1	80 12.7
0S03	800686	DP	8	23	498		1651	1	18	60		H	0	30.0	17.9	4	9	4	30 25.1	80 12.5
0S03	800687	DP	8	23	498		1803	1	17	65		I	0	31.0	17.9	9	6	4	30 26.3	80 12.2
0S03	800688	DP	8	23	058	0	1933	1	0	63		I	1	29.0	17.3	9	6	4	30 25.6	80 12.5
0S03	800689	DP	8	23	058	0	1939	1	0	54		I	0	29.0	17.3	9	6	4	30 25.9	80 12.6
0S03	800690	DP	8	23	058	2	2003	1	0	64		I	0	30.0	17.3	9	6	3	30 26.0	80 12.3
0S03	800691	DP	8	23	058	2	2015	1	0	59		I	0	29.0	17.3	9	6	3	30 26.4	80 12.4
0S03	800692	DP	8	23	058	2	2033	1	0	56		I	0	30.0	17.3	9	6	3	30 27.0	80 12.2
0S03	800693	DP	8	23	058	0	2103	1	0	58		I	1	27.0	16.9	9	6	3	30 26.2	80 12.4
0S03	800694	DP	8	23	058	2	2121	1	0	58		I	0	29.0	16.9	9	9	4	30 26.8	80 12.2
0S03	800695	DP	8	23	058	2	2133	1	0	58		I	0	28.0	16.9	9	9	4	30 27.1	80 12.2
0S03	800696	DP	8	23	067	3	2227	1		61		G	0	29.0	16.9	9	11	4	30 26.2	80 12.4
0S03	800697	DP	8	23	067	0	2303	1	1	62		F	0	28.0	17.3	9	10	4	30 26.1	80 12.2
0S03	800698	DP	8	23	067	2	2315	1	1	65		E	0	28.0	17.3	9	10	4	30 26.3	80 12.0
0S03	800699	DP	8	23	067	3	2345	1		58		D	0	28.0	17.3	9	10	4	30 26.9	80 12.2

Appendix 3. Temperature readings (°C) obtained from reversing and bucket thermometers at live bottom stations sampled during winter and summer cruises, 1980.

	IS01		IS02		IS03		MS01		MS02		MS03		OS01		OS02		OS03	
Depth (m)	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
0	14.66	28.66	12.28	28.49	14.07	28.25	15.50	27.84	16.07	29.14	15.72	28.92	20.30	28.50	19.95	28.08	21.54	29.22
10	14.66	25.61	12.28	28.39	14.46	26.14	15.44	26.71	16.08	28.86	15.32	28.63	18.45	28.48	19.96	28.07	21.63	28.60
14	-	-	-	28.40	14.47	-	-	-	-	-	-	-	-	-	-	-	-	-
16	14.59	-	-	-	-	-	15.36	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	23.31	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	17.43	-	-	25.16	-	-
20	-	-	-	-	-	-	-	24.88	16.06	23.55	15.56	21.66	-	27.90	19.90	-	21.44	23.96
24	-	-	-	-	-	-	14.88	-	-	23.51	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	21.45	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	16.64	-	-	22.78	-	19.28
30	-	-	-	-	-	-	-	-	-	-	15.03	-	-	25.26	19.83	-	20.16	-
33	-	-	-	-	-	-	-	-	-	-	15.02	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.94	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	16.21	-	-	-	-	15.77
40	-	-	-	-	-	-	-	-	-	-	-	-	-	23.19	19.08	-	18.91	-
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.88	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-	16.06	-	-	18.11	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.15
50	-	-	-	-	-	-	-	-	-	-	-	-	-	16.94	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-	16.09	-	-	-	-	-

Appendix 4. Salinity measurements (°/oo) obtained from hydrocasts at live bottom stations sampled during winter and summer cruises, 1980.

	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		OSO2		OSO3	
Depth (m)	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
0	36.08	35.24	33.94	36.17	33.29	35.87	36.46	36.33	36.38	36.12	34.80	36.24	36.31	35.67	36.44	35.77	36.19	35.10
10	36.05	35.96	33.95	36.15	34.04	36.18	36.49	36.29	36.42	36.01	34.89	36.24	36.27	35.71	36.40	35.76	36.35	35.71
14	-	-	-	36.17	34.04	-	-	-	-	-	-	-	-	-	-	-	-	-
16	36.05	-	-	-	-	-	36.45	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	36.19	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	36.47	-	-	35.95	-	-
20	-	-	-	-	-	-	-	36.24	36.40	36.08	35.12	36.21	-	35.87	36.32	-	36.32	36.04
24	-	-	-	-	-	-	36.44	-	-	36.23	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	36.21	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	36.43	-	-	35.95	-	35.79
30	-	-	-	-	-	-	-	-	-	-	35.09	-	-	36.42	36.35	-	36.39	-
33	-	-	-	-	-	-	-	-	-	-	35.07	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.03	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	36.40	-	-	-	-	35.84
40	-	-	-	-	-	-	-	-	-	-	-	-	-	36.42	36.37	-	36.46	-
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.34	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-	36.45	-	-	36.07	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.88
50	-	-	-	-	-	-	-	-	-	-	-	-	-	36.25	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-	36.46	-	-	-	-	-

Appendix 5. Dissolved oxygen measurements (ml l^{-1}) obtained from hydrocasts at live bottom stations sampled during winter and summer cruises, 1980. Values in ( ) represent the % saturation values for surface and bottom samples.

	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		OSO2		OSO3	
Depth (m)	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
0	5.68 (99)	4.61 (105)	6.73 (112)	4.66 (105)	5.21 (90)	4.50 (100)	5.77 (102)	4.59 (102)	5.47 (98)	4.55 (103)	6.14 (109)	4.21 (95)	5.25 (101)	4.49 (101)	5.33 (103)	4.75 (106)	5.60 (111)	4.57 (104)
10	5.70	4.65 (101)	6.15 (102)	4.64	5.75	4.19	5.75	4.62	5.60	4.60	5.98	4.19	5.25	4.52	5.21	4.80	5.47	4.69
14	-	-	-	4.64 (105)	5.46 (95)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	5.70 (99)	-	-	-	-	-	5.75	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	3.94 (80)	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	5.32	-	-	5.06	-	-
20	-	-	-	-	-	-	-	4.73 (101)	5.39 (96)	4.76	5.85	3.89	-	4.62	5.18	-	5.45	5.18
24	-	-	-	-	-	-	5.74 (101)	-	-	4.75 (98)	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	3.81 (76)	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	5.32	-	-	5.04	-	4.80
30	-	-	-	-	-	-	-	-	-	-	5.86	-	-	4.62	ND	-	5.05	-
33	-	-	-	-	-	-	-	-	-	-	5.8[illegible] (104)	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.70	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	5.25	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	-	4.24	4.77	-	4.72 (89)	4.12
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.74 (89)	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-	5.32	-	-	4.42 (82)	-	-

Appendix 5 (Continued)

	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		OSO2		OSO3	
Depth (m)	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.05 (71)
50	-	-	-	-	-	-	-	-	-	-	-	-	-	3.63 (66)	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-	5.18 (93)	-	-	-	-	-

Appendix 6. Light transmission measurements (%) obtained using the transmissometer and Secchi disc readings from live bottom stations during winter and summer cruises, 1980.

Depth (m)	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		OSO2		OSO3	
	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
0	71.9	49.0	62.5	-	38.0	-	85.5	86.5	84.0	82.2	69.0	72.5	75.5	86.5	65.5	74.5	80.0	90.0
10	70.4	55.0	62.5	42.3	50.4	82.1	85.5	86.0	84.5	82.2	66.0	70.5	68.5	84.0	66.0	76.0	80.5	76.2
14	-	-	-	42.0	53.5	-	-	-	-	-	-	-	-	-	-	-	-	-
16	70.0	-	-	-	-	76.8	86.0	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	78.5	84.5	83.0	66.0	74.5	58.0	84.0	63.0	64.0	81.0	61.5
24	-	-	-	-	-	-	88.0	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	76.0	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	67.0	-	60.0	82.0	66.5	58.0	80.0	61.5
33	-	-	-	-	-	-	-	-	-	-	66.0	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	63.5	82.3	66.0	66.5	83.5	68.0
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.5	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-	63.0	89.0	-	78.0	-	86.2
53	-	-	-	-	-	-	-	-	-	-	-	-	-	90.0	-	-	-	-
57	-	-	-	-	-	-	-	-	-	-	-	-	64.0	-	-	-	-	-
SECCHI DISC LIGHT PENETRATION (m)																		
	8.0	7.5	6.0	no data	11.0	6.0	18.0	no data	14.0	14.0	16.0	10.0	21.0	11.0	31.0	13.0	20.0	12.0

Appendix 7. Data format used to facilitate analysis of epibenthic communities at live bottom stations.

Card	Column	Item
1	1-6	Collection Number
	7	Card type (always 1)
2	1-6	Collection Number
	7	Card type (always 2)
	15-18	Species code
	19	Questionable identification noted
	21-25	Total number (if available)
	26-31	Total weight (if available) - kg
	32-35	Bottom temperature - ^{o}C
	36	Estimate code
	37-39	Gear code
	40-43	Station designation
	47-48	Day
	49-50	Month
	51-52	Year
	53-55	Depth (m)
	56-80	Scientific name

Appendix 8. Phylogenetic list of invertebrate taxa collected by dredge at each station during winter (w) and summer (s), 1980.

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Porifera									
Demospongea									
Demospongea A	-	-	-	-	w	-	-	-	-
Demospongea B	-	-	-	-	-	-	w,s	-	-
Demospongea D	-	w	-	-	-	-	-	-	-
Demospongea - Ceractinomorpha									
Keratosa									
Keratosa B	-	-	w	-	-	-	-	-	-
Keratosa C	-	s	-	-	-	-	-	-	-
Keratosa D	-	-	-	-	s	s	s	-	-
Spongiidae									
Aplysina fistularis	w	s	w,s	s	w,s	s	-	-	-
Ircinia campana	-	w,s	w,s	s	w,s	w,s	s	-	-
Ircinia felix	w	s	s	-	w	-	-	-	-
Ircinia ramosa	-	w,s	w,s	-	w	w	-	-	w
Ircinia strobilina	-	-	-	s	w	-	s	-	w
Haplosclerida									
Haplosclerida D	-	-	w	-	-	w	-	-	-
Haplosclerida E	-	-	-	-	-	-	-	w	-
Adociidae									
Sigmadocia caerula	-	-	-	-	-	-	s	-	-
Desmacidonidae									
Xytopsues griseus	-	-	s	-	s	-	-	-	-
Haliclonidae									
Haliclona oculata	w	w,s	w,s	-	s	-	-	-	-
Haliclona sp. B	-	w	-	-	-	-	-	-	-
Poecilosclerida									
Poecilosclerida A	s	w,s	-	-	s	s	-	-	-
Poecilosclerida B	-	s	w,s	-	s	-	-	-	w
Poecilosclerida C	-	-	-	-	-	-	-	-	w
Poecilosclerida D	-	-	-	-	-	-	-	-	w
Poecilosclerida E	-	-	-	-	-	-	-	-	w
Poecilosclerida H	-	-	-	-	-	s	s	-	-
Amphilectidae									
Tenaciella obliqua	-	-	w	-	-	-	-	-	-
Toxema tubulata	-	-	-	-	-	-	s	-	-
Microcionidae									
Microciona spinosa	-	-	-	-	-	-	-	-	w
Microcionidae A	-	-	-	-	-	-	-	-	w
Microcionidae D	-	-	-	-	-	-	s	-	-
Pandaros acanthifolium	-	w	w,s	-	-	s	-	-	-
Thalysias juniperina	w	w	-	-	-	-	-	-	w
Plocamiidae									
Holoplocamia sp. A	-	-	-	-	-	-	s	-	-
Tedaniidae									
Lissodendoryx isodictyalis	-	-	-	-	-	w	-	-	-
Lissodendoryx sigmata	-	-	-	-	-	w	-	-	-
Lissodendoryx sp. B	-	-	-	-	-	-	s	-	-
Tedania ignis	s	s	s	-	-	s	s	-	-
Halichondriida									
Halichondriida F	-	-	-	-	-	-	s	-	-
Halichondriidae									
Ciocalapata gibbsi	w,s	w	w,s	-	w	-	-	-	w
Halichondria bowerbanki	w,s	w	w,s	-	-	-	s	-	w
Demospongea - Tetractinomorpha									
Axinellida									
Axinellidae									

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Axinella bookhouti	-	-	w	-	-	-	-	-	w
Axinellidae A	-	-	-	-	-	-	s	-	-
Homaxinella rudis	-	s	w,s	-	-	-	-	-	-
Homaxinella waltonsmithi	w,s	w,s	w,s	-	-	-	-	-	-
Teichaxinella morchella	-	-	-	-	-	w	-	-	-
Demoxyidae									
Higginsia sp. A	-	-	w	-	-	-	-	-	-
Euryponidae									
Tricheurypon sp.	s	-	-	-	-	-	-	-	-
Raspaliidae									
Hemecryon pearsei	-	s	s	-	s	-	-	-	-
Hadromerida									
Hadromerida A	w	w	w,s	-	-	s	-	-	w
Hadromerida B	-	-	w	-	-	-	-	-	-
Hadromerida C	-	-	-	-	-	-	s	-	-
Hadromerida G	-	-	-	-	-	-	-	-	w
Hadromerida H	-	-	-	-	-	-	-	-	w
Clionidae									
Cliona caribbaea	w	w	w,s	-	w,s	w,s	-	-	w
Cliona sp. A	-	-	-	-	-	-	-	-	w
Cliona vastifica	-	-	-	-	-	-	-	-	w
Placospongiidae									
Placospongia melobesioides	-	-	-	-	-	-	-	-	w
Spirastrellidae									
Anthosigmella varians	s	s	-	-	-	-	-	-	-
Spechiospongia vesparium	w,s	w	w,s	-	-	s	-	-	-
Spirastrella coccinea	-	w	-	-	-	-	-	-	-
Spirastrellidae A	w	-	s	-	-	-	-	-	-
Spirastrellidae B	w	-	-	-	-	-	-	-	-
Timea mixta	w	-	-	-	-	-	-	-	-
Choristida									
Choristida A	-	-	w	-	-	-	-	-	-
Choristida B	-	-	-	-	-	-	-	-	w
Choristida C	-	-	-	-	-	-	-	-	w
Choristida - Astrophorina									
Ancorinidae									
Myriastra fibrosa	w	w	-	-	-	w	-	w	-
Myriastra kallitetilla	-	-	-	-	-	-	-	-	w
Myriastra sp. A	-	-	s	-	-	-	-	-	-
Choristida - Spirophorina									
Craniellidae									
Cinachyra alloclada	w	-	s	-	-	w	-	-	-
Cinachyra kuekenthali	-	w,s	-	-	-	-	s	-	-
Craniellidae A	-	-	-	-	-	-	-	-	w
Craniellidae B	-	-	-	-	-	-	-	-	w
Choristida - Chondrosiina									
Chondrillidae									
Chondrilla nucula	-	s	-	-	-	-	-	-	-
Chondrosiidae									
Chondrosia collectrix	-	-	w	-	-	-	-	-	w
Calcarea									
Leuconia aspera	s	-	-	-	-	s	-	-	-
Calcarea - Calcinea									
Clathrinida									
Clathrinidae									
Clathrina coriacea	w	w	-	-	w	-	w	w	w
Calcarea - Calcaronea									

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Sycettida									
Sycettidae									
Scypha barbadensis	-	w	-	-	-	-	w	-	w
Cnidaria									
Scyphozoa									
Coronatae									
Stephanoscyphus sp.	-	-	-	s	s	w,s	w,s	w,s	w,s
Hydrozoa									
Anthomedusa/Athecata									
Bougainvilliidae									
Bimeria humilis	s	s	-	w,s	w,s	w	w	-	-
Cladocorynidae									
Cladocoryne floccosa	-	-	-	-	w	-	-	-	-
Clavidae									
Turritopsis nutricula	w	s	-	-	w	s	-	-	-
Eudendriidae									
Eudendrium carneum	w	-	-	s	w	-	-	-	-
Eudendrium ramosum	s	s	-	-	-	-	-	-	-
Eudendrium sp.	w	-	w,s	-	-	s	w,s	w	-
Eudendrium tenellum	-	-	-	-	-	-	s	w	w
Halocordylidae									
Halocordyle disticha	w	s	s	-	-	-	-	-	-
Hydractiniidae									
Clavactinia sp.	-	-	-	-	-	-	s	-	-
undetermined Hydractiniidae	s	-	-	-	-	-	-	-	-
Tubulariidae									
Ectopleura dumortieri	-	-	w	-	w	w,s	-	-	-
Ectopleura sp.	w	w	-	-	-	-	-	-	-
Zancleidae									
Zanclea costata	-	-	-	-	-	-	w	-	-
Leptomedusae/Thecata									
Campanulariidae									
Campanularia hincksii	-	-	-	w,s	w,s	w,s	w,s	w	w
Clytia cylindrica	w,s	w,s	w	w,s	w	w,s	w,s	-	w
Clytia fragilis	w	w,s	-	-	w	w,s	w	w	-
Clytia paulensis	-	-	-	-	-	-	s	-	-
Clytia sp.	-	-	-	-	-	w	-	w	-
Obelia dichotoma	w,s	w	w	w	w	w	w,s	w	-
Obelia sp.	-	-	-	w	-	-	-	-	-
undetermined Campanulariidae	-	-	-	-	-	-	-	-	w
Campanulinidae									
Campanulina sp.	-	-	-	-	-	-	-	w	-
Haleciidae									
Halecium dysymmetrum	-	s	-	-	-	-	-	-	-
Halecium sp.	w	-	w,s	-	w	w,s	w,s	w	w,s
Halecium sp. A	w	-	-	-	-	-	-	-	-
Halecium tenellum	-	-	-	s	-	-	w,s	w	w,s
Lafoeidae									
Filellum serratum	-	-	-	-	w	s	w,s	w	w,s
Hebella scandens	-	w,s	-	s	w,s	s	w,s	w	w
Hebella sp.	-	-	-	-	-	-	-	-	w
Hebella venusta	-	-	-	s	w,s	w,s	w	-	-
Scandia mutabilis	w,s	-	-	s	s	w,s	w	-	-
Laodiceidae									
Modeeria rotunda	-	-	-	-	-	-	s	-	-
Plumulariidae									
Aglaophenia allmani	-	-	-	s	-	w,s	-	-	w
Aglaophenia elongata	-	-	-	-	-	-	w	-	-
Aglaophenia latecarinata	-	-	-	s	s	w,s	-	-	w
Aglaophenia rigida	w	-	-	-	-	-	-	-	-
Aglaophenia sp.	-	w	-	-	w	w	-	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Aglaophenia trifida	s	-	-	s	w,s	w	w,s	-	-
Antennella secundaria	-	-	-	-	-	-	w	w,s	-
Gymnangium sinuosum	-	-	-	-	-	-	s	-	w
Halopteris clarkei	-	-	-	-	-	-	s	-	w
Halopteris sp.	-	-	-	w	-	-	w	-	w
Monostaechas quadridens	w,s	w,s	s	s	w,s	w,s	-	-	w
Nemertesia simplex	-	-	-	-	-	-	s	w	w
Plumularia margaretta	-	-	-	s	-	-	-	-	-
Plumularia setacea	-	-	-	-	-	w,s	-	w	w
Plumularia sp.	-	-	-	-	w	-	-	w	-
Schizotricha tenella	-	-	s	-	-	-	-	-	-
Sertulariidae									
Diphasia tropica	-	-	-	-	-	s	-	w	-
Dynamena cornicina	w,s	w,s	s	w,s	w,s	w,s	-	-	-
Dynamena dalmasi	-	-	-	-	-	-	w,s	w	w
Dynamena quadridentata	w,s	w	s	w,s	w	w	-	-	w
Salacia desmoides	-	-	-	-	-	-	w,s	w	w
Sertularella areyi	-	-	-	-	-	-	w,s	-	-
Sertularella conica	w	-	-	-	w	s	-	-	-
Sertularella gayi	-	-	s	s	w	s	-	-	w,s
Sertularella pinnigera	-	-	-	-	-	s	-	-	-
Sertularia marginata	w	-	-	s	w,s	w,s	-	-	w
Sertularia plumulifera	w	-	-	w	w	w	w,s	w	-
Sertularia stookeyi	w	s	-	s	-	-	-	-	-
Thyroscyphus marginatus	-	-	-	s	w,s	s	w	w	w
Syntheciidae									
Hincksella cylindrica	-	-	-	w,s	w,s	s	-	-	w
Synthecium tubitheca	-	-	-	s	w,s	w,s	-	-	w
Anthozoa - Octocorallia									
Telestacea									
Telestidae									
Telesto fruticulosa	w	w	w	-	w	-	w	-	-
Telesto sanguinea	w,s	w	-	s	-	-	w,s	-	-
Telesto sp.	-	-	s	-	-	s	-	-	-
Alcyonacea									
Nidaliidae									
Nidalia occidentalis	-	-	-	-	-	-	-	-	w
Gorgonacea									
Anthothelidae									
Diodogorgia sp.	-	-	-	-	-	-	-	-	w
Titanideum frauenfeldii	w,s	w,s	w,s	w,s	w,s	s	w,s	-	w
Ellisellidae									
Ellisella sp.	-	-	-	-	-	-	w,s	-	-
Gorgoniidae									
Leptogorgia setacea	-	w	-	-	-	-	-	-	-
Leptogorgia sp. A	-	-	-	-	-	s	-	-	-
Leptogorgia virgulata	w,s	w,s	w,s	s	-	-	-	-	-
Lophogorgia cardinalis	-	-	-	-	-	-	-	-	w
Lophogorgia hebes	w,s	w,s	w,s	s	w,s	s	w	-	-
Lophogorgia sp. A	-	s	-	-	-	-	-	-	-
Paramuriceidae									
Thesea sp.	-	-	-	s	w,s	w,s	w,s	-	w
Plexauridae									
Muricea pendula	-	-	-	-	w	s	-	-	-
Pennatulacea									
Virgulariidae									
Stylatula sp.	-	-	-	-	-	-	w	-	w
Anthozoa - Zoantharia									
Zoanthidea									
Epizoanthidae									
Epizoanthus americanus	w,s	w,s	w,s	-	w	-	w	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Actiniaria									
undetermined Actiniaria	w,s	w,s	-	w	w	w	w	w	-
Scleractinia - Faviina									
Faviidae									
Cladocora sp.	-	-	-	-	-	-	-	-	w
Solenastrea hyades	w	-	-	-	-	-	-	-	-
Oculinidae									
Oculina arbuscula	w	w,s	w	-	-	-	-	-	-
Oculina sp.	-	-	-	-	-	-	w,s	-	-
Rhizangiidae									
Astrangia astreiformis	-	-	-	-	w	-	-	-	-
Astrangia sp.	-	-	-	-	s	-	-	-	-
Phyllangia americana	-	w	w	-	w	-	-	-	w
Scleractinia - Caryophylliina									
undetermined Caryophylliidae	-	-	-	-	-	-	w	-	w
Scleractinia - Dendrophylliina									
Dendrophylliidae									
Balanophyllia floridana	-	-	-	-	-	-	s	-	w
Antipatharia									
Stichopathes sp.	-	-	-	-	-	-	-	-	w
undetermined Antipatharian	-	-	-	-	-	-	s	-	w
Mollusca									
Gastropoda - Prosobranchia									
Archaeogastropoda									
Cyclostrematidae									
Arene bairdii	-	-	-	-	-	-	-	-	w
Trochidae									
Calliostoma marionae	-	-	-	-	-	-	-	-	w
Mesogastropoda									
Crepidulidae									
Crepidula aculeata	w	s	w,s	-	s	-	-	-	-
Crepidula fornicata	w	-	-	-	-	-	-	-	-
Crepidula plana	-	-	-	-	-	-	-	-	w
Crucibulum striatum	-	-	-	-	-	s	-	-	-
Cymatiidae									
Distorsio constricta mcgintyi	-	-	-	-	-	-	-	-	w
Cypraeidae									
Cypraea cervus	-	-	-	-	-	s	-	-	-
Eratoidae									
Trivia maltbiana	-	-	-	-	-	-	-	-	w
Ovulidae									
Simnia acicularis	-	w	w	-	-	-	-	-	-
Simnia sp.	-	-	-	-	w	-	-	-	-
Stiliferidae									
Mucronalia nidorum	-	-	-	w	-	-	-	-	-
Turritellidae									
Vermicularia knorrii	-	-	-	-	-	-	-	-	w
Neogastropoda									
Buccinidae									
Colubraria lanceolata	-	-	-	-	-	-	-	-	w
Conidae									
Conus daucus	-	-	-	-	-	-	-	-	w
Conus delessertii	-	-	-	-	-	-	-	-	w
Muricidae									
Murex florifer dilectus	-	w	-	-	-	-	-	-	w
Murex fulvescens	-	-	-	-	s	s	-	-	-
Murex sp.	-	-	-	-	-	-	-	-	w
Thais haemastoma florida	-	s	-	-	-	-	-	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Nassariidae									
Nassarius albus	-	-	-	-	-	-	-	-	w
Gastropoda - Polyplacophora									
Neoloricata									
Chaetopleuridae									
Chaetopleura sp. A	-	-	-	-	-	-	-	-	w
Pelecypoda									
Arcoida									
Arcidae									
Anadara notabilis	-	-	-	-	-	-	-	-	w
Arca zebra	w	w,s	w,s	s	w,s	s	w,s	-	w
Barbatia candida	-	-	-	-	-	-	w	-	w
Mytiloida									
Mytilidae									
Botula fusca	-	-	-	-	-	-	-	-	w
Modiolus americanus	s	s	w,s	-	-	w	-	-	-
Musculus sp. A	-	-	-	-	-	-	-	-	w
Pterioida									
Pectinidae									
Chlamys benedicti	-	-	-	-	-	-	s	w	w
Pteriidae									
Pteria colymbus	w,s	w,s	w,s	-	w,s	-	s	-	-
Ostreina									
Ostreidae									
Ostrea equestris	-	-	-	-	s	-	-	-	-
Ostrea permolis	-	-	-	-	-	s	-	-	-
Veneroida									
Carditidae									
Pleuromeris tridentata	-	-	-	-	-	-	-	-	w
Chamidae									
Chama congregata	w	s	w	-	-	-	-	-	-
Chama macerophylla	-	-	-	-	-	s	-	-	-
Chama sp.	-	-	w	-	-	-	-	-	-
Pseudochama radians	-	s	-	-	-	-	-	-	-
Tellinidae									
Tellina sp. A	-	-	-	-	-	-	-	-	w
Veneridae									
Chione grus	-	-	-	-	-	-	-	w	-
Chione sp.	-	-	-	-	-	-	-	-	w
Callista eucymata	-	-	-	-	-	-	-	-	w
Gouldia cerina	-	-	-	-	-	-	-	-	w
Mercenaria campechiensis	-	-	-	-	-	-	-	-	w
Myoida									
Gastrochaenidae									
Gastrochaena hians	-	-	-	-	w	-	-	w	-
Hiatellidae									
Hiatella arctica	-	-	-	-	-	-	-	w	w
Pholadomyoida									
Lyonsiidae									
Lyonsia beana	-	-	s	-	-	-	-	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Cephalopoda									
Octopoda									
Octopodidae									
Octopus sp.	-	-	-	-	-	-	w	-	-
Arthropoda									
Crustacea - Cirripedia									
Acrothoracica									
Lithoglyptidae									
Kochlorine floridana	w,s	w,s	w,s	w	-	w,s	w,s	s	w,s
Thoracica - Lepadomorpha									
Scalpellidae									
Scalpellum diceratum	-	-	-	-	-	-	w,s	-	-
Scalpellum gibbum	-	-	-	-	-	-	w	-	-
Thoracica - Balanomorpha									
Archaeobalanidae									
Conopea galeata	w,s	w,s	w	-	w	-	-	-	-
Conopea merrilli	w,s	s	w,s	s	w,s	w,s	w,s	w	w
Balanidae									
Balanus calidus	-	-	s	-	-	-	-	-	-
Balanus trigonus	w,s	w,s	w,s	w,s	w,s	w,s	w,s	w	w,s
Balanus venustus	w,s	w,s	w,s	w	w	s	w	-	w,s
Crustacea - Malacostraca									
Stomatopoda									
Gonodactylidae									
Gonodactylus bredini	-	-	-	-	s	-	-	-	-
Decapoda - Dendrobranchiata									
Sicyonidae									
Sicyonia brevirostris	-	-	-	-	-	-	-	-	w
Decapoda - Pleocyemata - Caridea									
Alpheidae									
Alpheus formosus	-	-	-	-	-	-	-	-	w
Alpheus normanni	-	-	-	-	-	-	-	w	w
Synalpheus longicarpus	w	-	-	-	-	-	-	-	-
Synalpheus minus	-	w	w	-	-	-	-	w	-
Synalpheus sp.	-	-	-	-	-	-	-	-	w
Synalpheus townsendi	w,s	w	-	-	w	-	-	w	w
undetermined Alpheidae	-	-	-	-	-	-	-	-	w
Hippolytidae									
Thor manningi	-	-	-	-	-	-	-	-	w
Palaemonidae									
Periclimenaeus sp.	-	-	-	-	-	-	-	-	w
undetermined Palaemonidae	-	-	-	-	-	-	-	-	w
Decapoda - Pleocyemata - Palinura									
Scyllaridae									
Scyllarus chacei	-	-	-	-	-	-	-	-	w
Decapoda - Pleocyemata - Anomura									
Diogenidae									
Dardanus insignis	-	-	-	-	-	-	s	-	-
Dardanus fusosus	-	-	-	-	-	-	s	-	w
Paguristes holthuisi	-	-	-	-	-	-	-	-	w
Paguristes sp.	-	-	-	-	-	-	s	-	w
Paguristes triangulatus	-	-	-	-	-	-	s	-	-
Galatheidae									
Galathea rostrata	-	-	-	-	-	-	s	-	w
Munida pusilla	-	-	-	-	-	-	-	-	w

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Paguridae									
Pagurus carolinensis	-	w	w	-	w	-	-	-	w
Pagurus pygmaeus	-	-	-	-	-	-	-	-	w
Pagurus sp.	-	-	-	-	-	-	-	-	w
Pylopagurus corallinus	-	-	-	-	-	-	-	-	w
Pylopagurus holthuisi	-	-	-	-	-	-	-	-	w
undetermined Paguridae	-	w	-	-	-	-	s	-	w
Porcellanidae									
Megalobrachium soriatum	w	w	-	-	w	-	-	-	-
Pachycheles rugimanus	-	-	-	-	-	-	w,s	w	w
Decapoda - Pleocyemata - Brachyura									
Calappidae									
Calappa flammea	-	-	-	s	-	-	-	-	-
Osachila tuberosa	-	-	-	-	-	-	-	-	w
Dromiidae									
Dromidia antillensis	-	-	-	-	-	-	-	-	w
Grapsidae									
Euchirograpsus americanus	-	-	-	-	-	-	s	-	-
Leucosiidae									
Ebalia cariosa	-	-	-	-	-	-	-	-	w
Iliacantha intermedia	-	-	-	-	w	-	-	-	-
Speloeophorus nodosus	-	-	-	-	-	-	-	-	w
Majidae									
Collodes trispinosus	-	-	-	-	-	-	s	-	w
Mithrax acuticornis	-	-	-	-	-	-	s	w	w
Mithrax forceps	-	-	-	-	w	-	-	-	-
Mithrax pleuracanthus	s	s	-	-	-	-	-	w	-
Pelia mutica	-	-	w	-	w	-	-	-	-
Pitho lherminieri	-	-	w	-	-	-	-	-	-
Podochela gracilipes	-	-	-	-	-	-	s	-	w
Podochela riisei	-	-	-	-	w	-	-	-	w
Stenocionops furcata coelata	-	-	-	-	-	-	s	-	w
Palicidae									
Palicus faxoni	-	-	-	-	-	-	-	-	w
Parthenopidae									
Parthenope fraterculus	-	-	-	-	-	-	-	-	w
Parthenope sp.	-	-	-	-	-	-	-	-	w
Pinnotheridae									
Pinnotheres maculatus	-	-	w	-	-	-	-	-	-
Raninidae									
Symethis variolosa	-	-	-	-	-	-	-	-	w
Xanthidae									
Carpoporus papulosus	-	-	-	-	-	-	-	-	w
Micropanope sculptipes	-	-	-	-	-	-	-	-	w
Pilumnus dasypodus	s	-	-	-	-	-	-	-	-
Pilumnus floridanus	-	w	-	-	w	-	-	w	-
Pilumnus pannosus	-	s	-	-	w	-	s	-	w
Pilumnus sayi	w	w,s	w,s	-	w	-	s	-	-
Pilumnus sp.	-	-	-	-	-	-	-	-	w
Pseudomedaeus agassizii	-	w,s	-	-	w,s	-	w,s	w	w
Bryozoa									
Bryozoa A	-	w	-	-	-	s	-	-	-
Bryozoa B	-	-	-	-	-	-	-	-	w
Bryozoa C	-	-	-	-	-	-	-	-	w
undetermined Bryozoa	-	-	s	-	-	-	-	-	-
Stenolaemata									
Cyclostomata									
Crisiidae									
Crisia sp.	w,s	w,s	w,s	w,s	w,s	w,s	s	-	w,s
Diaperoeciidae									
Diaperoecia floridana	-	-	-	-	-	s	s	-	w

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Lichenoporidae									
Lichenopora radiata	-	-	-	-	-	s	-	w,s	-
Oncousoeciidae									
Proboscina floridana	-	-	-	-	-	s	-	-	-
Plagioeciidae									
Plagioecia dispar	-	-	-	-	-	-	-	w	w,s
Gymnolaemata									
Ctenostomata									
undetermined Ctenostomata	w,s	s	w	s	-	w,s	s	w	w
Alcyonidiidae									
Alcyonidium sp.	-	-	-	-	-	-	s	-	-
Buskiidae									
Buskia sp.	-	-	-	-	-	w	-	-	-
Nolellidae									
Nolella gigantea	w,s	s	-	-	w	w,s	w,s	-	-
Nolella stipata	-	-	-	-	-	w	-	-	-
Valkeriidae									
Aeverrillia setigera	s	s	-	s	s	w,s	-	-	-
Vesiculariidae									
Amathia alternata	w	s	-	s	w,s	-	s	-	-
Amathia convoluta	w	-	-	-	-	-	-	w	-
Amathia distans	-	w	-	s	w	-	w,s	-	w
undetermined Vesiculariidae	-	-	-	-	-	-	-	-	w
Cheilostomata - Anasca									
Aeteidae									
Aetea anguina	w	w,s	-	s	w,s	w,s	w	-	w
Aetea truncata	-	-	-	-	-	-	-	-	w
Alderinidae									
Alderina smitti	-	-	s	-	-	-	-	s	w
Antropora tincta	w,s	w,s	s	w,s	w	s	w,s	-	w
Copidozoum tenuirostre	-	-	-	-	-	-	-	-	w
Parellisina curvirostris	s	-	-	-	w	w,s	s	-	s
Parellisina latirostris	-	-	-	-	-	w	-	s	w
Bugulidae									
Bugula fulva	w	-	-	-	w	w,s	-	-	-
Bugula grayi	-	-	-	-	w	-	-	-	-
Bugula marcusi	-	w	-	w	-	-	-	-	-
Bugula microoecia	-	-	-	s	w	-	-	-	-
Bugula neritina	-	-	-	w,s	-	-	-	-	-
Bugula rylandi	-	-	w	-	w	w,s	-	-	-
Bugula sp.	-	-	w	s	w,s	w	-	-	-
Caulibugula dendrograpta	-	-	-	s	-	-	-	-	-
Caulibugula pearsei	w	-	-	s	-	s	-	-	w
Cellariidae									
Cellaria nodosa	-	-	-	-	-	-	s	-	-
Chaperiidae									
Chaperia sp.	-	-	-	s	s	s	-	-	-
Epistomiidae									
Synnotum aegyptiacum	-	-	-	s	-	w	-	-	w
Farciminariidae									
Nellia tenella	-	-	-	s	w,s	-	-	-	-
Hincksinidae									
Aplousina gigantea	w,s	w	-	s	w	s	w,s	w	-
Membraniporidae									
Membranipora sp.	-	-	-	-	-	-	-	-	w
Membranipora tenuis	w,s	-	w,s	-	-	s	s	-	s
Onychocellidae									
Floridina antiqua	-	s	-	-	-	-	s	w,s	w,s
Floridina parvicella	-	w	-	-	-	w	-	-	-
Smittipora levinseni	-	-	-	-	s	w,s	s	w	w,s
Scrupocellariidae									
Caberia boryi	-	-	-	s	s	-	-	-	w
Scrupocellaria regularis	w,s	w,s	s	-	-	-	-	-	-
Scrupocellaria bertholleti	-	-	-	-	-	w	-	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Steganoporellidae									
Labioporella granulosa	-	-	-	-	-	-	-	-	w
Steganoporella magnilabris	-	-	-	-	-	-	-	-	w
Cheilostomata - Cribrimorpha									
Cribrilinidae									
Bellulopora bellula	-	-	s	-	-	-	-	s	w,s
Cribrilaria floridana	-	-	-	-	-	w,s	-	w,s	w
Cribrilaria radiata	-	w,s	s	-	w	w,s	w,s	w,s	w,s
Membraniporella aragoi	-	-	-	-	-	-	w,s	-	w,s
Cheilostomata - Ascophora									
Adeonidae									
Reptadeonella hastingsae	w,s	w,s	-	s	w,s	w,s	s	w,s	-
Celleporariidae									
Celleporaria albirostris	-	s	w,s	s	w,s	w,s	s	w,s	w
Celleporaria magnifica	-	w,s	-	s	w,s	w,s	s	-	w
Celleporaria mordax	s	w	-	-	w	-	-	-	-
Celleporinidae									
Celleporina hassalli	-	s	-	-	-	w	-	-	-
Turbicellepora dichotoma	w,s	s	w,s	s	w,s	w,s	s	w	w
Cheiloporinidae									
Hippaliosina rostrigera	w,s	w,s	w	-	w	w,s	s	-	-
Tetraplaria dichotoma	-	-	-	-	s	-	-	-	-
Crepidacanthidae									
Crepidacantha poissoni teres	-	-	-	-	-	-	-	w	w,s
Crepidacantha setigera	-	-	-	-	-	-	-	-	s
Exochellidae									
Exochella longirostris	-	-	-	-	-	-	-	-	w,s
Hippoporinidae									
Hippopleurifera mucronata	-	-	-	-	-	w,s	-	-	-
Hippoporina contracta	w,s	w,s	s	w,s	w,s	w,s	w,s	-	w,s
Hippothoidae									
Trypsostega venusta	w,s	w,s	-	s	w,s	w,s	w,s	w,s	w,s
Microporellidae									
Microporella ciliata	w,s	w,s	w,s	s	w,s	w,s	w,s	w	w,s
Microporella marsupiata	s	-	-	-	-	-	-	w,s	-
Microporella umbracula	s	s	-	-	s	w,s	-	w,s	w
Petraliidae									
Petraliella bisinuata	-	-	-	s	w	w,s	s	-	w,s
Phylactellidae									
Phylactella aviculifera	-	w	s	-	-	s	w	w	-
Schizoporellidae									
Arthropoma cecili	-	-	-	-	-	-	-	w	-
Cleidochasma porcellanum	-	-	-	w	-	w,s	w,s	w	w,s
Cycloperiella rubra	-	-	-	-	-	w	w,s	w,s	w,s
Escharina porosa	-	-	-	-	-	-	-	-	w
Hippoporidra calcarata	-	-	-	-	-	-	-	-	w
Schizoporella cornuta	w,s	-	w,s	w,s	w,s	w,s	w,s	w,s	s
Schizoporella errata	-	w	-	-	-	-	-	-	w
Schizoporella floridana	-	s	-	s	w,s	w,s	s	w	-
Stylopoma informata	-	w	-	-	-	w,s	w,s	w,s	w,s
Sertellidae									
Rhynchozoon rostratum	-	-	-	-	w	-	-	-	w
Smittinidae									
Parasmittina nitida	-	w,s	w	-	w	-	-	w	w
Parasmittina spathulata	-	s	-	-	-	s	w,s	w,s	w,s
Parasmittina sp.	-	-	-	-	-	w	-	s	-
Smittina smittiella	-	w	-	w	w	w,s	w,s	-	w,s
Vittaticellidae									
Vittaticella uberrima	-	-	-	s	-	-	-	-	-
Echinodermata									
Crinoidea									
Comasteridae									
Comactinia meridionalis	-	-	-	-	w	-	-	-	w

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Stelleroidea - Asteroidea									
Platyasterida									
Luidiidae									
Luidia alternata	w	s	w,s	s	w	-	-	-	-
Luidia bernasconiae	-	-	-	-	-	-	s	-	-
Luidia clathrata	w	-	-	-	-	-	-	w	-
Luidia sp.	-	-	-	-	-	-	-	-	w
Paxillosida									
Astropectinidae									
Astropecten articulatus	-	-	w	w	-	-	s	-	-
Astropecten comptus	-	-	s	-	s	-	w,s	-	-
Astropecten duplicatus	w,s	-	-	-	w,s	w	-	-	-
Astropecten sp.	-	-	w	-	s	-	w	-	-
Valvatida									
Ophidiasteridae									
Narcissia trigonaria	-	-	-	-	-	-	w	-	w
Spinulosida									
Echinasteridae									
Echinaster serpentarius	s	s	-	-	s	-	-	-	-
Echinaster sp. B	-	-	w	-	-	-	-	-	-
Forcipulata									
Asteriidae									
Asterias sp. A	w	-	-	-	-	-	-	-	-
Stelleroidea - Ophiuroidea									
Phrynophiurida - Ophiomyxina									
Ophiomyxidae									
Ophiomyxa flaccida	-	-	-	-	-	-	-	-	w
Phrynophiurida - Euryalina									
Gorgonocephalidae									
Astrophyton muricatum	-	-	-	-	w	-	-	-	-
Astroporpa annulata	-	-	-	-	-	-	w,s	-	w
Ophiurida									
Amphiuridae									
Amphiura sp. A	-	-	-	-	-	-	-	w	-
Ophiostigma isacanthum	-	-	-	-	w	-	w	-	w
Ophiodermatidae									
Ophioderma brevispinum	-	-	-	-	-	-	-	-	w
Ophiothricidae									
Ophiothrix angulata	-	w	w,s	-	s	s	s	w	w
Ophiothrix sp.	-	-	-	-	-	-	-	-	w
Echinoidea									
undetermined Echinoidea	-	-	-	-	-	-	-	-	w
Cidaroida									
Cidaridae									
Eucidaris tribuloides	-	-	-	w	-	w,s	s	-	w,s
Stylocidaris affinis	-	-	-	-	-	-	-	-	w
Arbacoida									
Arbaciidae									
Arbacia punctulata	w,s	w,s	w,s	-	-	-	-	-	-
Temnopleuroida									
Temnopleuridae									
Genocidaris maculata	-	-	-	-	-	-	-	-	w
Toxopneustidae									
Lytechinus variegatus	w,s	w,s	w	-	-	-	-	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Clypeasteroida									
Clypeasteridae									
Clypeaster prostratus	-	-	-	-	-	-	-	w	-
Clypeaster subdepressus	-	-	-	-	-	w,s	-	-	-
Mellitidae									
Encope michelini	w	w	w,s	-	-	-	-	-	-
Leodia sexiesperforata	w,s	-	s	-	w	-	-	-	-
Cassiduloida									
Echinolampadidae									
Echinolampas depressa	-	-	-	-	-	-	-	-	w
Spatangoida									
Brissidae									
Meoma ventricosa	-	-	-	-	-	-	-	-	w
Holothuroidea									
Dendrochirotida									
Cucumariidae									
Neothyone belli	-	-	-	-	-	-	-	-	w
Ocnus pygmaeus	w,s	s	-	-	w	-	-	-	w
Ocnus sp.	-	-	-	-	-	-	-	-	w
Psolidae									
Psolus tuberculosus	-	-	-	-	-	-	-	-	w
Aspidochirotida									
Holothuridae									
Holothuria dakarensis	-	w	-	-	-	-	-	-	-
Holothuria princeps	-	-	-	-	w,s	-	-	-	-
Holothuria sp.	-	-	-	-	-	-	-	-	w
Synallactidae									
Isostichopus badionotus	-	-	-	-	-	w	-	-	-
Chordata									
Ascidiacea									
Ascidiacea A	w	-	-	-	-	-	-	-	-
Ascidiacea B	-	-	-	-	w	-	-	-	-
Ascidiacea C	-	-	-	-	-	w	-	-	w
undetermined Ascidiacea	-	w	s	-	-	-	-	-	-
Enterogona									
Clavelinidae									
Clavelina gigantea	-	-	-	s	s	-	-	-	-
Clavelina picta	w,s	w,s	-	-	-	w	-	-	-
Distaplia bermudensis	s	s	s	-	-	-	s	-	-
Distaplia sp.	-	-	-	-	-	-	-	-	w
Eudistoma capsulatum	-	-	-	-	s	-	-	-	-
Eudistoma carolinense	-	-	-	-	-	-	s	-	-
Eudistoma sp.	-	-	-	-	-	-	s	-	-
Didemnidae									
Didemnum candidum	-	s	-	-	s	-	s	-	-
Didemnum sp. A	-	-	-	-	-	s	s	-	-
Diplosoma macdonaldi	s	-	-	-	-	-	-	-	-
Diplosoma sp.	-	-	-	-	-	-	-	-	w
Lissoclinum fragile	-	-	-	-	-	w	-	-	-
Trididemnum savignii	s	-	-	-	-	-	-	-	-
Trididemnum sp. A	-	-	-	-	s	-	-	-	-
Polyclinidae									
Aplidium constellatum	-	s	s	-	-	-	-	-	-
Pleurogona									
Molgulidae									
Molgula occidentalis	s	s	s	-	s	-	-	-	-
Pyuridae									
Pyura vittata	-	w	w	-	-	-	-	-	-

Appendix 8 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01	OS02	OS03
Styelidae									
Botrylloides nigrum	-	-	-	-	s	-	-	-	-
Styela plicata	w,s	s	w,s	-	w,s	-	-	-	-
Styela sp.	-	-	w	-	-	-	-	-	-
Symplegma viride	-	s	s	-	-	-	-	-	-

Appendix 9. Phylogenetic list of invertebrate taxa collected by trawl at each station during winter (w) and summer (s), 1980.

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Porifera							
undetermined Porifera	-	-	-	-	-	s	s
Demospongea							
Demospongea C	-	-	w	-	-	-	-
Demospongea - Ceractinomorpha							
Keratosa							
Keratosa A	w	-	-	-	-	-	-
Keratosa B	-	-	-	-	-	w	-
Keratosa C	-	s	w	-	s	-	-
Keratosa D	-	-	-	s	-	-	w,s
Spongiidae							
Aplysina fistularis	-	w	w,s	w,s	w	w	-
Ircinia campana	w,s	w,s	w	w,s	s	s	-
Ircinia felix	-	w	s	-	w	-	-
Ircinia ramosa	-	-	w	-	w	w	-
Ircinia sp.	-	-	-	-	-	-	s
Ircinia strobilina	-	-	s	w,s	w	s	-
Haplosclerida							
Haplosclerida B	w	-	-	-	-	-	-
Haplosclerida C	w	-	-	-	-	-	-
Haplosclerida D	-	-	-	s	-	-	-
Haplosclerida E	-	-	-	-	-	-	w
Adociidae							
Sigmadocia caerula	s	-	s	-	-	-	s
Desmacidonidae							
Xytopsues griseus	s	-	-	-	-	-	s
Haliclonidae							
Haliclonidae A	-	-	-	-	-	-	w
Haliclonidae B	w	-	w	-	-	-	-
Haliclona oculata	w,s	w,s	w,s	-	w	-	-
Haliclona sp. B	-	-	-	w	-	-	s
Haliclona sp. C	-	s	-	-	-	-	s
Haliclona sp.	-	-	-	s	-	-	-
Nepheliospongiidae							
Siphonodictyon coralliphagum	w	-	-	-	-	-	-
Poecilosclerida							
Poecilosclerida A	w	w	w	-	-	-	s
Poecilosclerida E	s	-	-	-	-	-	-
Poecilosclerida H	-	s	-	-	-	-	-
Amphilectidae							
Biemna sp. A	-	-	-	-	-	-	s
Microcionidae							
Microciona spinosa	w	-	-	-	-	-	-
Microcionidae A	-	-	-	-	-	-	s
Microcionidae C	-	-	-	-	-	-	s
Pandaros acanthifolium	w,s	w	-	-	-	-	s
Tedaniidae							
Iotrochota birotulata	-	-	s	-	-	-	-
Lissodendoryx sigmata	-	-	-	-	s	-	-
Tedania ignis	-	-	-	s	-	-	-
Halichondriida							
Halichondriida A	-	w	-	-	-	-	-
Halichondriida E	-	w	-	-	-	-	-
Halichondriidae							
Ciocalapata gibbsi	-	s	-	s	-	-	s
Halichondria bowerbanki	w,s	w	-	-	-	-	-
Demospongea - Tetractinomorpha							
Axinellida							

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Axinellidae							
Axinella bookhouti	w	-	-	-	-	-	-
Axinellidae A	-	-	-	-	-	-	s
Homaxinella rudis	-	-	w,s	-	-	-	s
Homaxinella waltonsmithi	w,s	w,s	w	-	-	-	-
Teichaxinella corrugata	-	-	-	-	-	-	s
Desmoxyidae							
Higginsia strigilata	w	-	-	-	-	-	-
Euryponidae							
Tricheurypon sp. A	-	-	w	-	-	-	-
Raspaliidae							
Ectyoplasia sp. A	w	-	-	-	-	-	-
Hemectyon pearsei	w	w	w,s	w,s	w	-	s
Hadromerida							
Hadromerida B	w	-	w	-	-	-	-
Hadromerida C	w	-	-	-	-	-	-
Hadromerida F	w	-	-	-	-	-	-
Hadromerida G	-	-	-	-	-	-	s
Cliionidae							
Cliona caribbaea	s	w	w,s	-	w	w,s	s
Cliona sp.	-	-	-	-	-	s	-
Cliona viridis	-	s	-	-	-	-	-
Spirastrellidae							
Anthosigmella varians	w	-	-	-	-	-	-
Spheciospongia vesparium	w,s	w,s	w,s	-	w,s	w,s	-
Spirastrella coccinea	-	w	w	-	-	-	-
Spirastrellidae A	w	-	-	-	-	s	-
Timea mixta	w	-	-	-	-	-	-
Tethyidae							
Tethya crypta	-	-	-	-	-	-	s
Choristida - Astrophorina							
Ancorinidae							
Myriastra fibrosa	-	-	w	-	-	-	-
Myriastra sp. A	-	-	-	-	-	-	s
Stelleta sp. A	-	-	-	-	-	-	s
Geodiidae							
Geodia gibberosa	-	s	-	-	-	-	-
Choristida - Spirophorina							
Craniellidae							
Cinachyra alloclada	w,s	w	-	w	-	-	-
Cinachyra kuekenthali	w,s	s	w	w,s	w	-	s
Choristida - Chondrosiina							
Chondrillidae							
Chondrilla nucula	s	-	-	-	-	-	-
Calcarea - Calcinea							
Clathrinida							
Clathrinidae							
Clathrina coriacea	-	w	-	w	w	w	w
Calcarea - Calcaronea							
Sycettida							
Sycettidae							
Scypha barbadensis	-	-	-	-	w	w	-
Cnidaria							
Scyphozoa							
undetermined Scyphozoa	-	-	-	s	-	s	-
Coronatae							
Stephanoscyphus sp.	-	-	-	-	-	-	w,s

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Semaeostomeae							
Cyaneidae							
Cyanea capillata	-	-	-	w	-	-	w
Pelagiidae							
Chrysaora quinquecirrha	-	-	s	-	-	-	-
Ulmaridae							
Aurelia aurita	-	-	-	-	-	-	w
Rhizostomeae							
Stomolophidae							
Stomolophus meleagris	s	s	-	s	s	-	-
Cubozoa							
Carybdeidae							
Tamoya haplonema	w	-	w	w,s	w	w	-
Hydrozoa							
Anthomedusae/Athecata							
Bougainvilliidae							
Bimeria humilis	-	-	-	s	s	-	-
Bougainvillea sp.	s	-	-	-	-	-	-
undetermined Bougainvilliidae	-	-	-	-	-	-	s
Clavidae							
Turritopsis fascicularis	-	-	-	-	-	-	w
Turritopsis nutricula	s	s	w	-	w	-	w
Eudendriidae							
Eudendrium carneum	w,s	s	-	-	w	-	-
Eudendrium sp.	-	-	-	s	-	w,s	w,s
Eudendrium tenellum	-	-	-	s	-	-	w,s
Halocordylidae							
Halocordyle disticha	s	s	-	-	-	-	-
Hydractiniidae							
undetermined Hydractiniidae	s	-	-	-	-	-	-
Tubulariidae							
Ectopleura dumortieri	-	-	w	-	w	w	-
Zancleidae							
Zanclea costata	-	-	-	-	w	-	-
Leptomedusae/Thecata							
Campanulariidae							
Campanularia hincksii	-	-	-	w,s	w,s	w	s
Campanularia sp.	-	-	-	-	s	-	-
Clytia cylindrica	-	w,s	-	w	s	-	w,s
Clytia fragilis	w	w,s	-	w,s	w,s	w	w,s
Clytia sp.	-	-	-	-	-	-	s
Obelia dichotoma	w,s	w,s	-	w	w	w	w,s
undetermined Campanulariidae	-	-	-	-	-	-	s
Campanulinidae							
Cuspidella humilis	-	-	-	-	-	-	s
Haleciidae							
Halecium sp.	w	-	s	-	w	-	-
Halecium tenellum	-	-	-	-	-	-	s
Lafoeidae							
Filellum serratum	-	-	-	s	-	w,s	s
Hebella scandens	s	s	-	w,s	w,s	w	w,s
Hebella venusta	-	-	-	w,s	w,s	w	-
Scandia mutabilis	-	-	-	s	w,s	s	w,s
Plumulariidae							
Aglaophenia allmani	-	-	-	s	s	s	-
Aglaophenia elongata	-	-	-	-	-	-	w
Aglaophenia latecarinata	-	-	-	s	s	w,s	-
Aglaophenia rigida	w	-	-	-	-	-	-
Aglaophenia sp.	-	-	-	w	w	w	-
Aglaophenia trifida	w,s	-	-	s	w,s	s	-
Antenella secundaria	-	-	-	-	-	-	s
Montostaechas quadridens	w,s	w,s	w,s	s	w,s	w,s	w
Nemertesia simplex	-	-	-	-	-	-	s
Plumularia setacea	-	-	-	s	-	s	-

Appendix 9 (Continued)

	ISO1	ISO2	ISO3	MSO1	MSO2	MSO3	OSO1
Plumularia sp.	-	-	-	-	-	w	-
Sertulariidae							
Diphasia tropica	-	-	-	s	-	-	-
Dynamena cornicina	w,s	w,s	s	s	w,s	w	-
Dynamena dalmasi	-	-	-	-	-	-	w,s
Dynamena quadridentata	-	w,s	w	s	w,s	w	-
Salacia desmoides	-	-	-	s	-	-	s
Sertularella areyi	-	-	-	-	-	-	s
Sertularella conica	w,s	w,s	-	-	w,s	s	-
Sertularella gayi	-	-	-	s	w	-	s
Sertularella pinnigera	-	-	-	s	-	s	-
Sertularia marginata	w	-	w	s	w,s	-	-
Sertularia plumulifera	w	-	-	w	w	w	s
Sertularia stookeyi	-	w	-	-	-	-	-
Thyroscyphus marginatus	-	-	-	w,s	w,s	w,s	w
Syntheciidae							
Hincksella cylindrica	-	-	-	s	w,s	-	-
Synthecium tubitheca	-	-	-	s	w,s	-	s
Anthozoa - Octocorallia							
Telestacea							
Telestidae							
Telesto fruticulosa	-	w,s	w	-	-	-	w
Telesto riisei	-	-	-	-	-	w	-
Telesto sanguinea	-	-	-	-	-	-	s
Telesto sp.	s	s	s	-	-	-	-
Gorgonacea							
Anthothelidae							
Titanideum frauenfeldii	w	w,s	w	-	w,s	-	-
Ellisellidae							
Ellisella sp.	-	s	-	-	-	-	s
Gorgoniidae							
Leptogorgia virgulata	w,s	w,s	w,s	s	s	-	-
Lophogorgia hebes	w,s	w,s	w	-	w	-	-
Paramuriceidae							
Thesea sp.	s	-	-	-	w	-	w,s
Plexauridae							
Muricea pendula	-	-	w	-	w,s	w,s	-
Pennatulacea							
Renillidae							
Renilla reniformis	-	-	-	w	-	-	w
Anthozoa - Zoantharia							
Zoanthidea							
Epizoanthidae							
Epizoanthus americanus	-	w,s	w,s	-	w,s	-	w,s
Actiniaria							
undetermined Actiniaria	s	w,s	-	w,s	w,s	w	s
Hormathiidae							
Calliactis tricolor	-	-	-	-	-	s	s
Scleractinia - Faviina							
Oculinidae							
Oculina arbuscula	w	-	w,s	-	-	-	-
Oculina sp.	-	-	-	-	s	-	s
Rhizangiidae							
Astrangia astreiformis	-	w	-	-	-	-	-
Phyllangia americana	-	-	-	-	-	s	-
Antipatharia							
undetermined Antipatharian	-	-	-	-	-	-	s

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Mollusca							
Gastropoda							
undetermined Gastropoda	-	-	-	-	-	w	-
Gastropoda - Prosobranchia							
Archaeogastropoda							
Fissurellidae							
Diodora cayenensis	w	w,s	s	-	-	-	-
Trochidae							
Calliostoma euglyptum	-	s	-	-	w	-	-
Turbinidae							
Turbo castanea	-	w	-	-	-	-	-
Mesogastropoda							
Crepidulidae							
Crepidula aculeata	-	s	-	-	-	-	-
Crepidula fornicata	-	-	-	-	-	-	s
Cypraeidae							
Cypraea cervus	-	-	-	s	-	-	-
Ovulidae							
Cyphoma gibbosum	-	-	-	-	w	w	-
Simnia acicularis	-	w	-	-	-	-	-
Simnia uniplicata	w	-	w	-	-	-	-
Neogastropoda							
Buccinidae							
Pisania tincta	-	w,s	w	-	-	-	-
Columbellidae							
Anachis sp. A	-	-	-	-	-	-	s
undetermined Columbellidae	-	-	-	-	-	-	w
Fasciolariidae							
Fasciolaria lilium	-	-	-	-	w	-	-
Fasciolaria tulipa	-	s	-	-	-	-	-
Pleuroploca gigantea	-	-	-	-	-	-	s
Muricidae							
Murex florifer dilectus	-	-	w	-	-	-	-
Murex sp.	-	w	-	-	-	-	-
Gastropoda - Opisthobranchia							
Cephalaspidea							
Doridiidae							
undetermined Doridiidae	-	-	-	-	-	-	s
Notaspidea							
Pleurobranchidae							
Pleurobranchea sp.	-	-	-	w	-	-	-
Nudibranchia							
Dotodae							
Doto sp.	-	-	-	-	w	-	-
Pelecypoda							
Arcoida							
Arcidae							
Arca zebra	w	s	w	-	-	-	-
Barbatia domingensis	w	-	-	-	-	-	-
Mytiloida							
Mytilidae							
Modiolus americanus	-	-	s	-	-	-	-
Musculus sp. A	-	w	-	-	-	-	-
Pterioida							
Anomiidae							

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Pododesmus sp.	-	-	s	-	-	-	-
undetermined Anomiidae	-	w	-	-	-	-	-
Pectinidae							
Argopecten gibbus	-	-	-	s	-	-	-
Chlamys benedicti	-	-	-	-	-	-	w,s
Pecten raveneli	-	-	-	w	-	-	-
Pteriidae							
Pteria colymbus	w,s	w,s	w	-	w	w,s	s
Ostreina							
Ostreidae							
Lopha frons	-	-	-	-	w	w	-
Ostrea equestris	-	-	-	-	-	-	s
Veneroida							
Cardiidae							
Laevicardium laevigatum	-	-	-	-	s	-	-
Carditidae							
Pleuromeris tridentata	-	w	-	-	-	-	-
Chamidae							
Chama congregata	s	-	-	-	-	-	-
Chama sp.	-	-	w	-	-	-	-
Veneridae							
Chione grus	-	-	-	-	-	-	w
Myoida							
Hiatellidae							
Hiatella arctica	-	s	-	-	-	-	s
Cephalopoda							
Sepioidea							
Sepiolidae							
Rossia tenera	w	-	-	-	-	-	-
Octopoda							
Octopodidae							
Octopus sp.	w	w	-	w	w	-	-
Octopus sp. A	-	-	w	-	-	-	s
Octopus vulgaris	-	s	-	-	-	-	-
Arthropoda - Chelicerata							
Merostomata - Xiphosura							
Limulus polyphemus	-	w	-	w	-	-	-
Arthropoda - Mandibulata							
Crustacea - Cirripedia							
undetermined Cirripedia	-	-	-	-	-	-	w
Acrothoracica							
Lithoglyptidae							
Kochlorine floridana	-	w	w	s	w	-	s
Thoracica - Lepadomorpha							
Lepadidae							
Heteralepas cornuta	-	-	-	-	-	-	s
Scalpellidae							
Scalpellum diceratum	-	-	-	-	-	-	s
Thoracica - Balanomorpha							
Archaeobalanidae							
Conopea galeata	s	w,s	w	-	-	-	w
Conopea merrilli	w,s	s	w	s	w,s	w,s	w,s
Balanidae							
Balanus calidus	w	-	-	-	-	-	s
Balanus sp.	-	-	-	s	-	-	s

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Balanus trigonus	w,s	w,s	w,s	s	w,s	w,s	s
Balanus venustus	w,s	w,s	w,s	w	w	-	s
Crustacea - Malacostraca							
Decapoda - Dendrobranchiata							
undetermined Penaeoidea	-	-	-	-	w	-	-
Penaeidae							
Mesopenaeus tropicalis	-	-	-	-	-	s	w,s
Metapenaeopsis goodei	w	s	s	w,s	w,s	w,s	w,s
Penaeus duorarum duorarum	w	s	w,s	w	-	w	-
Trachypenaeus constrictus	w,s	w,s	w,s	w	w,s	w	-
undetermined Penaeidae	s	-	-	-	-	-	s
Sicyonidae							
Sicyonia brevirostris	s	-	w	w	s	w	w,s
Sicyonia sp.	-	-	-	-	-	w	-
Sicyonia typica	-	-	-	w	-	-	-
Solenoceridae							
Solenocera atlantidis	w	-	s	-	s	s	w,s
Solenocera sp.	-	-	-	-	-	s	-
undetermined Solenoceridae	-	-	-	-	-	w	w
Decapoda - Pleocyemata - Caridea							
Alpheidae							
Synalpheus longicarpus	w,s	w,s	w,s	s	-	w	-
Synalpheus minus	w	w,s	w,s	w	w	-	w
Synalpheus pectiniger	-	-	w	-	-	-	-
Synalpheus sp.	-	-	w	-	-	-	-
Synalpheus townsendi	-	w,s	w	w,s	w	w	w,s
undetermined Alpheidae	-	-	-	-	w	-	-
Gnathophyllidae							
Gnathophyllum modestum	-	s	-	-	-	-	-
Hippolytidae							
Lysmata intermedia	-	s	-	-	-	-	-
Lysmata rathbunae	-	-	-	w,s	-	-	w
Lysmata wurdemanni	-	s	-	-	-	-	-
Thor floridanus	-	-	-	w	-	-	-
Thor manningi	-	-	-	-	-	-	s
Thor sp.	-	-	-	-	-	-	s
Tozeuma serratum	w	-	-	-	-	-	-
undetermined Hippolytidae	s	-	-	-	-	-	-
Palaemonidae							
Leander tenuicornis	-	-	-	w	-	-	-
Periclimenaeus sp.	-	-	-	-	-	-	w
Pasiphaeidae							
Leptochela papulata	w	-	-	-	-	-	-
Processidae							
Processa bermudensis	w,s	-	-	-	-	-	-
Processa sp.	-	-	-	-	-	-	s
Processa tenuipes	-	-	-	-	-	-	s
Decapoda - Pleocyemata - Palinura							
Palinuridae							
Panulirus argus	-	-	-	s	-	-	-
Scyllaridae							
Scyllarides nodifer	-	-	-	w,s	s	-	-
Scyllarus chacei	-	-	-	s	-	-	-
Scyllarus depressus	-	-	-	-	-	-	s
Decapoda - Pleocyemata - Anomura							
Albuneidae							
Albunea gibbesii	-	-	-	-	s	-	-
Diogenidae							
Dardanus fusosus	-	-	-	-	-	-	s
Paguristes tortugae	s	-	s	-	-	-	-
Petrochirus diogenes	-	-	-	-	-	-	s
Galatheidae							
Galathea rostrata	-	-	-	s	-	-	w,s

Appendix 9 (Continued)

	ISO1	ISO2	ISO3	MSO1	MSO2	MSO3	OSO1
Paguridae							
Pagurus carolinensis	w	w,s	w	-	w	w	s
Pagurus piercei	-	-	-	-	-	-	w
Pylopagurus holthuisi	-	-	-	-	-	-	s
Porcellanidae							
Megalobrachium soriatum	-	w,s	w	-	-	w	-
Pachycheles rugimanus	-	-	-	-	-	w	w,s
Petrolisthes galathinus	-	s	-	-	-	-	-
Porcellana sayana	-	-	-	-	-	-	s
Decapoda - Pleocyemata - Brachyura							
Cancridae							
Cancer irroratus	w	-	-	-	-	-	-
Dromiidae							
Dromidia antillensis	w,s	w,s	w,s	w	w	s	-
Grapsidae							
Euchirograpsus americanus	-	-	-	-	-	-	w,s
Planes minutus	-	-	-	-	-	-	w
Homolidae							
Homola barbata	-	-	-	-	-	-	s
Leucosiidae							
Iliacantha intermedia	-	-	-	w	-	-	-
Majidae							
Macrocoeloma trispinosum	s	w	-	-	-	-	-
Metoporhaphis calcarata	-	w	-	w	-	-	-
Mithrax forceps	-	-	s	s	-	-	-
Mithrax pleuracanthus	w,s	w,s	w	-	w	-	-
Mithrax sp.	-	w	-	-	-	-	-
Pelia mutica	-	-	-	-	w	-	-
Pitho lherminieri	s	-	-	-	-	-	-
Podochela gracilipes	-	-	-	-	-	-	s
Podochela riisei	w	-	-	-	-	w	-
Podochela sidneyi	w	-	-	-	-	-	-
Stenocionops furcata coelata	-	-	-	w	-	w,s	s
Stenorhynchus seticornis	-	-	-	w	-	-	-
undetermined Majidae	-	-	-	-	w	-	-
Pinnotheridae							
Parapinnixa bouvieri	-	w	-	-	-	-	-
Portunidae							
Ovalipes stephensoni	-	w,s	-	-	-	w	-
Portunus gibbesii	s	s	-	-	s	-	-
Portunus sp.	-	-	-	-	-	-	s
Portunus spinimanus	-	s	-	-	s	-	-
Xanthidae							
Micropanope nuttingi	-	-	-	-	w	-	-
Micropanope scultipes	-	-	-	-	-	w	-
Micropanope sp.	-	-	-	-	-	-	s
Nanoplax xanthiformis	-	-	-	-	-	w	-
Pilumnus dasypodus	-	w,s	s	w	-	w	-
Pilumnus floridanus	s	-	-	w	-	w	s
Pilumnus pannosus	-	w,s	-	s	w	-	-
Pilumnus sayi	w,s	w,s	w	w,s	w	w	-
Pilumnus sp.	-	s	-	-	-	-	w,s
Pseudomedaeus agassizii	-	-	w	w,s	s	w	w,s
Bryozoa							
Bryozoa A	-	-	-	s	-	-	-
Stenolaemata							
Cyclostomata							
Crisiidae							
Crisia sp.	-	w	s	w,s	w,s	w,s	s
Diaperoeciidae							
Diaperoecia floridana	-	-	-	-	-	w,s	w,s
Gymnolaemata							

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Ctenostomata							
undetermined Ctenostomata	s	-	-	s	w,s	-	s
Buskiidae							
Buskia sp.	-	-	-	-	s	-	-
Nolellidae							
Nolella gigantea	-	w	-	-	w	w,s	s
Nolella stipata	-	-	-	-	-	w	-
Valkeriidae							
Aeverrillia setigera	-	-	-	s	w,s	w	-
Vesiculariidae							
Amathia alternata	w	s	-	s	w,s	-	s
Amathia distans	-	w,s	-	s	w,s	s	s
Cheilostomata - Anasca							
Aeteidae							
Aetea anguina	-	-	-	s	w,s	w	-
Aetea truncata	-	-	-	-	-	-	s
Alderinidae							
Alderina smitti	-	-	-	s	-	-	-
Antropora tincta	s	w,s	-	-	w,s	w,s	s
Copidozoum tenuirostre	-	-	-	-	-	-	s
Crassimarginatella leucocypha	-	-	-	s	-	-	-
Parellisina curvirostris	-	w	-	s	w	-	s
Parellisina latirostris	-	-	-	-	-	s	-
Bugulidae							
Bugula fulva	-	w	-	s	w	w	-
Bugula grayi	-	w	-	-	-	-	-
Bugula marcusi	-	w	-	-	-	-	-
Bugula rylandi	-	w	-	-	w,s	w,s	-
Caulibugula pearsei	-	-	-	s	s	-	-
Cellariidae							
Cellaria nodosa	-	-	-	-	-	-	s
Chaperiidae							
Chaperia sp.	-	-	-	s	w,s	s	-
Cupuladriidae							
Cupuladria canariensis	-	-	-	-	-	-	s
Epistomiidae							
Synnotum aegyptiacum	-	-	-	s	-	-	-
Farciminariidae							
Nellia tenella	-	w	-	s	w,s	-	-
Hincksinidae							
Aplousina gigantea	-	-	-	s	-	-	s
Membraniporidae							
Membranipora sp.	-	-	-	-	-	w	-
Membranipora tenuis	-	-	-	-	s	-	s
Onychocellidae							
Floridina parvicella	-	-	-	w	-	-	-
Smittipora levinseni	-	-	-	-	s	-	s
Scrupocellariidae							
Caberia boryi	-	-	-	s	-	-	-
Scrupocellaria regularis	-	w	-	s	-	-	s
Cheilostomata - Cribrimorpha							
Cribrilinidae							
Cribrilaria floridana	-	-	-	w	-	-	-
Cribrilaria radiata	-	-	-	-	-	-	w,s
Cheilostomata - Ascophora							
Adeonidae							
Reptadeonella hastingsae	-	-	-	-	w,s	-	w,s
Celleporariidae							
Celleporaria albirostris	-	w	w	w,s	w,s	w	s
Celleporaria magnifica	-	w,s	-	s	w,s	-	s
Celleporaria mordax	-	w	-	-	-	-	-
Celleporinidae							
Celleporina hassalli	-	-	-	-	s	w	s
Turbicellepora dichotoma	s	w,s	s	s	w,s	w	s

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Cheiloporinidae							
Hippaliosina rostrigera	-	w,s	-	s	-	-	s
Hippoporinidae							
Hippoporina contracta	s	w	w	s	w	-	s
Hippothoidae							
Trypsostega venusta	-	-	-	-	-	-	s
Microporellidae							
Microporella ciliata	s	w,s	w,s	s	w,s	w,s	s
Microporella umbracula	-	-	-	s	-	-	-
Petraliidae							
Petraliella bisinuata	-	-	-	w,s	s	s	w,s
Petraliella marginata	-	-	-	-	-	-	s
Phylactellidae							
Phylactella aviculifera	-	-	-	w	-	-	-
Schizoporellidae							
Arthropoma cecili	-	-	-	s	-	-	-
Cleidochasma porcellanum	-	-	-	w,s	-	-	w,s
Cycloperiella rubra	-	-	-	-	-	-	s
Schizoporella cornuta	s	-	w	s	w,s	w,s	w,s
Schizoporella errata	-	-	-	s	-	-	s
Schizoporella floridana	-	-	-	w,s	w,s	w	-
Stylopoma informata	-	-	-	s	-	-	s
Smittinidae							
Parasmittina nitida	-	w	-	s	-	-	-
Parasmittina spathulata	-	-	-	s	-	-	s
Smittina smittiella	-	-	-	s	-	-	s
Vittaticellidae							
Vittaticella uberrima	-	-	-	s	-	-	-
Echinodermata							
Stelleroidea - Asteroidea							
Platyasterida							
Luidiidae							
Luidia alternata	-	-	w	-	-	-	-
Luidia clathrata	-	-	-	w	-	-	-
Luidia sp.	-	-	-	-	-	w	-
Paxillosida							
Astropectinidae							
Astropecten articulatus	-	-	w	-	-	-	s
Valvatida							
Goniasteridae							
Goniaster tessellatus	-	-	-	-	-	w	-
Spinulosida							
Echinasteridae							
Echinaster serpentarius	-	s	s	-	-	s	-
Echinaster sp. A	w	-	-	-	-	-	-
Echinaster sp. B	w	w	w	w	w	-	-
Forcipulata							
Asteriidae							
Asterias sp. A	w	-	-	-	-	-	-
Stelleroidea - Ophiuroidea							
Phrynophiurida - Euryalina							
Gorgonocephalidae							
Astrophyton muricatum	-	-	w	s	w,s	w,s	s
Astroporpa annulata	-	-	-	-	-	-	s
Ophiurida							
Ophiodermatidae							
Ophioderma brevispinum	-	-	-	w	-	-	-

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Ophiothricidae							
Ophiothrix angulata	w,s	w,s	w,s	s	w	w	w,s
Ophiothrix sp.	-	-	-	-	-	-	-
Echinoidea							
undetermined Echinoidea	-	-	-	-	-	-	w
Cidaroida							
Cidaridae							
Eucidaris tribuloides	-	-	-	-	-	w,s	s
Arbacioida							
Arbaciidae							
Arbacia punctulata	w,s	w,s	w,s	-	w	s	w,s
Temnopleuroida							
Toxopneustidae							
Lytechinus variegatus	w,s	w	-	-	-	-	-
Holothuroidea							
Dendrochirotida							
Cucumariidae							
Ocnus pygmaeus	w	w,s	-	-	-	-	-
Thyone pseudofusus	-	w	-	-	-	-	-
Aspisochirotida							
Holothuridae							
Holothuria dakarensis	-	w	-	-	-	-	-
Holothuria princeps	-	-	-	s	s	s	-
Synallactidae							
Isostichopus badionotus	-	-	-	w	-	w,s	-
Chordata							
Ascidiacea							
Ascidiacea A	w	-	-	-	-	-	-
undetermined Ascidiacea	-	w	-	-	-	w	-
Enterogona							
Clavelinidae							
Clavelina gigantea	-	w	-	s	w,s	s	-
Clavelina picta	w,s	w,s	w	-	-	-	-
Clavelina sp.	s	s	-	-	w	w	-
Distaplia bermudensis	s	s	-	-	-	-	-
Distaplia sp.	w	w	-	-	-	-	-
Eudistoma capsulatum	-	-	s	-	-	-	-
Eudistoma carolinense	-	-	-	-	-	-	s
Eudistoma sp.	-	w,s	-	w	-	-	-
Didemnidae							
Didemnidae A	-	-	-	-	w	-	-
Didemnum candidum	s	s	s	-	-	-	s
Didemnum sp. A	-	-	-	-	-	-	s
Diplosoma macdonaldi	s	w,s	w	-	-	-	-
Diplosoma sp.	s	-	w	-	w	w	-
Lissoclinum fragile	w	-	-	-	-	-	w
Trididemnum savignii	-	-	-	-	-	-	s
Trididemnum sp. A	-	s	-	-	-	-	-
Trididemnum sp.	-	s	s	-	-	-	s
undetermined Didemnidae	s	-	-	-	-	-	-
Perophoridae							
Perophora viridis	-	s	-	w	-	-	-
Polyclinidae							
Aplidium bermudae	-	-	-	-	-	-	s
Aplidium exile	-	-	s	-	-	-	-
Aplidium constellatum	s	s	s	-	-	s	-
Aplidium pellucidum	-	-	-	-	-	-	s

Appendix 9 (Continued)

	IS01	IS02	IS03	MS01	MS02	MS03	OS01
Aplidium stellatum	w	w	-	-	-	-	-
Aplidium sp.	w,s	w,s	w	-	-	-	-
Pleurogona							
Molgulidae							
Molgula occidentalis	s	s	s	-	-	-	-
Pyuridae							
Pyura vittata	-	w	w	-	-	-	-
Styelidae							
Styela plicata	w,s	w,s	w,s	-	w,s	-	-
Styela sp.	-	-	w	-	w	-	-
Symplegma viride	-	s	-	-	-	-	-

Appendix 10. Ranked abundance of invertebrate and macroalgae species collected by suction and grab samplers at each station during winter, 1980. Average ($\bar{x}$) density, expressed as number per 0.10 m^2, and standard error (SE) are indicated. Taxa codes are as follows: An = Annelida, Ar = Arthropoda, Br = Brachiopoda, Bry = Bryozoa, Ch = Chordata, Chl = Chlorophyta, Cn = Cnidaria, Ech = Echinodermata, Mo = Mollusca, Ph = Phoronida, Pl = Platyhelminthes, Po = Porifera, Si = Sipunculida.

Appendix 10 (Continued)

ISO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Podocerus sp. (Ar)	302	60.4	13.4	1.0
Luconacia incerta (Ar)	113	22.6	11.0	2.0
Caprellidae A (Ar)	96	19.2	6.9	3.0
Erichthonius brasiliensis (Ar)	90	18.0	5.0	4.0
Photis sp. (Ar)	63	12.6	2.7	5.0
Exogone dispar (An)	50	10.0	4.3	6.0
Spiophanes bombyx (An)	46	9.2	3.0	7.0
Melita appendiculata (Ar)	38	7.6	4.0	8.0
Phyllochaetopterus socialis (An)	36	7.2	6.2	9.0
Nematoda	31	6.2	2.4	10.0
Carpias bermudensis (Ar)	30	6.0	5.0	11.0
Ampelisca vadorum (Ar)	29	5.8	1.6	12.0
Ampharete americana (An)	28	5.6	0.9	13.0
Aspidosiphon spinalis (Si)	26	5.2	2.1	14.0
Capitellidae (An)	24	4.8	2.6	15.0
Latreutes parvulus (Ar)	23	4.6	1.0	16.5
Ampelisca agassizi (Ar)	23	4.6	1.5	16.5
Botula fusca (?) (Mo)	20	4.0	1.8	18.0
Unciola laminosa (Ar)	18	3.6	1.0	19.0
Oxyurostylis smithi (Ar)	17	3.4	0.9	20.5
Loimia medusa (An)	17	3.4	1.9	20.5
Exogone verugera (?) (An)	16	3.2	3.2	22.0
Lysianopsis alba (Ar)	13	2.6	2.1	23.5
Chrysopetalidae A (An)	13	2.6	1.2	23.5
Paracerceis caudata (Ar)	12	2.4	0.5	25.0
Gammaropsis sp. (Ar)	11	2.2	1.0	27.0
Erichsonella filiformis (Ar)	11	2.2	1.5	27.0
Pseudeurythoe ambigua (An)	11	2.2	1.2	27.0
Pagurus carolinensis (Ar)	10	2.0	0.6	29.5
Lithophaga aristata (?) (Mo)	10	2.0	1.5	29.5
Lembos unicornis (Ar)	9	1.8	1.1	32.0
Pelecypoda (Mo)	9	1.8	0.4	32.0
Notomastus sp. (An)	9	1.8	1.4	32.0
Diplodonta semiaspera (Mo)	8	1.6	0.6	34.5
Syllidae A (An)	8	1.6	0.8	34.5
Aspidosiphon misakiensis (Si)	7	1.4	0.5	37.5
Sabellaria vulgaris vulgaris (An)	7	1.4	0.4	37.5
Axiothella mucosa (An)	7	1.4	0.6	37.5
Thelepus setosus (An)	7	1.4	0.9	37.5
Lembos smithi (Ar)	6	1.2	0.5	42.0
Ophiothrix angulata (Ech)	6	1.2	0.5	42.0
Chama congregata (Mo)	6	1.2	0.8	42.0
Marginella sp. (Mo)	6	1.2	0.4	42.0
Syllidae (An)	6	1.2	1.0	42.0
Homaxinella waltonsmithi (Po)	5	1.0	0.5	52.5
Sicyonia laevigata (Ar)	5	1.0	0.4	52.5
Leptochela papulata (Ar)	5	1.0	0.3	52.5
Amphipoda (Ar)	5	1.0	0.6	52.5
Nemertinea	5	1.0	0.4	52.5
Corbula contracta (Mo)	5	1.0	0.4	52.5
Gouldia cerina (Mo)	5	1.0	0.4	52.5
Ischnochitonidae A (Mo)	5	1.0	1.0	52.5
Lithophaga sp. (Mo)	5	1.0	0.6	52.5
Sipunculida	5	1.0	0.5	52.5
Serpulidae A (An)	5	1.0	0.8	52.5
Notomastus latericeus (An)	5	1.0	0.5	52.5
Polycirrus carolinensis (An)	5	1.0	0.6	52.5
Eunice vittata (An)	5	1.0	0.6	52.5
Sabellidae (An)	5	1.0	0.5	52.5

Appendix 10 (Continued)

ISO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Cirratulidae (An)	5	1.0	0.8	52.5
Pseudaxinella sp. A (Po)	4	0.8	0.5	68.5
Gitanopsis sp. (Ar)	4	0.8	0.2	68.5
Turbellaria (Pl)	4	0.8	0.8	68.5
Ophiuroidea (Ech)	4	0.8	0.4	68.5
Polyplacophora (Mo)	4	0.8	0.8	68.5
Gastrochaena hians (Mo)	4	0.8	0.4	68.5
Glycera tesselata (An)	4	0.8	0.5	68.5
Harmothoe sp. A (An)	4	0.8	0.6	68.5
Megalomma bioculatum (An)	4	0.8	0.6	68.5
Owenia fusiformis (An)	4	0.8	0.8	68.5
Websterinereis tridentata (An)	4	0.8	0.6	68.5
Polydora websteri (An)	4	0.8	0.8	68.5
Nereidae (An)	4	0.8	0.4	68.5
Cirratulidae A (An)	4	0.8	0.5	68.5
Terebellidae (An)	4	0.8	0.6	68.5
Schistomeringos rudolphi (An)	4	0.8	0.8	68.5
Hemectyon pearsei (Po)	3	0.6	0.4	93.0
Cinachyra kuekenthali (Po)	3	0.6	0.2	93.0
Hadromerida C (Po)	3	0.6	0.4	93.0
Ciocalapata gibbsi (Po)	3	0.6	0.2	93.0
Sicyonia dorsalis (Ar)	3	0.6	0.6	93.0
Paguristes tortugae (Ar)	3	0.6	0.4	93.0
Pitho lherminieri (Ar)	3	0.6	0.4	93.0
Pelia mutica (Ar)	3	0.6	0.2	93.0
Inachoides forceps (Ar)	3	0.6	0.4	93.0
Megaluropus sp. (Ar)	3	0.6	0.4	93.0
Ostracoda (Ar)	3	0.6	0.4	93.0
Bowmaniella portoricensis (Ar)	3	0.6	0.4	93.0
Unciola serrata (Ar)	3	0.6	0.6	93.0
Leucothoe spinicarpa (Ar)	3	0.6	0.6	93.0
Tanystylum calicirostre (Ar)	3	0.6	0.4	93.0
Ophiothrix sp. (Ech)	3	0.6	0:6	93.0
Pteria colymbus (Mo)	3	0.6	0.4	93.0
Marginella roscida (Mo)	3	0.6	0.4	93.0
Veneridae (Mo)	3	0.6	0.4	93.0
Magelona sp. (An)	3	0.6	0.6	93.0
Exogone sp. A (An)	3	0.6	0.6	93.0
Malacoceros glutaeus (An)	3	0.6	0.4	93.0
Onuphis sp. (An)	3	0.6	0.4	93.0
Hydroides crucigera (An)	3	0.6	0.4	93.0
Hydroides sp. A (An)	3	0.6	0.6	93.0
Hydroides sp. B (An)	3	0.6	0.6	93.0
Sabellaria vulgaris (An)	3	0.6	0.4	93.0
Laonice cirrata (An)	3	0.6	0.4	93.0
Spionidae (An)	3	0.6	0.4	93.0
Spionidae A (An)	3	0.6	0.6	93.0
Spionidae B (An)	3	0.6	0.6	93.0
Prionospio cristata (An)	3	0.6	0.4	93.0
Petaloproctus socialis (An)	3	0.6	0.4	93.0
Styela sp. (Ch)	2	0.4	0.4	125.5
Higginsia strigilata (Po)	2	0.4	0.2	125.5
Anthosigmella varians (Po)	2	0.4	0.2	125.5
Craniellidae B (Po)	2	0.4	0.2	125.5
Sicyonia brevirostris (Ar)	2	0.4	0.2	125.5
Pinnixa cylindrica (Ar)	2	0.4	0.2	125.5
Ceradocus sp. (Ar)	2	0.4	0.2	125.5
Stenothoe sp. A (Ar)	2	0.4	0.4	125.5
Amphipoda B (Ar)	2	0.4	0.2	125.5

Appendix 10 (Continued)

ISO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Anoplodactylus insignis (Ar)	2	0.4	0.2	125.5
Lytechinus variegatus (Ech)	2	0.4	0.2	125.5
Glycymeris pectinata (Mo)	2	0.4	0.2	125.5
Acanthochitona sp. A (Mo)	2	0.4	0.2	125.5
Sipunculida A	2	0.4	0.4	125.5
Eunice antennata (An)	2	0.4	0.4	125.5
Hydroides uncinata (An)	2	0.4	0.2	125.5
Phyllodoce fragilis (An)	2	0.4	0.2	125.5
Amaeana sp. (An)	2	0.4	0.4	125.5
Paranaitis sp. (An)	2	0.4	0.4	125.5
Lumbrineris latreilli (An)	2	0.4	0.4	125.5
Nephtys squamosa (An)	2	0.4	0.4	125.5
Polycirrus eximius (An)	2	0.4	0.2	125.5
Arabella mutans (An)	2	0.4	0.4	125.5
Oligochaeta (An)	2	0.4	0.2	125.5
Mediomastus californiensis (An)	2	0.4	0.2	125.5
Sabellidae A (An)	2	0.4	0.4	125.5
Proceraea fasciata (An)	2	0.4	0.4	125.5
Terebellidae A (An)	2	0.4	0.2	125.5
Phyllodocidae (An)	2	0.4	0.2	125.5
Syllis spongicola (An)	2	0.4	0.2	125.5
Chrysopetalidae C (An)	2	0.4	0.2	125.5
Syllis hyalina (An)	2	0.4	0.2	125.5
Molgula occidentalis (Ch)	1	0.2	0.2	192.5
Styela sp. (?) (Ch)	1	0.2	0.2	192.5
Axinella bookhouti (Po)	1	0.2	0.2	192.5
Halichondria bowerbanki (Po)	1	0.2	0.2	192.5
Cinachyra alloclada (Po)	1	0.2	0.2	192.5
Ircinia ramosa (Po)	1	0.2	0.2	192.5
Hadromerida B (Po)	1	0.2	0.2	192.5
Halichondriida F (Po)	1	0.2	0.2	192.5
Poecilosclerida F (Po)	1	0.2	0.2	192.5
Demospongea B (Po)	1	0.2	0.2	192.5
Pseudaxinella lunaecharta (Po)	1	0.2	0.2	192.5
Hemiasterellidae A (Po)	1	0.2	0.2	192.5
Sicyonia typica (Ar)	1	0.2	0.2	192.5
Periclimenes longicaudatus (Ar)	1	0.2	0.2	192.5
Neopontonides beaufortensis (Ar)	1	0.2	0.2	192.5
Alpheus normanni (Ar)	1	0.2	0.2	192.5
Pilumnus sayi (Ar)	1	0.2	0.2	192.5
Mithrax pleuracanthus (Ar)	1	0.2	0.2	192.5
Macrocoeloma camptocerum (Ar)	1	0.2	0.2	192.5
Heterocrypta granulata (Ar)	1	0.2	0.2	192.5
Sicyonia sp. (Ar)	1	0.2	0.2	192.5
Xanthidae (Ar)	1	0.2	0.2	192.5
Portunus sp. (Ar)	1	0.2	0.2	192.5
Pagurus sp. (Ar)	1	0.2	0.2	192.5
Lysmata sp. (Ar)	1	0.2	0.2	192.5
Caridea (Ar)	1	0.2	0.2	192.5
Micropanope sp. (Ar)	1	0.2	0.2	192.5
Liljeborgia sp. (Ar)	1	0.2	0.2	192.5
Maera caroliniana (Ar)	1	0.2	0.2	192.5
Phyllocarida (Ar)	1	0.2	0.2	192.5
Ampelisca verrilli (Ar)	1	0.2	0.2	192.5
Cyclaspis varians (Ar)	1	0.2	0.2	192.5
Phtisica marina (Ar)	1	0.2	0.2	192.5
Maera sp. A (Ar)	1	0.2	0.2	192.5
Leptognatha caeca (Ar)	1	0.2	0.2	192.5
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	192.5

Appendix 10 (Continued)

ISO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Amphiodia pulchella (Ech)	1	0.2	0.2	192.5
Echinaster sp. B (Ech)	1	0.2	0.2	192.5
Ophiostigma isacanthum (Ech)	1	0.2	0.2	192.5
Amphiuridae (Ech)	1	0.2	0.2	192.5
Ophiothinicidae (Ech)	1	0.2	0.2	192.5
Arbaciidae (Ech)	1	0.2	0.2	192.5
Natica pusilla (Mo)	1	0.2	0.2	192.5
Fissurellidae (Mo)	1	0.2	0.2	192.5
Marginella hartleyanum (Mo)	1	0.2	0.2	192.5
Marginella aureocincta (Mo)	1	0.2	0.2	192.5
Marginellidae (Mo)	1	0.2	0.2	192.5
Strombiformis bilineatus (?) (Mo)	1	0.2	0.2	192.5
Turbonilla hemphilli (?) (Mo)	1	0.2	0.2	192.5
Laevicardium laevigatum (Mo)	1	0.2	0.2	192.5
Musculus sp. A (Mo)	1	0.2	0.2	192.5
Seila adamsi (Mo)	1	0.2	0.2	192.5
Marginella virginiana (Mo)	1	0.2	0.2	192.5
Melanella jamaicensis (Mo)	1	0.2	0.2	192.5
Dendrodoris sp. A (Mo)	1	0.2	0.2	192.5
Pleuromeris tridentata (Mo)	1	0.2	0.2	192.5
Glycymeris sp. (Mo)	1	0.2	0.2	192.5
Lithophaga aristata (Mo)	1	0.2	0.2	192.5
Pleuromeris perplana (Mo)	1	0.2	0.2	192.5
Dondice occidentalis (Mo)	1	0.2	0.2	192.5
Murex sp. (Mo)	1	0.2	0.2	192.5
Sipunculida B	1	0.2	0.2	192.5
Polychaeta A (An)	1	0.2	0.2	192.5
Polychaeta B (An)	1	0.2	0.2	192.5
Vermiliopsis annulata (An)	1	0.2	0.2	192.5
Metavermilia multicristata (An)	1	0.2	0.2	192.5
Syllis gracilis (An)	1	0.2	0.2	192.5
Serpulidae (An)	1	0.2	0.2	192.5
Serpulidae B (An)	1	0.2	0.2	192.5
Exogone verugera (An)	1	0.2	0.2	192.5
Scalibregma inflatum (An)	1	0.2	0.2	192.5
Sabellaria floridensis (An)	1	0.2	0.2	192.5
Harmothoe sp. (An)	1	0.2	0.2	192.5
Phascolopsis gouldi (?) (An)	1	0.2	0.2	192.5
Exogone sp. (An)	1	0.2	0.2	192.5
Eunice tenuis (?) (An)	1	0.2	0.2	192.5
Sabellaria vulgaris beaufortensis (An)	1	0.2	0.2	192.5
Eunice sp. (An)	1	0.2	0.2	192.5
Proceraea sp. (An)	1	0.2	0.2	192.5
Ceratonereis versipedata (An)	1	0.2	0.2	192.5
Syllis alternata (An)	1	0.2	0.2	192.5
Ceratonereis sp. (An)	1	0.2	0.2	192.5
Dodecaceria corallii (An)	1	0.2	0.2	192.5
Lumbrineridae (An)	1	0.2	0.2	192.5
Pherusa ehlersi (An)	1	0.2	0.2	192.5
Notomastus lobatus (An)	1	0.2	0.2	192.5
Goniadides carolinae (An)	1	0.2	0.2	192.5
Hydroides protulicola (An)	1	0.2	0.2	192.5
Diopatra cuprea (An)	1	0.2	0.2	192.5
Arabella iricolor (An)	1	0.2	0.2	192.5
Drilonereis magna (An)	1	0.2	0.2	192.5
Pherusa inflata (An)	1	0.2	0.2	192.5
Poecilochaetus sp. (An)	1	0.2	0.2	192.5
Syllis sp. (An)	1	0.2	0.2	192.5
Syllis sp. A (An)	1	0.2	0.2	192.5

Appendix 10 (Continued)

IS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Lumbrineris sp. (An)	1	0.2	0.2	192.5
Lysidice ninetta (An)	1	0.2	0.2	192.5
Ceratocephale sp. (An)	1	0.2	0.2	192.5
Eulalia sanguinea (An)	1	0.2	0.2	192.5
Prionospio cirrifera (An)	1	0.2	0.2	192.5
Chrysopetalidae B (An)	1	0.2	0.2	192.5
Isolda pulchella (An)	1	0.2	0.2	192.5

Miscellaneous Colonial Invertebrates and Algae
Poecilosclerida D (Po)
Microcionidae B (Po)
Timea mixta (Po)
Euryponidae A (Po)
Pandaros acanthifolium (Po)
Hadromerida C (Po)
Pseudaxinella sp. A (Po)
Hemectyon pearsei (Po)
Halichondria bowerbanki (Po)
Hadromerida A (Po)
Ciocalatata gibbsi (Po)
Halichondriida H (Po)
Algae

Appendix 10 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Exogone dispar (An)	230	46.0	9.8	1.0
Lembos smithi (Ar)	211	42.2	12.4	2.0
Photis sp. (Ar)	172	34.4	9.5	3.0
Luconacia incerta (Ar)	104	20.8	6.4	4.0
Ophiothrix angulata (Ech)	89	17.8	5.7	5.0
Podocerus sp. (Ar)	86	17.2	12.7	6.0
Mediomastus californiensis (An)	78	15.6	15.4	7.0
Ampelisca agassizi (Ar)	76	15.2	4.2	8.0
Oxyurostylis smithi (Ar)	75	15.0	7.7	9.0
Lumbrineris inflata (An)	62	12.4	4.2	10.0
Megalobrachium soriatum (Ar)	59	11.8	4.9	11.0
Polycirrus carolinensis (An)	48	9.6	4.6	12.0
Erichthonius brasiliensis (Ar)	46	9.2	8.4	13.0
Syllis gracilis (An)	43	8.6	3.3	14.0
Elasmopus sp. A (Ar)	42	8.4	4.0	15.0
Prionospio cristata (An)	39	7.8	7.8	16.0
Ophiothrix sp. (Ech)	34	6.8	1.9	17.0
Amphiodia pulchella (Ech)	31	6.2	2.8	18.0
Prionospio cirrifera (An)	29	5.8	5.8	19.0
Aspidosiphon spinalis (Si)	28	5.6	2.5	20.0
Polydora tetrabranchia (An)	27	5.4	5.4	21.0
Paracerceis caudata (Ar)	25	5.0	2.3	23.5
Phyllodoce fragilis (An)	25	5.0	1.9	23.5
Websterinereis tridentata (An)	25	5.0	3.3	23.5
Pista quadrilobata (An)	25	5.0	1.7	23.5
Ophiuroidea (Ech)	24	4.8	0.8	27.0
Filograna implexa (An)	24	4.8	4.8	27.0
Syllis spongicola (An)	24	4.8	3.1	27.0
Odontosyllis fulgurans (An)	23	4.6	3.5	29.0
Syllis hyalina (An)	22	4.4	1.4	30.0
Ascidiacea D (Ch)	19	3.8	2.9	31.0
Sipunculida A	18	3.6	2.1	32.5
Autolytus sp. (An)	18	3.6	2.0	32.5
Amphithoe sp. A (Ar)	17	3.4	1.5	35.0
Eulalia macroceros (An)	17	3.4	1.0	35.0
Eulalia sanguinea (An)	17	3.4	0.5	35.0
Pilumnus sp. (Ar)	16	3.2	2.5	38.0
Lembos unicornis (Ar)	16	3.2	1.6	38.0
Nematoda	16	3.2	1.6	38.0
Pilumnus floridanus (Ar)	14	2.8	2.1	40.0
Owenia fusiformis (An)	13	2.6	1.9	41.5
Podarke obscura (An)	13	2.6	0.9	41.5
Maera sp. A (Ar)	12	2.4	1.5	44.0
Anachis iontha (Mo)	12	2.4	1.5	44.0
Chrysopetalidae A (An)	12	2.4	0.8	44.0
Pherusa ehlersi (An)	11	2.2	0.9	46.0
Paguristes tortugae (Ar)	10	2.0	1.4	48.5
Anoplodactylus petiolatus (Ar)	10	2.0	0.9	48.5
Pelecypoda (Mo)	10	2.0	0.7	48.5
Sabellaria vulgaris beaufortensis (An)	10	2.0	0.8	48.5
Pagurus carolinensis (Ar)	9	1.8	1.3	51.5
Tellina sp. (Mo)	9	1.8	1.1	51.5
Lysianopsis alba (Ar)	8	1.6	0.7	53.5
Pherusa inflata (An)	8	1.6	0.4	53.5
Synalpheus townsendi (Ar)	7	1.4	0.7	57.5
Amphipoda E (Ar)	7	1.4	0.5	57.5
Crepidula aculeata (Mo)	7	1.4	1.2	57.5
Pisania tincta (?) (Mo)	7	1.4	1.4	57.5
Armandia maculata (An)	7	1.4	1.4	57.5

Appendix 10 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Ampharete americana (An)	7	1.4	0.5	57.5
Spirastrella coccinea (Po)	6	1.2	0.8	64.0
Paguridae (Ar)	6	1.2	1.2	64.0
Caprellidae A (Ar)	6	1.2	0.7	64.0
Melita appendiculata (Ar)	6	1.2	0.7	64.0
Turbellaria (Pl)	6	1.2	0.6	64.0
Amphiuridae (Ech)	6	1.2	1.2	64.0
Vermilicpsis annulata (An)	6	1.2	0.7	64.0
Styela plicata (Ch)	5	1.0	0.8	73.5
Leptochelia sp. (Ar)	5	1.0	0.8	73.5
Turbonilla hemphilli (?) (Mo)	5	1.0	0.4	73.5
Musculus sp. A (Mo)	5	1.0	0.8	73.5
Pista palmata (An)	5	1.0	0.6	73.5
Sabellaria vulgaris (An)	5	1.0	1.0	73.5
Syllis regulata carolinae (An)	5	1.0	0.5	73.5
Syllis sp. B (An)	5	1.0	1.0	73.5
Sabellidae (An)	5	1.0	0.5	73.5
Syllidae A (An)	5	1.0	0.3	73.5
Polydora caeca (An)	5	1.0	0.5	73.5
Phyllodocidae (An)	5	1.0	0.8	73.5
Sicyonia laevigata (Ar)	4	0.8	0.6	86.5
Pseudomedaeus agassizii (Ar)	4	0.8	0.6	86.5
Polycheria sp. (Ar)	4	0.8	0.2	86.5
Unciola laminosa (Ar)	4	0.8	0.6	86.5
Ampelisca verrilli (Ar)	4	0.8	0.8	86.5
Diodora cayenensis (Mo)	4	0.8	0.6	86.5
Chama sp. (Mo)	4	0.8	0.5	86.5
Laevicardium sp. (Mo)	4	0.8	0.8	86.5
Syllis alternata (An)	4	0.8	0.4	86.5
Trypanosyllis zebra (An)	4	0.8	0.4	86.5
Spiophanes bombyx (An)	4	0.8	0.6	86.5
Spionidae (An)	4	0.8	0.8	86.5
Syllidae (An)	4	0.8	0.6	86.5
Phyllodocidae A (An)	4	0.8	0.8	86.5
Xanthidae (Ar)	3	0.6	0.4	101.5
Synalpheus sp. (Ar)	3	0.6	0.4	101.5
Liljeborgia sp. (Ar)	3	0.6	0.4	101.5
Apseudes sp. (Ar)	3	0.6	0.6	101.5
Lysianassa sp. (Ar)	3	0.6	0.4	101.5
Apanthura magnifica (Ar)	3	0.6	0.4	101.5
Amphipoda (Ar)	3	0.6	0.6	101.5
Anomia simplex (Mo)	3	0.6	0.2	101.5
Mangelia rugirima (Mo)	3	0.6	0.6	101.5
Seila adamsi (Mo)	3	0.6	0.6	101.5
Glycera tesselata (An)	3	0.6	0.4	101.5
Serpulidae C (An)	3	0.6	0.4	101.5
Hydroides sp. A (An)	3	0.6	0.4	101.5
Syllis sp. A (An)	3	0.6	0.6	101.5
Eunice vittata (An)	3	0.6	0.2	101.5
Terebellidae (An)	3	0.6	0.6	101.5
Ircinia ramosa (Po)	2	0.4	0.4	130.0
Chondrilla nucula (Po)	2	0.4	0.4	130.0
Sicyonia dorsalis (Ar)	2	0.4	0.4	130.0
Pilumnus dasypodus (Ar)	2	0.4	0.4	130.0
Pilumnus pannosus (Ar)	2	0.4	0.2	130.0
Nanoplax xanthiformis (Ar)	2	0.4	0.4	130.0
Pagurus sp. (Ar)	2	0.4	0.4	130.0
Mithrax sp. (Ar)	2	0.4	0.2	130.0
Panopeus sp. (Ar)	2	0.4	0.4	130.0

Appendix 10 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m² $\bar{x}$	SE	Rank by Number
Erichsonella filiformis (Ar)	2	0.4	0.2	130.0
Ceradocus sp. (Ar)	2	0.4	0.2	130.0
Tanaidacea A (Ar)	2	0.4	0.2	130.0
Leucothoe spinicarpa (Ar)	2	0.4	0.2	130.0
Microdeutopus myersi (Ar)	2	0.4	0.2	130.0
Tanystylidae A (Ar)	2	0.4	0.4	130.0
Nemertinea	2	0.4	0.2	130.0
Arbaciidae (Ech)	2	0.4	0.2	130.0
Thyone sp. (Ech)	2	0.4	0.2	130.0
Laevicardium laevigatum (Mo)	2	0.4	0.4	130.0
Chione grus (Mo)	2	0.4	0.2	130.0
Gouldia cerina (Mo)	2	0.4	0.2	130.0
Amygdalum papyrium (Mo)	2	0.4	0.4	130.0
Arca sp. (Mo)	2	0.4	0.4	130.0
Lithophaga sp. (Mo)	2	0.4	0.2	130.0
Anadara sp. (Mo)	2	0.4	0.4	130.0
Lithophaga aristata (Mo)	2	0.4	0.4	130.0
Veneridae (Mo)	2	0.4	0.2	130.0
Sipunculida	2	0.4	0.4	130.0
Polychaeta C (An)	2	0.4	0.4	130.0
Malacoceros glutaeus (An)	2	0.4	0.2	130.0
Megalomma bioculatum (An)	2	0.4	0.4	130.0
Sabellaria sp. A (An)	2	0.4	0.2	130.0
Lumbrineris impatiens (An)	2	0.4	0.4	130.0
Laonice cirrata (An)	2	0.4	0.4	130.0
Polydora socialis (An)	2	0.4	0.4	130.0
Nereis lamellosa (An)	2	0.4	0.2	130.0
Nereidae A (An)	2	0.4	0.4	130.0
Polydora sp. (An)	2	0.4	0.2	130.0
Syllidae B (An)	2	0.4	0.4	130.0
Phyllodoce arenae (An)	2	0.4	0.4	130.0
Chrysopetalidae B (An)	2	0.4	0.4	130.0
Amaroucium sp. (Ch)	1	0.2	0.2	190.0
Didemnum sp. (Ch)	1	0.2	0.2	190.0
Homaxinella waltonsmithi (Po)	1	0.2	0.2	190.0
Chondrosia collectrix (Po)	1	0.2	0.2	190.0
Cinachyra kuekenthali (Po)	1	0.2	0.2	190.0
Tricheurypon sp. A (Po)	1	0.2	0.2	190.0
Hadromerida C (Po)	1	0.2	0.2	190.0
Synalpheus fritzmuelleri (Ar)	1	0.2	0.2	190.0
Synalpheus minus (Ar)	1	0.2	0.2	190.0
Pilumnus sayi (Ar)	1	0.2	0.2	190.0
Panopeus occidentalis (Ar)	1	0.2	0.2	190.0
Pelia mutica (Ar)	1	0.2	0.2	190.0
Microphrys antillensis (Ar)	1	0.2	0.2	190.0
Sicyonia sp. (Ar)	1	0.2	0.2	190.0
Mithrax acuticornis (Ar)	1	0.2	0.2	190.0
Thor sp. (Ar)	1	0.2	0.2	190.0
Hemus cristulipes (Ar)	1	0.2	0.2	190.0
Hippolyte sp. (Ar)	1	0.2	0.2	190.0
Alpheus sp. (Ar)	1	0.2	0.2	190.0
Carpias bermudensis (Ar)	1	0.2	0.2	190.0
Maera williamsi (Ar)	1	0.2	0.2	190.0
Paraphoxus spinosus (Ar)	1	0.2	0.2	190.0
Cerapus tubularis (Ar)	1	0.2	0.2	190.0
Apseudes sp. A (Ar)	1	0.2	0.2	190.0
Bodotriidae A (Ar)	1	0.2	0.2	190.0
Bodotriidae C (Ar)	1	0.2	0.2	190.0
Anoplodactylus insignis (Ar)	1	0.2	0.2	190.0

Appendix 10 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Nymphonidae A (Ar)	1	0.2	0.2	190.0
Arbacia punctulata (Ech)	1	0.2	0.2	190.0
Echinaster sp. B (Ech)	1	0.2	0.2	190.0
Semele bellastriata (Mo)	1	0.2	0.2	190.0
Gastrochaena hians (Mo)	1	0.2	0.2	190.0
Epitonium candeanum (?) (Mo)	1	0.2	0.2	190.0
Turbonilla interrupta (Mo)	1	0.2	0.2	190.0
Barbatia candida (Mo)	1	0.2	0.2	190.0
Pteria colymbus (Mo)	1	0.2	0.2	190.0
Gastropoda (Mo)	1	0.2	0.2	190.0
Murex florifer dilectus (Mo)	1	0.2	0.2	190.0
Chama congregata (Mo)	1	0.2	0.2	190.0
Cerithiopsis emersoni (Mo)	1	0.2	0.2	190.0
Lioberus castaneus (Mo)	1	0.2	0.2	190.0
Cumingia coarctata (?) (Mo)	1	0.2	0.2	190.0
Trochidae (Mo)	1	0.2	0.2	190.0
Mytilidae (Mo)	1	0.2	0.2	190.0
Aspidosiphon misakiensis (Si)	1	0.2	0.2	190.0
Sipunculida C	1	0.2	0.2	190.0
Ampharete acutifrons (An)	1	0.2	0.2	190.0
Eunice antennata (An)	1	0.2	0.2	190.0
Harmothoe sp. (An)	1	0.2	0.2	190.0
Harmothoe sp. A (An)	1	0.2	0.2	190.0
Sabellaria vulgaris vulgaris (An)	1	0.2	0.2	190.0
Phyllochaetopterus socialis (An)	1	0.2	0.2	190.0
Ceratonereis versipedata (An)	1	0.2	0.2	190.0
Hydroides sp. (An)	1	0.2	0.2	190.0
Hydroides sp. B (An)	1	0.2	0.2	190.0
Naineris sp. (An)	1	0.2	0.2	190.0
Ancistrosyllis rigida (An)	1	0.2	0.2	190.0
Eunice filamentosa (An)	1	0.2	0.2	190.0
Dasybranchus lunulatus (An)	1	0.2	0.2	190.0
Timarete sp. (An)	1	0.2	0.2	190.0
Ceratonereis mirabilis (An)	1	0.2	0.2	190.0
Cirratulus sp. A (An)	1	0.2	0.2	190.0
Sthenelais boa (An)	1	0.2	0.2	190.0
Nereis acuminata (An)	1	0.2	0.2	190.0
Loimia medusa (An)	1	0.2	0.2	190.0
Axiothella mucosa (An)	1	0.2	0.2	190.0
Phyllodoce castanea (An)	1	0.2	0.2	190.0
Phyllodoce longipes (An)	1	0.2	0.2	190.0
Amphitrite ornata (An)	1	0.2	0.2	190.0
Poecilochaetus sp. (An)	1	0.2	0.2	190.0
Syllis sp. C (An)	1	0.2	0.2	190.0
Orbiniidae (An)	1	0.2	0.2	190.0
Spio pettiboneae (An)	1	0.2	0.2	190.0
Maldanidae A (An)	1	0.2	0.2	190.0
Cirratulidae (An)	1	0.2	0.2	190.0
Polydora sp. A (An)	1	0.2	0.2	190.0
Proceraea fasciata (An)	1	0.2	0.2	190.0
Schistomeringos rudolphi (An)	1	0.2	0.2	190.0
Polynoidae (An)	1	0.2	0.2	190.0

Miscellaneous Colonial Invertebrates and Algae
Distaplia sp. (Ch)
Ascidiacea D (Ch)
Poecilosclerida F (Po)
Poecilosclerida G (Po)
Amaroucium stellatum (Ch)

Appendix 10 (Continued)

Diplosoma macdonaldi (Ch)
Didemnidae (Ch)
Ascidiacea (Ch)
Halichondria bowerbanki (Po)
Cinachyra alloclada (Po)
Ciocalatata gibbsi (Po)
Algae

Appendix 10 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{X}$	SE	Rank by Number
Exogone dispar (An)	301	60.2	9.3	1.0
Ophiothrix angulata (Ech)	196	39.2	10.2	2.0
Aspidosiphon spinalis (Si)	155	31.0	3.0	3.0
Tanaidacea A (Ar)	123	24.6	12.3	4.0
Ampharete americana (An)	118	23.6	5.3	5.0
Sabellaria vulgaris beaufortensis (An)	110	22.0	6.2	6.0
Ampelisca agassizi (Ar)	92	18.4	5.0	7.0
Owenia fusiformis (An)	88	17.6	5.7	8.0
Erichthonius brasiliensis (Ar)	86	17.2	5.5	9.0
Photis sp. (Ar)	79	15.8	4.0	10.0
Ophiothrix sp. (Ech)	77	15.4	5.4	11.0
Ampelisca vadorum (Ar)	69	13.8	3.7	12.0
Podocerus sp. (Ar)	60	12.0	3.1	13.0
Mediomastus californiensis (An)	56	11.2	6.4	14.0
Lumbrineris inflata (An)	42	8.4	1.8	15.0
Megalobrachium soriatum (Ar)	38	7.6	1.1	16.0
Lembos smithi (Ar)	36	7.2	3.1	17.0
Amphithoe sp. A (Ar)	31	6.2	5.0	18.5
Ophiuroidea (Ech)	31	6.2	1.2	18.5
Luconacia incerta (Ar)	29	5.8	1.2	20.0
Sipunculida A	26	5.2	1.5	21.5
Axiothella mucosa (An)	26	5.2	2.3	21.5
Syllis spongicola (An)	25	5.0	1.5	23.0
Syllis gracilis (An)	24	4.8	1.9	24.0
Crepidula aculeata (Mo)	23	4.6	2.9	25.0
Chone americana (An)	22	4.4	1.2	26.5
Nicomache trispinata (An)	22	4.4	2.3	26.5
Amphiodia pulchella (Ech)	20	4.0	1.4	28.5
Polycirrus carolinensis (An)	20	4.0	0.6	28.5
Lembos unicornis (Ar)	18	3.6	1.1	30.5
Pista quadrilobata (An)	18	3.6	2.0	30.5
Elasmopus sp. A (Ar)	17	3.4	0.9	33.5
Websterinereis tridentata (An)	17	3.4	0.7	33.5
Pherusa inflata (An)	17	3.4	0.5	33.5
Syllis hyalina (An)	17	3.4	1.6	33.5
Cinachyra kuekenthali (Po)	16	3.2	1.6	36.5
Anachis hotessieriana (Mo)	16	3.2	2.0	36.5
Pelia mutica (Ar)	15	3.0	0.6	39.0
Pagurus carolinensis (Ar)	15	3.0	1.6	39.0
Apanthura magnifica (Ar)	15	3.0	1.1	39.0
Mitrella lunata (Mo)	14	2.8	1.2	41.5
Streblosoma sp. (An)	14	2.8	1.0	41.5
Oxyurostylis smithi (Ar)	13	2.6	0.6	43.5
Eulalia sanguinea (An)	13	2.6	1.2	43.5
Musculus sp. A (Mo)	12	2.4	1.4	45.0
Eulalia macroceros (An)	11	2.2	0.7	46.5
Syllidae A (An)	11	2.2	0.8	46.5
Nemertinea	10	2.0	0.6	50.5
Nematoda	10	2.0	0.7	50.5
Megalomma bioculatum (An)	10	2.0	0.7	50.5
Pherusa ehlersi (An)	10	2.0	0.3	50.5
Prionospio cristata (An)	10	2.0	1.5	50.5
Chrysopetalidae A (An)	10	2.0	0.3	50.5
Mytilidae (Mo)	9	1.8	1.0	54.5
Turbonilla sp. (Mo)	9	1.8	1.1	54.5
Paguristes tortugae (Ar)	8	1.6	1.0	57.5
Pseudomedaeus agassizii (Ar)	8	1.6	0.2	57.5
Paracerceis caudata (Ar)	8	1.6	0.7	57.5
Sabellaria floridensis (An)	8	1.6	0.7	57.5
Cinachyra alloclada (Po)	7	1.4	1.0	63.5

Appendix 10 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Carpias bermudensis (Ar)	7	1.4	0.7	63.5
Caprellidae A (Ar)	7	1.4	0.7	63.5
Arca zebra (Mo)	7	1.4	1.2	63.5
Turbonilla hemphilli (?) (Mo)	7	1.4	1.4	63.5
Sipunculida	7	1.4	0.5	63.5
Sabellaria vulgaris vulgaris (An)	7	1.4	0.4	63.5
Potamilla sp. (An)	7	1.4	0.7	63.5
Turbellaria (Pl)	6	1.2	0.4	73.0
Amphiuridae (Ech)	6	1.2	0.8	73.0
Strombiformis bilineatus (?) (Mo)	6	1.2	0.5	73.0
Modiolus americanus (Mo)	6	1.2	0.8	73.0
Anachis lafresnayi (Mo)	6	1.2	1.2	73.0
Cumingia coarctata (?) (Mo)	6	1.2	0.7	73.0
Hydroides sp. B (An)	6	1.2	0.4	73.0
Autolytus sp. (An)	6	1.2	0.6	73.0
Pista palmata (An)	6	1.2	0.7	73.0
Lumbrineris coccinea (An)	6	1.2	0.7	73.0
Phyllodocidae (An)	6	1.2	1.0	73.0
Sicyonia laevigata (Ar)	5	1.0	0.5	82.5
Micropanope sp. (Ar)	5	1.0	0.6	82.5
Apseudes sp. C (Ar)	5	1.0	0.6	82.5
Simnia acicularis (?) (Mo)	5	1.0	1.0	82.5
Veneridae (Mo)	5	1.0	0.3	82.5
Eunice filamentosa (An)	5	1.0	0.6	82.5
Polycirrus eximius (An)	5	1.0	0.5	82.5
Odontosyllis fulgurans (An)	5	1.0	0.5	82.5
Paguridea (Ar)	4	0.8	0.8	93.0
Maera sp. A (Ar)	4	0.8	0.6	93.0
Marginella aureocincta (Mo)	4	0.8	0.5	93.0
Gouldia cerina (Mo)	4	0.8	0.6	93.0
Pelecypoda (Mo)	4	0.8	0.5	93.0
Chama congregata (Mo)	4	0.8	0.8	93.0
Chama sp. (Mo)	4	0.8	0.6	93.0
Chione pygmaea (Mo)	4	0.8	0.5	93.0
Trochidae (Mo)	4	0.8	0.5	93.0
Parviturboides interruptus (Mo)	4	0.8	0.5	93.0
Serpulidae C (An)	4	0.8	0.6	93.0
Naineris sp. (An)	4	0.8	0.6	93.0
Sabellaria sp. A (An)	4	0.8	0.5	93.0
Pyura vittata (Ch)	3	0.6	0.2	113.0
Aplidium sp. (Ch)	3	0.6	0.4	113.0
Clavelina gigantea (Ch)	3	0.6	0.6	113.0
Homaxinella waltonsmithi (Po)	3	0.6	0.4	113.0
Ircinia ramosa (Po)	3	0.6	0.4	113.0
Pitho lherminieri (Ar)	3	0.6	0.6	113.0
Palaemonidae (?) (Ar)	3	0.6	0.6	113.0
Lysianopsis alba (Ar)	3	0.6	0.6	113.0
Ophiostigma isacanthum (Ech)	3	0.6	0.2	113.0
Thyone sp. (Ech)	3	0.6	0.6	113.0
Pteria colymbus (Mo)	3	0.6	0.4	113.0
Tellina sp. (Mo)	3	0.6	0.2	113.0
Gastropoda (Mo)	3	0.6	0.2	113.0
Marginella sp. (Mo)	3	0.6	0.6	113.0
Cumingia coarctata (Mo)	3	0.6	0.6	113.0
Crassinella lunulata (Mo)	3	0.6	0.4	113.0
Marginella lavalleeana (Mo)	3	0.6	0.6	113.0
Serpulidae D (An)	3	0.6	0.4	113.0
Syllis alternata (An)	3	0.6	0.2	113.0
Dasybranchus lunulatus (An)	3	0.6	0.6	113.0

Appendix 10 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Syllis regulata carolinae (An)	3	0.6	0.4	113.0
Spiophanes bombyx (An)	3	0.6	0.2	113.0
Arabella mutans (An)	3	0.6	0.4	113.0
Prionospio cirrobranchiata (An)	3	0.6	0.4	113.0
Podarke obscura (An)	3	0.6	0.4	113.0
Nereis lamellosa (An)	3	0.6	0.6	113.0
Eunice vittata (An)	3	0.6	0.2	113.0
Styela plicata (Ch)	2	0.4	0.2	145.5
Hemectyon pearsei (Po)	2	0.4	0.2	145.5
Hadromerida B (Po)	2	0.4	0.2	145.5
Cranielldae B (Po)	2	0.4	0.2	145.5
Synalpheus townsendi (Ar)	2	0.4	0.4	145.5
Pilumnus sp. (Ar)	2	0.4	0.4	145.5
Speloeophorus pontifer (Ar)	2	0.4	0.2	145.5
Pilumnus floridanus (Ar)	2	0.4	0.4	145.5
Panopeus occidentalis (Ar)	2	0.4	0.2	145.5
Xanthidae (Ar)	2	0.4	0.2	145.5
Pagurus sp. (Ar)	2	0.4	0.4	145.5
Ostracoda (Ar)	2	0.4	0.4	145.5
Monoculodes sp. (Ar)	2	0.4	0.2	145.5
Leucothoe spinicarpa (Ar)	2	0.4	0.4	145.5
Microdeutopus myersi (Ar)	2	0.4	0.2	145.5
Arbacia punctulata (Ech)	2	0.4	0.4	145.5
Arbaciidae (Ech)	2	0.4	0.2	145.5
Gastrochaena hians (Mo)	2	0.4	0.2	145.5
Anadara transversa (Mo)	2	0.4	0.4	145.5
Semele purpurascens (Mo)	2	0.4	0.4	145.5
Cerithiopsis emersoni (Mo)	2	0.4	0.4	145.5
Amygdalum sp. (Mo)	2	0.4	0.2	145.5
Arcidae (Mo)	2	0.4	0.4	145.5
Serpulidae (An)	2	0.4	0.2	145.5
Hydroides uncinata (An)	2	0.4	0.2	145.5
Harmothoe sp. A (An)	2	0.4	0.4	145.5
Hydroides sp. A (An)	2	0.4	0.2	145.5
Loimia medusa (An)	2	0.4	0.2	145.5
Laenice cirrata (An)	2	0.4	0.2	145.5
Amphitrite ornata (An)	2	0.4	0.2	145.5
Spionidae (An)	2	0.4	0.2	145.5
Capitellidae (An)	2	0.4	0.2	145.5
Armandia maculata (An)	2	0.4	0.2	145.5
Scolelepis texana (An)	2	0.4	0.4	145.5
Polydora sp. (An)	2	0.4	0.4	145.5
Syllidae B (An)	2	0.4	0.2	145.5
Terebellidae B (An)	2	0.4	0.4	145.5
Sabella microphthalma (An)	2	0.4	0.2	145.5
Distaplia sp. (Ch)	1	0.2	0.2	214.0
Lissoclinum fragile (Ch)	1	0.2	0.2	214.0
Higginsia strigilata (Po)	1	0.2	0.2	214.0
Myriastra kallitetilla (Po)	1	0.2	0.2	214.0
Tricheurypon sp. A (Po)	1	0.2	0.2	214.0
Halichondriida E (Po)	1	0.2	0.2	214.0
Leptochela serratorbita (Ar)	1	0.2	0.2	214.0
Synalpheus minus (Ar)	1	0.2	0.2	214.0
Dromidia antillensis (Ar)	1	0.2	0.2	214.0
Pilumnus pannosus (Ar)	1	0.2	0.2	214.0
Pilumnus sayi (Ar)	1	0.2	0.2	214.0
Mithrax forceps (Ar)	1	0.2	0.2	214.0
Sicyonia sp. (Ar)	1	0.2	0.2	214.0
Caridea (Ar)	1	0.2	0.2	214.0

Appendix 10 (Continued)

IS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Hemus cristulipes (Ar)	1	0.2	0.2	214.0
Inachoides forceps (Ar)	1	0.2	0.2	214.0
Panopeus sp. (Ar)	1	0.2	0.2	214.0
Panopeus sp. (?) (Ar)	1	0.2	0.2	214.0
Pinnotheres sp. (Ar)	1	0.2	0.2	214.0
Podochela sp. (Ar)	1	0.2	0.2	214.0
Unciola laminosa (Ar)	1	0.2	0.2	214.0
Gammaropsis sp. (Ar)	1	0.2	0.2	214.0
Lysianassa sp. (Ar)	1	0.2	0.2	214.0
Phtisica marina (Ar)	1	0.2	0.2	214.0
Leptochelia sp. (Ar)	1	0.2	0.2	214.0
Colomastix sp. (Ar)	1	0.2	0.2	214.0
Anamixis sp. (Ar)	1	0.2	0.2	214.0
Accalanthura crenulata (Ar)	1	0.2	0.2	214.0
Stenothoe sp. A (Ar)	1	0.2	0.2	214.0
Chevalia sp. (Ar)	1	0.2	0.2	214.0
Lysianassidae (Ar)	1	0.2	0.2	214.0
Amphipoda E (Ar)	1	0.2	0.2	214.0
Ascorhynchus castelli (Ar)	1	0.2	0.2	214.0
Diodora cayenensis (Mo)	1	0.2	0.2	214.0
Marginellidae (Mo)	1	0.2	0.2	214.0
Crassispira sp. B (Mo)	1	0.2	0.2	214.0
Conus jaspideus stearnsi (Mo)	1	0.2	0.2	214.0
Turbonilla interrupta (Mo)	1	0.2	0.2	214.0
Nucula proxima (Mo)	1	0.2	0.2	214.0
Lyropecten nodosus (Mo)	1	0.2	0.2	214.0
Anomia simplex (Mo)	1	0.2	0.2	214.0
Trachycardium muricatum (Mo)	1	0.2	0.2	214.0
Chione grus (Mo)	1	0.2	0.2	214.0
Corbula dietziana (Mo)	1	0.2	0.2	214.0
Botula fusca (?) (Mo)	1	0.2	0.2	214.0
Seila adamsi (Mo)	1	0.2	0.2	214.0
Urosalpinx sp. (Mo)	1	0.2	0.2	214.0
Pisania tincta (?) (Mo)	1	0.2	0.2	214.0
Fasciolaria lilium (Mo)	1	0.2	0.2	214.0
Marginella apicina (Mo)	1	0.2	0.2	214.0
Naticidae (Mo)	1	0.2	0.2	214.0
Frato maugeriae (Mo)	1	0.2	0.2	214.0
Amygdalum papyrium (Mo)	1	0.2	0.2	214.0
Lucapinella limatula (Mo)	1	0.2	0.2	214.0
Varicorbula operculata (Mo)	1	0.2	0.2	214.0
Corbula sp. (Mo)	1	0.2	0.2	214.0
Anadara domingensis (Mo)	1	0.2	0.2	214.0
Muricidae (Mo)	1	0.2	0.2	214.0
Crenella decussata (Mo)	1	0.2	0.2	214.0
Semele sp. (Mo)	1	0.2	0.2	214.0
Modiolus sp. (Mo)	1	0.2	0.2	214.0
Tellinidae (Mo)	1	0.2	0.2	214.0
Turridae (Mo)	1	0.2	0.2	214.0
Lyonsia sp. (Mo)	1	0.2	0.2	214.0
Benthonella gaza (Mo)	1	0.2	0.2	214.0
Kurtziella sp. (Mo)	1	0.2	0.2	214.0
Glycera tesselata (An)	1	0.2	0.2	214.0
Vermiliopsis annulata (An)	1	0.2	0.2	214.0
Serpulidae E (An)	1	0.2	0.2	214.0
Serpulidae F (An)	1	0.2	0.2	214.0
Serpulidae G (An)	1	0.2	0.2	214.0
Serpulidae H (An)	1	0.2	0.2	214.0
Magelona sp. A (An)	1	0.2	0.2	214.0

Appendix 10 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Phyllodoce fragilis (An)	1	0.2	0.2	214.0
Dodecaceria corallii (An)	1	0.2	0.2	214.0
Lumbrineridae (An)	1	0.2	0.2	214.0
Sabellaria sp. (An)	1	0.2	0.2	214.0
Filograna implexa (An)	1	0.2	0.2	214.0
Phyllodoce sp. (An)	1	0.2	0.2	214.0
Marphysa sp. A (An)	1	0.2	0.2	214.0
Ceratonereis mirabilis (An)	1	0.2	0.2	214.0
Cirriformia filigera (An)	1	0.2	0.2	214.0
Protodorvillea kefersteini (An)	1	0.2	0.2	214.0
Sthenelais boa (An)	1	0.2	0.2	214.0
Onuphidae (An)	1	0.2	0.2	214.0
Onuphidae A (An)	1	0.2	0.2	214.0
Phyllodoce longipes (An)	1	0.2	0.2	214.0
Pectinaria gouldii (An)	1	0.2	0.2	214.0
Polydora socialis (An)	1	0.2	0.2	214.0
Poecilochaetus sp. (An)	1	0.2	0.2	214.0
Spionidae B (An)	1	0.2	0.2	214.0
Nereidae A (An)	1	0.2	0.2	214.0
Sabellidae (An)	1	0.2	0.2	214.0
Brania clavata (An)	1	0.2	0.2	214.0
Dorvillea sociabilis (An)	1	0.2	0.2	214.0
Polydora caeca (An)	1	0.2	0.2	214.0
Terebellidae (An)	1	0.2	0.2	214.0
Prionospio cirrifera (An)	1	0.2	0.2	214.0
Chrysopetalidae D (An)	1	0.2	0.2	214.0

Miscellaneous Colonial Invertebrates
Amaroucium sp. (Ch)
Spirastrella coccinea (Po)
Myriastra fibrosa (Po)
Siphonodictyon coralliphagum (Po)
Erylus sp. A (Po)
Chondrilla nucula (Po)
Ciocalatata gibbsi (Po)
Tricheurypon sp. (Po)
Halichondriida H (Po)
Homaxinella rudis (Po)
Thalysias juniperina (Po)
Hadromerida B (Po)
Haliclona sp. A (Po)

Appendix 10 (Continued)

MS01
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Filograna implexa (An)	4789	1197.2	1186.9	1.0
Caprella penantis (Ar)	137	34.2	24.2	2.0
Luconacia incerta (Ar)	116	29.0	9.3	3.0
Melita appendiculata (Ar)	97	24.2	12.7	4.0
Pagurus sp. (Ar)	81	20.2	4.3	5.0
Carpias bermudensis (Ar)	52	13.0	12.7	6.0
Elasmopus sp. B (Ar)	47	11.8	11.8	7.0
Podocerus sp. (Ar)	40	10.0	3.1	8.0
Syllis spongicola (An)	37	9.2	5.2	9.0
Photis sp. (Ar)	35	8.8	2.3	10.0
Erichthonius brasiliensis (Ar)	34	8.5	2.6	11.0
Thor sp. (Ar)	30	7.5	2.5	12.0
Ophiothrix angulata (Ech)	29	7.2	4.1	13.5
Websterinereis tridentata (An)	29	7.2	4.4	13.5
Gammaropsis sp. (Ar)	28	7.0	3.4	15.0
Exogone dispar (An)	26	6.5	2.9	16.0
Pilumnus sp. (Ar)	25	6.2	2.4	17.0
Caprellidae A (Ar)	23	5.8	3.0	18.0
Loimia medusa (An)	22	5.5	2.1	19.0
Elasmopus sp. A (Ar)	20	5.0	2.8	20.0
Lembos unicornis (Ar)	19	4.8	3.0	21.5
Tellina sp. (Mo)	19	4.8	2.6	21.5
Microdeutopus myersi (Ar)	18	4.5	2.1	24.5
Ophiostigma isacanthum (Ech)	18	4.5	1.3	24.5
Mitrella lunata (Mo)	18	4.5	1.6	24.5
Syllis gracilis (An)	18	4.5	4.2	24.5
Megalobrachium soriatum (Ar)	16	4.0	3.1	27.5
Ophiuroidea (Ech)	16	4.0	0.9	27.5
Sicyonia laevigata (Ar)	15	3.8	1.1	29.0
Pagurus carolinensis (Ar)	13	3.2	1.5	31.0
Leucothoe spinicarpa (Ar)	13	3.2	3.2	31.0
Maera sp. A (Ar)	13	3.2	2.6	31.0
Proceraea sp. (An)	12	3.0	2.7	33.0
Paracerceis caudata (Ar)	11	2.8	1.7	34.5
Aspidosiphon spinalis (Si)	11	2.8	0.9	34.5
Mithrax sp. (Ar)	10	2.5	1.2	38.0
Ampelisca agassizi (Ar)	10	2.5	1.2	38.0
Harmothoe sp. (An)	10	2.5	1.5	38.0
Syllis alternata (An)	10	2.5	1.6	38.0
Eulalia sanguinea (An)	10	2.5	0.6	38.0
Latreutes parvulus (Ar)	9	2.2	1.3	44.0
Lembos smithi (Ar)	9	2.2	1.3	44.0
Stenothoe georgiana (Ar)	9	2.2	1.6	44.0
Turbellaria (Pl)	9	2.2	1.1	44.0
Ophiothrix sp. (Ech)	9	2.2	1.6	44.0
Marphysa sp. A (An)	9	2.2	0.8	44.0
Proceraea fasciata (An)	9	2.2	2.2	44.0
Micropanope sp. (Ar)	8	2.0	1.4	49.0
Lumbrineris inflata (An)	8	2.0	0.4	49.0
Polycirrus carolinensis (An)	8	2.0	1.0	49.0
Clavelina gigantea (Ch)	7	1.8	1.8	56.5
Micropanope sculptipes (Ar)	7	1.8	1.4	56.5
Thor manningi (Ar)	7	1.8	1.0	56.5
Phyllocarida (Ar)	7	1.8	0.8	56.5
Amphipoda E (Ar)	7	1.8	0.8	56.5
Pelecypoda (Mo)	7	1.8	0.6	56.5
Sipunculida	7	1.8	1.4	56.5
Malacoceros glutaeus (An)	7	1.8	0.8	56.5
Pherusa ehlersi (An)	7	1.8	0.8	56.5

Appendix 10 (Continued)

MS01
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Syllidae A (An)	7	1.8	0.8	56.5
Chrysopetalidae B (An)	7	1.8	1.2	56.5
Syllis hyalina (An)	7	1.8	0.5	56.5
Megaluropus sp. (Ar)	6	1.5	0.3	67.0
Lysianopsis alba (Ar)	6	1.5	1.5	67.0
Amphipoda B (Ar)	6	1.5	0.9	67.0
Sabellaria vulgaris vulgaris (An)	6	1.5	0.6	67.0
Owenia fusiformis (An)	6	1.5	1.5	67.0
Pherusa inflata (An)	6	1.5	0.6	67.0
Eunice vittata (An)	6	1.5	0.9	67.0
Notomastus sp. (An)	6	1.5	1.0	67.0
Chrysopetalidae A (An)	6	1.5	1.5	67.0
Cinachyra alloclada (Po)	5	1.2	0.2	76.0
Galathea rostrata (Ar)	5	1.2	0.9	76.0
Bodotriidae B (Ar)	5	1.2	0.5	76.0
Phtisica marina (Ar)	5	1.2	0.5	76.0
Eunice antennata (An)	5	1.2	1.2	76.0
Phyllodoce fragilis (An)	5	1.2	0.5	76.0
Autolytus sp. (An)	5	1.2	0.9	76.0
Spiophanes bombyx (An)	5	1.2	0.8	76.0
Syllidae C (An)	5	1.2	0.8	76.0
Branchiostoma caribaeum (Ch)	4	1.0	1.0	88.5
Synalpheus townsendi (Ar)	4	1.0	0.6	88.5
Pseudomedaeus agassizii (Ar)	4	1.0	0.6	88.5
Pelia mutica (Ar)	4	1.0	0.7	88.5
Mithrax pleuracanthus (Ar)	4	1.0	1.0	88.5
Brachyura (Ar)	4	1.0	1.0	88.5
Colomastix sp. (Ar)	4	1.0	0.6	88.5
Tanystylidae A (Ar)	4	1.0	0.6	88.5
Nematoda	4	1.0	0.4	88.5
Erato maugeriae (Mo)	4	1.0	1.0	88.5
Veneridae (Mo)	4	1.0	0.7	88.5
Sipunculida A	4	1.0	0.6	88.5
Pisione remota (An)	4	1.0	1.0	88.5
Ceratonereis versipedata (An)	4	1.0	0.7	88.5
Protodorvillea kefersteini (An)	4	1.0	0.7	88.5
Syllis regulata carolinae (An)	4	1.0	0.7	88.5
Styela plicata (Ch)	3	0.8	0.8	109.0
Gonodactylus bredini (Ar)	3	0.8	0.5	109.0
Oxyurostylis smithi (Ar)	3	0.8	0.2	109.0
Stenopleustes sp. A (Ar)	3	0.8	0.8	109.0
Melphidippidae A (Ar)	3	0.8	0.8	109.0
Diastylidae A (Ar)	3	0.8	0.5	109.0
Gitanopsis sp. (Ar)	3	0.8	0.2	109.0
Nemertinea	3	0.8	0.8	109.0
Nemertinea B	3	0.8	0.8	109.0
Amphiodia pulchella (Ech)	3	0.8	0.8	109.0
Anachis iontha (Mo)	3	0.8	0.8	109.0
Laevicardium laevigatum (Mo)	3	0.8	0.2	109.0
Pomatoceros americanus (An)	3	0.8	0.5	109.0
Serpulidae (An)	3	0.8	0.5	109.0
Trypanosyllis zebra (An)	3	0.8	0.5	109.0
Euphrosine trilobata (An)	3	0.8	0.8	109.0
Podarke obscura (An)	3	0.8	0.5	109.0
Odontosyllis fulgurans (An)	3	0.8	0.5	109.0
Capitellidae A (An)	3	0.8	0.5	109.0
Spio pettiboneae (An)	3	0.8	0.8	109.0
Lysidice ninetta (An)	3	0.8	0.8	109.0
Ampharete americana (An)	3	0.8	0.8	109.0

Appendix 10 (Continued)

MS01
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Polydora caeca (An)	3	0.8	0.5	109.0
Terebellidae (An)	3	0.8	0.5	109.0
Aonides mayaguezensis (An)	3	0.8	0.8	109.0
Haliclona sp. B (Po)	2	0.5	0.3	135.0
Alpheus normanni (Ar)	2	0.5	0.5	135.0
Sicyonia sp. (Ar)	2	0.5	0.3	135.0
Xanthidae (Ar)	2	0.5	0.5	135.0
Synalpheus sp. (Ar)	2	0.5	0.5	135.0
Pinnotheridae (Ar)	2	0.5	0.3	135.0
Pagurus hendersoni (Ar)	2	0.5	0.5	135.0
Hippolyte sp. (Ar)	2	0.5	0.5	135.0
Maera caroliniana (Ar)	2	0.5	0.5	135.0
Cerapus tubularis (Ar)	2	0.5	0.5	135.0
Bowmaniella portoricensis (Ar)	2	0.5	0.5	135.0
Leptochelia sp. (Ar)	2	0.5	0.5	135.0
Melitidae A (Ar)	2	0.5	0.5	135.0
Amphipoda F (Ar)	2	0.5	0.3	135.0
Nemertinea A	2	0.5	0.5	135.0
Diodora cayenensis (Mo)	2	0.5	0.5	135.0
Pteria colymbus (Mo)	2	0.5	0.5	135.0
Mangelia rugirima (Mo)	2	0.5	0.3	135.0
Musculus sp. A (Mo)	2	0.5	0.3	135.0
Gastropoda (Mo)	2	0.5	0.3	135.0
Tellinidae (Mo)	2	0.5	0.5	135.0
Ophelia denticulata (An)	2	0.5	0.5	135.0
Trypanosyllis sp. (An)	2	0.5	0.3	135.0
Serpulidae C (An)	2	0.5	0.3	135.0
Palolo siciliensis (An)	2	0.5	0.3	135.0
Arabella mutans (An)	2	0.5	0.5	135.0
Syllidae B (An)	2	0.5	0.3	135.0
Amaroucium sp. (Ch)	1	0.2	0.2	192.5
Diplosoma macdonaldi (Ch)	1	0.2	0.2	192.5
Scypha barbadensis (Po)	1	0.2	0.2	192.5
Ircinia campana (Po)	1	0.2	0.2	192.5
Higginsia strigilata (Po)	1	0.2	0.2	192.5
Cinachyra kuekenthali (Po)	1	0.2	0.2	192.5
Aplysina fistularis (Po)	1	0.2	0.2	192.5
Ircinia felix (Po)	1	0.2	0.2	192.5
Craniellidae B (Po)	1	0.2	0.2	192.5
Demospongea B (Po)	1	0.2	0.2	192.5
Decapoda L (Ar)	1	0.2	0.2	192.5
Speloeophorus nodosus (Ar)	1	0.2	0.2	192.5
Pilumnus sayi (Ar)	1	0.2	0.2	192.5
Podochela riisei (Ar)	1	0.2	0.2	192.5
Metoporhaphis calcarata (Ar)	1	0.2	0.2	192.5
Stenorhynchus seticornis (Ar)	1	0.2	0.2	192.5
Mithrax acuticornis (Ar)	1	0.2	0.2	192.5
Caridea (Ar)	1	0.2	0.2	192.5
Munida pusilla (Ar)	1	0.2	0.2	192.5
Hemus cristulipes (Ar)	1	0.2	0.2	192.5
Inachoides forceps (Ar)	1	0.2	0.2	192.5
Pylopagurus holthuisi (Ar)	1	0.2	0.2	192.5
Synchelidium americanum (Ar)	1	0.2	0.2	192.5
Heteromysis formosa (Ar)	1	0.2	0.2	192.5
Anamixis sp. (Ar)	1	0.2	0.2	192.5
Leucothoe sp. A (Ar)	1	0.2	0.2	192.5
Gnathia sp. A (Ar)	1	0.2	0.2	192.5
Anchialina typica (Ar)	1	0.2	0.2	192.5
Tiron tropakis (Ar)	1	0.2	0.2	192.5

Appendix 10 (Continued)

MS01
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Amphipoda G (Ar)	1	0.2	0.2	192.5
Callipallene sp. (Ar)	1	0.2	0.2	192.5
Nemertinea C	1	0.2	0.2	192.5
Comactina meridionalis (Ech)	1	0.2	0.2	192.5
Amphiuridae (Ech)	1	0.2	0.2	192.5
Hemichordata A	1	0.2	0.2	192.5
Phoronis architecta (Ph)	1	0.2	0.2	192.5
Semele bellastriata (Mo)	1	0.2	0.2	192.5
Calliostoma sp. (Mo)	1	0.2	0.2	192.5
Murex fulvescens (Mo)	1	0.2	0.2	192.5
Marginella aureocincta (Mo)	1	0.2	0.2	192.5
Nassarius albus (Mo)	1	0.2	0.2	192.5
Arca zebra (Mo)	1	0.2	0.2	192.5
Anomia simplex (Mo)	1	0.2	0.2	192.5
Vexillum histro (Mo)	1	0.2	0.2	192.5
Chione grus (Mo)	1	0.2	0.2	192.5
Persicula fluctuata (Mo)	1	0.2	0.2	192.5
Hiatella arctica (Mo)	1	0.2	0.2	192.5
Chama sp. (Mo)	1	0.2	0.2	192.5
Naticidae (Mo)	1	0.2	0.2	192.5
Oplia sp. A (Mo)	1	0.2	0.2	192.5
Polinices uberinus (Mo)	1	0.2	0.2	192.5
Mactridae (Mo)	1	0.2	0.2	192.5
Aspidosiphon misakiensis (Si)	1	0.2	0.2	192.5
Glycera tesselata (An)	1	0.2	0.2	192.5
Vermiliopsis annulata (An)	1	0.2	0.2	192.5
Serpulidae H (An)	1	0.2	0.2	192.5
Sabellaria vulgaris beaufortensis (An)	1	0.2	0.2	192.5
Hyboscolex longiseta (An)	1	0.2	0.2	192.5
Eunice sp. (An)	1	0.2	0.2	192.5
Hydroides crucigera (An)	1	0.2	0.2	192.5
Megalomma bioculatum (An)	1	0.2	0.2	192.5
Ancistrosyllis rigida (An)	1	0.2	0.2	192.5
Pista palmata (An)	1	0.2	0.2	192.5
Eunice filamentosa (An)	1	0.2	0.2	192.5
Potamilla sp. (An)	1	0.2	0.2	192.5
Marphysa sp. (An)	1	0.2	0.2	192.5
Malacoceros sp. (An)	1	0.2	0.2	192.5
Lumbrineris impatiens (An)	1	0.2	0.2	192.5
Tharyx marioni (An)	1	0.2	0.2	192.5
Lumbrineris latreilli (An)	1	0.2	0.2	192.5
Paranaitis polynoides (An)	1	0.2	0.2	192.5
Laonice cirrata (An)	1	0.2	0.2	192.5
Polycirrus eximius (An)	1	0.2	0.2	192.5
Phyllodoce longipes (An)	1	0.2	0.2	192.5
Polydora socialis (An)	1	0.2	0.2	192.5
Lumbrineris coccinea (An)	1	0.2	0.2	192.5
Eusyllis lamelligera (An)	1	0.2	0.2	192.5
Syllis sp. (An)	1	0.2	0.2	192.5
Syllis sp. D (An)	1	0.2	0.2	192.5
Spionidae (An)	1	0.2	0.2	192.5
Lumbrineris sp. (An)	1	0.2	0.2	192.5
Paraonidae (An)	1	0.2	0.2	192.5
Paraprionospio pinnata (An)	1	0.2	0.2	192.5
Scolelepis texana (An)	1	0.2	0.2	192.5
Cirratulidae (An)	1	0.2	0.2	192.5
Polydora sp. (An)	1	0.2	0.2	192.5
Phyllodocidae (An)	1	0.2	0.2	192.5
Chrysopetalidae D (An)	1	0.2	0.2	192.5

Appendix 10 (Continued)

Miscellaneous Colonial Invertebrates and Algae
Ascidiacea (Ch)
Lissodendoryx sp. A (Po)
Algae

Appendix 10 (Continued)

MS02
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Sabellaria vulgaris vulgaris (An)	180	45.0	43.7	1.0
Photis sp. (Ar)	154	38.5	11.1	2.0
Erichthonius brasiliensis (Ar)	71	17.8	15.1	3.0
Luconacia incerta (Ar)	65	16.2	8.8	4.0
Ophiuroidea (Ech)	38	9.5	2.2	5.0
Caprella penantis (Ar)	36	9.0	7.4	6.0
Spiophanes bombyx (An)	31	7.8	2.8	7.0
Exogone dispar (An)	22	5.5	2.0	8.0
Pagurus sp. (Ar)	21	5.2	2.0	9.5
Cerapus tubularis (Ar)	21	5.2	4.9	9.5
Amphiodia pulchella (Ech)	20	5.0	1.7	11.0
Oxyurostylis smithi (Ar)	19	4.8	2.5	12.5
Chrysopetalidae A (An)	19	4.8	1.9	12.5
Lembos unicornis (Ar)	16	4.0	2.8	14.5
Prionospio cristata (An)	16	4.0	1.8	14.5
Tellina sp. (Mo)	15	3.8	1.0	16.0
Owenia fusiformis (An)	14	3.5	1.4	17.5
Nereidae B (An)	14	3.5	2.1	17.5
Mitrella lunata (Mo)	13	3.2	2.0	19.5
Phyllodoce longipes (An)	13	3.2	1.2	19.5
Turbellaria (Pl)	12	3.0	1.2	21.5
Loimia medusa (An)	12	3.0	0.7	21.5
Aspidosiphon spinalis (Si)	10	2.5	1.8	23.5
Autolytus sp. (An)	10	2.5	1.3	23.5
Sicyonia laevigata (Ar)	9	2.2	1.0	25.5
Pagurus hendersoni (Ar)	9	2.2	2.2	25.5
Gammaropsis sp. (Ar)	8	2.0	1.2	29.0
Nemertinea A	8	2.0	1.7	29.0
Pelecypoda (Mo)	8	2.0	0.7	29.0
Malacoceros glutaeus (An)	8	2.0	1.7	29.0
Eunice vittata (An)	8	2.0	0.7	29.0
Bodotriidae B (Ar)	7	1.8	0.6	34.5
Stenothoe georgiana (Ar)	7	1.8	1.2	34.5
Microdeutopus myersi (Ar)	7	1.8	0.8	34.5
Nemertinea	7	1.8	0.8	34.5
Axiothella mucosa (An)	7	1.8	0.8	34.5
Pherusa inflata (An)	7	1.8	1.4	34.5
Inachoides forceps (Ar)	6	1.5	0.9	40.5
Ampelisca vadorum (Ar)	6	1.5	0.6	40.5
Podocerus sp. (Ar)	6	1.5	1.2	40.5
Caprellidae A (Ar)	6	1.5	1.2	40.5
Anoplodactylus petiolatus (Ar)	6	1.5	0.5	40.5
Eulalia sanguinea (An)	6	1.5	0.3	40.5
Ophiolepis sp. A (Ech)	5	1.2	0.9	46.5
Persicula fluctuata (Mo)	5	1.2	1.2	46.5
Glycera tesselata (An)	5	1.2	0.8	46.5
Lumbrineris impatiens (An)	5	1.2	0.5	46.5
Spionidae B (An)	5	1.2	0.8	46.5
Notomastus sp. (An)	5	1.2	0.5	46.5
Amphiodia sp. A (Ech)	4	1.0	1.0	53.0
Pteria colymbus (Mo)	4	1.0	0.7	53.0
Corbula sp. (Mo)	4	1.0	1.0	53.0
Harmothoe sp. A (An)	4	1.0	0.0	53.0
Nicomache trispinata (An)	4	1.0	1.0	53.0
Prionospio sp. A (An)	4	1.0	0.4	53.0
Onuphis nebulosa (An)	4	1.0	0.7	53.0
Ampelisca agassizi (Ar)	3	0.8	0.5	63.0
Amphipoda F (Ar)	3	0.8	0.8	63.0
Echinoidea (Ech)	3	0.8	0.5	63.0

Appendix 10 (Continued)

MS02
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Onuphis sp. (An)	3	0.8	0.8	63.0
Lumbrineris inflata (An)	3	0.8	0.8	63.0
Goniadides carolinae (An)	3	0.8	0.8	63.0
Laonice cirrata (An)	3	0.8	0.5	63.0
Polydora websteri (An)	3	0.8	0.8	63.0
Polycirrus carolinensis (An)	3	0.8	0.5	63.0
Nereidae (An)	3	0.8	0.5	63.0
Paraprionospio pinnata (An)	3	0.8	0.5	63.0
Thelepus setosus (An)	3	0.8	0.8	63.0
Chrysopetalidae B (An)	3	0.8	0.5	63.0
Latreutes parvulus (Ar)	2	0.5	0.5	84.5
Pilumnus sp. (Ar)	2	0.5	0.5	84.5
Hypoconcha sabulosa (Ar)	2	0.5	0.5	84.5
Pelia mutica (Ar)	2	0.5	0.5	84.5
Mithrax sp. (Ar)	2	0.5	0.5	84.5
Micropanope sp. (Ar)	2	0.5	0.5	84.5
Podochela sp. (Ar)	2	0.5	0.3	84.5
Synchelidium americanum (Ar)	2	0.5	0.3	84.5
Maera caroliniana (Ar)	2	0.5	0.5	84.5
Unciola laminosa (Ar)	2	0.5	0.5	84.5
Hippomedon sp. A (Ar)	2	0.5	0.5	84.5
Phtisica marina (Ar)	2	0.5	0.3	84.5
Tiron tropakis (Ar)	2	0.5	0.5	84.5
Melita appendiculata (Ar)	2	0.5	0.5	84.5
Ophiothrix angulata (Ech)	2	0.5	0.5	84.5
Amphiuridae (Ech)	2	0.5	0.5	84.5
Ophiostigma sp. (Ech)	2	0.5	0.5	84.5
Strombiformis bilineatus (?) (Mo)	2	0.5	0.3	84.5
Anachis iontha (Mo)	2	0.5	0.3	84.5
Gastropoda (Mo)	2	0.5	0.3	84.5
Arene tricarinata (Mo)	2	0.5	0.5	84.5
Veneridae (Mo)	2	0.5	0.3	84.5
Pisione remota (An)	2	0.5	0.3	84.5
Chone americana (An)	2	0.5	0.3	84.5
Nephtys incisa (An)	2	0.5	0.3	84.5
Podarke obscura (An)	2	0.5	0.3	84.5
Syllis sp. D (An)	2	0.5	0.5	84.5
Spio pettiboneae (An)	2	0.5	0.5	84.5
Syllidae A (An)	2	0.5	0.5	84.5
Petaloproctus socialis (An)	2	0.5	0.5	84.5
Branchiostoma caribaeum (Ch)	1	0.2	0.2	133.0
Diplosoma macdonaldi (Ch)	1	0.2	0.2	133.0
Cinachyra alloclada (Po)	1	0.2	0.2	133.0
Cinachyra kuekenthali (Po)	1	0.2	0.2	133.0
Haliclona oculata (Po)	1	0.2	0.2	133.0
Hadromerida B (Po)	1	0.2	0.2	133.0
Sicyonia parri (Ar)	1	0.2	0.2	133.0
Batrachonotus fragosus (Ar)	1	0.2	0.2	133.0
Podochela sidneyi (Ar)	1	0.2	0.2	133.0
Microphrys bicornutus (?) (Ar)	1	0.2	0.2	133.0
Stenocionops furcata coelata (Ar)	1	0.2	0.2	133.0
Sicyonia sp. (Ar)	1	0.2	0.2	133.0
Majidae (Ar)	1	0.2	0.2	133.0
Hemus cristulipes (Ar)	1	0.2	0.2	133.0
Pinnotheridae (Ar)	1	0.2	0.2	133.0
Automate kingsleyi (Ar)	1	0.2	0.2	133.0
Megaluropus sp. (Ar)	1	0.2	0.2	133.0
Ceradocus sp. (Ar)	1	0.2	0.2	133.0
Phyllocarida (Ar)	1	0.2	0.2	133.0
Serolis mgrayi (Ar)	1	0.2	0.2	133.0

Appendix 10 (Continued)

MS02
Number of Samples = 4

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Lembos smithi (Ar)	1	0.2	0.2	133.0
Bodotriidae C (Ar)	1	0.2	0.2	133.0
Paracerceis caudata (Ar)	1	0.2	0.2	133.0
Tanaidacea A (Ar)	1	0.2	0.2	133.0
Mesanthura decorata (Ar)	1	0.2	0.2	133.0
Maera sp. (Ar)	1	0.2	0.2	133.0
Amphipoda E (Ar)	1	0.2	0.2	133.0
Hemichordata A	1	0.2	0.2	133.0
Nematoda	1	0.2	0.2	133.0
Polyplacophora (Mo)	1	0.2	0.2	133.0
Pecten raveneli (Mo)	1	0.2	0.2	133.0
Anomia simplex (Mo)	1	0.2	0.2	133.0
Chione latilirata (Mo)	1	0.2	0.2	133.0
Polinices uberinus (Mo)	1	0.2	0.2	133.0
Varicorbula operculata (Mo)	1	0.2	0.2	133.0
Hiatella sp. A (Mo)	1	0.2	0.2	133.0
Cumingia coarctata (?) (Mo)	1	0.2	0.2	133.0
Laevicardium sp. (Mo)	1	0.2	0.2	133.0
Volvulella sp. A (Mo)	1	0.2	0.2	133.0
Arcidae (Mo)	1	0.2	0.2	133.0
Turbonilla sp. (Mo)	1	0.2	0.2	133.0
Ampharete acutifrons (An)	1	0.2	0.2	133.0
Notopygos crinita (An)	1	0.2	0.2	133.0
Sabellaria vulgaris beaufortensis (An)	1	0.2	0.2	133.0
Hyboscolex longiseta (An)	1	0.2	0.2	133.0
Phyllodoce fragilis (An)	1	0.2	0.2	133.0
Megalomma bioculatum (An)	1	0.2	0.2	133.0
Ceratonereis versipedata (An)	1	0.2	0.2	133.0
Streblosoma sp. (An)	1	0.2	0.2	133.0
Marphysa sp. A (An)	1	0.2	0.2	133.0
Prionospio sp. (An)	1	0.2	0.2	133.0
Ceratonereis mirabilis (An)	1	0.2	0.2	133.0
Onuphidae (An)	1	0.2	0.2	133.0
Nephtys squamosa (An)	1	0.2	0.2	133.0
Arabella mutans (An)	1	0.2	0.2	133.0
Websterinereis tridentata (An)	1	0.2	0.2	133.0
Prionospio cirrobranchiata (An)	1	0.2	0.2	133.0
Diopatra cuprea (An)	1	0.2	0.2	133.0
Odontosyllis fulgurans (An)	1	0.2	0.2	133.0
Spionidae (An)	1	0.2	0.2	133.0
Capitellidae A (An)	1	0.2	0.2	133.0
Maldanidae (An)	1	0.2	0.2	133.0
Lysidice ninetta (?) (An)	1	0.2	0.2	133.0
Syllidae C (An)	1	0.2	0.2	133.0
Ampharete americana (An)	1	0.2	0.2	133.0
Ceratocephale sp. (An)	1	0.2	0.2	133.0
Syllis hyalina (An)	1	0.2	0.2	133.0

Miscellaneous Colonial Invertebrates and Algae
Higgensia strigilata (Po)
Anthosigmella varians (Po)
Craniellidae B (Po)
Algae

Appendix 10 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Caprellidae A (Ar)	97	19.4	17.4	1.0
Amphiodia pulchella (Ech)	56	11.2	2.3	2.0
Oxyurostylis smithi (Ar)	55	11.0	3.2	3.0
Ophiuroidea (Ech)	45	9.0	1.2	4.0
Photis sp. (Ar)	42	8.4	4.8	5.0
Syllis spongicola (An)	34	6.8	6.1	6.0
Turbellaria (Pl)	33	6.6	2.2	7.0
Pagurus sp. (Ar)	32	6.4	3.5	8.0
Euceramus praelongus (Ar)	31	6.2	2.2	9.0
Owenia fusiformis (An)	29	5.8	2.0	10.0
Carpias bermudensis (Ar)	26	5.2	5.2	11.0
Erichthonius brasiliensis (Ar)	23	4.6	1.6	12.0
Eunice vittata (An)	20	4.0	1.2	13.5
Prionospio cristata (An)	20	4.0	1.8	13.5
Chrysopetalidae A (An)	18	3.6	1.5	15.0
Aspidosiphon spinalis (Si)	16	3.2	1.8	16.0
Pagurus hendersoni (Ar)	15	3.0	2.1	18.0
Amphiuridae (Ech)	15	3.0	0.9	18.0
Loimia medusa (An)	15	3.0	1.6	18.0
Podocerus sp. (Ar)	14	2.8	1.2	20.5
Spio pettiboneae (An)	14	2.8	1.2	20.5
Aricidea suecica (An)	12	2.4	0.9	22.0
Prionospio sp. A (An)	11	2.2	1.1	23.5
Spiophanes bombyx (An)	11	2.2	1.0	23.5
Micropanope sp. (Ar)	10	2.0	0.6	26.5
Caprella penantis (Ar)	10	2.0	1.3	26.5
Ophiothrix angulata (Ech)	10	2.0	0.9	26.5
Mediomastus californiensis (An)	10	2.0	0.6	26.5
Gammaropsis sp. (Ar)	9	1.8	1.6	29.0
Sicyonia sp. (Ar)	7	1.4	0.7	31.5
Megaluropus sp. (Ar)	7	1.4	0.6	31.5
Laonice cirrata (An)	7	1.4	0.5	31.5
Chrysopetalidae B (An)	7	1.4	0.7	31.5
Pagurus carolinensis (Ar)	6	1.2	0.7	36.5
Luconacia incerta (Ar)	6	1.2	0.6	36.5
Bowmaniella portoricensis (Ar)	6	1.2	0.6	36.5
Nemertinea	6	1.2	0.7	36.5
Pelecypoda (Mo)	6	1.2	0.7	36.5
Spionidae B (An)	6	1.2	0.6	36.5
Cinachyra alloclada (Po)	5	1.0	0.3	41.5
Autolytus sp. (An)	5	1.0	0.3	41.5
Syllis hyalina (An)	5	1.0	0.4	41.5
Malacoceros indicus (An)	5	1.0	0.4	41.5
Ampelisca vadorum (Ar)	4	0.8	0.2	49.0
Acanthohaustorius millsi (Ar)	4	0.8	0.5	49.0
Phtisica marina (Ar)	4	0.8	0.4	49.0
Mesanthura decorata (Ar)	4	0.8	0.4	49.0
Aspidosiphon misakiensis (Si)	4	0.8	0.4	49.0
Magelona sp. A (An)	4	0.8	0.6	49.0
Filograna implexa (An)	4	0.8	0.8	49.0
Onuphis nebulosa (An)	4	0.8	0.4	49.0
Axiothella mucosa (An)	4	0.8	0.4	49.0
Polycirrus carolinensis (An)	4	0.8	0.2	49.0
Eulalia sanguinea (An)	4	0.8	0.4	49.0
Batrachonotus fragosus (Ar)	3	0.6	0.6	65.0
Thor sp. (Ar)	3	0.6	0.4	65.0
Ampelisca agassizi (Ar)	3	0.6	0.4	65.0
Colomastix sp. (Ar)	3	0.6	0.6	65.0
Leucothoe spinicarpa (Ar)	3	0.6	0.2	65.0
Amphipoda E (Ar)	3	0.6	0.4	65.0

Appendix 10 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Amphipoda F (Ar)	3	0.6	0.4	65.0
Nemertinea A	3	0.6	0.4	65.0
Amphiodia sp. (Ech)	3	0.6	0.4	65.0
Phoronis architecta (Ph)	3	0.6	0.4	65.0
Nassarius albus (Mo)	3	0.6	0.2	65.0
Colubraria lanceolata (Mo)	3	0.6	0.6	65.0
Sipunculida A	3	0.6	0.4	65.0
Syllis alternata (An)	3	0.6	0.4	65.0
Chone americana (An)	3	0.6	0.2	65.0
Paranaitis polynoides (An)	3	0.6	0.2	65.0
Notomastus hemipodus (An)	3	0.6	0.4	65.0
Phyllodoce longipes (An)	3	0.6	0.4	65.0
Lumbrineris coccinea (An)	3	0.6	0.4	65.0
Scolelepis texana (An)	3	0.6	0.6	65.0
Maldanidae (An)	3	0.6	0.4	65.0
Anthosigmella varians (Po)	2	0.4	0.2	98.0
Synalpheus townsendi (Ar)	2	0.4	0.4	98.0
Megalobrachium soriatum (Ar)	2	0.4	0.4	98.0
Hypoconcha arcuata (Ar)	2	0.4	0.4	98.0
Pinnixa cylindrica (Ar)	2	0.4	0.2	98.0
Leptochela papulata (Ar)	2	0.4	0.2	98.0
Inachoides forceps (Ar)	2	0.4	0.4	98.0
Ebalia sp. (Ar)	2	0.4	0.4	98.0
Promysis atlantica (Ar)	2	0.4	0.2	98.0
Maera caroliniana (Ar)	2	0.4	0.2	98.0
Unciola laminosa (Ar)	2	0.4	0.4	98.0
Serolis mgravi (Ar)	2	0.4	0.2	98.0
Bodotriidae A (Ar)	2	0.4	0.2	98.0
Diastylidae A (Ar)	2	0.4	0.2	98.0
Elasmopus sp. A (Ar)	2	0.4	0.4	98.0
Anchialina typica (Ar)	2	0.4	0.4	98.0
Melita appendiculata (Ar)	2	0.4	0.2	98.0
Amphipoda H (Ar)	2	0.4	0.2	98.0
Ophiostigma isacanthum (Ech)	2	0.4	0.2	98.0
Ophiolepis sp. A (Ech)	2	0.4	0.2	98.0
Semele bellastriata (Mo)	2	0.4	0.2	98.0
Anachis iontha (Mo)	2	0.4	0.2	98.0
Americardia media (Mo)	2	0.4	0.2	98.0
Varicorbula operculata (Mo)	2	0.4	0.2	98.0
Crassinella lunulata (Mo)	2	0.4	0.2	98.0
Sipunculida	2	0.4	0.2	98.0
Glycera tesselata (An)	2	0.4	0.2	98.0
Trypanosyllis sp. (An)	2	0.4	0.2	98.0
Sabellaria vulgaris vulgaris (An)	2	0.4	0.2	98.0
Phyllodoce fragilis (An)	2	0.4	0.4	98.0
Hydroides sp. A (An)	2	0.4	0.2	98.0
Goniadides carolinae (An)	2	0.4	0.2	98.0
Pseudeurythoe ambigua (An)	2	0.4	0.4	98.0
Cirrophorus lyriformis (An)	2	0.4	0.2	98.0
Nephtys squamosa (An)	2	0.4	0.4	98.0
Podarke obscura (An)	2	0.4	0.2	98.0
Exogone dispar (An)	2	0.4	0.4	98.0
Syllis sp. D (An)	2	0.4	0.2	98.0
Spionidae (An)	2	0.4	0.4	98.0
Nereidae B (An)	2	0.4	0.4	98.0
Paraprionospio pinnata (An)	2	0.4	0.2	98.0
Syllidae C (An)	2	0.4	0.2	98.0
Ampharete americana (An)	2	0.4	0.2	98.0
Ceratocephale sp. (An)	2	0.4	0.2	98.0

Appendix 10 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Aonides mayaguezensis (An)	2	0.4	0.2	98.0
Homaxinella waltonsmithi (Po)	1	0.2	0.2	163.0
Halichondria bowerbanki (Po)	1	0.2	0.2	163.0
Clathrina coriacea (Po)	1	0.2	0.2	163.0
Sicyonia laevigata (Ar)	1	0.2	0.2	163.0
Periclimenes longicaudatus (Ar)	1	0.2	0.2	163.0
Paguristes sericeus (Ar)	1	0.2	0.2	163.0
Hypoconcha sabulosa (Ar)	1	0.2	0.2	163.0
Osachila tuberosa (Ar)	1	0.2	0.2	163.0
Pilumnus sayi (Ar)	1	0.2	0.2	163.0
Pseudomedaeus agassizii (Ar)	1	0.2	0.2	163.0
Macrocoeloma camptocerum (Ar)	1	0.2	0.2	163.0
Dardanus fusosus (Ar)	1	0.2	0.2	163.0
Automate kingsleyi (Ar)	1	0.2	0.2	163.0
Latreutes sp. (Ar)	1	0.2	0.2	163.0
Palaemonidae (Ar)	1	0.2	0.2	163.0
Porcellanidae (Ar)	1	0.2	0.2	163.0
Pylopagurus sp. (Ar)	1	0.2	0.2	163.0
Synchelidium americanum (Ar)	1	0.2	0.2	163.0
Lembos unicornis (Ar)	1	0.2	0.2	163.0
Trichophoxus floridanus (Ar)	1	0.2	0.2	163.0
Maera williamsi (Ar)	1	0.2	0.2	163.0
Apseudes sp. A (Ar)	1	0.2	0.2	163.0
Apseudes sp. B (Ar)	1	0.2	0.2	163.0
Bodotriidae B (Ar)	1	0.2	0.2	163.0
Bodotriidae C (Ar)	1	0.2	0.2	163.0
Tanaidacea B (Ar)	1	0.2	0.2	163.0
Hyperiidea A (Ar)	1	0.2	0.2	163.0
Unciola sp. A (Ar)	1	0.2	0.2	163.0
Mysidopsis sp. (Ar)	1	0.2	0.2	163.0
Acanthohaustorius shoemakeri (Ar)	1	0.2	0.2	163.0
Tiron tropakis (Ar)	1	0.2	0.2	163.0
Apanthura magnifica (Ar)	1	0.2	0.2	163.0
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	163.0
Arbaciidae (Ech)	1	0.2	0.2	163.0
Holothuroidea (Ech)	1	0.2	0.2	163.0
Nematoda	1	0.2	0.2	163.0
Vermicularia knorrii (Mo)	1	0.2	0.2	163.0
Polyplacophora A (Mo)	1	0.2	0.2	163.0
Murex pomum (Mo)	1	0.2	0.2	163.0
Oliva sayana (Mo)	1	0.2	0.2	163.0
Heliacus bisulcatus (Mo)	1	0.2	0.2	163.0
Strombiformis bilineatus (?) (Mo)	1	0.2	0.2	163.0
Plicatula gibbosa (Mo)	1	0.2	0.2	163.0
Codakia orbicularis (Mo)	1	0.2	0.2	163.0
Laevicardium laevigatum (Mo)	1	0.2	0.2	163.0
Conus delessertii (Mo)	1	0.2	0.2	163.0
Epitonium nautlae (Mo)	1	0.2	0.2	163.0
Amygdalum papyrium (Mo)	1	0.2	0.2	163.0
Lucapinella limatula (Mo)	1	0.2	0.2	163.0
Rimula frenulata (Mo)	1	0.2	0.2	163.0
Polinices uberinus (Mo)	1	0.2	0.2	163.0
Veneridae (Mo)	1	0.2	0.2	163.0
Ampharete acutifrons (An)	1	0.2	0.2	163.0
Eunice antennata (An)	1	0.2	0.2	163.0
Lumbrineriopsis paradoxa (An)	1	0.2	0.2	163.0
Notopygos crinita (An)	1	0.2	0.2	163.0
Aglaophamus sp. A (An)	1	0.2	0.2	163.0
Nicomachinae (An)	1	0.2	0.2	163.0

Appendix 10 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Terebellides stroemi (An)	1	0.2	0.2	163.0
Mesochaetopterus sp. (An)	1	0.2	0.2	163.0
Trichobranchus glacialis (An)	1	0.2	0.2	163.0
Serpulidae I (An)	1	0.2	0.2	163.0
Harmothoe sp. A (An)	1	0.2	0.2	163.0
Exogone sp. (An)	1	0.2	0.2	163.0
Malacoceros glutaeus (An)	1	0.2	0.2	163.0
Proceraea sp. (An)	1	0.2	0.2	163.0
Trypanosyllis zebra (An)	1	0.2	0.2	163.0
Leiocapitella glabra (An)	1	0.2	0.2	163.0
Sthenelais boa (An)	1	0.2	0.2	163.0
Aglaophamus verrilli (An)	1	0.2	0.2	163.0
Arabella mutans (An)	1	0.2	0.2	163.0
Websterinereis tridentata (An)	1	0.2	0.2	163.0
Prionospio cirrobranchiata (An)	1	0.2	0.2	163.0
Eunicidae (An)	1	0.2	0.2	163.0
Nereidae (An)	1	0.2	0.2	163.0
Orbiniidae A (An)	1	0.2	0.2	163.0
Sabellidae (An)	1	0.2	0.2	163.0
Sabellidae B (An)	1	0.2	0.2	163.0
Cirratulidae (An)	1	0.2	0.2	163.0
Phyllodoce arenae (An)	1	0.2	0.2	163.0
Terebellidae (An)	1	0.2	0.2	163.0
Chaetopteridae (An)	1	0.2	0.2	163.0
Schistomeringos rudolphi (An)	1	0.2	0.2	163.0
Phyllodocidae (An)	1	0.2	0.2	163.0
Notomastus sp. (An)	1	0.2	0.2	163.0

Miscellaneous Colonial Invertebrates
Hemectyon pearsei (Po)
Clathrina coriacea (Po)
Halichondriida F (Po)
Hadromerida C (Po)
Higginsia strigilata (Po)
Halichondria bowerbanki (Po)
Ciocalapata gibbsi (Po)
Cliona caribbaea (Po)
Poecilosclerida C (Po)

Appendix 10 (Continued)

OSO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Spiophanes bombyx (An)	40	8.0	4.3	1.0
Phtisica marina (Ar)	30	6.0	2.2	2.0
Pista palmata (An)	23	4.6	2.3	3.0
Erichthonius sp. A (Ar)	20	4.0	2.3	4.0
Crassinella lunulata (Mo)	18	3.6	2.1	5.0
Onuphis nebulosa (An)	9	1.8	0.7	6.0
Ophiuroidea (Ech)	8	1.6	0.7	7.5
Paraprionospio pinnata (An)	8	1.6	0.5	7.5
Amygdalum sp. A (Mo)	7	1.4	1.2	9.5
Glycera tesselata (An)	7	1.4	0.7	9.5
Pagurus sp. (Ar)	6	1.2	1.2	14.0
Podocerus sp. (Ar)	6	1.2	0.6	14.0
Ampelisca sp. B (Ar)	6	1.2	0.8	14.0
Nematoda	6	1.2	0.6	14.0
Aglaophamus sp. (An)	6	1.2	0.8	14.0
Streblosoma sp. (An)	6	1.2	1.2	14.0
Syllis hyalina (An)	6	1.2	0.6	14.0
Pinnotheridae (Ar)	5	1.0	0.6	21.5
Trichophoxus floridanus (Ar)	5	1.0	0.8	21.5
Amphiodia pulchella (Ech)	5	1.0	0.6	21.5
Protodorvillea kefersteini (An)	5	1.0	0.6	21.5
Lumbrineris impatiens (An)	5	1.0	0.8	21.5
Nephtys incisa (An)	5	1.0	0.3	21.5
Owenia fusiformis (An)	5	1.0	0.8	21.5
Oligochaeta (An)	5	1.0	0.6	21.5
Eurydice littoralis (Ar)	4	0.8	0.4	28.5
Erichthonius brasiliensis (Ar)	4	0.8	0.8	28.5
Photis sp. (Ar)	4	0.8	0.5	28.5
Ampharete acutifrons (An)	4	0.8	0.6	28.5
Goniada sp. (An)	4	0.8	0.5	28.5
Spionidae B (An)	4	0.8	0.6	28.5
Luconacia incerta (Ar)	3	0.6	0.4	37.5
Unciola laminosa (Ar)	3	0.6	0.6	37.5
Anamixis sp. (Ar)	3	0.6	0.6	37.5
Ptilanthura tricarina (Ar)	3	0.6	0.6	37.5
Nemertinea D	3	0.6	0.2	37.5
Pelecypoda (Mo)	3	0.6	0.4	37.5
Magelona sp. B (An)	3	0.6	0.6	37.5
Caulleriella sp. (An)	3	0.6	0.4	37.5
Chone americana (An)	3	0.6	0.4	37.5
Goniadides carolinae (An)	3	0.6	0.4	37.5
Laonice cirrata (An)	3	0.6	0.4	37.5
Notomastus sp. (An)	3	0.6	0.2	37.5
Paguridae (Ar)	2	0.4	0.4	49.5
Leptochela papulata (Ar)	2	0.4	0.4	49.5
Unciola sp. A (Ar)	2	0.4	0.2	49.5
Unciola sp. B (Ar)	2	0.4	0.4	49.5
Nemertinea	2	0.4	0.2	49.5
Nemertinea A	2	0.4	0.2	49.5
Nemertinea F	2	0.4	0.2	49.5
Notomastus americanus (An)	2	0.4	0.4	49.5
Loimia medusa (An)	2	0.4	0.2	49.5
Phyllodoce longipes (An)	2	0.4	0.4	49.5
Eunice vittata (An)	2	0.4	0.4	49.5
Cirratulidae (An)	2	0.4	0.2	49.5
Myctophinae (Ch)	1	0.2	0.2	100.0
Thalysias juniperina (Po)	1	0.2	0.2	100.0
Haplosclerida E (Po)	1	0.2	0.2	100.0
Timea mixta (Po)	1	0.2	0.2	100.0

Appendix 10 (Continued)

OS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Euryponidae A (Po)	1	0.2	0.2	100.0
Sicyonia laevigata (Ar)	1	0.2	0.2	100.0
Synalpheus townsendi (Ar)	1	0.2	0.2	100.0
Euceramus praelongus (Ar)	1	0.2	0.2	100.0
Hypoconcha arcuata (Ar)	1	0.2	0.2	100.0
Ovalipes stephensoni (Ar)	1	0.2	0.2	100.0
Pagurus carolinensis (?) (Ar)	1	0.2	0.2	100.0
Majidae (Ar)	1	0.2	0.2	100.0
Anomura (Ar)	1	0.2	0.2	100.0
Processa sp. (Ar)	1	0.2	0.2	100.0
Pagurus hendersoni (Ar)	1	0.2	0.2	100.0
Ampelisca vadorum (Ar)	1	0.2	0.2	100.0
Ostracoda (Ar)	1	0.2	0.2	100.0
Hippomedon sp. B (Ar)	1	0.2	0.2	100.0
Bowmaniella portoricensis (Ar)	1	0.2	0.2	100.0
Eurydice piperata (Ar)	1	0.2	0.2	100.0
Ampelisca sp. A (Ar)	1	0.2	0.2	100.0
Diastylidae A (Ar)	1	0.2	0.2	100.0
Dulichia sp. (Ar)	1	0.2	0.2	100.0
Podoceropsis sp. (?) (Ar)	1	0.2	0.2	100.0
Stomatopoda A (Ar)	1	0.2	0.2	100.0
Caprella penantis (Ar)	1	0.2	0.2	100.0
Amphipoda (Ar)	1	0.2	0.2	100.0
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	100.0
Turbellaria (Pl)	1	0.2	0.2	100.0
Nemertinea E	1	0.2	0.2	100.0
Holothuria sp. (Ech)	1	0.2	0.2	100.0
Amphiuridae (Ech)	1	0.2	0.2	100.0
Echinoidea (Ech)	1	0.2	0.2	100.0
Hemichordata A	1	0.2	0.2	100.0
Glottidia pyramidata (Br)	1	0.2	0.2	100.0
Acteocina candei (Mo)	1	0.2	0.2	100.0
Epitonium krebsii (Mo)	1	0.2	0.2	100.0
Polyplacophora (Mo)	1	0.2	0.2	100.0
Polinices lacteus (?) (Mo)	1	0.2	0.2	100.0
Cadulus tetraschistus (Mo)	1	0.2	0.2	100.0
Pleurobranchea sp. A (Mo)	1	0.2	0.2	100.0
Arca zebra (Mo)	1	0.2	0.2	100.0
Chione grus (Mo)	1	0.2	0.2	100.0
Persicula fluctuata (Mo)	1	0.2	0.2	100.0
Chione sp. (Mo)	1	0.2	0.2	100.0
Aorotrema cistronium (Mo)	1	0.2	0.2	100.0
Tellina sp. (Mo)	1	0.2	0.2	100.0
Chama sp. (Mo)	1	0.2	0.2	100.0
Triphora pulchella (?) (Mo)	1	0.2	0.2	100.0
Varicorbula operculata (Mo)	1	0.2	0.2	100.0
Arca sp. (Mo)	1	0.2	0.2	100.0
Cardiidae (Mo)	1	0.2	0.2	100.0
Pectinidae (Mo)	1	0.2	0.2	100.0
Corbula sp. (Mo)	1	0.2	0.2	100.0
Mytilidae (Mo)	1	0.2	0.2	100.0
Aspidosiphon misakiensis (Si)	1	0.2	0.2	100.0
Drilonereis sp. (An)	1	0.2	0.2	100.0
Eunice antennata (An)	1	0.2	0.2	100.0
Syllis ferrugina (An)	1	0.2	0.2	100.0
Syllis gracilis (An)	1	0.2	0.2	100.0
Mesochaetopterus sp. (An)	1	0.2	0.2	100.0
Onuphis pallidula (An)	1	0.2	0.2	100.0
Phalacrostemma sp. (An)	1	0.2	0.2	100.0
Fabricinae (An)	1	0.2	0.2	100.0

Appendix 10 (Continued)

OS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Chaetozone setosa (An)	1	0.2	0.2	100.0
Eunice sp. (An)	1	0.2	0.2	100.0
Lumbrineris inflata (An)	1	0.2	0.2	100.0
Phyllodoce sp. B (An)	1	0.2	0.2	100.0
Prionospio sp. B (An)	1	0.2	0.2	100.0
Glycera americana (An)	1	0.2	0.2	100.0
Pseudeurythoe ambigua (An)	1	0.2	0.2	100.0
Glycera sp. A (An)	1	0.2	0.2	100.0
Aricidea suecica (An)	1	0.2	0.2	100.0
Nephtys squamosa (An)	1	0.2	0.2	100.0
Polycirrus eximius (An)	1	0.2	0.2	100.0
Scoloplos sp. A (An)	1	0.2	0.2	100.0
Podarke obscura (An)	1	0.2	0.2	100.0
Spio pettiboneae (An)	1	0.2	0.2	100.0
Hemipodus roseus (An)	1	0.2	0.2	100.0
Lysidice ninetta (An)	1	0.2	0.2	100.0
Polydora sp. (An)	1	0.2	0.2	100.0
Polydora sp. B (An)	1	0.2	0.2	100.0
Ampharete americana (An)	1	0.2	0.2	100.0
Polynoidae (An)	1	0.2	0.2	100.0
Sigalion arenicola (An)	1	0.2	0.2	100.0
Syllis spongicola (An)	1	0.2	0.2	100.0
Chrysopetalidae A (An)	1	0.2	0.2	100.0
Aonides mayaguezensis (An)	1	0.2	0.2	100.0
Petaloproctus socialis (An)	1	0.2	0.2	100.0

Appendix 10 (Continued)

OSO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Acanthohaustorius shoemakeri (Ar)	31	6.2	2.4	1.0
Tellina sp. (Mo)	7	1.4	1.2	2.5
Syllis hyalina (An)	7	1.4	1.2	2.5
Spiophanes bombyx (An)	6	1.2	1.0	4.0
Branchiostoma caribaeum (Ch)	5	1.0	1.0	6.0
Nematoda	5	1.0	0.8	6.0
Chrysopetalidae A (An)	5	1.0	1.0	6.0
Syllis alternata (An)	4	0.8	0.8	8.0
Acanthohaustorius millsi (Ar)	3	0.6	0.4	11.5
Erichthonius brasiliensis (Ar)	3	0.6	0.4	11.5
Podocerus sp. (Ar)	3	0.6	0.6	11.5
Eurydice piperata (Ar)	3	0.6	0.2	11.5
Glycera oxycephala (An)	3	0.6	0.2	11.5
Syllis sp. D (An)	3	0.6	0.4	11.5
Luconacia incerta (Ar)	2	0.4	0.4	18.0
Protohaustorius wigleyi (Ar)	2	0.4	0.4	18.0
Protohaustorius bousfieldi (Ar)	2	0.4	0.4	18.0
Echinoidea (Ech)	2	0.4	0.2	18.0
Onuphis sp. (An)	2	0.4	0.4	18.0
Pista palmata (An)	2	0.4	0.4	18.0
Oligochaeta (An)	2	0.4	0.2	18.0
Processa sp. (Ar)	1	0.2	0.2	35.0
Pagurus hendersoni (Ar)	1	0.2	0.2	35.0
Eurydice littoralis (Ar)	1	0.2	0.2	35.0
Photis sp. (Ar)	1	0.2	0.2	35.0
Phtisica marina (Ar)	1	0.2	0.2	35.0
Unciola sp. (Ar)	1	0.2	0.2	35.0
Nemertinea	1	0.2	0.2	35.0
Ophiuroidea (Ech)	1	0.2	0.2	35.0
Terebra floridana (Mo)	1	0.2	0.2	35.0
Favorinidae A (Mo)	1	0.2	0.4	35.0
Crassinella lunulata (Mo)	1	0.2	0.2	35.0
Aspidosiphon spinalis (Si)	1	0.2	0.2	35.0
Sipunculida	1	0.2	0.2	35.0
Ophelia denticulata (An)	1	0.2	0.2	35.0
Arabella sp. A (An)	1	0.2	0.2	35.0
Chaetozone setosa (An)	1	0.2	0.2	35.0
Harmothoe sp. (An)	1	0.2	0.2	35.0
Caulleriella sp. (An)	1	0.2	0.2	35.0
Exogone sp. (An)	1	0.2	0.2	35.0
Prionospio sp. B (An)	1	0.2	0.2	35.0
Protodorvillea kefersteini (An)	1	0.2	0.2	35.0
Sthenelais boa (An)	1	0.2	0.2	35.0
Pseudeurythoe ambigua (An)	1	0.2	0.2	35.0
Diopatra cuprea (An)	1	0.2	0.2	35.0
Spionidae (An)	1	0.2	0.2	35.0
Spionidae C (An)	1	0.2	0.2	35.0
Sigalion arenicola (An)	1	0.2	0.2	35.0

Miscellaneous Colonial Invertebrates and Algae
Cliona caribbaea (Po)
Ulva sp. (Chl)
Algae

Appendix 10 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Pista palmata (An)	47	9.4	6.0	1.0
Ampelisca sp. B (Ar)	38	7.6	4.7	2.0
Unciola laminosa (Ar)	35	7.0	4.0	3.0
Spiophanes bombyx (An)	22	4.4	1.6	4.0
Amphipoda E (Ar)	20	4.0	2.6	5.0
Glycera tesselata (An)	18	3.6	0.7	6.0
Protomedia sp. A (Ar)	16	3.2	2.7	7.0
Polyplacophora A (Mo)	15	3.0	1.8	8.0
Micropanope sp. (Ar)	12	2.4	1.5	9.5
Melita appendiculata (Ar)	12	2.4	1.3	9.5
Pagurus sp. (Ar)	11	2.2	1.1	11.5
Spionidae C (An)	11	2.2	1.2	11.5
Phtisica marina (Ar)	9	1.8	1.1	13.0
Erichthonius sp. A (Ar)	8	1.6	1.4	15.0
Amphipoda G (Ar)	8	1.6	1.0	15.0
Onuphis pallidula (An)	8	1.6	0.7	15.0
Luconacia incerta (Ar)	7	1.4	0.7	19.0
Rudilemboides naglei (Ar)	7	1.4	0.9	19.0
Maera sp. B (Ar)	7	1.4	1.4	19.0
Elasmopus sp. C (Ar)	7	1.4	1.4	19.0
Sphaerosyllis pirifera (An)	7	1.4	0.7	19.0
Ophiuroidea (Ech)	6	1.2	0.6	23.5
Caulleriella sp. (An)	6	1.2	1.0	23.5
Laonice cirrata (An)	6	1.2	0.8	23.5
Eunice vittata (An)	6	1.2	0.8	23.5
Eurydice piperata (Ar)	5	1.0	0.8	29.5
Nymphon floridanum (Ar)	5	1.0	1.0	29.5
Thyone sp. (Ech)	5	1.0	0.8	29.5
Crassinella lunulata (Mo)	5	1.0	1.0	29.5
Goniada sp. (An)	5	1.0	0.6	29.5
Chone americana (An)	5	1.0	1.0	29.5
Polycirrus carolinensis (An)	5	1.0	0.5	29.5
Syllis spongicola (An)	5	1.0	0.6	29.5
Accalanthura crenulata (Ar)	4	0.8	0.6	38.5
Chevalia sp. (Ar)	4	0.8	0.8	38.5
Nematoda	4	0.8	0.6	38.5
Pelecypoda (Mo)	4	0.8	0.4	38.5
Pomatoceros americanus (An)	4	0.8	0.6	38.5
Harmothoe sp. A (An)	4	0.8	0.6	38.5
Onuphis nebulosa (An)	4	0.8	0.6	38.5
Syllis cornuta (An)	4	0.8	0.4	38.5
Syllidae (An)	4	0.8	0.5	38.5
Chrysopetalidae A (An)	4	0.8	0.6	38.5
Munida pusilla (Ar)	3	0.6	0.6	51.0
Trichophoxus floridanus (Ar)	3	0.6	0.6	51.0
Podocerus sp. (Ar)	3	0.6	0.6	51.0
Nemertinea A	3	0.6	0.4	51.0
Genocidaris maculata (Ech)	3	0.6	0.6	51.0
Echinoidea (Ech)	3	0.6	0.4	51.0
Tellina sp. (Mo)	3	0.6	0.4	51.0
Corbula sp. (Mo)	3	0.6	0.6	51.0
Nephtys squamosa (An)	3	0.6	0.4	51.0
Syllis sp. D (An)	3	0.6	0.4	51.0
Nereidae B (An)	3	0.6	0.4	51.0
Syllidae C (An)	3	0.6	0.6	51.0
Ampharete americana (An)	3	0.6	0.4	51.0
Prionospio cristata (An)	3	0.6	0.4	51.0
Notomastus sp. (An)	3	0.6	0.4	51.0
Alpheus normanni (Ar)	2	0.4	0.4	79.0

Appendix 10 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{X}$	SE	Rank by Number
Xanthidae (Ar)	2	0.4	0.2	79.0
Thor sp. (Ar)	2	0.4	0.2	79.0
Caridea (Ar)	2	0.4	0.4	79.0
Liljeborgia sp. (Ar)	2	0.4	0.2	79.0
Eurydice littoralis (Ar)	2	0.4	0.4	79.0
Acanthohaustorius millsi (Ar)	2	0.4	0.2	79.0
Lembos smithi (Ar)	2	0.4	0.4	79.0
Photis sp. (Ar)	2	0.4	0.2	79.0
Tanaidacea B (Ar)	2	0.4	0.2	79.0
Maera sp. A (Ar)	2	0.4	0.4	79.0
Melitidae A (Ar)	2	0.4	0.4	79.0
Nemertinea	2	0.4	0.2	79.0
Amphiodia pulchella (Ech)	2	0.4	0.4	79.0
Calyptraea centralis (?) (Mo)	2	0.4	0.2	79.0
Corbula dietziana (Mo)	2	0.4	0.2	79.0
Aorotrema cistronium (Mo)	2	0.4	0.4	79.0
Gastropoda (Mo)	2	0.4	0.2	79.0
Pectinidae (Mo)	2	0.4	0.2	79.0
Terebellides stroemi (An)	2	0.4	0.4	79.0
Serpulidae (An)	2	0.4	0.2	79.0
Phalacrostemma sp. (An)	2	0.4	0.2	79.0
Magelona sp. B (An)	2	0.4	0.4	79.0
Notomastus americanus (An)	2	0.4	0.2	79.0
Eunice sp. A (An)	2	0.4	0.4	79.0
Megalomma bioculatum (An)	2	0.4	0.4	79.0
Syllis alternata (An)	2	0.4	0.2	79.0
Phyllodoce sp. (An)	2	0.4	0.2	79.0
Phyllodoce sp. A (An)	2	0.4	0.4	79.0
Protodorvillea kefersteini (An)	2	0.4	0.4	79.0
Loimia medusa (An)	2	0.4	0.2	79.0
Syllis regulata carolinae (An)	2	0.4	0.2	79.0
Owenia fusiformis (An)	2	0.4	0.2	79.0
Oligochaeta (An)	2	0.4	0.2	79.0
Hemipodus roseus (An)	2	0.4	0.4	79.0
Sabellidae B (An)	2	0.4	0.4	79.0
Syllidae D (An)	2	0.4	0.4	79.0
Syllidae E (An)	2	0.4	0.4	79.0
Eulalia sanguinea (An)	2	0.4	0.2	79.0
Syllis hyalina (An)	2	0.4	0.2	79.0
Lumbrinerides acuta (An)	2	0.4	0.2	79.0
Euryponidae A (Po)	1	0.2	0.2	129.5
Sicyonia dorsalis (Ar)	1	0.2	0.2	129.5
Acetes americanus (Ar)	1	0.2	0.2	129.5
Ranilia muricata (Ar)	1	0.2	0.2	129.5
Hypoconcha arcuata (Ar)	1	0.2	0.2	129.5
Hypoconcha sabulosa (Ar)	1	0.2	0.2	129.5
Upogebia sp. (Ar)	1	0.2	0.2	129.5
Metoporhaphis calcarata (Ar)	1	0.2	0.2	129.5
Lucifer faxoni (?) (Ar)	1	0.2	0.2	129.5
Automate sp. (Ar)	1	0.2	0.2	129.5
Parthenope sp. (Ar)	1	0.2	0.2	129.5
Pinnixa sp. (Ar)	1	0.2	0.2	129.5
Automate kingsleyi (Ar)	1	0.2	0.2	129.5
Alpheus sp. (Ar)	1	0.2	0.2	129.5
Apseudes sp. B (Ar)	1	0.2	0.2	129.5
Erichthonius brasiliensis (Ar)	1	0.2	0.2	129.5
Bodotriidae A (Ar)	1	0.2	0.2	129.5
Leptochelia sp. (Ar)	1	0.2	0.2	129.5
Leucothoe spinicarpa (Ar)	1	0.2	0.2	129.5

Appendix 10 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Unciola sp. B (Ar)	1	0.2	0.2	129.5
Podoceropsis sp. (Ar)	1	0.2	0.2	129.5
Stylocheiron sp. (?) (Ar)	1	0.2	0.2	129.5
Apanthura magnifica (Ar)	1	0.2	0.2	129.5
Tanystylidae A (Ar)	1	0.2	0.2	129.5
Callipallene sp. (Ar)	1	0.2	0.2	129.5
Ophiothrix angulata (Ech)	1	0.2	0.2	129.5
Amphiuridae (Ech)	1	0.2	0.2	129.5
Clypeasteroida (Ech)	1	0.2	0.2	129.5
Encope sp. (Ech)	1	0.2	0.2	129.5
Semele bellastriata (Mo)	1	0.2	0.2	129.5
Gouldia cerina (Mo)	1	0.2	0.2	129.5
Murex florifer dilectus (Mo)	1	0.2	0.2	129.5
Cardiidae (Mo)	1	0.2	0.2	129.5
Sipunculida A	1	0.2	0.2	129.5
Sipunculida B	1	0.2	0.2	129.5
Eunice antennata (An)	1	0.2	0.2	129.5
Trypanosyllis sp. (An)	1	0.2	0.2	129.5
Psammolyce ctenidophora (An)	1	0.2	0.2	129.5
Lumbrineriopsis paradoxa (An)	1	0.2	0.2	129.5
Sigalionidae (An)	1	0.2	0.2	129.5
Pisione remota (An)	1	0.2	0.2	129.5
Syllis ferrugina (An)	1	0.2	0.2	129.5
Aglaophamus sp. (An)	1	0.2	0.2	129.5
Syllis gracilis (An)	1	0.2	0.2	129.5
Phyllodoce madeirensis (An)	1	0.2	0.2	129.5
Sabellaria vulgaris vulgaris (An)	1	0.2	0.2	129.5
Prionospio sp. B (An)	1	0.2	0.2	129.5
Pseudeurythoe ambigua (An)	1	0.2	0.2	129.5
Polycirrus eximius (An)	1	0.2	0.2	129.5
Arabella mutans (An)	1	0.2	0.2	129.5
Podarke obscura (An)	1	0.2	0.2	129.5
Odontosyllis fulgurans (An)	1	0.2	0.2	129.5
Poecilochaetus sp. (An)	1	0.2	0.2	129.5
Hesionidae (An)	1	0.2	0.2	129.5
Thelepus setosus (An)	1	0.2	0.2	129.5
Lysidice ninetta (An)	1	0.2	0.2	129.5
Polydora sp. (An)	1	0.2	0.2	129.5
Syllidae A (An)	1	0.2	0.2	129.5
Nephtyidae (An)	1	0.2	0.2	129.5
Chrysopetalidae D (An)	1	0.2	0.2	129.5

Miscellaneous Colonial Invertebrates and Algae
Halichondriida F (Po)
Algae

Appendix 11. Ranked abundance of invertebrate and macroalgae species collected by suction and grab samplers at each station during summer, 1980. Average ($\bar{x}$) density, expressed as number per 0.10 m^2, and standard error (SE) are indicated. Taxa codes are as follows: An = Annelida, Ar = Arthropoda, Br = Brachiopoda, Bry = Bryozoa, Ch = Chordata, Chl = Chlorophyta, Cn = Cnidaria, Ech = Echinodermata, Mo = Mollusca, Ph = Phoronida, Pl = Platyhelminthes, Po = Porifera, Si = Sipunculida.

Appendix 11 (Continued)

ISO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Pagurus hendersoni (Ar)	22	4.4	1.2	1.0
Aspidosiphon spinalis (Si)	21	4.2	1.5	2.0
Axiothella mucosa (An)	12	2.4	1.7	3.5
Syllis spongicola (An)	12	2.4	2.4	3.5
Ampelisca agassizi (Ar)	7	1.4	0.7	5.0
Erichthonius brasiliensis (Ar)	6	1.2	1.0	6.5
Owenia fusiformis (An)	6	1.2	0.2	6.5
Paracerceis caudata (Ar)	5	1.0	0.3	10.0
Marginella virginiana (Mo)	5	1.0	1.0	10.0
Aspidosiphon misakiensis (Si)	5	1.0	0.6	10.0
Magelona sp. A (An)	5	1.0	1.0	10.0
Filograna implexa (An)	5	1.0	1.0	10.0
Lysianopsis alba (Ar)	4	0.8	0.8	13.5
Turbonilla sp. A (Mo)	4	0.8	0.8	13.5
Pitho lherminieri (Ar)	3	0.6	0.4	17.0
Unciola laminosa (Ar)	3	0.6	0.4	17.0
Nematoda	3	0.6	0.4	17.0
Marginella hartleyanum (Mo)	3	0.6	0.2	17.0
Ceratonereis mirabilis (An)	3	0.6	0.6	17.0
Homaxinella waltonsmithi (Po)	2	0.4	0.2	27.0
Sicyonia typica (Ar)	2	0.4	0.2	27.0
Pelia mutica (Ar)	2	0.4	0.2	27.0
Pagurus sp. (Ar)	2	0.4	0.4	27.0
Lembos smithi (Ar)	2	0.4	0.4	27.0
Bowmaniella portoricensis (Ar)	2	0.4	0.4	27.0
Gastrochaena hians (Mo)	2	0.4	0.2	27.0
Mangelia rugirima (Mo)	2	0.4	0.2	27.0
Marginella roscida (Mo)	2	0.4	0.4	27.0
Varicorbula operculata (Mo)	2	0.4	0.2	27.0
Corbula swiftiana (Mo)	2	0.4	0.4	27.0
Ampharete acutifrons (An)	2	0.4	0.4	27.0
Pseudeurythoe ambigua (An)	2	0.4	0.4	27.0
Spiophanes bombyx (An)	2	0.4	0.2	27.0
Eunice vittata (An)	2	0.4	0.2	27.0
Molgula occidentalis (Ch)	1	0.2	0.2	63.5
Leptochela serratorbita (Ar)	1	0.2	0.2	63.5
Alpheus normanni (Ar)	1	0.2	0.2	63.5
Pilumnus sp. (Ar)	1	0.2	0.2	63.5
Pinnotheres maculatus (Ar)	1	0.2	0.2	63.5
Mesorhoea sexspinosa (?) (Ar)	1	0.2	0.2	63.5
Stenocionops furcata coelata (Ar)	1	0.2	0.2	63.5
Pagurus carolinensis (Ar)	1	0.2	0.2	63.5
Periclimenes sp. (Ar)	1	0.2	0.2	63.5
Leptochelia sp. (Ar)	1	0.2	0.2	63.5
Apanthura magnifica (Ar)	1	0.2	0.2	63.5
Melita appendiculata (Ar)	1	0.2	0.2	63.5
Amphipoda B (Ar)	1	0.2	0.2	63.5
Amphipoda H (Ar)	1	0.2	0.2	63.5
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	63.5
Nemertinea	1	0.2	0.2	63.5
Leptosynapta sp. (Ech)	1	0.2	0.2	63.5
Lytechinus variegatus (Ech)	1	0.2	0.2	63.5
Ophiuroidea (Ech)	1	0.2	0.2	63.5
Glottidia pyramidata (Br)	1	0.2	0.2	63.5
Nudibranchia (Mo)	1	0.2	0.2	63.5
Glycymeris pectinata (Mo)	1	0.2	0.2	63.5
Haminoea solitaria (Mo)	1	0.2	0.2	63.5
Turbonilla interrupta (Mo)	1	0.2	0.2	63.5
Chaetopleura apiculata (Mo)	1	0.2	0.2	63.5
Diplodonta semiaspera (Mo)	1	0.2	0.2	63.5

Appendix 11 (Continued)

ISO1
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Chione grus (Mo)	1	0.2	0.2	63.5
Musculus sp. A (Mo)	1	0.2	0.2	63.5
Corbula dietziana (Mo)	1	0.2	0.2	63.5
Gouldia cerina (Mo)	1	0.2	0.2	63.5
Tellina sp. (Mo)	1	0.2	0.2	63.5
Marginella sp. (Mo)	1	0.2	0.2	63.5
Strombiformis sp. (Mo)	1	0.2	0.2	63.5
Lithophaga bisulcata (Mo)	1	0.2	0.2	63.5
Turbonilla sp. (Mo)	1	0.2	0.2	63.5
Diplodonta sp. (Mo)	1	0.2	0.2	63.5
Crassinella lunulata (Mo)	1	0.2	0.2	63.5
Cerithium sp. (Mo)	1	0.2	0.2	63.5
Olivella sp. (Mo)	1	0.2	0.2	63.5
Austraeolis catina (Mo)	1	0.2	0.2	63.5
Sipunculus nudus (Si)	1	0.2	0.2	63.5
Glycera tesselata (An)	1	0.2	0.2	63.5
Harmothoe sp. A (An)	1	0.2	0.2	63.5
Exogone sp. (An)	1	0.2	0.2	63.5
Lumbrineris inflata (An)	1	0.2	0.2	63.5
Chone americana (An)	1	0.2	0.2	63.5
Goniadides carolinae (An)	1	0.2	0.2	63.5
Nephtys incisa (An)	1	0.2	0.2	63.5
Syllis regulata carolinae (An)	1	0.2	0.2	63.5
Prionospio cirrobranchiata (An)	1	0.2	0.2	63.5
Scoloplos sp. B (An)	1	0.2	0.2	63.5
Arabella iricolor (An)	1	0.2	0.2	63.5
Polydora websteri (An)	1	0.2	0.2	63.5
Syllidae H (An)	1	0.2	0.2	63.5
Brania clavata (An)	1	0.2	0.2	63.5
Chrysopetalidae A (An)	1	0.2	0.2	63.5
Chrysopetalidae B (An)	1	0.2	0.2	63.5
Syllis hyalina (An)	1	0.2	0.2	63.5

Miscellaneous Colonial Invertebrates and Algae
Higginsia strigilata (Po)
Halichondria bowerbanki (Po)
Leuconia crustacea (Po)
Lissodendoryx sigmata (Po)
Haplosclerida E (Po)
Ciocalapata gibbsi (Po)
Anthosigmella varians (Po)
Hadromerida F (Po)
Haplosclerida D (Po)
Hadromerida C (Po)
Algae

Appendix 11 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Filograna implexa (An)	3938	787.6	787.6	1.0
Ampelisca agassizi (Ar)	45	9.0	3.1	2.0
Lembos smithi (Ar)	25	5.0	1.4	3.0
Amphioplus sp. (Ech)	22	4.4	4.4	4.0
Chondrilla nucula (Po)	18	3.6	2.4	5.5
Megalobrachium soriatum (Ar)	18	3.6	2.2	5.5
Pagurus hendersoni (Ar)	16	3.2	2.5	7.0
Pilumnus floridanus (Ar)	15	3.0	1.5	8.0
Elasmopus sp. A (Ar)	12	2.4	1.1	9.5
Mitrella lunata (Mo)	12	2.4	2.4	9.5
Ophiothrix angulata (Ech)	11	2.2	1.0	11.5
Pista quadrilobata (An)	11	2.2	1.2	11.5
Pagurus carolinensis (Ar)	10	2.0	1.0	13.5
Aspidosiphon spinalis (Si)	10	2.0	1.0	13.5
Tellina agilis (Mo)	9	1.8	1.8	15.0
Anachis hotessieriana (Mo)	8	1.6	1.1	17.0
Gouldia cerina (Mo)	8	1.6	1.1	17.0
Lumbrineris inflata (An)	8	1.6	0.5	17.0
Pilumnus sp. (Ar)	7	1.4	0.7	20.0
Crepidula aculeata (Mo)	7	1.4	0.9	20.0
Goniadides carolinae (An)	7	1.4	1.4	20.0
Podarke obscura (An)	6	1.2	0.5	22.0
Synalpheus townsendi (Ar)	5	1.0	0.6	27.5
Anachis avara	5	1.0	0.8	27.5
Arca zebra (Mo)	5	1.0	0.6	27.5
Mangelia rugirima (Mo)	5	1.0	0.8	27.5
Nassarina minor (Mo)	5	1.0	0.8	27.5
Websterinereis tridentata (An)	5	1.0	1.0	27.5
Terebellidae E (An)	5	1.0	1.0	27.5
Syllis spongicola (An)	5	1.0	0.8	27.5
Chrysopetalidae A (An)	5	1.0	0.8	27.5
Syllis hyalina (An)	5	1.0	0.4	27.5
Molgula occidentalis (Ch)	4	0.8	0.8	37.0
Ircinia ramosa (Po)	4	0.8	0.6	37.0
Ampelisca sp. C (Ar)	4	0.8	0.4	37.0
Nemertinea	4	0.8	0.6	37.0
Anachis lafresnayi (Mo)	4	0.8	0.8	37.0
Turbonilla sp. (Mo)	4	0.8	0.4	37.0
Sipunculida A	4	0.8	0.4	37.0
Nephtys picta (An)	4	0.8	0.8	37.0
Eulalia sanguinea (An)	4	0.8	0.6	37.0
Pinnixa sp. (Ar)	3	0.6	0.4	49.5
Synalpheus sp. (Ar)	3	0.6	0.4	49.5
Paracerceis caudata (Ar)	3	0.6	0.2	49.5
Tellina americana (Mo)	3	0.6	0.6	49.5
Lucinoma filosa (Mo)	3	0.6	0.6	49.5
Aspidosiphon misakiensis (Si)	3	0.6	0.6	49.5
Sabellaria floridensis (An)	3	0.6	0.6	49.5
Phyllodoce fragilis (An)	3	0.6	0.4	49.5
Polydora tetrabranchia (An)	3	0.6	0.6	49.5
Timarete sp. (An)	3	0.6	0.2	49.5
Pherusa ehlersi (An)	3	0.6	0.4	49.5
Palolo siciliensis (An)	3	0.6	0.6	49.5
Axiothella mucosa (An)	3	0.6	0.6	49.5
Pherusa inflata (An)	3	0.6	0.2	49.5
Mediomastus californiensis (An)	3	0.6	0.6	49.5
Syllidae B (An)	3	0.6	0.4	49.5
Scypha barbadensis (Po)	2	0.4	0.4	74.0
Cinachyra alloclada (Po)	2	0.4	0.4	74.0
Synalpheus minus (Ar)	2	0.4	0.4	74.0

Appendix 11 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Pseudomedaeus agassizii (Ar)	2	0.4	0.4	74.0
Xanthidae (Ar)	2	0.4	0.4	74.0
Mithrax acuticornis (Ar)	2	0.4	0.4	74.0
Mithrax acuticornis (?) (Ar)	2	0.4	0.4	74.0
Pagurus sp. (Ar)	2	0.4	0.4	74.0
Thor floridanus (Ar)	2	0.4	0.4	74.0
Mithrax sp. (?) (Ar)	2	0.4	0.4	74.0
Micropanope sp. (Ar)	2	0.4	0.4	74.0
Acanthohaustorius sp. (Ar)	2	0.4	0.4	74.0
Lembos unicornis (Ar)	2	0.4	0.2	74.0
Leucothoe spinicarpa (Ar)	2	0.4	0.2	74.0
Maera sp. A (Ar)	2	0.4	0.4	74.0
Apanthura magnifica (Ar)	2	0.4	0.2	74.0
Arbacia punctulata (Ech)	2	0.4	0.4	74.0
Amphiodia pulchella (Ech)	2	0.4	0.4	74.0
Amphiuridae (Ech)	2	0.4	0.4	74.0
Glottidia pyramidata (Br)	2	0.4	0.4	74.0
Vexillum sp. (Mo)	2	0.4	0.2	74.0
Chione grus (Mo)	2	0.4	0.2	74.0
Seila adamsi (Mo)	2	0.4	0.2	74.0
Crassinella lunulata (Mo)	2	0.4	0.2	74.0
Syllis gracilis (An)	2	0.4	0.2	74.0
Ceratonereis mirabilis (An)	2	0.4	0.2	74.0
Websterinereis sp. A (An)	2	0.4	0.2	74.0
Onuphis nebulosa (An)	2	0.4	0.4	74.0
Syllis regulata carolinae (An)	2	0.4	0.4	74.0
Phyllodoce castanea (An)	2	0.4	0.4	74.0
Owenia fusiformis (An)	2	0.4	0.2	74.0
Polycirrus carolinensis (An)	2	0.4	0.2	74.0
Eunice vittata (An)	2	0.4	0.2	74.0
Homaxinella waltonsmithi (Po)	1	0.4	0.2	142.0
Craniellidae B (Po)	1	0.2	0.2	142.0
Synalpheus fritzmuelleri (Ar)	1	0.2	0.2	142.0
Hippolyte pleuracanthus (Ar)	1	0.2	0.2	142.0
Paguristes tortugae (Ar)	1	0.2	0.2	142.0
Albunea gibbesii (?) (Ar)	1	0.2	0.2	142.0
Hypoconcha sabulosa (Ar)	1	0.2	0.2	142.0
Euryplax nitida (Ar)	1	0.2	0.2	142.0
Pitho lherminieri (Ar)	1	0.2	0.2	142.0
Pelia mutica (Ar)	1	0.2	0.2	142.0
Mithrax pleuracanthus (Ar)	1	0.2	0.2	142.0
Hippolytidae (?) (Ar)	1	0.2	0.2	142.0
Thor manningi (Ar)	1	0.2	0.2	142.0
Periclimenes sp. (Ar)	1	0.2	0.2	142.0
Penaeidae (Ar)	1	0.2	0.2	142.0
Mithrax sp. (Ar)	1	0.2	0.2	142.0
Palaemonidae (Ar)	1	0.2	0.2	142.0
Podochela sp. (Ar)	1	0.2	0.2	142.0
Polycheria sp. (Ar)	1	0.2	0.2	142.0
Phyllocarida (Ar)	1	0.2	0.2	142.0
Lysianopsis alba (Ar)	1	0.2	0.2	142.0
Apseudes sp. A (Ar)	1	0.2	0.2	142.0
Amphithoe sp. A (Ar)	1	0.2	0.2	142.0
Bowmaniella portoricensis (Ar)	1	0.2	0.2	142.0
Lysianassa sp. (Ar)	1	0.2	0.2	142.0
Tanaidacea B (Ar)	1	0.2	0.2	142.0
Jaeropsis coralicola (Ar)	1	0.2	0.2	142.0
Ampelisca sp. A (Ar)	1	0.2	0.2	142.0
Seba sp. (Ar)	1	0.2	0.2	142.0
Caprella penantis (Ar)	1	0.2	0.2	142.0
Caprellidae A (Ar)	1	0.2	0.2	142.0
Turbellaria (Pl)	1	0.2	0.2	142.0

Appendix 11 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Nemertinea E	1	0.2	0.2	142.0
Echinaster serpentarius (Ech)	1	0.2	0.2	142.0
Thyone pseudofusus (Ech)	1	0.2	0.2	142.0
Hemipholis sp. (Ech)	1	0.2	0.2	142.0
Ocnus pygmaeus (Ech)	1	0.2	0.2	142.0
Nematoda	1	0.2	0.2	142.0
Natica pusilla (Mo)	1	0.2	0.2	142.0
Crepidula sp. (Mo)	1	0.2	0.2	142.0
Nassarius albus (Mo)	1	0.2	0.2	142.0
Musculus lateralis (Mo)	1	0.2	0.2	142.0
Chaetopleura apiculata (Mo)	1	0.2	0.2	142.0
Chama macerophylla (Mo)	1	0.2	0.2	142.0
Laevicardium pictum (Mo)	1	0.2	0.2	142.0
Corbula dietziana (Mo)	1	0.2	0.2	142.0
Lyonsia beana (Mo)	1	0.2	0.2	142.0
Pelecypoda (Mo)	1	0.2	0.2	142.0
Tellina sp. (Mo)	1	0.2	0.2	142.0
Chama congregata (Mo)	1	0.2	0.2	142.0
Marginella sp. (Mo)	1	0.2	0.2	142.0
Strombiformis sp. (Mo)	1	0.2	0.2	142.0
Dendrodoris sp. (Mo)	1	0.2	0.2	142.0
Erato maugeriae (Mo)	1	0.2	0.2	142.0
Lioberus castaneus (Mo)	1	0.2	0.2	142.0
Cumingia coarctata (Mo)	1	0.2	0.2	142.0
Mitrella sp. (Mo)	1	0.2	0.2	142.0
Epitonium humphreysi (Mo)	1	0.2	0.2	142.0
Cerithium sp. (Mo)	1	0.2	0.2	142.0
Cumingia sp. (Mo)	1	0.2	0.2	142.0
Musculus niger (Mo)	1	0.2	0.2	142.0
Chama lactuca (Mo)	1	0.2	0.2	142.0
Strombiformis auricinctus (Mo)	1	0.2	0.2	142.0
Turritella sp. (Mo)	1	0.2	0.2	142.0
Mitrella raveneli (Mo)	1	0.2	0.2	142.0
Murex recurvirostris rubidus (Mo)	1	0.2	0.2	142.0
Ampharete acutifrons (An)	1	0.2	0.2	142.0
Eulalia macroceros (An)	1	0.2	0.2	142.0
Psammolyce ctenidophora (An)	1	0.2	0.2	142.0
Onuphis pallidula (An)	1	0.2	0.2	142.0
Serpulidae (An)	1	0.2	0.2	142.0
Serpulidae H (An)	1	0.2	0.2	142.0
Magelona sp. A (An)	1	0.2	0.2	142.0
Magelona sp. C (An)	1	0.2	0.2	142.0
Sabellaria vulgaris vulgaris (An)	1	0.2	0.2	142.0
Malacoceros glutaeus (An)	1	0.2	0.2	142.0
Megalomma bioculatum (An)	1	0.2	0.2	142.0
Hydroides sp. B (An)	1	0.2	0.2	142.0
Autolytus sp. (An)	1	0.2	0.2	142.0
Eunice filamentosa (An)	1	0.2	0.2	142.0
Dasybranchus lunulatus (An)	1	0.2	0.2	142.0
Chone americana (An)	1	0.2	0.2	142.0
Prionospio sp. (An)	1	0.2	0.2	142.0
Brania sp. (An)	1	0.2	0.2	142.0
Sabellaria vulgaris (An)	1	0.2	0.2	142.0
Scoloplos rubra (An)	1	0.2	0.2	142.0
Glycera sp. B (An)	1	0.2	0.2	142.0
Loimia medusa (An)	1	0.2	0.2	142.0
Nephtys squamosa (An)	1	0.2	0.2	142.0
Polycirrus eximius (An)	1	0.2	0.2	142.0
Spiophanes bombyx (An)	1	0.2	0.2	142.0
Polydora websteri (An)	1	0.2	0.2	142.0
Spionidae B (An)	1	0.2	0.2	142.0

Appendix 11 (Continued)

ISO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Armandia maculata (An)	1	0.2	0.2	142.0
Nereidae (An)	1	0.2	0.2	142.0
Nereidae B (An)	1	0.2	0.2	142.0
Oligochaeta (An)	1	0.2	0.2	142.0
Sabellidae C (An)	1	0.2	0.2	142.0
Syllidae A (An)	1	0.2	0.2	142.0
Brania clavata (An)	1	0.2	0.2	142.0
Nereis sp. (An)	1	0.2	0.2	142.0
Prionospio cristata (An)	1	0.2	0.2	142.0
Chrysopetalidae B (An)	1	0.2	0.2	142.0

Miscellaneous Colonial Invertebrates and Algae
Synoicidae (Ch)
Ciocalapata gibbsi (Po)
Cinachyra sp. (Po)
Lissodendoryx isodictyalis (Po)
Distaplia bermudensis (Ch)
Symplegma viride (Ch)
Didemnum candidum (Ch)
Halichondria bowerbanki (Po)
Lissodendoryx sigmata (Po)
Spirastrellidae A (Po)
Molgula occidentalis (Ch)
Homaxinella waltonsmithi (Po)
Higginsia strigilata (Po)
Anthosigmella varians (Po)
Halichondriida C (Po)
Timea mixta (Po)
Algae

Appendix 11 (Continued)

IS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Ampelisca agassizi (Ar)	118	23.6	12.7	1.0
Lumbrineris coccinea (An)	50	10.0	7.9	2.5
Exogone dispar (An)	50	10.0	4.5	2.5
Aspidosiphon spinalis (Si)	46	9.2	5.1	4.0
Ophiothrix angulata (Ech)	45	9.0	6.3	5.0
Filograna implexa (An)	41	8.2	8.2	6.0
Photis sp. (Ar)	37	7.4	4.5	7.0
Luconacia incerta (Ar)	35	7.0	4.0	8.0
Axiothella mucosa (An)	32	6.4	2.4	9.0
Pagurus sp. (Ar)	29	5.8	2.3	10.0
Tanaidacea A (Ar)	28	5.6	1.1	11.5
Amphiodia pulchella (Ech)	28	5.6	2.3	11.5
Megalomma bioculatum (An)	27	5.4	2.5	13.0
Lysianopsis alba (Ar)	25	5.0	4.5	14.5
Chrysopetalidae A (An)	25	5.0	1.4	14.5
Nicomache trispinata (An)	20	4.0	2.2	16.0
Polycheria sp. (Ar)	18	3.6	3.6	17.0
Pilumnus sp. (Ar)	17	3.4	2.9	18.0
Elasmopus sp. A (Ar)	16	3.2	2.7	19.5
Lumbrineris inflata (An)	16	3.2	2.2	19.5
Megalobrachium soriatum (Ar)	13	2.6	2.6	23.0
Lembos smithi (Ar)	13	2.6	1.8	23.0
Nematoda	13	2.6	2.1	23.0
Gouldia cerina (Mo)	13	2.6	1.0	23.0
Polycirrus carolinensis (An)	13	2.6	2.6	23.0
Anoplodactylus petiolatus (Ar)	12	2.4	0.9	26.5
Nemertinea	12	2.4	1.0	26.5
Micropanope sp. (Ar)	11	2.2	1.7	29.0
Acanthohaustorius sp. (Ar)	11	2.2	2.2	29.0
Syllis hyalina (An)	11	2.2	1.7	29.0
Craniellidae B (Po)	10	2.0	0.8	33.5
Ampelisca vadorum (Ar)	10	2.0	1.5	33.5
Ophiactis sp. (Ech)	10	2.0	2.0	33.5
Sipunculida A (Si)	10	2.0	1.5	33.5
Ampharete acutifrons (An)	10	2.0	0.8	33.5
Pista quadrilobata (An)	10	2.0	2.0	33.5
Clathrina coriacea (Po)	9	1.8	1.6	38.0
Corbula dietziana (Mo)	9	1.8	0.8	38.0
Phyllodoce longipes (An)	9	1.8	0.9	38.0
Colomastix sp. B (Ar)	8	1.6	1.6	41.5
Apanthura magnifica (Ar)	8	1.6	1.4	41.5
Amphipoda E (Ar)	8	1.6	1.0	41.5
Syllis spongicola (An)	8	1.6	0.9	41.5
Gammaropsis sp. (Ar)	7	1.4	1.4	45.5
Bowmaniella portoricensis (Ar)	7	1.4	0.5	45.5
Syllis alternata (An)	7	1.4	0.7	45.5
Chone americana (An)	7	1.4	1.0	45.5
Erichthonius brasiliensis (Ar)	6	1.2	1.0	48.5
Varicorbula operculata (Mo)	6	1.2	0.6	48.5
Chondrilla nucula (Po)	5	1.0	1.0	55.5
Pelia mutica (Ar)	5	1.0	0.8	55.5
Pagurus carolinensis (Ar)	5	1.0	0.4	55.5
Unciola laminosa (Ar)	5	1.0	0.4	55.5
Tanaidacea B (Ar)	5	1.0	0.5	55.5
Caprella penantis (Ar)	5	1.0	1.0	55.5
Hemipholis sp. (Ech)	5	1.0	0.8	55.5
Crassinella lunulata (Mo)	5	1.0	0.3	55.5
Syllis gracilis (An)	5	1.0	1.0	55.5
Dodecaceria corallii (An)	5	1.0	1.0	55.5
Spionidae B (An)	5	1.0	0.3	55.5

Appendix 11 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Eunice vittata (An)	5	1.0	0.4	55.5
Scypha barbadensis (Po)	4	0.8	0.8	72.5
Cinachyra kuekenthali (Po)	4	0.8	0.4	72.5
Pilumnus floridanus (Ar)	4	0.8	0.4	72.5
Pseudomedaeus agassizii (Ar)	4	0.8	0.8	72.5
Lucifer faxoni (Ar)	4	0.8	0.5	72.5
Synalpheus sp. (Ar)	4	0.8	0.8	72.5
Paracerceis caudata (Ar)	4	0.8	0.5	72.5
Leucothoe spinicarpa (Ar)	4	0.8	0.8	72.5
Ophiostigma sp. (Ech)	4	0.8	0.6	72.5
Nassarius albus (Mo)	4	0.8	0.8	72.5
Chione latilirata (Mo)	4	0.8	0.4	72.5
Tellina agilis (Mo)	4	0.8	0.8	72.5
Cumingia coarctata (Mo)	4	0.8	0.2	72.5
Semele sp. (Mo)	4	0.8	0.8	72.5
Onuphis pallidula (An)	4	0.8	0.8	72.5
Sabellaria vulgaris beaufortensis (An)	4	0.8	0.4	72.5
Laonice cirrata (An)	4	0.8	0.4	72.5
Spiophanes bombyx (An)	4	0.8	0.4	72.5
Spio pettiboneae (An)	4	0.8	0.4	72.5
Syllidae (An)	4	0.8	0.8	72.5
Prionospio cristata (An)	4	0.8	0.4	72.5
Leptochela serratorbita (Ar)	3	0.6	0.4	93.5
Synalpheus townsendi (Ar)	3	0.6	0.6	93.5
Pitho lherminieri (Ar)	3	0.6	0.4	93.5
Inachoides forceps (Ar)	3	0.6	0.4	93.5
Accalanthura crenulata (Ar)	3	0.6	0.2	93.5
Caprellidae A (Ar)	3	0.6	0.6	93.5
Amphioplus sp. (Ech)	3	0.6	0.6	93.5
Chione grus (Mo)	3	0.6	0.4	93.5
Tellina americana (Mo)	3	0.6	0.2	93.5
Lucina radians (Mo)	3	0.6	0.4	93.5
Erycina linella (Mo)	3	0.6	0.4	93.5
Sipunculida C (Si)	3	0.6	0.2	93.5
Malacoceros glutaeus (An)	3	0.6	0.4	93.5
Ceratonereis sp. (An)	3	0.6	0.6	93.5
Goniadides carolinae (An)	3	0.6	0.2	93.5
Podarke obscura (An)	3	0.6	0.4	93.5
Pherusa inflata (An)	3	0.6	0.2	93.5
Phyllodoce arenae (An)	3	0.6	0.4	93.5
Petaloproctus socialis (An)	3	0.6	0.6	93.5
Cinachyra alloclada (Po)	2	0.4	0.4	127.0
Neopontonides beaufortensis (Ar)	2	0.4	0.2	127.0
Brachyura (Ar)	2	0.4	0.4	127.0
Hemus cristulipes (Ar)	2	0.4	0.2	127.0
Pinnixa sp. (Ar)	2	0.4	0.2	127.0
Lembos unicornis (Ar)	2	0.4	0.2	127.0
Acanthohaustorius millsi (Ar)	2	0.4	0.4	127.0
Erichsonella filiformis (Ar)	2	0.4	0.2	127.0
Amphithoe sp. A (Ar)	2	0.4	0.4	127.0
Podocerus sp. (Ar)	2	0.4	0.4	127.0
Acanthohaustorius shoemakeri (Ar)	2	0.4	0.4	127.0
Melita appendiculata (Ar)	2	0.4	0.2	127.0
Turbellaria (Pl)	2	0.4	0.2	127.0
Semele nuculoides (Mo)	2	0.4	0.2	127.0
Crepidula aculeata (Mo)	2	0.4	0.4	127.0
Modiolus americanus (Mo)	2	0.4	0.4	127.0
Codakia costata (Mo)	2	0.4	0.4	127.0
Laevicardium pictum (Mo)	2	0.4	0.2	127.0
Laevicardium laevigatum (Mo)	2	0.4	0.4	127.0
Tellina sp. (Mo)	2	0.4	0.4	127.0
Chama congregata (Mo)	2	0.4	0.2	127.0

Appendix 11 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Turbonilla sp. (Mo)	2	0.4	0.4	127.0
Acteon candens (Mo)	2	0.4	0.4	127.0
Lyonsia sp. (Mo)	2	0.4	0.2	127.0
Pitar simpsoni (Mo)	2	0.4	0.4	127.0
Asaphis sp. (Mo)	2	0.4	0.4	127.0
Aspidosiphon misakiensis (Si)	2	0.4	0.2	127.0
Eulalia macroceros (An)	2	0.4	0.4	127.0
Hyboscolex longiseta (An)	2	0.4	0.2	127.0
Phyllodoce fragilis (An)	2	0.4	0.2	127.0
Eunice sp. (An)	2	0.4	0.4	127.0
Naineris sp. (An)	2	0.4	0.4	127.0
Autolytus sp. (An)	2	0.4	0.2	127.0
Phyllodoce sp. (An)	2	0.4	0.4	127.0
Websterinereis sp. A (An)	2	0.4	0.4	127.0
Nereis acuminata (An)	2	0.4	0.2	127.0
Owenia fusiformis (An)	2	0.4	0.2	127.0
Nephtys picta (An)	2	0.4	0.2	127.0
Nereidae (An)	2	0.4	0.4	127.0
Orbiniidae (An)	2	0.4	0.4	127.0
Thelepus setosus (An)	2	0.4	0.4	127.0
Polydora sp. (An)	2	0.4	0.2	127.0
Syllidae B (An)	2	0.4	0.4	127.0
Eulalia sanguinea (An)	2	0.4	0.2	127.0
Hemectyon pearsei (Po)	1	0.2	0.2	202.5
Axinella bookhouti (Po)	1	0.2	0.2	202.5
Sicyonia laevigata (Ar)	1	0.2	0.2	202.5
Processa bermudensis (Ar)	1	0.2	0.2	202.5
Euceramus praelongus (Ar)	1	0.2	0.2	202.5
Osachila tuberosa (Ar)	1	0.2	0.2	202.5
Pilumnus sayi (Ar)	1	0.2	0.2	202.5
Batrachonotus fragosus (Ar)	1	0.2	0.2	202.5
Sicyonia sp. (Ar)	1	0.2	0.2	202.5
Planes sp. (Ar)	1	0.2	0.2	202.5
Thor sp. (Ar)	1	0.2	0.2	202.5
Liljeborgia sp. (Ar)	1	0.2	0.2	202.5
Megaluropus sp. (Ar)	1	0.2	0.2	202.5
Eurydice littoralis (Ar)	1	0.2	0.2	202.5
Apseudes sp. B (Ar)	1	0.2	0.2	202.5
Leptochelia sp. (Ar)	1	0.2	0.2	202.5
Anamixis sp. (Ar)	1	0.2	0.2	202.5
Jaeropsis coralicola (Ar)	1	0.2	0.2	202.5
Stenothoe sp. A (Ar)	1	0.2	0.2	202.5
Stenothoe sp. B (Ar)	1	0.2	0.2	202.5
Diastylidae A (Ar)	1	0.2	0.2	202.5
Citanopsis sp. (Ar)	1	0.2	0.2	202.5
Microdeutopus myersi (Ar)	1	0.2	0.2	202.5
Anchialina typica (Ar)	1	0.2	0.2	202.5
Podoceropsis sp. (Ar)	1	0.2	0.2	202.5
Anthuridae (Ar)	1	0.2	0.2	202.5
Cumacea (Ar)	1	0.2	0.2	202.5
Amphipoda B	1	0.2	0.2	202.5
Nemertinea A	1	0.2	0.2	202.5
Nemertinea E	1	0.2	0.2	202.5
Amphipholis pachybactera (Ech)	1	0.2	0.2	202.5
Ophiuroidea (Ech)	1	0.2	0.2	202.5
Amphiura sp. (Ech)	1	0.2	0.2	202.5
Amphiodia trychna (Ech)	1	0.2	0.2	202.5
Holothuroidea (Ech)	1	0.2	0.2	202.5
Phoronis architecta (Ph)	1	0.2	0.2	202.5
Natica pusilla (Mo)	1	0.2	0.2	202.5
Musculus lateralis (Mo)	1	0.2	0.2	202.5
Arca zebra (Mo)	1	0.2	0.2	202.5

Appendix 11 (Continued)

ISO3
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Arcinella cornuta (Mo)	1	0.2	0.2	202.5
Papyridea soleniformis (Mo)	1	0.2	0.2	202.5
Lima pelucida (Mo)	1	0.2	0.2	202.5
Lyonsia beana (Mo)	1	0.2	0.2	202.5
Pelecypoda (Mo)	1	0.2	0.2	202.5
Pisania tincta (Mo)	1	0.2	0.2	202.5
Chama sp. (Mo)	1	0.2	0.2	202.5
Marginella sp. (Mo)	1	0.2	0.2	202.5
Aeolidiacea (Mo)	1	0.2	0.2	202.5
Triphora sp. (Mo)	1	0.2	0.2	202.5
Tellina sybaritica (Mo)	1	0.2	0.2	202.5
Veneridae (Mo)	1	0.2	0.2	202.5
Amygdalum sagittatum (Mo)	1	0.2	0.2	202.5
Crenella decussata (Mo)	1	0.2	0.2	202.5
Modiolus sp. (Mo)	1	0.2	0.2	202.5
Marginella lavalleeana (Mo)	1	0.2	0.2	202.5
Cyclinella tenuis (Mo)	1	0.2	0.2	202.5
Bushia sp. (Mo)	1	0.2	0.2	202.5
Acteon sp. (Mo)	1	0.2	0.2	202.5
Sipunculida D (Si)	1	0.2	0.2	202.5
Mesochaetopterus sp. (An)	1	0.2	0.2	202.5
Serpulidae F (An)	1	0.2	0.2	202.5
Magelona sp. (An)	1	0.2	0.2	202.5
Sabellaria vulgaris vulgaris (An)	1	0.2	0.2	202.5
Onuphis sp. (An)	1	0.2	0.2	202.5
Phyllochaetopterus socialis (An)	1	0.2	0.2	202.5
Proceraea sp. (An)	1	0.2	0.2	202.5
Hydroides sp. A (An)	1	0.2	0.2	202.5
Hydroides sp. B (An)	1	0.2	0.2	202.5
Pista palmata (An)	1	0.2	0.2	202.5
Eunice filamentosa (An)	1	0.2	0.2	202.5
Potamilla sp. (An)	1	0.2	0.2	202.5
Potamilla sp. B (An)	1	0.2	0.2	202.5
Eusyllis sp. A (An)	1	0.2	0.2	202.5
Hypsicomus phaeotaenia (An)	1	0.2	0.2	202.5
Loimia medusa (An)	1	0.2	0.2	202.5
Notomastus latericeus (An)	1	0.2	0.2	202.5
Pectinaria gouldii (An)	1	0.2	0.2	202.5
Spionidae (An)	1	0.2	0.2	202.5
Paraprionospio pinnata (An)	1	0.2	0.2	202.5
Scolelepis texana (An)	1	0.2	0.2	202.5
Mediomastus californiensis (An)	1	0.2	0.2	202.5
Cirratulidae (An)	1	0.2	0.2	202.5
Proceraea fasciata (An)	1	0.2	0.2	202.5
Syllidae F (An)	1	0.2	0.2	202.5
Syllidae G (An)	1	0.2	0.2	202.5
Ampharete americana (An)	1	0.2	0.2	202.5
Prionospio dayi (An)	1	0.2	0.2	202.5
Terebellidae (An)	1	0.2	0.2	202.5
Phyllodocidae (An)	1	0.2	0.2	202.5
Sabella microphthalma (An)	1	0.2	0.2	202.5
Ceratonereis irritabilis (An)	1	0.2	0.2	202.5
Chrysopetalidae B (An)	1	0.2	0.2	202.5
Pionosyllis sp. A (An)	1	0.2	0.2	202.5
Pionosyllis sp. B (An)	1	0.2	0.2	202.5

Miscellaneous Colonial Invertebrates and Algae
Halichondria bowerbanki (Po)
Anthosigmella varians (Po)
Ciocalapata gibbsi (Po)
Lissodendoryx sigmata (Po)
Hadromerida B (Po)

Appendix 11 (Continued)

Hadromerida C (Po)
Pseudaxinella sp. A (Po)
Molgula occidentalis (Ch)
Styela plicata (Ch)
Clavelina sp. (Ch)
Diplosoma macdonaldi (Ch)
Distaplia bermudensis (Ch)
Trididemnum sp. (Ch)
Thalysias juniperina (Ch)
Higginsia strigilata (Po)
Algae

Appendix 11 (Continued)

MS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Filograna implexa (An)	2121	424.2	409.2	1.0
Syllis spongicola (An)	206	41.2	18.4	2.0
Ophiocnida sp. (Ech)	57	11.4	6.8	3.0
Aspidosiphon spinalis (Si)	32	6.4	2.4	4.0
Ophiophragmus sp. (Ech)	25	5.0	3.2	5.0
Craniellidae B (Po)	23	4.6	2.3	6.0
Nassarius albus (Mo)	19	3.8	0.4	7.0
Ophiostigma sp. (Ech)	17	3.4	3.2	8.0
Nematoda	15	3.0	0.9	10.5
Tellina americana (Mo)	15	3.0	2.1	10.5
Lumbrineris inflata (An)	15	3.0	1.0	10.5
Thelepus setosus (An)	15	3.0	0.3	10.5
Laevicardium pictum (Mo)	14	2.8	1.2	14.5
Nicomache trispinata (An)	14	2.8	0.9	14.5
Eunice vittata (An)	14	2.8	0.5	14.5
Chrysopetalidae A (An)	14	2.8	0.8	14.5
Pagurus carolinensis (Ar)	13	2.6	1.4	18.0
Nemertinea	13	2.6	0.8	18.0
Crassinella lunulata (Mo)	13	2.6	1.4	18.0
Scypha barbadensis (Po)	12	2.4	1.7	20.5
Anchialina typica (Ar)	12	2.4	0.7	20.5
Cumingia coarctata (Mo)	11	2.2	1.6	23.0
Turbonilla sp. (Mo)	11	2.2	1.6	23.0
Syllis hyalina (An)	11	2.2	1.0	23.0
Amphiodia pulchella (Ech)	10	2.0	1.3	25.0
Cinachyra alloclada (Po)	9	1.8	0.5	28.5
Clathrina coriacea (Po)	9	1.8	1.6	28.5
Phyllocarida (Ar)	9	1.8	0.8	28.5
Phyllochaetopterus socialis (An)	9	1.8	1.2	28.5
Eunice filamentosa (An)	9	1.8	1.1	28.5
Polycirrus carolinensis (An)	9	1.8	1.1	28.5
Pagurus sp. (Ar)	8	1.6	0.8	33.0
Strombiformis sp. (Mo)	8	1.6	0.9	33.0
Eulalia sanguinea (An)	8	1.6	0.6	33.0
Leucothoe spinicarpa (Ar)	7	1.4	0.7	37.5
Cumingia tellinoides (Mo)	7	1.4	1.2	37.5
Nassarina minor (Mo)	7	1.4	0.6	37.5
Autolytus sp. (An)	7	1.4	1.2	37.5
Pherusa inflata (An)	7	1.4	0.2	37.5
Lysidice ninetta (An)	7	1.4	0.7	37.5
Alpheus normanni (Ar)	6	1.2	0.8	43.0
Bowmaniella portoricensis (Ar)	6	1.2	0.6	43.0
Turbellaria (Pl)	6	1.2	0.6	43.0
Varicorbula operculata (Mo)	6	1.2	0.8	43.0
Lyonsia sp. (Mo)	6	1.2	0.7	43.0
Ampelisca agassizi (Ar)	5	1.0	0.3	49.5
Anoplodactylus petiolatus (Ar)	5	1.0	0.3	49.5
Ophiothrix angulata (Ech)	5	1.0	1.0	49.5
Amphiodia trychna (Ech)	5	1.0	1.0	49.5
Marginella sp. (Mo)	5	1.0	0.8	49.5
Mitrella sp. (Mo)	5	1.0	0.4	49.5
Marginella lavalleeana (Mo)	5	1.0	0.8	49.5
Owenia fusiformis (An)	5	1.0	0.5	49.5
Megalobrachium soriatum (Ar)	4	0.8	0.4	58.0
Luconacia incerta (Ar)	4	0.8	0.4	58.0
Pteromeris perplana (Mo)	4	0.8	0.6	58.0
Turbonilla interrupta (Mo)	4	0.8	0.8	58.0
Hiatella arctica (Mo)	4	0.8	0.5	58.0
Lima pelucida (Mo)	4	0.8	0.4	58.0

Appendix 11 (Continued)

MS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Lioberus castaneus (Mo)	4	0.8	0.6	58.0
Bailya sp. (Mo)	4	0.8	0.8	58.0
Exogone dispar (An)	4	0.8	0.4	58.0
Ebalia stimpsoni (Ar)	3	0.6	0.6	75.0
Pilumnus floridanus (Ar)	3	0.6	0.4	75.0
Pagurus hendersoni (Ar)	3	0.6	0.2	75.0
Phtisica marina (Ar)	3	0.6	0.2	75.0
Gastrochaena hians (Mo)	3	0.6	0.4	75.0
Modiolus americanus (Mo)	3	0.6	0.4	75.0
Chione grus (Mo)	3	0.6	0.2	75.0
Gouldia cerina (Mo)	3	0.6	0.2	75.0
Persicula sp. (Mo)	3	0.6	0.2	75.0
Crenella decussata (Mo)	3	0.6	0.4	75.0
Erycina linella (Mo)	3	0.6	0.4	75.0
Glycera tesselata (An)	3	0.6	0.2	75.0
Harmothoe sp. A (An)	3	0.6	0.2	75.0
Syllis alternata (An)	3	0.6	0.2	75.0
Phyllodoce sp. (An)	3	0.6	0.4	75.0
Chone americana (An)	3	0.6	0.4	75.0
Ceratonereis mirabilis (An)	3	0.6	0.4	75.0
Eulalia sp. (An)	3	0.6	0.6	75.0
Loimia medusa (An)	3	0.6	0.2	75.0
Spiophanes bombyx (An)	3	0.6	0.2	75.0
Eunicidae (An)	3	0.6	0.6	75.0
Nereidae (An)	3	0.6	0.6	75.0
Scolelepis texana (An)	3	0.6	0.2	75.0
Syllidae B (An)	3	0.6	0.6	75.0
Syllidae H (An)	3	0.6	0.2	75.0
Cinachyra kuekenthali (Po)	2	0.4	0.4	104.5
Synalpheus townsendi (Ar)	2	0.4	0.4	104.5
Latreutes parvulus (Ar)	2	0.4	0.4	104.5
Galathea rostrata (Ar)	2	0.4	0.2	104.5
Microphrys sp. (?) (Ar)	2	0.4	0.4	104.5
Iridopagurus dispar (Ar)	2	0.4	0.4	104.5
Pilumnus sayi (Ar)	2	0.4	0.2	104.5
Thor sp. (Ar)	2	0.4	0.2	104.5
Pinnotheres sp. (Ar)	2	0.4	0.4	104.5
Podocerus sp. (Ar)	2	0.4	0.2	104.5
Leptochelia sp. (Ar)	2	0.4	0.2	104.5
Tanaidacea B (Ar)	2	0.4	0.4	104.5
Melita appendiculata (Ar)	2	0.4	0.4	104.5
Genocidaris maculata (Ech)	2	0.4	0.2	104.5
Semele purpurascens (Mo)	2	0.4	0.4	104.5
Pelecypoda (Mo)	2	0.4	0.2	104.5
Gastropoda (Mo)	2	0.4	0.2	104.5
Chama congregata (Mo)	2	0.4	0.4	104.5
Pleuromeris tridentata (Mo)	2	0.4	0.4	104.5
Tellina sybaritica (Mo)	2	0.4	0.2	104.5
Tivela floridana (Mo)	2	0.4	0.4	104.5
Haminoea succinea (Mo)	2	0.4	0.4	104.5
Sipunculida A	2	0.4	0.4	104.5
Proceraea sp. (An)	2	0.4	0.2	104.5
Marphysa sp. A (An)	2	0.4	0.4	104.5
Websterinereis sp. A (An)	2	0.4	0.2	104.5
Onuphis nebulosa (An)	2	0.4	0.4	104.5
Pseudeurythoe ambigua (An)	2	0.4	0.2	104.5
Laonice cirrata (An)	2	0.4	0.2	104.5
Polycirrus eximius (An)	2	0.4	0.2	104.5
Lumbrineris coccinea (An)	2	0.4	0.4	104.5
Pista quadrilobata (An)	2	0.4	0.2	104.5
Leucetta floridana (Po)	1	0.2	0.2	172.5

Appendix 11 (Continued)

MS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Ircinia ramosa (Po)	1	0.2	0.2	172.5
Leuconia crustacea (Po)	1	0.2	0.2	172.5
Chondrilla nucula (Po)	1	0.2	0.2	172.5
Neopontonides beaufortensis (Ar)	1	0.2	0.2	172.5
Pilumnus sp. (Ar)	1	0.2	0.2	172.5
Batrachonotus fragosus (Ar)	1	0.2	0.2	172.5
Stenorhynchus seticornis (Ar)	1	0.2	0.2	172.5
Pelia mutica (Ar)	1	0.2	0.2	172.5
Mithrax pleuracanthus (Ar)	1	0.2	0.2	172.5
Stenocionops furcata coelata (?) (Ar)	1	0.2	0.2	172.5
Macrocoeloma trispinosum (Ar)	1	0.2	0.2	172.5
Alpheopsis sp. (Ar)	1	0.2	0.2	172.5
Periclimenes sp. (?) (Ar)	1	0.2	0.2	172.5
Penaeidae (Ar)	1	0.2	0.2	172.5
Galatheidae (Ar)	1	0.2	0.2	172.5
Parthenope sp. (?) (Ar)	1	0.2	0.2	172.5
Leptochela papulata (Ar)	1	0.2	0.2	172.5
Acanthohaustorius sp. (Ar)	1	0.2	0.2	172.5
Eurydice littoralis (Ar)	1	0.2	0.2	172.5
Paracerceis caudata (Ar)	1	0.2	0.2	172.5
Jaeropsis coralicola (Ar)	1	0.2	0.2	172.5
Unciola sp. B (Ar)	1	0.2	0.2	172.5
Apanthura magnifica (Ar)	1	0.2	0.2	172.5
Endeis spinosa (Ar)	1	0.2	0.2	172.5
Ophiocnida sp. A (Ech)	1	0.2	0.2	172.5
Ophiomusium sp. (?) (Ech)	1	0.2	0.2	172.5
Amphiura sp. (Ech)	1	0.2	0.2	172.5
Amphiodia sp. (Ech)	1	0.2	0.2	172.5
Amphiuridae (Ech)	1	0.2	0.2	172.5
Glottidia pyramidata (Br)	1	0.2	0.2	172.5
Nudibranchia (Mo)	1	0.2	0.2	172.5
Semele nuculoides (Mo)	1	0.2	0.2	172.5
Crepidula aculeata (Mo)	1	0.2	0.2	172.5
Marginella aureocincta (Mo)	1	0.2	0.2	172.5
Oliva sayana (Mo)	1	0.2	0.2	172.5
Conus floridanus (Mo)	1	0.2	0.2	172.5
Anomia simplex (Mo)	1	0.2	0.2	172.5
Diplodonta punctata (Mo)	1	0.2	0.2	172.5
Anachis hotessieriana (Mo)	1	0.2	0.2	172.5
Papyridea soleniformis (Mo)	1	0.2	0.2	172.5
Epitonium sp. (Mo)	1	0.2	0.2	172.5
Erato maugeriae (Mo)	1	0.2	0.2	172.5
Pectinidae B (Mo)	1	0.2	0.2	172.5
Triphora sp. (Mo)	1	0.2	0.2	172.5
Diplodonta sp. (Mo)	1	0.2	0.2	172.5
Cadulus quadridentatus (Mo)	1	0.2	0.2	172.5
Strombiformis auricinctus (Mo)	1	0.2	0.2	172.5
Opalia pumilio (Mo)	1	0.2	0.2	172.5
Murex recurvirostris rubidus (Mo)	1	0.2	0.2	172.5
Clavinae (Mo)	1	0.2	0.2	172.5
Lyropecten sp. (Mo)	1	0.2	0.2	172.5
Papyridea sp. (Mo)	1	0.2	0.2	172.5
Rissoina multicostata (Mo)	1	0.2	0.2	172.5
Glossodoris sp. (Mo)	1	0.2	0.2	172.5
Melanella sp. (Mo)	1	0.2	0.2	172.5
Cooperella atlantica (Mo)	1	0.2	0.2	172.5
Aspidosiphon misakiensis (Si)	1	0.2	0.2	172.5
Sipunculus nudus (Si)	1	0.2	0.2	172.5
Ampharete acutifrons (An)	1	0.2	0.2	172.5
Vermiliopsis annulata (An)	1	0.2	0.2	172.5
Serpula vermicularis granulosa (An)	1	0.2	0.2	172.5

Appendix 11 (Continued)

MS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Pomatoceros americanus (An)	1	0.2	0.2	172.5
Mesochaetopterus sp. (An)	1	0.2	0.2	172.5
Onuphis pallidula (An)	1	0.2	0.2	172.5
Serpulidae J (An)	1	0.2	0.2	172.5
Sabellaria floridensis (An)	1	0.2	0.2	172.5
Exogone sp. (An)	1	0.2	0.2	172.5
Eunice sp. (An)	1	0.2	0.2	172.5
Ceratonereis versipedata (An)	1	0.2	0.2	172.5
Hydroides sp. A (An)	1	0.2	0.2	172.5
Trypanosyllis zebra (An)	1	0.2	0.2	172.5
Pherusa ehlersi (An)	1	0.2	0.2	172.5
Euphrosine trilobata (An)	1	0.2	0.2	172.5
Brania sp. (An)	1	0.2	0.2	172.5
Goniadides carolinae (An)	1	0.2	0.2	172.5
Glycera sp. A (An)	1	0.2	0.2	172.5
Polycirrus sp. A (An)	1	0.2	0.2	172.5
Aricidea suecica (An)	1	0.2	0.2	172.5
Podarke obscura (An)	1	0.2	0.2	172.5
Syllis cornuta (An)	1	0.2	0.2	172.5
Odontosyllis fulgurans (An)	1	0.2	0.2	172.5
Syllis sp. A (An)	1	0.2	0.2	172.5
Spionidae B (An)	1	0.2	0.2	172.5
Paraprionospio pinnata (An)	1	0.2	0.2	172.5
Oligochaeta (An)	1	0.2	0.2	172.5
Syllidae (An)	1	0.2	0.2	172.5
Syllidae A (An)	1	0.2	0.2	172.5
Ampharete americana (An)	1	0.2	0.2	172.5
Prionospio cristata (An)	1	0.2	0.2	172.5
Notomastus sp. (An)	1	0.2	0.2	172.5
Polynoidae (An)	1	0.2	0.2	172.5
Chrysopetalidae C (An)	1	0.2	0.2	172.5

Miscellaneous Colonial Invertebrates and Algae
Lissodendoryx isodactyalis (Po)
Halichondria bowerbanki (Po)
Polyandrocarpa sp. (Ch)
Tricheurypon sp. A (Po)
Halichondriida F (Po)
Ciocalapata gibbsi (Po)
Tedania ignis (Po)
Myrastria kallitetilla (Po)
Hadromerida C (Po)
Anthosigmella varians (Po)
Hadromerida F (Po)
Algae

Appendix 11 (Continued)

MSO2
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Acanthohaustorius millsi (Ar)	74	14.8	11.8	1.0
Acanthohaustorius sp. (Ar)	72	14.4	10.0	2.0
Turbellaria (Pl)	46	9.2	3.8	3.0
Tellina americana (Mo)	30	6.0	3.0	4.0
Varicorbula operculata (Mo)	16	3.2	1.4	5.0
Amphioplus sp. (Ech)	13	2.6	2.6	6.0
Melitidae A (Ar)	12	2.4	2.4	7.0
Laevicardium pictum (Mo)	10	2.0	1.0	8.5
Pseudeurythoe ambigua (An)	10	2.0	2.0	8.5
Glycera sp. B (An)	9	1.8	1.2	10.5
Syllis spongicola (An)	9	1.8	1.8	10.5
Amphiodia pulchella (Ech)	8	1.6	1.2	12.0
Pagurus sp. (Ar)	7	1.4	0.7	15.0
Thor sp. (Ar)	7	1.4	0.7	15.0
Bowmaniella portoricensis (Ar)	7	1.4	0.4	15.0
Tellina sybaritica (Mo)	7	1.4	1.4	15.0
Harmothoe sp. A (An)	7	1.4	0.9	15.0
Podocerus sp. (Ar)	6	1.2	1.2	18.5
Chone americana (An)	6	1.2	1.0	18.5
Leptochela papulata (Ar)	5	1.0	0.4	23.5
Lembos unicornis (Ar)	5	1.0	0.8	23.5
Diastylidae A (Ar)	5	1.0	0.5	23.5
Melita appendiculata (Ar)	5	1.0	0.8	23.5
Musculus lateralis (Mo)	5	1.0	1.0	23.5
Tellina agilis (Mo)	5	1.0	1.0	23.5
Ceratonereis mirabilis (An)	5	1.0	0.5	23.5
Prionospio cristata (An)	5	1.0	0.8	23.5
Pagurus hendersoni (Ar)	4	0.8	0.6	31.5
Oxyurostylis smithi (Ar)	4	0.8	0.8	31.5
Nemertinea	4	0.8	0.4	31.5
Natica pusilla (Mo)	4	0.8	0.4	31.5
Anadara sp. (Mo)	4	0.8	0.5	31.5
Malacoceros glutaeus (An)	4	0.8	0.4	31.5
Autolytus sp. (An)	4	0.8	0.6	31.5
Nicomache trispinata (An)	4	0.8	0.6	31.5
Cinachyra alloclada (Po)	3	0.6	0.6	41.5
Cinachyra kuekenthali (Po)	3	0.6	0.2	41.5
Pilumnus sp. (Ar)	3	0.6	0.6	41.5
Batrachonotus fragosus (Ar)	3	0.6	0.4	41.5
Luconacia incerta (Ar)	3	0.6	0.4	41.5
Ampelisca sp. A (Ar)	3	0.6	0.6	41.5
Ophiocnida sp. (Ech)	3	0.6	0.6	41.5
Crassinella lunulata (Mo)	3	0.6	0.6	41.5
Lyonsia sp. (Mo)	3	0.6	0.4	41.5
Psammolyce ctenidophora (An)	3	0.6	0.4	41.5
Websterinereis sp. A (An)	3	0.6	0.4	41.5
Paraprionospio pinnata (An)	3	0.6	0.2	41.5
Pilumnus floridanus (Ar)	2	0.4	0.4	63.0
Pelia mutica (Ar)	2	0.4	0.4	63.0
Pagurus carolinensis (Ar)	2	0.4	0.2	63.0
Lysmata rathbunae (Ar)	2	0.4	0.4	63.0
Latreutes sp. (Ar)	2	0.4	0.4	63.0
Podochela sp. (Ar)	2	0.4	0.4	63.0
Ampelisca agassizi (Ar)	2	0.4	0.4	63.0
Leucothoe spinicarpa (Ar)	2	0.4	0.4	63.0
Cumacea (Ar)	2	0.4	0.2	63.0
Anoplodactylus petiolatus (Ar)	2	0.4	0.2	63.0
Ophiomusium sp. (Ech)	2	0.4	0.2	63.0
Ophiophragmus sp. (Ech)	2	0.4	0.4	63.0
Nassarius albus (Mo)	2	0.4	0.4	63.0

Appendix 11 (Continued)

MS02
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Anachis hotessieriana (Mo)	2	0.4	0.2	63.0
Chione latilirata (Mo)	2	0.4	0.4	63.0
Tellina sp. (Mo)	2	0.4	0.2	63.0
Persicula sp. (Mo)	2	0.4	0.4	63.0
Cadulus quadridentatus (Mo)	2	0.4	0.2	63.0
Philine sagra (Mo)	2	0.4	0.4	63.0
Aspidosiphon spinalis (Si)	2	0.4	0.4	63.0
Notopygos crinita (An)	2	0.4	0.2	63.0
Serpulidae (An)	2	0.4	0.4	63.0
Hydroides sp. A (An)	2	0.4	0.2	63.0
Hydroides sp. B (An)	2	0.4	0.4	63.0
Sthenelais boa (An)	2	0.4	0.4	63.0
Loimia medusa (An)	2	0.4	0.4	63.0
Laonice cirrata (An)	2	0.4	0.2	63.0
Phyllodoce longipes (An)	2	0.4	0.2	63.0
Polycirrus carolinensis (An)	2	0.4	0.2	63.0
Spionidae B (An)	2	0.4	0.4	63.0
Craniellidae B (Po)	1	0.2	0.2	113.5
Metapenaeopsis goodei (Ar)	1	0.2	0.2	113.5
Sicyonia typica (Ar)	1	0.2	0.2	113.5
Neopontonides beaufortensis (Ar)	1	0.2	0.2	113.5
Sicyonia sp. (Ar)	1	0.2	0.2	113.5
Periclimenes sp. (Ar)	1	0.2	0.2	113.5
Periclimenes americanus (Ar)	1	0.2	0.2	113.5
Penaeoidea (Ar)	1	0.2	0.2	113.5
Penaeidae (Ar)	1	0.2	0.2	113.5
Pylopagurus holthuisi (Ar)	1	0.2	0.2	113.5
Synalpheus sp. (Ar)	1	0.2	0.2	113.5
Pagurus hendersoni (?) (Ar)	1	0.2	0.2	113.5
Synchelidium americanum (Ar)	1	0.2	0.2	113.5
Ampelisca vadorum (Ar)	1	0.2	0.2	113.5
Phyllocarida (Ar)	1	0.2	0.2	113.5
Lysianopsis alba (Ar)	1	0.2	0.2	113.5
Ampelisca verrilli (Ar)	1	0.2	0.2	113.5
Colomastix sp. (Ar)	1	0.2	0.2	113.5
Tanaidacea B (Ar)	1	0.2	0.2	113.5
Apanthura magnifica (Ar)	1	0.2	0.2	113.5
Amphipoda B (Ar)	1	0.2	0.2	113.5
Phoronis architecta (Ph)	1	0.2	0.2	113.5
Glottidia pyramidata (Br)	1	0.2	0.2	113.5
Acteocina candei (Mo)	1	0.2	0.2	113.5
Anachis avara (Mo)	1	0.2	0.2	113.5
Pteria colymbus (Mo)	1	0.2	0.2	113.5
Laevicardium laevigatum (Mo)	1	0.2	0.2	113.5
Chione grus (Mo)	1	0.2	0.2	113.5
Gouldia cerina (Mo)	1	0.2	0.2	113.5
Lima pelucida (Mo)	1	0.2	0.2	113.5
Pelecypoda (Mo)	1	0.2	0.2	113.5
Chama congregata (Mo)	1	0.2	0.2	113.5
Marginella apicina (Mo)	1	0.2	0.2	113.5
Mitrella sp. A (Mo)	1	0.2	0.2	113.5
Mitrella sp. B (Mo)	1	0.2	0.2	113.5
Nassarina minor (Mo)	1	0.2	0.2	113.5
Macoma sp. (Mo)	1	0.2	0.2	113.5
Veneridae (Mo)	1	0.2	0.2	113.5
Cyclichna sp. (Mo)	1	0.2	0.2	113.5
Siphonodentalium bushi (Mo)	1	0.2	0.2	113.5
Periglypta listeri (Mo)	1	0.2	0.2	113.5
Patellidae (Mo)	1	0.2	0.2	113.5
Aspidosiphon misakiensis (Si)	1	0.2	0.2	113.5
Ampharete acutifrons (An)	1	0.2	0.2	113.5

Appendix 11 (Continued)

MS02
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Glycera papillosa (An)	1	0.2	0.2	113.5
Pomatoceros americanus (An)	1	0.2	0.2	113.5
Sabellaria vulgaris vulgaris (An)	1	0.2	0.2	113.5
Phyllochaetopterus socialis (An)	1	0.2	0.2	113.5
Eunice sp. (An)	1	0.2	0.2	113.5
Megalomma bioculatum (An)	1	0.2	0.2	113.5
Syllis alternata (An)	1	0.2	0.2	113.5
Ceratonereis sp. (An)	1	0.2	0.2	113.5
Eunice filamentosa (An)	1	0.2	0.2	113.5
Malacoceros sp. A (An)	1	0.2	0.2	113.5
Lysidice sp. A (An)	1	0.2	0.2	113.5
Cirratulus sp. (An)	1	0.2	0.2	113.5
Glycera sp. A (An)	1	0.2	0.2	113.5
Owenia fusiformis (An)	1	0.2	0.2	113.5
Exogone dispar (An)	1	0.2	0.2	113.5
Pherusa inflata (An)	1	0.2	0.2	113.5
Armandia maculata (An)	1	0.2	0.2	113.5
Scolelepis texana (An)	1	0.2	0.2	113.5
Aricidea fragilis (An)	1	0.2	0.2	113.5
Maldanidae (An)	1	0.2	0.2	113.5
Terebellidae A (An)	1	0.2	0.2	113.5
Travisia parva (An)				
Miscellaneous Colonial Invertebrates and Algae				
Lissodendoryx sigmata (Po)				
Halichondriida F (Po)				
Poecilosclerida E (Po)				
Cinachyra sp. (Po)				
Algae				

Appendix 11 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Filograna implexa (An)	327	65.4	31.5	1.0
Syllis spongicola (An)	60	12.0	4.7	2.0
Ophiothrix angulata (Ech)	32	6.4	2.4	3.0
Scypha barbadensis (Po)	23	4.6	1.9	4.0
Ampelisca agassizi (Ar)	22	4.4	2.5	5.0
Aspidosiphon spinalis (Si)	16	3.2	1.0	6.0
Pagurus sp. (Ar)	13	2.6	1.1	7.5
Nassarius albus (Mo)	13	2.6	1.9	7.5
Leuconia aspera (Po)	12	2.4	2.4	10.5
Megalobrachium soriatum (Ar)	12	2.4	2.4	10.5
Pagurus carolinensis (Ar)	12	2.4	0.9	10.5
Melita appendiculata (Ar)	12	2.4	0.9	10.5
Amphiodia pulchella (Ech)	11	2.2	1.7	14.0
Ophiostigma sp. (?) (Ech)	11	2.2	2.2	14.0
Lumbrineris inflata (An)	11	2.2	1.3	14.0
Thor sp. (Ar)	9	1.8	1.1	17.5
Pagurus hendersoni (Ar)	9	1.8	1.1	17.5
Ophiostigma sp. (Ech)	9	1.8	1.3	17.5
Websterinereis sp. A (An)	9	1.8	0.9	17.5
Synalpheus townsendi (Ar)	8	1.6	1.2	20.5
Nassarina minor (Mo)	8	1.6	1.6	20.5
Lembos unicornis (Ar)	7	1.4	0.7	23.0
Periglypta listeri (Mo)	7	1.4	1.2	23.0
Sipunculida A (Si)	7	1.4	1.2	23.0
Clathrina coriacea (Po)	6	1.2	0.8	27.5
Lembos smithi (Ar)	6	1.2	0.6	27.5
Arca zebra (Mo)	6	1.2	1.0	27.5
Laonice cirrata (An)	6	1.2	0.8	27.5
Paraprionospio pinnata (An)	6	1.2	1.0	27.5
Lysidice ninetta (An)	6	1.2	0.7	27.5
Thor manningi (Ar)	5	1.0	0.6	34.0
Leptochela papulata (Ar)	5	1.0	0.4	34.0
Phyllocarida (Ar)	5	1.0	0.5	34.0
Nemertinea (Pl)	5	1.0	0.4	34.0
Syllis gracilis (An)	5	1.0	0.6	34.0
Owenia fusiformis (An)	5	1.0	0.4	34.0
Pherusa inflata (An)	5	1.0	0.6	34.0
Palaemonidae (Ar)	4	0.8	0.8	46.0
Tanaidacea B (Ar)	4	0.8	0.4	46.0
Ampelisca sp. A (Ar)	4	0.8	0.8	46.0
Leucothoe spinicarpa (Ar)	4	0.8	0.4	46.0
Elasmopus sp. A (Ar)	4	0.8	0.6	46.0
Turbellaria (Pl)	4	0.8	0.6	46.0
Amphiodia sp. (Ech)	4	0.8	0.8	46.0
Oliva sayana (Mo)	4	0.8	0.4	46.0
Chione grus (Mo)	4	0.8	0.8	46.0
Hiatella arctica (Mo)	4	0.8	0.4	46.0
Triphora sp. (Mo)	4	0.8	0.8	46.0
Harmothoe sp. A (An)	4	0.8	0.4	46.0
Pseudeurythoe ambigua (An)	4	0.8	0.4	46.0
Loimia medusa (An)	4	0.8	0.5	46.0
Eunice vittata (An)	4	0.8	0.5	46.0
Mediomastus californiensis (An)	4	0.8	0.4	46.0
Syllis hyalina (An)	4	0.8	0.4	46.0
Euceramus praelongus (Ar)	3	0.6	0.6	60.5
Pelia mutica (Ar)	3	0.6	0.4	60.5
Luconacia incerta (Ar)	3	0.6	0.4	60.5
Ampithoe sp. A (Ar)	3	0.6	0.6	60.5
Paracerceis caudata (Ar)	3	0.6	0.4	60.5

Appendix 11 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Colomastix sp. B (Ar)	3	0.6	0.6	60.5
Caprella andreae (Ar)	3	0.6	0.4	60.5
Ascorhynchus castelli (Ar)	3	0.6	0.6	60.5
Ophiophragmus sp. (Ech)	3	0.6	0.2	60.5
Trivia maltbiana (Mo)	3	0.6	0.6	60.5
Triphora nigrocincta (Mo)	3	0.6	0.4	60.5
Spionidae B (An)	3	0.6	0.6	60.5
Chondrosia collectrix (Po)	2	0.4	0.2	83.0
Cinachyra alloclada (Po)	2	0.4	0.4	83.0
Aplysina fistularis (Po)	2	0.4	0.4	83.0
Ircinia ramosa (Po)	2	0.4	0.2	83.0
Pseudaxinella sp. A (Po)	2	0.4	0.4	83.0
Neopontonides beaufortensis (?) (Ar)	2	0.4	0.4	83.0
Alpheus normanni (Ar)	2	0.4	0.4	83.0
Pilumnus sp. (?) (Ar)	2	0.4	0.4	83.0
Dromidia antillensis (Ar)	2	0.4	0.2	83.0
Pseudomedaeus agassizii (Ar)	2	0.4	0.4	83.0
Glyptoplax smithii (?) (Ar)	2	0.4	0.4	83.0
Periclimenaeus sp. (Ar)	2	0.4	0.4	83.0
Micropanope sp. (Ar)	2	0.4	0.2	83.0
Erichthonius brasiliensis (Ar)	2	0.4	0.2	83.0
Chevalia sp. (Ar)	2	0.4	0.4	83.0
Amphipholis squamata (Ech)	2	0.4	0.4	83.0
Ophiactis sp. (Ech)	2	0.4	0.4	83.0
Anachis hotessieriana (Mo)	2	0.4	0.4	83.0
Gouldia cerina (Mo)	2	0.4	0.4	83.0
Strombiformis sp. (Mo)	2	0.4	0.4	83.0
Turbonilla sp. (Mo)	2	0.4	0.4	83.0
Cerithium atratum (Mo)	2	0.4	0.4	83.0
Onuphis pallidula (An)	2	0.4	0.2	83.0
Eunice sp. (An)	2	0.4	0.2	83.0
Ceratonereis versipedata (An)	2	0.4	0.4	83.0
Marphysa sp. A (An)	2	0.4	0.2	83.0
Scoloplos rubra (An)	2	0.4	0.4	83.0
Aglaophamus verrilli (An)	2	0.4	0.2	83.0
Notomastus hemipodus (An)	2	0.4	0.4	83.0
Polydora caeca (An)	2	0.4	0.4	83.0
Ascidiacea (Ch)	1	0.2	0.2	149.5
Cliona caribbaea (Po)	1	0.2	0.2	149.5
Cinachyra kuekenthali (Po)	1	0.2	0.2	149.5
Poecilosclerida H (Po)	1	0.2	0.2	149.5
Craniellidae B (Po)	1	0.2	0.2	149.5
Halichondriidae F (Po)	1	0.2	0.2	149.5
Haliclona sp. B (Po)	1	0.2	0.2	149.5
Tedania ignis (Po)	1	0.2	0.2	149.5
Metapenaeopsis goodei (Ar)	1	0.2	0.2	149.5
Sicyonia laevigata (Ar)	1	0.2	0.2	149.5
Goneplacidae (?) (Ar)	1	0.2	0.2	149.5
Periclimenes iridescens (Ar)	1	0.2	0.2	149.5
Trypton distinctus (Ar)	1	0.2	0.2	149.5
Galathea rostrata (Ar)	1	0.2	0.2	149.5
Dromidia antillensis (?) (Ar)	1	0.2	0.2	149.5
Pilumnus dasypodus (Ar)	1	0.2	0.2	149.5
Pilumnus floridanus (Ar)	1	0.2	0.2	149.5
Pitho lherminieri (?) (Ar)	1	0.2	0.2	149.5
Stenocionops furcata coelata (Ar)	1	0.2	0.2	149.5
Macrocoeloma trispinosum (Ar)	1	0.2	0.2	149.5
Sicyonia sp. (Ar)	1	0.2	0.2	149.5
Xanthidae (Ar)	1	0.2	0.2	149.5
Periclimenes sp. (Ar)	1	0.2	0.2	149.5
Synalpheus sp. (Ar)	1	0.2	0.2	149.5
Micropanope sp. (?) (Ar)	1	0.2	0.2	149.5

Appendix 11 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Alpheus sp. (Ar)	1	0.2	0.2	149.5
Apseudes sp. B (Ar)	1	0.2	0.2	149.5
Phtisica marina (Ar)	1	0.2	0.2	149.5
Podocerus sp. (Ar)	1	0.2	0.2	149.5
Accalanthura crenulata (Ar)	1	0.2	0.2	149.5
Melitidae A (Ar)	1	0.2	0.2	149.5
Amphipoda F (Ar)	1	0.2	0.2	149.5
Pycnogonida (Ar)	1	0.2	0.2	149.5
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	149.5
Tanystylidae A (Ar)	1	0.2	0.2	149.5
Amphipholis pachybactera (Ech)	1	0.2	0.2	149.5
Ophiocnida sp. (Ech)	1	0.2	0.2	149.5
Genocidaris maculata (Ech)	1	0.2	0.2	149.5
Hemipholis sp. (Ech)	1	0.2	0.2	149.5
Nudibranchia (Mo)	1	0.2	0.2	149.5
Calliostoma sp. (Mo)	1	0.2	0.2	149.5
Mitrella lunata (Mo)	1	0.2	0.2	149.5
Musculus lateralis (Mo)	1	0.2	0.2	149.5
Heliacus bisulcatus (Mo)	1	0.2	0.2	149.5
Persicula cantenata (Mo)	1	0.2	0.2	149.5
Anomia simplex (Mo)	1	0.2	0.2	149.5
Arcinella cornuta (Mo)	1	0.2	0.2	149.5
Laevicardium pictum (Mo)	1	0.2	0.2	149.5
Petricola lapicida (Mo)	1	0.2	0.2	149.5
Corbula dietziana (Mo)	1	0.2	0.2	149.5
Lima pelucida (Mo)	1	0.2	0.2	149.5
Gastropoda (Mo)	1	0.2	0.2	149.5
Anachis lafresnayi (Mo)	1	0.2	0.2	149.5
Murex florifer dilectus (Mo)	1	0.2	0.2	149.5
Erato maugeriae (Mo)	1	0.2	0.2	149.5
Varicorbula operculata (Mo)	1	0.2	0.2	149.5
Lithophaga sp. (Mo)	1	0.2	0.2	149.5
Anadara sp. (Mo)	1	0.2	0.2	149.5
Crenella decussata (Mo)	1	0.2	0.2	149.5
Crassinella lunulata (Mo)	1	0.2	0.2	149.5
Cuna dalli (Mo)	1	0.2	0.2	149.5
Niso aeglees (Mo)	1	0.2	0.2	149.5
Americardia guppyi (Mo)	1	0.2	0.2	149.5
Nassarina sp. (Mo)	1	0.2	0.2	149.5
Haminoea elegans (Mo)	1	0.2	0.2	149.5
Triphora melanura (Mo)	1	0.2	0.2	149.5
Doris sp. (Mo)	1	0.2	0.2	149.5
Aspidosiphon misakiensis (Si)	1	0.2	0.2	149.5
Sipunculida (Si)	1	0.2	0.2	149.5
Sipunculida B (Si)	1	0.2	0.2	149.5
Echiurida (Ec)	1	0.2	0.2	149.5
Glycera tesselata (An)	1	0.2	0.2	149.5
Mesochaetopterus sp. (An)	1	0.2	0.2	149.5
Serpulidae K (An)	1	0.2	0.2	149.5
Nereis riisei (An)	1	0.2	0.2	149.5
Phyllodoce fragilis (An)	1	0.2	0.2	149.5
Phyllochaetopterus socialis (An)	1	0.2	0.2	149.5
Megalomma bioculatum (An)	1	0.2	0.2	149.5
Proceraea sp. (An)	1	0.2	0.2	149.5
Trypanosyllis zebra (An)	1	0.2	0.2	149.5
Eunice filamentosa (An)	1	0.2	0.2	149.5
Chone americana (An)	1	0.2	0.2	149.5
Lysidice sp. A (An)	1	0.2	0.2	149.5
Sthenelais boa (An)	1	0.2	0.2	149.5
Syllis regulata carolinae (An)	1	0.2	0.2	149.5
Spiophanes bombyx (An)	1	0.2	0.2	149.5

Appendix 11 (Continued)

MS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Websterinereis tridentata (An)	1	0.2	0.2	149.5
Scoloplos sp. B (An)	1	0.2	0.2	149.5
Podarke obscura (An)	1	0.2	0.2	149.5
Poecilochaetus sp. (An)	1	0.2	0.2	149.5
Tharyx sp. (An)	1	0.2	0.2	149.5
Spionidae (An)	1	0.2	0.2	149.5
Spio pettiboneae (An)	1	0.2	0.2	149.5
Subadyte pellucida (An)	1	0.2	0.2	149.5
Syllidae B (An)	1	0.2	0.2	149.5
Eulalia sanguinea (An)	1	0.2	0.2	149.5
Petaloproctus socialis (An)	1	0.2	0.2	149.5

Miscellaneous Colonial Invertebrates and Algae
Halichondria bowerbanki (Po)
Lissodendoryx sigmata (Po)
Lissodendoryx isodictyalis (Po)
Pseudaxinella lunaecharta (Po)
Higginsia strigilata (Po)
Ciocalapata gibbsi (Po)
Algae

Appendix 11 (Continued)

OS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Spiophanes bombyx (An)	400	80.0	30.4	1.0
Photis sp. (Ar)	35	7.0	3.0	2.0
Spiophanes sp. A (An)	27	5.4	2.9	3.0
Trichophoxus floridanus (Ar)	25	5.0	2.4	5.0
Paraprionospio pinnata (An)	25	5.0	2.5	5.0
Spio pettiboneae (An)	25	5.0	2.3	5.0
Owenia fusiformis (An)	21	4.2	2.3	7.0
Onuphis nebulosa (An)	19	3.8	2.4	8.0
Unciola sp. A (Ar)	18	3.6	2.2	9.0
Erichthonius sp. A (Ar)	17	3.4	1.7	10.0
Notomastus americanus (An)	16	3.2	1.5	11.0
Prionospio sp. B (An)	15	3.0	1.6	12.0
Ampelisca vadorum (Ar)	12	2.4	1.9	13.5
Amphiodia pulchella (Ech)	12	2.4	1.5	13.5
Maldanidae (An)	11	[illegible]	1.4	15.0
Laonice cirrata (An)	10	2.0	1.3	16.0
Batrachonotus fragosus (Ar)	8	1.6	0.9	18.5
Nemertinea	8	1.6	1.0	18.5
Hemichordata A (He)	8	1.6	1.4	18.5
Onuphis pallidula (An)	8	1.6	0.8	18.5
Ptilanthura tricarina (Ar)	7	1.4	0.9	22.5
Phyllochaetopterus socialis (An)	7	1.4	0.7	22.5
Sthenelais boa (An)	7	1.4	0.9	22.5
Eunice vittata (An)	7	1.4	0.9	22.5
Amphipoda E (Ar)	6	1.2	0.4	26.0
Tellina sybaritica (Mo)	6	1.2	0.6	26.0
Aglaophamus verrilli (An)	6	1.2	0.7	26.0
Micropanope sp. (Ar)	5	1.0	1.0	29.0
Tellina sp. (Mo)	5	1.0	0.8	29.0
Chone americana (An)	5	1.0	0.8	29.0
Ampharete acutifrons (An)	4	0.8	0.6	32.5
Harmothoe sp. A (An)	4	0.8	0.6	32.5
Phyllodoce longipes (An)	4	0.8	0.6	32.5
Terebellidae C (An)	4	0.8	0.5	32.5
Solenocera atlantidis (Ar)	3	0.6	0.6	43.0
Eurydice littoralis (Ar)	3	0.6	0.4	43.0
Phyllocarida (Ar)	3	0.6	0.6	43.0
Apseudes sp. B (Ar)	3	0.6	0.4	43.0
Nematoda	3	0.6	0.6	43.0
Pelecypoda (Mo)	3	0.6	0.6	43.0
Diplodonta sp. (Mo)	3	0.6	0.4	43.0
Pomatoceros americanus (An)	3	0.6	0.4	43.0
Ampharete sp. A (An)	3	0.6	0.6	43.0
Glycera sp. B (An)	3	0.6	0.4	43.0
Diopatra cuprea (An)	3	0.6	0.4	43.0
Spionidae B (An)	3	0.6	0.2	43.0
Scolelepis texana (An)	3	0.6	0.4	43.0
Caulleriella killariensis (An)	3	0.6	0.4	43.0
Cirratulidae (An)	3	0.6	0.2	43.0
Polydora caeca (An)	3	0.6	0.4	43.0
Travisia parva (An)	3	0.6	0.4	43.0
Iridopagurus dispar (Ar)	2	0.4	0.4	63.0
Nanoplax xanthiformis (Ar)	2	0.4	0.4	63.0
Argissa sp. (Ar)	2	0.4	0.4	63.0
Ampelisca sp. A (Ar)	2	0.4	0.2	63.0
Idunella sp. (Ar)	2	0.4	0.4	63.0
Melitidae B (Ar)	2	0.4	0.2	63.0
Turbellaria (Pl)	2	0.4	0.4	63.0
Phoronis architecta (Ph)	2	0.4	0.4	63.0

Appendix 11 (Continued)

OS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Crassinella martinicensis (Mo)	2	0.4	0.4	63.0
Nucula proxima (Mo)	2	0.4	0.2	63.0
Crassinella lunulata (Mo)	2	0.4	0.4	63.0
Mesochaetopterus sp. (An)	2	0.4	0.2	63.0
Ceratonereis mirabilis (An)	2	0.4	0.4	63.0
Tharyx marioni (An)	2	0.4	0.2	63.0
Nephtys incisa (An)	2	0.4	0.4	63.0
Glyceridae (An)	2	0.4	0.2	63.0
Syllis cornuta (An)	2	0.4	0.2	63.0
Mediomastus californiensis (An)	2	0.4	0.4	63.0
Eulalia sanguinea (An)	2	0.4	0.2	63.0
Prionospio cristata (An)	2	0.4	0.2	63.0
Terebellidae (An)	2	0.4	0.2	63.0
Terebellidae D (An)	2	0.4	0.2	63.0
Lumbrinerides acuta (An)	2	0.4	0.4	63.0
Xytopsues griseus (Po)	1	0.2	0.2	111.5
Sigmadocia caerula (Po)	1	0.2	0.2	111.5
Axiidae (?) (Ar)	1	0.2	0.2	111.5
Synalpheus townsendi (Ar)	1	0.2	0.2	111.5
Processa bermudensis (Ar)	1	0.2	0.2	111.5
Galathea rostrata (?) (Ar)	1	0.2	0.2	111.5
Ranilia muricata (?) (Ar)	1	0.2	0.2	111.5
Podochela gracilipes (Ar)	1	0.2	0.2	111.5
Glyptoplax smithii (Ar)	1	0.2	0.2	111.5
Sicyonia sp. (Ar)	1	0.2	0.2	111.5
Pagurus sp. (Ar)	1	0.2	0.2	111.5
Pagurus piercei (Ar)	1	0.2	0.2	111.5
Solenocera sp. (Ar)	1	0.2	0.2	111.5
Solenoceridae (?) (Ar)	1	0.2	0.2	111.5
Micropanope sp. (?) (Ar)	1	0.2	0.2	111.5
Hippolyte sp. (Ar)	1	0.2	0.2	111.5
Synchelidium americanum (Ar)	1	0.2	0.2	111.5
Lembos unicornis (Ar)	1	0.2	0.2	111.5
Acanthohaustorius millsi (Ar)	1	0.2	0.2	111.5
Phtisica marina (Ar)	1	0.2	0.2	111.5
Astacilla lauffi (Ar)	1	0.2	0.2	111.5
Mysidopsis furca (Ar)	1	0.2	0.2	111.5
Unciola sp. B (Ar)	1	0.2	0.2	111.5
Elasmopus sp. D (Ar)	1	0.2	0.2	111.5
Oedicerotidae A (Ar)	1	0.2	0.2	111.5
Nemertinea C	1	0.2	0.2	111.5
Nemertinea D	1	0.2	0.2	111.5
Astropecten articulatus (Ech)	1	0.2	0.2	111.5
Ophiothrix angulata (Ech)	1	0.2	0.2	111.5
Ophiuroidea (Ech)	1	0.2	0.2	111.5
Ophiocnida sp. (Ech)	1	0.2	0.2	111.5
Amphiodia trychna (Ech)	1	0.2	0.2	111.5
Echinoidea (Ech)	1	0.2	0.2	111.5
Holothuroidea (Ech)	1	0.2	0.2	111.5
Glottidia pyramidata (Br)	1	0.2	0.2	111.5
Natica pusilla (Mo)	1	0.2	0.2	111.5
Epitonium krebsii (Mo)	1	0.2	0.2	111.5
Oliva sayana (Mo)	1	0.2	0.2	111.5
Haminoea solitaria (Mo)	1	0.2	0.2	111.5
Gouldia cerina (Mo)	1	0.2	0.2	111.5
Strombiformis sp. (Mo)	1	0.2	0.2	111.5
Trochidae (Mo)	1	0.2	0.2	111.5
Tellina americana (Mo)	1	0.2	0.2	111.5
Pyrunculus caelatus (Mo)	1	0.2	0.2	111.5
Cavolinia sp. (Mo)	1	0.2	0.2	111.5
Amygdalum sagittatum (Mo)	1	0.2	0.2	111.5

Appendix 11 (Continued)

OS01
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Aspidosiphon misakiensis (Si)	1	0.2	0.2	111.5
Sipunculida C	1	0.2	0.2	111.5
Polychaeta (An)	1	0.2	0.2	111.5
Glycera tesselata (An)	1	0.2	0.2	111.5
Microspio pigmentata (An)	1	0.2	0.2	111.5
Psammolyce ctenidophora (An)	1	0.2	0.2	111.5
Terebellides stroemi (An)	1	0.2	0.2	111.5
Magelona sp. B (An)	1	0.2	0.2	111.5
Chaetozone setosa (An)	1	0.2	0.2	111.5
Megalomma bioculatum (An)	1	0.2	0.2	111.5
Hydroides sp. A (An)	1	0.2	0.2	111.5
Hydroides sp. C (An)	1	0.2	0.2	111.5
Phyllodoce sp. (An)	1	0.2	0.2	111.5
Phyllodoce sp. C (An)	1	0.2	0.2	111.5
Nereis acuminata (An)	1	0.2	0.2	111.5
Glycera capitata (An)	1	0.2	0.2	111.5
Cirrophorus branchiatus (An)	1	0.2	0.2	111.5
Notomastus hemipodus (An)	1	0.2	0.2	111.5
Nephtys squamosa (An)	1	0.2	0.2	111.5
Lumbrineris coccinea (An)	1	0.2	0.2	111.5
Goniada maculata (An)	1	0.2	0.2	111.5
Polycirrus carolinensis (An)	1	0.2	0.2	111.5
Spionidae (An)	1	0.2	0.2	111.5
Paraonidae A (An)	1	0.2	0.2	111.5
Ampharetidae (An)	1	0.2	0.2	111.5
Ampharetidae A (An)	1	0.2	0.2	111.5
Sabellidae (An)	1	0.2	0.2	111.5
Sabella microphthalma (An)	1	0.2	0.2	111.5

Miscellaneous Colonial Invertebrates
Eudistoma sp. (Ch)
Halichondriida F (Po)

Appendix 11 (Continued)

OS02
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Spiophanes bombyx (An)	163	32.6	8.9	1.0
Terebellidae (An)	108	21.6	21.6	2.0
Pista palmata (An)	87	17.4	12.3	3.0
Syllis spongicola (An)	60	12.0	12.0	4.0
Chone americana (An)	30	6.0	1.9	5.0
Onuphis nebulosa (An)	28	5.6	2.3	6.0
Ampelisca vadorum (Ar)	27	5.4	1.7	7.0
Amphipoda G (Ar)	25	5.0	3.2	8.0
Spio pettiboneae (An)	22	4.4	2.1	9.0
Photis sp. (Ar)	20	4.0	2.8	10.0
Ampelisca sp. B (Ar)	16	3.2	1.4	11.5
Harmothoe sp. A (An)	16	3.2	1.5	11.5
Munida irrasa (Ar)	15	3.0	2.5	13.0
Unciola laminosa (Ar)	13	2.6	2.1	14.0
Alpheus normanni (Ar)	12	2.4	1.3	15.5
Goniadides carolinae (An)	12	2.4	1.3	15.5
Ampharete acutifrons (An)	11	2.2	0.6	17.5
Onuphis pallidula (An)	11	2.2	0.8	17.5
Eurydice piperata (Ar)	10	2.0	1.0	20.0
Prionospio sp. B (An)	10	2.0	1.3	20.0
Protodorvillea kefersteini (An)	10	2.0	1.5	20.0
Ceratonereis mirabilis (An)	9	1.8	0.7	23.0
Glycera capitata (An)	9	1.8	0.7	23.0
Phyllodoce longipes (An)	9	1.8	1.2	23.0
Nemertinea	8	1.6	0.6	26.0
Glycera sp. B (An)	8	1.6	0.7	26.0
Oligochaeta (An)	8	1.6	0.7	26.0
Branchiostoma caribaeum (Ch)	7	1.4	0.7	31.0
Erichthonius sp. A (Ar)	7	1.4	0.7	31.0
Melita appendiculata (Ar)	7	1.4	1.2	31.0
Amphipoda (Ar)	7	1.4	1.2	31.0
Amphipoda E (Ar)	7	1.4	0.9	31.0
Amphiodia pulchella (Ech)	7	1.4	1.0	31.0
Pomatoceros americanus (An)	7	1.4	0.7	31.0
Automate evermanni (Ar)	6	1.2	0.8	36.0
Pagurus sp. (Ar)	6	1.2	0.7	36.0
Unciola sp. A (Ar)	6	1.2	0.7	36.0
Glyptoplax smithii (Ar)	5	1.0	0.6	42.0
Leptochela papulata (Ar)	5	1.0	0.5	42.0
Pagurus hendersoni (Ar)	5	1.0	0.4	42.0
Micropanope sp. (Ar)	5	1.0	0.8	42.0
Trichophoxus floridanus (Ar)	5	1.0	0.8	42.0
Accalanthura crenulata (Ar)	5	1.0	0.3	42.0
Phoronopsis sp. (Ph)	5	1.0	1.0	42.0
Chaetozone setosa (An)	5	1.0	0.4	42.0
Poecilochaetus sp. (An)	5	1.0	0.3	42.0
Micropanope sp. (?) (Ar)	4	0.8	0.8	48.5
Acanthohaustorius millsi (Ar)	4	0.8	0.8	48.5
Nematoda	4	0.8	0.8	48.5
Glycera tesselata (An)	4	0.8	0.8	48.5
Parthenope fraterculus (?) (Ar)	3	0.6	0.6	60.0
Lembos smithi (Ar)	3	0.6	0.6	60.0
Unciola sp. B (Ar)	3	0.6	0.4	60.0
Acanthohaustorius shoemakeri (Ar)	3	0.6	0.4	60.0
Genocidaris maculata (Ech)	3	0.6	0.4	60.0
Lanice sp. (An)	3	0.6	0.6	60.0
Sthenelais boa (An)	3	0.6	0.2	60.0
Nephtys squamosa (An)	3	0.6	0.4	60.0
Syllis regulata carolinae (An)	3	0.6	0.4	60.0

Appendix 11 (Continued)

OS02
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Scoloplos sp. A (An)	3	0.6	0.6	60.0
Podarke obscura (An)	3	0.6	0.4	60.0
Syllis cornuta (An)	3	0.6	0.4	60.0
Goniada maculata (An)	3	0.6	0.6	60.0
Hesionidae A (An)	3	0.6	0.6	60.0
Caulleriella killariensis (An)	3	0.6	0.6	60.0
Polydora caeca (An)	3	0.6	0.4	60.0
Prionospio cristata (An)	3	0.6	0.4	60.0
Terebellidae C (An)	3	0.6	0.4	60.0
Schistomeringos rudolphi (An)	3	0.6	0.4	60.0
Synalpheus townsendi (Ar)	2	0.4	0.2	84.5
Clythrocerus nitidus (Ar)	2	0.4	0.2	84.5
Parthenope sp. (Ar)	2	0.4	0.4	84.5
Lembos unicornis (Ar)	2	0.4	0.4	84.5
Stenopleustes sp. A (Ar)	2	0.4	0.4	84.5
Mysidacea (Ar)	2	0.4	0.4	84.5
Semele bellastriata (Mo)	2	0.4	0.4	84.5
Tellina agilis (Mo)	2	0.4	0.4	84.5
Tellina sp. (Mo)	2	0.4	0.4	84.5
Murex florifer dilectus (Mo)	2	0.4	0.4	84.5
Tellina americana (Mo)	2	0.4	0.4	84.5
Crassinella lunulata (Mo)	2	0.4	0.4	84.5
Magelona sp. B (An)	2	0.4	0.2	84.5
Malacoceros glutaeus (An)	2	0.4	0.4	84.5
Hydroides sp. A (An)	2	0.4	0.2	84.5
Phyllodoce sp. (An)	2	0.4	0.2	84.5
Phyllodoce sp. D (An)	2	0.4	0.4	84.5
Prionospio sp. (An)	2	0.4	0.4	84.5
Websterinereis sp. A (An)	2	0.4	0.2	84.5
Sigalion sp. A (An)	2	0.4	0.4	84.5
Paranaitis sp. (An)	2	0.4	0.4	84.5
Nephtys incisa (An)	2	0.4	0.2	84.5
Phyllodoce castanea (An)	2	0.4	0.4	84.5
Owenia fusiformis (An)	2	0.4	0.4	84.5
Syllis sp. D (An)	2	0.4	0.2	84.5
Eunice vittata (An)	2	0.4	0.2	84.5
Armandia maculata (An)	2	0.4	0.2	84.5
Ampharete americana (An)	2	0.4	0.4	84.5
Eulalia sanguinea (An)	2	0.4	0.2	84.5
Chrysopetalidae A (An)	2	0.4	0.2	84.5
Sicyonia brevirostris (Ar)	1	0.2	0.2	128.5
Ranilia sp. (?) (Ar)	1	0.2	0.2	128.5
Alpheus formosus (?) (Ar)	1	0.2	0.2	128.5
Goneplacidae (?) (Ar)	1	0.2	0.2	128.5
Scyllarus chacei (Ar)	1	0.2	0.2	128.5
Iridopagurus dispar (Ar)	1	0.2	0.2	128.5
Ranilia muricata (Ar)	1	0.2	0.2	128.5
Hypoconcha arcuata (Ar)	1	0.2	0.2	128.5
Portunus sp. (Ar)	1	0.2	0.2	128.5
Pagurus carolinensis (Ar)	1	0.2	0.2	128.5
Thor sp. (Ar)	1	0.2	0.2	128.5
Thor manningi (Ar)	1	0.2	0.2	128.5
Pinnixa sp. (Ar)	1	0.2	0.2	128.5
Liljeborgia sp. (Ar)	1	0.2	0.2	128.5
Ampelisca agassizi (Ar)	1	0.2	0.2	128.5
Phtisica marina (Ar)	1	0.2	0.2	128.5
Podocerus sp. (Ar)	1	0.2	0.2	128.5
Mysidopsis furca (Ar)	1	0.2	0.2	128.5
Elasmopus sp. D (Ar)	1	0.2	0.2	128.5
Anchialina typica (Ar)	1	0.2	0.2	128.5
Tryphosella sp. (Ar)	1	0.2	0.2	128.5
Cumacea B (Ar)	1	0.2	0.2	128.5

Appendix 11 (Continued)

OS02
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	128.5
Turbellaria (Pl)	1	0.2	0.2	128.5
Spatangoidea (Ech)	1	0.2	0.2	128.5
Amphiodia sp. (Ech)	1	0.2	0.2	128.5
Nassarius albus (Mo)	1	0.2	0.2	128.5
Chaetopleura apiculata (Mo)	1	0.2	0.2	128.5
Mangelia rugirima (Mo)	1	0.2	0.2	128.5
Laevicardium pictum (Mo)	1	0.2	0.2	128.5
Gouldia cerina (Mo)	1	0.2	0.2	128.5
Seila adamsi (Mo)	1	0.2	0.2	128.5
Conus delessertii (Mo)	1	0.2	0.2	128.5
Marginella virginiana (Mo)	1	0.2	0.2	128.5
Glycymeris sp. (Mo)	1	0.2	0.2	128.5
Hyalopecten sp. (Mo)	1	0.2	0.2	128.5
Sipunculida C	1	0.2	0.2	128.5
Polychaeta (An)	1	0.2	0.2	128.5
Pisione remota (An)	1	0.2	0.2	128.5
Syllis gracilis (An)	1	0.2	0.2	128.5
Mesochaetopterus sp. (An)	1	0.2	0.2	128.5
Notomastus americanus (An)	1	0.2	0.2	128.5
Megalomma bioculatum (An)	1	0.2	0.2	128.5
Ceratonereis sp. (An)	1	0.2	0.2	128.5
Naineris sp. (An)	1	0.2	0.2	128.5
Autolytus sp. (An)	1	0.2	0.2	128.5
Parapionosyllis longicirrata (An)	1	0.2	0.2	128.5
Glycera sp. A (An)	1	0.2	0.2	128.5
Lumbrineris latreilli (An)	1	0.2	0.2	128.5
Laonice cirrata (An)	1	0.2	0.2	128.5
Synelmis albini (An)	1	0.2	0.2	128.5
Eusyllis lamelligera (An)	1	0.2	0.2	128.5
Polycirrus carolinensis (An)	1	0.2	0.2	128.5
Sabellidae (An)	1	0.2	0.2	128.5
Nereis sp. (An)	1	0.2	0.2	128.5
Travisia parva (An)	1	0.2	0.2	128.5
Lumbrinerides acuta (An)	1	0.2	0.2	128.5
Aonides mayaguezensis (An)	1	0.2	0.2	128.5

Miscellaneous Colonial Invertebrates
Leuconia aspera (Po)
Ascidiacea (Ch)
Tedania sp. A (Po)

Appendix 11 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Filograna implexa (An)	3664	732.8	697.3	1.0
Phyllochaetopterus socialis (An)	2208	441.6	441.6	2.0
Erichthonius sp. A (Ar)	440	88.0	74.5	3.0
Chevalia sp. (Ar)	239	47.8	47.0	4.0
Protomedia sp. (Ar)	212	42.4	42.4	5.0
Amphipoda (Ar)	185	37.0	24.6	6.0
Melita appendiculata (Ar)	147	29.4	23.6	7.0
Sabellidae B (An)	120	24.0	22.5	8.0
Amphipoda E (Ar)	70	14.0	8.6	9.0
Unciola laminosa (Ar)	66	13.2	6.9	10.0
Gammaropsis sp. (Ar)	47	9.4	6.8	11.0
Stenopleustes sp. A (Ar)	26	5.2	3.9	12.0
Ampelisca vadorum (Ar)	24	4.8	3.5	13.0
Amphipoda G (Ar)	21	4.2	4.2	14.0
Maera sp. B (Ar)	20	4.[illegible]	3.3	15.0
Melitidae A (Ar)	16	3.[illegible]	1.6	16.5
Chone americana (An)	16	3.2	1.9	16.5
Luconacia incerta (Ar)	15	3.0	2.1	19.5
Protomedia sp. A (Ar)	15	3.0	2.3	19.5
Melphidippidae A (Ar)	15	3.0	2.3	19.5
Lanice sp. (An)	15	3.0	2.5	19.5
Ampelisca sp. B (Ar)	14	2.8	2.3	23.0
Syllis sp. D (An)	14	2.8	1.6	23.0
Eulalia sanguinea (An)	14	2.8	2.1	23.0
Lembos unicornis (Ar)	13	2.6	1.9	25.0
Crassinella lunulata (Mo)	12	2.4	1.4	26.0
Podocerus sp. (Ar)	11	2.2	1.5	28.0
Harmothoe sp. A (An)	11	2.2	1.5	28.0
Polydora caeca (An)	11	2.2	1.0	28.0
Phyllodoce longipes (An)	10	2.0	0.8	30.5
Prionospio cristata (An)	10	2.0	0.9	30.5
Alpheus normanni (Ar)	9	1.8	1.8	33.5
Glyptoplax smithii (?) (Ar)	9	1.8	1.8	33.5
Jaeropsis coralicola (Ar)	9	1.8	1.8	33.5
Spiophanes bombyx (An)	9	1.8	1.3	33.5
Paguristes sp. (Ar)	8	1.6	0.9	37.0
Glycera tesselata (An)	8	1.6	0.9	37.0
Glycera sp. B (An)	8	1.6	1.4	37.0
Carpias bermudensis (Ar)	7	1.4	1.0	43.5
Genocidaris maculata (Ech)	7	1.4	0.7	43.5
Pomatoceros americanus (An)	7	1.4	1.4	43.5
Sphaerosyllis pirifera (An)	7	1.4	0.4	43.5
Magelona sp. B (An)	7	1.4	1.2	43.5
Notomastus americanus (An)	7	1.4	1.4	43.5
Goniadides carolinae (An)	7	1.4	0.9	43.5
Glycera capitata (An)	7	1.4	1.2	43.5
Laonice cirrata (An)	7	1.4	0.9	43.5
Caulleriella killariensis (An)	7	1.4	1.0	43.5
Munida irrasa (Ar)	6	1.2	1.2	54.0
Pagurus carolinensis (Ar)	6	1.2	0.8	54.0
Accalanthura crenulata (Ar)	6	1.2	0.6	54.0
Elasmopus sp. C (Ar)	6	1.2	0.8	54.0
Nemertinea	6	1.2	0.8	54.0
Nassarina minor (Mo)	6	1.2	1.2	54.0
Onuphis pallidula (An)	6	1.2	0.7	54.0
Megalomma bioculatum (An)	6	1.2	0.8	54.0
Sthenelais boa (An)	6	1.2	0.7	54.0
Owenia fusiformis (An)	6	1.2	0.7	54.0
Syllis spongicola (An)	6	1.2	0.7	54.0
Apseudes sp. B (Ar)	5	1.0	1.0	63.0

Appendix 11 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Phtisica marina (Ar)	5	1.0	0.8	63.0
Tanaidacea B (Ar)	5	1.0	0.8	63.0
Holothuroidea (Ech)	5	1.0	0.5	63.0
Pectinidae (Mo)	5	1.0	0.5	63.0
Ampharete acutifrons (An)	5	1.0	0.6	63.0
Websterinereis sp. B (An)	5	1.0	0.6	63.0
Branchiostoma caribaeum (Ch)	4	0.8	0.8	75.5
Clythrocerus perpusillus (Ar)	4	0.8	0.6	75.5
Iridopagurus dispar (Ar)	4	0.8	0.6	75.5
Thor sp. (Ar)	4	0.8	0.5	75.5
Erichthonius brasiliensis (Ar)	4	0.8	0.6	75.5
Callipallene sp. (Ar)	4	0.8	0.8	75.5
Turbellaria (Pl)	4	0.8	0.4	75.5
Nemertinea A	4	0.8	0.8	75.5
Barleeia sp. (Mo)	4	0.8	0.6	75.5
Erycina linella (Mo)	4	0.8	0.6	75.5
Sipunculida B	4	0.8	0.6	75.5
Pseudeurythoe ambigua (An)	4	0.8	0.8	75.5
Eunice vittata (An)	4	0.8	0.4	75.5
Oligochaeta (An)	4	0.8	0.6	75.5
Subadyte pellucida (An)	4	0.8	0.5	75.5
Terebellidae C (An)	4	0.8	0.5	75.5
Phyllodocidae (An)	4	0.8	0.6	75.5
Notomastus sp. (An)	4	0.8	0.6	75.5
Galathea rostrata (Ar)	3	0.6	0.4	100.0
Micropanope sculptipes (Ar)	3	0.6	0.6	100.0
Metoporhaphis calcarata (Ar)	3	0.6	0.4	100.0
Pagurus sp. (Ar)	3	0.6	0.2	100.0
Munida sp. (Ar)	3	0.6	0.6	100.0
Liljeborgia sp. (Ar)	3	0.6	0.6	100.0
Phyllocarida (Ar)	3	0.6	0.2	100.0
Photis sp. (Ar)	3	0.6	0.4	100.0
Leptochelia sp. (Ar)	3	0.6	0.2	100.0
Paranthura sp. (Ar)	3	0.6	0.6	100.0
Caprellidae A (Ar)	3	0.6	0.4	100.0
Eucidaris tribuloides (Ech)	3	0.6	0.4	100.0
Chaetopleura apiculata (Mo)	3	0.6	0.6	100.0
Chione grus (Mo)	3	0.6	0.2	100.0
Gouldia cerina (Mo)	3	0.6	0.6	100.0
Anadara sp. (Mo)	3	0.6	0.6	100.0
Aspidosiphon spinalis (Si)	3	0.6	0.6	100.0
Sipunculida A	3	0.6	0.6	100.0
Psammolyce ctenidophora (An)	3	0.6	0.2	100.0
Syllis alternata (An)	3	0.6	0.4	100.0
Websterinereis sp. A (An)	3	0.6	0.4	100.0
Protodorvillea kefersteini (An)	3	0.6	0.4	100.0
Paranaitis sp. A (An)	3	0.6	0.4	100.0
Notomastus hemipodus (An)	3	0.6	0.6	100.0
Syllis cornuta (An)	3	0.6	0.4	100.0
Armandia maculata (An)	3	0.6	0.4	100.0
Hesionidae A (An)	3	0.6	0.4	100.0
Syllidae (An)	3	0.6	0.6	100.0
Syllidae D (An)	3	0.6	0.4	100.0
Chrysopetalidae A (An)	3	0.6	0.4	100.0
Syllis hyalina (An)	3	0.6	0.4	100.0
Leptochela papulata (Ar)	2	0.4	0.4	132.0
Pagurus hendersoni (Ar)	2	0.4	0.2	132.0
Ostracoda (Ar)	2	0.4	0.2	132.0
Leucothoe spinicarpa (Ar)	2	0.4	0.2	132.0
Unciola sp. B (Ar)	2	0.4	0.4	132.0
Diastylidae B (Ar)	2	0.4	0.4	132.0

Appendix 11 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Amphithoidae A (Ar)	2	0.4	0.4	132.0
Cumacea A (Ar)	2	0.4	0.4	132.0
Melitidae (Ar)	2	0.4	0.4	132.0
Amphipoda B (Ar)	2	0.4	0.2	132.0
Tanystylidae A (Ar)	2	0.4	0.4	132.0
Nymphon floridanum (Ar)	2	0.4	0.2	132.0
Ophiuroidea (Ech)	2	0.4	0.2	132.0
Nematoda	2	0.4	0.4	132.0
Nassarius albus (Mo)	2	0.4	0.2	132.0
Semele purpurascens (Mo)	2	0.4	0.4	132.0
Pelecypoda (Mo)	2	0.4	0.2	132.0
Gastropoda (Mo)	2	0.4	0.2	132.0
Crenella decussata (Mo)	2	0.4	0.4	132.0
Eunice antennata (An)	2	0.4	0.4	132.0
Syllis gracilis (An)	2	0.4	0.2	132.0
Chaetozone setosa (An)	2	0.4	0.2	132.0
Hydroides sp. D (An)	2	0.4	0.4	132.0
Autolytus sp. (An)	2	0.4	0.2	132.0
Phyllodoce sp. (An)	2	0.4	0.2	132.0
Loimia medusa (An)	2	0.4	0.2	132.0
Synelmis albini (An)	2	0.4	0.4	132.0
Websterinereis tridentata (An)	2	0.4	0.4	132.0
Polycirrus carolinensis (An)	2	0.4	0.2	132.0
Spionidae B (An)	2	0.4	0.4	132.0
Ampharetidae (An)	2	0.4	0.4	132.0
Schistomeringos rudolphi (An)	2	0.4	0.4	132.0
Prionospio cirrifera (An)	2	0.4	0.4	132.0
Clathrina coriacea (Po)	1	0.2	0.2	195.5
Paguristes hernancortezi (?) (Ar)	1	0.2	0.2	195.5
Paguristes spinipes (?) (Ar)	1	0.2	0.2	195.5
Pylopagurus corallinus (Ar)	1	0.2	0.2	195.5
Hypoconcha arcuata (Ar)	1	0.2	0.2	195.5
Osachila tuberosa (Ar)	1	0.2	0.2	195.5
Micropanope nuttingi (Ar)	1	0.2	0.2	195.5
Nanoplax xanthiformis (Ar)	1	0.2	0.2	195.5
Batrachonotus fragosus (Ar)	1	0.2	0.2	195.5
Stenocionops furcata coelata (Ar)	1	0.2	0.2	195.5
Hippolytidae (Ar)	1	0.2	0.2	195.5
Synalpheus mcclendoni (?) (Ar)	1	0.2	0.2	195.5
Automate sp. (Ar)	1	0.2	0.2	195.5
Munida pusilla (Ar)	1	0.2	0.2	195.5
Parthenope sp. (?) (Ar)	1	0.2	0.2	195.5
Processa sp. (Ar)	1	0.2	0.2	195.5
Palaemonidae (Ar)	1	0.2	0.2	195.5
Ebalia sp. (?) (Ar)	1	0.2	0.2	195.5
Parametopella cypris (Ar)	1	0.2	0.2	195.5
Gitanopsis sp. (Ar)	1	0.2	0.2	195.5
Maera sp. A (Ar)	1	0.2	0.2	195.5
Elasmopus sp. D (Ar)	1	0.2	0.2	195.5
Tryphosella sp. (Ar)	1	0.2	0.2	195.5
Proboloides sp. (Ar)	1	0.2	0.2	195.5
Paraselloidea A (Ar)	1	0.2	0.2	195.5
Cumacea (Ar)	1	0.2	0.2	195.5
Anoplodactylus petiolatus (Ar)	1	0.2	0.2	195.5
Eurycyde clitellaria (Ar)	1	0.2	0.2	195.5
Anoplodactylus insigniformis (Ar)	1	0.2	0.2	195.5
Nemertinea B	1	0.2	0.2	195.5
Ophiothrix angulata (Ech)	1	0.2	0.2	195.5
Amphiodia pulchella (Ech)	1	0.2	0.2	195.5
Ophiocnida sp. (Ech)	1	0.2	0.2	195.5
Arbaciidae (Ech)	1	0.2	0.2	195.5

Appendix 11 (Continued)

OS03
Number of Samples = 5

Species	Total Number	Number/0.10m^2 $\bar{x}$	SE	Rank by Number
Phoronopsis sp. (Ph)	1	0.2	0.2	195.5
Glottidia pyramidata (Br)	1	0.2	0.2	195.5
Polyplacophora (Mo)	1	0.2	0.2	195.5
Glycymeris pectinata (Mo)	1	0.2	0.2	195.5
Musculus lateralis (Mo)	1	0.2	0.2	195.5
Vexillum sp. (Mo)	1	0.2	0.2	195.5
Chione intapurpurea (Mo)	1	0.2	0.2	195.5
Callista eucymata (Mo)	1	0.2	0.2	195.5
Varicorbula operculata (Mo)	1	0.2	0.2	195.5
Triphora sp. (Mo)	1	0.2	0.2	195.5
Mitrella sp. (Mo)	1	0.2	0.2	195.5
Tellina sybaritica (Mo)	1	0.2	0.2	195.5
Semele sp. (Mo)	1	0.2	0.2	195.5
Tellinidae (Mo)	1	0.2	0.2	195.5
Corbula chittyana (Mo)	1	0.2	0.2	195.5
Pitar sp. (Mo)	1	0.2	0.2	195.5
Strombiformis auricinctus (Mo)	1	0.2	0.2	195.5
Haminoea succinea (Mo)	1	0.2	0.2	195.5
Sipunculida	1	0.2	0.2	195.5
Sipunculus nudus (Si)	1	0.2	0.2	195.5
Polychaeta (An)	1	0.2	0.2	195.5
Echiurida (Ec)	1	0.2	0.2	195.5
Eulalia macroceros (An)	1	0.2	0.2	195.5
Lumbrineriopsis paradoxa (An)	1	0.2	0.2	195.5
Vermiliopsis annulata (An)	1	0.2	0.2	195.5
Notopygos crinita (An)	1	0.2	0.2	195.5
Glycera papillosa (An)	1	0.2	0.2	195.5
Trichobranchus glacialis (An)	1	0.2	0.2	195.5
Serpulidae (An)	1	0.2	0.2	195.5
Hydroides uncinata (An)	1	0.2	0.2	195.5
Hyboscolex longiseta (An)	1	0.2	0.2	195.5
Malacoceros glutaeus (An)	1	0.2	0.2	195.5
Phyllodoce fragilis (An)	1	0.2	0.2	195.5
Hydroides sp. A (An)	1	0.2	0.2	195.5
Hydroides sp. E (An)	1	0.2	0.2	195.5
Phyllodoce sp. C (An)	1	0.2	0.2	195.5
Potamilla sp. C (An)	1	0.2	0.2	195.5
Prionospio sp. B (An)	1	0.2	0.2	195.5
Ceratonereis mirabilis (An)	1	0.2	0.2	195.5
Lysidice sp. B (An)	1	0.2	0.2	195.5
Spiophanes sp. A (An)	1	0.2	0.2	195.5
Amblyosyllis formosa (An)	1	0.2	0.2	195.5
Sigalion sp. A (An)	1	0.2	0.2	195.5
Leiochrides pallidior (An)	1	0.2	0.2	195.5
Nephtys incisa (An)	1	0.2	0.2	195.5
Axiothella mucosa (An)	1	0.2	0.2	195.5
Nephtys squamosa (An)	1	0.2	0.2	195.5
Arabella mutans (An)	1	0.2	0.2	195.5
Glyceridae (An)	1	0.2	0.2	195.5
Arabella iricolor (An)	1	0.2	0.2	195.5
Odontosyllis fulgurans (An)	1	0.2	0.2	195.5
Goniada maculata (An)	1	0.2	0.2	195.5
Syllis sp. E (An)	1	0.2	0.2	195.5
Capitellidae B (An)	1	0.2	0.2	195.5
Capitellidae C (An)	1	0.2	0.2	195.5
Spio pettiboneae (An)	1	0.2	0.2	195.5
Thelepus setosus (An)	1	0.2	0.2	195.5
Sabellidae (An)	1	0.2	0.2	195.5
Lysidice ninetta (An)	1	0.2	0.2	195.5
Syllidae C (An)	1	0.2	0.2	195.5

Appendix 11 (Continued)

Miscellaneous Colonial Invertebrates and Algae
Leuconsolenia canariensis (Po)
Poecilosclerida E (Po)
Algae

Appendix 12. Community structure values [number of individuals, number of species, Shannon diversity (H'), evenness (J'), and richness (SR)] for invertebrates in each suction (stations ISO1-MSO3) and grab (stations OSO1-OSO3) collection during winter, 1980.

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
ISO1	805005	269	92	5.55	0.85	16.26
	805006	399	91	5.07	0.78	15.03
	805007	475	95	4.97	0.76	15.25
	805008	294	105	5.62	0.84	18.30
	805009	300	72	5.10	0.83	12.45
ISO2	805014	620	109	5.52	0.82	16.80
	805015	386	74	4.72	0.76	12.26
	805016	552	98	5.52	0.83	15.36
	805017	410	78	4.70	0.75	12.80
	805018	582	89	5.22	0.81	13.82
ISO3	805024	420	102	5.46	0.82	16.72
	805025	556	98	5.50	0.83	15.35
	805026	723	133	5.61	0.79	20.05
	805027	484	108	5.68	0.84	17.31
	805028	691	119	5.70	0.82	18.05
MSO1	805054	795	142	5.84	0.82	21.11
	805055	419	124	6.22	0.89	20.37
	805056	238	71	4.88	0.79	12.79
	805057	5076	80	0.68	0.11	9.26
MSO2	805034	144	56	5.14	0.88	11.07
	805035	359	79	4.99	0.79	13.26
	805036	481	87	4.23	0.65	13.92
	805037	218	63	5.23	0.87	11.51
MSO3	805062	282	79	4.68	0.74	13.82
	805063	323	102	5.81	0.87	17.48
	805064	114	59	5.29	0.90	12.25
	805065	240	91	5.79	0.89	16.42
	805066	140	58	5.13	0.88	11.53

Appendix 12 (Continued)

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
OS01	800320	57	34	4.65	0.91	8.16
	800321	61	47	5.37	0.97	11.19
	800322	136	52	5.12	0.90	10.38
	800323	22	16	3.79	0.95	4.85
	800324	149	62	5.24	0.88	12.19
OS02	800346	50	23	4.09	0.90	5.62
	800347	26	16	3.64	0.91	4.60
	800348	6	3	1.25	0.79	1.12
	800349	5	3	1.52	0.96	1.24
	800350	42	19	3.42	0.80	4.81
OS03	800367	46	28	4.52	0.94	7.05
	800368	51	27	4.43	0.93	6.61
	800369	26	17	3.79	0.93	4.91
	800370	264	86	5.57	0.87	15.24
	800371	229	87	5.84	0.91	15.83

Appendix 13. Community structure values [number of individuals, number of species, Shannon diversity (H'), evenness (J') and richness (SR)] for invertebrates in each suction (stations ISO1-MSO3) and grab (stations OSO1-OSO3) collection during summer, 1980.

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
ISO1	805091	30	17	3.60	0.88	4.70
	805092	24	13	3.35	0.91	3.78
	805093	57	34	4.74	0.93	8.16
	805094	35	21	3.73	0.85	5.63
	805095	76	40	4.81	0.90	9.01
ISO2	805083	160	74	5.47	0.88	14.38
	805084	90	44	5.01	0.92	9.56
	805085	138	56	5.16	0.89	11.16
	805086	4051	58	0.33	0.06	6.86
	805087	87	46	5.01	0.91	10.08
ISO3	805072	199	76	5.35	0.86	14.17
	805073	253	91	5.76	0.89	16.26
	805074	281	94	5.61	0.86	16.49
	805075	547	104	5.57	0.83	16.34
	805076	88	49	5.07	0.90	10.72
MSO1	805115	326	71	4.45	0.72	12.10
	805116	2286	82	1.01	0.16	10.47
	805117	190	85	5.67	0.88	16.01
	805118	196	78	5.60	0.89	14.59
	805119	182	72	5.18	0.84	13.64
MSO2	805105	143	49	4.80	0.86	9.67
	805106	234	52	4.00	0.70	9.35
	805107	139	65	5.60	0.93	12.97
	805108	60	28	4.18	0.87	6.59
	805109	16	13	3.62	0.98	4.33
OSO1	800750	48	26	3.87	0.82	6.46
	800751	383	73	3.94	0.64	12.10
	800752	334	68	4.47	0.73	11.53

Appendix 13 (Continued)

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
	800753	117	30	3.31	0.67	6.09
	800754	86	36	3.99	0.77	7.86
OS02	800728	133	41	3.71	0.69	8.18
	800730	102	20	2.52	0.58	4.11
	800732	321	73	5.03	0.81	12.48
	800733	322	76	4.49	0.72	12.99
	800734	182	64	5.29	0.88	12.11
OS03	800690	490	116	5.31	0.77	18.57
	800691	3614	30	0.28	0.06	3.54
	800692	290	66	3.99	0.66	11.46
	800694	3426	133	2.40	0.34	16.22
	800695	437	46	2.49	0.45	7.40

Appendix 14. Abundance by station of fish species captured by trawl for winter (w) and summer (s).

Station:	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		Total	
Season:	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Number of Tows:	6	6	6	6	6	5	6	6	6	6	6	6	6	6	42	41
Species																
Narcinidae																
Narcine brasiliensis	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Myliobatidae																
Myliobatis freminvillei	-	-	-	-	-	-	-	-	1	-	1	-	-	-	2	-
Dasyatidae																
Dasyatis americana	-	-	-	-	10	-	-	-	1	1	-	-	-	-	11	1
D. centroura	-	-	-	-	-	2	-	-	1	-	1	-	1	-	3	2
D. sayi	-	-	-	-	-	-	2	-	1	-	1	-	-	-	4	-
Orectolobidae																
Ginglymostoma cirratum	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	2
Triakidae																
Mustelus canis	3	-	-	-	1	-	1	-	2	-	-	-	-	-	7	-
Carcharhinidae																
Rhizoprionodon terranovae	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
Anguillidae																
Anguilla rostrata	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
Muraenidae																
Gymnothorax saxicola	-	-	-	-	1	4	-	1	-	2	-	4	-	-	1	11
Muraena retifera	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Congridae																
Ariosoma balaericum	-	-	-	1	-	1	-	1	-	3	-	-	-	-	-	6
Conger oceanicus	-	-	-	1	-	-	-	-	1	-	1	-	-	-	2	1
Ophichthidae																
Ophichthus ocellatus	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
Clupeidae																
Etrumeus teres	1	-	-	-	-	1	-	1	-	2	-	-	18	-	19	4
Sardinella aurita	-	44	-	13	1027	15	-	29	-	137	2	1	-	-	1029	239
Engraulidae																
Anchoa hepsetus	-	-	-	-	195	-	-	1	-	-	-	-	-	-	195	1
A. lyolepis	-	48	-	26	-	-	-	-	-	-	-	-	-	-	-	74
Engraulis eurystole	-	-	-	-	-	-	6	-	-	-	-	-	-	-	6	-

Appendix 14 (Continued)

	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		Total	
	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Synodontidae																
Saurida brasiliensis	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
Synodus foetens	6	9	6	12	35	5	15	4	11	8	15	1	3	8	91	47
S. intermedius	-	1	-	1	-	-	-	-	-	1	2	2	-	-	2	5
S. poeyi	-	-	-	-	-	-	1	5	3	3	-	6	38	13	42	27
Trachinocephalus myops	-	-	-	-	-	-	-	1	-	1	5	2	1	-	6	4
Batrachoididae																
Porichthys porosissimus	-	60	-	33	5	20	-	1	-	2	-	16	-	-	5	132
Opsanus sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O. pardus	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Ogcocephalidae																
Ogcocephalus cubifrons (= radiatus)	1	-	-	-	-	-	-	-	-	-	1	1	-	-	2	1
O. parvus	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	1
Gadidae																
Urophycis sp.	13	-	11	-	-	-	-	-	-	-	-	-	-	-	24	-
U. earlli	3	1	-	1	1	1	-	-	1	-	1	-	-	-	6	3
U. regius	319	-	17	-	16	-	-	-	-	-	4	-	18	-	374	-
Ophidiidae																
Lepophidium jeannae	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Ophidion beani	-	-	-	1	1	1	-	2	1	1	3	-	-	1	5	6
O. holbrooki	4	22	3	19	22	8	-	48	-	14	18	13	-	7	47	131
O. selenops	1	-	-	1	-	1	-	-	-	-	-	-	-	-	1	2
Carapidae																
Carapus bermudensis	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2
Echiodon sp. nov	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	3
Hemiramphidae																
Hemiramphus brasiliensis	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Holocentridae																
Myripristis jacobus	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Syngnathidae																
Hippocampus erectus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scorpaenidae																
Scorpaena brasiliensis	2	8	3	26	3	8	3	2	1	1	7	11	-	2	19	58
S. calcarata	2	8	-	2	-	1	2	-	-	2	3	6	-	10	7	29
S. plumieri	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-

Appendix 14 (Continued)

	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		Total	
	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Triglidae																
Bellator militaris	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	2
Prionotus sp.	23	-	-	1	6	-	-	-	-	-	-	-	-	-	29	1
P. carolinus	164	120	-	187	1	-	-	1	1	10	-	-	-	-	166	318
P. ophryas	-	-	-	3	3	-	-	1	1	1	2	2	-	2	6	9
P. roseus	-	1	-	-	-	1	-	-	1	1	1	-	-	-	2	3
P. salmonicolor	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	3
P. scitulus	2	5	-	2	6	-	-	-	1	-	-	-	-	-	9	7
Dactylopteridae																
Dactylopterus volitans	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	3
Serranidae																
Centropristis ocyurus	10	30	-	20	1	13	1	48	2	5	27	16	5	22	46	154
C. philadelphica	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-
C. striata	22	194	22	161	29	60	2	6	38	33	7	8	-	-	120	462
Diplectrum formosum	2	51	-	40	17	2	12	26	32	8	70	-	-	-	133	127
Mycteroperca microlepis	-	-	-	-	-	-	-	2	-	1	1	-	1	-	2	3
Serraniculus pumilio	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Serranus phoebe	-	-	-	-	-	-	-	1	-	-	-	-	2	52	2	53
S. subligarius	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
Grammistidae																
Rypticus bistrispinus	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
Priacanthidae																
Priacanthus arenatus	-	1	-	1	1	8	5	4	11	10	2	1	1	-	20	25
P. cruentatus	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Pristigenys altus	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2
Apogonidae																
Apogon pseudomaculatus	-	25	-	59	-	-	-	163	-	18	-	38	-	9	-	312
Pomatomidae																
Pomatomus saltatrix	-	-	1	-	2	-	-	-	-	-	-	-	-	-	3	-
Rachycentridae																
Rachycentron canadum	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
Echeneidae																
Echeneis naucrates	-	-	-	2	-	1	-	-	-	-	-	4	-	-	-	7
Carangidae																
Caranx bartholomaei	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
C. crysos	-	-	-	4	-	-	-	-	-	1	-	1	-	1	-	7
Decapterus sp.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-

Appendix 14 (Continued)

	IS01		IS02		IS03		MS01		MS02		MS03		OS01		Total	
	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
D. punctatus	16	189	-	45	1	1581	177	696	7	2612	259	158	32	-	492	5281
Selene sp. ?	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Seriola dumerili	-	-	-	-	-	2	-	-	-	-	-	1	2	1	2	4
Trachurus lathami	-	-	-	-	-	13	-	-	-	-	-	-	1	-	1	13
Lutjanidae																
Lutjanus campechanus	-	-	-	-	-	2	8	2	9	-	7	4	-	1	24	9
Rhomboplites aurorubens	-	1	-	-	934	15	6	399	138	460	2449	192	13	141	3540	1208
Gerridae																
Eucinostomus argenteus	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2	-
Haemulonidae																
Haemulon aurolineatum	-	435	-	1587	1530	921	859	799	-	479	2127	179	-	-	4516	4400
H. plumieri	-	-	-	-	-	-	1	2	-	1	-	-	-	-	1	3
Orthopristis chrysoptera	-	1	3	8	30	14	-	-	-	-	-	-	-	-	33	23
Sparidae																
Sparidae	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
Archosargus probatocephalus	1	-	3	2	9	8	1	-	12	2	-	-	-	-	26	12
Calamus bajonado	-	-	1	-	-	-	-	1	-	-	-	1	-	-	1	2
C. leucosteus	-	38	17	1	24	33	56	31	89	52	53	2	26	53	265	210
Diplodus holbrooki	-	2	3	1	-	-	1	2	15	-	-	-	-	-	19	5
Lagodon rhomboides	-	1	78	15	168	20	-	-	1	-	28	-	-	-	275	36
Pagrus pagrus	-	-	-	-	-	-	6	10	18	4	7	-	63	14	94	28
Stenotomus aculeatus	177	2942	174	2721	472	1730	1163	1443	9559	8580	735	1015	1	2	12281	18433
Stenotomus sp.	4	-	-	-	-	-	-	-	-	1	-	-	-	-	4	1
Sciaenidae																
Cynoscion regalis	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Equetus lanceolatus	-	1	-	1	2	1	-	3	621	2	115	15	-	-	738	23
Larimus fasciatus	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Leiostomus xanthurus	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Pareques sp. nov.	-	-	-	-	-	-	-	-	-	-	-	-	3	17	3	17
P. umbrosus	-	8	20	16	175	30	8	10	14	1	5	26	-	145	222	236
Mullidae																
Mullus auratus	-	-	-	-	-	1	-	1	-	-	21	-	-	-	21	2
Ephippidae																
Chaetodipterus faber	-	-	3	13	3	10	-	-	4	-	-	-	-	-	10	23
Chaetodontidae																
Chaetodon aya	-	-	-	-	-	-	-	-	-	-	1	-	-	5	1	5
C. ocellatus	-	-	-	-	4	-	-	1	1	-	-	2	-	1	5	4
C. sedentarius	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	5

Appendix 14 (Continued)

	IS01		IS02		IS03		MS01		MS02		MS03		OS01		Total	
	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Pomacanthidae																
Holacanthus isabelita	-	-	-	-	-	-	-	11	4	1	7	7	-	1	11	20
Labridae																
Halichoeres bivittatus	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	3
Dactyloscopidae																
Dactyloscopus sp.	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-
Uranoscopidae																
Kathetostoma albigutta	-	-	-	-	-	-	-	1	-	-	-	1	2	-	2	2
Blenniidae																
Hypleurochilus geminatus	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	12
Parablennius marmoreus	-	-	1	-	1	-	1	-	-	-	-	2	-	1	3	3
Gobiidae																
Evermannichthys spongicola	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	1
Microgobius carri	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Risor ruber	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Scombridae																
Scomber japonicus	-	-	-	-	159	23	-	1	-	-	-	-	-	-	159	24
Scomberomorus cavalla	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4
Stromateidae																
Peprilus sp.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
P. burti	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
P. triacanthus	-	-	-	-	4	-	-	-	-	-	-	-	4496	-	4500	-
Bothidae																
Ancylopsetta quadrocellata	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Bothidae	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Bothus sp.	-	-	-	-	-	-	-	-	-	1	-	4	-	-	-	5
B. ocellatus	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1	2
B. robinsi	-	-	-	-	-	1	-	-	-	-	2	4	-	-	2	5
Citharichthys cornutus	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
C. macrops	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Cyclopsetta fimbriata	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Etropus sp.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Paralichthys albigutta	1	1	-	1	-	1	1	-	-	1	-	-	-	-	2	4
P. dentatus	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	1
Syac'um sp.	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
S. papillosum	19	11	8	57	6	6	8	4	1	-	10	6	22	2	74	86

Appendix 14 (Continued)

	IS01		IS02		IS03		MS01		MS02		MS03		OS01		Total	
	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Cynoglossidae																
Symphurus diomedianus	1	-	-	-	-	-	-	1	-	-	1	-	-	-	2	1
S. plagiusa	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	2
Balistidae																
Aluterus heudelotii	-	-	-	-	-	-	-	1	3	1	-	-	-	-	3	2
A. schoepfi	-	1	-	3	-	-	8	11	31	6	16	24	-	-	55	45
Balistes capriscus	-	3	-	3	1	1	-	-	1	1	-	-	-	-	2	8
Monacanthus ciliatus	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Stephanolepis hispidus	3	141	1	40	5	32	4	19	33	18	28	11	-	-	74	261
Balistidae	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Ostraciontidae																
Acanthostracion quadricornis	2	4	1	16	7	5	5	3	24	2	16	1	-	-	55	31
Tetraodontidae																
Sphoeroides sp.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
S. maculatus	2	-	-	6	-	-	-	-	-	-	-	-	-	-	2	6
S. spengleri	-	-	-	-	-	-	-	-	-		5	-	-	1	5	1
Diodontidae																
Chilomycterus schoepfi	-	1	2	7	2	1	-	1	-	-	-	-	-	-	4	10
Total	812	4413	381	5187	4927	4608	2366	3807	10696	12495	6070	1796	4755	527	30007	32833

Appendix 15. Community structure values [number of individuals, number of species, Shannon diversity (H'), evenness (J'), and richness (SR)] for fish in each trawl collection during winter, 1980.

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
IS01	800054	1	1	0.00	0.00	0.00
	800055	1	1	0.00	0.00	0.00
	800056	95	2	0.08	0.08	0.22
	800070	241	20	2.60	0.60	3.46
	800071	254	15	1.91	0.49	2.53
	800072	203	17	2.36	0.58	3.01
IS02	800144	44	9	2.49	0.78	2.11
	800145	59	7	1.[illegible]	0.65	1.47
	800146	200	14	2.23	0.58	2.45
	800156	42	5	1.28	0.55	1.07
	800157	4	3	1.50	0.95	1.44
	800158	31	4	1.10	0.55	0.87
IS03	800104	511	22	2.67	0.60	3.37
	800105	1359	22	1.81	0.41	2.91
	800106	1371	27	2.25	0.47	3.60
	800116	23	8	2.17	0.72	2.23
	800117	28	8	1.91	0.64	2.10
	800118	246	11	1.48	0.43	1.82
MS01	800228	10	8	2.92	0.97	3.04
	800229	6	3	1.46	0.92	1.12
	800230	915	19	0.57	0.13	2.64
	800242	1186	12	0.30	0.08	1.55
	800243	62	8	1.23	0.41	1.70
	800244	4	3	1.50	0.95	1.44
MS02	800173	5852	10	0.09	0.03	1.04
	800174	477	13	1.06	0.29	1.95
	800175	1022	11	1.22	0.35	1.44
	800185	799	24	0.92	0.20	3.44
	800186	1597	21	0.69	0.16	2.71

Appendix 15 (Continued)

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
MS02	800187	942	16	0.91	0.23	2.19
MS03	800405	507	23	2.12	0.47	3.53
	800406	152	16	1.98	0.50	2.99
	800407	325	22	2.28	0.51	3.63
	800419	2550	20	2.00	0.46	2.42
	800420	35	9	2.68	0.85	2.25
	800421	2240	19	1.22	0.29	2.33
OS01	800300	2	2	1.00	1.00	1.44
	800301	71	4	0.63	0.31	0.70
	800302	21	2	0.45	0.45	0.33
	800312	54	12	2.76	0.77	2.76
	800313	45	10	2.39	0.72	2.36
	800314	11	5	2.19	0.94	1.67

Appendix 16. Community structure values [number of individuals, number of species, Shannon diversity (H'), evenness (J'), and richness (SR)] for fish in each trawl collection during summer, 1980.

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
IS01	800453	68	7	1.58	0.56	1.42
	800454	390	7	0.50	0.18	1.01
	800455	103	6	1.32	0.51	1.08
	800468	840	26	2.14	0.46	3.71
	800469	1895	21	1.61	0.37	2.65
	800470	836	18	1.66	0.40	2.53
IS02	800481	1560	32	2.08	0.42	4.22
	800482	1363	26	2.23	0.47	3.46
	800483	1736	24	1.70	0.37	3.08
	800495	22	10	2.41	0.73	2.91
	800496	341	6	0.14	0.06	0.86
	800497	71	6	0.68	0.26	1.17
IS03	800520	143	2	0.06	0.06	0.20
	800521	716	12	0.92	0.26	1.67
	800522	926	12	1.32	0.37	1.61
	800532	232	15	2.36	0.60	2.57
	800533	955	27	2.06	0.43	3.79
MS01	800596	544	21	1.95	0.44	3.18
	800597	734	31	2.64	0.53	4.55
	800609	13	5	1.88	0.81	1.56
	800610	572	9	1.82	0.26	1.26
	800611	706	10	1.65	0.50	1.37
	800626	509	18	2.09	0.50	2.73
MS02	800572	1513	15	1.14	0.29	1.91
	800573	1838	8	0.44	0.15	0.93
	800574	5645	9	0.40	0.13	0.93
	800587	236	21	2.10	0.48	3.66
	800588	277	21	2.12	0.48	3.56
	800589	234	21	2.60	0.59	3.67

Appendix 16 (Continued)

Station	Collection Number	No. Individuals	No. Species	H'	J'	SR
MS03	800633	367	6	1.16	0.45	0.85
	800643	471	24	1.82	0.40	3.74
	800644	114	21	3.56	0.81	4.22
	800645	116	21	3.24	0.74	4.21
	800661	531	12	1.43	0.40	1.75
	800662	32	5	1.68	0.72	1.15
OS01	800766	88	21	3.41	0.78	4.47
	800767	132	16	2.64	0.66	3.07
	800768	224	16	1.84	0.46	2.77
	800778	9	2	0.50	0.50	0.46
	800779	21	6	2.24	0.87	1.64
	800780	51	5	0.65	0.28	1.02

Appendix 17. Abundance of individual taxa of larval and juvenile fishes by station and season. Numbers indicate total specimens taken at each station in winter (w) and summer (s) samples. Family totals are given opposite upper case family names. Asterisks indicate questionable identifications.

Station:	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		OSO2		OSO3	
Season:	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Taxa																		
NESSORHAMPHIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Nessorhamphus sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
CONGRIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
OPHICHTHIDAE	-	-	-	-	-	-	-	-	-	-	-	1	1	-	8	{*1, 1}	-	-
CLUPEIDAE	2	-	-	32	-	4	-	4	4	1	21	170	27	1	6598	6	54	-
Clupeidae	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-
Etrumeus teres	-	-	-	-	-	-	-	-	-	-	21	-	25	-	6269	-	54	-
Sardinella aurita	-	-	-	{*13, 19}	-	2	-	4	-	-	-	170	2	1	-	6	-	-
Sardinella sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	223	-	-	-
Brevoortia sp.	2	-	-	-	-	-	-	-	4	-	-	-	-	-	106	-	-	-
ENGRAULIDAE	-	50	-	18	-	7	-	-	-	7	-	1	-	-	-	3	-	4
GONOSTOMATIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4
Gonostomatidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Cyclothone sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Maurolicus sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Vinciguerria sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
SYNODONTIDAE	-	5	-	11	-	1	1	-	-	6	5	6	3	-	30	1	7	2
Synodontidae	-	5	-	11	-	1	1	-	-	5	5	6	3	-	30	1	7	2
Synodus poeyi	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
AULOPIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*1	-	-	-
MYCTOPHIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	7	5	12
Myctophidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7	2	12
Diaphus sp.	-	-	-	-	-	-		-	-	-	-	-	-	-	4	-	1	-
Lampadena sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Myctophum sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
Myctophinae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
BATRACHOIDIDAE	-	12	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Porichthys porosissimus	-	12	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GOBIESOCIDAE	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gobiesox strumosus	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANTENNARIIDAE	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	-	1

Appendix 17 (Continued)

Station:	IS01		IS02		IS03		MS01		MS02		MS03		OS01		OS02		OS03	
Season:	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Taxa																		
BREGMACEROTIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	2	1
Bregmacerotidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-
Bregmaceros sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
GADIDAE	2	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Urophycis regius	2	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Urophycis sp.	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPHIDIIDAE	-	7	-	2	-	1	-	3	-	11	2	5	1	-	69	-	1	1
Ophidiidae	-	6	-	1	-	1	-	3	-	10	2	5	1	-	69	-	1	1
Lepophidium sp.	-	*1	-	*1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
CARAPIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1
Carapidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Carapus bermudensis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Echiodon sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-
EXOCOETIDAE	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SYNGNATHIDAE	-	1	-	-	-	-	-	-	-	-	-	-	1	-	8	-	-	-
Hippocampus erectus	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Syngnathus sp.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8	-	-	-
SCORPAENIDAE	-	-	-	-	-	1	-	-	-	-	1	1	-	-	2	-	-	3
TRIGLIDAE	2	-	8	3	-	-	-	3	-	-	-	-	-	-	17	-	3	-
Triglidae	-	-	-	3	-	-	-	3	-	-	-	-	-	-	17	-	3	-
Prionotus carolinus	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prionotus sp.	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SERRANIDAE	-	-	-	4	-	5	1	16	-	3	3	3	4	1	34	3	3	3
Centropristis ocyurus	-	-	-	-	-	-	1	-	-	-	2	-	4	-	6	-	-	-
Centropristis sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-
Serraniculus pumilio	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serranus phoebe	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Serranus sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1
Diplectrum sp.	-	-	-	-	-	4	-	6	-	2	-	3	-	-	10	-	1	-
Serraninae	-	-	-	-	-	1	-	10	-	1	1	-	-	-	6	2	1	1
Hemanthias sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-
Anthias sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
PRIACANTHIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

Appendix 17 (Continued)

Station:	IS01		IS02		IS03		MS01		MS02		MS03		OS01		OS02		OS03	
Season:	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Taxa																		
APOGONIDAE	-	-	-	1	-	-	-	2	-	2	-	-	-	4	-	2	-	1
Apogonidae	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-
Apogon quadrisquamatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Apogon aurolineatus	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Apogon pseudomaculatus	-	-	-	-	-	-	-	1	-	2	-	-	-	3	-	-	-	-
POMATOMIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-
Pomatomus saltatrix	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-
CARANGIDAE	-	-	-	14	-	1	-	4	-	2	-	14	-	-	4	4	1	1
Carangidae	-	-	-	14	-	-	-	4	-	-	-	4	-	-	4	1	1	-
Decapterus punctatus	-	-	-	-	-	1	-	-	-	1	-	7	-	-	-	2	-	-
Decapterus sp.	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-
Selene setapinnis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Seriola sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
CORYPHAENIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Coryphaena sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
LUTJANIDAE	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Lutjanidae	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Rhomboplites aurorubens	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
GERREIDAE	-	-	-	12	-	-	-	-	-	-	-	-	-	-	2	-	-	-
HAEMULIDAE	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3
SPARIDAE	3	-	1	-	-	-	-	-	-	-	-	-	-	-	41	-	1	-
Sparidae	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pagrus pagrus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
Stenotomus sp.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	1	-
SCIAENIDAE	11	-	96	-	19	-	1	-	5	-	6	-	17	-	44	-	-	-
Leiostomus xanthurus	8	-	72	-	16	-	1	-	5	-	5	-	17	-	35	-	-	-
Micropogonias undulatus	3	-	24	-	3	-	-	-	-	-	1	-	-	-	8	-	-	-
Larimus fasciatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CHAETODONTIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Holacanthus sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
POMACENTRIDAE	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Chromis enchrysura	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-

Appendix 17 (Continued)

Station:	ISO1		ISO2		ISO3		MSO1		MSO2		MSO3		OSO1		OSO2		OSO3	
Season:	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Taxa																		
LABRIDAE	-	1	-	2	-	-	-	1	-	6	-	2	-	1	9	-	-	-
Labridae	-	1	-	1	-	-	-	1	-	6	-	2	-	1	9	-	-	-
Halichoeres bivittata	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCARIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	-
OPISTOGNATHIDAE	-	-	-	-	-	*1	-	-	-	-	-	-	-	-	-	-	-	-
DACTYLOSCOPIDAE	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dactyloscopus sp.	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
URANOSCOPIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-
BLENNIIDAE	-	-	-	3	-	2	-	-	-	1	-	1	-	-	-	-	-	-
Blenniidae	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Hypleurochilus geminatus	-	-	-	3	-	1	-	-	-	1	-	1	-	-	-	-	-	-
CLINIDAE	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALLIONYMIDAE	-	1	-	-	-	4	-	8	-	-	-	23	1	-	-	-	2	-
GOBIIDAE	1	4	2	26	1	8	-	11	-	4	1	8	5	2	12	2	2	7
Gobiidae	-	4	2	23	1	8	-	11	-	4	1	8	5	2	12	2	2	7
Gobiosoma ginsburgi	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Evermannichthys spongicola	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lythrypnus phorellus	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEMPYLIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
TRICHIURIDAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
Trichiurus lepturus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
SCOMBRIDAE	-	-	-	-	-	-	-	-	-	-	-	3	-	4	-	3	-	2
Scombridae	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Euthynnus alletteratus	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	2	-	-
Scomberomorus cavalla	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Katsuwonus pelamis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Auxis sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
STROMATEIDAE	-	-	-	-	-	-	1	-	-	-	-	-	1	1	75	2	7	1
Cubiceps pauciradiatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	-
Psenes pellucidus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Psenes sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Peprilus sp.	-	-	-	-	-	-	1	-	-	-	-	-	1	-	69	-	-	-

Appendix 17 (Continued)

Station:	IS01		IS02		IS03		MS01		MS02		MS03		OS01		OS02		OS03	
Season:	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s	w	s
Taxa																		
Ariomma sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-
Hyperoglyphe sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-
SCOPHTHALMIDAE	-	-	16	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
Scophthalmus aquosus	-	-	16	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
BOTHIDAE	8	1	8	6	-	3	1	2	8	15	15	19	14	5	305	3	-	22
Etropus rimosus	*8	-	-	-	-	-	*1	-	*7	-	-	-	*7	-	-	-	-	-
Etropus crossotus	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
Etropus sp.	-	1	-	2	-	2	-	1	-	{*9 4	15	2	6	3	{*20 107	1	-	-
Citharichthys arctifrons	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Citharichthys spilopterus	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Citharichthys gymnorhinus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Citharichthys sp.	-	-	4	4	-	-	-	-	1	1	-	1	-	2	{*24 105	-	-	10
Cyclopsetta fimbriata	-	-	-	-	-	-	-	-	-	-	-	1	-	-	44	-	-	-
Paralichthys sp.	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Bothus sp.	-	-	1	-	-	1	-	-	-	1	-	4	-	-	4	2	-	11
Syacium sp.	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
SOLEIDAE	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
CYNOGLOSSIDAE	-	4	-	1	-	3	-	23	-	4	-	28	-	2	4	2	-	-
Symphurus sp.	-	4	-	1	-	3	-	23	-	4	-	28	-	2	4	2	-	-
MONACANTHIDAE	-	2	-	1	-	-	-	2	-	2	-	-	-	-	1	-	-	-
Stephanolepis hispidus	-	2	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-
Stephanolepis sp.	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
Aluterus sp.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TETRAODONTIDAE	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Tetraodontidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Sphoeroides sp.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other fish larvae	-	-	-	1	1	1	-	-	-	1	-	-	-	-	4	-	11	-
Disintegrated fish - unidentifiable	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	2	-	-

APPENDICES FOR VOLUME II

Appendix 18. Field records obtained for each sample collection during the summer cruise 1980. Collection numbers are listed in numerical order by station. Keys to the following coded information are listed on this page.

Category	Code
Vessel:	CW = Commercial/work boat
	DM = R/V Dan Moore
	EW = R/V Eastward
Gear:	010 - ROTENONE
	014 - Hook and line
	041 - Mini-Antillean s-trap
	043 - Snapper reel
	058 - Smith-MacIntyre grab
	061 - Vertical long line
	064 - Suction sampler
	065 - Spear gun collection
	066 - Rock collection
	067 - Rock dredge
	068 - Transmissometer
	069 - Burrell sled, 374 m mesh
	070 - 40/54 fly net
	072 - Cerame-Vivas dredge
	074 - Florida Antillean trap
	299 - Surface hydro
	300 - Niskin bottles - standard cast
	303 - Fathometer plus Loran
	498 - Edgerton camera
	499 - Ground truth photography with Nikonos camera
	506 - Towed TV transect - horizontal
	508 - Swimming transects with diver observations and/or collections
Catch:	0 - No catch
	1 - Catch with finfish
	2 - Catch without finfish
	3 - No catch - gear lost or damaged
	4 - Catch inadvertently mixed
	5 - Net obstructed by Stomolophus
	6 - Catch questionable - net or gear damaged
	7 - NA
Light Phase:	1 - Day
	2 - Night
	3 - Dawn
	4 - Dusk

Category	Code
Cloud Cover:	A - Clear
	B - 10% or less
	C - 20-30%
	D - 40%
	E - 50%
	F - 60%
	G - 70-80%
	H - 90%
	I - 100%
	J - No estimate
Precipitation:	0 - None
	1 - Light rain
	2 - Moderate rain
	3 - Heavy rain
Wind Direction:	00 - No motion
	01 - 005° - 014°
	02 - 015° - 024°
	03 - 025° - 034°
	. . .
	. . .
	. . .
	35 - 345° - 354°
	36 - 355° - 004°
	99 - Variable or unknown
Sea State:	0 - Glassy
	1 - > 0.0 - ≤ 0.1
	2 - > 0.1 - ≤ 0.5
	3 - > 0.5 - ≤ 1.25
	4 - > 1.25 - ≤ 2.5
	5 - > 2.5 - ≤ 4.0
	6 - > 4.0 - ≤ 6.0
	7 - > 6.0 - ≤ 9.0
	8 - > 9.0 - ≤ 14.0
	9 - > 14.0

Appendix 18. (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
ISO4	809024	CW	8	18	499	7	1433	1	5	23		G	0	26.0		0	0	3	35 20.5	75 21.6
ISO4	809025	CW	8	18	064	2	1503	1	25	23		H	0	26.0		0	0	3	35 20.5	75 21.6
ISO4	809026	CW	8	18	064	2	1503	1	25	23		H	0	26.0		0	0	3	35 20.5	75 21.6
ISO4	809027	CW	8	18	064	2	1503	1	25	23		H	0	26.0		0	0	3	35 20.5	75 21.6
ISO4	809028	CW	8	18	508	7	1503	1	25	23		H	0	26.0		0	0	3	35 20.5	75 21.6
ISO4	809030	CW	8	18	299	7	1545	1	1	23		H	0	27.0		0	0	3	35 20.5	75 21.6
ISO4	809031	CW	8	18	064	2	1603	1	18	23		I	0	27.0		0	0	3	35 20.5	75 21.6
ISO4	809032	CW	8	18	064	1	1603	1	18	23		I	0	27.0		0	0	3	35 20.5	75 21.6
ISO4	809033	CW	8	18	066	2	1603	1	18	23	10.5	I	0	27.0		0	0	3	35 20.5	75 21.6
ISO4	809043	EW	9	5	506	7	1715	1	15	20		H	0	29.0	19.3	4	1	2	35 20.5	75 21.2
ISO4	809045	EW	9	5	300	7	1803	1	21	26	22.0	H	0	29.0	19.3	4	1	2	35 20.2	75 21.5
ISO4	809046	EW	9	5	068	7	1827	1	8	22		H	0	29.0	19.3	4	1	X	35 20.0	75 21.4
ISO4	809047	EW	9	5	072	2	2157	1	8	22		H	0	27.0	19.3	4	1	2	35 20.5	75 21.6
ISO4	809048	EW	9	5	072	2	2209	1	5	20		H	0	27.0	19.3	9	3	2	35 20.4	75 21.7
ISO4	809049	EW	9	5	072	2	2221	1	7	18		H	0	27.0	19.3	9	3	2	35 20.5	75 21.6
ISO4	809050	EW	9	5	072	2	2233	1	8	26		H	0	27.0	19.3	9	3	2	35 20.5	75 21.5
ISO4	809051	EW	9	5	072	2	2303	1	6	24		H	0	27.0	19.3	9	3	2	35 20.4	75 22.2
ISO4	809101	DM	9	16	061	0	2233	4	54	21		I	0		19.3	1		2	35 20.8	75 21.4
ISO4	809102	DM	9	16	061	0	2233	4	61	24		I	0		19.3	1		2	35 20.7	75 21.6
ISO4	809103	DM	9	16	061	2	2233	4	68	21		I	0		20.7	1		2	35 20.5	75 21.7
ISO4	809104	DM	9	16	061	0	2239	4	74	22		I	0		20.7	1		3	35 20.5	75 21.7
ISO4	809105	DM	9	16	041	1	2239	4	79	20		I	0		20.7	1		3	35 20.4	75 21.7
ISO4	809106	DM	9	16	014	1	2245	4	33	24		I	0		20.7	1		3	35 20.4	75 21.8
ISO4	809107	DM	9	17	070	1	209	2	11	25		I	0		20.7	1		3	35 20.0	75 21.0
ISO4	809108	DM	9	17	070	1	427	2	11	25		I	0		20.7	1		3	35 20.1	75 20.9
ISO4	809109	DM	9	17	070	1	709	2	12	25		I	3		20.7	1		3	35 20.0	75 20.8
ISO4	809110	DM	9	17	014	0	915	2	20	23		I	0		20.7	1		3	35 20.3	75 21.1
ISO4	809111	DM	9	17	061	0	1003	3	60	25		I	0		20.7	0		3	35 20.6	75 21.0
ISO4	809112	DM	9	17	061	3	1009	3		25		I	0		20.7	0		3	35 20.5	75 21.0
ISO4	809113	DM	9	17	061	2	1009	3	64	25		I	0		20.7	0		3	35 20.5	75 21.0
ISO4	809114	DM	9	17	061	3	1015	3		22		I	0		20.7	0		3	35 20.4	75 21.0
ISO4	809115	DM	9	17	041	0	1015	3	75	24		I	0		20.7	0		3	35 20.3	75 21.0
ISO4	809116	DM	9	17	014	0	1021	3	20	25		I	0		20.7	0		3	35 20.2	75 21.0
ISO4	809117	DM	9	17	070	1	1145	1	11	25		I	0		21.3	0		3	35 19.9	75 20.7
ISO4	809118	DM	9	17	070	1	1451	1	11	25		I	0	22.0	22.7	18	1	3	35 20.2	75 20.7
ISO4	809119	DM	9	17	070	1	1527	1	11	25		H	0	23.0	22.7	18	3	3	35 20.0	75 21.0
MSO4	809001	CW	8	13	499	7	1515	1	16	30		F	0	29.0		0	0	2	33 32.3	77 25.0
MSO4	809002	CW	8	13	499	7	1515	1	16	30		E	0	29.0		0	0	2	33 32.3	77 25.0
MSO4	809003	CW	8	13	508	2	1515	1	16	30		F	0	29.0		0	0	2	33 32.3	77 25.0
MSO4	809004	CW	8	13	508	7	1557	1	30	30		H	0	31.0		22	3	2	33 32.3	77 25.0
MSO4	809005	CW	8	13	010	1	1557	1	30	30		H	0	31.0		22	3	2	33 32.3	77 25.0
MSO4	809006	CW	8	13	064	2	1557	1	32	30		H	0	31.0		22	3	2	33 32.3	77 25.0
MSO4	809007	CW	8	13	064	2	1557	1	32	30		H	0	31.0		22	3	2	33 32.3	77 25.0
MSO4	809008	CW	8	13	064	2	1557	1	32	30	13.0	H	0	31.0		22	3	2	33 32.3	77 25.0
MSO4	809010	CW	8	13	299	7	1727	1	1	30		E	0	30.0		22	1	3	33 32.3	77 25.0

Appendix 18. (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	YEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	PENETRATION LIGHT (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
MS04	809011	CW	8	13	064	2	1733	1	22	30		E	0	30.0		22	1	3	33 32.3	77 25.0
MS04	809012	CW	8	13	064	2	1733	1	22	30		E	0	30.0		22	1	3	33 32.3	77 25.0
MS04	809013	CW	8	14	499	7	1509	1	29	30		C	0	31.0		0	0	2	33 32.3	77 25.0
MS04	809014	CW	8	14	065	1	1509	1	29	30		C	0	31.0		0	0	2	33 32.3	77 25.0
MS04	809015	CW	8	14	299	7	1515	1	1	30		C	0	31.0		0	0	2	33 32.3	77 25.0
MS04	809017	CW	8	14	508	2	1603	1	27	30		B	0	32.0		0	0	2	33 32.3	77 25.0
MS04	809018	CW	8	14	499	7	1603	1	27	30		B	0	32.0		0	0	2	33 32.3	77 25.0
MS04	809035	EW	9	4	506	7	1327	1	121	31		C	0	28.0	22.0	4	2	0	33 32.3	77 25.7
MS04	809037	EW	9	4	300	7	1603	1	30	27	20.5	C	0	28.0	22.0	4	2	0	33 33.4	77 25.2
MS04	809038	EW	9	4	068	7	1639	1	10	27		G	1	28.0	22.0	4	4	2	33 33.5	77 25.3
MS04	809039	EW	9	4	072	0	1933	1	17	33		D	0	29.0	19.3	11	1	0	33 32.7	77 25.2
MS04	809040	EW	9	4	072	2	2003	1	34	33		C	0	29.0	19.3	9	2	2	33 32.6	77 25.4
MS04	809041	EW	9	4	072	2	2051	1	18	29		E	0	28.0	19.3	9	3	2	33 32.2	77 25.1
MS04	809042	EW	9	4	498	7	2203	1	23	33		G	0	28.0	19.3	9	3	2	33 33.7	77 25.1
MS04	809120	DM	9	18	014	1	1009	3	30	27		G	0		24.7	0		4	33 31.9	77 25.0
MS04	809121	DM	9	18	014	1	1009	3	30	27		G	0		24.7	22	4	4	33 31.9	77 25.0
MS04	809122	DM	9	18	014	1	1009	3	30	27		G	0		24.7	0		4	33 31.9	77 25.0
MS04	809123	DM	9	18	061	1	1039	3	82	27		G	0		24.7	0		4	33 31.9	77 25.2
MS04	809124	DM	9	18	061	1	1039	3	88	27		G	0		24.7	0		4	33 31.8	77 25.1
MS04	809125	DM	9	18	061	1	1045	3	95	27		G	0		24.7	0		4	33 31.8	77 25.1
MS04	809126	DM	9	18	061	1	1045	3	60	27		G	0		24.7	0		4	33 31.7	77 24.9
MS04	809127	DM	9	18	041	1	1045	3	98	27		G	0		24.7	0		4	33 31.7	77 24.9
MS04	809128	DM	9	18	070	1	1415	1	11	28		G	0		24.7	0		3	33 31.7	77 25.0
MS04	809129	DM	9	18	070	1	1727	1	10	27		G	0		24.7	0		3	33 31.6	77 25.1
MS04	809130	DM	9	18	070	1	1851	1	10	27		G	0		24.7	0		3	33 31.8	77 25.1
MS04	809131	DM	9	18	061	1	2227	4	77	31		C	0		24.4	0		3	33 32.1	77 25.2
MS04	809132	DM	9	18	061	0	2227	4	77	27		C	0		24.4	0		3	33 32.1	77 25.2
MS04	809133	DM	9	18	061	3	2233	4		27		C	0		24.4	0		3	33 32.2	77 25.2
MS04	809134	DM	9	18	061	1	2233	4	78	27		C	0		24.4	0		3	33 32.3	77 25.3
MS04	809135	DM	9	18	041	0	2233	4	82	30		C	0		24.4	0		3	33 32.4	77 25.3
MS04	809136	DM	9	18	014	0	2245	4	57	27		C	0		24.4	0		3	33 32.4	77 24.6
MS04	809137	DM	9	18	014	0	2245	4	57	27		C	0		24.4	0		3	33 32.4	77 24.6
MS04	809138	DM	9	18	014	1	2245	4	57	27		C	[illegible]		24.4	0		3	33 32.4	77 24.6
MS04	809139	DM	9	19	070	1	21	2	7	28		C	0		24.4	0		3	33 32.0	77 24.5
MS04	809140	DM	9	19	070	1	051	2	9	29		C	0		24.4	0		3	33 31.5	77 24.7
MS04	809141	DM	9	19	070	1	139	2	10	27			0		24.4	0		3	33 31.8	77 25.0
MS04	809142	DM	9	19	070	1	215	2	11	28			0		24.4	0		3	33 31.0	77 24.8
OS04	809052	EW	9	6	506	7	751	2	13	59		C	0	26.0	15.9	36	1	2	34 52.0	75 31.1
OS04	809053	EW	9	6	506	7	857	2	78	59		C	0	26.0	15.9	36	1	2	34 51.6	75 31.7
OS04	809054	EW	9	6	300	7	1039	1	17	80	19.5	E	0	26.0	15.9	36	1	2	34 51.8	75 30.3
OS04	809055	EW	9	6	300	7	1115	1	16	76	19.5	E	0	26.0	15.9	32	3	2	34 52.1	75 30.6
OS04	809056	EW	9	6	068	7	1133	1	12	55		E	0	26.0	15.9	32	3	2	34 52.2	75 30.6
OS04	809057	EW	9	6	506	7	1257	1	85	82		G	0	26.0	15.9	32	3	2	34 51.4	75 31.0
OS04	809058	EW	9	6	072	2	1445	1	6	55		H	0	28.0	15.9	36	3	2	34 51.5	75 31.2
OS04	809059	EW	9	6	072	2	1515	1	15	79		H	0	28.0	15.9	36	3	2	34 51.5	75 31.0

Appendix 18. (Continued)

STATION	COLLECTION NUMBER	VESSEL CODE	MONTH	DAY	GEAR CODE	CATCH CODE	START TIME (GMT)	LIGHT PHASE CODE	SAMPLE DURATION (MIN)	DEPTH (M)	LIGHT PENETRATION (M)	CLOUD COVER CODE	PRECIPITATION CODE	AIR TEMPERATURE (°C)	BAROMETRIC PRESSURE (MB)	WIND DIRECTION CODE	WIND SPEED M/SEC	SEA STATE CODE	LATITUDE	LONGITUDE
0504	809060	EW	9	6	058	2	1557	1	0	64		H	0	28.0	15.9	36	3	2	34 51.7	75 31.0
0504	809061	EW	9	6	058	2	1609	1	0	64		H	0	29.0	15.9	36	3	2	34 51.8	75 31.0
0504	809062	EW	9	6	058	2	1627	1	0	57		H	0	29.0	15.9	36	3	2	34 51.4	75 31.2
0504	809063	EW	9	6	058	2	1639	1	0	57		G	0	29.0	15.9	36	3	3	34 52.1	75 31.2
0504	809064	EW	9	6	058	2	1651	1	0	55	19.5	G	0	29.0	15.9	36	3	3	34 52.0	75 31.0
0504	809066	EW	9	6	498	7	1739	1	21	64		G	0	29.0	15.9	36	3	3	34 52.0	75 30.7
0504	809067	EW	9	6	498	7	1857	1	6	82		E	0	28.0	15.9	36	3	3	34 51.6	75 30.6
0504	809068	EW	9	6	498	7	2003	1	7	82		E	0	27.0	15.9	36	3	3	34 51.7	75 30.5
0504	809069	EW	9	6	498	7	2251	1	6	73		C	0	27.0	14.6	36	4	3	34 51.5	75 31.2
0504	809070	EW	9	7	506	7	027	2	36	69		J	0	27.0	14.6	36	4	3	34 51.5	75 31.2
0504	809071	EW	9	7	498	7	151	2	20	77		J	0	26.0	14.6	36	4	3	34 51.0	75 31.7
0504	809081	DM	9	15	014	1	2139	4	14	56		I	0		19.3	4	5	2	34 51.7	75 31.3
0504	809082	DM	9	15	061	3	2233	4		62		I	0		19.3	4	5	2	34 51.6	75 31.1
0504	809083	DM	9	15	061	1	2239	4	92	60		I	0		19.3	4	5	2	34 51.8	75 31.0
0504	809084	DM	9	15	061	1	2245	4	108	63		I	0		19.3	4	5	2	34 51.8	75 31.0
0504	809085	DM	9	15	061	0	2251	4	207	61		I	0		19.3	4	5	2	34 51.9	75 30.9
0504	809086	DM	9	15	041	3	2303	4		60		I	0		19.3	4	5	2	34 51.9	75 31.1
0504	809087	DM	9	15	041	1	2309	4	153	58		I	0		19.3	4	5	2	34 52.0	75 30.9
0504	809088	DM	9	15	041	3	2309	4		56		I	0		19.3	4	5	2	34 52.1	75 30.8
0504	809089	DM	9	15	041	0	2333	4	155	55		I	0		19.3	4	5	2	34 51.7	75 31.2
0504	809090	DM	9	15	014	0	2339	4	7	52		I	0		19.3	4	5	2	34 51.7	75 31.4
0504	809091	DM	9	15	014	1	2339	4	7	52		I	0		19.3	0		2	34 51.7	75 31.4
0504	809092	DM	9	15	014	1	2339	4	7	52		I	0		19.3	0		2	34 51.7	75 31.4
0504	809093	DM	9	16	069	3	345	2		64		I	0		19.3	0		3	34 52.1	75 31.4
0504	809094	DM	9	16	014	1	715	2	45	63		I	0		19.3	0		3	34 51.4	75 30.6
0504	809095	DM	9	16	061	1	927	3	92	62		I	0		19.3	0		3	34 51.8	75 30.9
0504	809096	DM	9	16	061	0	933	3	140	58		I	0		19.3	0		3	34 51.7	75 31.1
0504	809097	DM	9	16	061	0	945	3	103	65		I	0		19.3	0		3	34 51.5	75 31.2
0504	809098	DM	9	16	061	0	951	3	110	70		I	0		19.3	0		3	34 51.6	75 30.9
0504	809099	DM	9	16	041	1	1003	3	110	64		I	0		19.3	0		3	34 51.8	75 30.8
0504	809100	DM	9	16	014	1	1003	3	55	63		I	0		19.3	0		3	34 51.8	75 30.9

Appendix 19. Species list of invertebrates and algae collected in two dredge samples at station IS04 for summer 1980.

Porifera

Chondrilla nucula
Dictyociona adioristica
Demospongea A
Geodia gibberosa
Haliclona canaliculata
Haliclona loosanoffi
Homaxinella rudis
Myrmekioderma sp. A
Subertidae sp. A
Tenaciella obliqua
Tethya seychellensis

Cnidaria

Actiniaria A
Athecata A
Eudendrium carneum
Haliphanella luciae
Leptogorgia virgulata
Oculina arbuscula
Telesto fruticulosa
Titanideum fravefeldii

Mollusca

Aligena elevata
Anachis lafresnayi
Arca imbricata
Arcopsis adamsi
Barbatia domingensis
Calliostoma euglyptum
Chama congregata
Chione grus
Crepidula fornicata
Diodora cayenensis
Lithophaga bisulcata
Lyonsia beana
Nassarius albus
Ostrea equestris
Pisania tincta
Pleurobranchaea hedgpethi
Pododesmus rudis
Pteria colymbus
Urosalpinx sp. A
Vermicularia knorrii

Decapoda

Dardanus fucosus
Latreutes parvulus
Macrocoeloma trispinosum nodipes
Neopanope sayi
Neopontonides beaufortensis
Pagurus pollicaris
Pelia mutica
Pilumnus sayi
Pinnixia sp. A
Pseudomedeaus agassizii
Synalpheus townsendi

Bryozoa

Caulibugula pearsei
Hippoporina verrilli
Parasmittina spathulata

Echinodermata

Amphioda pulchella
Amphiuridae C
Arbacia punctulata
Ophiothrix angulata

Ascidiacea

Aplidium constellatum
Ascidia interrupta
Styela partita

Algae

Corallina cubensis
Dictyota dichotoma
Gracilaria mammillaris
Kallymenia perforata
Lithophyllum subtenellum
Lobophora variegata
Sargassum filipendula
Soliera tenera

Appendix 20. Species list of invertebrates and algae collected in two dredge samples at station MS04 for summer 1980.

Porifera

Aplysilla sulphurea
Cinachyra alloclada
Geodia gibberosa
Higginsia sp. A
Iotrochota birotulata
Keratosa A
Ircinia felix
Leucetta floridana
Lissodendoryx isodictyalis
Lissodendoryx sigmata
Lissodendoryx sp. A
Merriamium tortugasensis
Myxillidae A
Microciona sp. A
Placospongia carinata
Pseudaxinella rosacea
Pseudaxinella sp. A
Spirastrella coccinea

Cnidaria

Aglaophenia trifida
Calliactis tricolor
Leptogorgia virgulata
Lophogorgia hebes
Monostaechas quadridens
Oculina arbuscula
Scleractinia A
Siderostrea siderea
Telesto fruticulosa
Thesea sp.
Titanideum frauenfeldii

Mollusca

Aequipecten muscosus
Aligena elevata
Americardia media
Anadara floridana
Anadara notabilis
Arca imbricata
Arca zebra
Barbatia candida
Botula fusca
Chama congregata
Chione grus
Chione latilirata
Conus floridanus
Coralliophila caribaea

Mollusca (Continued)

Crassostrea virginica
Crepidula aculeata
Diodora cavenensis
Gastrochaena hians
Hiatella arctica
Laevicardium pictum
Lithophaga antillarum
Lithophaga aristata
Lithophaga bisulcata
Lopha frons
Lyonsia beana
Lyropecten nodosus
Malleus candeanus
Modiolus americanus
Murex florifer dilectus
Nassarius albus
Neodrillia cydia
Octopus joubini
Ostrea equestris
Pinctada imbricata
Pisania tincta
Pteria colymbus
Seila adamsi
Spengleria rostrata
Spondylus americanus
Vermicularia knorrii

Decapoda

Alpheus heterochaelis
Batrachonotus fragosus
Dardanus fucosus
Galathea rostrata
Hypoconcha sabulosa
Lysmata rathbunae
Lysmata sp.
Megalobrachium soriatum
Mithrax forceps
Mithrax (Mithrax) pleuracanthus
Mithrax sp. A
Munida iris iris
Osachila semileuis
Palicus alternatus
Periclemenes americanus
Pilumnus sayi
Pitho iherminieri
Podochela riisei
Pseudomedaeus agassizii

Appendix 20 (Continued)

Decapoda (Continued)

Sicyonia sp. A
Stenorhyncus seticornis
Synalpheus townsendi
Tyche emarginata

Bryozoa

Antropora tincta
Celleporaria albirostris
Celleporaria magnifica
Hippaliosina rostrigera
Parasmittina spathulata
Stylopoma informata

Echinodermata

Amphiodia pulchella
Amphiuridae A
Amphiuridae C
Arbacia punctulata
Astrophyton muricatum
Echinaster serpentarius
Echinaster sp. A
Eucidaris tribuloides
Goniaster tesselatus
Lytechinus variegatus
Ocnus pygmaeus
Ophiactis algicola
Ophiactis savignyi
Ophiopsila riisei
Ophiostigma isocanthum
Ophiothrix angulata
Thyone inermis
Thyone pseudofusus

Ascidiacea

Ascidiacea A
Ascidiacea G
Clavelina gigantea
Didemnum candidum
Eudistoma olivaceum
Molgula occidentalis
Polyandrocarpa tincta
Styela partita
Styela plicata

Algae

Agardhinula browneae
Amphiroa beauvoisii
Ascophyllum nodosum
Botryocladia occidentalis
Champia parvula
Chrysymenia enteromorpha
Cladophora crystallina
Codium carolinianum
Codium isthmocladum
Codium taylori
Corallina cubensis
Dictyota dichotoma
Dictyopteris hoytii
Eucheuma isiforme
Galaxaura obtusata
Gelidium pussillum
Gloioderma atlantica
Gracilaria mammillaris
Halymenia agardhii
Halymenia floresia
Halymenia floridana
Heterosiphonia wurdemanni
Kallymenia perforata
Laurencia corallopsis
Lobophora variegata
Meristiella gelidium
Mesophyllum floridanum
Micropeuce mucronata
Sargassum filipendula
Sargassum natans
Soliera tenera
Spatoglossum schroederi
Sporochnus pedunculatus
Spyridia filamentosa
Trematocarpus papenfussi
Udotea cyathiformis
Zonaria tournefortii

Appendix 21. Species list of invertebrates and algae collected in two dredge samples at station OS04 for summer 1980.

Cnidaria

Hydroidea A
Hydroidea B
Lophogorgia sp.

Mollusca

Arcopsis conradiana
Barbatia candida
Barbatia domingensis
Triphora nigrocincta

Decapoda

Galathea rostrata
Pirnixa sp. B
Pseudomedeaus agassizii
Synalpheus townsendi

Bryozoa

Aplousina gigantea
Cleidochasma porcellanum

Echinodermata

Amphiodia pulchella
Amphiuridae C
Ophiactis algicola
Ophiothrix angulata

Algae

Lithophyllum subtenellum
Neogoniolithon accretum
Squamariaceae A

Appendix 22. Species list of invertebrates and algae collected in six trawl samples at station MS04 for summer 1980.

Porifera

Haliclona oculata
Leucosoleniidae A
Lissodendoryx sp. A
Merriamium tortugasensis
Mycale cecilia
Verongula ardis

Cnidaria

Aglaophenia trifida
Eudendrium carneum
Leptogorgia virgulata
Lophogorgia hebes
Monostaechas quadridens
Phyllangia americana
Thesea sp.
Thyroscyphus marginatus

Mollusca

Aligena elevata
Arca zebra
Calliostoma pulchrum
Chama congregata
Diodora cayenensis
Hiatella arctica
Lyonsia beana
Modiolus americanus
Musculus lateralis
Pododesmus rudis
Pteria colymbus
Turbonilla sp. A

Decapoda

Macrocoeloma trispinosum
Metapenaeopsis goodei
Mithrax (Mithrax) pleuracanthus
Pilumnus sayi
Portunus ordwayi
Scyllarides nodifer

Bryozoa

Celleporaria albirostris
Celleporaria magnifica
Diaperoecia floridana
Stylopoma informata

Echinodermata

Arbacia punctulata
Astrophyton muricatum
Echinaster serpentarius
Echinaster sp. A
Eucidaris tribuloides
Lytechinus variegatus
Ocnus pygmaeus

Ascidiacea

Clavelina gigantea
Clavelina sp. A
Didemnum candidum
Distaplia bermudensis
Molgula occidentalis
Polyandrocarpa tincta
Styela plicata

Algae

Agardhiella browneae
Botryocladia occidentalis
Cladophora crystallina
Codium isthmocladum
Corallina cubensis
Chrysymenia enteromorpha
Dictyopteris hoytii
Dictyota cervicornis
Galaxaura obtusata
Gracilaria mammillaris
Halymenia agardhii
Halymenia floresia
Halymenia floridana
Lobophora variegata
Mesophyllum floridanum
Micropeuce mucronata
Polysiphonia denudata
Rhodophyta A
Sargassum filipendula
Soliera tenera
Spatoglossum schroederi
Sporochnus pedunculatus
Spyridia filamentosa

Appendix 23. Mean weights (shown as grams ± 1 SE) of major taxonomic groups collected using a rock dredge (N = 2) and trawl (N = 6) at IS04, MS04, and OS04 during summer 1980 sampling effort.

	Dredge (IS04)	Dredge (MS04)	Dredge (OS04)	Trawl (MS04)
Porifera	76.17 ± 62.84	216.21 ± 304.01	0	111.76 ± 42.78
Octocorallia	165.25 ± 5.99	216.26 ± 299.76	0.005 ± 0.007	11.47 ± 5.76
Scleractinia	2560.00 ± 3450.00	202.31 ± 284.69	0	7.86 ± 4.99
Mollusca	393.98 ± 125.20	2120.00 ± 2620.00	0.67 ± 0.33	307.67 ± 77.59
Decapoda	2.97 ± 1.75	6.08 ± 7.91	0.085 ± 0.049	56.59 ± 42.60
Echinodermata	9.02 ± 0.30	261.07 ± 342.93	0.13 ± 0.18	213.02 ± 145.55
Ascidiacea	113.32 ± 114.52	154.65 ± 207.35	0	87.11 ± 25.36
Algae	1.23 ± 1.74	2675.94 ± 2805.89	0.005 ± 0.007	4015.95 ± 2312.53

Appendix 24. Species list of invertebrates and algae collected in five airlift suction samples at station IS04 for summer 1980.

Porifera

Haliclona sp. A
Tenaciella obliqua

Polychaeta

Cistenides gouldii
Dorvillea sociabilis
Eulalia macroceros
Harmothoe aculeata
Hydroides dianthus
Hydroides uncinata
Lepidonotus variabilis
Loimia medusa
Lumbrineris latreilli
Marphysa sp.
Odontosyllis fulgurans
Polycirrus sp.
Polydora caeca
Polydora plena
Protula tubularia
Sabellaria floridensis
Sabellaria vulgaris beaufortensis
Sthenelais boa

Mollusca

Abra aequalis
Acteocina candei
Anachis lafresnayi
Anachis obesa
Anachis (Suturoglypta) iontha
Anomia simplex
Arcopsis adamsi
Aspella senex
Chione grus
Colubraria lanceolata
Corbula barrattiana
Epitonium argulatum
Gouldia cerina
Laevicardium multilineatum
Marginellidae A
Mitrella lunata
Modiolus americanus
Musculus lateralis
Nassarius albus
Nucula proxima
Pisania tincta
Pitar fulminatus

Mollusca (Continued)

Pteria colymbus
Pyrgocythara metria
Rissoina catebyana
Seila adamsi
Tellina aequistriata
Triphora nigrocincta
Turbonilla sp. A
Turbonilla sp. B
Urosalpinx sp. A
Vermicularia knorrii

Peracarida

Elasmopus sp. B
Erichthonius brasiliensis
Gammaropsis sp.
Lembos smithi
Lembos unicornis
Maera williamsi
Melita appendiculata
Melitidae undet.
Photis sp.
Tanaidacea A
Unciola laminosa

Decapoda

Galathea rostrata
Heterocrypta granulata
Lysmata sp.
Macrocoeloma camptocerum
Megalobrachium soriatum
Micropanope sp.
Neopontonides beaufortensis
Pelia mutica
Pinnotheres sp. A
Pseudomedaeus agassizii
Sicyonia laevigata
Sicyonia sp. A

Echinodermata

Amphiodia pulchella
Amphiuridae A
Amphiuridae C
Arbacia punctulata
Ophiothrix angulata

Appendix 25. Species list of invertebrates and algae collected in five airlift suction samples at station MS04 for summer 1980.

Porifera

Cinachyra alloclada
Hemectyon pearsei
Homaxinella waltonsmithi
Hymeniacidon heliophila
Ircinia campana
Keratosa A

Polychaeta

Ceratonereis versipedata
Cirratulus sp. A
Eulalia sanguineae
Eunice filamentosa
Eunice vittata
Eurythoe complanata
Filograna implexa
Glycera tesselata
Harmothoe aculeata
Hydroides crucigera
Hydroides sp. A
Hydroides sp. B
Loimia medusa
Lumbrineris inflata
Marphysa sp.
Odontosyllis fulgurans
Platynereis dumerillii
Polycirrus carolinensis
Polydora commensalis
Pomatoceros americanus
Subadyte pellucida
Syllis alternata
Syllis hyalina
Syllis spongicola
Websterinereis tridentata

Mollusca

Arca zebra
Chione grus
Chione intrapurpurea
Gastrochaena hians
Gouldia cerina
Lyonsia beana
Mangelia (Glyphoturris) rugirima
Marginella roscida
Modiolus americanus
Montacuta sp. A
Musculus lateralis

Mollusca (Continued)

Nassarius albus
Nassarius glypto
Pisania tincta
Pseudochama radians
Strombiformis bilineatus
Tellina sp. A
Tellina versicolor
Thracia sp. A
Turbonilla sp. A
Varicorbula operculata

Pycnogonida

Anoplodactylus insignis

Peracarida

Accalanthura crenulata
Ampelisca agassizi
Ampithoe sp. A
Ampithoidae A
Ampithoidae undet.
Elasmopus sp. B
Erichsonella filiformis
Erichthonius brasiliensis
Heterophlias seclusus
Lembos unicornis
Leucothoe spinicarpa
Liljeborgia sp. A
Melita appendiculata
Melita sp. A
Melphidippidae A
Paracerceis caudata
Phylocarida A
Podocerus sp. A
Protomedia sp. A
Tanaidacea B
Unciola laminosa

Decapoda

Alpheus formosus
Ethusa mascarone americana
Macrocoeloma trispinosum nodifer
Micropanope sp.
Mithrax (Mithraculus) forceps
Mithrax sp. A
Pitho lherminieri

Appendix 25 (Continued)

Decapoda (Continued)

Pontoniinae A
Portunus orwayi
Sicyonia laevigata

Echinodermata

Amphiodea pulchella
Amphiuridae A
Amphiuridae B
Amphiuridae C
Arbacia punctulata
Eucidaris tribuloides
Lytechinus variegatus
Ophiactis algicola
Ophiocnida scabriuscula
Ophiolepidinae A
Ophiostigma isocanthum
Ophiothrix angulata
Pseudothyone belli

Ascidiacea

Aplidium sp. C

Algae

Amphiroa beauvoisii
Cladophora crystallina
Codium isthmocladum
Codium taylori
Corallina cubensis
Dictyopteris hoytii
Dictyota cervicornis
Dictyota dichotoma
Eucheuma isiforme
Galaxaura obtusata
Gracilaria mammillaris
Halymenia agardhii
Halymenia floridana
Kallymenia perforata
Laurencia corallopsis
Lobophora variegata
Sargassum filipendula
Soliera tenera
Struvea pulcherrima
Zonaria tournefortii

Appendix 26. Species list of invertebrates and algae collected in five Smith-McIntyre grab samples at station OS04 for summer 1980.

Porifera

Placamilla illgi

Polychaeta

Aglaophamus verrilli
Antinoella sarsi
Aricidea cerrutii
Armandia maculata
Chone americanus
Drilonereis longa
Eulalia sanguinea
Filograna implexa
Glycera americana
Glycera papillosa
Glycera tesselata
Goniada teres
Harmothoe aculeata
Hydroides sp. A
Lumbrineris latreilli
Nephytys incisa
Onuphis nebulosa
Opisthodonta sp.
Paraonis sp.
Paraprionospio pinnata
Phyllodoce sp. A
Pionosyllis cf. uraga
Platynereis dumerillii
Pomatoceros americanus
Potamilla sp. A
Prionospio sp. B
Protodorvillea kefersteini
Protula tubularia
Syllis cornuta
Syllis hyalina
Syllis spongicola
Travisia parva

Mollusca

Abra aequalis
Abra lioica
Arcopsis conradiana
Atys caribaea
Corbula dietziana
Crassinella lunulata
Crassinella sp. A
Cylichna verrillii

Mollusca (Continued)

Diplodonta sp. A
Epitonium krebsii
Gouldia cerina
Mangelia (Glyphoturris) rugirima
Marginella virginiana
Nassarina glypta
Nassarius albus
Plicatula gibbosa
Semele bellastriata
Semele nuculoides
Semele purpurascens
Solariella sp. A
Tellina versicolor
Tricolia thallassicola
Turbonilla sp. A
Vermicularia knorrii

Peracarida

Erichthonius brasiliensis
Horoloanthura irpex
Leptocheirus sp. B
Liljeborgia sp. A
Panathura formosa
Photis sp.
Unciola dissimilis
Unciola serrata

Decapoda

Heterocrypta granulata
Hypoconcha sabulosa
Munida iris iris

Echinodermata

Amphiuridae A
Amphiuridae C
Arbacia punctulata
Ophiothrix angulata

Algae

Cyanophyta A
Halymenia sp. A
Mesophyllum floridanum

Appendix 27. Species diversity (H'), species evenness (J'), and species richness for demersal fishes caught by trawl in summer 1980.

Station	Collection Number	Number Individuals	Number Species	H'	J'	Species Richness
IS04						
Night	809107	1111	8	1.18	0.39	1.00
Night	809108	752	9	1.61	0.51	1.21
Night	809109	1329	8	0.95	0.32	0.97
Day	809117	473	4	1.20	0.60	0.49
Day	809118	295	5	1.62	0.70	0.70
Day	809119	157	3	1.52	0.96	0.40
MS04						
Night	809140	249	12	2.55	0.71	1.99
Night	809141	726	18	2.09	0.50	2.58
Night	809142	981	19	2.14	0.50	2.61
Day	809128	235	8	0.67	0.22	1.28
Day	809129	6	4	1.79	0.90	1.67
Day	809130	430	9	0.56	0.18	1.32

Appendix 28. Abundance by station of fish species captured by trawl (N = 6 per station) off North Carolina for summer 1980. There were no trawls at the outer shelf station (OS04).

		STATION	
Family	Species	IS04	MS04
Rajidae	*Raja eglanteria*	1	2
Dasyatidae	*Dasyatis centroura*	0	1
	Gymnura altavela	1	0
Clupeidae	*Sardinella aurita*	16	7
	Sardinella sp.	0	1
Engraulidae	*Anchoa cubana*	336	0
	Anchoa lyolepis	116	0
	Anchoa hepsetus	252	0
	Engraulis eurystole	65	0
Synodontidae	*Synodus foetens*	5	0
	Synodus intermedius	0	1
Batrachoididae	*Porichthys plectrodon*	0	4
Ophidiidae	*Ophidion holbrooki*	0	11
Serranidae	*Centropristis ocyurus*	0	8
	Centropristis striata	1	16
	Serranus phoebe	0	4
Priacanthidae	*Priacanthus arenatus*	5	19
Apogonidae	*Apogon pseudomaculatus*	0	195
	Astrapogon alutus	0	1
Echeneidae	*Echeneis naucrates*	0	1
Pomatomidae	*Pomatomus saltatrix*	20	0
Rachycentridae	*Rachycentron canadum*	0	3
Carangidae	*Decapterus punctatus*	9	33
	Trachurus lathami	3	0
	Caranx bartholomaei	0	1
Lutjanidae	*Rhomboplites aurorubens*	0	2

Appendix 28 (Continued)

Family	Species	STATION IS04	STATION MS04
Haemulidae	Haemulon aurolineatum	0	145
	Haemulon plumieri	0	19
Sparidae	Pagrus pagrus	0	2
	Diplodus holbrooki	0	50
	Stenotomus aculeatus	1799	1361
	Calamus leucosteus	0	13
Sciaenidae	Cynoscion regalis	27	0
	Equetus umbrosus	0	69
	Micropogonias undulatus	1314	0
	Menticirrhus americanus	5	0
	Leiostomus xanthurus	978	0
	Larimus fasciatus	1	0
	Equetus lanceolatus	0	2
Labridae	Hemipteronotus novacula	0	1
Scaridae	Cryptotomus roseus	0	1
Stromateidae	Peprilus triacanthus	709	0
Triglidae	Prionotus carolinus	2	5
Bothidae	Etropus crossotus	1	0
	Syacium papillosum	0	1
	Paralichthys dentatus	2	0
Cynoglossidae	Symphurus plagiusa	1	0
Balistidae	Monacanthus hispidus	0	681
	Aluterus monoceros	0	2
	Aluterus schoepfi	0	6
Tetraodontidae	Sphoeroides dorsalis	1	0
Diodontidae	Chilomycterus schoepfi	0	1
	Diodon hystrix	0	1
	Total Number of Families	16	21
	Total Number of Species	24	35
	Total Number of Individuals	5670	2672

Grand Total Number of Families	27
Grand Total Number of Species	53
Grand Total Number of Individuals	8342

Appendix 29. Reduced temperature and dissolved oxygen data by depth at three stations off North Carolina for summer 1980.

	Depth (m)	Temperature (°C)	Dissolved Oxygen (ml l^{-1})
Station IS04			
(Inner Shelf, Cape Hatteras)	0	26.2	4.92
	10	24.3	4.91
	18	18.0	5.37
Station MS04			
(Middle Shelf, Cape Fear)	0	27.6	4.78
	10	26.3	4.88
	20	25.8	4.78
Station OS04			
(Outer Shelf, Raleigh Bay)	0	29.0	4.56
	10	28.1	4.64
	20	25.9	4.59
	30	23.9	4.41
	40	21.7	3.96
	*49	24.0	4.04
	*59	21.0	4.25
	*69	19.7	4.16

* A second hydrocast was made for the bottom three depths.

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