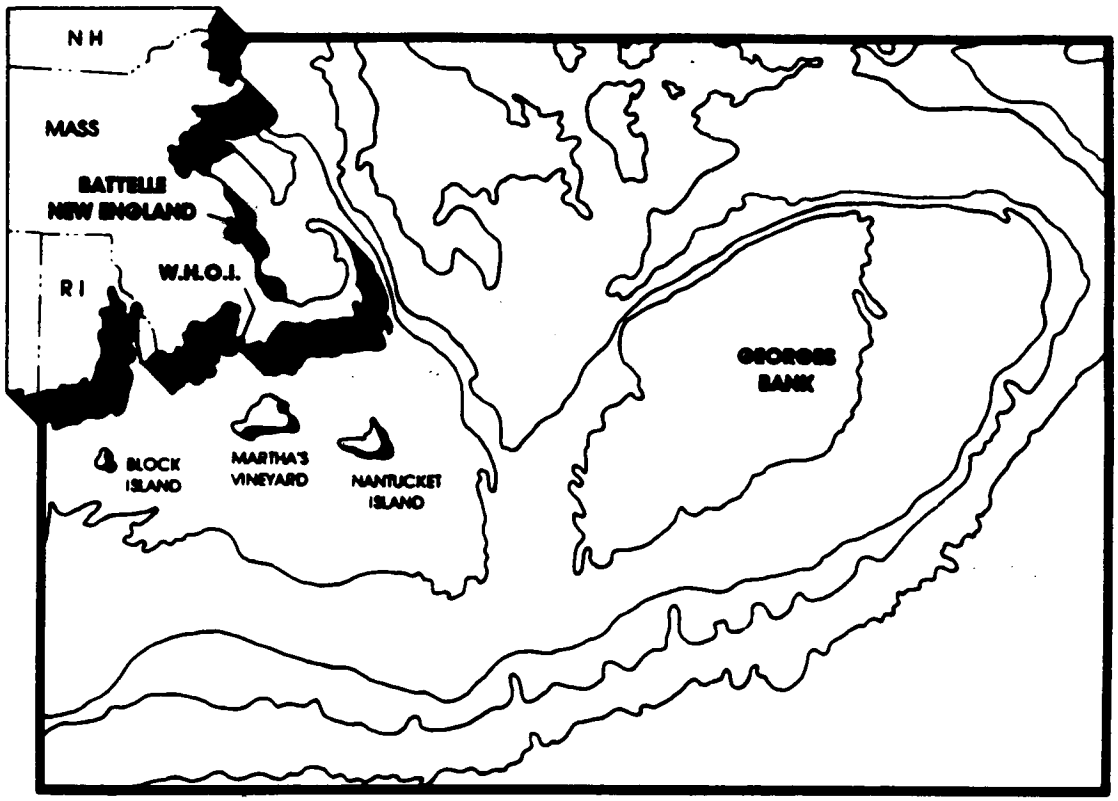
Georges Bank Benthic Infauna Monitoring Program

VOLUME 3 APPENDICES



PREPARED BY

Battelle New England
Marine Research Laboratory
Duxbury, Massachusetts

and

Woods Hole
Oceanographic Institution
Woods Hole, Massachusetts

GEORGES BANK BENTHIC INFAUNA MONITORING PROGRAM

FINAL REPORT

FOR THIRD YEAR OF SAMPLING

Prepared for

UNITED STATES DEPARTMENT OF THE INTERIOR

MINERALS MANAGEMENT SERVICE

Washington, D.C. 20240

under Contract No. 14-12-0001-29192

Battelle New England Marine Research Laboratory
397 Washington Street, Duxbury, Massachusetts 02332
and
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

April 15, 1985

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15. Supplementary Notes

A three volume set: Vol. 1 Final Executive Summary, Vol.2 Final Report, Vol.3 Appendices

16. Abstract

Concerns about the potential effects of oil and gas exploration activities on Georges Bank led to the initiation of a monitoring program in July 1981. The program included sampling of the benthic communities near, upcurrent, and downcurrent of the drilling rigs, analysis of bottom photographs for epifauna and microtopography, trawl collections, total organic carbon and sediment grain size analysis. Six replicate samples were collected with a 0.04-m^2 Van Veen grab sampler at 46 stations on a seasonal basis and were live-sieved through stacked 500-µm and 300-µm screens. Twenty-nine stations were positioned in a tight radial array around a rig at 80 m. A second group of three stations were near a rig site at 140 m. The remaining stations covered a broad expanse of the Bank and nearby areas of potential deposition of drilling materials. Additional aspects of this program included a detailed life history analysis of 23 dominant species, and a study which linked fish feeding with benthic production. Results from the 12 biological collections indicated little heterogeneity within stations, with good replication between samples. A strong relationship between faunal composition and both sediment type and depth was indicated by cluster analysis. Little seasonal variation was detected, but some annual differences were seen using cluster analysis and correspondence analysis. Much of the variation in the abundance of several amphipod species could be explained by recruitment and mortality, but patterns in the density of polychaete species were more difficult to explain. Dominant species remained fairly constant at each station over the three-year period. Biomass varied over time and among stations, with a significant increase at some stations between the first and second years. Bottom photographs revealed depth-related patterns of microtopography and confirmed the patchy distribution of the sand dollar, Echinarachnius parma, as documented from the grab samples. Total organic carbon was correlated with sediment grain size, with sandy sediments having values below 0.20 percent and predominantly silt-clay sediments having markedly higher values.

Eight dry wells have been drilled to date in the Lease Sale 42 area. No biological impacts which could be attributed to drilling activities were detected at any station, including the site-specific array in Block 312, the three stations near the drill rig in Block 410, or any regional station monitored in this program.

17. Originator's Key Words	18. Availability Statement
Georges Bank, exploratory drilling, benthic infauna, community structure, life history analysis, benthic production, sediment texture, total organic carbon.	Availability Unlimited

19. U. S. Security Classif. of the Report	20. U. S. Security Classif. of This Page	21. No. of Pages	22. Price

LIST OF APPENDICES

APPENDIX A

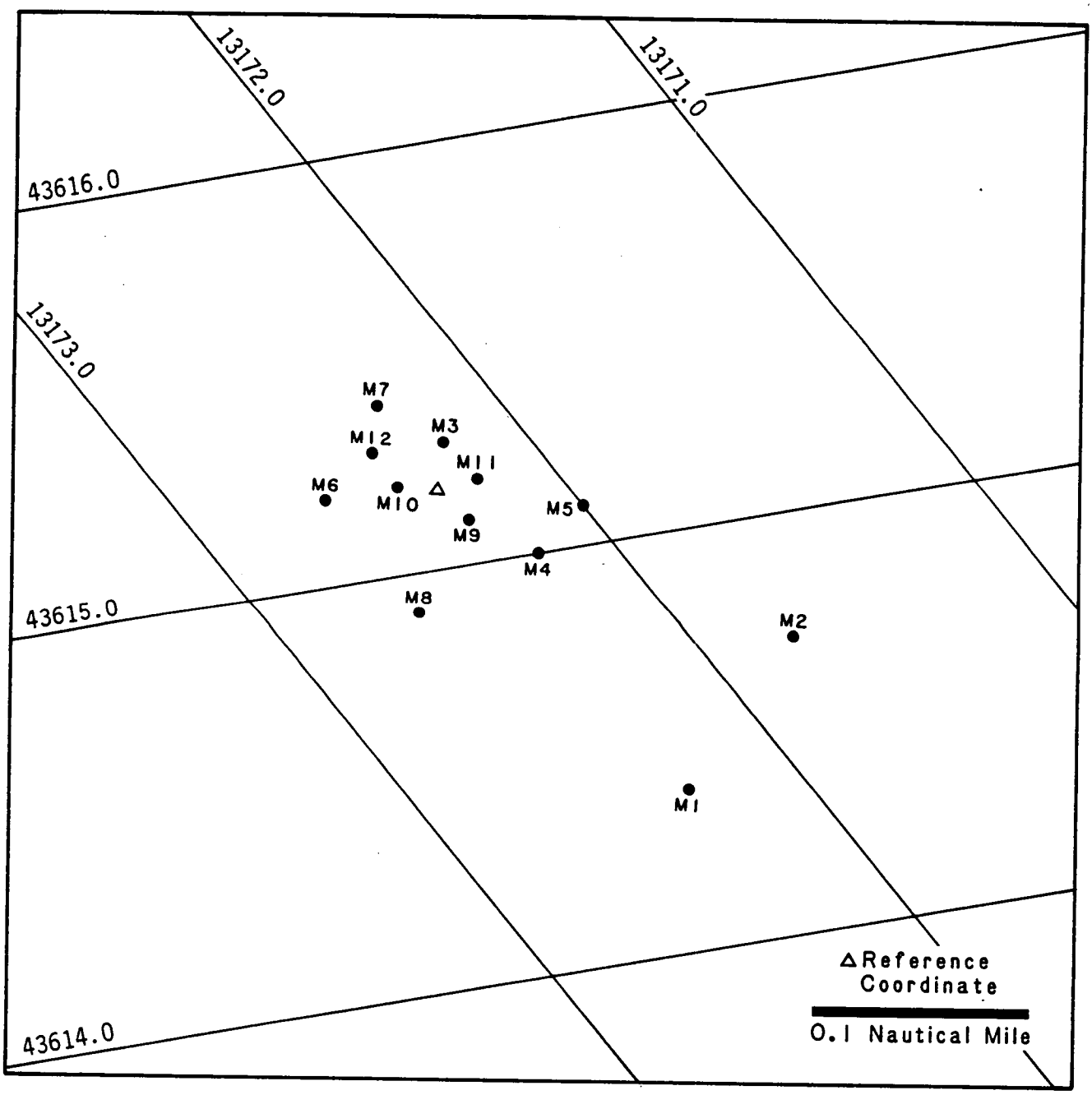

Figure A-1. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 1 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

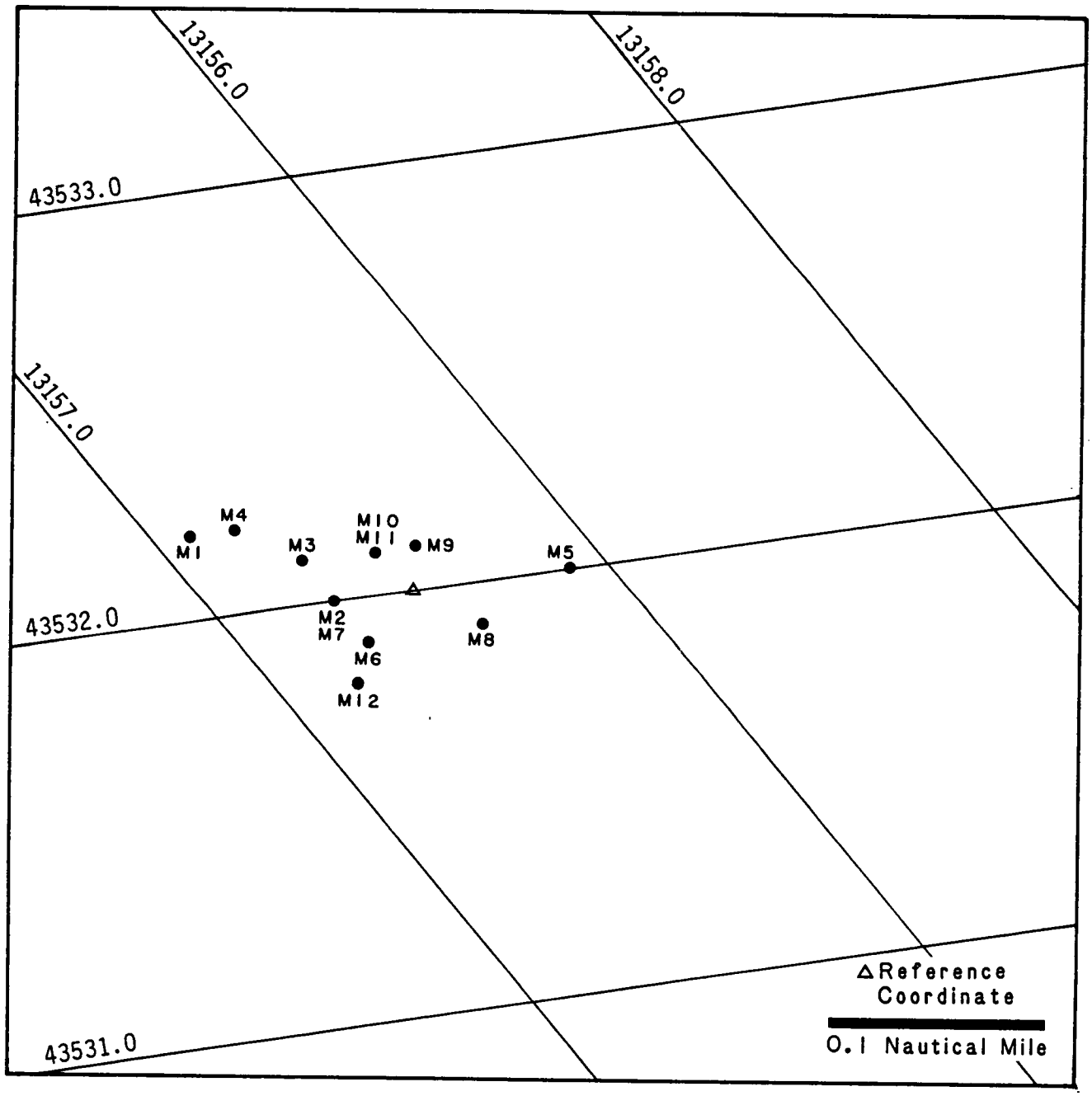

Figure A-2. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 2 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

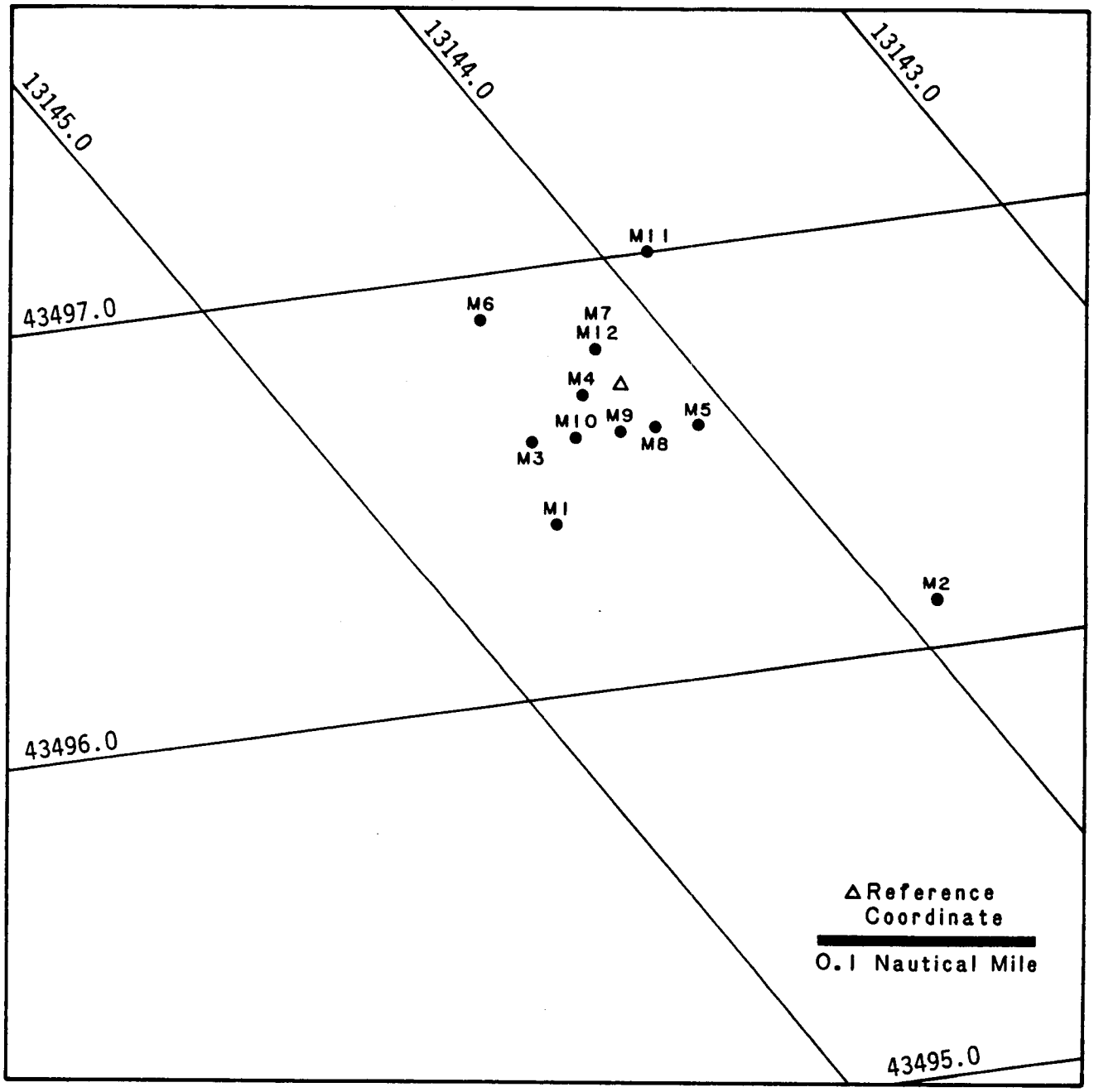

Figure A-3. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 3 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

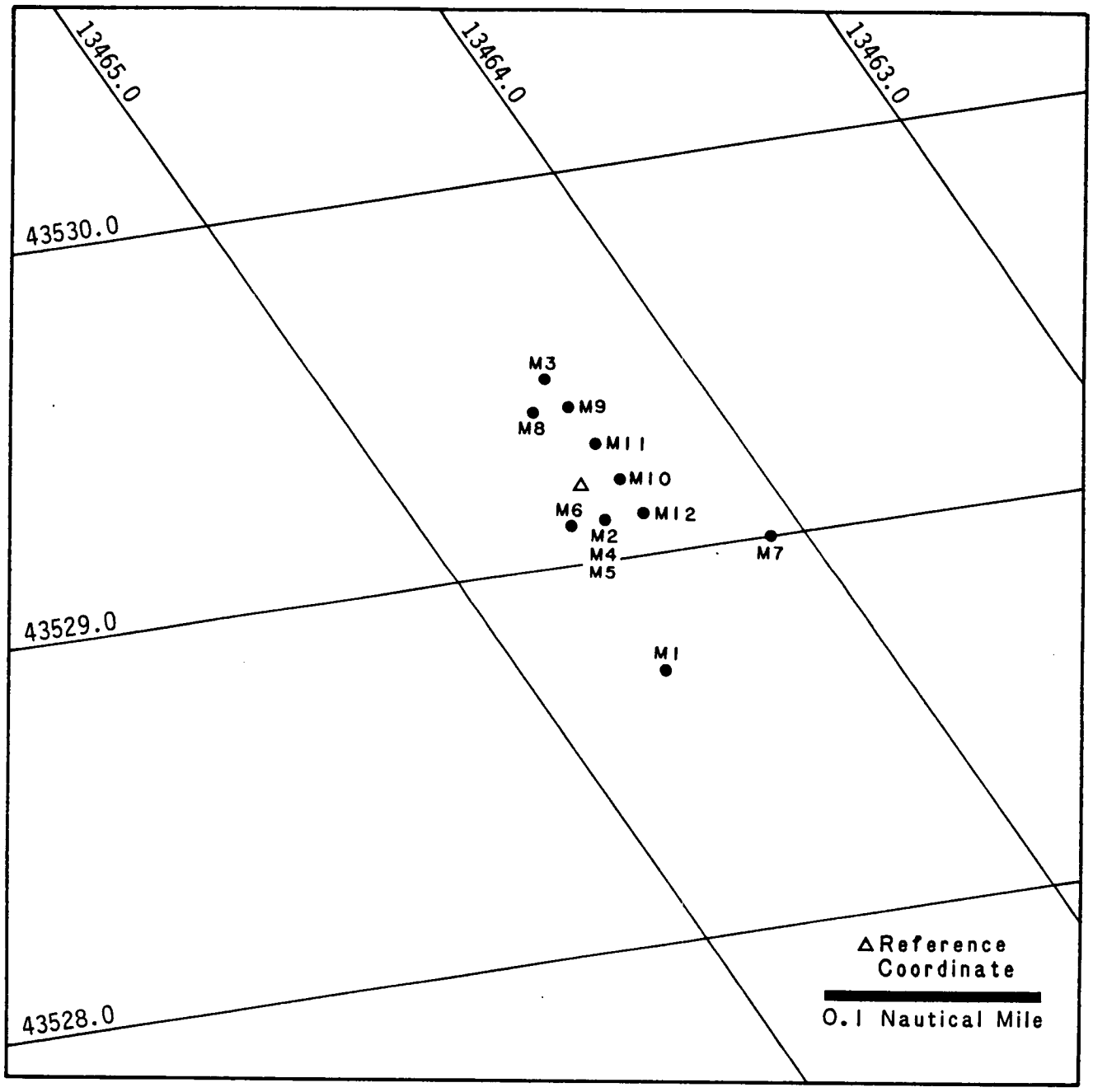

Figure A-4. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 4 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

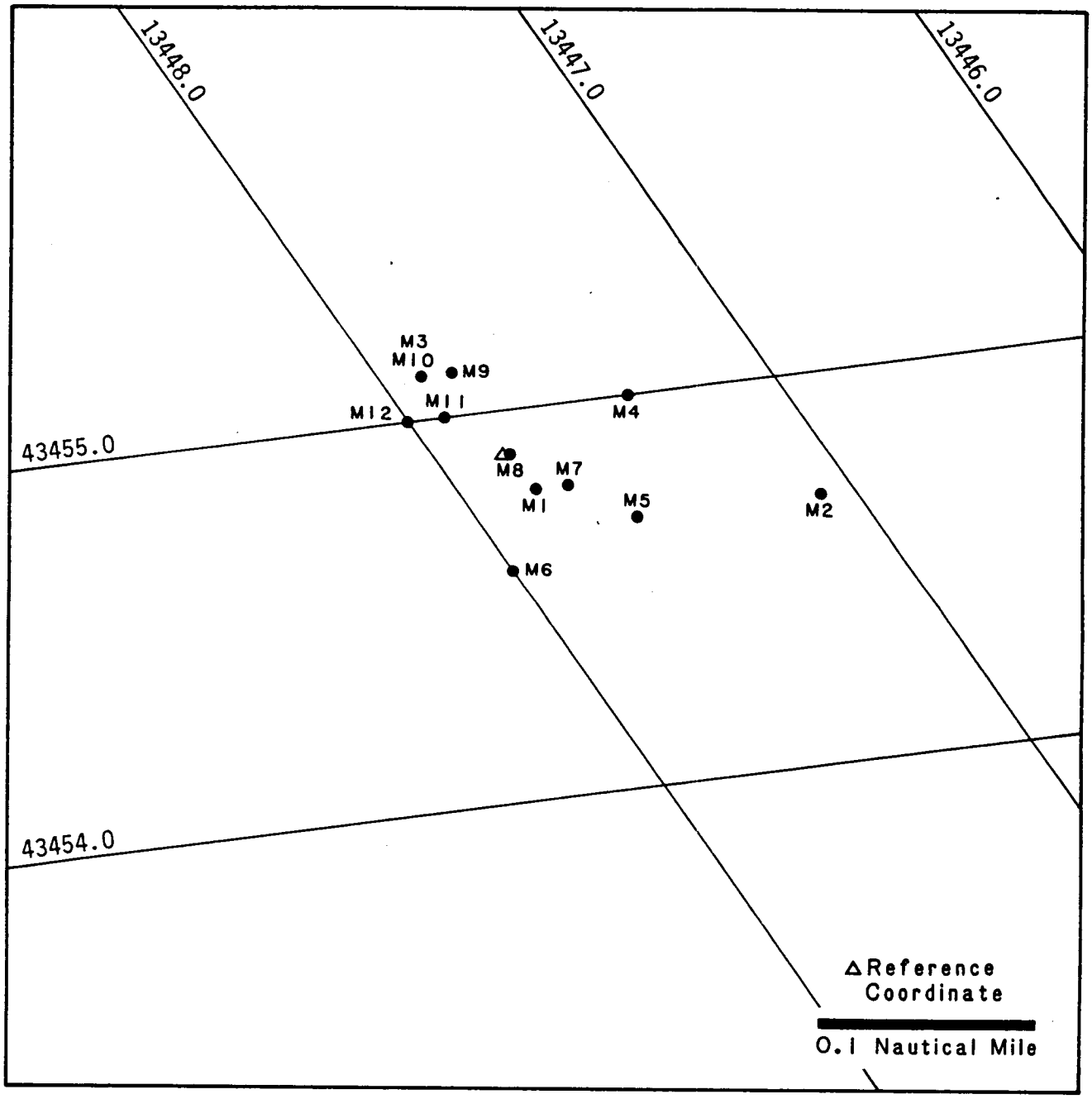

Figure A-5. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 5 (Site-Specific Station 5-1) plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

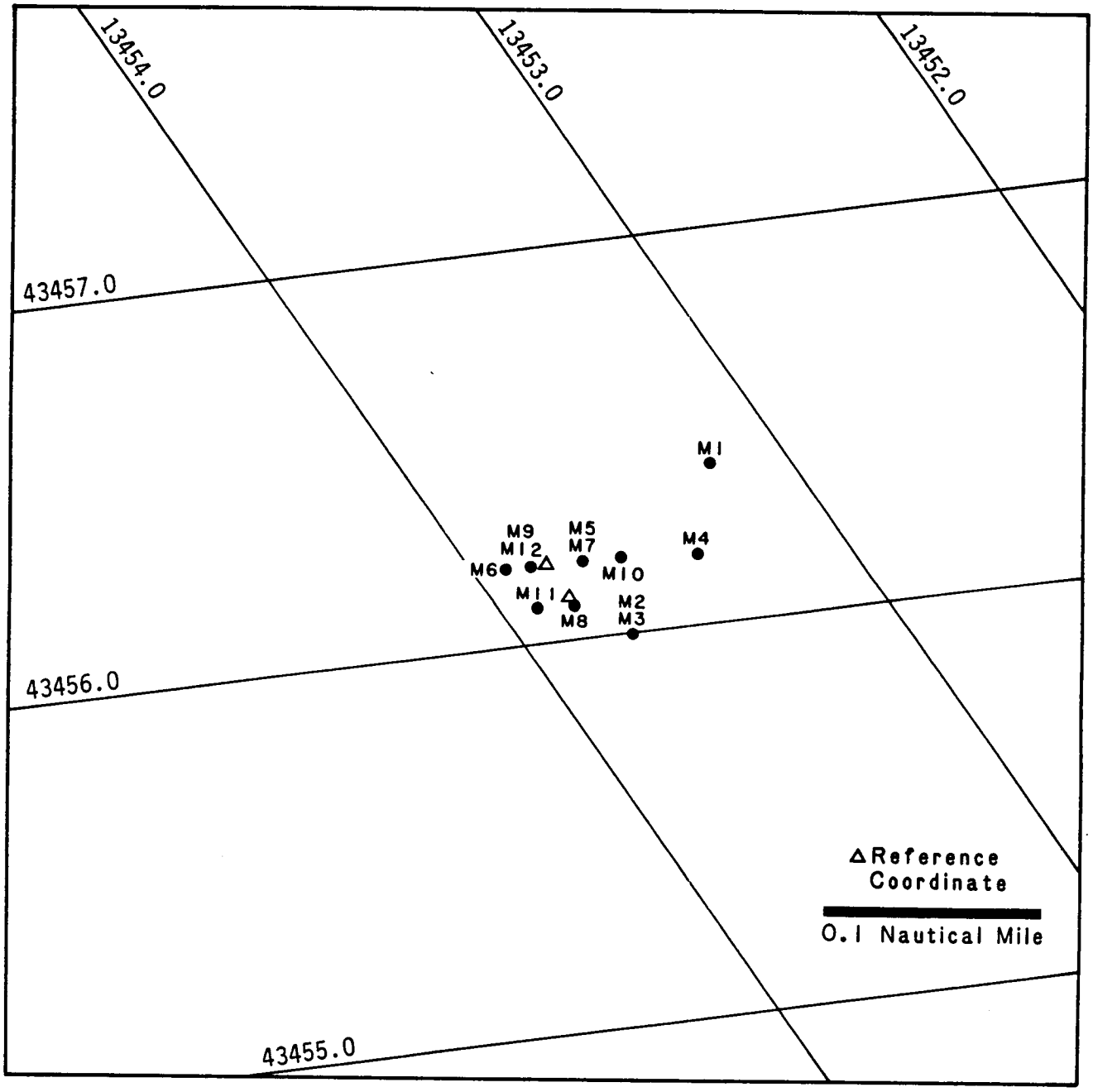

Figure A-6. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Site-Specific Station 5-18 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

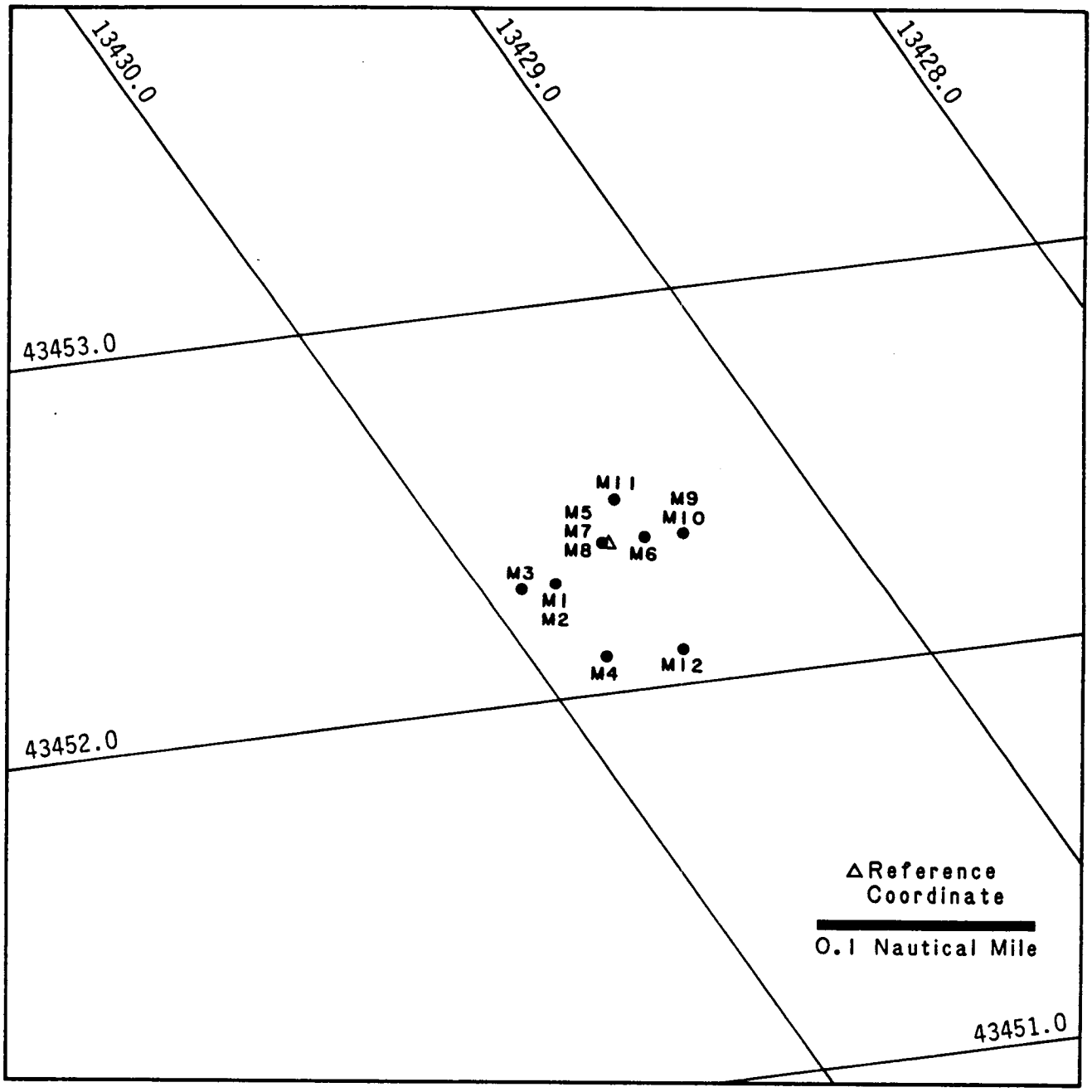

Figure A-7. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Site-Specific Station 5-28 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981(M1).

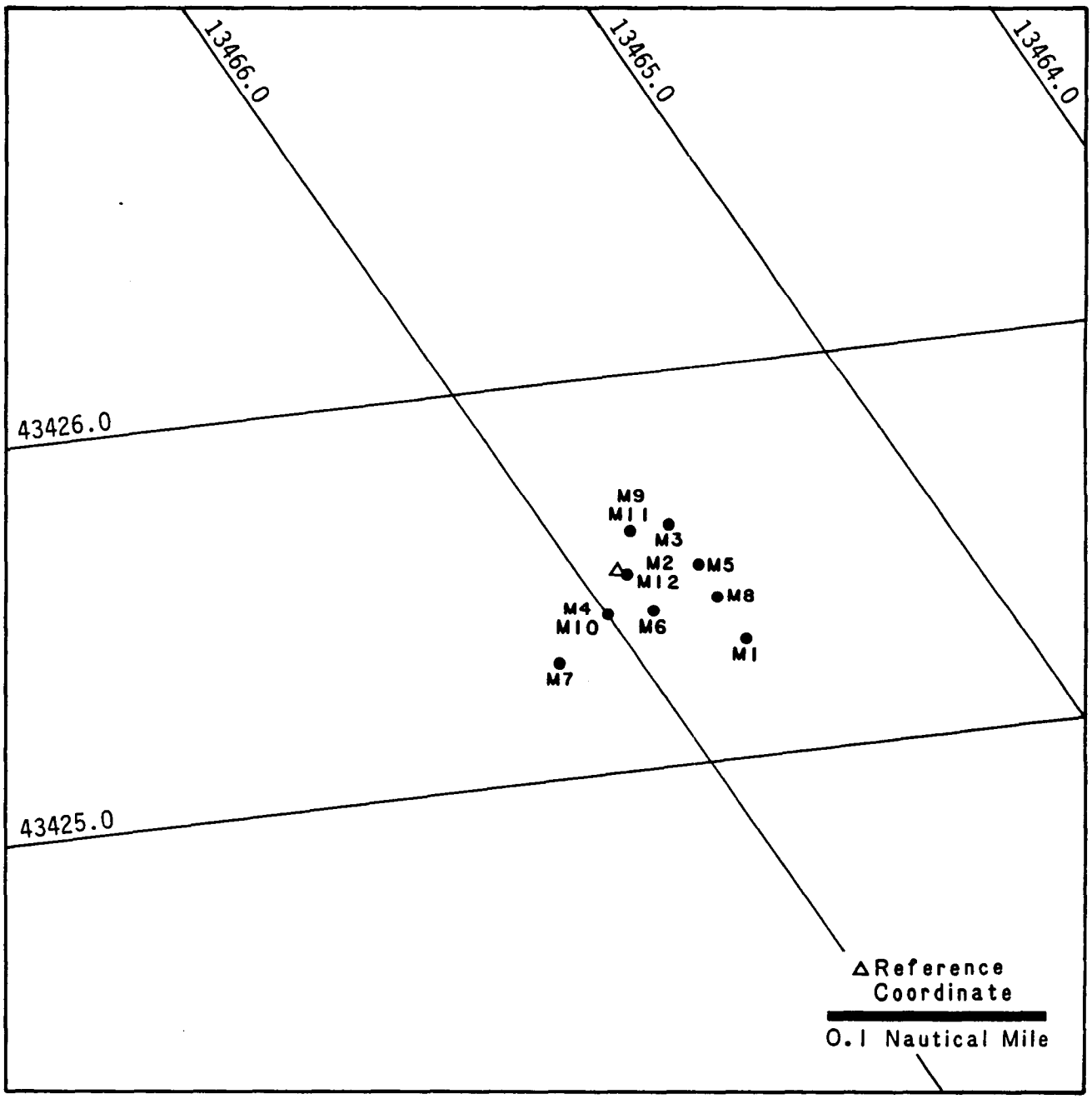

Figure A-8. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 6 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

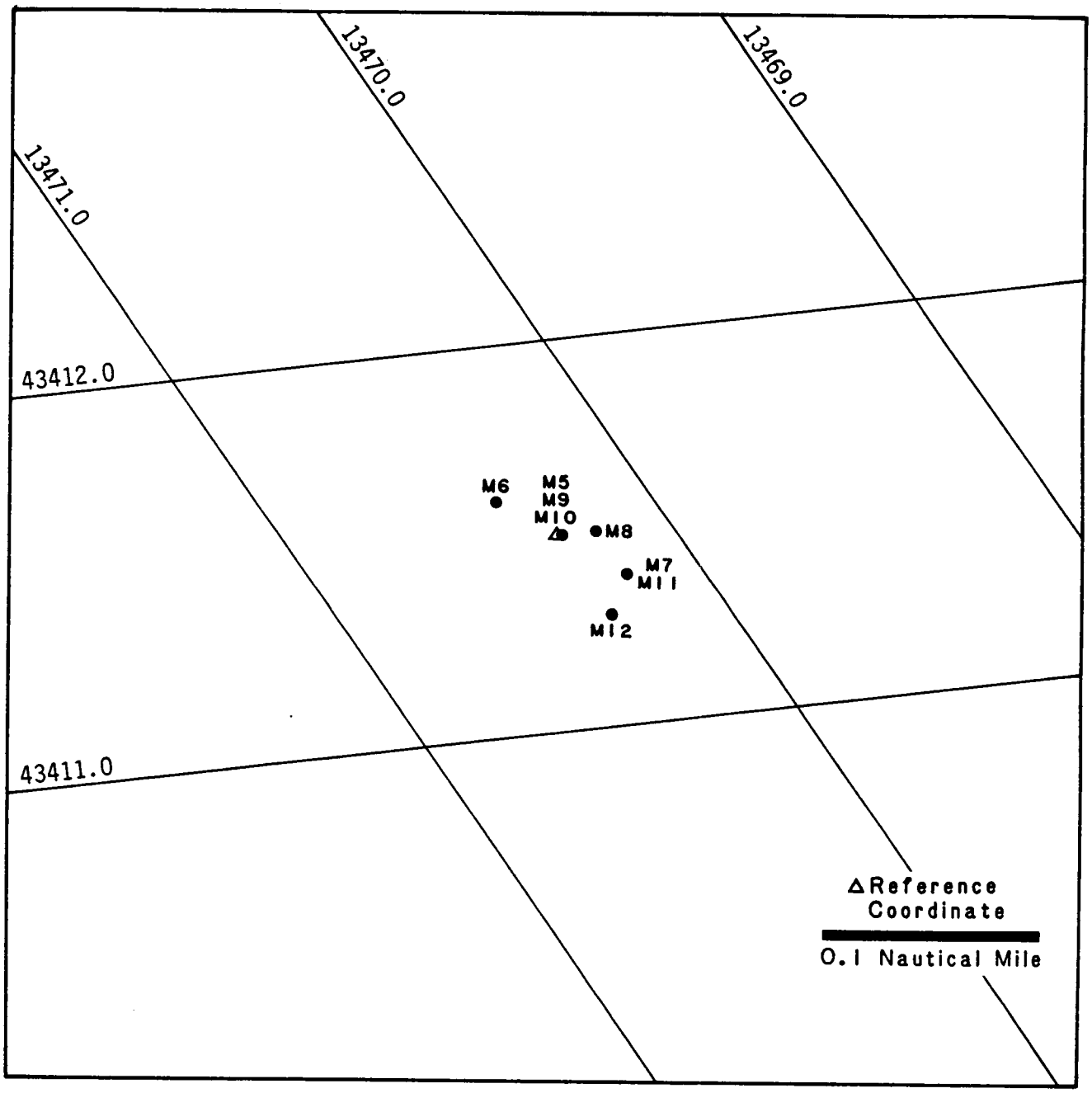

Figure A-9. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 7A plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

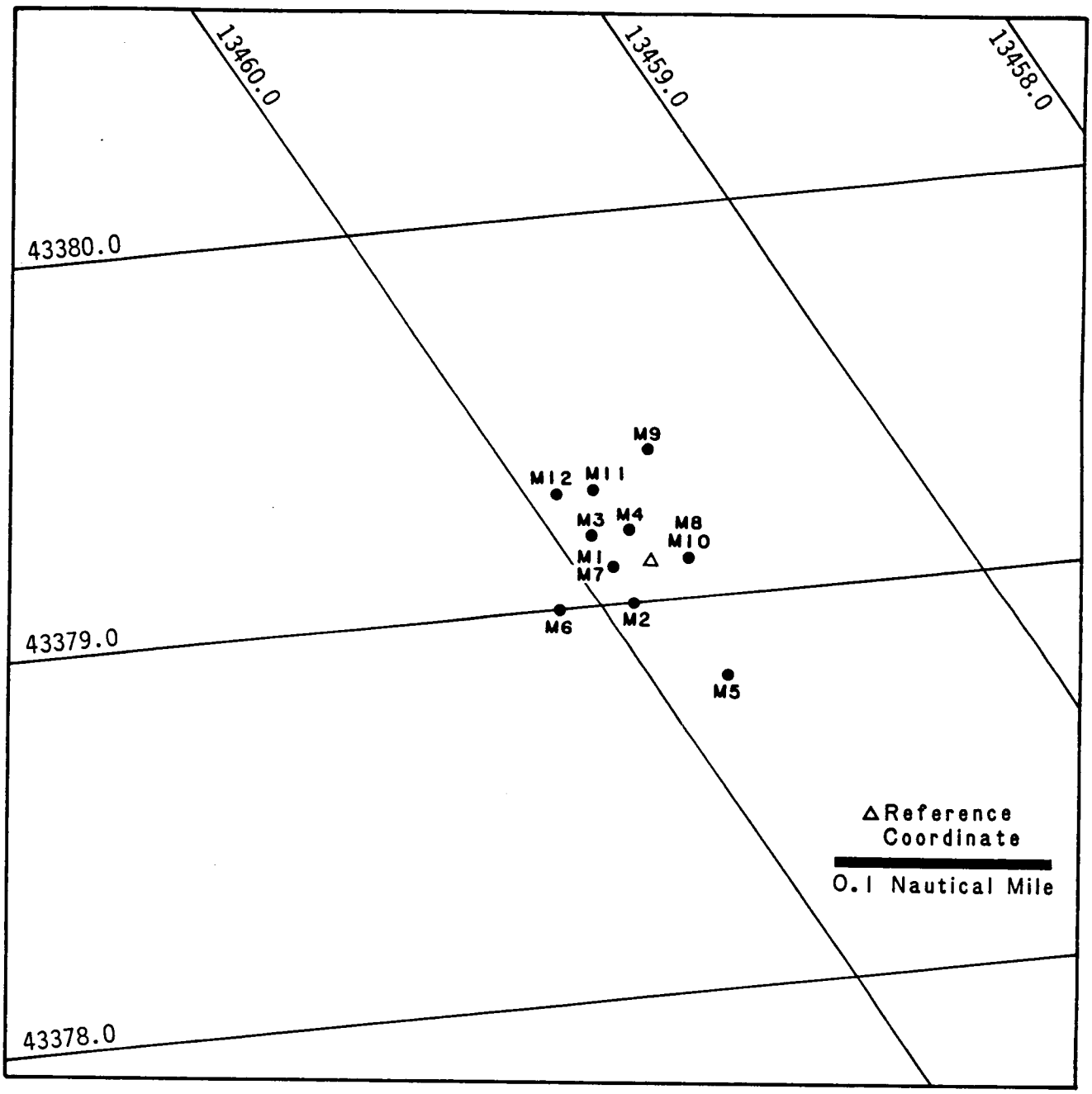

Figure A-10. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 8 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

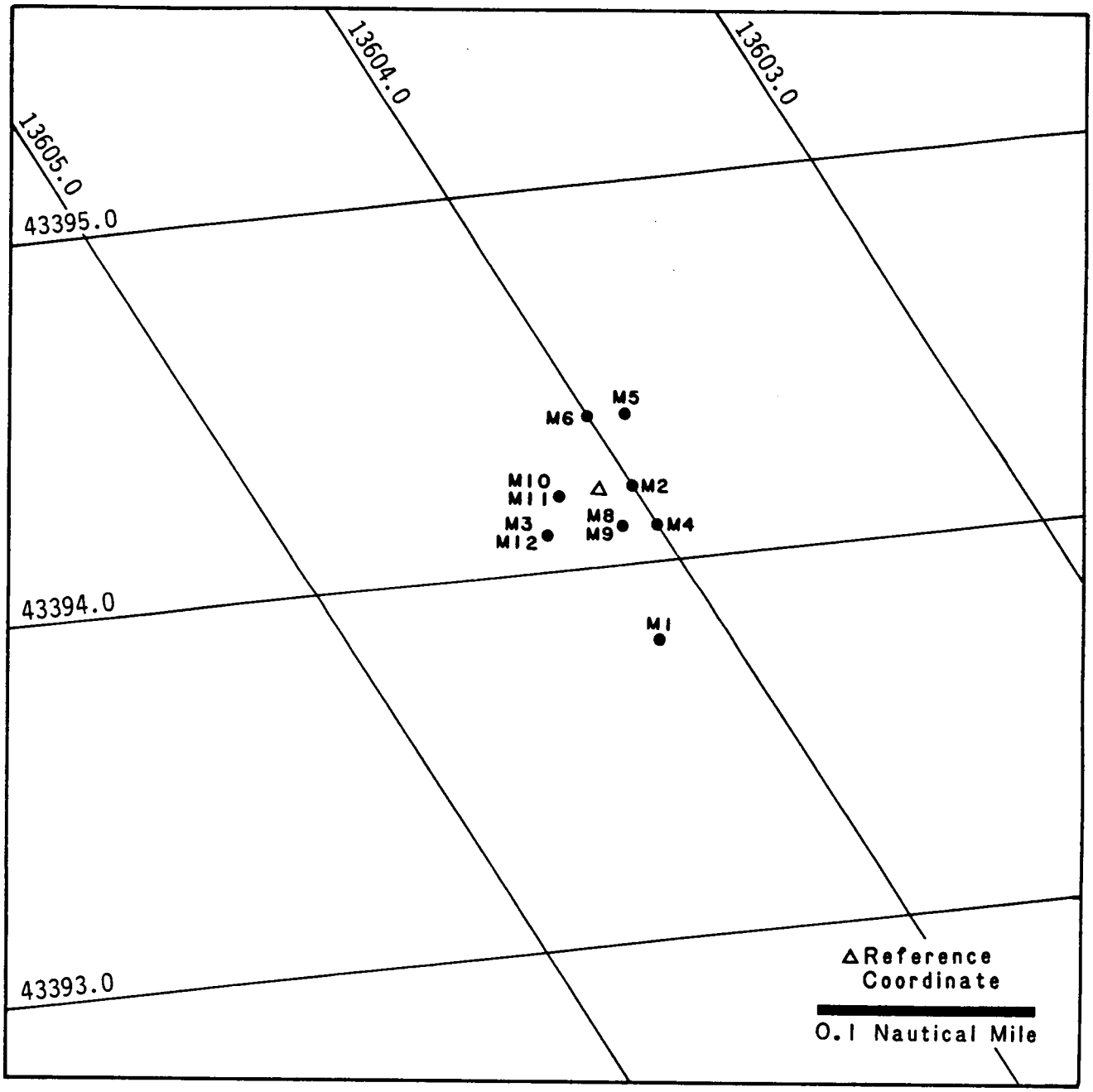

Figure A-11. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 9 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

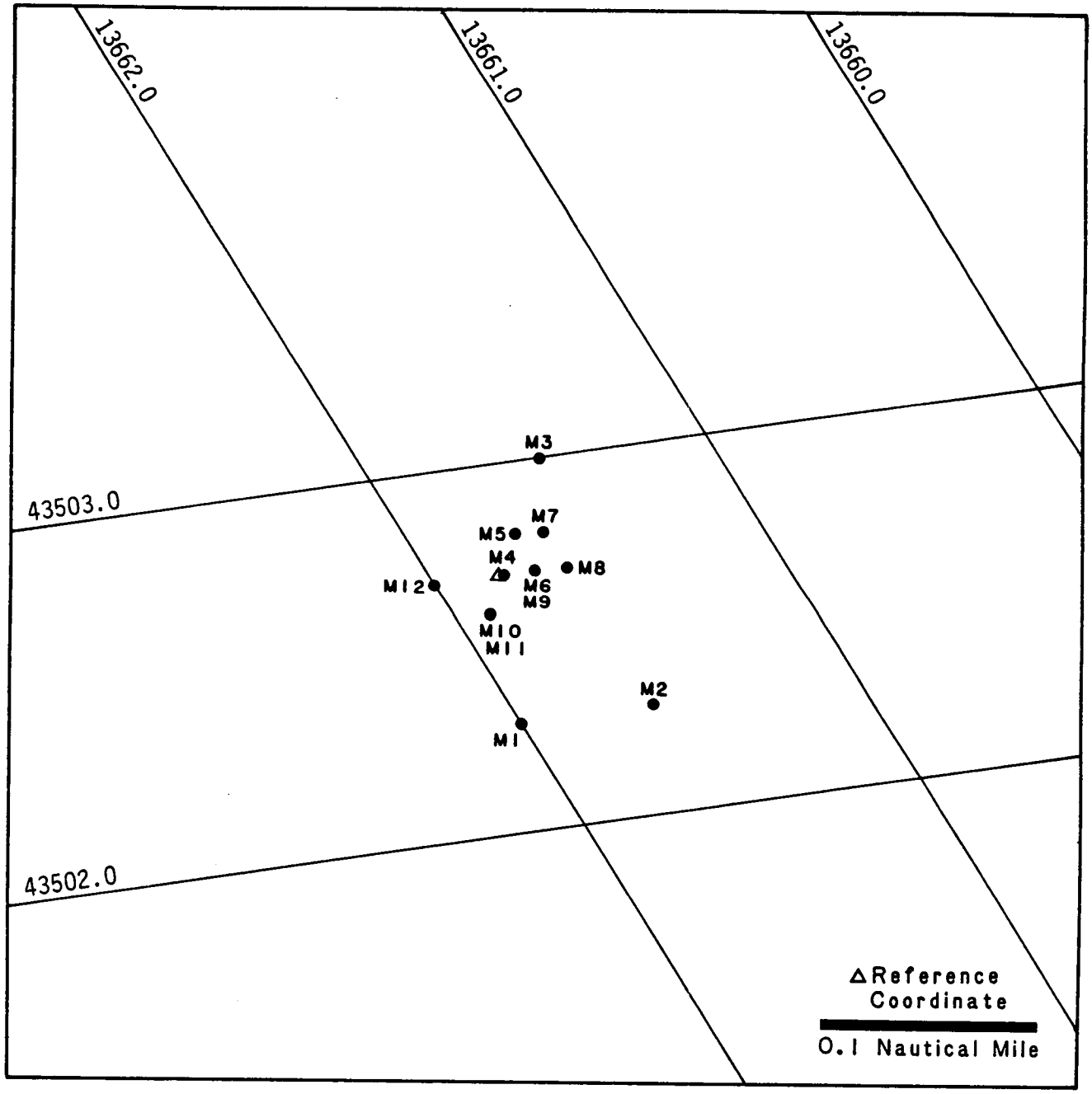

Figure A-12. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 10 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

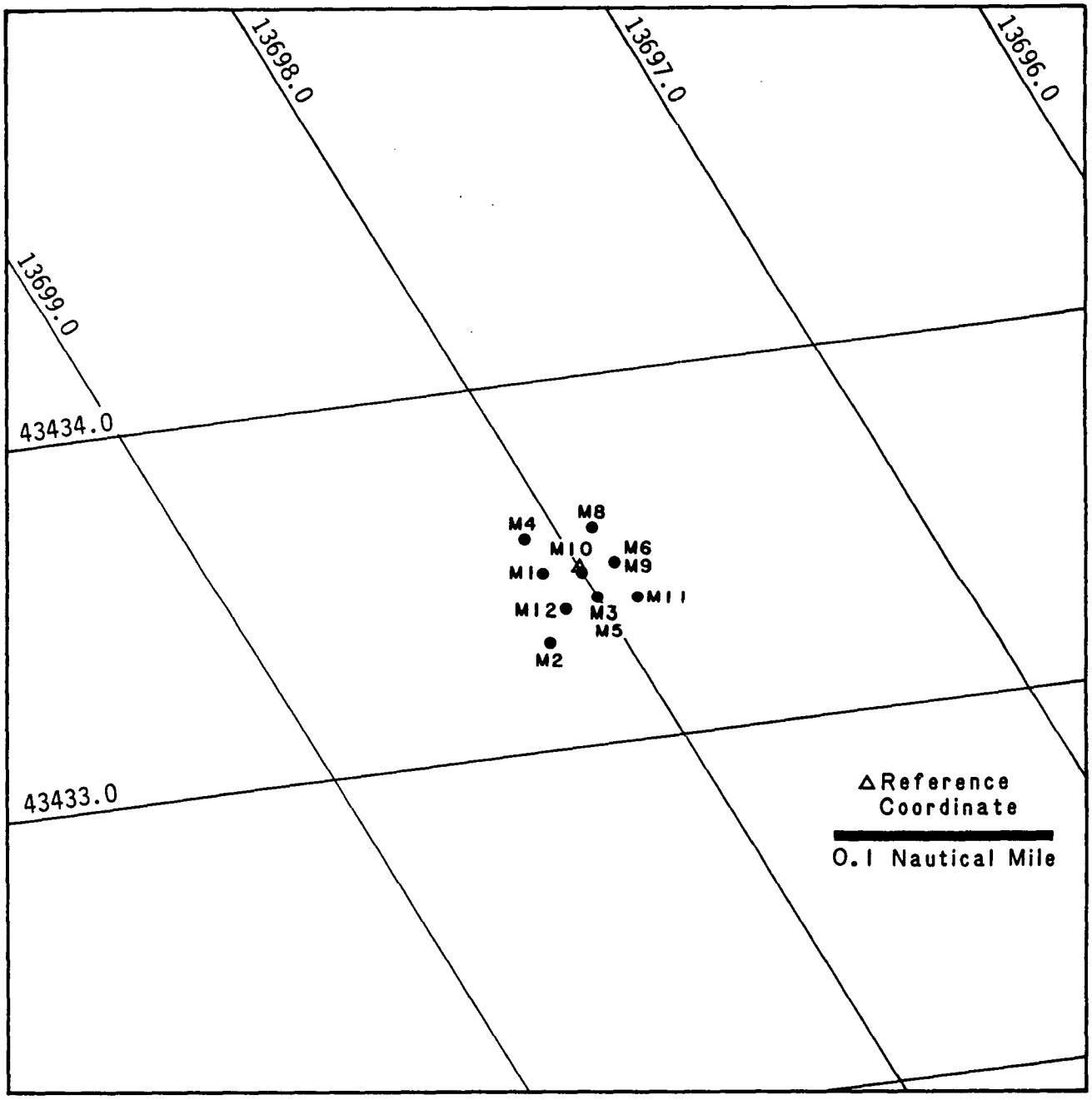

Figure A-13. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 11 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

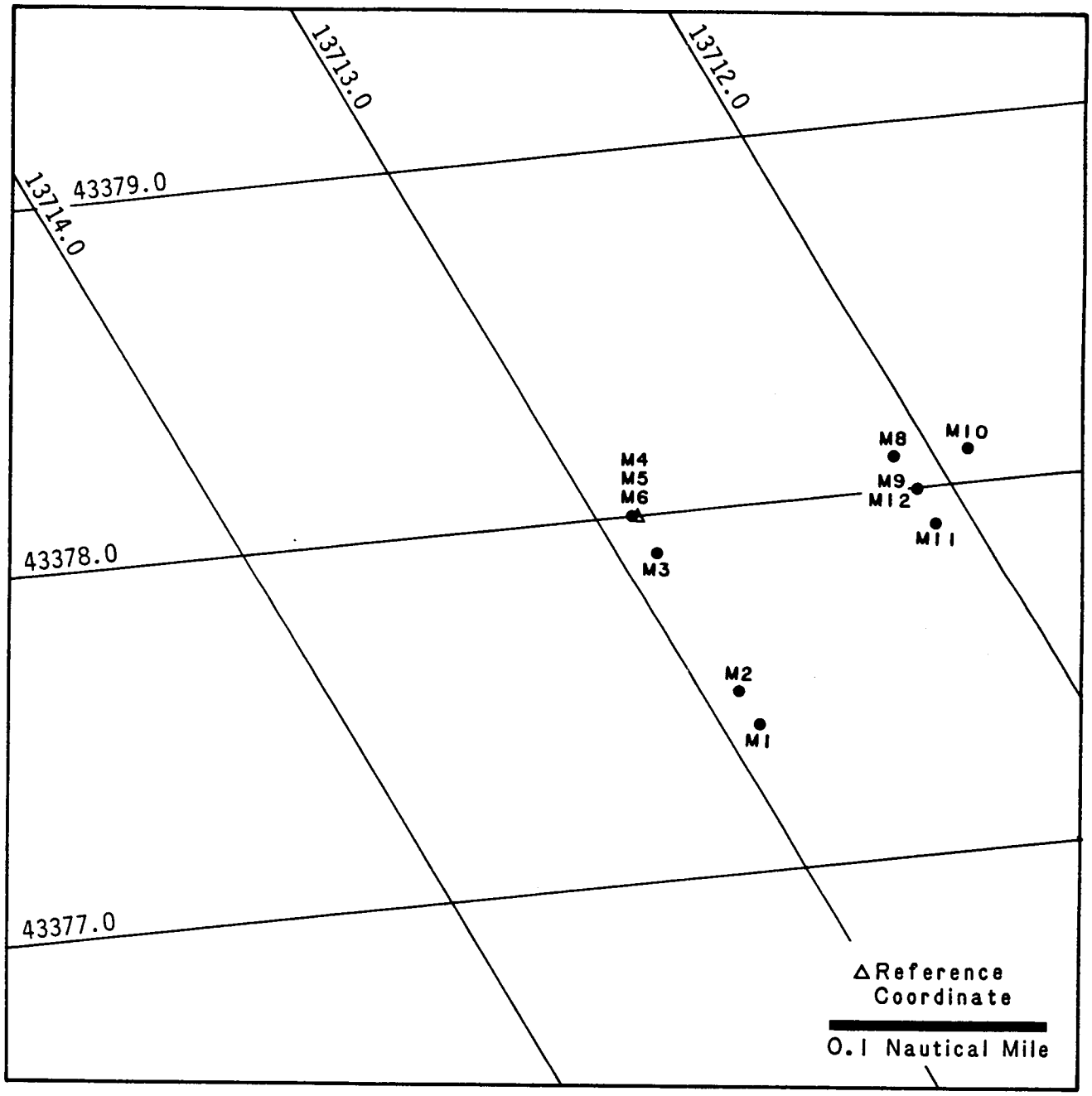

Figure A-14. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 12 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

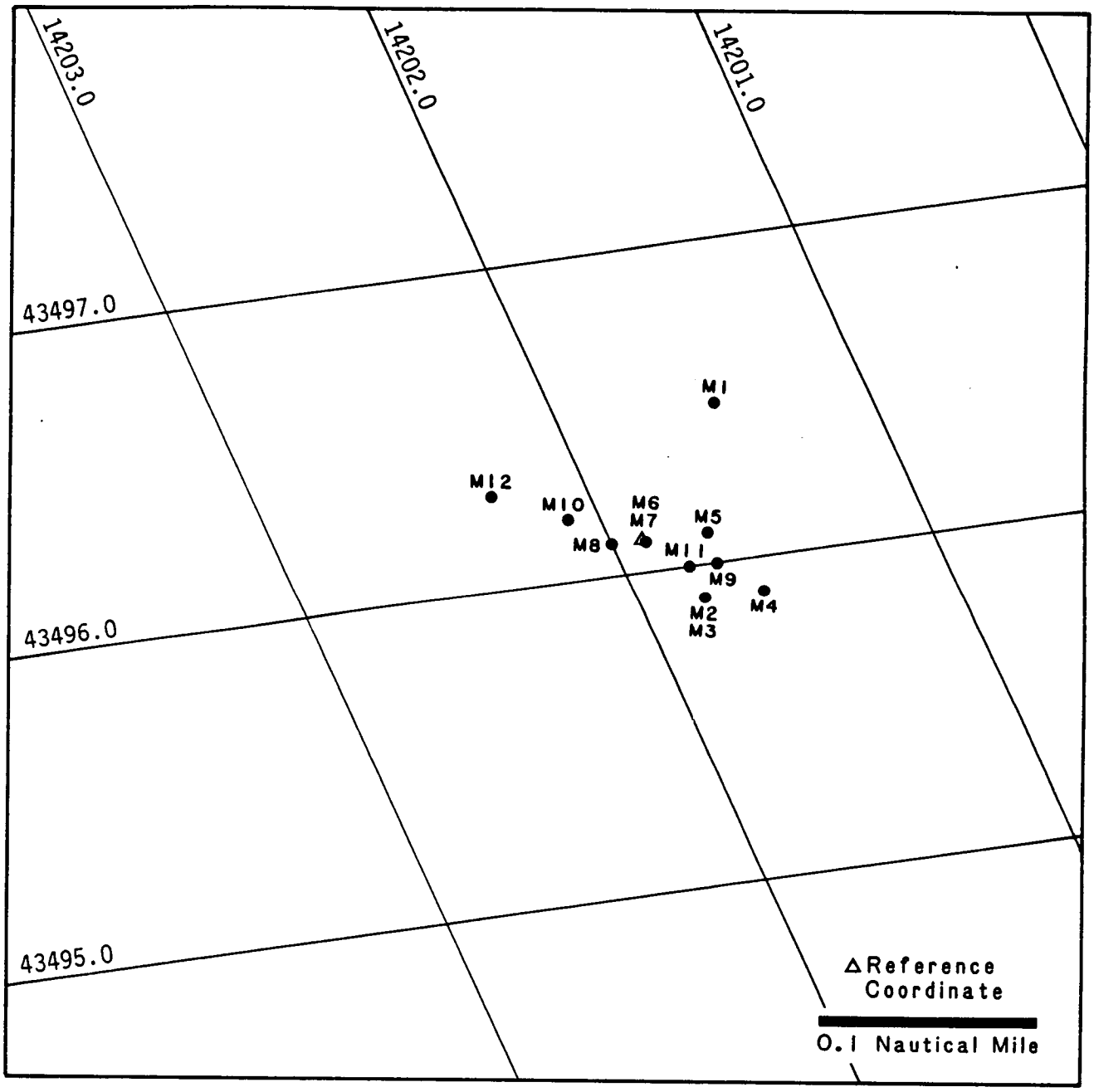

Figure A-15. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 13 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

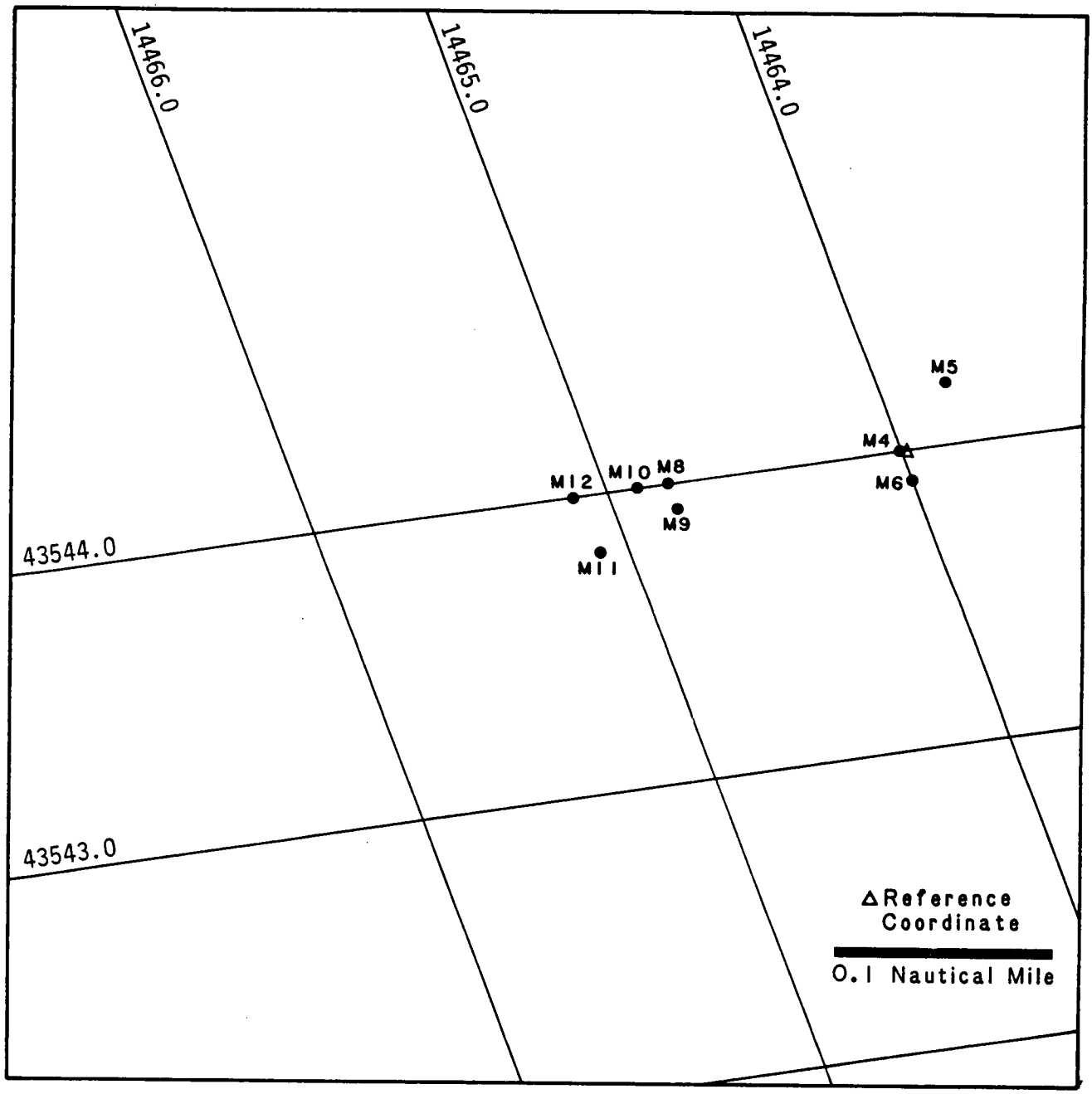

Figure A-16. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 13A plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

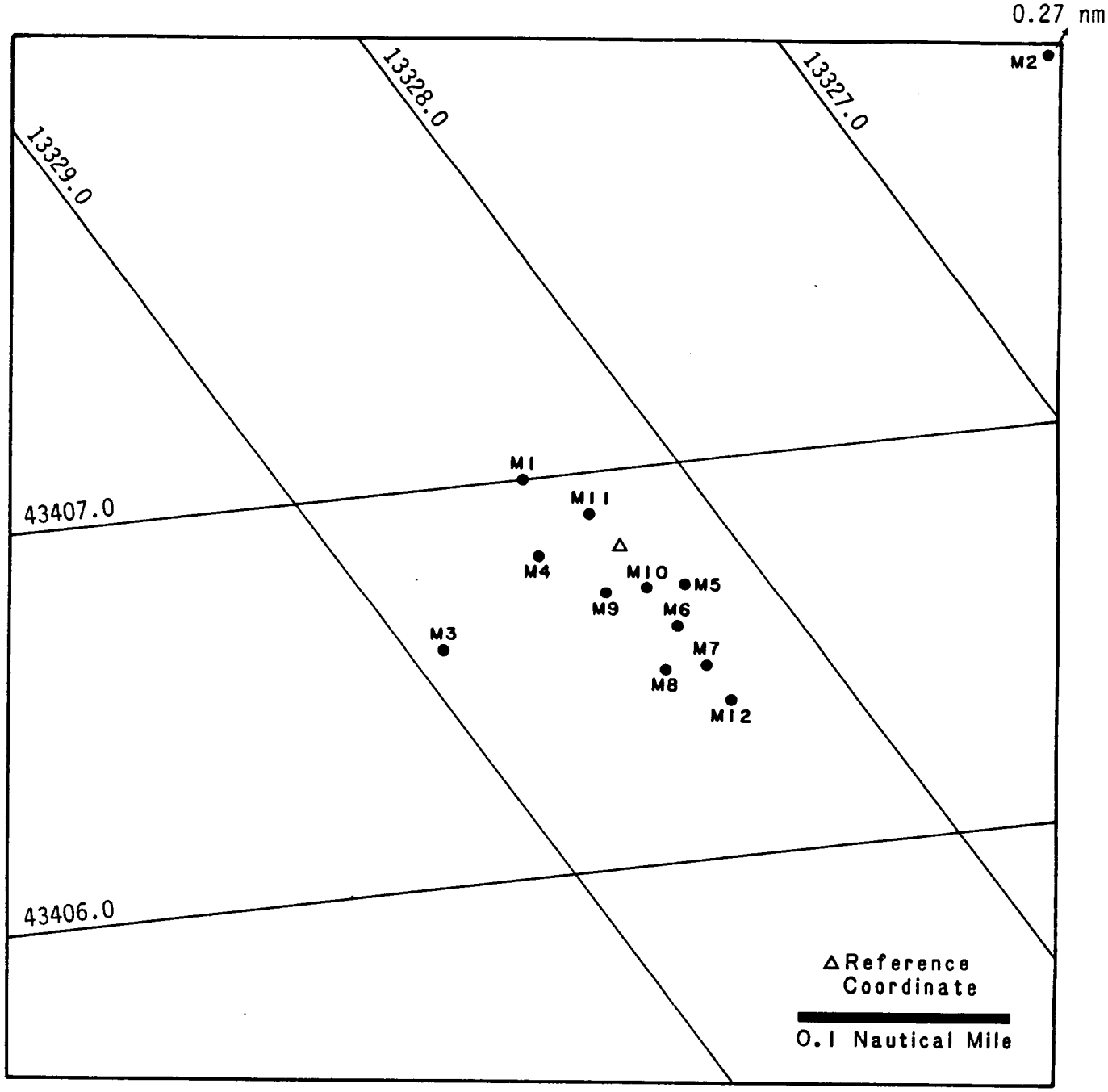

Figure A-17. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 16 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

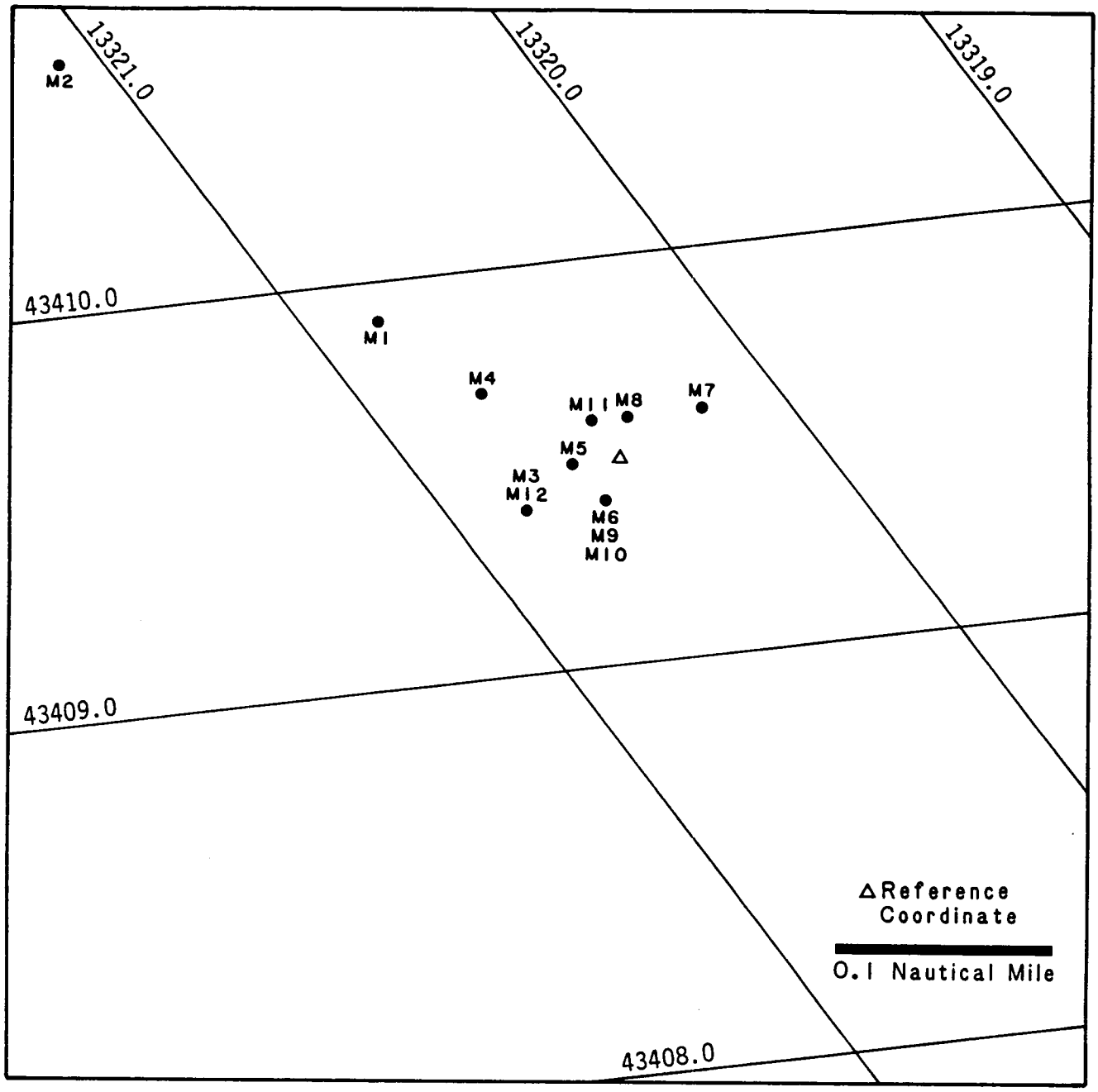

Figure A-18. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 17 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

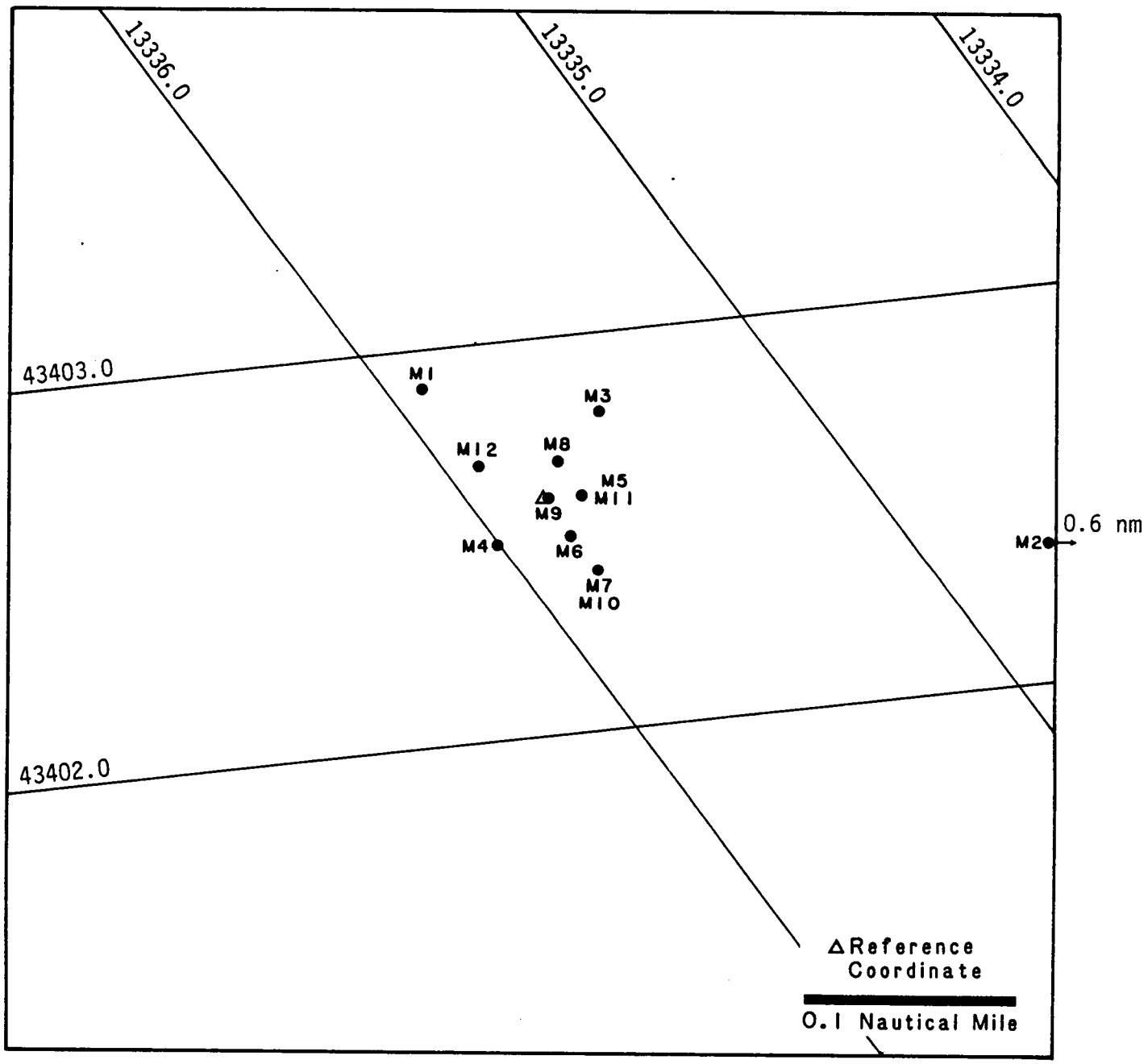

Figure A-19. Average positions of replicate 0.04m^2 biology grab samples at Georges Bank Monitoring Program Station 18 plotted for each cruise using LORAN-C time delays. Reference time delays are given in Table A-1. The reference coordinate indicated in the figure represents the average of all grabs (biology and chemistry) taken in July 1981 (M1).

TABLE A-1. REFERENCE COORDINATES AND DEPTHS OF GEORGES BANK MONITORING PROGRAM STATIONS.

Station	Approx. Depth (m)	Time Delay	Latitude	Longitude
Regional Stations				
1	55	13172.3 43615.2	41°13.0'N	67°15.3'W
2	79	13156.5 43532.0	40°59.0'N	66°55.8'W
3	100	13144.2 43496.7	40°53.7'N	66°46.5'W
4	67	13464.5 43529.2	40°50.7'N	68°00.2'W
6	102	13465.9 43425.5	40°34.3'N	67°45.3'W
7A	167	13470.3 43411.5	40°32.15'N	67°44.2'W
8	152	13459.8 43379.1	40°27.1'N	67°37.4'W
9	144	13604.1 43394.2	40°26.7'N	68°09.8'W
10	66	13661.8 43502.7	40°42.0'N	68°35.3'W
11	86	13698.0 43433.5	40°30.8'N	68°33.7'W
12	108	13712.9 43378.0	40°22.2'N	68°30.2'W
13	70	14201.9 43496.1	40°29.5'N	70°12.6'W
13A	80	14464.0 43544.0	40°30.0'N	71°00.5'W
14A	168	13299.3 43931.3	41°57.5'N	68°31.0'W
15	38	13302.4 43735.3	41°27.5'N	68°00.7'W
16	142	13328.3 43406.8	40°34.2'N	67°12.3'W
17	141	13320.5 43409.5	40°35.0'N	67°11.7'W
18	152	13335.8 43402.6	40°33.5'N	67°13.7'W
Primary Site-Specific Stations				
5-1	84	13447.8 43454.9	40°39.5'N	67°46.2'W
5-2	82	13446.0 43455.2	40°39.6'N	67°45.8'W
5-3	82	13446.4 43456.9	40°39.8'N	67°46.1'W
5-4	82	13449.3 43455.3	40°39.5'N	67°46.5'W
5-5	82	13448.8 43453.6	40°39.3'N	67°46.2'W
5-6	82	13444.7 43454.6	40°39.5'N	67°45.4'W
5-8	80	13445.3 43458.3	40°40.1'N	67°46.1'W

TABLE A-1. (Cont'd)

Station	Approx. Depth (m)	Time Delay	Latitude	Longitude
5-9	84	13448.6 43457.7	40°39.9'N	67°46.7'W
5-10	86	13451.4 43455.4	40°39.4'N	67°46.9'W
5-11	86	13451.3 43453.4	40°39.2'N	67°46.6'W
5-12	86	13449.7 43452.2	40°39.0'N	67°46.1'W
5-14	86	13441.6 43454.2	40°39.5'N	67°44.7'W
5-16	78	13443.3 43461.1	40°40.6'N	67°46.1'W
5-18	84	13453.8 43456.2	40°39.6'N	67°47.6'W
5-20	84	13452.0 43448.4	40°38.5'N	67°46.1'W
5-22	84	13435.9 43453.5	40°39.5'N	67°43.3'W
5-25	89	13459.7 43457.1	40°39.5'N	67°49.0'W
5-28	84	13429.6 43452.4	40°39.5'N	67°41.9'W
5-29	86	13466.5 43459.1	40°39.5'N	67°50.4'W
Secondary Site-Specific Stations				
5-7	75	13443.9 43457.1	40°39.9'N	67°45.7'W
5-13	71	13447.1 43452.7	40°39.2'N	67°45.6'W
5-15	72	13440.3 43458.8	40°40.3'N	67°45.2'W
5-17	74	13448.3 43460.0	40°40.3'N	67°47.1'W
5-19	76	13455.2 43451.4	40°38.8'N	67°47.2'W
5-21	70	13446.3 43450.3	40°38.8'N	67°45.1'W
5-23	77	13438.8 43467.5	40°41.7'N	67°46.1'W
5-24	78	13449.9 43465.3	40°41.1'N	67°48.1'W
5-26	76	13462.5 43447.7	40°38.0'N	67°48.1'W
5-27	75	13456.4 43442.8	40°37.4'N	67°46.1'W

APPENDIX B

APPENDIX B

SPECIES RECORDED FROM GEORGES BANK INFAUNAL SAMPLES

Species marked with an * were not included in statistical analysis

PORIFERA

*Cliona celata Grant, 1826
*Cliona vastifica Hancock, 1849
*Halichondria bowerbanki Burton, 1930
*Halichondria panicea (Pallace, 1763)
*Isodictya deichmanae (de Laubenfels, 1949)
*Leucosolenia cancellata Verrill, 1874
*Lissondendryx isodatylis (Carter, 1882)
*Microciona prolifera (Ellis & Solander, 1786)
*Polymastia robusta Bowerbank, 1860
*Suberites ficus (Johnson, 1842)
*Calcarea sp. A
*Subertitidae sp. A
*Porifera sp. B

CNIDARIA

HYDROZOA

*Acaulis primarius Stimpson, 1854
*Acryptolaria conferta Allman, 1877
*Antenularia americana Nutting, 1900
*Antenularia antennina (L., 1767)
*Athecata sp. A
*Calycella syringa (L., 1767)
*Calyptospadix cerulea Clark, 1882
*Campanularia abyssa Fraser, 1940
*Campanularia angulata (Hincks, 1861)
*Campanularia gigantea Hincks, 1865
*Campanularia groenlandica Levensen, 1893
*Campanularia hinksi Alder, 1856
*Campanularia verticillata (L., 1758)
*Cladocarpus flexilis Verrill, 1883
*Clytia coronata Clarke, 1879
*Clytia cylindrica (Agassiz, 1862)
*Clytia edwardsi (Nutting, 1901)
*Corymorpha pendula Agassiz, 1862
*Cuspidella costata Hincks, 1868
*Cuspidella grandis Hincks, 1868
*Dahlgrenella farcta Miles, 1937
*Dicoryne flexuosa Sars, 1873
*Diphasia fallax (Johnston, 1847)
*Diphasia robusta Fraser, 1943
*Diphasia rosacea (L., 1758)
*Ectopleura prolifica Hargitt, 1908
*Eucopella sp. A
*Eudendrium dispar Agassiz, 1862
*Eudendrium ramosum L., 1758
*Eudendrium tenellum Allman, 1877
*Garveia groenlandica Levensen, 1893
*Gonothyraea gracilis (Sars, 1851)
*Halecium articulosum Clarke, 1875
*Halecium flexile Allman, 1888
*Halecium gracile Verrill, 1874
*Halecium halecium (L., 1767)
*Halecium sp. B
*Hydractinia echinata Fleming, 1828
*Hydrallmania falcata (L., 1758)
*Lafoea dumosa (Fleming, 1824)
*Lovenella grandis Nutting, 1901
*Lovenella sp. A
*Monobrachium parasitum Mereschkowsky, 1877
*Obelia commissaralis McCrady, 1858
*Obelia dichotoma (L., 1758)
*Obelia flabellata (Hincks, 1866)
*Obelia hyalina Clarke, 1879
*Obelia longissima (Pallas, 1766)
*Opercularella lacerata (Johnston, 1847)
*Opercularella pumila Clark, 1875
Selaginopsis alternitheca (Levensen, 1892)

*Sertularella tenella (Alder, 1856)
*Sertularella tricuspidata (Alder, 1856)
*Stegopoma fastigiata (Alder, 1860)
*Stegopoma plicatile (Sars, 1862)
*Stylactis hooperi Sigerfoos, 1899
*Thuiaria argentea (L., 1758)
*Thuiaria carica Levensen, 1893
*Thuiaria cupressina (L., 1758)
*Thuiaria plumulifera Allman, 1877
*Thuiaria similis (Clark, 1876)
*Thuiaria tenera (Sars, 1873)
*Tubiclava cornucopiae Norman, 1864
*Tubularia couthouyi Agassiz, 1862
*Tubularia indivisa L., 1767
*Plumularidae sp. A

ANTHOZOA
*Actinauge longicornis Verrill, 1882
*Alcyonium digitatum L., 1758
Ceriantheopsis americanus Verrill, 1866
*Dasmosmilia lymani (Portalis, 1871)
*Desmophyllum cristagalli Milne Edwards & Haime, 1848
Edwardsia elegans Verrill, 1869
Edwardsia leidyi Verrill, 1898
Edwardsia sp. B
*Epizoanthus incrustatus (Duben & Koren, 1847)
*Halcampa duodecimcirrata (Sars, 1851)
*Paracalliactis involvans (McMurrich, 1893)
*Peachia sp. A
*Gorgonacea sp. A
*Hexactiniae sp. C, sp. D, sp. F, sp. G, sp. H, sp. I
Octocorallia sp. A
Anthozoa sp. C*, sp. H*, sp. I*, sp. J*, sp. K*, sp. N, sp. O*

NEMERTEA
Heteronemertea
Cerebratulus luridus Verrill, 1873
Lineus spp.
Micrura spp.
*Zygeupolia spp.
Nemertea sp. A, sp. B, sp. C, sp. D, sp. E, sp. F, sp. G, sp. H, sp. I, sp. K, sp. L, sp. M, sp. N, sp. O, sp. P, sp. Q, sp. R, sp. S

Hoplonemertea
Monostylifera sp. A

ANNELIDA
OLIGOCHAETA
Tubificidae
Adelodrilus anisosetosus Cook, 1969
Adelodrilus bacrionis Davis, 1985
Adelodrilus correptus Erséus & Davis, 1984
Adelodrilus cristatus Erséus, 1983
Adelodrilus inopinatus Erséus & Davis, 1984
Adelodrilus multispinosus Erséus, 1979
Adelodrilus pilatus Erséus & Davis, 1984
Bathydrilus longus Erséus, 1979
Heterodrilus occidentalis Erséus, 1981
Limnodriloides barnardi Cook, 1969
Limnodriloides medioporus Cook, 1969
Olavius tenuissimus (Erséus, 1979)
Phallodrilus biprostatus (Baker & Erséus), 1979
Phallodrilus boeschi Erséus, 1984
Phallodrilus coeloprostratus Cook, 1969
Phallodrilus cristeri Davis, 1985
Phallodrilus davisi Erséus, 1984
Phallodrilus dorsospermatheca Davis, 1985
Phallodrilus flabellifer Erséus, 1984
Phallodrilus parviatriatus Cook, 1971
Phallodrilus n. sp. E
Tubificoides intermedius (Cook, 1969)
Tubificoides n. sp. A, n. sp. B
Uniporodrilus vestigium Davis, 1985
Tubificidae spp. juv.

Enchytraeidae
Grania n. sp. A, n. sp. B, n. sp. C, n. sp. D
Marionina welchi Lasserre, 1971

Oligochaeta n. fam. sp. A

HIRUDINEA
Hirudinea sp. A

POLYCHAETA
Ampharetidae
Amage tumida Ehlers, 1887
Ampharete acutifrons (Grube, 1860)
Ampharete arctica Malmgren, 1866
Ampharete sp. B
Amphicteis gunneri (Sars, 1835)
Anobothrus gracilis (Malmgren, 1866)
Asabellides sp. A

Eclysippe sp. A
Lysippe sp. A
Melinna elisabethae McIntosh, 1922
Sabellides borealis Sars, 1851
Samytha sexcirrata (Sars, 1856)
Samythella sp. A
Ampharetidae n. gen., n. sp. A; n. gen., n. sp. B; n. gen., n. sp. C; n. gen., n. sp. D; n. gen., n. sp. E

Amphinomidae
Paramphinome jeffreysii (McIntosh, 1868)

Aphroditidae
Aphrodita hastata Moore, 1905
Laetmonice filicornis Kinberg, 1855

Apistobranchidae
Apistobranchus tullbergi (Théel, 1879)

Arabellidae
Arabella sp. A
Drilonereis longa Webster, 1879
Drilonereis magna Webster & Benedict, 1887
Drilonereis n. sp. A (free-living)
*Drilonereis n. sp. B (parasitic with Aricidea catherinae)
*Drilonereis n. sp. D (parasitic with cirratulid)
Haematocleptes sp. A

Capitellidae
Barantolla sp. A
Capitella jonesi (Hartman, 1959)
Capitella spp. (includes C. capitata)
Heteromastus filiformis (Claparède, 1864)
Mediomastus fragilis Rasmussen, 1973
Notomastus latericeus Sars, 1850

Chaetopteridae
Spiochaetopterus oculatus Webster, 1879

Chrysopetalidae
Dysponetus sp. A

Cirratulidae
Caulleriella n. sp. B, n. sp. C
Chaetozone n. sp. A, n. sp. B
Cirratulus cirratus (Müller, 1776)
Dodecaceria n. sp. A, n. sp. B
Tharyx acutus Webster & Benedict, 1887
Tharyx annulosus Hartman, 1965
Tharyx dorsobranchialis Kirkegaard, 1959
Tharyx marioni (Saint-Joseph, 1894)
Tharyx cf. monilaris Hartman, 1960
Tharyx n. sp. A, sp. D, sp. E, sp. F

Cossuridae
Cossura longocirrata Webster & Benedict, 1887

Ctenodrilidae
Ctenodrilus serratus (Schmidt, 1857)

Dorvilleidae
Dorvillea sociabilis (Webster, 1879)
Dorvillea sp. A
Ophryotrocha sp. A, sp. B
Protodorvillea gaspeensis Pettibone, 1961
Protodorvillea kefersteini (McIntosh, 1869)
Protodorvillea minuta (Hartman, 1965)
Schistomeringos caeca (Webster & Benedict, 1884)
Schistomeringos sp. C
Dorvilleidae sp. A

Eunicidae
Eunice norvegica (L., 1767)
Eunice pennata (Müller, 1776)
Eunice vittata (delle Chiaje, 1828)
Marphysa belli (Audouin & Milne Edwards, 1833)
Marphysa sanguinea (Montagu, 1815)
Marphysa cf. stylobranchiata Moore, 1909

Euphrosinidae
Euphrosine armadillo Sars, 1851

Flabelligeridae
Brada villosa (Rathke, 1843)
cf. Flabelligera affinis Sars, 1829
Flabelligera cf. cirrifera Hartman & Fauchald, 1971
Flabelligera sp. B
Pherusa cf. falcata (Støp-Bowitz, 1947)
Pherusa plumosa (Müller, 1776)
Pherusa sp. A
Flabelligeridae sp. A

Glyceridae
- Glycera capitata Oersted, 1843
- Glycera dibranchiata Ehlers, 1868
- Glycera robusta Ehlers, 1868
- Glycera n. sp. A

Goniadidae
- Goniada maculata Oersted, 1843
- Goniada norvegica Oersted, 1845
- Goniada n. sp. A
- Goniadella gracilis (Verrill, 1873)

Hesionidae
- Gyptis sp. A, sp. B
- Microphthalmus listensis Westheide, 1967
- Microphthalmus sczelkowii Mecznikow, 1865
- Microphthalmus sp. A
- Nereimyra punctata (Müller, 1776)
- Podarke obscura Verrill, 1873

Lacydoniidae
- Lacydonia cf. cirrata (Hartman & Fauchald, 1971)

Lumbrineridae
- Lumbrinerides acuta (Verrill, 1875)
- Lumbrineris fragilis (Müller, 1776)
- Lumbrineris impatiens (Claparède, 1868)
- Lumbrineris latreilli (Audouin & Milne Edwards, 1833)
- Lumbrineris paradoxa Saint-Joseph, 1888
- Lumbrineris tenuis (Verrill, 1873)
- Lumbrineris sp. B, sp. C, sp. D
- Ninoe nigripes Verrill, 1873
- Paraninoe brevipes (McIntosh, 1903)

Maldanidae
- Asychis biceps (Sars, 1861)
- Axiothella sp. B, sp. C
- Clymenella torquata (Leidy, 1855)
- Clymenella sp. A
- Clymenura borealis (Arwidsson, 1907)
- Clymenura polaris (Théel, 1879)
- Clymenura sp. A
- Euclymene sp. A, sp. B
- Heteroclymene robusta Arwidsson, 1907
- Isocirrus planiceps (Sars, 1872)
- Maldane sarsi Malmgren, 1865
- Maldanella sp. A
- Nicomache lumbricalis (Fabricius, 1780)
- Petaloproctus borealis Arwidsson, 1906
- Petaloproctus tenuis Théel, 1879
- Praxillella gracilis (Sars, 1861)
- Praxillella praetermissa (Malmgren, 1866)
- Praxillura longissima Arwidsson, 1907
- Rhodine gracilior Tauber, 1879
- Rhodine loveni Malmgren, 1865
- Euclymeninae sp. B
- Maldanidae sp. B, sp. C, sp. E, sp. F, sp. G

Nephtyidae
- Aglaophamus circinata (Verrill, 1874)
- Nephtys bucera Ehlers, 1868
- Nephtys caeca (Fabricius, 1780)
- Nephtys ciliata (O.F. Müller, 1789)
- Nephtys incisa Malmgren, 1865
- Nephtys paradoxa Malm, 1874
- Nephtys picta Ehlers, 1868
- Nephtys squamosa Ehlers, 1887
- Nephtys sp. B, sp. C

Nereididae
- Ceratocephale loveni Malmgren, 1867
- Nereis grayi Pettibone, 1956
- Nereis pelagica (L., 1761)
- Nereis cf. riisei Grube, 1856
- Nereis zonata Malmgren, 1867
- Nereis sp. B, sp. E

Onuphidae
- Mooreonuphis pallidula (Hartman, 1965)
- Nothria britannica (McIntosh, 1903)
- Onuphis opalina (Verrill, 1873)
- Paronuphis sp. A
- Rhamphobrachium sp. A, sp. B

Opheliidae
- Ophelia denticulata Verrill, 1875
- Ophelia limacina (Rathke, 1843)
- Ophelina abranchiata Støp-Bowitz, 1958

Ophelina acuminata Oersted, 1843
Ophelina cylindricaudata (Hansen, 1878)
Ophelina sp. A
Travisia forbesii Johnson, 1840
Travisia sp. A, sp. B

Orbiniidae
Leitoscoloplos acutus (Verrill, 1873)
Leitoscoloplos cf. fragilis (Verrill, 1873)
Leitoscoloplos robustus (Verrill, 1873)
Leitoscoloplos sp. A
Orbinia swani Pettibone, 1957
Phylo felix Kinberg, 1866
Scoloplos acmeceps Chamberlin, 1919
Scoloplos armiger (Müller, 1776)
Scoloplos (?Leodamas) sp. A

Oweniidae
Myriochele heeri Malmgren, 1867
Myriochele oculata Zaks, 1923
Myriochele sp. A, sp. B
Myriowenia gosnoldi Hartman, 1965
Owenia fusiformis delle Chiaje, 1844

Paraonidae
Aricidia cf. belgica (Fauvel, 1936)
Aricidea catherinae Laubier, 1967
Aricidea cerruti Laubier, 1966
Aricidea cf. hartmani (Strelzov, 1968)
Aricidea longobranchiata Day, 1961
Aricidea neosuecica Hartman, 1965
Aricidea quadrilobata Webster & Benedict, 1887
Aricidea suecica Eliason, 1920
Aricidea wassi Pettibone, 1965
Aricidea n. sp. A, n. sp. B, sp. D, sp. F, sp. G
Cirrophorus furcatus (Hartman, 1957)
Levinsenia gracilis (Tauber, 1879)
Levinsenia sp. A
Paradoneis lyra (Southern, 1914)
Paradoneis n. sp. A, sp. B
Paraonis fulgens (Levinsen, 1883)
Paraonis pygoenigmatica Jones, 1968
Paraonis n. sp. A, n. sp. C, sp. D

Pectinariidae
Lagis spp. (juveniles)
Pectinaria granulata (L., 1767)
Pectinaria hyperborea (Malmgren, 1866)

Phyllodocidae
Cirrodoce cristata Hartman & Fauchald, 1971
Eteone longa (Fabricius, 1780)
Eteone spetsbergensis Malmgren, 1865
Eulalia bilineata (Johnston, 1840)
Eulalia viridis (L., 1767)
Eumida sanguinea (Oersted, 1843)
Genetyllis castanea (Marenzeller, 1879)
Hesionura elongata (Southern, 1914)
Mystides borealis Théel, 1979
Mystides caeca Langerhans, 1880
Mystides rarica (Ushakov, 1958)
Paranaitis speciosa (Webster, 1880)
Phyllodoce groenlandica Oersted, 1842
Phyllodoce maculata (L., 1767)
Phyllodoce mucosa Oersted, 1843
Phyllodoce sp. A,
Phyllodocidae n. gen., sp. A

Pilargidae
Ancistrosyllis groenlandica McIntosh, 1879
Synelmis klatti (Friedrich, 1950)

Polygordidae
Polygordius sp. A, sp. B

Polynoidae
Antinoana fusca Hartman & Fauchald, 1971
Eucranta villosa Malmgren, 1865
Harmothoe extenuata (Grube, 1840)
Harmothoe imbricata (L., 1767)
Hartmania moorei Pettibone, 1955
Lepidonotus squamatus (L., 1758)
Nemidia torelli Malmgren, 1865

Protodrilidae
Protodriloides chaetifer (Remane, 1926)
Protodrilus sp. A

Psammodrilodae
Psammodrilus balanoglossoides Swedmark, 1952

Questidae
Novaquesta trifurcata Hobson, 1970

Sabellidae
Chone duneri Malmgren, 1867
Chone infundibuliformis Kröyer, 1856
Chone sp. A, sp. B
Euchone cf. elegans Verrill, 1873
Euchone hancocki Banse, 1970
Euchone incolor Hartman, 1965
Euchone sp. A
*Fabricia sp. indet.
Jasmineira cf. filiformis Hartman, 1965
Megalomma bioculata (Ehlers, 1887)
Myxicola infundibulum (Renier, 1804)
Oriopsis sp. A
Potamilla neglecta (Sars, 1851)
Potamilla reniformis (Leukart, 1849)
Sabellidae sp. A

Scalibregmatidae
Scalibregma inflatum Rathke, 1843

Serpulidae
*Filograna implexa (Berkeley, 1851) (Salmacina - form)
*Protula tubularia (Montagu, 1803)

Sigalionidae
Pholoe minuta (Fabricius, 1780)
Sigalion arenicola Verrill, 1879
Sigalion sp. A
Sthenelais limicola (Ehlers, 1864)
Sthenelais picta Verrill, 1881

Sphaerodoridae
Ephesiella macrocirris Hartman & Fauchald, 1971
Sphaerephesia cf. similisetis Fauchald, 1972
Sphaerodoridium sp. A
Sphaerodoropsis corrugata Hartman & Fauchald, 1971
Sphaerodorum gracilis (Rathke, 1843)
Sphaerodorum sp. A
Sphaerodoridae sp. A

Spionidae
Aonides paucibranchiata Southern, 1914
Apoprionospio dayi Foster, 1969
Laonice cirrata (Sars, 1851)
Malacoceros indicus Fauvel, 1928
Microspio pigmentata (Reish, 1959)
Polydora aggregata Blake, 1969
*Polydora barbilla Blake, 1981
Polydora blakei Maciolek, 1984
Polydora cf. caeca Oersted, 1843
Polydora caulleryi Mesnil, 1897
Polydora concharum Verrill, 1880
Polydora ligni Webster, 1879
Polydora socialis (Schmarda, 1861)
*Polydora websteri Hartman, 1943
Polydora n. sp. A, n. sp. B
Prionospio cirrifera Wirén, 1883
Prionospio aff. cirrobranchiata Day, 1961
Prionospio dubia Day, 1961
Prionospio steenstrupi Malmgren, 1867
Prionospio n. sp. A, n. sp. B
Scolelepis squamata (Müller, 1789)
Scolelepis texana Foster, 1971
Spio cf. armata (Thulin, 1957)
Spio filicornis (Müller, 1776)
Spio limicola Verrill, 1879
Spiophanes bombyx (Claparède, 1870)
Spiophanes kroeyeri Grube, 1860
Spiophanes wigleyi Pettibone, 1962
Spiophanes sp. A
Spionidae n. gen., n. sp. A; n. gen., n. sp. B; n. gen., n. sp. C

Spintheridae
*Spinther oniscoides (Johnston, 1845)

Spirorbidae
*Spirorbidae sp. A

Sternaspidae
Sternaspis scutata (Renier, 1807)

Syllidae
- Autolytus cf. alexandri Malmgren, 1867
- Autolytus prolifer (O. F. Müller, 1788)
- Braniella cf. palpata Hartman, 1967
- Braniella pupa Hartman, 1965
- Ehlersia cornuta Rathke, 1843
- Eusyllis blomstrandi Malmgren, 1867
- Eusyllis lamelligera Marion & Bobretzky, 1875
- Eusyllis sp. A
- Exogone hebes (Webster & Benedict, 1884)
- Exogone naidena Oersted, 1845
- Exogone verugera (Claparède, 1868)
- Odontosyllis longiseta Day, 1973
- Parapionosyllis longicirrata (Webster & Benedict, 1884)
- Proceraea cornuta (Agassiz, 1863)
- Sphaerosyllis cf. brevifrons Webster & Benedict, 1884
- Sphaerosyllis sp. B
- Streptosyllis arenae Webster & Benedict, 1884
- Streptosyllis varians Webster & Benedict, 1887
- Streptosyllis websteri Southern, 1914
- Streptosyllis sp. A
- Syllides benedicti Banse, 1971
- Syllides japonica Imajima, 1966
- Syllides longocirrata (Oersted, 1845)
- Syllides sp. A, sp. B, sp. C, sp. D, sp. F (cf. convoluta Webster & Benedict, 1884)
- Syllis sp. A, sp. B
- Typosyllis hyalina (Grube, 1863)
- Typosyllis tegulum Hartman & Fauchald, 1971

Terebellidae
- Amaena triloba (Sars, 1863)
- Amphitrite affinis Malmgren, 1866
- Eupolymnia nebulosa (Montagu, 1818)
- Leaena cf. abranchiata (Sars, 1865)
- Leaena minima Hartman & Fauchald, 1971
- Nicolea venustula (Montagu, 1818)
- Nicolea zostericola (Oersted, 1844)
- Pista palmata Verrill, 1873
- Polycirrus eximius (Leidy, 1855)
- Polycirrus medusa Grube, 1850
- Polycirrus phosphoreus Verrill, 1880
- Polycirrus sp. A, sp. B, sp. F, sp. G, sp. H, sp. I
- Proclea sp. A
- Streblosoma sp. A
- Terebella cf. lapidaria L., 1767
- Terebellidae sp. A

Trichobranchidae
- Terebellides stroemi Sars, 1835
- Trichobranchus roseus (Malmgren, 1874)

Trochochaetidae
- Trochochaeta cf. carica (Birula, 1897)
- Trochochaeta multisetosa (Oersted, 1843)

Family Undetermined
- Aberranta enigmatica Hartman, 1965
- Archiannelida sp. A
- Polychaeta sp. A, sp. B, sp. C (? juvenile)

PHORONIDA
- Phoronida sp. A

PRIAPULIDA
- Tubuluchus sp. A

SIPUNCULA
- Golfingia eremita (Sars, 1851)
- Golfingia margaritacea (Sars, 1851)
- Golfingia minuta (Keferstein, 1865)
- Golfingia sp. A
- Phascolion strombi (Montagu, 1804)
- Phascolopsis gouldi (Pourtales, 1851)

MOLLUSCA

GASTROPODA

Prosobranchia
- Alvania cf. acuticostata (Dall, 1889)
- Alvania castanea Möller, 1842
- Alvania exarata Stimpson, 1851
- Alvania harpa Verrill, 1882
- Alvania mighelsii (Stimpson, 1851)
- Alvania pelagica (Stimpson, 1851)
- Buccinum undatum L., 1758
- *Cocculina beanii Dall, 1882

Colus parvus (Verrill & Smith, 1882)
Colus pygmaeus (Gould, 1841)
Colus sabinii (Gray, 1824)
*Crepidula fornicata (L., 1758)
*Crepidula plana Say, 1822
*Crucibulum striatum Say, 1824
Epitonium championi
Clench & Turner, 1952
Epitonium dallianum
(Verrill & Smith, 1880)
Epitonium multistriatum (Say, 1826)
Lunatia heros (Say, 1822)
Mitrella dissimilis Stimpson, 1851
Moelleria costulata (Möller, 1842)
Nassarius trivitatus (Say, 1822)
Neptunea decemcostata Say, 1826
Polinices immaculatus (Totten, 1834)
Polinices nanus (Möller, 1842)
Puncturella noachina L., 1767
Sayella unifasciata (Forbes, 1843)
Scissurella crispata (Fleming, 1828)
Solariella obscura (Couthouy, 1838)
Turritellopsis cf. acicula
(Stimpson, 1851)
Velutina velutina (Müller, 1776)
Naticidae sp. A
Gastropoda sp. C

Opisthobranchia
*Adalaria proxima
(Alder & Hancock, 1854)
*Cadlina laevis (L., 1767)
*Coryphella sp. A
Cylichna alba (Brown, 1827)
Cylichna gouldi (Couthouy, 1839)
*Dendronotus frondosus
(Ascanius, 1774)
Diaphana minuta (Brown, 1827)
*Doridella obscura Verrill, 1870
*Doto coronata (Gmelin, 1792)
*Eubranchus sp. A
*Limacina leseueurii (Orbigny, 1836)
*Limacina retroversa (Fleming, 1823)
*Limacina trochiformis
(Orbigny, 1836)
Odostomia dealbata (Stimpson, 1851)
Odostomia eburnea (Stimpson, 1851)
Odostomia gibbosa Bush, 1909
Odostomia modesta Stimpson, 1851
Odostomia sulcosa (Mighels, 1843)
*Okenia sp. A
*Onchidoris aspera
Alder & Hancock, 1842
*Onchidoris cf. tenella
Gould, 1870
Philine lima (Brown, 1827)
Philine quadrata (Wood, 1839)
Philine tincta Verrill, 1882
Pleurobranchia tarda
Verrill, 1880
Retusa obtusa (Montagu, 1807)
*Aeolidiidae sp. A
Nudibranchia sp. B, sp. C

BIVALVIA
*Anomia squamula L., 1758
Arctica islandica (L., 1767)
Astarte borealis (Shumacher, 1817)
Astarte castanea (Say, 1822)
Astarte crenata subequilatera
Sowerby, 1854
Astarte montagui (Dillwyn, 1817)
Astarte quadrans Gould, 1841
Astarte undata Gould, 1841
Astarte sp. A
Bathyarca pectunculoides
Scacchi, 1833
Cardiomya perrostrata (Dall, 1881)
Cerastoderma pinnulatum
(Conrad, 1831)
Corbula contracta Say, 1822
Crenella decussata (Montagu, 1808)
Crenella fragilis Verrill, 1885
Crenella glandula (Totten, 1843)
Cuspidaria cf. parva
Verrill & Bush, 1898
Cuspidaria pellucida Stimpson, 1853
Cuspidaria rostrata (Spengler, 1783)
Cyclocardia borealis (Conrad, 1831)
*Dacrydium vitreum (Holboll, 1842)
Diplodonta sp. A
Ensis directus Conrad, 1843
*Hiatella arctica (L., 1767)
Limatula subauriculata
(Montagu, 1808)
Limea sp. A
Limopsis sulcata
Verrill & Bush, 1898
Lucinoma filosa (Stimpson, 1851)
Lyonsia granulifera
Verrill & Bush, 1898
Lyonsia hyalina Conrad, 1831

Modiolus modiolus (L., 1758)
Musculus niger (Gray, 1824)
Mysella planulata (Stimpson, 1857)
*Mytilus edulis Linné 1787
Nucula delphinodonta
Mighels & Adams, 1842
Nucula proxima Say, 1822
Nuculana messanensis (Seguenza, 1877)
Nuculana pernula Müller, 1779
Nuculana tennisulcata Couthouy, 1858
Palliolum subimbrifer
(Verrill & Bush, 1897)
Palliolum sp. B
Pandora gouldiana Dall, 1886
Periploma leanum (Conrad, 1831)
Periploma papyratium (Say, 1822)
Periploma sp. A
Pitar morrhuanus Linsley, 1848
Placopecten magellanicus
(Gmelin, 1791)
Poromya granulatum
(Nyst & Westendorp, 1839)
Siliqua costata Say, 1822
Solemya borealis Totten, 1834
Solemya velum Say, 1822
Spisula solidissima (Dillwyn, 1817)
Tellina agilis Stimpson, 1857
Tellina tenella Verrill, 1874
Thracia septentrionalis
Jeffreys, 1872
Thyasira sp. A, sp. B, sp. C, sp. D,
sp. E, sp. F
Yoldia sapotilla (Gould, 1841)
Lasaeida sp. A
Leptonacea sp. B
Bivalvia sp. D, sp. F

SCAPHOPODA
Cadulus agassizii Dall, 1881
Cadulus grandis Verrill, 1884
Cadulus verrilli Henderson, 1920
Dentalium entale stimpsoni
Henderson, 1920
Siphonodentalium bushi
Henderson, 1920
Siphonodentalium occidentale
Henderson, 1920
cf. Siphonodentalium tythum
Watson, 1879

POLYPLACOPHORA
*Hanleya sp. A
*Leptochiton sp. A, sp. B
*Polyplacophora sp. A

APLACOPHORA
Chaetoderma nitidulum Lovén, 1884
Chaetoderma sp. A
Wireniidae spp.
Neomeniomorpha sp. D, sp. E, sp. G

ARTHROPODA
ARACHNIDA
*Acarina

PYCNOGONIDA
Anoplodactylus lentus
Wilson, 1878
Anoplodactylus sp. A
Nymphon grossipes
Kröyer, 1780

CRUSTACEA
CEPHALOCARIDA
Hutchinsoniella macracantha
Sanders, 1955

OSTRACODA
*Myodocopa

CIRRIPEDIA
Balanus spp.

MALACOSTRACA
Stomatopoda
Lysiosquillidae
Platysquilla enodis
(Mannings, 1962)

Cumacea

Bodotriidae
Mancocuma stellifera Zimmer, 1943
Pseudoleptocuma minor
(Calman, 1912)

Diastylidae
Diastylis abbreviata Sars, 1871
Diastylis cornuifer (Blake, 1929)
Diastylis lucifera (Kröyer, 1841)
Diastylis polita (S.I. Smith, 1879)
Diastylis quadrispinosa
(Sars, 1871)
Diastylis sculpta Sars, 1871
Diastylis sp. A, sp. C
Leptostylis longimana (Sars, 1865)
Leptostylis sp. A

Lampropidae
Lamprops quadriplicata S.I. Smith, 1879
Lamprops sp. A

Leuconidae
Eudorella pusilla Sars, 1871
Eudorellopsis deformis (Kröyer, 1846)

Nannastacidae
Campylaspis affinis Sars, 1870
Campylaspis rubicunda (Lilljeborg, 1855)
Campylaspis sp. A

Pseudocumatidae

Petalosarsia declivis (Sars, 1865)

Tanaidacea
Paratanaidae
Pseudoleptochelia filum (Stimpson, 1853)
Tanaissus lilljeborgi (Stebbing, 1871)
Typhlotanais cf. cornutus G.O. Sars, 1885
Tanaidacea sp. A, sp. B, sp. C

Isopoda
Anthuridae
Ptilanthura tricarina Menzies & Frankenberg, 1966
Ptilanthura sp. A

Aselloidea
Aselloidea sp. A

Bopyridae
Hemiarthrus abdominalis (Kröyer)

Cirolanidae
Cirolana borealis Lilljeborg, 1851
Cirolana polita (Stimpson, 1853)

Cryptoniscidae
Cryptoniscidae sp. A

Desmosomatidae
Desmosomatidae sp. A

Eurycopidae
Eurycope mutica Sars, 1863

Idoteidae
Chiridotea arenicola Wigley, 1960
Chiridotea tuftsi (Stimpson, 1853)
Edotea acuta Richardson, 1900
Edotea triloba (Say, 1818)
Edotea sp. B

Janiridae
Janira alta (Stimpson, 1853)
Janira sp. A

Munnidae
Munna fabricii Kröyer, 1846-1849
Munna sp. B
Paramunna sp. A
Pleurogonium inerme Sars
Pleurogonium spinosissmum (Sars, 1865)
Munnidae sp. A

Isopoda sp. C

Amphipoda - Hyperiidea
Hyperiidae
*Hyperia galba (Montagu)
*Parathemisto gaudichaudii (Guerin, 1825)

Amphipoda - Gammaridea
Argissidae
Argissa hamatipes (Norman, 1869)

Ampeliscidae
Ampelisca agassizi (Judd, 1896)
Ampelisca macrocephala Lilljeborg, 1852
Ampelisca vadorum Mills, 1963
Byblis serrata (Smith, 1873)
Byblis sp. A
Haploops sp. A

Amphilochidae
Amphilochus tenuimanus Boeck, 1871
Amphilichoides sp. A

Gitana cf. sarsi Boeck, 1871
Gitana sp. A
Gitanopsis cf. inermis (Sars, 1882)
Paramphilochoides odontonyx (Boeck, 1871)

Aoridae
Leptocheirus pinguis (Stimpson, 1853)
Microdeutopus anomalus (Rathke, 1843)
Pseudunciola obliquua (Shoemaker, 1949)
Unciola inermis Shoemaker, 1945
Unciola irrorata Say, 1818
Unciola spicata Shoemaker, 1945
Aoridae sp. A

Calliopiidae
*Calliopius laeviusculus (Kröyer, 1838)
*Haliragoides inermis (Sars, 1882)

Corophiidae
Corophium acutum Chevreux, 1908
Corophium crassicorne Bruzelius, 1859
Erichthonius fasciatus (Stimpson, 1853)
Siphonoecetes colletti (Myers & McGrath, 1979)

Eusiridae
*Rhachotropis inflata (G.O. Sars, 1882)

Haustoriidae
Acanthohaustorius intermedius Bousfield, 1965
Acanthohaustorius millsi Bousfield, 1965
Acanthohaustorius shoemakeri Bousfield, 1965
Acanthohaustorius similis Frame, 1980
Acanthohaustorius spinosus Bousfield, 1962
Bathyporeia quoddyensis Shoemaker, 1949
Parahaustorius attenuatus Bousfield, 1965
Parahaustorius longimerus Bousfield, 1965
Protohaustorius wigleyi Bousfield, 1965
Pseudohaustorius carolinensis Bousfield, 1965

Ischyroceridae
Ischyrocerus sp. A, sp. B

Liljeborgidae
Idunella bowenae Karaman, 1983

Lysianassidae
Anonyx liljeborgi Kröyer, 1870
Anonyx sp. A
Hippomedon serratus Holmes, 1903
Hippomedon sp. A
Lepidepecreum sp. A
Orchomene minute Kröyer, 1846
Orchomene sp. A
Psammonyx terranovae Steel, 1979
Lysianassidae sp. A, sp. C

Melitidae
Casco bigelowi (Blake, 1929)
Eriopisa elongata (Bruzelius, 1859)
Jerbarnia americana Watling, 1981
Melita dentata Kröyer, 1842
Melita sp. A
Melitidae sp. B

Melphidippidae
Melphidippa cf. borealis Boeck, 1870

Oedicerotidae
Monoculodes edwardsi Holmes, 1905
Monoculodes packardi Boeck, 1871
Monoculodes sp. A, sp. E (=Monoculodes sp. A, Watling, 1979)
Synchelidium americanum Sars, 1892
Oedicerotidae sp. A

Paramphithoidae
Epimeria obtusa Watling, 1981

Photidae
*Gammaropsis nitida
(Stimpson, 1853)
Gammaropsis sophiae (Boeck, 1861)
Photis dentata Shoemaker, 1945
Photis pollex (Walker, 1895)
Photis reinhardi Kröyer, 1842
Photidae sp. A

Phoxocephalidae
Harpinia propinqua G.O. Sars, 1891
Harpinia truncata G.O. Sars, 1891
Phoxocephalus holbolli Kröyer, 1842
Rhepoxynius hudsoni
Barnard & Barnard, 1982

Platyischnopidae
Skaptopus brychius
Thomas & Barnard, 1983

Pleustidae
Pleusymtes glaber Boeck, 1861
Stenopleustes gracilis
Holmes, 1905
Stenopleustes inermis
Shoemaker, 1949
Pleustidae sp. A, sp. B

Podoceridae
*Dyopedos monacanthus
(Metzger, 1875)

Pontogeneiidae
*Pontogeneia inermis
(Kröyer, 1842)

Stegocephalidae
*Andaniopsis nordlandica
(Boeck, 1871)

Stenothoidae
Metopa cf. borealis Sars
Metopella angusta
Shoemaker, 1949
*Parametopella cypris
(Holmes, 1905)
*Proboloides holmesi
Bousfield, 1973

*Amphipoda sp. A, sp. B, sp. C,
sp. G, sp. I, sp. J

Amphipoda - Caprellidea
Caprellidae
*Aeginella spinosa Boeck, 1861
*Aeginina longicornis
(Kröyer, 1842-43)
*Caprella linearis
(Linnaeus, 1767)
*Caprella unica Mayer, 1903
*Mayerella cf. limicola
Huntsman, 1915

Mysidacea
Mysidae
*Erythrops erythrophthalma
(Goës, 1863)
*Heteromysis formosa
Smith, 1873
*Mysidopsis bigelowi
Tattersall, 1926
*Pseudomma sp. A
*Mysidacea sp. A

Euphausiacea
*Meganyctiphanes norvegica
(Sars, 1857)

Decapoda
Caridea
Natantia
Crangonidae
Crangon septemspinosa
Say, 1818
Pontophilus brevirostris
Smith, 1881

Hippolytidae
Eualus pusiolus Kröyer
Hippolytidae sp. A

Palaemonidae
*Palaemonetes spp.

Pandalidae
Dichelopandalus leptoceras
(Smith, 1881)
Pandalus borealis Kröyer, 1838
Pandalus montagui Leach, 1813

Pasiphaeidae
Leptochela serratorbita
Bate, 1888

Sergestidae
Lucifer faxoni
Borradaile, 1915

Reptantia
Anomura
Axiidae
Axiidae sp. A, sp. B

Galatheidae
Munida iris Edwards, 1880
Galatheidae sp. A

Paguridae
Pagurus acadianus
Benedict, 1901
Pagurus annulipes
Stimpson, 1860
Pagurus arcuatus
Squires, 1964
Pagurus longicarpus
Roberts, 1970
Pagurus politus
(Smith, 1882)
Pagurus pubescens
Kröyer, 1838
Pagurus sp. B

Brachyura
Canceridae
Cancer borealis Stimpson, 1859
Cancer irroratus Say, 1817

Majidae
Euprognatha rastellifera marthae
Rathbun, 1925
Hyas coarctatus Leach, 1815

Ocypodidae
*Ocypode quadrata
(Fabricius, 1787)

ECTOPROCTA
*Alcyonidium parasiticum
(Fleming, 1826)
*Alcyonidium polyoum
(Hassall, 1841)
*Amphiblestrum flemingii
(Busk, 1854)
*Amphiblestrum osburni
Powell, 1968
*Amphiblestrum trifolium
(Wood, 1844)
*Bicellariella ciliata (L., 1758)
*Bowerbankia gracilis Leidy, 1855
*Bugula stolonifera Ryland, 1960
*Callopora aurita (Hincks, 1877)
*Callopora craticula (Alder, 1957)
*Callopora dumerilii
(Audouin, 1826)
*Callopora lineata (L., 1767)
*Cribilina punctata
(Hassall, 1841)
*Crisia eburnea (L., 1758)
*Cryptosula pallasiana (Moll, 1803)
*Dendrobeania murrayana
(Johnston, 1847)
*Diaperoecia harmeri Osburn, 1933
*Diplosolen obelia
(Johnston, 1838)
*Electra arctica Borg, 1931
*Electra pilosa (L., 1767)
*Escharella ventricosa
(Hassall, 1842)
*Eucratea loricata (L., 1758)
*Flustrellidra hispida
(Fabricius, 1780)
*Haplota clavata (Hincks, 1857)
*Hipporina pertusa (Esper, 1791)
*Hippothoa divaricata
Lamouroux, 1821
*Idmonea atlantica
(Johnson, 1847)
*Lichenopora hispida
(Fleming, 1828)
*Membranipora tenuis Desor, 1848
*Membranipora tuberculata
(Bosc, 1802)
*Microporina sp. A
*Nolella sp. A
*Parasmittina nitida (Verrill, 1875)
*Porella reduplicata (Osburn, 1933)
*Schizomavella auriculata
(Hassall, 1842)
*Schizoporella biaperta
(Michelin, 1841)
*Schizoporella unicornis
(Johnston, 1847)
*Tegella unicornis (Fleming, 1928)
*Walkeria sp. A

ECHINODERMATA

ECHINOIDEA

Brisaster fragilis (Duben & Koren, 1845)
Echinarachnius parma (Lamarck, 1816)
Echinocardium flavescens (O. Müller)
Echinoidea sp. B (juvenile)
Spatangoidea spp. (juveniles)

OPHIUROIDEA

Amphilimna olivacea (Lyman, 1869)
Amphioplus macilentus (Verrill, 1882)
Amphipholis squamata (delle Chiaje, 1828)
Ophiopholis aculeata (L., 1767)
Ophiura robusta (Ayres, 1851)
Ophiuroidea sp. B (juvenile), sp. C (juvenile)

CRINOIDEA

Hathrometra sp. A

ASTEROIDEA

Asterias vulgaris Verrill, 1866
Astropecten americanus Verrill, 1880
Leptasterias tenera (Stimpson, 1862)
Sclerasterias tanneri (Verrill, 1880)
Stephanasterias albula (Stimpson, 1853)
Asteroidea sp. B (juvenile), sp. C (juvenile)

HOLOTHUROIDEA

*Cucumaria frondosa (Gunnerus, 1770)
Duasmodactyla commune (Forbes, 1841)
Havelockia scabra (Verrill, 1873)
Labidoplax buskii (McIntosh, 1866)

HEMICHORDATA

Enteropneusta sp. A, sp. B, sp. D, sp. E, sp. F, sp. G, sp. H, sp. I

CHORDATA

UROCHORDATA

*Ascidia cf. obliqua Alder, 1863
*Bostrichobranchus pilularis (Verrill, 1871)
Ascidiacea sp. A*, sp. B*, sp. C, sp. D*

VERTEBRATA

*Ammodytes americanus De Kay, 1842
*Anguilla rostrata (LeSueur, 1817)
*Lepophidium cervinum (Goode & Bean, 1885)
*Neoliparis atlanticus (Jordan & Evermann, 1898)
*Ophichthus cruentifer (Goode & Bean, 1896)
*Scomber scombrus L., 1758
*Urophycis chuss Walbaum, 1792

APPENDIX C

TABLE C-1. SPECIES RETAINED AS VOUCHER SPECIMENS FROM DREDGE OR TRAWL SAMPLES FROM REGIONAL STATION 2.

	11/81 (M2)	2/82 (M3)	5/82 (M4)	7/82 (M5)	11/82 (M6)	2/83 (M7)	5/83 (M8)
PORIFERA							
Haliclona oculata (Pallas, 1766)		X					
Polymastia robusta Bowerbank, 1860	X	X					
CNIDARIA							
Hydrozoa							
Campanularia gigantea Hincks, 1865		X					
Sertularella minuscula Billard, 1924	X						
Sertularella tricuspidata (Alder, 1856)		X					
Thuiaria cupressina (L., 1758)	X	X					
Tubularia couthouyi Agassizi, 1862		X					
MOLLUSCA							
Gastropoda							
Buccinum undatum L., 1758		X					
Colus pubescens (Verrill, 1882)		X		X			
Colus stimpsoni (Mörch, 1867)	X						
Bivalvia							
Arctica islandica (L., 1767)	X	X					
Cyclocardia borealis (Conrad, 1831)	X	X					
Palliolum sp. A	X						
Placopecten magellanicus (Gmelin, 1791)		X					
ARTHROPODA							
Amphipoda							
Aeginina longicornis (Kröyer, 1842-43)		X					
Caprella unica Mayer, 1903		X					
Erichthonius fasciatus (Stimpson, 1853)		X					
Decapoda							
Crangon septemspinosa Say, 1818		X					
Pagurus acadianus Benedict, 1901		X					
Pelia sp.		X					
ECTOPROCTA							
Flustrellidra hispida (Fabricius, 1780)	X						
Electra pilosa (L., 1767)	X						
Canloramphus cymbaeformis (Hincks, 1877)	X						
ECHINODERMATA							
Echinoidea							
Echinarachnius parma (Lamarck, 1816)	X	X					
Asteroidea							
Asterias vulgaris Verrill, 1866	X	X					
Leptasterias tenera (Stimpson, 1862)		X					
Sclerasterias tanneri (Verrill, 1880)	X						
Henricia sp.				X			
Holothuroidea							
Stereoderma unisemita (Stimpson, 1851)		X					
CHORDATA							
Vertebrata							
Raja erinacea Mitchell, 1925		X					
Urophycis chuss (Walbaum, 1792)		X					

TABLE C-2. SPECIES RETAINED AS VOUCHER SPECIMENS FROM DREDGE OR TRAWL SAMPLES FROM REGIONAL STATION 7.

	11/81 (M2)	2/82 (M3)	5/82 (M4)	7/82 (M5)	11/82 (M6)	2/83 (M7)	5/83 (M8)
MOLLUSCA							
Bivalvia							
Arctica islandica (L., 1767)	X						
ARTHROPODA							
Crustacea							
Decapoda							
Munida iris Milne Edwards, 1880	X	X					
Pagurus politus (Smith, 1882)	X						
Bathynectes superbus (Costa, 1838)		X					
ECHINODERMATA							
Asteroidea							
Asterias vulgaris Verrill, 1866	X						

TABLE C-3. SPECIES RETAINED AS VOUCHER SPECIMENS FROM DREDGE OR TRAWL SAMPLES FROM REGIONAL STATION 13.

	11/81 (M2)	2/82 (M3)	5/82 (M4)	7/82 (M5)	11/82 (M6)	2/83 (M7)	5/83 (M8)
NEMERTEA							
Cerebratulus sp.	X						
ANNELIDA							
Polychaeta							
Aricidea catherinae Laubier, 1967	X						
Chone infundibuliformis Kröyer, 1856	X						
Cossura longocirrata Webster & Benedict, 1887	X						
Harmothoe extenuata (Grube, 1840)	X						
Lumbrineris fragilis (Müller, 1776)	X						
Nephtys incisa Malmgren, 1865	X						
Ninoe nigripes Verrill, 1873	X						
MOLLUSCA							
Gastropoda							
Colus stimpsoni (Mörch, 1867)	X						
Illex illecebrosus (LeSueur, 1821)				X			
ARTHROPODA							
Crustacea							
Amphipoda							
Ampelisca agassizi (Judd, 1896)	X						
Anonyx liljeborgi Kröyer, 1870	X						
Unciola irrorata Say, 1818	X						
Decapoda							
Cancer borealis Stimpson, 1859	X						
ECHINODERMATA							
Asteroidea							
Asterias vulgaris Verrill, 1866	X						
Leptasterias tenera (Stimpson, 1862)	X						
CHORDATA							
Vertebrata							
Poronotus triacanthus (Peck, 1800)					X		

TABLE C-4. SPECIES RETAINED AS VOUCHER SPECIMENS FROM DREDGE OR TRAWL SAMPLES FROM SITE-SPECIFIC STATION 5-1.

	11/81 (M2)	2/82 (M3)	5/82 (M4)	7/82 (M5)	11/82 (M6)	2/83 (M7)	5/83 (M8)
MOLLUSCA							
Bivalvia							
Cyclocardia borealis (Conrad, 1831)	X						
ECTOPROCTA							
Eucratea loricata (L., 1758)	X						
ECHINODERMATA							
Asteroidea							
Asterias vulgaris Verrill, 1866	X						
Leptasterias tenera (Stimpson, 1862)	X						

TABLE C-5. SPECIES RETAINED AS VOUCHER SPECIMENS FROM DREDGE OR TRAWL SAMPLES FROM SITE-SPECIFIC STATION 5-18.

	11/81 (M2)	2/82 (M3)	5/82 (M4)	7/82 (M5)	11/82 (M6)	2/83 (M7)	5/83 (M8)
CNIDARIA							
Hydrozoa							
Thuiaria cupressina (L., 1758)		X					
Tubularia couthouyi Agassizi, 1862		X					
MOLLUSCA							
Bivalvia							
Arctica islandica (L., 1767)	X	X					
Cyclocardia borealis (Conrad, 1831)	X	X					
ARTHROPODA							
Decapoda							
Cancer borealis Stimpson, 1859		X					
Cancer irroratus Say, 1817	X						
ECTOPROCTA							
Eucratea loricata (L., 1758)		X					
Electra pilosa (L., 1767)		X					
ECHINODERMATA							
Echinoidea							
Echinarachnius parma (Lamarck, 1816)	X	X					
Asteroidea							
Asterias vulgaris Verrill, 1866	X	X					
Leptasterias tenera (Stimpson, 1862)	X	X					
Holothuroidea							
Cucumaria frondosa (Gunnerus, 1770)	X						
CHORDATA							
Vertebrata							
Squalus acanthus Linnaeus, 1758*				X			
Urophycis chuss (Walbaum, 1792)	X						

*Collected at Site-Specific Station 5-15.

TABLE C-6. SPECIES RETAINED AS VOUCHER SPECIMENS FROM DREDGE OR TRAWL SAMPLES FROM SITE-SPECIFIC STATION 5-28.

	11/81 (M2)	2/82 (M3)	5/82 (M4)	7/82 (M5)	11/82 (M6)	2/83 (M7)	5/83 (M8)
CNIDARIA							
Hydrozoa							
Hydrallmania falcata (L., 1758)		X					
Thuiaria cupressina (L., 1758)		X					
ANNELIDA							
Polychaeta							
Glycera dibranchiata Ehlers, 1868		X					
Lumbrineris fragilis (Müller, 1776)		X					
Ophelina acuminata Oersted, 1843		X					
MOLLUSCA							
Bivalvia							
Cyclocardia borealis (Conrad, 1831)	X	X					
ARTHROPODA							
Decapoda							
Cancer borealis Stimpson, 1859		X					
Cancer irroratus Say, 1817	X						
Pagurus acadianus Benedict, 1901		X					
ECHINODERMATA							
Echinoidea							
Echinarachnius parma (Lamarck, 1816)	X						
Asteroidea							
Asterias vulgaris Verrill, 1866	X	X					
Leptasterias tenera (Stimpson, 1862)	X	X					
Holothuroidea							
Cucumaria frondosa (Gunnerus, 1770)	X						
CHORDATA							
Vertebrata							
Paralichthys oblongus (Mitchill, 1815)			X				
Glyptocephalus cynoglossus (L., 1758)*				X			

*Collected between Site-Specific Stations 5-14 and 5-22.

APPENDIX D

APPENDIX D

ANNOTATED SPECIES LIST

PORIFERA

Calcarea sp. A

Resembling Sycon in being solitary tubes yet lacking long spicule fringe around osculum. Resembles Leucosolenia but differs in having a rough or tufted surface texture.

Suberitidae sp. A

An encrusting form with large tylostyles, with the rounded end next to substratum but differing in having spirasters as microscleres. Small sponge always found encrusting sand grains. Most common sponge.

CNIDARIA: HYDROZOA

Eucopella sp. A

Characterized by a very large gonophore. Similar to Eucopella caliculata except hydrothecal margin toothed instead of entire.

Eudendrium sp. A

Specimens incomplete but agreeing with genus Eudendrium.

Halecium sp. B

Overall structure similar to Halecium articulosum but differing in that hydrophores alternate at 90° angles to one another, whereas hydrophores of H. articulosum alternate at a full 180° to one another.

Lafoea dumosa (Fleming, 1824)

This species was designated as Halecium sp. C in our previous reports.

Lovenella sp. A

Resembling Lovenella grandis in shape and structure but much smaller.

Thuiaria cupressina (L., 1758)

This species is the most common hydrozoan at our Georges Bank stations.

CNIDARIA: ANTHOZOA

A reference collection of anthozoans identified during the Georges Bank study was examined by Dr. Kenneth Sebens, Museum of Comparative Zoology, Harvard University. Several of the identifications were confirmed, and some categories were combined. The following notes refer mostly to the more common anthozoans present in our samples.

Actinauge longicornis Verrill, 1882

This species was common at our Georges Bank stations. This species designation includes the previously listed taxa Anthozoa sp. B, Anthozoa sp. D and Hexactiniae sp. B.

Ceriantheopsis americanus Verrill, 1866

This species was common at some stations. All of the specimens collected were relatively small, although we often saw pieces of large tubes of this species. The larger animals probably escaped collection by moving quickly down the tubes.

Edwardsia elegans Verrill, 1869

This species is a burrower. The taxa Edwardsia sp. A and sp. C, listed as separate species in previous years, have been determined by Dr. Sebens to be E. elegans.

Halcampa duodecimcirrata (Sars, 1851)

This is the correct identification of the specimens designated as Halcampidae sp. A in our previous reports.

Paracalliactis involvans (McMurrich, 1893)

This is the correct identification of the specimens formerly called Anthozoa sp. G.

Peachia sp.

This is a damaged specimen previously identified as Hexactiniae sp. A.

Anthozoa sp. H and sp. J

These are two unusual species that Dr. Sebens thinks are new to the northwest Atlantic Ocean. On the basis of his evaluation, Anthozoa sp. A has been combined with sp. J.

NEMERTEA

Most nemerteans are very difficult if not impossible to identify unless sectioned.

Lineus spp.

Specimens without caudal cirrus; with longitudinal cephalic grooves.

Micrura spp.

Specimens with caudal cirrus present and without thin lateral margins.

Monostylifera sp. A

Specimens with stylet. Rare.

ANNELIDA: POLYCHAETA

AMPHARETIDAE

Asabellides sp. A

Four pairs branchiae; with long dorsal neuropodial cirrus; peristomium narrow; one pair long anal cirri and short papillae.

Eclysippe sp. A

Paleae present; with three pairs branchiae; 12 thoracic uncinigers; with ventral glandular band on setiger 5.

Lysippe sp. A

Short paleae on segment 3. With four pairs branchiae; anal cirri with two eyes; with enlarged notopodial lobes on setiger 10.

Samythella sp. A

Paleae absent; with three pairs branchiae; 12 thoracic uncinigers; without notopodial rudiments.

Ampharetidae, new genus, new species A

Paleae present; with four pairs branchiae; 12 thoracic uncinigers; with notopodial rudiments.

Ampharetidae, new genus, new species B

Paleae absent; with three pairs branchiae; 11 thoracic uncinigers; with notopodial rudiments.

Ampharetidae, new genus, new species C

Paleae reduced; with four pairs branchiae; two thoracic uncinigers; enlarged notopodia with long brushtipped setae on last thoracic setiger.

Ampharetidae, new genus, new species D

Paleae absent; with two pairs branchiae and one pair nephridia; 13 thoracic uncinigers; several dark eyes.

APHRODITIDAE

Aphrodita hastata Moore, 1905

Juveniles with neurosetae having basal spur and few marginal teeth; thus intermediate between typical A. hastata and the European A. aculeata.

ARABELLIDAE

Arabella sp. A

Prostomium without eyes; simple limbate capillaries present, lacking denticulation at base of winged plate; upper edge of mandibles smooth; anterior parapodial lobes appear receded into body wall.

Drilonereis longa Webster, 1879

Anterior parapodia reduced to swelling; middle parapodia with short presetal lobe, long postsetal lobe; posterior parapodia with presetal lobe short to slightly subequal to the long postsetal lobe; limbate setae with long capillary tips. Number of teeth on maxillary apparatus: MI, 4-6; MII, 4-5; MIII, 1. May be confused with D. n. sp. A (see below).

Drilonereis n. sp. A

Anterior parapodia with presetal lobe absent, postsetal lobe short; middle parapodia with presetal lobe short, postsetal lobe long; posterior parapodia with presetal lobe slightly subequal to long postsetal lobe; limbate capillary setae with long limbations and short capillary tip. Number of teeth on maxillary aparatus: MI, 2-3, MII, 2-3, MIII, 2. Similar to D. minor in having few teeth on the first and second pairs of maxillae, but differs in having well-developed postsetal parapodial lobes throughout the body.

Drilonereis n. sp. B

Parasitic in Aricidea catherinae. Unusual in having a reduced number of teeth on the first and second pairs of maxillae. The parapodea are bilabite, especially in posterior setigers.

Drilonereis n. sp. D

Parasitic in cirratulid polychaetes of the genus Tharyx. It has a reduction in the parapodial lobes in posterior segments from a distinctly bilabiate condition in anterior segements to their total absence posteriorly.

Haematocleptes sp. A

Yellow acicular spines not projecting in smaller specimens; setae absent in smaller specimens; present reduced, shrunken in appearance in larger specimen; maxillary apparatus reduced to maxillary carriers with small, vestigal, fused mass above it; mandibles well developed; anterior parapodia bilabiate; one specimen found parasitic in Lumbrinerides acuta.

CAPITELLIDAE

Barantolla sp. A

Setal formula: $\frac{6C}{0+5C} + \frac{h}{h}$; not a juvenile Capitella.

Capitella jonesi (Hartman, 1959)

Setal formula: $\frac{3C}{3C} + \frac{h}{h}$ ....; corresponds to Grassle and Grassle (1977) Type III.

Mediomastus fragilis Rasmussen, 1973

Without capillaries in abdominal notopodia; 2 eyes present. (See Warren, 1979).

CHRYSOPETALIDAE

Dsyponetus sp. A

The single specimen collected from Station 8 was originally identified and listed in previous reports as Dysponetus gracilis Hartman. A reexamination of the specimen revealed that this specimen differed from D. gracilis in having elongate, tapering antennae rather than short and round antennae, in having neurosetae from setiger 2 rather than setiger 1, and in having rather than lacking eyes.

CIRRATULIDAE

Caulleriella n. sp. B

Prostomium very acute, with large dark eyes; bifid hooks numbering 2-3 per ramus; body smooth; gills tending to curl in preservation; pygidium with 2 anal cirri. Common at Station 5-1 at 80 m.

Caulleriella n. sp. C

Prostomium short, not acute, darkly pigmented, with two pairs of indistinct eyes; bifid hooks numbering 3-6 per ramus; hooks in far posterior setigers worn down to unidentate appearance; two anal cirri present. Found only at Station 14 in the Gulf of Maine.

Chaetozone n. sp. A

Spines all acicular, not forming complete cinctures; pygidium a flattened disc. Common at deeper stations, 140-160 m.

Chaetozone n. sp. B

Similar to Chaetozone sp. A, but with both bifid hooks and blunt spines forming partial cinctures around the posterior end; with anal disc.

Dodecaceria n. sp. A

Most closely resembles D. diceria Hartman (1951) from Gulf of Mexico in having modified setae with ribs, not spoon-shaped. Differs from D. diceria in details of the setal structure.

Dodecaceria sp. B

Modified setae are spoon-shaped. Found at Station 5-25.

Tharyx acutus Webster & Benedict, 1887

Palps arising anterior to setiger 1; thoracic region not inflated; posterior end broad, with ventral depression; with short knob-tipped setae in posterior setigers directed toward ventral channel.

Tharyx annulosus Hartman, 1965

Palps arising on anterior edge of setiger 1; thoracic region slightly inflated, some segments pigmented ventrally; serrated capillary setae broad, with deep denticulations; posterior end weakly inflated.

Tharyx dorsobranchialis Kirkegaard, 1959

Prostomium very elongated, palps anterior to setiger 1; thoracic region strongly inflated, not pigmented; with lightly serrated capillaries; branchiae and parapodia dorsally elevated, forming medial channel in thorax. New to North America.

Tharyx cf. monilaris Hartman, 1960

Palps arising just anterior to setiger 1; body with an expanded thoracic region and bead-like abdominal segments; all capillaries smooth, not serrated. A California species; new to eastern North America.

Tharyx n. sp. A

Palps arise over junction of peristomium and setiger 1; body circular in cross section throughout; setae few posteriorly, with simple blades, very thin, no serrations but may fray when bent; prostomium short; posterior end tapered. Common at site-specific stations.

Tharyx sp. D

Body greatly distended; palps arising just anterior to setiger 1; capillary notosetae narrow, smooth; some long natatory setae present; neurosetae shorter, thicker, curved, with serrations or fine saw-tooth edge. Found at Station 17 in 145 m.

Tharyx sp. E

Resembles Tharyx sp. A in general appearance, but is much larger; posterior segments with broad, finely serrated setae. Found at Station 14 in the Gulf of Maine.

DORVILLEIDAE

Dorvillea sp. A

Specimens incomplete; parapodia as for Dorvillea or Schistomeringos, but furcate setae not evident.

Ophryotrocha sp. A

Small, rare, not fully characterized. With heterogomph falcigers and simple setae. Mandibles with saw-toothed edge.

Ophryotrocha sp. B

Small, rare, not well-characterized. Heterogomph falcigers present; mandibles with irregular edges. Antennae appear truncated, as if broken.

Schistomeringos spp. A, B, and D

These three taxa reported in Year 1 have been lumped with Schistomeringos caeca (Webster & Benedict, 1884).

Schistomeringos sp. C

Furcate setae with brush-tipped tines, 1/2 - 2/3 length ratio.

Dorvilleidae sp. A

Twelve setigers; one pair of palps; antennae lacking; two anal cirri. Without simple setae. Found at Stations 5-16 and 5-20.

EUNICIDAE

Eunice vittata (delle Chiaje, 1828)

Pigment spots on parapodia beginning on setiger 10-15, near area of gill attachment. Juveniles identified in earlier reports as Eunicidae sp. A. Northern range extension.

Marphysa cf. stylobranchiata (Moore, 1909)

Previously reported as Marphysa sp. A. Larger specimens with five short antennae; single gill filament starting from setiger 22-24, continuing along length of body, absent from posterior 25 setigers; tentacular cirri absent; subacicular dentition dark, unidentate and blunt; hooks of composite falcigers bifid, hoods rounded; pygidium bears a pair of long tapering ventral cirri and a pair of minute cirri below the longer pair.

FLABELLIGERIDAE

cf. Flabelligera affinis Sars, 1829

Specimens are small and one from Station 18 is ovigerous. Cephalic cage formed by neuro- and notosetae of first segment; cage setae long and annulated; body transluscent, no mucoid sheath present; composite neurosetae from setiger 2, setae with long blades and shaft. Papillae long and pedunculate on some specimens.

Pherusa cf. falcata (Støp-Bowitz, 1947)

Four segments with cephalic cage setae; neurosetae differ from P. falcata in form of the pseudocomposite setae.

Pherusa plumosa (Müller, 1776)

With stout simple hooks; cephalic cage with three setigers; setae have very slight structural inconsistency - a faint line. Tenuous identification.

Pherusa sp. A

With variable number of cephalic cage segments (1-4) depending on size; setae appearing pseudocomposite, dependent on size; may have four anterior segments with forwardly directed setae consisting of typical cephalic cage setae and composite hooks; possibly juvenile of Pherusa falcata or P. plumosa.

Flabelligeridae sp. A

Anterior three segments form a small cephalic cage, but setae are same length as rest of setae on body. All setae are simple annulated capillaries. Papillae pedunculate, include long and short forms. Body tapers posteriorly; some specimens have lost the tapering posterior end. One complete specimen with 32 segments. Probably in the genus Diplocirrus. Found at Station 14A.

GLYCERIDAE

Glycera n. sp. A

Similar to Glycera sp. A of Gardiner (1976); without branchiae.

GONIADIDAE

Goniada n. sp. A

Neuropodial presetal lobe bilobed from setiger 3; 58-62 uniramous parapodia, biramous parapodia from setiger 62; subdermal eyes; 3-5 pair chevrons; short proboscidial organs; posterior notopodium with several slender capillaries; compound serrated spinigers in neuropodium; no anal cirri.

HESIONIDAE

Gyptis sp. A

A small, fragile species occurring in depths of 60-140 m. Eight pairs easily lost tentacular cirri. Three antennae, center one closest to a frontal attachment, these also easily lost. Frontal attachment could possibly put this into a different genus although none exist into which these specimens would fit. Setae from second segment. More than six notosetae per bundle, therefore is not G. vittata. Notosetae are annulated capillaries; neurosetae are heterogomph falcigers. Dorsal cirri biarticulated along length of body; dorsal cirri shorter than parapodia and setae. Includes specimens previously reported as Hesiondae n. gen. n. sp. A.

Gyptis sp. B

A moderate-sized species occurring in muddy sediments in about 80 m. Prostomium with two pairs of eyes; medial antenna located anterior to anteriormost pair of eyes, but not completely frontal in location. Tentacular cirri all articulated; dorsal cirri long, articulated, with dark pigment; ventral cirri short, cirriform. Closely related to G. vittata.

Microphthalmus listensis Westheide, 1967

New to New England or may actually be an undescribed species (Westheide, personal communication). Differs from M. sczelkowii in having dorsal and ventral cirri much longer than podial lobe, rather than subequal.

Microphthalmus sp. A

Notosetae include one aciculum per fascicle; neurosetae are compound. Dorsal and ventral cirri slightly shorter than tentacular cirri. Found at Station 10.

LUMBRINERIDAE

Lumbrinerides acuta (Verrill, 1875)

Position (setiger number) of first hooded hook directly correlated to length of animal, first appearing in setiger 1 of juveniles; in later segments in larger specimens.

Lumbrineris latreilli (Audouin & Milne Edwards, 1833) Variety

Blade length of composite setae variable (short and long); addition of composite setae to anterior parapodia increases as size of animal increases; Maxillae III unidentate (differs from bidentate condition in typical L. latreilli). Postsetal lobe digitiform, becoming more slender but not increasing in length in posterior segments, presetal lobe absent or reduced; prostomium conical; both anal cirri frequently bifid with unequal lengths. Juveniles appear to have simple setae and only two anal cirri.

Lumbrineris sp. B

Similar to Lumbrineris verrilli, but with shaft of hooded hook more swollen; posterior postsetal lobes of L. sp. B shorter than in L. verrilli; pygidium with two short and two long lobes.

Lumbrineris sp. C

Similar to Lumbrineris hebes. Prostomium small relative to size of body. Anterior hooded hooks look like limbate setae, but have extremely tiny teeth;

shortened in posterior setigers; hooks becoming larger and more like those of L. hebes. Maxillary carriers folded to various degrees. Max I = 1, Max II = 4-5?, Max III = 1, Max IV = 1 (broad plate).

Lumbrineris sp. D

Specimen 54 mm long, 3 mm wide. Mandible not fused. Max I = 1; Max II = 2,3; Max III = 2 (widely spaced); Max IV = 1. Prostomium conical with paired nuchal organs present near posterior margin. Postsetal lobe broadly conical becoming uniform in middle and posterior setigers; not increasing in length. Composite falcigers present from setigers 6 through 13, with blades 3-4 times longer than wide, with many small teeth and one larger fang inferiorly. Aciculum yellow. Pygidium with four cirri, dorsal pair longer.

Paraninoe brevipes (McIntosh, 1903)

A deep-water species with a single short gill from setiger 10 to 30 and with black acicula.

MALDANIDAE

Axiothella sp. B

Length 8 mm; 19 setigers, and five achaetous preanal segments. Eyes present. Anal cirri alternate in length, usually with one long followed by three short cirri. Cephalic rim high, round with two shallow posteriolateral notches and one shallow posterior notch, for a total of three notches. Rostrate uncini throughout, setiger 1 with one uncinus, setiger 2 with two uncini, setiger 3 with three uncini, increasing to five uncini in posterior setigers. Specimens stain differently than juveniles of Clymenella torquata, therefore this is not a juvenile of C. torquata with an undeveloped collar.

Axiothella sp. C

Twenty-two setigers and four achaetous preanal segments. Rostrate uncini throughout. Anal cirri all the same length.

Clymenura sp. A

Nineteen setigers and 2(-3?) achaetous preanal segments. Eyespots on prostomium. Triangular patch on setiger 8. Nuchal slits appear parallel. Cephalic rim with one notch on posteriolateral side. First three setigers with acicular spines with small teeth. Anal cirri uniform in length, except one which is longer. Anal cone sometimes projects slightly beyond the cirri. Differs from Clymenura polaris which has only one anal cirrus. Differs from Clymenura borealis which has a posterior incision on the cephalic plate and anal cirri all of different lengths.

Euclymene sp. A

Eyes present; cephalic rim high, with posterior notch; 22 setigers and two achaetous preanal segments; many short anal cirri and one long midventral cirrus; neurosetae as for Euclymene, except in juveniles. This is the same species as that designated E. collaris in Benchmark reports; a comparison of specimens collected in the two studies has been made.

Euclymene sp. B

Similar to Euclymene sp. A, except eyes lacking, no posterior notch in cephalic rim, floor of anal plaque level. Rare.

Isocirrus planiceps (Sars, 1872)

Agrees with description by Arwidsson (1907) rather than with that by Imajima and Shiraki (1982).

Maldanella sp. A

Nineteen setigers. Setiger 1 with notosetae only; neurosetae are all rostrate uncini. Cephalic rim with posteriolateral incision on each side. Anal cirri variable in length. Staining pattern: A) first two setigers and prostomium speckled, especially intense in presetal area on setigers 1 and 2, B) setiger 3 staining more darkly, especially presetally, C) setigers 4 - 7 very intensely speckled, D) staining in posterior region is primarily around the setal bundles. First found at Station 18 (145 m).

Euclymeninae sp. B

Cephalic plate well developed, rim low, shallowly incised laterally and posteriorly, nuchal organs short, distinct collar on setiger 4; anal funnel well developed, with larger mid-ventral cirrus and additional alternating long and short cirri; acicular spines on setigers 1-3.

Maldanidae sp. B

Eyes lacking; cephalic rim high with three incisions; spines in first three neuropodia; pygidium as for Heteroclymene robusta.

Maldanidae sp. C

Posterolateral margin of cephalic collar with about eight incisions; first three setigers with rostrate setae.

Maldanidae sp. E

Weak posterolateral incisions on cephalic plate; faint eye spots on ventrolateral cephalic plate; long ventral cirrus extending from anal funnel, with shorter cirri encircling margin.

Maldanidae sp. F

Incomplete specimens, but setiger 9 with distinctive, longitudinal stripes when stained. First 3-4 setigers with acicula in neuropodia. Cephalic rim with three indentations, two posterolateral and one posterior. First found at Station 12 (100 m).

Maldanidae sp. G

Two complete specimens, one with 37 setigers and no achaetous preanal segments, the second with 32 setigers and three achaetous preanal segments. No indentations on cephalic rim. Setigers 1-3 with acicular setae. One anal cirrus. Setigers 1-3 stain in speckled pattern, which is especially prominent in presetal region; setigers 4 to 7-9 stain completely. Found at Station 13A in the Mud Patch, and Stations 14 and 14A in the Gulf of Maine.

NEPHTYIDAE

Aglaophamus circinata (Verrill, 1874)

Juveniles without eyes; second antennae long. Adult characters as in Pettibone (1963).

Nephtys bucera Ehlers, 1868

Juveniles with eyes; second antennae short. Adult characters as in Pettibone (1963).

Nephtys incisa Malmgren, 1865

Juveniles without eyes; antennae crowded on anterolateral corners of prostomium. Adult characters as in Pettibone (1963).

Nephtys picta Ehlers, 1868

Juveniles with eyes; second antennae long. Adult characters as in Pettibone (1963).

NEREIDIDAE

Nereis grayi Pettibone, 1956

Most common nereid at our Georges Bank stations. We have found considerable variation in the paragnath pattern. In some cases they are nearly absent or so light in color they cannot be seen clearly. Includes specimen previously identified as cf. Rullierinereis sp. A.

Nereis cf. riisei Grube, 1856

Similar to N. riisei, but posterior notopodial homogomph falcigers with smooth instead of serrated blade.

Nereis zonata Malmgren, 1867

Individuals originally identified as Nereis sp. A and N. sp. G were later confirmed as N. zonata.

Nereis sp. B

Four eyes, anterior two are semicircular. Paragnath formula: IV - several, none on other areas. Posterior notopodial falcigers serrated. Tentacular cirri extend back to setigers 4-5. Dorsal notopodial ligules reduced in posterior region. Dorsal cirri equal in length to podial lobes in anterior region and longer in posterior region. Ventral cirri equal in length to podial lobes throughout.

ONUPHIDAE

Mooreonuphis pallidula (Hartman, 1965)

Composite bi-and tridentate falcigers on setigers 1-4; spinigers start on setiger 5-6, continuing to 12-28; bifid subacicular setae start on setigers 6-11 in juveniles and setigers 18-19 in larger forms. Ventral cirri cirriform until setiger 3, setiger 4 transitional. Psuedocomposite falcigers present from setiger 1, present in 2-4 setigers; spinigers present from setigers 4-6, continue to setiger 8-18; bifid subacicular hooks present from setigers 5-6, continue to end of body.

Nothria britannica (McIntosh, 1903)

Formerly identified as Nothria conchylega. Fauchald's (1982) revision of the Onuphis, Nothria, and Paradiopatra complex established the taxonomic characters to separate the two species. N. conchylega has been reported from the Western Atlantic by several authors but it is uncertain whether it actually occurs here (Fauchald pers. commn.). N. britannica differs from N. conchylega in having two instead of three setigers with psuedocompound hooks. N. britannica is known previously from the Shetland Islands in the North Atlantic Ocean.

Paronuphis sp. A

Juvenile, agrees with generic definition, but more specimens are needed to confirm a specific identification.

Rhamphobranchium sp. A

First three parapodia enlarged, equal in size and project forward; branchiae begin on setiger 11, with up to six filaments; ventral cirri cirriform on setiger 3, setiger 4 transitional; bidentate subacicular hooks begin on setigers 13-15. Pectinate setae and spinigers present, 3-4 large, slightly protruding acicular setae in anterior parapodia, occurring posterior to modified parapodia. Nine specimens were collected from 140-145 m.

Rhamphobranchium sp. B

Differs from R. sp. A in the following characters: first four parapodia enlarged, equal in size and appear capable of further expansion; branchiae begin on setiger 6, with 6-8 filaments; ventral cirri cirriform on setiger 5, setiger 6 transitional, bidentate subacicular hooks begin on setiger 19.

OPHELIIDAE

Ophelina sp. A

Similar to O. modesta Støp-Bowitz (1958). Anal funnel with terminal cirri and single ventral cirrus. Found at Station 18 (140 m).

Travisia sp. A

Setae all smooth capillaries. Branchiae begin on setiger 2, continue to setiger 24. Six anal lobes, up to four achaetous preanal segments. Differs from T. forbesii in having smooth rather than papillose skin, six rather than eight anal papillae, and smooth rather than hispid capillary setae.

Travisia sp. B

Setigers start in front of mouth, number 20, plus tail segment with up to four achaetous segments. No ventral goove. Setae all smooth capillaries. Branchiae start on setiger 3, continue to setiger 21. Found at Stations 16 and 17.

ORBINIIDAE

Leitoscoloplos sp. A

Prostomium appears more truncated than those of other species of Leitoscoloplos. Branchiae begin on setigers 8-12, somewhat rounded, not pointed. Ventral cirri (= subpodial papillae?) begin on setigers 8-11; only one ventral cirrus per side on each segment even in transitional region between thorax and abdomen. Ventral cirrus distinctive, round, constricted at point of attachment to body. Interramal cirri present. Abdominal neurosetae longer than notosetae. Occurs in depths of 80-140 m.

OWENIIDAE

Myriochele oculata Zaks, 1923

Eyes present, agrees with redescription by Blake and Dean (1973).

Myriochele sp. A

Thin, slender species; eyes lacking; tube and methyl green staining pattern similar to that of M. oculata.

Myriochele sp. B

Without eyes and with rounded prostomium; neurosetae start on setiger 3 and are offset; methyl green staining pattern different from M. oculata with greater stain around prostomium.

Myriowenia gosnoldi Hartman, 1965

Three incomplete specimens collected, two of which differ from Hartman's (1965) description in having anteriorly inflated prostomium instead of a narrow one and by having 14 and 23 setigers instead of 10. All three specimens have bidentate uncini with the long fang surmounted by a smaller second tooth. The presence of an inflated anterior end on some specimens suggests an artifact of preservation.

PARAONIDAE

Aricidea cf. belgica (Fauvel, 1936)

With short neuropodial postsetal lobes; branchiae broad, blunt-tipped, very glandular. Modified neurosetae very simple, nearly capillary in appearance with only a weakly developed arista.

Aricidea catherinae Laubier, 1967

The most common paraonid species at our Georges Bank stations. Includes specimens previously reported as Aricidea n. sp. C.

Aricidea longobranchiata Day, 1961

New record for eastern North America.

Aricidea wassi Pettibone, 1965

Includes specimens reported earlier as Aricidea sp. E and Paraonis sp. B.

Aricidea n. sp. A

Branchiae from setiger 5, continuing over several setigers; setae similar to those of A. suecica, antenna similar to that of A. catherinae. Very similar to Aricidea sp. G.

Aricidea n. sp. B

Median antenna short; branchiae short, rounded; setae with terminal arista as in A. suecica, A. claudiae, or A. hartmanae.

Aricidea n. sp. D

Median antenna long, unarticulated; branchiae from setiger 4, similar to those of A. catherinae except that posterior ones are not elongated; modified setae with distinct terminal arista.

Aricidea sp. F

Median antenna distinctly clavate. Branchiae begin on setiger 4 and continue for 13 to 17 setigers, becoming increasingly longer, then shorter for the last two or

three setigers of the branchial region. This pattern is similar to that seen in A. catherinae. Modified neurosetae with 2-5 convex hairs on the convex side of the shaft, and with one or a few hairs subterminally as in A. finitima or Paraonis fulgens.

Aricidea sp. G

Median antenna similar to that of A. catherinae. Branchiae start on setiger 5, continue for 10-17 setigers. Dorsal lobes flask-shaped in anterior and mid-branchial region, cirriform posteriorly. Modified neurosetae of two types: 1) some similar to those found in A. suecica and 2) one to a few similar to those found in A. catherinae, these not present in anterior postbranchial segments.

Levinsenia sp. A

Rare, not well characterized.

Paradoneis n. sp. A

Small threadlike species; branchiae lacking. Reproductive females with 2-3 very large eyes.

Paradoneis sp. B

Identified as Paradoneis lyra earlier in the Program. It differs from P. lyra in that the furcate setae have unequal tines and thick acicular setae are lacking in posterior neuropodia.

Paraonis n. sp. A

With 3-5 pairs thin, winglike branchiae from setiger 7; prebranchial region smooth, inflated; modified setae sharply hooked with distinct crest and hood.

Paraonis n. sp. C

Similar to P. fulgens. With brush-tipped notosetae among typical capillaries.

Paraonis n. sp. D

Possibly juveniles of Aricidea cf. belgicae.

PHYLLODOCIDAE

Cirrodoce cristata Hartman & Fauchald, 1971

New records; previously known only from single damaged specimen; should be referred to Clavodoce. With five antennae and four pairs tentacular cirri.

Eteone spetsbergensis Uschakov, 1953

Newly reported from Georges Bank. Most similar to E. lactea Claparède, 1868, but with slightly longer dorsal tentacular cirri and a different form to the prostimium and dorsal cirri. Relatively rare.

Genetyllis castanea (Marenzeller, 1879)

Newly reported from Georges Bank and the New England region. Often conspicuous with very bright orange colored dorsal cirri. We speculate that this species is rare in northern waters with larvae carried to Georges Bank in warm core eddies of the Gulf Stream.

Mystides borealis Théel, 1879

Common on Georges Bank. Characterized by having four very thin frontal antennae, a pair of large black eyes, three broad tentacular cirri which taper at the tips, and dorsal cirri which taper somewhat atypically.

Mystides caeca Langerhans, 1880

Rare on Georges Bank. Differs from M. borealis in lacking eyes, the tentacular cirri have a longer, tapering tip, and the dorsal cirri are entirely rounded at the tip.

Phyllodoce sp. A

An unusual species of Phyllodoce in having 4-5 distinct cusps among the soft papillae found on the basal part of the proboscis. Papillae and cusps arranged in 5-7 poorly defined spiral rows on each side of the proboscis. Cusps are roughly

trapezoidal in shape. Prostomium is longer than wide and bears four subterminal antennae and a single pair of eyes; four pairs long tentacular cirri present. Dorsal cirri flattened, oval-shaped; ventral cirri long, tapering, extend beyond the podial lobes. Each segment distinctly pigmented, providing a striped appearance to the body. Resembles P. subulifera Eliason from Scandinavian waters, but differs in having distinct proboscideal cusps and segmental pigment pattern.

Phyllodocidae, new genus, new species A

Fifteen specimens of this unique genus were collected. It differs from all known phyllodocids in having a proboscis armed with small multipronged posteriorly-directed cusps on the sides; and a dorsal row of overlapping flattened plates which possibly serve as supports. Prostomium is approximately equilateral and bears four anterolateral antennae and a very short medial papilla at the posterior border. Tentacular cirri long and thin; dorsal cirri flattened and oval in shape; ventral cirri are elongate and taper at tips.

POLYGORDIDAE

Polygordius sp. A

Small, eyes lacking.

Polygordius sp. B

Eyes present. Tentacles shorter than those of Polygordius sp. A. Found at Station 5-28.

PROTODRILIDAE

Protodrilus sp. A

With setae, not Protodriloides chaetifer. Rare.

PSAMMODRILIDAE

Psammodrilus balanoglossoides Swedmark, 1952

Body with three regions, including head, thorax, and abdomen; with three pairs long dorsal cirri in thorax.

SABELLIDAE

Chone duneri Malmgren, 1867 & C. infundibuliformis Kröyer, 1856

Our specimens may represent the same species; we have no large C. duneri and no small C. infundibuliformis.

Chone sp. A

Staining pattern not as for C. duneri and C. infundibuliformis; collar laterally incised. Abundant at Station 14.

Euchone cf. elegans Verrill, 1873

Uncini not exactly as in Banse (1972); variability of forms within tori of abdominal setigers not observed.

Oriopsis sp. A

The most obvious character of this species is the dark "hyphenated" staining pattern along the branchiole ridges. Collar fairly low with several lateral incisions. Eight thoracic setigers, 16 abdominal setigers. Abdominal neurosetae serpuliform with a small tooth at bottom.

Potamilla neglecta (Sars, 1851)

Without tentacular eyes; body ragged, as if poorly preserved.

Sabellidae sp. A

Small. 6-8 pairs of radioles, not united in web, covered with cilia and slightly enlarged at tips, pinnules lacking. Eight thoracic setigers, 3-4 abdominal setigers. Thoracic notosetae spatulate and capillary; thoracic neurosetae long

shafted (acicular) hooks. Abdominal notosetae short-handled uncini; abdominal neurosetae winged capillaries.

SPHAERODORIDAE

Sphaerodoridium sp. A

Common in the Mud Patch and also collected at Station 14A in the Gulf of Maine, 80-150 m. Related to Sphaerodoridium claparedii, but differs chiefly in having 8-10 rows of stalked macrotubercles on the dorsum rather than six rows. Several specimens were found which contained very large eggs, a feature apparently typical for the family. Includes specimens previously reported as Clavodorum sp. A and Sphaerodoridium claparedii.

Sphaerodoridae sp. A

This species was also found at stations on the southern flank of Georges Bank in 140-170 m. Only a few specimens are available, and in none of these are antennae visible, suggesting a relationship to Sphaerodoropsis distichum Eliason from the Skagerak in Denmark. There are six rows of sessile macrotubercles which lack a distinct terminal papilla. Two irregular rows of smaller tubercles are located between the lateralmost rows of macrotubercles. The ventral surface has a few, small to medium sized, irregularly scattered papillae. The parapodial lobes are inflated, conical, and sharply pointed distally. Pre- and postsetal lamellae are lacking. A small ventral cirrus is present, inserted about halfway up the acicular lobe; it is small and never extends beyond the tip of the parapodial lobe. A small, round, button-like papilla is located at the distal tip of the acicular lobe; another small, round papilla is positioned about halfway along the superior edge of the parapodium.

SPIONIDAE

Malacoceros indicus Fauvel, 1928

Northern range extension.

Polydora barbilla Blake, 1981

New record for eastern North America, records published in Maciolek (1984).

Polydora blakei Maciolek, 1984

Same species identified as P. caulleryi by Hartman (1965), not Mesnil, 1897. Major spines with crest of bristles and two teeth; caruncle broad, triangular shaped.

Polydora nr. caeca Oersted, 1843

With posterior spines, rare in our samples.

Polydora n. sp. A

Similar to P. flava, but with bundles of posterior notopodial needles occurring in more anterior setigers.

Polydora n. sp. B

In P. socialis group, major spines with apical swelling and terminal mucron.

Prionospio aff. cirrobranchiata Day, 1961

Same as specimens identified as P. cirrobranchiata by Day (1973) from Beaufort, N.C. This species is not identical to P. cirrobranchiata Day, 1961 from South Africa and is being described as a new species (Maciolek, in prep.).

Prionospio n. sp. A

With 8-10 pairs long, broad, apinnate branchiae; prostomium triangular, anteriorly flared. Not P. cirrifera Wirén. Two specimens recorded from Station 8.

Prionospio n. sp. B

Prostomium heart-shaped, with medial incision. Neuropodial lamellae of setiger 1 directed anteriorly, lamellae large on setigers 1 and 2; neuropodial lamellae continuing ventrally, forming flap on ventral surface. Hooks multidentate. Only one specimen collected during entire study; from Station 9 in May 1983 (M8).

Spiophanes sp. A

Prostomium bell-shaped; occipital tentacle absent; eyes absent. May be S. soederstroemi Hartman.

Spionidae new genus, new species A

Prostomium truncate anteriorly, confined posteriorly by a yoke which extends across dorsum between parapodia of setiger 1; branchiae from setiger 3; neuropodial hooded hooks bidentate, notopodial hooks lacking.

Spionidae new genus, new species B

Branchiae from setiger 1, numbering five pairs, all pairs apinnate. Hooded hooks multidentate, with at least two pairs of apical teeth above main fang.

Spionidae new genus, new species C

One complete specimen from Station 8 in July 1983 (M9). Prostomium with frontal horns, appears damaged. Branchiae from setiger 2, continuing for about 10 setigers. Tridentate neuropodial hooded hooks from setiger 20; notopodial hooks in last few setigers only. Sabre setae heavily granulated. Pygidium with at least four anal cirri.

SPINTHERIDAE

Spinther oniscoides (Johnston, 1845)

Only one species of Spinther (S. citrinus) has been previously reported from our coast. However, we have collected a single, very small, specimen of what appears to be a second species, which is distinguished by having only bifid notosetae rather than a mixture of bifid and entire notosetae as is found in S. citrinus.

SYLLIDAE

Braniella nr. palpata Hartman, 1967

Rare, found at Block 410 stations. Blades of compound setae are distinctly serrated, with hooked tips. Previously identified as Amblyosyllis sp. A.

Braniella pupa Hartman, 1965

Rare, found at Station 14A. Blades of compound setae are smooth, with hooked tips. Previously identified as Amblyosyllis sp. B.

Eusyllis sp. A

Rare, collected at Station 6 in November 1983 (M10). Bifid tips of compound falcigers with two equally large teeth.

Sphaerosyllis sp. B

Rare, from Station 14. Appears to lack antennae.

Streptosyllis sp. A

Extremely small specimens from site specific stations in May 1983 (M8). Similar to S. arenae in having membranous sheath over tips of blades of compound setae. Differs from S. arenae in having long rather than short falcigerous blades; winged setae are only in anterior setigers.

Syllides cf. articulosa Ehlers, 1897

Recorded in Year I; identification corrected during Year II to S. japonica Imajima, 1966.

Syllides sp. A

Common at Stations 16, 17 and 18. With 1-2 upper simple setae with flared tip, some with serrated edge; blades of compound setae short to long.

Syllides sp. B

Rare, found only at Station 14 in Year I. Upper simple setae long, thin, whiplike.

Syllides sp. C

Rare, found at Stations 5-8 and 17. Upper simple setae serrated with bifid tip.

Syllides sp. D

Rare, found at Station 8. Upper simple setae long, pointed, present in posterior setigers; median dorsal cirri not articulated.

Syllides sp. F

Common at site-specific stations. Confused with S. benedicti during Year I, but differs in having setal blades varying only slightly in length within one fascicle, compared to S. benedicti in which some of the blades are 4-5 times the length of the shortest. This species appears to be close to S. convoluta Webster and Benedict, 1884.

TEREBELLIDAE

Polycirrus sp. A

With 8-18 thoracic setigers; uncini begin on setigers 7-12; with 7-16 (10) pairs ventral shields. Includes specimens previously identified as Polycirrus sp. D.

Polycirrus sp. B

Nineteen thoracic setigers; uncini begin on setiger 16.

Polycirrus sp. F

With 13-18 thoracic setigers, uncini begin on setiger 9-12; 8-10 pairs of ventral shields visible when stained; distinct plumose notosetae.

Polycirrus sp. G

Stained shields look like elevated blocks. Does not stain like other Polycirrus. With 11 thoracic setigers; uncini begin on setiger 12; seven pairs of ventral shields visible when stained.

Polycirrus sp. H

Sixteen thoracic setigers; uncini begin on setiger 9; 13 pairs of ventral shields visible when stained.

Polycirrus sp. I

Seven thoracic setigers; two elevated ventral ridges anteriorly which merge into one unelevated, noticeable stripe posteriorly; notosetae barely extend beyond end of parapodia; only one bundle of neurosetae seen on entire specimen. Does not stain with methyl green.

Proclea sp. A

With 13-16 thoracic setigers; uncini begin on setiger 3, double rows of uncini begin on setiger 8. Dentate setae begin on setiger 9-10. Complete specimens with more than 24 abdominal setigers. Ten pairs of ventral shields visible when stained. Ovigerous specimens found.

Streblosoma sp. A

Eighteen thoracic setigers. Three setigers with branchiae. Notosetae start on first branchial segment. Uncini with main fang, 3-4 teeth in secondary row and 4-5 teeth in top row, papillae on base of uncini. Capillaries rough, irregularly jointed at tips, possibly infected or damaged.

TRICHOBRANCHIDAE

Terebellides stroemi Sars, 1835

Juveniles with transitional setal arrangement; geniculate setae of setiger 6 in adults also occur in setigers 4-5 in juveniles, thus sharing characters of other genera.

TROCHOCHAETIDAE

Trochochaeta nr. carica (Birula, 1897)

One specimen from Station 14 collected in Year I. Differs from T. carica in that there is no caruncle on the prostomium and the noto- and neuropodial lamellae are digitiform, not rounded.

POLYCHAETA INDETERMINATE

"Archiannelida" sp. A

Probably Protodrilidae. Anterior end expanded, with two palps, eyes lacking. Ciliated area posterior to mouth tapering to long ciliated tract extending posteriorly. Segmentation indistinct, only one segmental boundary detected. Setae lacking. Cuticle thick, oligochaete-like. Found at Stations 16 and 18.

Polychaeta sp. A

Very small polychaete with uniramous (?) parapodia. Setae include simple and unusual compound types. Appears to have two central antennae. Appears to have a muscular pharynx. Short dorsal cirri present. First found at Stations 5-22 and 5-28.

Polychaeta sp. B

Only one small specimen collected from Stations 5-8. Pair of palps inserted dorsolaterally on prostomium. Parapodia appear biramous; setae all capillaries. Large ventral cirrus (?) on some segments. Annulated segments.

Polychaeta sp. C.

One small specimen collected from Station 13A in July 1983 (M9). Possibly a juvenile terebelliform. Ciliated branchiae present anteriorly; biramous with only capillary setae (uncini lacking).

ANNELIDA:OLIGOCHAETA

Changes in the species identifications of the oligochaetes are based on collaboration with Dr. Christer Erséus of the University of Göteborg, who has examined both a voucher collection of all species identified and several additional specimens of some species. Four manuscripts have been submitted and accepted for publication by Davis, Erséus, or Erséus and Davis, based on the Georges Bank material.

TUBIFICIDAE

Adelodrilus bacrionis Davis, 1985

This species has two penial bundles each consisting of one large spoon-shaped penial seta, an intermediate size seta with tip bending ectally to form a small hook, and four smaller, ectally hooked setae. Designated as Adelodrilus n. sp. D in our previous reports, this species is described in Davis (1985).

Adelodrilus correptus Erséus & Davis, 1984

This species has spoon-shaped penial setae with 15 to 20 smaller penial setae which anteriorly are single pointed and slightly hooked, and posteriorly are smaller, somewhat club-shaped with an apical tooth. Previously reported as Adelodrilus n. sp. C, the description for this species is included in Erséus and Davis (1984).

Adelodrilus inopinatus Erséus & Davis, 1984

This species is very similar to A. multispinosus except that the giant penial setae are not hooked distally and are more spoon-shaped, the medium penial setae have tiny spines on the distal end, and the posterior somatic setae are longer and more sharply pointed. Designated as Adelodrilus n. sp. A in our previous reports, this species is named and described in Erséus and Davis (1984).

Adelodrilus pilatus Erséus & Davis, 1984

Reported as Tubificidae sp. A in Year I, these specimens were later determined to be a new species of the genus Adelodrilus and were designated as Adelodrilus n. sp B. This species has distinctly spoon-shaped giant penial setae accompanied by several smaller, straight, simple pointed penial setae. The ventral somatic setae of segments IX and X are modified and approximately twice as long as other somatic setae and have simple points, while other somatic setae are bifid. Posterior somatic setae with upper tooth very small, but never simple, pointed. This species is also named and described in the manuscript cited above.

Bathydrilus longus Erséus, 1979

This species was previously reported as Tubificidae sp. B.

Heterodrilus occidentalis Erséus, 1981

Called Clitellio arenicolus in the Year I report, this species is generally identified by its characteristic setal pattern and the very small lower tooth on the posterior somatic setae.

Limnodriloides barnardi Cook, 1969

Originally confused with L. medioporus, this species has very characteristic spermathecal setae and large, long spermathecal ducts.

Olavius tenuissimus (Erséus, 1979)

Formerly called Tubificidae sp. D, this species was later identified as Phallodrilus tenussimus. A generic revision by Erséus (1979) resulted in its present designation.

Phallodrilus biprostatus (Baker & Erséus, 1979)

Reported as P. coeloprostratus in Year I, this species has somatic and penial setae nearly identical to those of P. coeloprostratus. It was later identified as Peosidrilus biprostatus due to the presence of a large hollow penis. Erséus (1984) revised the genus Phallodrilus to include Peosidrilus.

Phallodrilus boeschi Erséus, 1984

Reported as P. coeloprostratus in Year I, this species was later determined to be a new species of the genus Phallodrilus and was designated Phallodrilus n. sp. A. It is very small with penial setae similar in number and shape to those of P. coeloprostratus but smaller. Posterior somatic setae are strongly sigmoid with a large angle between the teeth. This species is named and described in Erséus (1984).

Phallodrilus cristeri Davis, 1985

Designated as Phallodrilus n. sp. F in our previous reports, this species has segment XI penial bundles that consist of a pair of setae each. These setae are bifid with very thin teeth and have a sigmoid-shaped shaft. This species is described by Davis (1985).

Phallodrilus davisi Erséus, 1984

Previously reported as Phallodrilus n. sp. C, these specimens lack penial setae, yet have a large, L-shaped penis. This species is named and described in Erséus (1984).

Phallodrilus dorsospermatheca Davis, 1985

Previously reported as Phallodrilus n. sp. G, this species has each penial bundle consisting of four setae with strongly hooked distal ends. The spermatheca is dorsally located. Davis (1985) contains a description of the species.

Phallodrilus flabellifer Erséus, 1984

The penial setae of this species is similar to that of P. coeloprostratus, but tends to be more fan-shaped. The presence of crystalline-like particulate matter on the cuticle is also a distinguishing characteristic. Designated as Phallodrilus n. sp. B in our previous reports, this species is named and described in Erséus (1984).

Phallodrilus n. sp. E

Included with P. tenuissimus in the Year II report, this gutless oligochaete has posterior segments consisting of blood vessels and nerve cord covered by a cell mass. The penial setae number 3-6 per bundle with hooked ends. The description for this species can be found in Davis (in press).

Tubificoides n. sp. A

Called Limnodriloides medioporus in the Year I report, this species has all bifid somatic setae. The anterior setae are in bundles of up to seven, while posteriorly the setae are in bundles of two or three. Narrow, very slender cuticular penis sheaths and small stalked prostrate glands are present. A long, straight atrium with a vas deferens about twice the length of the atrium is also characteristic of this species.

Tubificoides n. sp. B

Called Tubificoides apectinatus in the Year II report, this species has been designated as Tubificoides n. sp. B. because of a discrepancy between Brinkhurst's original (1965) description and the Brinkhurst and Baker (1979) description of the penial sheath of A. apectinatus.

Uniporodrilus vestigium Davis, 1985

Called Phallodrilus obscurus in the Year I report, these specimens were later identified as a new species of Uniporodrilus and were designated as Uniporodrilus n. sp. A. This species has six large penial setae with strongly hooked distal ends and bifid somatic setae, both very much like those of P. obscurus. It has a large, unpaired atrium into which both vas deferens run. One penial bundle is located at the male pore and the other penial bundle is located on the other side of the body. A complete description of this species is included in Davis (1985).

Oligochaeta n. fam. sp. A

This was formerly called Tubificidae sp. H, but actually represents a new family of Oligochaeta (Erséus, personal communication). It has penial setae that are very thin and long like hair setae. There may be up to three pairs of penial setae, each pair on a different segment. Normally there is only one pair of penial setae with modified ventral somatic setae on the segments immediately anterior and posterior to the penial setae. Somatic setae are very small and include sigmoid and simple pointed setae in bundles of three anteriorly and two posteriorly.

ENCHYTRAEIDAE

Grania n. sp. A

Identified as Grania postclitellochaeta in the Year I report, this species has simple somatic setae which has club-shaped roots, and which begin approximately one-third of the way down the body.

Grania n. sp. B

Identified as Lumbricillus codensis in Year I, this species has simple somatic setae which has hook-shaped roots.

Grania n. sp. C

This species was formerly designated as Enchytraeidae sp. A and has no somatic setae of any kind.

Grania n. sp. D

Formerly included with Grania n. sp. A, this species has somatic setae which has club-shaped roots and which begin at the anterior of the body. The vas deferens are very long, extending over three segments.

The Grania problem is currently being worked out by Dr. Christer Erséus and Ms. Kathryn Coates (Erséus, personal communication). Until these problems are resolved, species designations are tenuous.

MOLLUSCA: GASTROPODA

PROSOBRANCHIA

Alvania cf. acuticostata (Dall, 1889)

A single subadult specimen whose nucleus shows it to be the same as Gastropoda sp. B. If identification is correct, this would be a range extension from Cape Hatteras, N.C.

Alvania exarata Stimpson, 1851

Preferred name for A. arenaria Mighels & Adams 1842, recorded in the Georges Bank Benchmark study.

Colus stimpsoni (Mörch, 1867)

This species was found in the trawl samples but was not recorded from the grab samples.

Epitonium dallianum (Verrill & Smith, 1880)

This uncommon gastropod has been found in several samples and is a range extension from its type locality 175 miles off Ashbury Park, N.J. and 85 miles south of Martha's Vineyard.

Mitrella dissimilis Stimpson, 1851

This species is listed as a synonym for M. lunata in Abbott (1974), but is different and should be maintained as a separate species.

Turritellopsis cf. acicula (Stimpson, 1851)

Represented by only a few badly preserved specimens. Enough of the shell sculpture is preserved in the remaining periostracum to suggest this species.

Naticidae sp. A

Juvenile specimens not readily assignable to any species.

Gastropoda sp. C

A single, poorly preserved specimen that resembles a very small Naticid except that it is sinistral instead of dextral.

OPISTHOBRANCHIA

Doridella obscura Verrill, 1870

Several specimens were found at Station 15, constituting a slight range extension from the Vineyard Sound. Also, this species is normally found in bays and estuaries from the intertidal to 7.7 m, therefore this record is also a depth extension.

Eubranchus sp. A

This designation is used for certain juvenile nudibranchs which lack sufficient adult characters for certain species identification. This may be E. pallidus (Alder & Hancock, 1842) whose range extends to Georges Bank.

Onchidoris cf. tenella Gould, 1870

A single adult specimen with conical dorsal papillae. The specimen was distorted during preservation, making identification difficult.

Philine tincta Verrill, 1882

Single adult specimen. Previous reports give its range as "off Martha's Vineyard", the type locality.

Aeolididae sp. A

A single adult specimen, having oblique leaflets on rhinophores. General appearance suggests Cerberilla tanna Marcus & Marcus 1959, known from Texas.

Nudibranchia sp. B

A single juvenile nudibranch specimen, not readily assignable to any family.

Nudibranchia sp. C

A single juvenile specimen. It has an oval velum, rhinophores not retracted into sheaths, and a single, longitudinal row of cerata on either side of the body.

MOLLUSCA: BIVALVIA

Crenella fragilis Verrill, 1885

Represented by two specimens from Station 12. This is a range extension from off the coast of Wachapreague, Virginia.

Diplodonta sp. A

Although all representative specimens were broken, this genus is suggested by the shape of the shell and the presence of a bifid tooth.

Limea sp. A

This taxon is represented by several specimens found only at Station 16. The sculpture consists of prominent crenulated concentric ridges overlying squarish radial ribs. The concentric ridges near the margins form scales as they go over the ribs. Strongly resembles L. sarsi of the eastern Atlantic Ocean.

Mysella planulata (Stimpson, 1857)

This identification includes most of the minute bivalves formerly referred to as Leptonacea sp. A.

Palliolum sp. B

A small scallop with rounded byssal notch and differing sculpture on opposite valves. Very small specimens resemble juvenile Placopecten magellanicus, as

figured in Merrill (1961), but cannot be identified as such until juvenile stages of Palliolum have been studied.

Periploma sp. A

This species resembles P. leanum, but is less round, more angular, and has a straighter hinge line.

Tellina agilis Stimpson, 1857

This bivalve is the dominant mollusc at several stations. The Georges Bank specimens are not as large as those found in shallower water. All our specimens exhibit shell sculpture of slightly raised concentric lines which appear to be a juvenile character as they can be found on the older parts of the shells of specimens from Boston Harbor. These lines are not mentioned in this species description in Boss's (1968) monograph on Western Atlantic Tellinidae.

Thyasira spp. A-E

A confused genus needing monographic revision. There are many species found in our area and some of these have several forms. Thyasira sp. A resembles T. trisinuata; sp. B resembles T. flexuosa; sp. C could be either T. pygmaea, although our stations are shallow for that species, or a juvenile form of a different Thyasira species. Thyasira sp. D and sp. E do not closely resemble any described species.

Leptonacea sp. B

Single broken specimen; a small obese bivalve with wrinkled reddish-brown periostracum.

MOLLUSCA: SCAPHOPODA

Siphonodentalium cf. tythum Watson, 1879

A small scaphopod with a small apex and large aperture. The fragile apex features required for proper identification were broken on our specimens. If identification is correct, it consitutes a range extension from the Caribbean.

MOLLUSCA: POLYPLACOPHORA

Hanleya sp. A

Small, poorly preserved chitons whose girdle scales suggest this genus.

Leptochiton sp. A

A small chiton whose characters suggest L. cancellatus. Dr. Robert Bullock of the University of Rhode Island (personal communication) prefers the generic name Leptochiton to Lepidopleuras as given in Abbott (1974).

Leptochiton sp. B

A small poorly preserved specimen which lacks the valve sculpture of Leptochiton sp. A.

MOLLUSCA: APLACOPHORA

Neomeniomorpha spp. A - G

The neomeniomorphs were reexamined in 1984 by Ms. Amalie Scheltema of Woods Hole Oceanographic Institution. She determined that only three of the seven species designated were actually separate taxa. Others, usually represented by a single specimen, were determined either to belong to predesignated categories, or were incertae sedis.

Wireniidae spp.

Ms. Scheltema reexamined specimens previously identified as Nierstrassia fragile and decided that such a specific designation could not be made. She prefers to use the more general family name, implying that more than one species may be present in this taxon.

ARTHROPODA: CRUSTACEA

PYGNOGONIDA

Anoplodactylus sp. A

Rare; a larval stage which is almost certainly A. lentus Wilson, 1878.

CUMACEA

Campylaspis sp. A

A juvenile; probably Campylaspis affinis Sars, 1870.

Diastylis abbreviata Sars, 1871

This species was formerly designated as Diastylis sp. B.

Diastylis lucifera (Kröyer, 1841)

Georges Bank specimens represent a southern range extension. The previously reported range was from Nova Scotia to the Gulf of Maine (Watling, 1979a).

Diastylis sp. A

A juvenile with a telson having two apical spines and two pairs of marginal spines. Caparace smooth.

Diastylis sp. C

Rare; represented by one large male which is similar to D. rathkei (Kröyer, 1841) except for differences in the number of segments of the exopods and endopods.

Lamprops sp. A

Rare. Juvenile specimens, probably L. quadriplicata S.I. Smith, 1879.

Leptostylis sp. A

A juvenile; probably Leptostylis longimana (Sars, 1865).

TANAIDACEA

Pseudoleptochelia filum (Stimpson, 1853)

With distinctively pigmented eyes. Has been sent to Dr. Jurgen Sieg at Universität Osnabruck, West Germany for confirmation.

Tanaissus lilljeborgi (Stebbing, 1871)

The most common tanaid in our Georges Bank samples; also common in BLM samples from the Mid-Atlantic Bight. Has been sent to Dr. Jurgen Sieg for confirmation.

Typholotanais nr. cornutus G. O. Sars, 1885

Identified by Isabelle Williams (W.H.O.I.) following Lang (1970). It has been collected from Norway and the Davis Strait. Has been sent to Dr. Jurgen Sieg for confirmation.

Tanaidacea sp. A

Possibly a species belonging to the genus Typhlotanais. Uropods biramous with each ramus having one segment. Antenna 1 with four segments. Length 1.3 mm. Very stout body.

Tanaidacea sp. B

Possibly a species belonging to the genus Tanais. Uropod 3 has an outer ramus with two segments and an inner ramus with three segments. Length 1.5 mm. First segment of antenna 1 twice as long as second segment.

Tanaidacea sp. C

Possibly a male specimen of Leptagnathia longiremis. Uropods biramous, outer ramus with two segments. Antenna 1 with six segments. Length 1.0 mm. Stout body similar to Tanaidacea sp. B but with only two segments in inner ramus. Very rigid projections on palm of gnathopod 1.

ISOPODA

Edotea triloba (Say, 1818)

It is very difficult to distinguish between Edotea triloba and E. montosa. Dr. Les Watling of the University of Maine (personal communication) has identified our specimens as E. triloba, since he believes E. montosa is not a valid species.

Edotea sp. B

Juvenile, probably Edotea triloba.

Eurycope mutica G.O. Sars, 1863

Rare. Georges Bank specimens represent a southern range extension. Previous range is reported to be from Norway to the Bay of Fundy (9 to 27 m) (Shultz, 1969).

Janira sp. A

Rare. Juvenile, probably J. alta.

Munna fabricii Kröyer, 1846-1849

Georges Bank specimens represent a southern range extension. Shultz (1969) reported the range from Greenland to Maine.

Munna sp. B

Rare. Similar to M. kroyeri Goodsir (1842), with slightly stalked eyes and uropods on the pleotelson. However, no lateral spines are on the pleotelson. Total length is approximately 1 mm.

Paramunna sp. A

Rare. Similar to P. bilobata G.O. Sars 1865, except the lateral projections of the anterior peraeonal segments are long and acute, not truncated as in P. bilobata.

Pleurogonium inerme Sars

Georges Bank specimens represent a southern range extension. Shultz (1969) reported this species from relatively shallow water (4 to 27m) in the Bay of Fundy.

Ptilanthura tricarina Menzies and Frankenberg, 1966

Georges Bank specimens represent a northern range extension according to the range given by Menzies and Frankenberg (1966).

Ptilanthura sp. A

Rare. Juvenile, probably P. tricarina Menzies & Frankenberg, 1966.

Cryptoniscidae sp. A

Rare. Represented by one male specimen only. Most similar to Liriopsis.

Desmosomatidae sp. A

Rare. Probably Desmosoma tenuimanum (G.O. Sars, 1899).

Munnidae sp. A

Rare. Small black eyes visible dorsally. The last peraeonal segment is narrower than the telson. Antennae 1 and 2 are very short.

AMPHIPODA

Anonyx sp. A

Juveniles, probably Anonyx sarsi Steel and Brunel, 1968.

Bathyporeia quoddyensis Shoemaker, 1949

Since these specimens lack spines on the inner margins of the telson, Dr. Watling (personal communication) believes they are Bathyporeia parkeri Bousfield, 1973. However, other morphological characters as well as the ecology coincide with B. quoddyensis. Bousfield (1973) reported that B. parkeri occurs on exposed sandy beaches from just below the breaker zone to 10 m, whereas B. quoddyensis occurs subtidally to more than 40 m. The posterior margin of peraeopod 7 is oblique (not sharply incised, as in B. parkeri) and lacks spines (not 4-5 spines as in B. parkeri). Peraeopod 7 looks like the drawing in Shoemaker (1949) and fits the key characters of Bousfield (1973). Epimeral plates 1 and 2 do not have the posterior margin proximally produced into a sharp tooth as described and illustrated in Bousfield (1973) for B. parkeri. The eye, when pigmented, has four pigmented facets, compared to six in B. parkeri.

Byblis sp. A

Represented by one small specimen similar to Byblis gaimardi (Kröyer, 1846).

Dyopedos monacanthus (Metzger, 1875)

A synonym of Dulichia monacantha according to Laubitz (1977).

Gammaropsis nitida (Stimpson, 1853)

A synonym of Podoceropsis nitida as noted by Barnard (1973).

Erichthonius faciatus (Stimpson, 1853)

Reported as E. rubricornis in Years I and II, this species is included in the revision of the north-east Atlantic species of Erichthonius by Myers and McGrath (1984).

Gitana sp. A

Telson subequal to the length of peduncle of uropod 3.

Hippomedon sp. A

Possibly H. propinquus. Telson elongate, deeply cleft. Telson lobes not distinctly v-cleft. Gnathopod 1, palm ill-defined. Epimeral plate 3 without basal notch. Endopod of uropod 2 with two spines on distal inner margin. Males approximately 7.0 mm.

Ischyrocerus sp. A

Juveniles, probably the same as Ischyrocerus sp. B.

Ischyrocerus sp. B

Fits within very broad concept of I. anguipes Kröyer 1838, in which epimeral side plate 3 rounded; telson acute with two clumps of spines; spines present on peduncle of uropod 3. However, outer ramus of uropod 3 bears 7-8 blunt denticles, not 4-5 as noted in Bousfield (1973). Our specimens quite similar to Ischyrocerus sp. T-1 (Just, 1980).

Mayerella nr. limicola

Males: P3 x P4, two-segmented. P5, three-segmented. With mandibular palp.

Monoculodes edwardsi Holmes, 1905

Most of our Monoculodes are M. edwardsi as described by Holmes (1905). First segment of antenna 1 as long as the next two segments; gnathopod 2 with a long, slender carpal lobe, extending slightly more than 1/2 length of propodus and meeting dactyl.

Monoculodes sp. A

Similar to drawing of M. edwardsi in Bousfield (1973). Carpal lobe on gnathopod 2 is about 1/3 the length of propodus, and not touching dactyl.

Monoculodes sp. E

Rare. It is the same as Monoculodes sp. A listed in Watling, 1979b. Gnathopod 1 has a broad, short carpal lobe. Gnathopod 2 has an acute, short carpal lobe, not extending to the palmer angle. Similar to M. caecus.

Orchomene sp. A

Rare. Juveniles, probably O. minuta (Kröyer, 1842).

Paramphilochoides odontonyx (Boeck, 1871)

This species was designated as Paramphilochoides sp. A in our previous reports.

Photis pollex (Walker, 1895)

A synonym of P. macrocoxa as noted by Myers and McGrath (1981).

Rhachotropis inflata G.O. Sars, 1882

Georges Bank specimens represent a southern range extension. The previously reported range was north of latitude 42° on the continental shelf and slope (Watling, 1979b).

Rhepoxynius hudsoni Barnard & Barnard, 1982

A synonym of R. epistomus as described by Bousfield (1973) according to Barnard and Barnard (1982).

Siphonoecetes colleti (Myers & McGrath, 1979)

A synonym of S. smithianus Rathbun, 1905 as noted in Myers and McGrath (1979).

Unciola spp. juveniles

First and second instar individuals, not having adult characteristics. Most have been found with adult Unciola inermis, and have therefore been included with that species for data analysis.

Lysianassidae sp. A

Represented by a few small specimens which are most similar to Anonyx sarsi described by Steel and Brunel (1968). Sent to Dr. Watling for verification.

Lysianassidae sp. C

Rare. Most similar to Orchomenella (Orchomene) groenlandica.

Melitidae sp. B

Rare. Juveniles, uropod 3 has two long rami. No tooth on epimeral plate 3. Possibly Maera loveri (Bruzelius, 1859).

Photidae sp. A

Rare. Represented by a few juvenile, damaged specimens.

Pleustidae sp. A

Rare. Approximately 4 mm total length. No accessory flagellum on antenna 1. Telson entire with length equal to width. Gnathopod 1 small, gnathopod 2 very large.

Stenothoidae

The species of this family have been identified primarily on the basis of body parts. Mouth parts have not been used, except occasionally when there were several large specimens of the same species in a sample. More detailed taxonomic work is necessary on this family.

DECAPODA

Axiidae sp. A

Similar to Axis serratus Stimpson, 1852.

Axiidae sp. B

Similar to Calocaris tempelmani Squires, 1965.

Galatheidae sp. A

Rare. Juveniles, probably Munida iris.

PRIAPULIDA

Tubiluchus sp. A

This taxon was previously called Priapulida sp. A. These specimens include a larval form and represent the first of this family and genus found north of Bermuda.

ECTOPROCTA

Eucratea loricata (L., 1758)

This species is the most common bryozoan recorded at our Georges Bank stations.

ECHINODERMATA: ECHINOIDEA

Echinarachnius parma (Lamarck, 1816)

This species now includes the two taxa listed in our previous reports as Echinoidea sp. A (juvenile) and Echinoidea sp. C (juvenile). Echinoidea sp. A (juvenile) is characterized by its lack of development of the aboral periproct, oral ambulacral furrows, aboral ambulacral furrows and entire apical system. Echinoidea sp. C (juvenile) has been identified as decalcified specimens of Echinoidea sp. A.

Echinocardium flavescens (O. Müller)

Confirms occurrence on east coast of North America, which was questioned by Mortensen (1927).

Echinoidea sp. B (juvenile)

This species is a regular echinoid which lacks adult features. It is characterized by an undeveloped apical system, an oral surface with serrated primary spines peripherally and serrated four-pronged spines centrally, a peristome surrounded by tube feet, and serrated primary spines peripherally on the oral surface.

Spatangoidea spp. (juveniles)

Small specimens; mouth anterior; no dental apparatus; oral and aboral ambulacra undeveloped; peristomal podia penicillate; rostrate pedicellaria present.

ECHINODERMATA: OPHIUROIDEA

Amphilimna olivacea (Lyman, 1869)

Listed in previous reports as Amphitarsus spinifer Schoener, 1967, the holotype of this species was reidentified by Thomas and Schoener (1972) as Amphilimna olivacea. This taxon includes prevously listed Ophiuroidea sp. E, a juvenile form characterized by early formation of wing-like lateral plates, undeveloped oral papillae and radial shields, and an oral shield and ventral arm plates characteristic of the holotype.

Amphioplus macilentus (Verrill, 1882)

Previously listed as A. abditus (Verrill, 1871), these two species were synonomized by Koehler (1914), Thomas (1962) and others. Hendler (1973), however, verified justification for separate identification. This species includes Ophiuroidea sp. D, a subadult having paired infradental papillae, a continuous series of 3-4 pairs of oral papillae, undeveloped tentacle scales, and three arm spines and Ophiuroidea sp. G (juvenile) characterized by paired infradental papillae and undeveloped oral papillae.

Amphipholis squamata (delle Chiaje, 1828)

This species includes previously reported Ophiuroidea sp. A (juvenile) characterized by 4-8 arm segments, partially developed mouth parts, undeveloped tentacle scales, and reduced radial shields.

Ophiura robusta (Ayres, 1851)

This species includes previously reported Ophiuroidea sp. H (juvenile), characterized by visible primary plate, undeveloped radial shields and mouth parts, 2-3 arm spines, and extremely elongated lateral arm plates.

Ophiuroidea sp. B (juvenile)

Mouth parts minimally developed, two large, spiniform tentacle scales on proximal pore pair; 1-3 arm segments; one arm spine.

Ophiuroidea sp. C (juvenile)

Primary disc plates large; radial shields reduced; large triangular dorsal arm plates overlapping proximally, separate distally; ventral arm plates distally rounded triangles; one? tentacle scale; three arm spines; mouth parts undeveloped.

Ophiuroidea sp. F

Classification deleted; determined to be juvenile forms of various species in which all arm plates, dorsal plates and radial shields were decalcified.

ECHINODERMATA: CRINOIDEA

Hathrometra sp. A

One specimen only; 21 stalk segments; all arms broken at segment 1-2; all pinnules detached from arms; cirri 9-11 segments; sacculi present; brachials without spinous distal ends; large anal cone visible.

ECHINODERMATA: ASTEROIDEA

Asterias vulgaris Verrill, 1866

This species and the morphologically indistinguishable A. nubens L. have been the subject of disagreement in the literature since the 1850's. Although ecological and genetic isolation has led to continued use of the name vulgaris for American Atlantic populations, current systematists are favoring synonomy.

Astropecten americanus Verrill, 1880

This species includes previously reported Paxillosida sp. A (juvenile), a subadult having developed marginal plates and a small oral interradial area and Asteroidea sp. D (juvenile), characterized by the initial formation of marginal plates but lacking adult features.

Leptasterias tenera (Stimpson, 1862)

Specimens identified as L. tenera may include some individuals of L. austera (Verrill, 1895), the characteristic in question being the presence or absence of wreaths of pedicellariae surrounding the aboral spines. There is a lack of agreement in the literature as to whether L. tenera has or lacks these pedicellariae. Juveniles of L. tenera were previously tabulated as Forcipulata sp. B (juvenile). Also, some juveniles were found attached to adults, or with remnants of the attachment strand still present.

Sclerasterias tanneri (Verrill, 1880)

This species was designated as Forcipulata sp. C in our previous reports.

Stephanasterias albula (Stimpson, 1853)

This species was previously designated as Forcipulata sp. A.

Asteroidea sp. B (juvenile)

One specimen only; flat disc divided into 12 sections, each bearing 2-4 large tube feet; peripheral three-pronged spines; oral area undeveloped.

Asteroidea sp. C (juvenile)

One specimen only; extremely small; bearing tube-like attachment strand; dorsal plates bearing small, blunt spines.

ECHINODERMATA: HOLOTHUROIDEA

Labidoplax buskii (McIntosh, 1866)

Previously identified as Leptosynapta tenuis (Ayres, 1851) this species has 10-11 tentacles and ossicles which include anchors and anchor plates. The anchor plates are narrowed into distinct handles.

Holothuroidea sp. A

Classification deleted; determined to be damaged specimens.

HEMICHORDATA: ENTEROPNEUSTA

Enteropneusta spp. A,B,D,E,F,G.

All small, separated into different species by shape of proboscis.

SYSTEMATIC LITERATURE CITED

Abbott, R.T. 1974. American Seashells. 2nd Edition. Van Nostrand Reinhold Co., NY. 663 pp.

Arwidsson, I. 1907. Studien über die skandinavischen und arktischen Maldaniden nebst Zusammenstellung der übrigen bisher behannten Arten dieser Familie. Zool. Jahrb. Suppl., 9:1-308.

Banse, K. 1972. Redescription of some species of Chone Kröyer and Euchone Malmgren, and three new species (Sabellidae, Polychaeta). Fishery Bull. 70(2):459-495.

Barnard, J.L. 1973. Revision of Corophiidae and related families (Amphipoda). Smithsonian Contr. Zool. 151:1-27.

Barnard, J.L. and C.M. Barnard. 1982. The genus Rhepoxynius (Crustacea: Amphipoda: Phoxocephalidae) in American seas. Smithonian Contr. Zool. 357:1-49.

Blake, J.A. and D. Dean. 1973. Polychaetous annelids collected by the R/V Hero from Baffin Island, Davis Strait, and West Greenland in 1968. Bull. Sthn. Cal. Acad. Sci. 72(1):31-39.

Boss, K.J. 1968. The Subfamily Tellininae in the Western Atlantic. The genus Tellina (Part II) and Tellidora. Johnsonia 4(46):273-344.

Bousfield, E.L. 1973. Shallow-water gammaridean Amphipoda of New England. Cornell University Press, Ithaca, NY. 312 pp.

Brinkhurst, R.O. 1965. Studies on the North American aquatic Oligochaeta II. Tubificidae. Proc. Acad. Nat. Sci. Phila. 117 :117-172.

Brinkhurst, R.O. and H.R. Baker. 1979. A review of the marine Tubificidae (Oligochaeta) of North America. Can. J. Zool. 57 (8):1553-1569.

Davis, D. In Press. Olavius cornuatus sp. n. (Oligochaeta, Tubificidae) from Georges Bank (NW Atlantic) - Zool. Scripta.

Davis, D. 1985. The Oligochaeta of Georges Bank (NW Atlantic), with descriptions of four new species. Proc. Biol. Soc. Wash. 98(1):158-176.

Day, J.H. 1973. New polychaeta from Beaufort, with a key to all species recorded from North Carolina. NOAA Tech. Rept. NMFS Circ.-375. 140 pp.

Erséus, C. 1979. Taxonomic revision of the marine genus Phallodrilus Pierantoni (Oligochaeta, Tubificidae), with descriptions of thirteen new species. Zool. Scripta. 8: 187-208.

Erséus, C. 1984. Taxonomy of some species of Phallodrilus (Oligochaeta, Tubificidae) from the northwest Atlantic, with descriptions of four new species. Proc. Biol. Soc. Wash. 97(4):812-825.

Erséus, C. and D. Davis. 1984. Three new species of Adelodrilus (Oligochaeta, Tubificidae) from Georges Bank (NW Atlantic). Proc. Biol. Soc. Wash. 97(4):834-843.

Fauchald, K. 1982. Revision of Onuphis, Nothria, and Paradiopatra (Polychaeta: Onuphidae) based upon type material. Smithson. Contr. Zool. 356:1-109.

Gardiner, S. 1976. Errant polychaete annelids from North Carolina. J. Elisha Mitchell Sci. Soc. 91(3):77-220.

Grassle, J.F. and J.P. Grassle. 1977. Temporal adaptations in sibling species of Capitella. In: B.C. Coull (Ed.) Ecology of Marine Benthos. Belle W. Baruch Library in Marine Science No. 6. Univ. South Carolina Press. pp. 177-190.

Hartman, O. 1965. Deep-water benthic polychaetous annelids off New England to Bermuda and other North Atlantic areas. Allan Hancock Fdn. Publ. Occ. Pap. 28. 378 pp.

Hartman, D. 1969. Atlas of sedentariate polychaetous annelids from California. Allan Hancock Foundation, University of Southern California, Los Angeles. 812 pp.

Hendler, G. 1973. Northwest Atlantic amphiurid brittlestars, Amphioplus abditus (Verrill), Amphioplus macilentus (Verrill), and Amphioplus serpultus n. sp. (Ophuroidea:Echinodermata): Contributions on their systematic, zoogeography, annual periodicity, and larval adaptations. Ph.D. thesis, University of Connecticut. 255 pp.

Holmes, S.J. 1905. The Amphipoda of southern New England. Bull. U.S. Bur. Fish. 24:457-529.

Imajima, M. and Y. Shiraki. 1982. Maldanidae (Annelida: Polychaeta) from Japan (Part 2). Bull. Nat. Sci. Mus. 8(2):47-88.

Just, J. 1980. Amphipoda (Crustacea) of the Thule area, northwest Greenland: Faunistics and taxonomy. Greenland Bioscience 2:1-64.

Koehler, R. 1914. A contribution to the study of ophiurans of the United States National Museum. Bull. U.S. Nat. Mus. 84:1-173.

Lang, K. 1970. Taxonomische und phylogenetische untersuchungen über die Tanaidaceen, 5. Die Gattung Thyplotanais G.O. Sars, 1882 nebst Beschreibung Einer Neuen Art dieser Gattung, Dazu Eine Berichtigung der Dornenzahl des Enditen der Maxillulae Bei. I. peculiaris Lang, 1968. Ark. Zool., 2(23):267-291.

Laubitz, D.R. 1977. A revision of the genera Dulichia Kröyer and Paradulichia Boeck (Amphipoda, Podoceridae). Can. Jour. Zool. 55:942-982.

Maciolek, N.J. 1984. A new species of Polydora (Polychaeta: Spionidae) from deep water in the north-west Atlantic Ocean, and new records of other polydorid species. Sarsia 69 (2):123-133.

Menzies, R.J. and D. Frankenberg. 1966. Handbook on the Common Marine Isopod Crustacea of Georgia. U. of Georgia Press, Athens, GA. 93 pp.

Merrill, A.S. 1961. Shell morphology in the larval and postlarval stages of the sea scallop, Placopecten magellanicus. Bull. Mus. Comp. Zool. 125(1):1-19.

Mortensen, T. 1927. Handbook of the Echinoderms of the British Isles. London. Oxford University Press. 471 pp.

Myers, A.A. and D. McGrath. 1979. The British and Irish species of Siphonoecetes Kröyer (Amphipoda-Gammaridea). J. Nat. Hist. 13(2):211-220.

Myers, A.A. and D. McGrath. 1981. Taxonomic studies on British and Irish amphipoda. The genus Photis with the re-establishment of P. pollex (= P. macrocoxa). J. mar. biol. Ass. U.K. 61:759-768.

Myers, A.A. and D. McGrath. 1984. A revision of the north-east Atlantic species of Erichthonius (Crustacea:Amphipoda). J. mar. biol. Ass. U.K. 64:379-400.

Pettibone, M.H. 1963. Marine polychaete worms of the New England region. 1. Families Aphroditidae through Trochochaetidae. Bull. U.S. Nat. Mus. 227:356 pp.

Schultz, G.A. 1969. The Marine Isopod Crustaceans. Wm. C. Brown Co. Publ., Dubuque, Iowa. 359 pp.

Shoemaker, C.R. 1949. Three new species and one new variety of amphipods from the Bay of Fundy. J. Wash. Acad. Sci. 39:389-398.

Steele, D.H. and P. Brunel. 1968. Amphipoda of the Atlantic and Arctic coasts of North America: Anonyx (Lysianassidae). J. Fish. Res. Board Can. 25:943-1060.

Støp-Bowitz, C. 1958. (New polychaetes from Norway). Sciencaj Studoj Kopenhago pp. 213-216 (In Norwegian, French resume).

Thomas, L.P. 1962. The shallow water amphiurid brittle stars (Echinodermata, Ophiuroidea) of Florida. Bull. Mar. Sci. Gulf Carrib. 12(4):623-694.

Thomas, L.P. and A. Schoener. 1972. Growth changes in Amphilimna olivacea (Lyman) and the systematic status of Amphitarsus spinifer Schoener. Brevoria. 387:1-9.

Warren, L.M. 1979. Mediomastus fragilis Rasmussen (Polychaeta: Capitellidae), a species newly recorded from British waters. J. mar. biol. Ass. U.K. 59:757-760.

Watling, L. 1979a. Marine flora and fauna of the northeastern United States. Crustacea:Cumacea. NOAA Tech. Rept. NMFS Circ. 423. 23 pp.

Watling, L. 1979b. Zoogeographic affinities of northeastern North American Gammaridean Amphipoda. Bull. Biol. Soc. Wash. 3:256-282.

APPENDIX E

TABLE E-1. DOMINANT SPECIES AT REGIONAL STATION 1 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Echinarachnius parma	Tanaissus lilljeborgi	Spiophanes bombyx
Polygordius sp. A	Protohaustorius wigleyi	Bathyporeia quoddyensis
Pseudunciola obliquua	Pseudunciola obliquua	Tanaissus lilljeborgi
Tellina agilis	Tellina agilis	Protohaustorius wigleyi
Tanaissus lilljeborgi	Echinarachnius parma	Pseudunciola obliquua
Bathyporeia quoddyensis	Bathyporeia quoddyensis	Echinarachnius parma
Rhepoxynius hudsoni	Capitella jonesi	Phyllodoce mucosa
Protohaustorius wigleyi	Polygordius sp. A	Rhepoxynius hudsoni
Schistomeringos caeca	Rhepoxynius hudsoni	Polygordius sp. A
Exogone hebes	Spiophanes bombyx	Sthenelais picta
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Polygordius sp. A	Polygordius sp. A	Polygordius sp. A
Pseudunciola obliquua	Tanaissus lilljeborgi	Tanaissus lilljeborgi
Tanaissus lilljeborgi	Protohaustorius wigleyi	Bathyporeia quoddyensis
Spisula solidissima	Pseudunciola obliquua	Protohaustorius wigleyi
Protohaustorius wigleyi	Bathyporeia quoddyensis	Pseuduniciola obliquua
Bathyporeia quoddyensis	Rhepoxynius hudsoni	Polydora blakei
Echinarachnius parma	Spisula solidissima	Tellina agilis
Schistomeringos caeca	Tellina agilis	Echinarachnius parma
Tellina agilis	Pseudohaustorius caroliniensis	Pseudohaustorius caroliniensis
Streptosyllis varians	Echinarachnius parma	Rhepoxynius hudsoni
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Tellina agilis	Tanaissus lilljeborgi	Polygordius sp. A
Pseudunciola obliquua	Echinarachnius parma	Tanaissus lilljeborgi
Tanaissus lilljeborgi	Protohaustorius wigleyi	Bathyporeia quoddyensis
Polygordius sp. A	Pseudunciola obliquua	Protohaustorius wigleyi
Protohaustorius wigleyi	Bathyporeia quoddyensis	Pseudunciola obliquua
Rhepoxynius hudsoni	Tellina agilis	Aricidea (Aricidea) wassi
Bathyporeia quoddyensis	Polygordius sp. A	Tellina agilis
Echinarachnius parma	Rhepoxynius hudsoni	Pseudohaustorius caroliniensis
Spisula solidissima	Spisula solidissima	Streptosyllis varians
Nephtys bucera	Pseudohaustorius caroliniensis	Rhepoxynius hudsoni
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Capitella spp.	Echinarachnius parma	Capitella jonesi
Tanaissus lilljeborgi	Tannaissus lilljeborgi	Polygordius sp. A
Protohaustorius wigleyi	Protohaustorius wigleyi	Spiophanes bombyx
Polygordius sp. A	Rhepoxynius hudsoni	Tanaissus lilljeborgi
Capitella jonesi	Bathyporeia quoddyensis	Nephtys bucera
Tellina agilis	Nephtys bucera	Protohaustorius wigleyi
Rhepoxynius hudsoni	Spiophanes bombyx	Bathyporeia quoddyensis
Pseudunciola obliquua	Polygordius sp. A	Pseudunciola obliquua
Echinarachnius parma	Pseudohaustorius caroliniensis	Echinarachnius parma
Pseudohaustorius caroliniensis	Nemertea sp. A	Rhepoxynius hudsoni

TABLE E-2. DOMINANT SPECIES AT REGIONAL STATION 2 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Parapionosyllis longicirrata	Parapionosyllis longicirrata	Erichthonius fasciatus
Exogone hebes	Exogone hebes	Byblis serrata
Echinarachnius parma	Echinarachnius parma	Parapionosyllis longicirrata
Exogone verugera	Exogone verugera	Exogone hebes
Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons
Phallodrilus biprostatus	Phallodrilus biprostatus	Polygordius sp. A
Streptosyllis arenae	Streptosyllis arenae	Exogone verugera
Polygordius sp. A	Spiophanes bombyx	Unciola irrorata
Spiophanes bombyx	Chaetozone n. sp. A	Streptosyllis arenae
Hesionura elongata	Erichthonius fasciatus	Unciola inermis
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Parapionosyllis longicirrata	Parapionosyllis longicirrata	Erichthonius fasciatus
Byblis serrata	Byblis serrata	Parapionosyllis longicirrata
Exogone hebes	Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons
Exogone verugera	Exogone verugera	Exogone verugera
Polygordius sp. A	Polygordius sp. A	Exogone hebes
Phallodrilus biprostatus	Exogone hebes	Streptosyllis arenae
Sphaerosyllis cf. brevifrons	Phallodrilus biprostatus	Euclymene sp. A
Streptosyllis arenae	Euclymene sp. A	Goniadella gracilis
Tharyx sp. A	Aricidea (Acmira) cerruti	Tharyx sp. A
Hesionura elongata	Unciola irrorata	Phallodrilus biprostatus
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Parapionosyllis longicirrata	Byblis serrata	Parapionosyllis longicirrata
Sphaerosyllis cf. brevifrons	Parapionosyllis longicirrata	Sphaerosyllis cf. brevifrons
Exogone verugera	Sphaerosyllis cf. brevifrons	Exogone hebes
Exogone hebes	Exogone verugera	Exogone verugera
Phallodrilus biprostatus	Exogone hebes	Hesionura elongata
Streptosyllis arenae	Phallodrilus biprostatus	Streptosyllis arenae
Syllides benedicti	Syllides benedicti	Polygordius sp. A
Tharyx sp. A	Polygordius sp. A	Byblis serrata
Schistomeringos caeca	Streptosyllis arenae	Tanaissus lilljeborgi
Byblis serrata	Goniadella gracilis	Phallodrilus biprostatus
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Parapionosyllis longicirrata	Byblis serrata	Parapionosyllis longicirrata
Echinarachnius parma	Parapionosyllis longicirrata	Exogone hebes
Exogone hebes	Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons
Phallodrilus biprostatus	Exogone hebes	Exogone verugera
Byblis serrata	Exogone verugera	Streptosyllis arenae
Streptosyllis arenae	Syllides benedicti	Polygordius sp. A
Exogone verugera	Streptosyllis arenae	Hesionura elongata
Syllides benedicti	Polygordius sp. A	Syllides benedicti
Sphaerosyllis cf. brevifrons	Tharyx sp. A	Phallodrilus biprostatus
Hesionura elongata	Phallodrilus biprostatus	Erichthonius fasciatus

TABLE E-3. DOMINANT SPECIES AT REGIONAL STATION 3 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Notomastus latericeus	Erichthonius fasciatus	Erichthonius fasciatus
Arctica islandica	Aglaophamus circinata	Notomastus latericeus
Ampelisca agassizi	Notomastus latericeus	Uniciola inermis
Protodorvillea gaspeensis	Protodorvillea gaspeensis	Protodorvillea gaspeensis
Unciola inermis	Polygordius sp. A	Spio cf. armata
Scalibregma inflatum	Apistobranchus tullbergi	Apistobranchus tullbergi
Erichthonius fasciatus	Ampelisca agassizi	Paraonis n. sp. A
Harmothoe extenuata	Exogone hebes	Aglaophamus circinata
Polygordius sp. A	Unciola inermis	Exogone hebes
Paraonis n. sp. A	Paraonis n. sp. A	Ampelisca agassizi
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Polygordius sp. A	Erichthonius fasciatus	Protodorvillea gaspeensis
Notomastus latericeus	Notomastus latericeus	Erichthonius fasciatus
Protodorvillea gaspeensis	Ampelisca agassizi	Notomastus latericeus
Euchone hancocki	Polygordius sp. A	Tubificoides n. sp. A
Paraonis n. sp. A	Protodorvillea gaspeensis	Paraonis n. sp. A
Ampelisca agassizi	Paraonis n. sp. A	Exogone hebes
Scoloplos acmeceps	Aglaophamus circinata	Stenopleustes gracilis
Erichthonius fasciatus	Exogone hebes	Aglaophamus circinata
Arctica islandica	Tubificoides n. sp. A	Ampelisca agassizi
Exogone hebes	Apistobranchus tullbergi	Apistobranchus tullbergi
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Polygordius sp. A	Erichthonius fasciatus	Protodorvillea gaspeensis
Notomastus latericeus	Protodorvillea gaspeensis	Ampelisca agassizi
Protodorvillea gaspeensis	Notomastus latericeus	Notomastus latericeus
Arctica islandica	Ampelisca agassizi	Erichthonius fasciatus
Ampelisca agassizi	Aglaophamus circinata	Tubificoides n. sp. A
Erichthonius fasciatus	Paraonis n. sp. A	Paraonis n. sp. A
Paraonis n. sp. A	Exogone hebes	Apistobranchus tullbergi
Spiophanes kroeyeri	Tubificoides n. sp. A	Aglaophamus circinata
Apistobranchus tullbergi	Aberranta enigmatica	Exogone hebes
Nucula delphinodonta	Eudorella pusilla	Tharyx acutus
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Notomastus latericeus	Erichthonius fasciatus	Erichthonius fasciatus
Polygordius sp. A	Notomastus latericeus	Protodorvillea gaspeensis
Unciola inermis	Unciola inermis	Notomastus latericeus
Ampelisca agassizi	Protodorvillea gaspeensis	Tubificoides n. sp. A
Aglaophamus circinata	Aglaophamus circinata	Harmothoe extenuata
Erichthonius fasciatus	Spio cf. armata	Ampelisca agassizi
Scalibregma inflatum	Ampelisca agassizi	Exogone hebes
Exogone hebes	Paraonis n. sp. A	Aglaophamus circinata
Protodorvillea gaspeensis	Exogone hebes	Paraonis n. sp. A
Paraonis n. sp. A	Prionospio steenstrupi	Amphipholis squamata

TABLE E-4. DOMINANT SPECIES AT REGIONAL STATION 4 FROM JULY 1981 to JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Tellina agilis	Polygordius sp. A	Polygordius sp. A
Polygordius sp. A	Protohaustorius wigleyi	Protohaustorius wigleyi
Protohaustorius wigleyi	Tellina agilis	Rhepoxynius hudsoni
Rhepoxynius hudsoni	Echinarachnius parma	Echinarachnius parma
Echinarachnius parma	Rhepoxynius hudsoni	Pseudohaustorius caroliniensis
Pseudohaustorius caroliniensis	Sthenelais picta	Tellina agilis
Acanthohaustorius millsi	Bivalvia sp. F	Spiophanes bombyx
Spisula solidissima	Pseudohaustorius caroliniensis	Sthenelais limicola
Arctica islandica	Spiophanes bombyx	Phyllodoce mucosa
Monoculodes edwardsi	Sthenelais limicola	Aglaophamus circinata
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Polygordius sp. A	Polygordius sp. A	Polygordius sp. A
Protohaustorius wigleyi	Protohaustorius wigleyi	Protohaustorius wigleyi
Tellina agilis	Tellina agilis	Rhepoxynius hudsoni
Rhepoxynius hudsoni	Rhepoxynius hudsoni	Pseudohaustorius caroliniensis
Erichthonius fasciatus	Pseudohaustorius caroliniensis	Tellina agilis
Proceraea cornuta	Echinarachnius parma	Tanaissus lilljeborgi
Palliolum sp. B	Bivalvia sp. F	Echinarachnius parma
Echinarachnius parma	Nemertea sp. A	Spiophanes bombyx
Pseudohaustorius caroliniensis	Spiophanes bombyx	Aglaophamus circinata
Sthenelais limicola	Spisula solidissima	Erichthonius fasciatus
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Polygordius sp. A		Polygordius sp. A
Tellina agilis		Protohaustorius wigleyi
Protohaustorius wigleyi		Rhepoxynius hudsoni
Rhepoxynius hudsoni		Tellina agilis
Pseudohaustorius caroliniensis	No Samples Collected	Pseudohaustorius caroliniensis
Echinarachnius parma		Tanaissus lilljeborgi
Cirolana polita		Echinarachnius parma
Spisula solidissima		Aglaophamus circinata
Nemertea sp. A		Arctica islandica
Tanaissus lilljeborgi		Spiophanes bombyx
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Polygordius sp. A	Polygordius sp. A	Polygordius sp. A
Echinarachnius parma	Protohaustorius wigleyi	Echinarachnius parma
Protohaustorius wigleyi	Echinarachnius parma	Protohaustorius wigleyi
Tellina agilis	Rhepoxynius hudsoni	Rhepoxynius hudsoni
Rhepoxynius hudsoni	Pseudohaustorius caroliniensis	Pseudohaustorius caroliniensis
Pseudohaustorius caroliniensis	Tellina agilis	Tellina agilis
Unciola inermis	Aglaophamus circinata	Aglaophamus circinata
Nemertea sp. A	Bivalvia sp. F	Nephtys bucera
Proceraea cornuta	Nemertea sp. A	Arctica islandica
Erichthonius fasciatus	Ceriantheopsis americanus	Capitella jonesi

TABLE E-5. DOMINANT SPECIES AT REGIONAL STATION 5 (SITE-SPECIFIC STATION 5-1) FROM JULY 1981 to JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Erichthonius fasciatus	Exogone verugera	Exogone verugera
Exogone verugera	Erichthonius fasciatus	Exogone hebes
Unciola inermis	Exogone hebes	Erichthonius fasciatus
Exogone hebes	Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons
Sphaerosyllis cf. brevifrons	Parapionosyllis longicirrata	Parapionosyllis longicirrata
Euclymene sp. A	Unciola inermis	Unciola inermis
Phallodrilus biprostatus	Phallodrilus biprostatus	Euclymene sp. A
Parapionosyllis longicirrata	Aricidea (Acmira) catherinae	Polygordius sp. A
Aricidea (Acmira) catherinae	Euclymene sp. A	Phallodrilus biprostatus
Tharyx sp. A	Tharyx sp. A	Aricidea (Acmira) catherinae
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Exogone hebes	Erichthonius fasciatus	Exogone verugera
Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons
Exogone verugera	Exogone hebes	Exogone hebes
Erichthonius fasciatus	Exogone verugera	Parapionosyllis longicirrata
Phallodrilus biprostatus	Polygordius sp. A	Erichthonius fasciatus
Unciola inermis	Parapionosyllis longicirrata	Euclymene sp. A
Euclymene sp. A	Phallodrilus biprostatus	Unciola inermis
Tharyx acutus	Euclymene sp. A	Aricidea (Acmira) catherinae
Schistomeringos caeca	Tharyx acutus	Tharyx acutus
Tharyx sp. A	Aricidea (Acmira) catherinae	Phallodrilus biprostatus
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Exogone verugera	Erichthonius fasciatus	Erichthonius fasciatus
Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons	Exogone verugera
Exogone hebes	Exogone hebes	Sphaerosyllis cf. brevifrons
Parapionosyllis longicirrata	Exogone verugera	Exogone hebes
Phallodrilus biprostatus	Parapionosyllis longicirrata	Euclymene sp. A
Unciola inermis	Phallodrilus biprostatus	Parapionosyllis longicirrata
Euclymene sp. A	Polygordius sp. A	Unciola inermis
Aricidea (Acmira) catherinae	Euclymene sp. A	Tharyx acutus
Tharyx acutus	Tharyx acutus	Aricidea (Acmira) catherinae
Protodorvillea kefersteini	Aricidea (Acmira) catherinae	Polygordius sp. A
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Sphaerosyllis cf. brevifrons	Erichthonius fasciatus	Erichthonius fasciatus
Exogone verugera	Sphaerosyllis cf. brevifrons	Unciola inermis
Exogone hebes	Exogone hebes	Exogone verugera
Unciola inermis	Exogone verugera	Exogone hebes
Erichthonius fasciatus	Unciola inermis	Sphaerosyllis cf. brevifrons
Parapionosyllis longicirrata	Parapionosyllis longicirrata	Diastylis quadrispinosa
Phallodrilus biprostatus	Aricidea (Acmira) catherinae	Parapionosyllis longicirrata
Aricidea (Acmira) catherinae	Tharyx sp. A	Euclymene sp. A
Tharyx sp. A	Euclymene sp. A	Aricidea (Acmira) catherinae
Tharyx acutus	Phallodrilus biprostatus	Novaquesta trifurcata

TABLE E-6. DOMINANT SPECIES AT SITE-SPECIFIC STATION 5-18 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Exogone verugera	Erichthonius fasciatus	Erichthonius fasciatus
Erichthonius fasciatus	Exogone hebes	Sphaerosyllis cf. brevifrons
Exogone hebes	Sphaerosyllis cf. brevifrons	Exogone hebes
Unciola inermis	Exogone verugera	Exogone verugera
Sphaerosyllis cf. brevifrons	Unciola inermis	Unciola inermis
Phallodrilus biprostatus	Phallodrilus biprostatus	Parapionosyllis longicirrata
Tharyx acutus	Parapionosyllis longicirrata	Euclymene sp. A
Euclymene sp. A	Euclymene sp. A	Aricidea (Acmira) catherinae
Parapionosyllis longicirrata	Tharyx acutus	Tharyx acutus
Aricidea (Acmira) catherinae	Chone duneri	Phallodrilus biprostatus
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Exogone hebes	Exogone hebes	Exogone hebes
Exogone verugera	Sphaerosyllis cf. brevifrons	Erichthonius fasciatus
Sphaerosyllis cf. brevifrons	Exogone verugera	Exogone verugera
Erichthonius fasciatus	Polygordius sp. A	Sphaerosyllis cf. brevifrons
Phallodrilus biprostatus	Phallodrilus biprostatus	Euclymene sp. A
Parapionosyllis longicirrata	Parapionosyllis longicirrata	Parapionosyllis longicirrata
Unciola inermis	Euclymene sp. A	Unciola inermis
Euclymene sp. A	Tharyx acutus	Polygordius sp. A
Tharyx acutus	Aricidea (Acmira) catherinae	Tharyx acutus
Aricidea (Acmira) catherinae	Erichthonius fasciatus	Phallodrilus biprostatus
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Exogone hebes	Sphaerosyllis cf. brevifrons	Exogone hebes
Sphaerosyllis cf. brevifrons	Exogone hebes	Exogone verugera
Erichthonius fasciatus	Erichthonius fasciatus	Erichthonius fasciatus
Phallodrilus biprostatus	Exogone verugera	Sphaerosyllis cf. brevifrons
Parapionosyllis longicirrata	Phallodrilus biprostatus	Euclymene sp. A
Euclymene sp. A	Parapionosyllis longicirata	Parapionosyllis longicirrata
Aricidea (Acmira) catherinae	Polygordius sp. A	Polygordius sp. A
Tharyx acutus	Euclymene sp. A	Uniciola inermis
Unciola inermis	Aricidea (Acmira) catherinae	Phallodrilus biprostatus
Schistomeringos caeca	Tharyx acutus	Acridea (Acmira) catherinae
		Tharyx acutus
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Sphaerosyllis cf. brevifrons	Erichthonius fasciatus	Erichthonius fasciatus
Exogone hebes	Sphaerosyllis cf. brevifrons	Unciola inermis
Exogone verugera	Exogone hebes	Exogone verugera
Unciola inermis	Uniciola inermis	Exogone hebes
Phallodrilus biprostatus	Exogone verugera	Sphaerosyllis cf. brevifrons
Erichthonius fasciatus	Parapionosyllis longicirrata	Euclymene sp. A
Tharyx acutus	Phallodrilus biprostatus	Parapionosyllis longicirrata
Parapionosyllis longicirrata	Euclymene sp. A	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Polygordius sp. A	Tharyx acutus
Euclymene sp. A	Aricidea (Acmira) catherinae	Amphipholis squamata

TABLE E-7. DOMINANT SPECIES AT SITE-SPECIFIC STATION 5-28 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Unciola inermis	Erichthonius fasciatus	Erichthonius fasciatus
Erichthonius fasciatus	Exogone verugera	Exogone verugera
Sphaerosyllis cf. brevifrons	Unciola inermis	Unciola inermis
Exogone verugera	Sphaerosyllis cf. brevifrons	Sphaerosyllis cf. brevifrons
Phallodrilus biprostatus	Exogone hebes	Parapionosyllis longicirrata
Parapionosyllis longicirrata	Parapionosyllis longicirrata	Exogone hebes
Exogone hebes	Phallodrilus biprostatus	Euclymene sp. A
Euclymene sp. A	Aricidea (Acmira) catherinae	Phallodrilus biprostatus
Protodorvillea kefersteini	Euclymene sp. A	Protodorvillea kefersteini
Aricidea (Acmira) catherinae	Protodorvillea kefersteini	Tharyx sp. A
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Erichthonius fasciatus	Erichthonius fasciatus	Exogone verugera
Unciola inermis	Exogone verugera	Parapionosyllis longicirrata
Parapionosyllis longicirrata	Parapionosyllis longicirrata	Euclymene sp. A
Exogone verugera	Sphaerosyllis cf. brevifrons	Erichthonius fasciatus
Sphaerosyllis cf. brevifrons	Exogone hebes	Exogone hebes
Exogone hebes	Unciola inermis	Sphaerosyllis cf. brevifrons
Phallodrilus biprostatus	Phallodrilus biprostatus	Unciola inermis
Euclymene sp. A	Acricidea (Acmira) catherinae	Protodorvillea kefersteini
Aricidea (Acmira) catherinae	Tharyx acutus	Aricidea (Acmira) cerruti
Protodorvillea kefersteini	Euclymene sp. A	Tharyx sp. A
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Erichthonius fasciatus	Exogone verugera	Parapionosyllis longicirrata
Exogone verugera	Sphaerosyllis cf. brevifrons	Exogone verugera
Unciola inermis	Parapionosyllis longicirrata	Euclymene sp. A
Parapionosyllis longicirrata	Phallodrilus biprostatus	Exogone hebes
Sphaerosyllis cf. brevifrons	Exogone hebes	Unciola inermis
Euclymene sp. A	Protodorvillea kefersteini	Protodorvillea kefersteini
Exogone hebes	Unciola inermis	Sphaerosyllis cf. brevifrons
Phallodrilus biprostatus	Aricidea (Acmira) catherinae	Aricidea (Acmira) cerruti
Aricidea (Acmira) cerruti	Tharyx sp. A	Tharyx sp. A
Aricidea (Acmira) catherinae	Aricidea (Acmira) cerruti	Phallodrilus biprostatus
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Unciola inermis	Sphaerosyllis cf. brevifrons	Exogone verugera
Erichthonius fasciatus	Exogone verugera	Unciola inermis
Exogone verugera	Exogone hebes	Parapionosyllis longicirrata
Sphaerosyllis cf. brevifrons	Parapionosyllis longicirrata	Euclymene sp. A
Parapionosyllis longicirrata	Erichthonius fasciatus	Erichthonius fasciatus
Exogone hebes	Unciola inermis	Exogone hebes
Phallodrilus biprostatus	Aricidea (Acmira) catherinae	Sphaerosyllis cf. brevifrons
Aricidea (Acmira) catherinae	Euclymene sp. A	Protodorvillea kefersteini
Tharyx sp. A	Phallodrilus biprostatus	Acricidea (Acmira) cerruti
Protodorvillea kefersteini	Protodorvillea kefersteini	Tharyx sp. A

TABLE E-8. DOMINANT SPECIES AT REGIONAL STATION 6 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Exogone hebes	Exogone hebes	Exogone hebes
Protodorvillea gaspeensis	Protodorvillea gaspeensis	Protodorvillea gaspeensis
Polygordius sp. A	Notomastus latericeus	Notomastus latericeus
Notomastus latericeus	Aglaophamus circinata	Euchone hancocki
Aglaophamus circinata	Polygordius sp. A	Paraonis n. sp. A
Tharyx acutus	Paraonis n. sp. A	Prionospio cirrifera
Schistomeringos caeca	Tubificoides n. sp. A	Tubificoides n. sp. A
Exogone verugera	Lumbrineris latreilli	Prionospio steenstrupi
Euchone hancocki	Unciola irrorata	Aglaophamus circinata
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Polygordius sp. A	Erichthonius fasciatus	Exogone hebes
Exogone hebes	Polygordius sp. A	Protodorvillea gaspeensis
Erichthonius fasciatus	Exogone hebes	Notomastus latericeus
Protodorvillea gaspeensis	Protodorvillea gaspeensis	Paraonis n. sp. A
Notomastus latericeus	Notomastus latericeus	Tharyx annulosus
Paraonis n. sp. A	Tubificoides n. sp. A	Tubificoides n. sp. A
Aglaophamus circinata	Chone duneri	Amphipholis squamata
Tharyx annulosus	Lumbrineris latreilli	Polygordius sp. A
Laonice cirrata	Aglaophamus circinata	
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Erichthonius fasciatus	Erichthonius fasciatus	Protodorvillea gaspeensis
Polygordius sp. A	Exogone hebes	Exogone hebes
Exogone hebes	Protodorvillea gaspeensis	Erichthonius fasciatus
Protodorvillea gaspeensis	Notomastus latericeus	Notomastus latericeus
Notomastus latericeus	Polygordius sp. A	Paraonis n.sp. A
Paraonis n. sp. A	Euchone hancocki	Tharyx annulosus
Chone duneri	Tubificoides n. sp. A	Euchone hancocki
Exogone verugera	Aglaophamus circinata	Tubificoides n. sp. A
Lumbrineris latreilli	Chone duneri	Prionospio cirrifera
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Exogone hebes	Exogone hebes	Exogone hebes
Erichthonius fasciatus	Protodorvillea gaspeensis	Euchone hancocki
Polygordius sp. A	Euchone hancocki	Protodorvillea gaspeensis
Aglaophamus circinata	Notomastus latericeus	Notomastus latericeus
Protodorvillea gaspeensis	Paraonis n. sp. A	Paraonis n. sp. A
Notomastus latericeus	Aglaophamus circinata	Tharyx annulosus
Paraonis n. sp. A	Chone infundibuliformis	Prionospio cirrifera
Tubificoides n. sp. A	Tharyx annulosus	Aglaophamus circinata
Lumbrineris latreilli	Polygordius sp. A	Tubificoides n. sp. A

TABLE E-9. DOMINANT SPECIES AT REGIONAL STATION 7 FROM JULY 1981 TO MAY 1982 (M1-M4).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Protodorvillea gaspeensis Lumbrineris latreilli Tharyx marioni Aricidea (Acmira) catherinae Aricidea (Allia) suecica Paraonis n. sp. A Prionospio cirrifera Aricidea (Acmira) neosuecica Tharyx acutus Polygordius sp. A	No Samples Collected	No Samples Collected
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Lumbrineris latreilli Polygordius sp. A Chone duneri Eclysippe sp. A Olavius tenuissimus Aricidea (Acmira) neosuecica Protodorvillea gaspeensis Tharyx acutus Tharyx marioni Aricidea (Acmira) catherinae	No Samples Collected	No Samples Collected
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Eclysippe sp. A Lumbrineris latreilli Aricidea (Acmira) neosuecica Protodorvillea gaspeensis Tharyx annulosus Tharyx marioni Chone duneri Polygordius sp. A Olavius tenuissimus Tharyx acutus	No Samples Collected	No Samples Collected
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Olavius tenuissimus Eclysippe sp. A Lumbrineris latreilli Protodorvillea gaspeensis Tharyx marioni Polycirrus sp. A Chone duneri Aricidea (Acmira) neosuecica Aricidea (Acmira) catherinae Polygordius sp. A	No Samples Collected	No Samples Collected

TABLE E-10. DOMINANT SPECIES AT REGIONAL STATION 7A FROM JULY 1982 TO JUNE 1984 (M5-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
No Samples Collected	Ampelisca agassizi Cossura longocirrata Levinsenia gracilis Aricidea (Allia) suecica Tubificoides n. sp. A Ninoe nigripes Terebellides stroemi Aglaophamus circinata Aricidea (Allia) quadrilobata Ampharetidae n.g., n. sp. C	Cossura longocirrata Ampelisca agassizi Aricidea (Allia) suecica Levinsenia gracilis Prionospio cirrifera Tubificoides n. sp. A Ninoe nigripes Aricidea (Allia) quadrilobata Lucinoma filosa Thyasira sp. C
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
No Samples Collected	Aricidea (Allia) suecica Ampelisca agassizi Cossura longocirrata Levinsenia gracilis Tubificoides n. sp. A Periploma papyratium Lucinoma filosa Thyasira sp. B Ninoe nigripes Tharyx annulosus	Levinsenia gracilis Aricidea (Allia) suecica Cossura longocirrata Ampelisca agassizi Tubificoides n. sp. A Prionospio cirrifera Periploma papyratium Aricidea (Allia) quadrilobata Lucinoma filosa Ninoe nigripes
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
No Samples Collected	Ampelisca agassizi Levinsenia gracilis Aricidea (Allia) suecica Cossura longocirrata Tubificoides n. sp. A Lucinoma filosa Periploma papyratium Ninoe nigripes Aricidea (Allia) quadrilobata Thyasira sp. B	Aricidea (Allia) suecica Ampelisca agassizi Levinsenia gracilis Cossura longocirrata Aricidea (Allia) quadrilobata Tubificoides n. sp. A Prionospio cirrifera Lucinoma filosa Alvania pelagica Periploma papyratium
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
No Samples Collected	Ampelisca agassizi Cossura longocirrata Aricidea (Allia) suecica Levinsenia gracilis Tubificoides n. sp. A Ninoe nigripes Aricidea (Allia) quadrilobata Periploma papyratium Lucinoma filosa Ampharetidae n.g., n. sp. C	Aricidea (Allia) suecica Ampelisca agassizi Cossura longocirrata Levinsenia gracilis Tubificoides n. sp. A Periploma papyratium Aricidea (Allia) quadrilobata Ninoe nigripes Lucinoma filosa Ampharetidae n. g., n. sp. C

TABLE E-11. DOMINANT SPECIES AT REGIONAL STATION 8 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Tharyx nr. monilaris	Lumbrineris latreilli	Lumbrineris latreilli
Lumbrineris latreilli	Tharyx marioni	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae	Tharyx marioni
Wireniidae spp.	Chone duneri	Aricidea (Acmira) neosuecica
Aricidea (Acmira) neosuecica	Paraonis n. sp. A	Prionospio cirrifera
Tharyx marioni	Aricidea (Acmira) neosuecica	Paraonis n. sp. A
Polycirrus sp. A	Polycirrus sp. A	Wireniidae spp.
Unciola irrorata	Wireniidae spp.	Chaetozone n. sp. B
Nereis grayi	Nothria britannica	Notomastus latericeus
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Lumbrineris latreilli	Tharyx marioni	Aricidea (Acmira) catherinae
Polygordius sp. A	Aricidea (Acmira) catherinae	Tharyx marioni
Aricidea (Acmira) catherinae	Lumbrineris latreilli	Lumbrineris latreilli
Chone duneri	Chone duneri	Aricidea (Acmira) neosuecica
Tharyx marioni	Aricidea (Acmira) neosuecica	Paraonis n. sp. A
Aricidea (Acmira) neosuecica	Chaetozone n. sp. B	Chaetozone n. sp. B
Tharyx nr. monilaris	Paraonis n. sp. A	Notomastus latericeus
Nothria britannica	Euchone hancocki	Protodorvillea gaspeensis
Paraonis n. sp. A	Wireniidae spp.	Polycirrus sp. G
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Lumbrineris latreilli	Lumbrineris latreilli	Aricidea (Acmira) catherinae
Tharyx nr. monilaris	Aricidea (Acmira) catherinae	Tharyx marioni
Polygordius sp. A	Tharyx marioni	Lumbrineris latreilli
Aricidea (Acmira) catherinae	Wireniidae spp.	Paraonis n. Sp. A
Chone duneri	Chaetozone n. sp. B	Aricidea (Acmira) neosuecica
Aricidea (Acmira) neosuecica	Aricidea (Acmira) neosuecica	Chaetozone n. sp. B
Polycirrus sp. A	Notomastus latericeus	Nothria britannica
Paraonis n. sp. A	Nothria britannica	Protodorvillea gaspeensis
Wireniidae spp.	Paraonis n. sp. A	Polycirrus sp. A
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae
Paraonis n. sp. A	Tharyx marioni	Tharyx marioni
Lumbrineris latreilli	Lumbrineris latreilli	Lumbrineris latreilli
Tharyx marioni	Paraonis n. sp. A	Aricidea (Acmira) neosuecica
Tharyx nr. monilaris	Aricidea (Acmira) neosuecica	Chaetozone n. sp. B
Paradoneis n. sp. A	Chaetozone n. sp. B	Nothria britannica
Aricidea (Acmira) neosuecica	Wireniidae spp.	Tharyx annulosus
Nothria britannica	Polycirrus sp. A	Paraonis n. sp. A
Chone duneri	Notomastus latericeus	Protodorvillea gaspeensis

TABLE E-12. DOMINANT SPECIES AT REGIONAL STATION 9 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Protodorvillea gaspeensis	Protodorvillea gaspeensis	Protodorvillea gaspeensis
Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae
Paraonis n. sp. A	Eclysippe sp. A	Paraonis n. sp. A
Phallodrilus biprostatus	Aricidea (Allia) suecica	Eclysippe sp. A
Eclysippe sp. A	Paranois n. sp. A	Uniciola irrorata
Ampharetidae n.g., n. sp. A	Wireniidae spp.	Tubificoides n. sp. A
Polygordius sp. A	Lumbrineris latreilli	Lumbrineris latreilli
Euchone hancocki	Polygordius sp. A	Tharyx marioni
Tharyx nr. monilaris	Aglaophamus circinata	Exogone verugera
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Polygordius sp. A	Polygordius sp. A	Tubificoides n. sp. A
Protodorvillea gaspeensis	Protodorvillea gaspeensis	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Eclysippe sp. A	Protodorvillea gaspeensis
Eclysippe sp. A	Aricidea (Acmira) catherinae	Paraonis n. sp. A
Paraonis n. sp. A	Tubificoides n. sp. A	Eclysippe sp. A
Exogone hebes	Paraonis n. sp. A	Tharyx annulosus
Tubificoides n. sp. A	Lumbrineris latreilli	Thyasira sp. B
Euchone hancocki	Exogone verugera	Ampharetidae n.g., n. sp. C
Lumbrineris latreilli	Tharyx annulosus	Prionospio cirrifera
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Ampelisca agassizi		Ampelisca agassizi
Eclysippe sp. A		Tubificoides n. sp. A
Aricidea (Acmira) catherinae		Aricidea (Acmira) catherinae
Polygordius sp. A		Protodorvillea gaspeensis
Protodorvillea gaspeensis	No Samples Collected	Paraonis n. sp. A
Paraonis n. sp. A		Ampharetidae n.g., n. sp. C
Tubificoides n. sp. A		Eclysippe sp. A
Tharyx marioni		Tharyx annulosus
Myriochele sp. A		Lumbrineris latreilli
Lumbrineris latreilli		Euchone hancocki
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Protodorvillea gaspeensis	Eclysippe sp. A	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae	Tubificoides n. sp. A
Eclysippe sp. A	Protodorvillea gaspeensis	Ampharetidae n.g., n sp. C
Paraonis n. sp. A	Paraonis n. sp. A	Paraonis n. sp. A
Polygordius sp. A	Lumbrineris latreilli	Protodorvillea gaspeensis
Lumbrineris latreilli	Tubificoides n. sp. A	Euchone hancocki
Tharyx marioni	Tharyx annulosus	Eclysippe sp. A
Tharyx annulosus	Aglaophamus circinata	Aricidea (Allia) suecica
Euchone hancocki	Exogone naidena	Tharyx marioni

TABLE E-13. DOMINANT SPECIES AT REGIONAL STATION 10 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Polygordius sp. A	Tanaissus lilljeborgi	Polygordius sp. A
Tanaissus lilljeborgi	Echinarachnius parma	Tanaissus lilljeborgi
Echinarachnius parma	Polygordius sp. A	Echinarachnius parma
Protohaustorius wigleyi	Spisula solidissima	Exogone hebes
Exogone hebes	Paraonis n. sp. A	Schistomeringos caeca
Tellina agilis	Spiophanes bombyx	Streptosyllis varians
Crangon septemspinosa	Tellina agilis	Aricidea (Aricidea) wassi
Rhepoxynius hudsoni	Pseudunciola obliquua	Protohaustorius wigleyi
Streptosyllis varians	Rhepoxynius hudsoni	Scolelepis squamata
Pseudunciola obliquua	Exogone hebes	Psammodrilus balanoglossoides
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Polygordius sp. A	Polygordius sp. A	Polygordius sp. A
Echinarachnius parma	Tanaissus lilljeborgi	Tanaissus lilljeborgi
Tanaissus lilljeborgi	Echinarachnius parma	Exogone hebes
Rhepoxynius hudsoni	Protohaustorius wigleyi	Rhepoxynius hudsoni
Protohaustorius wigleyi	Rhepoxynius hudsoni	Echinarachnius parma
Tellina agilis	Tellina agilis	Paraonis n. sp. A
Exogone hebes	Exogone hebes	Protohaustorius wigleyi
Paraonis n. sp. A	Streptosyllis varians	Schistomeringos caeca
Spisula solidissima	Nemertea sp. A	Olavius tenuissimus
Nemertea sp. A	Paraonis n. sp. A	Nemertea sp. A
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Tanaissus lilljeborgi	Polygordius sp. A	Polygordius sp. A
Polygordius sp. A	Echinarachnius parma	Protodriloides chaetifer
Echinarachnius parma	Tanaissus lilljeborgi	Grania n. sp. A
Protohaustorius wigleyi	Rhepoxynius hudsoni	Exogone hebes
Rhepoxynius hudsoni	Tellina agilis	Nemertea sp. E
Exogone hebes	Schistomeringos caeca	Nemertea sp. B
Erichthonius fasciatus	Protodrilus sp. A	Tanaissus lilljeborgi
Tellina agilis	Protohaustorius wigleyi	Phallodrilus coeloprostratus
Streptosyllis varians	Nemertea sp. A	Nemertea sp. Q
Nemertea sp. A	Aglaophamus circinata	Spisula solidissma
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Polygordius sp. A	Polygordius sp. A	Echinarachnius parma
Echinarachnius parma	Echinarachnius parma	Polygordius sp. A
Tanaissus lilljeborgi	Tanaissus lilljeborgi	Tanaissus lilljeborgi
Exogone hebes	Rhepoxynius hudsoni	Scolelepis squamata
Rhepoxynius hudsoni	Exogone hebes	Exogone hebes
Protohaustorius wigleyi	Protohaustorius wigleyi	Aricidea (Aricidea) wassi
Streptosyllis varians	Paraonis n. sp. A	Grania n. sp. A
Schistomeringos caeca	Nemertea sp. A	Aglaophamus circinata
Tellina agilis	Schistomeringos caeca	Protodriloides chaetifer
Grania n. sp. B	Aricidea (Aricidea) wassi	Artica islandica

TABLE E-14. DOMINANT SPECIES AT REGIONAL STATION 11 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)

Tubificoides n. sp. A
Nucula proxima
Aglaophamus circinata
Nucula delphinodonta
Ninoe nigripes
Protodorvillea gaspeensis
Levinsenia gracilis
Polygordius sp. A
Rhepoxynius hudsoni
Aricidea (Acmira) catherinae

M2 (November 1981)

Polygordius sp. A
Tubificoides n. sp. A
Rhepoxynius hudsoni
Spiophanes bombyx
Protodorvillea gaspeensis
Nucula proxima
Levinsenia gracilis
Aglaophamus circinata
Phallodrilus biprostratus
Nucula delphinodonta

M3 (February 1982)

Polygordius sp. A
Levinsenia gracilis
Protodorvillea gaspeensis
Tubificoides n. sp. A
Nucula proxima
Spiophanes bombyx
Aglaophamus circinata
Ninoe nigripes
Rhepoxynius hudsoni
Nucula delphinodonta

M4 (May 1982)

Polygordius sp. A
Aglaophamus circinata
Echinarachnius parma
Tubificoides n. sp. A
Ophelina acuminata
Nucula proxima
Scalibregma inflatum
Rhepoxynius hudsoni
Levinsenia gracilis
Protodorvillea gaspeensis

M5 (July 1982)

Erichthonius fasciatus
Aglaophamus circinata
Polygordius sp. A
Arctica islandica
Echinarachinius parma
Tubificoides n. sp. A
Ophelina acuminata
Nucula proxima
Diastylis sculpta
Stenopleustes inermis

M6 (November 1982)

Polygordius sp. A
Aglaophamus circinata
Tubificoides n. sp. A
Rhepoxynius hudsoni
Arctica islandica
Protodorvillea gaspeensis
Tharyx acutus
Levinsenia gracilis
Eudorella pusilla
Nucula delphinodonta

M7 (February 1983)

No Samples Collected

M8 (May 1983)

Aglaophamus circinata
Diastylis quadrispinosa
Tubificoides n. sp. A
Erichthonius fasciatus
Arctica islandica
Protodorvillea gaspeensis
Levinsenia gracilis
Diastylis sculpta
Eudorella pusilla
Rhepoxynius hudsoni

M9 (July 1983)

Erichthonius fasciatus
Tubificoides n. sp. A
Aglaophamus circinata
Arctica islandica
Protodorvillea gaspeensis
Polygordius sp. A
Levinsenia gracilis
Phyllodoce mucosa
Ninoe nigripes
Diastylis quadrispinosa

M10 (November 1983)

Polygordius sp. A
Tubificoides n. sp. A
Arctica islandica
Levinsenia gracilis
Nucula delphinodonta
Protodorvillea gaspeensis
Aglaophamus circinata
Rhepoxynius hudsoni
Ampelisca agassizi
Ninoe nigripes

M11 (February 1984)

Arctica islandica
Aglaophamus circinata
Spiophanes bombyx
Tubificoides n. sp. A
Nucula delphinodonta
Protodorvillea gaspeensis
Rhepoxynius hudsoni
Polygordius sp. A
Levinsenia gracilis
Ampelisca agassizi

M12 (June 1984)

Erichthonius fasciatus
Aglaophamus circinata
Diastylis quadrispinosa
Tubificoides n. sp. A
Artica islandica
Spiophanes bombyx
Protodorvillea gaspeensis
Levinsenia gracilis
Polygordius sp. A
Bivalvia sp. F

TABLE E-15. DOMINANT SPECIES AT REGIONAL STATION 12 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Polygordius sp. A	Ophelina cylindricaudata	Uniciola irrorata
Ophelina cylindricaudata	Unciola irrorata	Protodorvillea gaspeensis
Protodorvillea gaspeensis	Exogone hebes	Exogone hebes
Exogone hebes	Protodorvillea gaspeensis	Polygordius sp. A
Notomastus latericeus	Polygordius sp. A	Exogone naidena
Paraonis n. sp. A	Notomastus latericeus	Chone duneri
Unciola irrorata	Aglaophamus circinata	Paraonis n. sp. A
Aricidea (Allia) suecica	Paraonis n. sp. A	Ophelina cylindricaudata
Aricidea (Acmira) catherinae	Exogone naidena	Aricidea (Allia) suecica
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Polygordius sp. A	Polygordius sp. A	Exogone hebes
Ophelina cylindricaudata	Exogone hebes	Polygordius sp. A
Protodorvillea gaspeensis	Protodorvillea gaspeensis	Protodorvillea gaspeensis
Notomastus latericeus	Ophelina cylindricaudata	Uniciola irrorata
Paraonis n. sp. A	Unciola irrorata	Paraonis n. sp. A
Exogone hebes	Notomastus latericeus	Ophelina cylindricaudata
Aricidea (Allia) suecica	Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Chone duneri	Chone duneri
Unciola irrorata	Paraonis n. sp. A	Thyasira sp. B
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Ampelisca agassizi		Ampelisca agassizi
Polygordius sp. A		Exogone hebes
Ophelina cylindricaudata		Protodorvillea gaspeensis
Protodorvillea gaspeensis		Paraonis n. sp. A
Notomastus latericeus	No Samples Collected	Polygordius sp. A
Exogone hebes		Chone duneri
Thyasira sp. D		Ophelina cylindricaudata
Aricidea (Acmira) catherinae		Aricidea (Acmira) catherinae
Chone duneri		Thyasira sp. B
Paraonis n. sp. A		Unciola irrorata
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Ampelisca agassizi	Ampelisca agassizi	Ampelisca agassizi
Polygordius sp. A	Unciola irrorata	Chone duneri
Ophelina cylindricaudata	Protodorvillea gaspeensis	Protodorvillea gaspeensis
Protodorvillea gaspeensis	Chone duneri	Exogone hebes
Exogone hebes	Ophelina cylindricaudata	Polygordius sp. A
Exogone naidena	Polygordius sp. A	Aricidea (Acmira) catherinae
Notomastus latericeus	Notomastus latericeus	Notomastus latericeus
Aglaophamus circinata	Exogone hebes	Thyasira sp. B
Paraonis n. sp. A	Thyasira sp. B	Paraonis n. sp. A
Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae	Euchone hancocki

TABLE E-16. DOMINANT SPECIES AT REGIONAL STATION 13 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Levinsenia gracilis	Cossura longocirrata	Cossura longocirrata
Tubificoides n. sp. A	Euchone incolor	Levinsenia gracilis
Cossura longocirrata	Levinsenia gracilis	Tubificoides n. sp. A
Euchone incolor	Tubificoides n. sp. A	Ninoe nigripes
Ninoe nigripes	Ninoe nigripes	Ampelisca agassizi
Mediomastus fragilis	Aricidea (Acmira) catherinae	Euchone incolor
Ampelisca agassizi	Ampelisca agassizi	Aricidea (Acmira) catherinae
Aricidea (Allia) suecica	Mediomastus fragilis	Lumbrineris impatiens
Aricidea (Acmira) catherinae	Nephtys incisa	Photis pollex
Nucula proxima	Lumbrineris impatiens	Aricidea (Allia) suecica
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Cossura longocirrata	Cossura longocirrata	Cossura longocirrata
Tubificoides n. sp. A	Levinsenia gracilis	Levinsenia gracilis
Levinsenia gracilis	Tubificoides n. sp. A	Tubificoides n. sp. A
Euchone incolor	Ampelisca agassizi	Ampelisca agassizi
Ninoe nigripes	Ninoe nigripes	Euchone incolor
Ampelisca agassizi	Euchone incolor	Ninoe nigripes
Mediomastus fragilis	Aricidea (Acmira) catherinae	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Mediomastus fragilis	Aricidea (Allia) suecica
Aricidea (Allia) suecica	Lumbrineris impatiens	Lumbrineris impatiens
Nucula proxima	Aricidea (Allia) suecica	Metopella angusta
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Cossura longocirrata	Cossura longocirrata	Cossura longicirrata
Levinsenia gracilis	Levinsenia gracilis	Levinsenia gracilis
Tubificoides n. sp. A	Ampelisca agassizi	Tubificoides n. sp. A
Ampelisca agassizi	Tubificoides n. sp. A	Ampelisca agassizi
Euchone incolor	Ninoe nigripes	Euchone incolor
Ninoe nigripes	Aricidea (Acmira) catherinae	Ninoe nigripes
Aricidea (Acmira) catherinae	Euchone incolor	Aricidea (Acmira) catherinae
Mediomastus fragilis	Lumbrineris impatiens	Terebellides stroemi
Lumbrineris impatiens	Nephtys incisa	Aricidea (Allia) suecica
Aricidea (Allia) suecica	Mediomastus fragilis	Nucula proxima
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Tubificoides n. sp. A	Cossura longocirrata	Levinsenia gracilis
Euchone incolor	Levinsenia gracilis	Cossura longocirrata
Levinsenia gracilis	Tubificoides n. sp. A	Euchone incolor
Cossura longocirrata	Ampelisca agassizi	Ampelisca agassizi
Ampelisca agassizi	Ninoe nigripes	Tubificoides n. sp. A
Ninoe nigripes	Aricidea (Acmira) catherinae	Ninoe nigripes
Mediomastus fragilis	Euchone incolor	Aricidea (Acmira) catherinae
Aricidea (Acmira) catherinae	Lumbrineris impatiens	Stenopleustes inermis
Microphthalmus listensis	Aricidea (Allia) suecica	Terebellides stroemi
Aricidea (Allia) suecica	Mediomastus fragilis	Lumbrineris impatiens

TABLE E-17. DOMINANT SPECIES AT REGIONAL STATION 13A FROM JULY 1982 TO JUNE 1984 (M5-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
No Samples Collected	Ampelisca agassizi Aricidea (Allia) suecica Exogone verugera Cossura longocirrata Tharyx annulosus Tubificoides n. sp. A Tharyx acutus Euchone incolor Terebellides stroemi Protodorvillea gaspeensis	Ampelisca agassizi Aricidea (Allia) suecica Cossura longocirrata Myriochele sp. A Tharyx annulosus Tubificoides n. sp. A Exogone verugera Protodorvillea gaspeensis Terebellides stroemi Harpinia propinqua
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
No Samples Collected	Ampelisca agassizi Aricidea (Allia) suecica Tharyx annulosus Cossura longocirrata Tubificoides n. sp. A Exogone verugera Myriochele sp. A Protodorvillea gaspeensis Terebellides stroemi Tharyx acutus	Ampelisca agassizi Aricidea (Allia) suecica Myriochele sp. A Cossura longocirrata Tharyx annulosus Tubificoides n. sp. A Maldanidae sp. G Protodorvillea gaspeensis Exogone verugera Terebellides stroemi
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
No Samples Collected	No Samples Collected	Ampelisca agassizi Aricidea (Allia) suecica Cossura longocirrata Tubificoides n. sp. A Spiochaetopterus oculatus Myriochele sp. A Tharyx annulosus Protodorvillea gaspeensis Maldanidae sp. G Exogone verugera
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
No Samples Collected	Ampelisca agassizi Aricidea (Allia) suecica Cossura longocirrata Tubificoides n. sp. A Tharyx annulosus Myriochele sp. A Exogone verugera Protodorvillea gaspeensis Terebellides stroemi Harpinia propinqua	Ampelisca agassizi Aricides (Allia) suecica Cossura longocirrata Spiochaetopterus oculatus Myriochele sp. A Tharyx annulosus Maldanidae sp. G Tubificoides n. sp. A Protodorvillea gaspeensis Erichthorius fasciatus

TABLE E-18. DOMINANT SPECIES AT REGIONAL STATION 14A FROM JULY 1982 TO JUNE 1984 (M5-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
No Samples Collected	Tharyx annulosus Euchone incolor Nuculana messanensis Ophiura robusta Terebellides stroemi Protodorvillea gaspeensis Lumbrineris sp. C Paradoneis lyra Spiophanes kroeyeri Cossura longocirrata	Tharyx annulosus Euchone incolor Ophiura robusta Protodorvillea gaspeensis Nuculana messanensis Ophelina abranchiata Paradoneis lyra Cossura longocirrata Nemertea sp. A Alvania pelagica
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
No Samples Collected	Tharyx annulosus Euchone incolor Protodorvillea gaspeensis Paradoneis lyra Terebellides stroemi Ophiura robusta Cossura longocirrata Nuculana messanensis Lumbrineris sp. C Paramphinome jeffreysii	No Samples Collected
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
No Samples Collected	Tharyx annulosus Euchone incolor Terebellides stroemi Nuculana messanensis Protodorvillea gaspeensis Cossura longocirrata Thyasira sp. C Ophelina abranchiata Anobothrus gracilis Barantolla sp. A	No Samples Collected
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
No Samples Collected	Tharyx annulosus Euchone incolor Protodorvillea gaspeensis Paradoneis lyra Terebellides stroemi Nuculana messanensis Lumbrineris sp. C Barantolla sp. A Anobothrus gracilis Nemertea sp. A	No Samples Collected

TABLE E-19. DOMINANT SPECIES AT REGIONAL STATION 15 FROM JULY 1981 TO MAY 1982 (M1-M4).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Exogone hebes Phallodrilus biprostatus Polygordius sp. A Grania n. sp. A Nemertea sp. B Streptosyllis websteri Parapionosyllis longicirrata Syllides benedicti Schistomeringos caeca Caulleriella n. sp. B	No Samples Collected	No Samples Collected
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Exogone hebes Spisula solidissima Polygordius sp. A Tanaissus lilljeborgi Streptosyllis websteri Phallodrilus biprostatus Grania n. sp. A Nemertea sp. C Parapionosyllis longicirrata Grania n. sp. C	No Samples Collected	No Samples Collected
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Spisula solidissima Tanaissus lilljeborgi Exogone hebes Polygordius sp. A Nemertea sp. E Protohaustorius wigleyi Aricidea (Acmira) catherinae Caulleriella n. sp. B Syllides benedicti Phallodrilus biprostatus	No Samples Collected	No Samples Collected
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Echinarachnius parma Exogone hebes Spisula solidissima Tanaissus lilljeborgi Polygordius sp. A Scolelepis squamata Nemertea sp. E Phallodrilus biprostatus Grania n. sp. A Exogone verugera	No Samples Collected	No Samples Collected

TABLE E-20. DOMINANT SPECIES AT REGIONAL STATION 16 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)

Paradoneis n. sp. A
Phallodrilus biprostatus
Notomastus latericeus
Tharyx nr. monilaris
Protodorvillea gaspeensis
Polycirrus sp. A
Tharyx marioni
Aricidea (Allia) n. sp. A
Exogone hebes
Ampelisca agassizi

M2 (November 1981)

Paradoneis n. sp. A
Notomastus latericeus
Polycirrus sp. A
Tharyx nr. monilaris
Phallodrilus biprostatus
Tharyx marioni
Polygordius sp. A
Ampelisca agassizi
Aricidea (Acmira) catherinae
Wireniidae spp.

M3 (February 1982)

Paradoneis n. sp. A
Polycirrus sp. A
Notomastus latericeus
Tharyx nr. monilaris
Phallodrilus biprostatus
Enteropneusta sp. E
Ampelisca agassizi
Protodorvillea gaspeensis
Tharyx marioni
Tharyx annulosus

M4 (May 1982)

Paradoneis n. sp. A
Polycirrus sp. A
Phallodrilus biprostatus
Notomastus latericeus
Protodorvillea gaspeensis
Chone duneri
Tharyx annulosus
Tharyx marioni
Polygordius sp. A
Enteropneusta sp. E

M5 (July 1982)

Chone duneri
Notomastus latericeus
Paradoneis n. sp. A
Polycirrus sp. F
Enteropneusta sp. E
Ampelisca agassizi
Wireniidae spp.
Lumbrineris latreilli
Tharyx marioni
Chaetozone n. sp. B

M6 (November 1982)

Chone duneri
Paradoneis n. sp. A
Notomastus latericeus
Polycirrus sp. F
Tharyx annulosus
Aricidea (Acmira) neosuecica
Tharyx marioni
Enteropneusta sp. E
Lumbrineris latreilli
Chaetozone n. sp. B

M7 (February 1983)

Paradoneis n. sp. A
Chone duneri
Notomastus latericeus
Enteropneusta sp. E
Ampelisca agassizi
Phallodrilus biprostatus
Schistomeringos caeca
Tharyx annulosus
Wireniidae spp.
Polycirrus sp. F

M8 (May 1983)

Paradoneis n. sp. A
Chone duneri
Notomastus latericeus
Enteropneusta sp. E
Ampelisca agassizi
Tharyx marioni
Tharyx annulosus
Lumbrineris latreilli
Chaetozone n. sp. B
Schistomeringos caeca

M9 (July 1983)

Chone duneri
Paradoneis n. sp. A
Notomastus latericeus
Aricidea (Acmira) neosuecica
Chaetozone n. sp. B
Polycirrus sp. F
Ampelisca agassizi
Lumbrineris latreilli
Tharyx marioni
Protodorvillea gaspeensis

M10 (November 1983)

Chone duneri
Paradoneis n. sp. A
Notomastus latericeus
Enteropneusta sp. E
Tharyx marioni
Chaetozone n. sp. B
Tharyx annulosus
Aricidea (Acmira) neosuecica
Schistomeringos caeca
Lumbrineris latreilli

M11 (February 1984)

Chone duneri
Paradoneis n. sp. A
Tharyx marioni
Notomastus latericeus
Cirrophorus furcatus
Enteropneusta sp. E
Aricidea (Acmira) neosuecica
Ampelisca agassizi
Chaetozone n. sp. B
Schistomeringos caeca

M12 (June 1984)

Paradoneis n. sp. A
Tharyx annulosus
Tharyx marioni
Ampelisca agassizi
Notomastus latericeus
Chone duneri
Enteropneusta sp. E
Aricidea (Acmira) neosuecica
Protodorvillea gaspeensis
Thyasira sp. B

TABLE E-21. DOMINANT SPECIES AT REGIONAL STATION 17 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Paradoneis n. sp. A	Paradoneis n. sp. A	
Phallodrilus biprostatus	Chone duneri	
Tharyx nr. monilaris	Tharyx marioni	
Notomastus latericeus	Notomastus latericeus	
Euchone incolor	Polycirrus sp. F	Samples Archived
Aricidea (Acmira) catherinae	Wireniidae spp.	
Aricidea (Allia) n. sp. A	Phallodrilus biprostatus	
Polycirrus sp. A	Aricidea (Acmira) neosuecica	
Schistomeringos caeca	Enteropneusta sp. E	
Adelodrilus inopinatus	Chaetozone n. sp. B	
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Paradoneis n. sp. A	Paradoneis n. sp. A	
Polycirrus sp. A	Chone duneri	
Phallodrilus biprostatus	Notomastus latericeus	
Notomastus latericeus	Polycirrus sp. F	
Tharyx nr. monilaris	Tharyx marioni	Samples Archived
Aricidea (Allia) n. sp. A	Wireniidae spp.	
Polygordius sp. A	Scoloplos acmeceps	
Enteropneusta sp. E	Tharyx nr. monilaris	
Sphaerosyllis cf. brevifrons	Phallodrilus biprostatus	
Chone infundibuliformis	Aricidea (Acmira) neosuecica	
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Paradoneis n. sp. A	Paradoneis n. sp. A	
Tharyx nr. monilaris	Notomastus latericeus	
Phallodrilus biprostatus	Chone duneri	
Notomastus latericeus	Tharyx marioni	
Polycirrus sp. A	Tubificoides n. sp. A	Samples Archived
Polygordius sp. A	Ampelisca agassizi	
Tharyx marioni	Enteropneusta sp. E	
Tharyx annulosus	Polycirrus sp. F	
Protodorvillea gaspeensis	Thyasira sp. B	
Aricidea (Acmira) neosuecica	Aricidea (Acmira) neosuecica	
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Paradoneis n. sp. A	Paradoneis n. sp. A	
Notomastus latericeus	Notomastus latericeus	
Polycirrus sp. A	Chone duneri	
Tharyx marioni	Tharyx marioni	
Phallodrilus biprostatus	Polycirrus sp. F	Samples Archived
Tharyx nr. monilaris	Enteropneusta sp. E	
Polygordius sp. A	Aricidea (Acmira) neosuecica	
Tharyx annulosus	Spio cf. armata	
Enteropneusta sp. E	Wireniidae spp.	
Polydora blakei	Schistomeringos caeca	

TABLE E-22. DOMINANT SPECIES AT REGIONAL STATION 18 FROM JULY 1981 TO JUNE 1984 (M1-M12).

M1 (July 1981)	M5 (July 1982)	M9 (July 1983)
Ampelisca agassizi	Ampelisca agassizi	
Paraonis n. sp. A	Chaetozone n. sp. B	
Thyasira sp. B	Lumbrineris latreilli	
Protodorvillea gaspeensis	Wireniidae spp.	
Wireniidae spp.	Thyasira sp. B	Samples Archived
Prionospio cirrifera	Unciola irrorata	
Aglaophamus circinata	Notomastus latericeus	
Notomastus latericeus	Aricidea (Acmira) catherinae	
Tharyx annulosus	Tharyx annulosus	
Aricidea (Acmira) neosuecica	Aricidea (Acmira) neosuecica	
M2 (November 1981)	**M6 (November 1982)**	**M10 (November 1983)**
Ampelisca agassizi	Ampelisca agassizi	
Tharyx annulosus	Chaetozone n. sp. B	
Paraonis n. sp. A	Lumbrineris latreilli	
Aricidea (Acmira) neosuecica	Thyasira sp. B	
Aricidea (Acmira) catherinae	Enteropneusta sp. E	Samples Archived
Tharyx nr. monilaris	Notomastus latericeus	
Notomastus latericeus	Aricidea (Acmira) catherinae	
Enteropneusta sp. E	Tharyx annulosus	
Lumbrineris latreilli	Wireniidae spp.	
Polygordius sp. A	Aricidea (Acmira) neosuecica	
M3 (February 1982)	**M7 (February 1983)**	**M11 (February 1984)**
Ampelisca agassizi	Ampelisca agassizi	
Thyasira sp. B	Notomastus latericeus	
Tharyx annulosus	Tharyx annulosus	
Aricidea (Acmira) catherinae	Chaetozone n. sp. B	
Paraonis n. sp. A	Thyasira sp. B	Samples Archived
Notomastus latericeus	Enteropneusta sp. E	
Lumbrineris latreilli	Aricidea (Acmira) catherinae	
Aricidea (Acmira) neosuecica	Aricidea (Acmira) neosuecica	
Prionospio cirrifera	Lumbrineris latreilli	
Polygordius sp. A	Wireniidae spp.	
M4 (May 1982)	**M8 (May 1983)**	**M12 (June 1984)**
Ampelisca agassizi	Ampelisca agassizi	
Tharyx annulosus	Notomastus latericeus	
Chaetozone n. sp. B	Chaetozone n. sp. B	
Lumbrineris latreilli	Aricidea (Acmira) neosuecica	
Tharyx nr. monilaris	Tharyx annulosus	Samples Archived
Notomastus latericeus	Aricidea (Acmira) catherinae	
Aricidea (Acmira) catherinae	Lumbrineris latreilli	
Prionospio cirrifera	Thyasira sp. B	
Paraonis n. sp. A	Tharyx marioni	
Aricidea (Acmira) neosuecica	Enteropneusta sp. E	

APPENDIX F

TABLE F-1. COMMUNITY PARAMETERS FOR REGIONAL STATIONS CALCULATED FOR EACH CRUISE, WITH ALL REPLICATES COMBINED.

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
1	M1	1875	73	22.5	58.3	3.96	0.640
	M2	1172	48	21.7	46.1	3.87	0.693
	M3	1821	49	14.5	37.5	3.24	0.576
	M4	1017	49	20.0	48.7	3.80	0.677
	M5	1120	50	20.7	48.4	3.90	0.690
	M6	2010	45	15.6	36.0	3.33	0.606
	M7	1548	51	18.6	43.5	3.73	0.658
	M8	1459	53	17.7	45.5	3.05	0.532
	M9	3016	64	17.8	42.0	3.27	0.545
	M10	1394	53	19.4	46.9	3.56	0.621
	M11	1192	55	22.0	51.8	3.76	0.650
	M12	2470	52	20.0	42.3	3.80	0.667
2	M1	2160	94	30.4	74.7	4.67	0.713
	M2	2155	88	28.8	68.4	4.36	0.676
	M3	2766	86	25.8	61.1	4.00	0.623
	M4	2849	78	23.3	56.7	3.87	0.616
	M5	3807	94	29.2	65.1	4.48	0.684
	M6	4319	91	27.6	64.3	4.22	0.648
	M7	4543	89	25.3	57.0	4.02	0.621
	M8	4122	87	26.8	58.0	4.19	0.650
	M9	4629	95	22.4	63.5	3.27	0.498
	M10	5735	89	27.6	65.4	4.00	0.617
	M11	2200	85	29.4	67.7	4.52	0.706
	M12	1781	82	33.4	73.0	4.76	0.750
3	M1	2129	139	40.9	111.3	5.51	0.774
	M2	1212	104	38.9	98.6	5.14	0.768
	M3	2169	117	39.1	95.9	5.32	0.774
	M4	2256	127	37.9	99.9	5.31	0.760
	M5	3191	147	39.2	105.6	5.35	0.743
	M6	2881	113	32.3	87.2	4.57	0.670
	M7	2456	116	34.1	90.1	4.74	0.691
	M8	2511	123	38.4	95.0	5.33	0.768
	M9	2845	129	37.2	94.8	5.22	0.745
	M10	2398	123	38.0	94.5	5.20	0.749
	M11	1876	108	36.4	88.1	5.11	0.756
	M12	1527	105	36.4	93.5	5.04	0.750

TABLE F-1. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
4	M1	2901	43	11.0	29.3	2.61	0.480
	M2	2914	41	12.4	27.9	2.72	0.507
	M3	2978	43	10.3	26.9	2.42	0.446
	M4	2354	32	8.8	22.3	2.20	0.440
	M5	3911	52	11.9	32.1	2.46	0.432
	M6	7024	42	6.7	16.6	1.11	0.206
	M7			NO SAMPLE			
	M8	3489	45	10.4	27.9	2.00	0.364
	M9	3967	46	11.3	28.1	1.94	0.351
	M10	3031	43	10.8	28.1	2.09	0.386
	M11	1769	34	10.7	26.8	2.40	0.471
	M12	1847	51	15.7	40.5	3.07	0.541
5	M1	5299	90	25.6	58.3	4.33	0.667
	M2	4140	81	27.8	57.3	4.56	0.719
	M3	4807	83	27.1	58.2	4.41	0.692
	M4	8015	90	26.5	54.7	4.39	0.676
	M5	9135	110	27.9	64.5	4.50	0.664
	M6	5812	92	26.5	59.5	4.26	0.653
	M7	7727	96	25.1	57.4	4.06	0.617
	M8	7291	109	27.6	63.8	4.48	0.661
	M9	7319	122	30.0	72.4	4.65	0.671
	M10	6314	109	29.1	68.9	4.51	0.666
	M11	7904	110	23.6	62.3	3.78	0.557
	M12	7755	120	27.0	67.7	4.36	0.632
6	M1	3916	134	30.8	87.2	4.10	0.581
	M2	4354	128	28.8	78.8	4.30	0.610
	M3	4396	114	25.4	74.8	3.91	0.572
	M4	4022	115	30.4	76.9	4.53	0.662
	M5	2868	135	36.1	93.0	4.98	0.703
	M6	4904	122	28.2	78.9	4.11	0.593
	M7	3284	110	30.1	78.3	4.47	0.660
	M8	2482	113	34.2	86.1	4.80	0.703
	M9	2889	128	35.9	93.8	4.94	0.705
	M10	2545	123	36.6	92.0	5.09	0.733
	M11	3204	116	31.2	81.2	4.40	0.642
	M12	2393	112	33.1	86.4	4.72	0.694

TABLE F-1. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
7	M1	1420	130	44.4	116.9	5.74	0.818
	M2	2492	122	37.6	90.0	5.29	0.764
	M3	2301	117	36.1	88.6	5.25	0.764
	M4	2465	133	38.9	97.9	5.37	0.761
7A	M5	2493	88	28.5	66.9	4.46	0.691
	M6	3134	111	30.3	76.1	4.73	0.697
	M7	2937	102	29.3	74.4	4.61	0.692
	M8	1813	87	29.3	71.8	4.59	0.713
	M9	4492	125	32.3	78.6	4.91	0.705
	M10	3930	118	31.1	77.6	4.81	0.699
	M11	4045	106	31.3	71.8	4.83	0.718
	M12	3317	109	31.1	75.9	4.83	0.714
8	M1	1824	96	29.3	78.9	3.95	0.600
	M2	1953	101	29.8	80.3	4.27	0.641
	M3	2454	104	26.1	73.8	3.90	0.582
	M4	1388	87	28.1	75.7	3.97	0.617
	M5	2388	111	29.8	81.0	4.47	0.658
	M6	1575	87	29.2	75.3	4.29	0.666
	M7	2052	110	30.7	86.2	4.22	0.623
	M8	1987	103	28.8	80.3	4.07	0.609
	M9	2169	112	33.7	89.6	4.58	0.673
	M10	1630	105	32.2	90.5	4.44	0.662
	M11	2291	107	30.9	82.7	4.32	0.640
	M12	1735	101	33.1	87.6	4.58	0.688
9	M1	2952	133	31.1	88.8	3.92	0.555
	M2	2438	101	28.9	78.5	4.09	0.614
	M3	2834	107	28.7	77.5	3.97	0.589
	M4	3131	110	28.1	77.9	3.75	0.553
	M5	2832	111	32.3	80.9	4.23	0.622
	M6	2393	96	32.1	76.2	4.51	0.685
	M7			NO SAMPLE			
	M8	2180	116	34.2	89.3	4.62	0.674
	M9	2914	114	34.1	84.3	4.79	0.700
	M10	2593	116	35.8	88.1	5.04	0.735
	M11	2644	100	32.4	76.1	4.71	0.709
	M12	3106	107	34.4	78.8	4.83	0.716

TABLE F-1. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
10	M1	1275	53	19.8	49.0	3.58	0.625
	M2	4868	48	10.1	27.7	1.58	0.284
	M3	1735	64	18.2	52.2	3.33	0.556
	M4	798	47	20.4	*	3.68	0.662
	M5	1728	63	24.1	53.4	3.93	0.658
	M6	14041	55	6.5	21.2	0.72	0.124
	M7	6129	54	9.6	29.5	1.15	0.199
	M8	6829	67	8.7	29.3	1.13	0.186
	M9	4261	61	16.2	42.5	2.43	0.410
	M10	6191	66	11.0	34.3	1.33	0.219
	M11	815	49	21.4	*	3.66	0.652
	M12	2362	61	21.4	48.7	3.47	0.584
11	M1	1451	88	28.8	76.0	4.58	0.709
	M2	1133	54	20.6	51.5	3.45	0.599
	M3	967	66	25.0	*	4.25	0.703
	M4	2144	59	20.1	46.3	3.90	0.664
	M5	2661	79	25.2	57.4	4.26	0.675
	M6	1642	59	19.0	49.7	2.74	0.466
	M7			NO SAMPLE			
	M8	1026	75	27.5	74.3	4.49	0.721
	M9	1848	79	25.2	63.5	4.13	0.656
	M10	1411	63	21.2	56.6	3.89	0.651
	M11	902	60	23.4	*	4.05	0.685
	M12	2381	85	22.2	60.9	3.44	0.537
12	M1	5748	140	23.7	77.0	3.19	0.448
	M2	4360	121	21.9	69.6	3.05	0.441
	M3	4864	122	25.4	75.6	3.40	0.490
	M4	4931	121	26.8	76.0	3.72	0.538
	M5	5269	142	30.9	89.3	4.20	0.587
	M6	4785	139	28.7	81.4	3.96	0.556
	M7			NO SAMPLE			
	M8	6061	126	20.7	67.3	2.52	0.361
	M9	6252	119	22.4	67.1	2.86	0.416
	M10	5998	136	26.6	77.8	3.38	0.477
	M11	5899	128	24.3	75.8	3.11	0.444
	M12	3670	114	26.4	75.5	3.56	0.521

TABLE F-1. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
13	M1	6450	105	18.7	53.2	3.56	0.531
	M2	8840	91	17.6	47.8	3.48	0.535
	M3	10067	97	19.6	51.4	3.77	0.571
	M4	3268	77	21.2	55.3	3.72	0.593
	M5	11961	98	19.0	48.6	3.69	0.558
	M6	10267	100	18.6	48.5	3.64	0.548
	M7	9600	87	18.0	44.3	3.58	0.556
	M8	8882	103	19.8	53.8	3.68	0.551
	M9	8800	109	20.9	56.3	3.81	0.562
	M10	11746	97	18.6	46.7	3.61	0.546
	M11	10071	100	19.0	50.2	3.58	0.539
	M12	9467	104	21.5	56.3	3.88	0.579
13A	M5	5082	87	21.9	52.2	3.86	0.599
	M6	7295	84	20.0	47.7	3.51	0.548
	M7			NO SAMPLE			
	M8	5361	93	23.2	57.5	3.84	0.587
	M9	5709	106	25.7	63.2	4.05	0.602
	M10	5091	84	20.1	52.4	3.50	0.547
	M11	5500	90	21.9	56.4	3.70	0.570
	M12	9467	104	21.5	56.3	3.88	0.579
14A	M5	1994	109	33.9	88.1	4.81	0.710
	M6	1809	98	30.8	79.9	4.45	0.673
	M7	1150	89	33.3	85.0	4.55	0.703
	M8	1618	96	29.9	82.7	4.32	0.657
	M9	1473	102	32.3	89.5	4.68	0.701
15	M1	2857	62	17.6	41.0	2.69	0.453
	M2	1254	68	24.9	62.9	3.77	0.620
	M3	469	38	21.4	*	3.54	0.675
	M4	949	51	19.4	*	3.25	0.573
16	M1	948	113	41.4	*	5.41	0.793
	M2	851	95	37.3	*	5.18	0.788
	M3	1448	93	33.4	81.4	4.88	0.747
	M4	1257	95	35.8	87.9	5.12	0.780
	M5	2178	126	38.4	98.5	5.36	0.768
	M6	2043	119	37.0	95.1	5.11	0.741
	M7	1819	120	37.7	96.6	5.31	0.769
	M8	2057	110	35.2	86.7	5.08	0.750
	M9	2151	129	40.1	102.7	5.44	0.776
	M10	2529	114	34.2	85.8	4.91	0.719
	M11	2042	119	36.4	95.6	5.22	0.757
	M12	2304	119	37.3	92.0	5.30	0.769

TABLE F-1. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
17	M1	338	76	42.5	*	5.23	0.837
	M2	681	84	37.6	*	5.08	0.795
	M3	1054	96	37.4	94.4	5.21	0.790
	M4	771	97	39.7	*	5.26	0.797
	M5	1700	131	40.9	108.4	5.46	0.776
	M6	1397	103	39.0	93.0	5.22	0.780
	M7	1322	93	33.9	84.4	5.08	0.776
	M8	1954	117	39.7	96.2	5.32	0.774
18	M1	1906	122	35.2	95.5	4.67	0.674
	M2	1138	91	34.5	86.6	4.66	0.715
	M3	2749	113	29.5	78.3	3.93	0.576
	M4	1182	87	31.3	81.9	4.12	0.639
	M5	2668	113	31.1	79.8	4.29	0.629
	M6	1921	98	31.9	80.8	4.45	0.673
	M7	2048	84	27.1	67.8	3.70	0.580
	M8	2085	100	31.2	78.7	4.30	0.648

* Sample size is not large enough for calculation of this parameter.

TABLE F-2. COMMUNITY PARAMETERS FOR SITE-SPECIFIC STATIONS CALCULATED FOR EACH CRUISE, WITH ALL REPLICATES COMBINED.

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
5-1	M1	5299	90	25.6	58.3	4.33	0.667
	M2	4140	81	27.8	57.3	4.56	0.719
	M3	4807	83	27.1	58.2	4.41	0.692
	M4	8015	90	26.5	54.7	4.39	0.676
	M5	9135	110	27.9	64.5	4.50	0.664
	M6	5812	92	26.5	59.5	4.26	0.653
	M7	7727	96	25.1	57.4	4.06	0.617
	M8	7291	109	27.6	63.8	4.48	0.661
	M9	7319	122	30.0	72.4	4.65	0.671
	M10	6314	109	29.1	68.9	4.51	0.666
	M11	7904	110	23.6	62.3	3.78	0.557
	M12	7755	120	27.0	67.7	4.36	0.632
5-2	M1	5467	89	25.7	56.9	4.39	0.678
	M2	3318	80	27.9	58.1	4.62	0.730
	M3	4775	84	26.6	55.1	4.43	0.693
	M4	6655	96	27.1	56.4	4.43	0.673
	M5	8030	104	26.8	61.3	4.42	0.660
	M6	8091	94	25.2	58.0	4.14	0.632
	M7		NO SAMPLE				
	M8	6910	100	27.3	62.0	4.44	0.668
5-3	M1	4520	90	24.8	57.1	4.26	0.657
	M2	4345	83	25.5	54.0	4.40	0.690
	M3	4387	86	25.7	56.6	4.37	0.680
	M4	3767	77	27.6	55.7	4.52	0.722
	M5	7745	101	26.0	60.6	4.31	0.647
	M6	6425	102	29.4	63.4	4.60	0.689
	M7		NO SAMPLE				
	M8	5317	102	28.5	65.2	4.56	0.683
5-4	M1	5011	85	25.1	55.4	4.32	0.673
	M2	3710	82	26.9	57.2	4.47	0.703
	M3	4487	91	26.3	59.3	4.37	0.672
	M4	4716	91	27.2	57.6	4.43	0.681
	M5	7588	107	28.0	62.3	4.55	0.676
	M6	6024	103	30.0	70.1	4.65	0.695
	M7		NO SAMPLE				
	M8	5947	97	27.0	59.9	4.43	0.671

TABLE F-2. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
5-5	M1	5710	82	22.7	52.8	4.02	0.632
	M2	3490	93	27.1	63.3	4.40	0.673
	M3	3128	88	26.2	62.5	4.32	0.668
	M4	4156	79	28.2	53.7	4.56	0.723
	M5	5259	94	28.2	62.3	4.51	0.688
	M6	4090	100	28.0	68.0	4.43	0.667
	M7		NO SAMPLE				
	M8	4702	105	29.5	67.6	4.63	0.689
5-6	M1	5941	96	25.6	57.6	4.29	0.651
	M2	3404	73	25.9	51.2	4.39	0.710
	M3	4556	80	25.5	53.6	4.30	0.680
	M4	5550	91	26.6	56.0	4.43	0.680
	M5	8548	100	26.0	57.3	4.35	0.655
	M6	5950	99	28.0	63.5	4.52	0.687
	M7		NO SAMPLE				
	M8	4145	91	28.0	63.9	4.54	0.698
5-8	M1	6030	94	24.7	54.7	4.31	0.658
	M2	4561	79	25.6	53.0	4.39	0.700
	M3	5381	95	26.5	56.9	4.42	0.672
	M4	9105	94	26.7	56.6	4.41	0.673
	M5	10272	112	26.0	62.2	4.39	0.645
	M6	7525	109	25.6	61.2	4.07	0.601
	M7		NO SAMPLE				
	M8	8671	114	26.4	61.2	4.37	0.639
5-9	M1	8069	92	23.4	54.1	4.13	0.633
	M2	5372	79	25.1	53.0	4.37	0.693
	M3	5207	84	26.6	54.5	4.42	0.692
	M4	7318	98	26.0	55.0	4.38	0.662
	M5	8672	107	27.7	63.4	4.54	0.673
	M6	8126	104	28.1	64.6	4.56	0.681
	M7		NO SAMPLE				
	M8	6879	110	26.5	65.0	4.40	0.649
5-10	M1	6091	91	25.3	55.2	4.35	0.668
	M2	6714	87	25.9	55.7	4.32	0.671
	M3	3110	74	27.5	55.9	4.48	0.722
	M4	7608	95	27.5	57.3	4.49	0.683
	M5	9774	111	27.5	61.9	4.52	0.665
	M6	9135	125	27.1	66.5	4.36	0.627
	M7		NO SAMPLE				
	M8	6654	101	26.2	60.8	4.38	0.658

TABLE F-2. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
5-11	M1	5155	87	24.8	57.1	4.30	0.667
	M2	3838	81	26.8	55.6	4.47	0.705
	M3	2174	86	26.4	68.0	4.32	0.672
	M4	5921	87	26.6	56.4	4.36	0.677
	M5	7600	103	26.7	62.9	4.39	0.657
	M6	5934	105	29.3	70.0	4.53	0.674
	M7		NO SAMPLE				
	M8	4531	96	28.3	63.8	4.49	0.682
5-12	M1	5015	105	23.6	63.3	4.10	0.611
	M2	2780	75	26.3	55.0	4.45	0.715
	M3	2237	87	27.3	67.3	4.38	0.680
	M4	3412	95	30.1	67.3	4.69	0.714
	M5	6543	118	29.0	71.2	4.59	0.666
	M6	3498	116	27.2	76.0	4.26	0.621
	M7		NO SAMPLE				
	M8	2806	97	29.9	74.5	4.65	0.704
5-14	M1	6220	91	25.5	56.7	4.31	0.662
	M2	4123	73	26.4	52.1	4.41	0.712
	M3	3493	82	26.0	57.2	4.40	0.692
	M4	5000	81	25.3	53.4	4.28	0.675
	M5	9430	102	26.5	57.5	4.43	0.664
	M6	7206	98	26.5	58.4	4.39	0.664
	M7		NO SAMPLE				
	M8	6005	90	26.4	55.5	4.44	0.683
5-16	M1	8982	91	23.0	51.7	4.13	0.635
	M2	4161	88	27.9	59.9	4.57	0.708
	M3	5370	91	24.4	54.4	4.24	0.651
	M4	7623	89	26.2	55.4	4.36	0.674
	M5	10911	108	27.6	60.9	4.53	0.670
	M6	5728	102	26.4	62.5	4.36	0.653
	M7		NO SAMPLE				
	M8	9422	106	23.2	56.8	4.11	0.610

TABLE F-2. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
5-18	M1	7681	100	25.3	56.4	4.32	0.650
	M2	5018	90	26.7	58.7	4.43	0.683
	M3	4451	93	27.6	60.8	4.44	0.680
	M4	5886	88	26.4	56.0	4.37	0.677
	M5	6486	110	28.7	66.6	4.58	0.675
	M6	6528	115	29.5	67.8	4.64	0.677
	M7	6372	97	26.5	59.9	4.31	0.653
	M8	7858	113	25.8	62.9	4.27	0.628
	M9	7403	100	28.4	67.0	4.43	0.666
	M10	6580	116	29.0	71.6	4.55	0.664
	M11	3902	104	59.1	72.2	4.67	0.698
	M12	6638	115	26.3	68.4	4.19	0.612
5-20	M1	5311	87	26.3	55.6	4.45	0.691
	M2	3026	75	26.0	55.3	4.49	0.720
	M3	1407	75	26.9	68.3	4.34	0.700
	M4	3011	87	28.4	64.9	4.59	0.713
	M5	4760	103	30.4	69.2	4.72	0.705
	M6	2120	90	27.1	71.2	4.32	0.665
	M7		NO SAMPLE				
	M8	2955	107	29.0	75.7	4.64	0.688
5-22	M1	6322	91	24.6	55.8	4.21	0.647
	M2	4327	75	24.1	52.7	4.25	0.682
	M3	2988	82	28.2	59.3	4.60	0.724
	M4	5673	82	24.6	52.4	4.21	0.662
	M5	9857	102	28.0	61.4	4.55	0.683
	M6	7195	108	27.6	61.8	4.56	0.675
	M7		NO SAMPLE				
	M8	7333	100	27.5	59.5	4.55	0.684
5-25	M1	4270	116	26.0	71.5	4.33	0.632
	M2	3348	92	23.2	62.7	3.92	0.600
	M3	1621	97	27.1	80.0	4.27	0.647
	M4	4032	94	27.6	63.4	4.52	0.690
	M5	6596	126	28.9	70.7	4.54	0.651
	M6	3561	105	27.8	75.1	4.25	0.634
	M7		NO SAMPLE				
	M8	4869	115	24.7	67.5	4.18	0.611

TABLE F-2. (Continued)

Sta.	Cruise	Total Indiv.	Total Species	Species per 100	Species per 1000	Shannon-Wiener Diversity (H')	Evenness (E)
5-28	M1	4411	73	24.4	50.8	4.26	0.688
	M2	4684	78	23.3	50.9	4.04	0.644
	M3	5635	79	22.9	53.2	3.61	0.573
	M4	6158	79	24.2	53.3	4.21	0.667
	M5	6990	100	26.9	61.4	4.49	0.675
	M6	10064	96	21.2	51.8	3.47	0.527
	M7	4285	79	24.3	50.9	4.30	0.680
	M8	4232	74	25.7	53.6	4.37	0.704
	M9	4930	98	27.7	65.3	4.54	0.686
	M10	4728	95	29.0	66.3	4.65	0.708
	M11	3203	83	28.0	64.3	4.41	0.692
	M12	3307	89	27.3	65.0	4.44	0.686
5-29	M1	2615	143	40.4	106.2	5.41	0.755
	M2	3166	116	28.8	80.5	4.15	0.605
	M3	2924	116	30.5	83.9	4.31	0.629
	M4	4020	129	32.1	81.0	4.84	0.690
	M5	3425	133	35.8	93.0	5.04	0.714
	M6	3721	114	27.6	75.8	3.98	0.582
	M7		NO SAMPLE				
	M8	2860	112	31.4	81.4	4.57	0.672

APPENDIX G

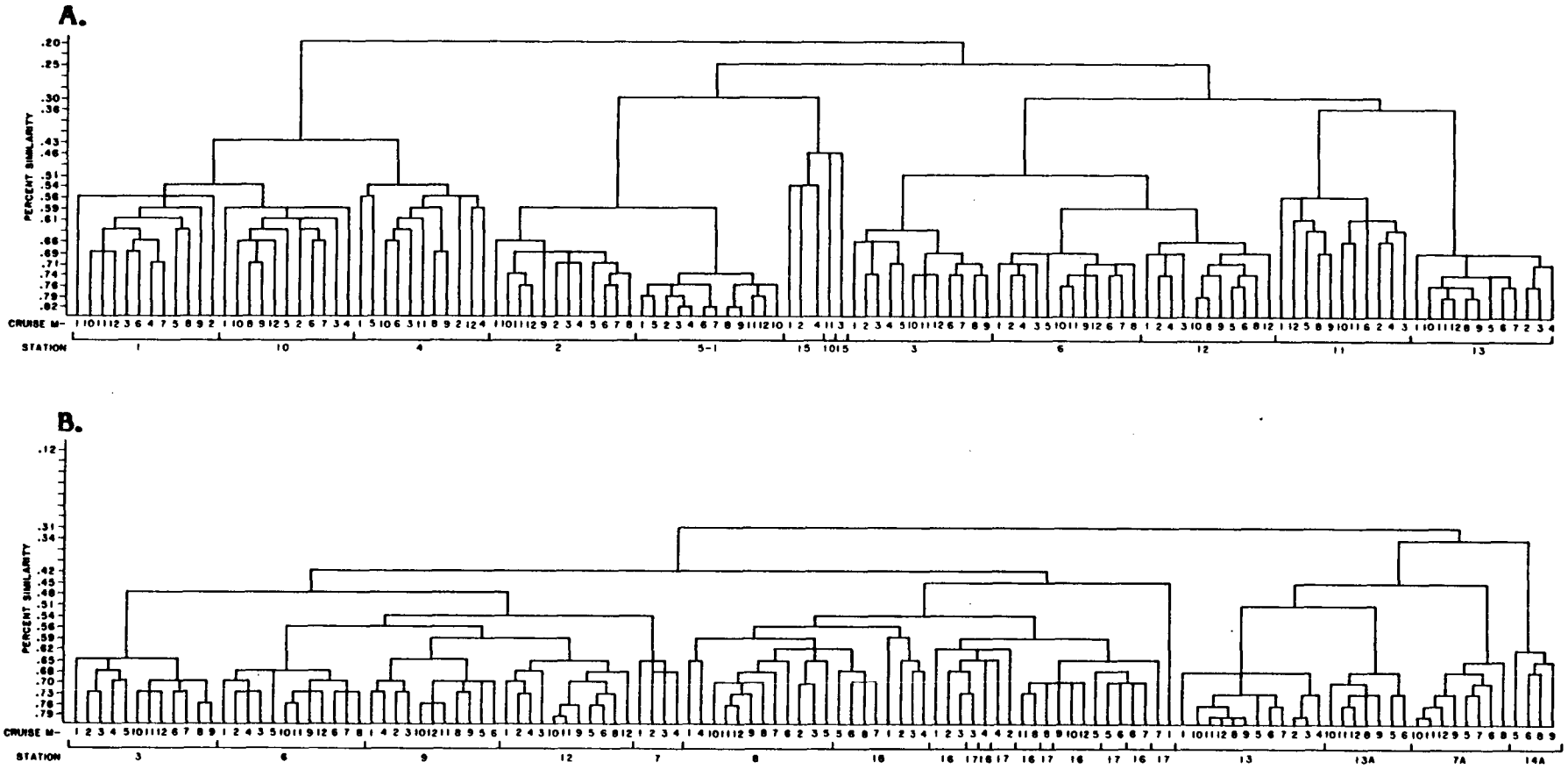

Figure G-1. Summed replicates of samples collected July 1981 through June 1984 (M1-M12) at regional stations clustered by percent similarity and group average sorting.
A. Station Group 1 (shallow and intermediate depth stations)
B. Station Group 2 (intermediate depths and deeper stations).

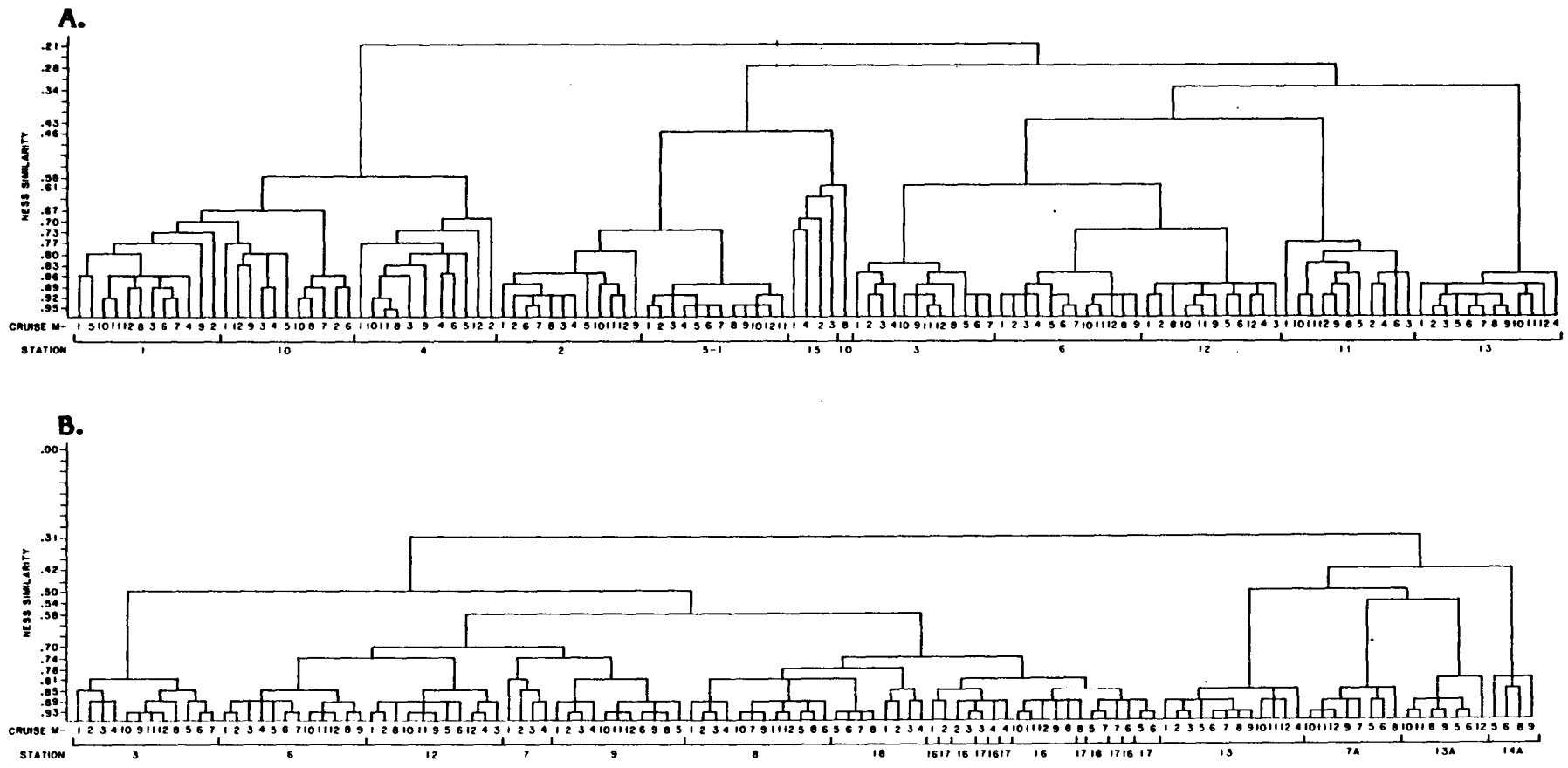

Figure G-2. Summed replicates of samples collected July 1981 through June 1984 (M1-M12) at regional stations clustered by NESS at 200 individuals and group average sorting.
A. Station Group 1 (shallow and intermediate depth stations)
B. Station Group 2 (intermediate depths and deeper stations).

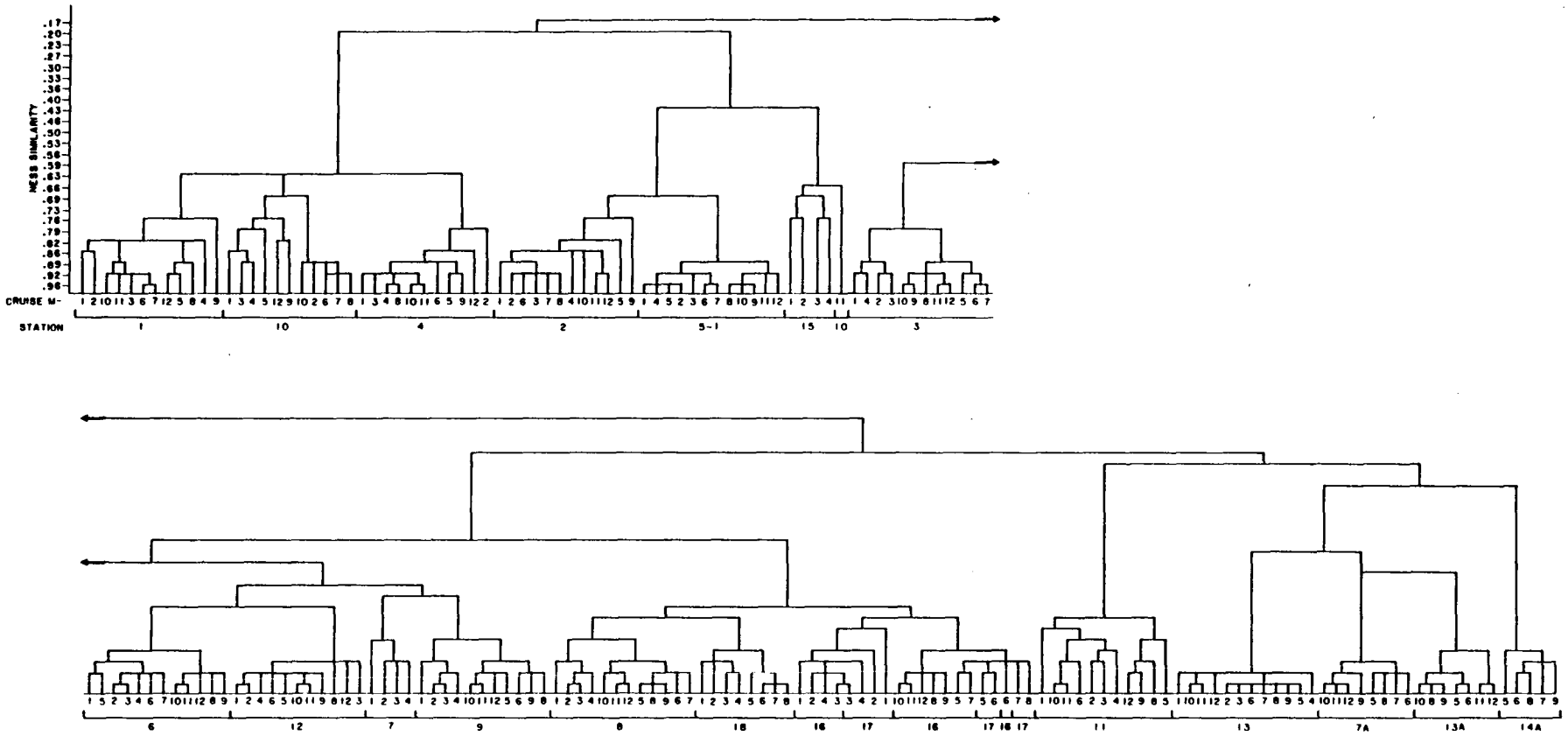

Figure G-3. Summed replicates of samples collected July 1981 through June 1984 (M1-M12) at regional stations clustered by NESS at 50 individuals and group average sorting.

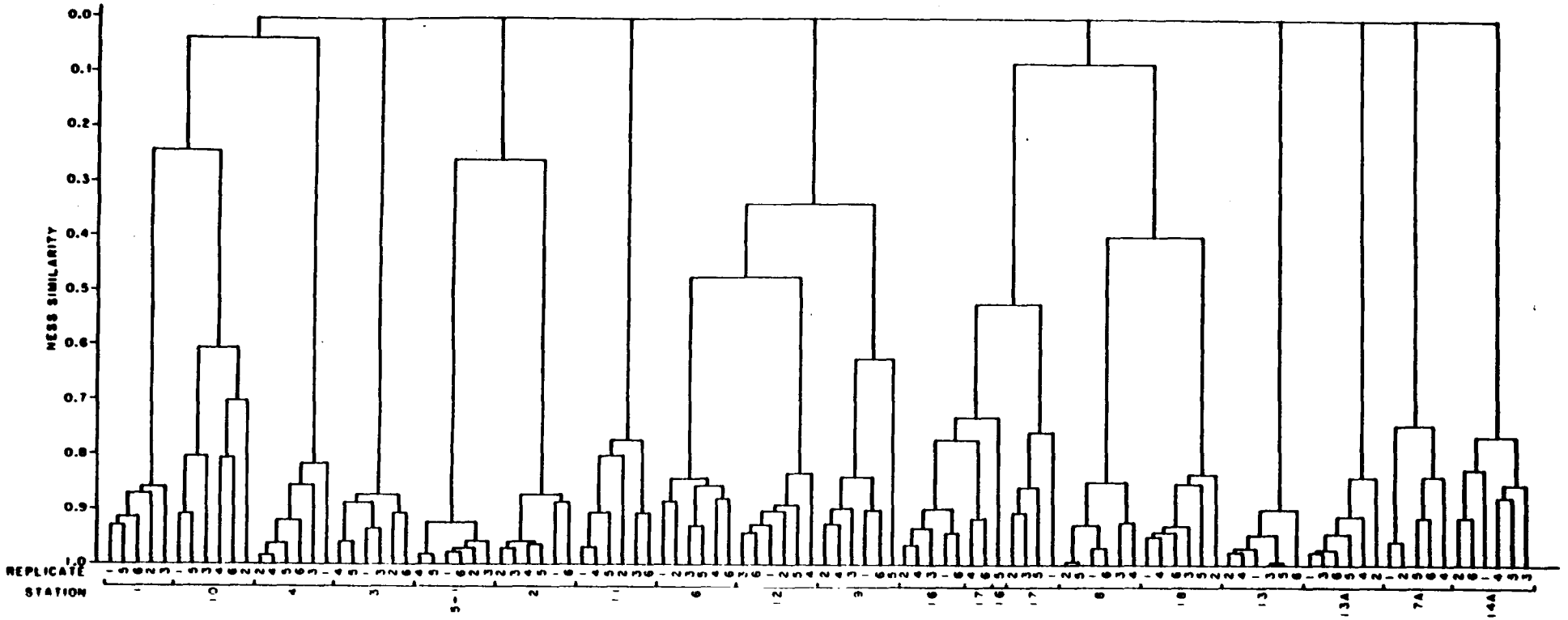

Figure G-4. Replicates of samples collected July 1982 (M5) at site-specific stations clustered by NESS at 50 individuals and flexible sorting.

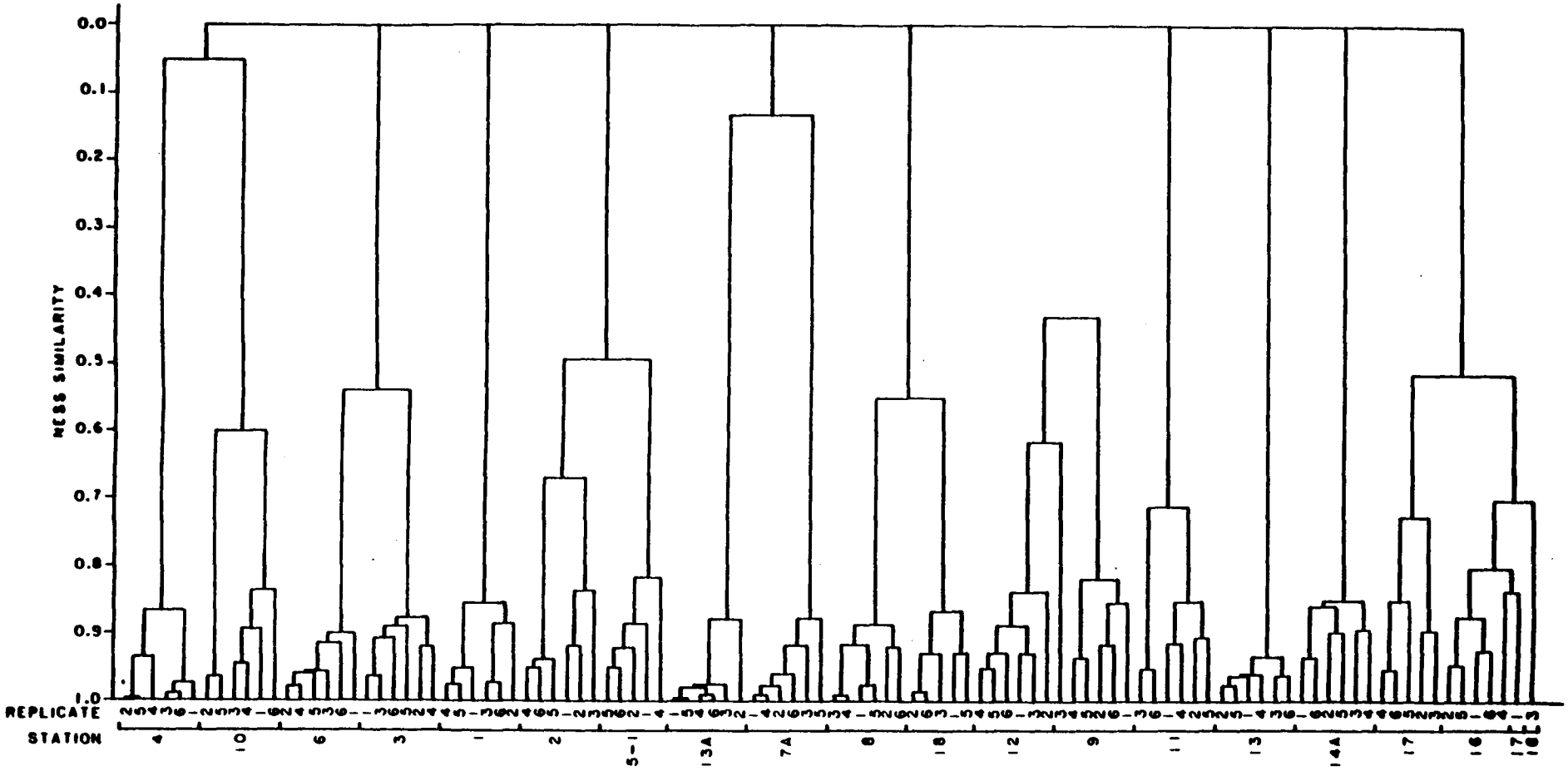

Figure G-5. Replicates of samples collected November 1982 (M6) at site-specific stations clustered by NESS at 50 individuals and flexible sorting.

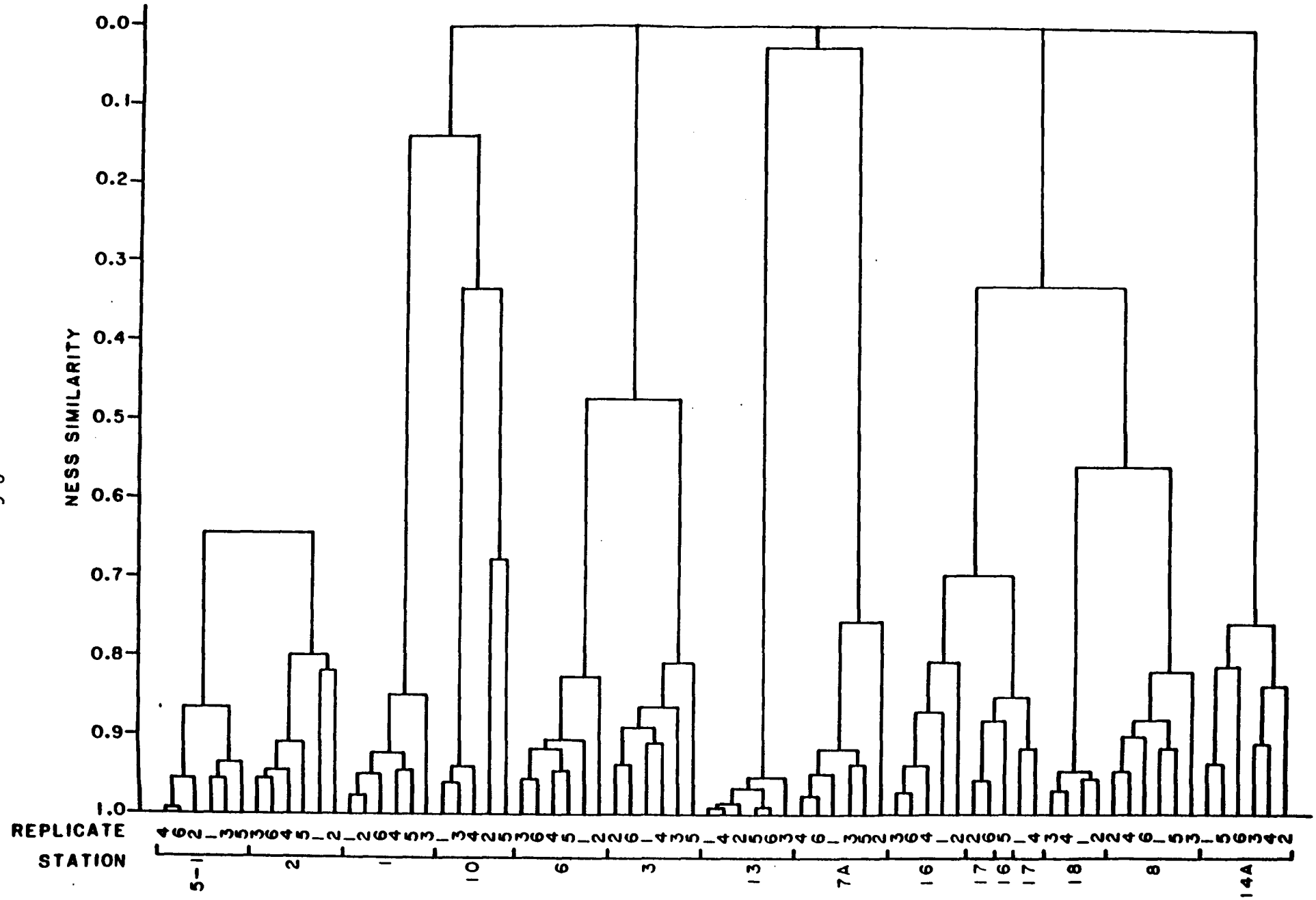

Figure G-6. Replicates of samples collected February 1983 (M7) at site-specific stations clustered by NESS at 50 individuals and flexible sorting.

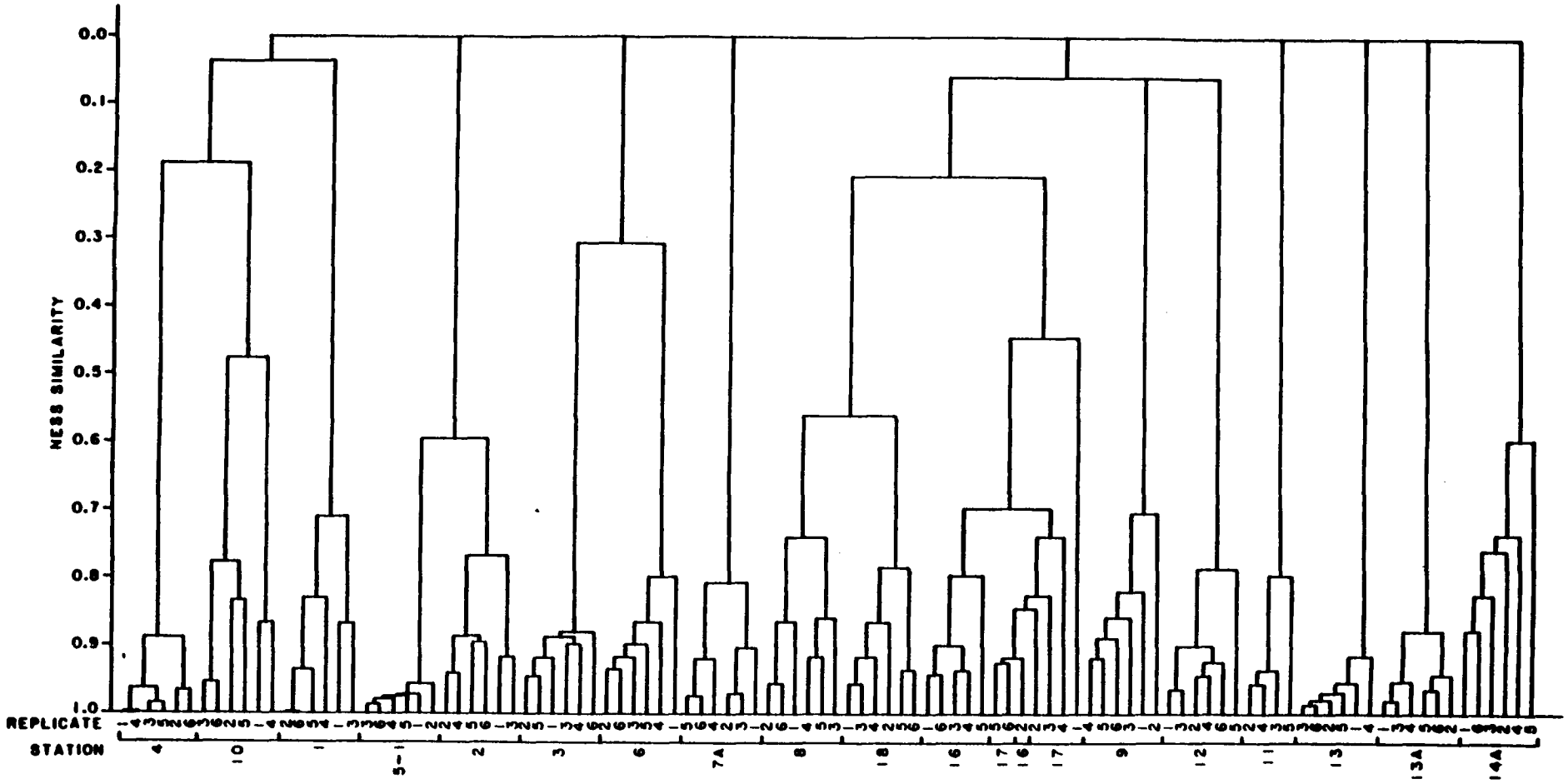

Figure G-7. Replicates of samples collected May 1983 (M8) at site-specific stations clustered by NESS at 50 individuals and flexible sorting.

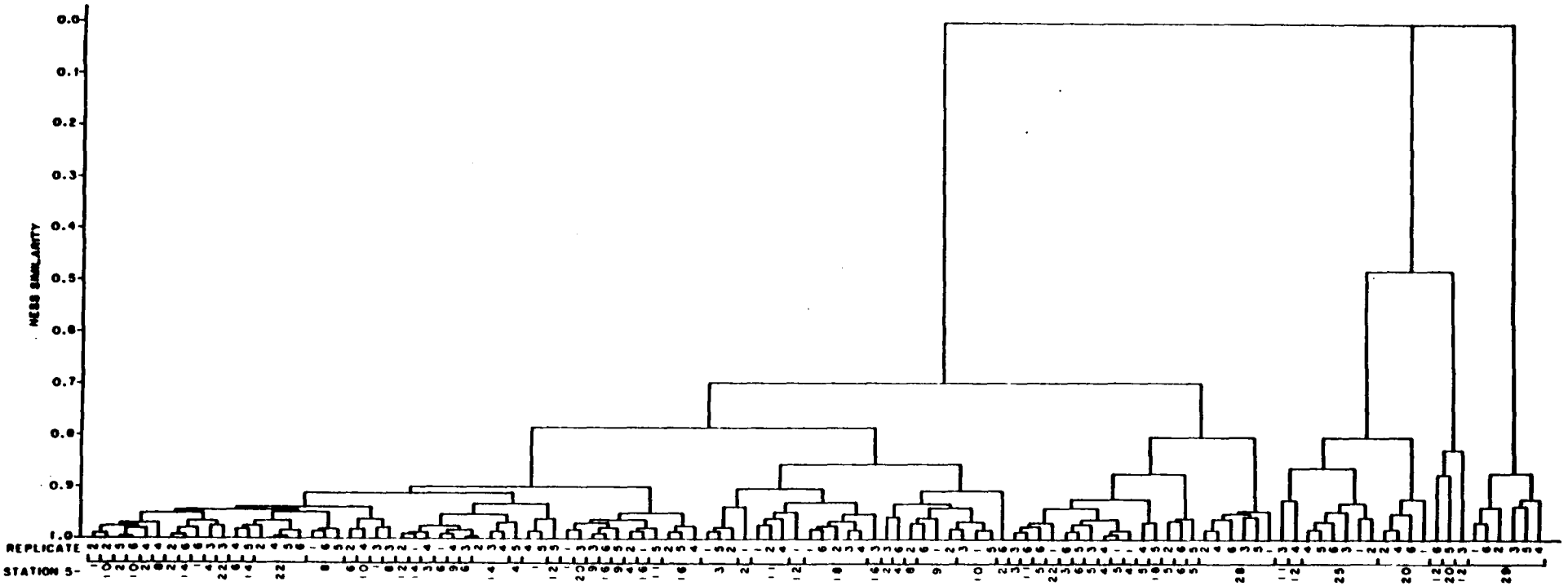

Figure G-8. Replicates of samples collected July 1982 (M5) at regional stations clustered by NESS at 50 individuals and flexible sorting.

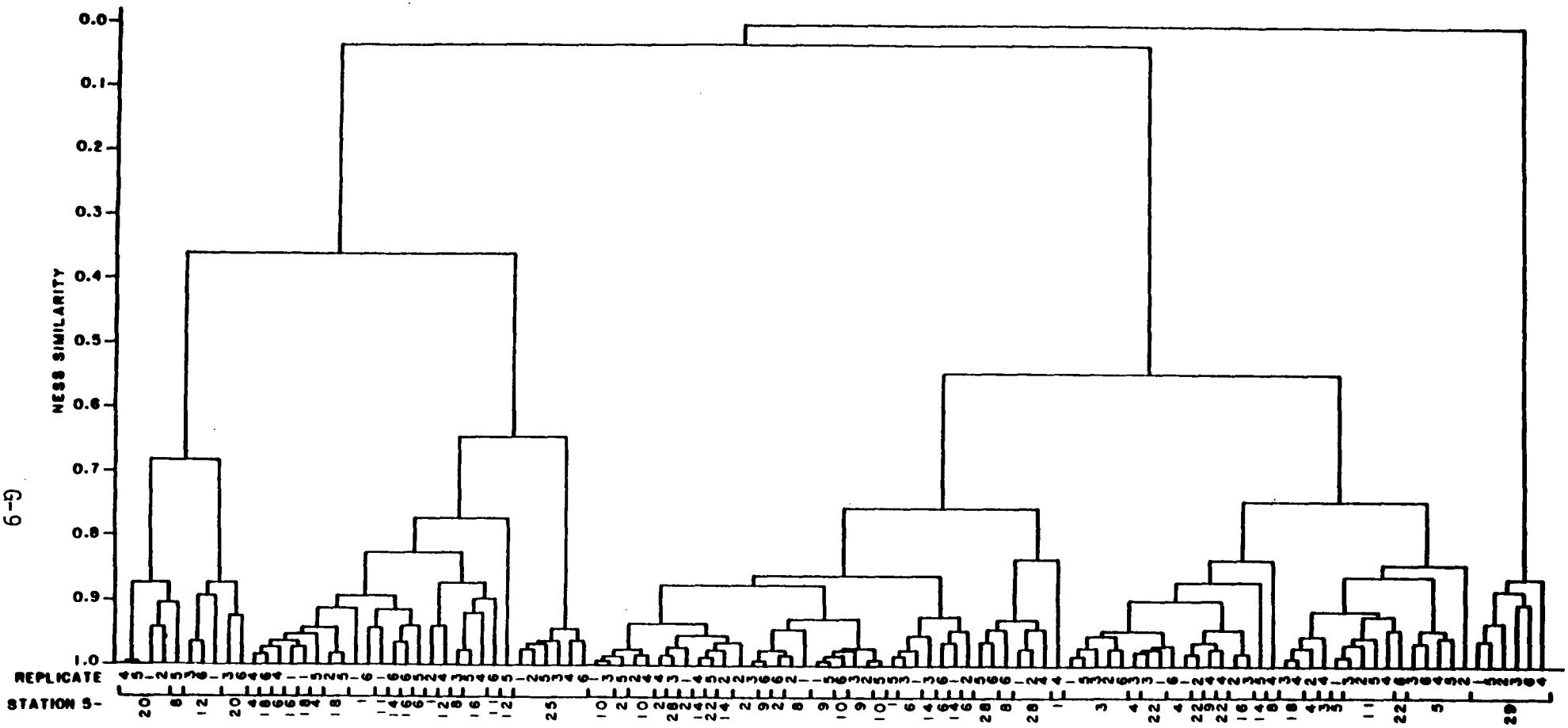

Figure G-9. Replicates of samples collected November 1982 (M6) at regional stations clustered by NESS at 50 individuals and flexible sorting.

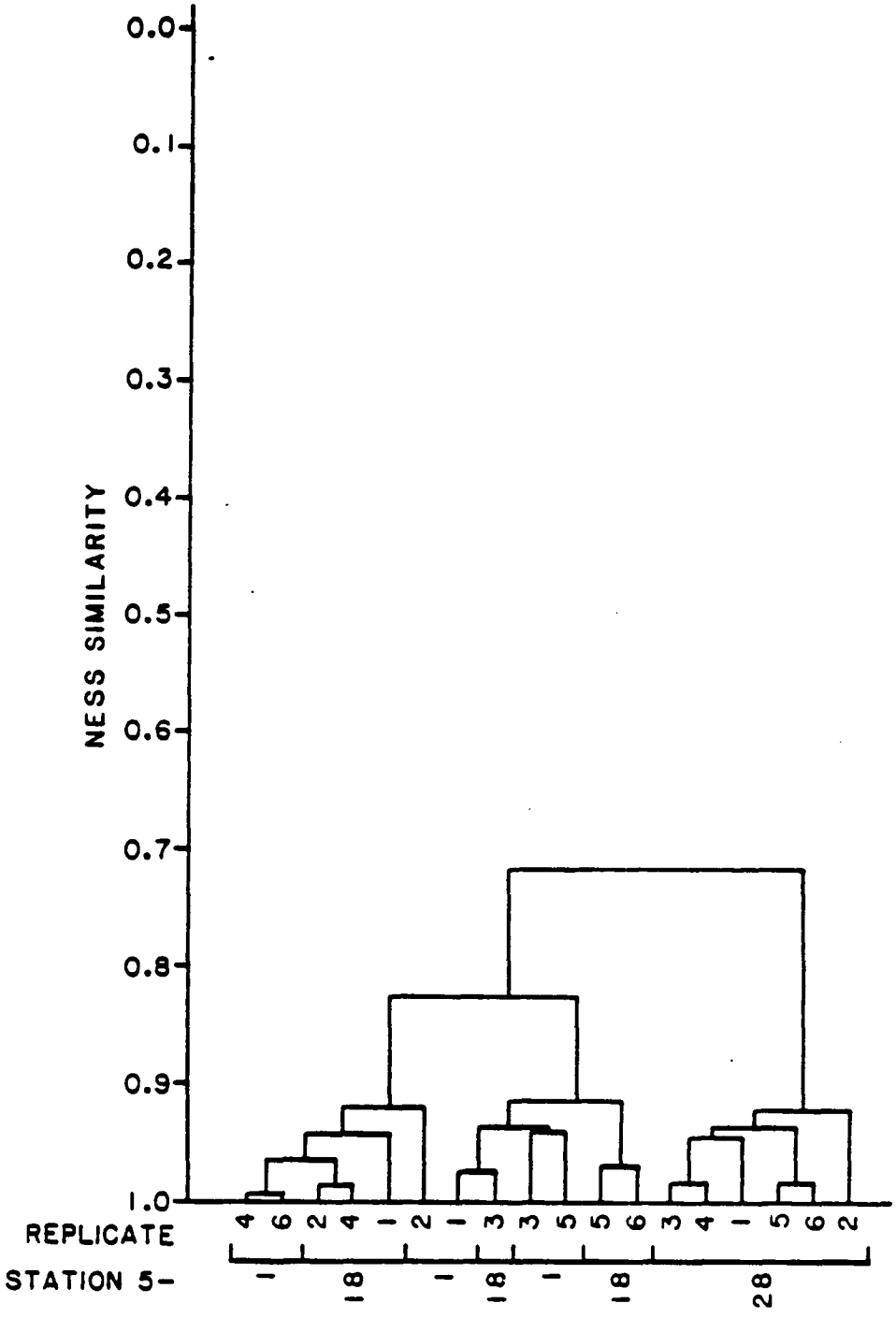

Figure G-10. Replicates of samples collected February 1983 (M7) at regional stations clustered by NESS at 50 individuals and flexible sorting.

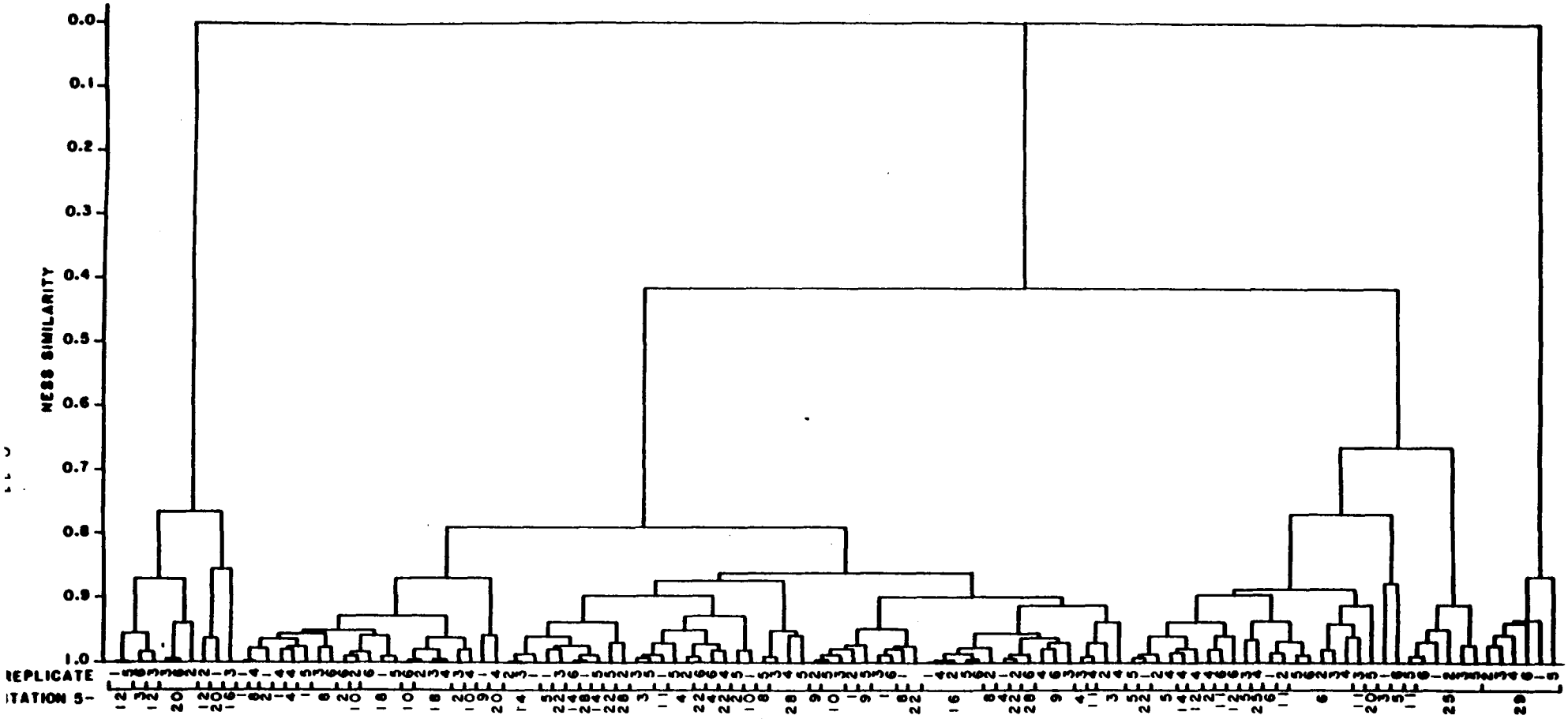

Figure G-11. Replicates of samples collected May 1983 (M8) at regional stations clustered by NESS at 50 individuals and flexible sorting.

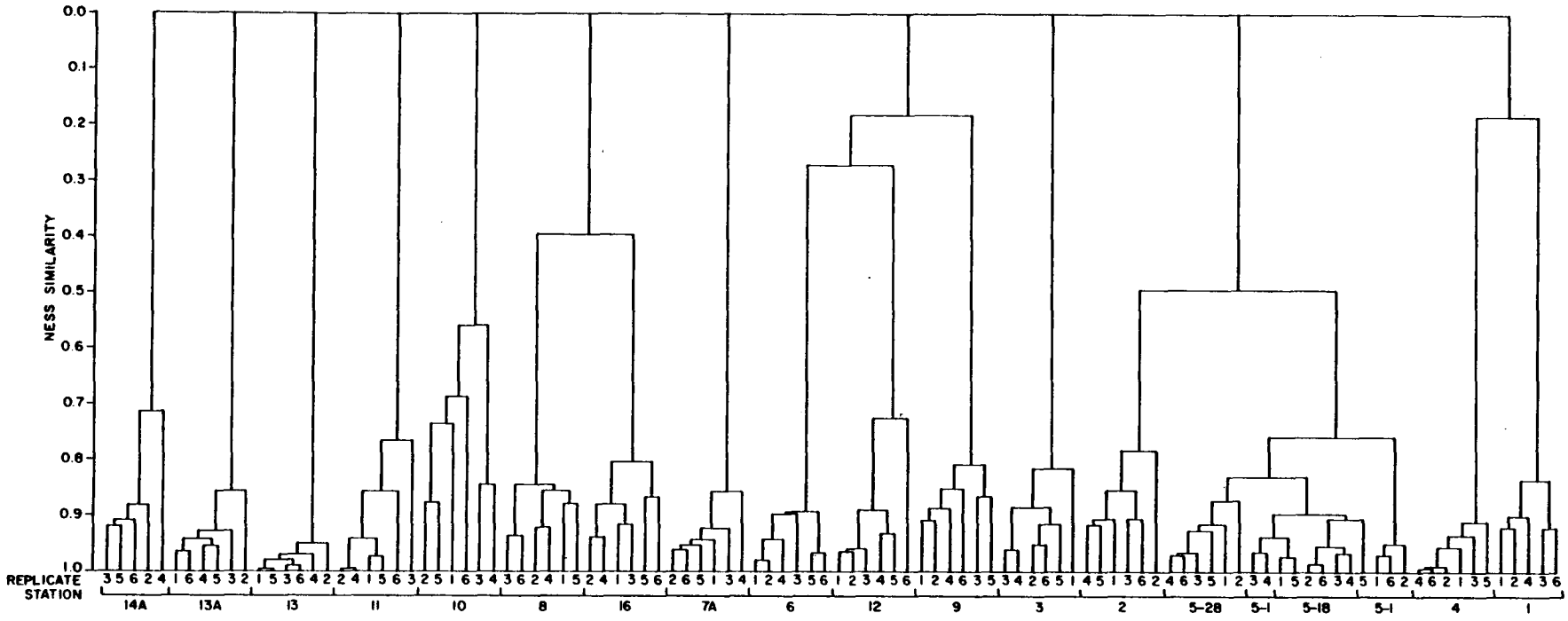

Figure G-12. Replicates of samples collected July 1983 (M9) at regional stations clustered by NESS at 50 individuals and flexible sorting.

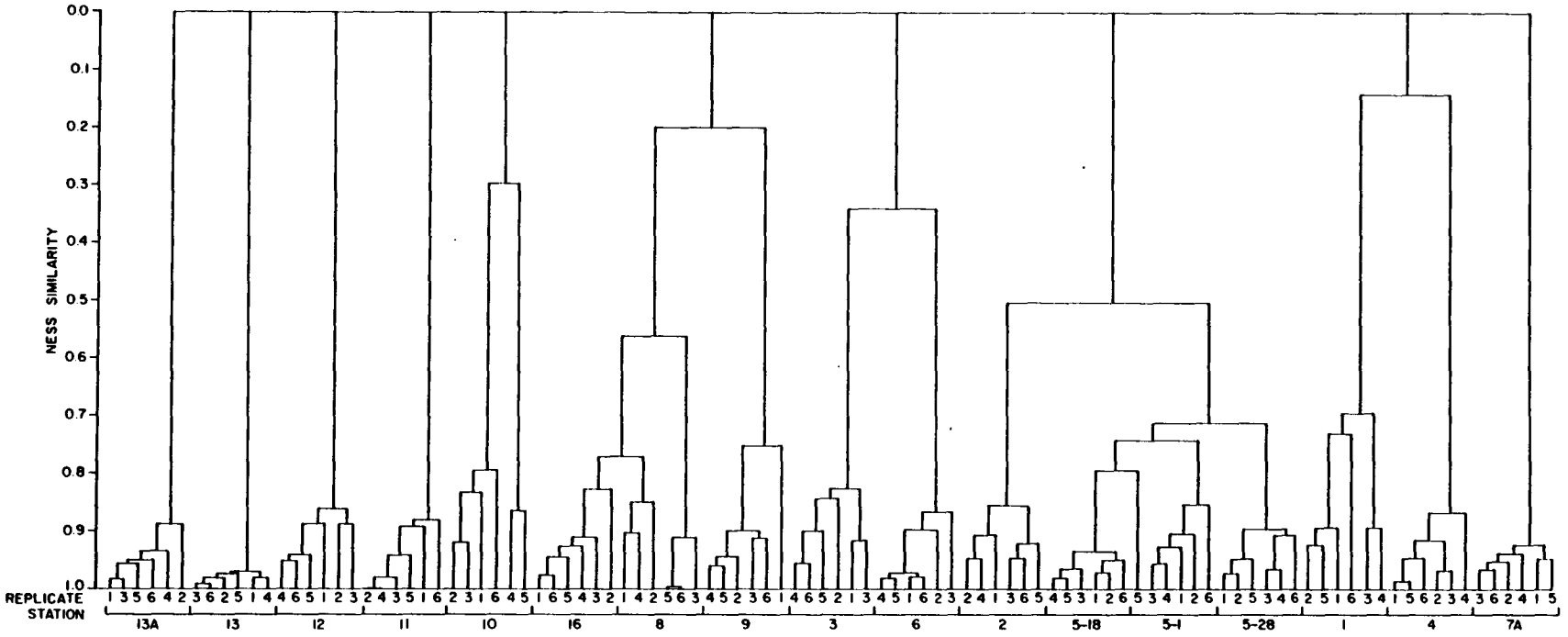

Figure G-13. Replicates of samples collected November 1983 (M10) at regional stations clustered by NESS at 50 individuals and flexible sorting.

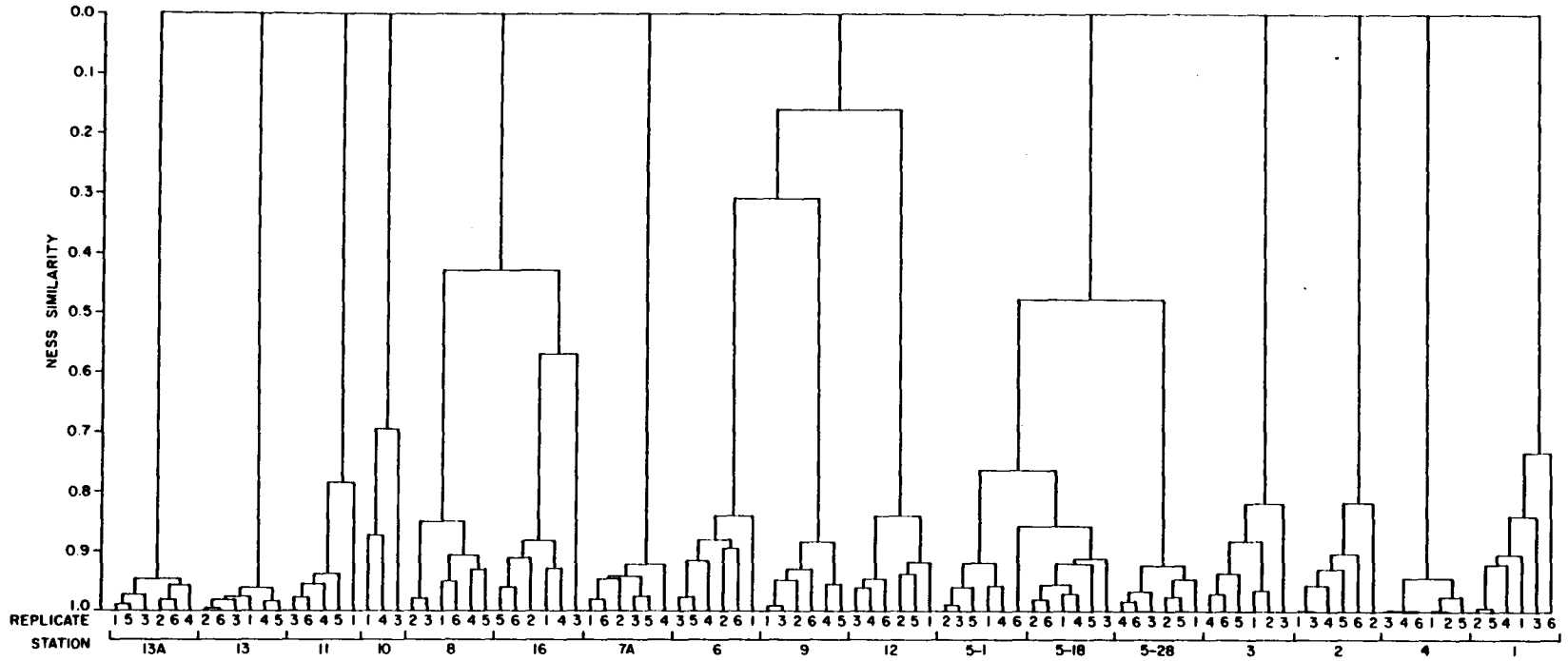

Figure G-14. Replicates of samples collected February 1984 (M11) at regional stations clustered by NESS at 50 individuals and flexible sorting.

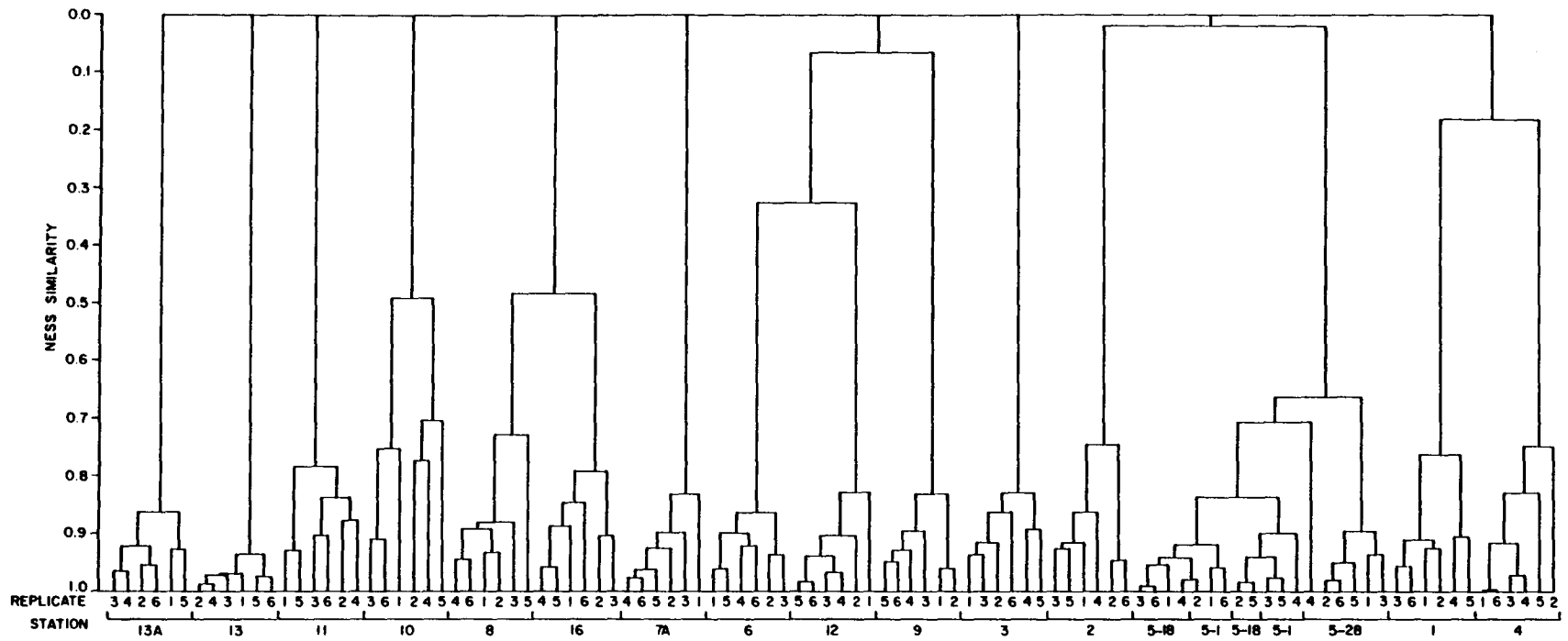

Figure G-15. Replicates of samples collected June 1984 (M12) at regional stations clustered by NESS at 50 individuals and flexible sorting.

APPENDIX H

TABLE H-1. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 1.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	3.8	-	-	-	-	-	0.1	-	-	-
Arthropoda												
Cancer sp.	-	-	0.2	0.4	-	-	-	-	-	-	-	-
Pagurus sp.	0.2	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-	-	-	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	95.0	210.0	95.0	139.0	-	57.2	50.0	-	85.2	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	0.6	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.1	-	-	-	-	-	-	-	0.2	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	0.2	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-2. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 2.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	0.1	0.1	0.1	-	-	0.1	-	-
Cnidaria												
Hydrozoa (colonial)	0.3	0.7	1.2	-	0.2	3.2	3.7	-	-	0.1	-	2.2
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.1	-	-	1.0	0.05	0.1	-	-	-	0.1	-	-
Gastropoda	-	-	-	-	-	0.05	0.2	-	-	0.1		0.2
Arthropoda												
Cancer sp.	-	0.2	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	0.1	-	-	-	0.1	-	1.5	-	-	0.7	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	
Echinarachnius parma	-	0.2	-	-	19.0	-	12.8	-	-	-	-	27.4
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	
Asteroidea	-	0.2	-	-	0.2	0.1	-	-	-	-	-	0.2
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	0.2	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.1	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.05	0.05	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-3. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 3.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	0.4	-	-	0.1	-	0.6	-	0.6	1.0	-	0.6
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	0.1	-	-	-	-	0.05	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	0.4	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.4	0.7	-	0.2	0.5	-	0.05	-	0.2	0.4	-	0.3
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	0.3	-	0.2	-	-	-	-	-	-	-	-
Pagurus sp.	0.1	0.1	-	-	-	-	-	-	0.05	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	1.1	1.3	-	6.2	-	1.4	1.7		1.4	-	-	-
Ctenodiscus sp.	2.8	0.4	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.7	0.2	-	-	2.0	4.1	0.3	-	0.8	1.0	-	0.6
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	0.1	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.1	-	-	-	-	0.1	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.2	-	-	-	1.0	0.2	-	-	-	0.9	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	0.1	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-4. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 4.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera			-	0.2	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	0.8	2.5	-	3.0	7.2	8.9	-	-	-	4.8	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	0.1	-	-	-	-	0.1	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.2	0.2	-	-	0.2	0.1	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	0.1	-	-
Echinodermata												
Asterias/Leptasterias spp.	0.5	-	-	-	-	0.7	-	-	-	0.4	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	31.2	+	-	-	+	69.7	-	-	-	+	-	28.7
Oreaster sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Asteroidea	0.2	0.3	-	0.8	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	0.1	-	-	-	-	-	0.3
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.1	0.2	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

TABLE H-5. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-1 (=REGIONAL STATION 5).

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	0.1	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	0.3	-	0.3	0.1	-	-	0.6	0.5	0.7	0.3
Anthozoa	-	-	-	-	-	-	-	-	-	-	0.05	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-		-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.1	-	-	-	0.1	-	-	-	-	0.1	0.1	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	-	-	-	0.1	-	-	-	0.2	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	0.05	-	0.05	-
Echinodermata												
Asterias/Leptasterias spp.	16.0	-	9.4	-	16.7	8.8	-	-	9.6	8.3	13.9	16.1
Ctenodiscus sp.	-	-	-	-	-	-	-		-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	2.0	-	-	-	-	-	-	0.1	-	0.1
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	0.1	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	0.2	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxin glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.1	-	-	-	0.1	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-6. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 6.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	0.05	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	0.1	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	0.1	-	-	-	-	-	0.1
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	2.0	-	1.6	-	-	-	-	-	-	-	0.1	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	0.9	0.1	-	-	0.5	-	0.4	0.3
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	0.1	-	-	-	-	-	0.1	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	0.1	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	0.1	-	-	-	0.4	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	0.2	-	-	-	-	-	0.1	-	0.3	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.4	-	-	-	0.3	0.2	-	-	0.2	-	-	1.0
Flounder	0.1	-	-	-	0.1	-	-	-	0.1	-	-	0.1
Pisces	-	-	-	-	-	-	-	-	0.1	-	0.1	0.1
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	0.1	-

TABLE H-7. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 7.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.7	-	0.5	-								
Cnidaria												
Hydrozoa (colonial)	-	-	-	-								
Anthozoa	-	-	-	-								
Annelida												
Onuphidae	-	-	-	-								
Mollusca												
Arctica islandica	-	-	-	-								
Illex illecebrosus	-	-	-	-								
Placopecten magellanicus	-	-	-	-								
Gastropoda	-	-	0.3	-								
								STATION DISCONTINUED AFTER MAY 1982				
Arthropoda												
Cancer sp.	-	-	-	-								
Pagurus sp.	-	-	-	-								
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-								
Ctenodiscus sp.	-	-	-	-								
Echinarachnius parma	-	-	-	-								
Oreaster sp.	-	-	-	-								
Asteroidea	-	0.3	-	-								
Pisces												
Cryptacanthodes maculatus	-	-	-	-								
Limanda ferruginea	-	-	-	-								
Lophius americanus	-	-	-	-								
Macrozoarces americanus	-	-	-	-								
Myoxocephalus octodecimspinosus	-	-	-	-								
Myoxocephalus sp.	-	-	-	-								
Myxine glutinosa	-	-	-	-								
Ophichthus cruentifer	-	0.3	0.3	-								
Paralichthys oblongus	-	-	-	-								
Raja sp.	-	-	-	-								
Urophycis chuss	-	-	-	-								
Urophycis sp.	-	0.4	0.3	-								
Flounder	-	-	0.3	-								
Pisces	-	-	-	-								
Sculpin	-	-	-	-								
Shark	-	-	-	-								

TABLE H-8. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 7A.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera					-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)					-	-	-	-	-	0.1	-	-
Anthozoa					-	-	-	-	-	-	-	-
Annelida												
Onuphidae					-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica					-	-	-	-	-	-	-	-
Illex illecebrosus					-	-	-	-	-	-	-	-
Placopecten magellanicus					-	-	-	-	-	-	-	-
Gastropoda					-	-	-	-	-	-	-	-
STATION NOT SAMPLED UNTIL JULY 1982												
Arthropoda												
Cancer sp.					0.1	0.1	-	-	0.05	0.2	-	-
Pagurus sp.					-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.					-	-	-	-	0.1	-	-	-
Ctenodiscus sp.					-	-	-	-	-	-	-	-
Echinarachnius parma					-	-	-	-	-	-	-	-
Oreaster sp.					-	-	-	-	-	-	-	-
Asteroidea					-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus					-	-	-	-	-	-	-	-
Limanda ferruginea					-	-	-	-	-	-	-	-
Lophius americanus					-	-	-	-	-	-	-	-
Macrozoarces americanus					0.1	-	-	-	0.05	0.9	-	-
Myoxocephalus octodecimspinosus					-	-	-	-	-	-	-	-
Myoxocephalus sp.					-	-	-	-	-	-	-	-
Myxine glutinosa					-	-	-	-	-	-	-	-
Ophichthus cruentifer					0.5	-	-	-	-	-	0.2	-
Paralichthys oblongus					-	-	-	-	-	-	-	-
Raja sp.					-	-	-	-	-	-	-	-
Urophycis chuss					-	-	-	-	-	-	-	-
Urophycis sp.					-	-	-	-	-	0.1	0.1	-
Flounder					-	-	-	-	-	-	0.1	-
Pisces					-	-	-	-	-	-	-	-
Sculpin					-	-	-	-	-	-	-	-
Shark					-	-	-	-	-	-	-	-

TABLE H-9. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 8.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	0.2	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	+	-	+	+	-	-	+	+	-	+
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	0.1	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-	-	-	-	-	-	0.1	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	0.3	0.2	-	0.4	0.4	-	-	0.3	0.1	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	0.1	-	-	-	0.1	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	0.2	-	-	-	-	-	-	0.05	-	-	-
Pisces	-	-	-	-	-	-	-	-	0.05	-	-	0.1
Sculpin	-	-	-	-	0.1	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

TABLE H-10. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 9.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	0.1	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	0.6	-	-	-	-	-	-	-	0.1	-	0.05
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-	0.2	-	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	-	-	-	0.2	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	0.4	-	-	-	0.1	-	0.6
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-11. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 10.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	0.3	-	0.6	0.1	0.6	-	-	-	0.6	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	0.2	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.2	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	0.2	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	1.4	-	-	1.0	0.2	4.2	-	-	-	0.6	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	+	+	-	+	+	-	-	-	-	+	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	-	-	-	0.8	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-		-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.2	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.1	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

TABLE H-12. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 11.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	0.1	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	0.2	-	-	-	-	0.6	-	-	-	-	-	1.4
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	0.1	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	0.1	-	-	-	0.1	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	0.1	-	-	-	0.2	-	-
Pagurus sp.	-	-	-	-	-	0.1	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	0.4	-	-	5.5	0.5	0.3	-	-	-	0.2	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	2.8	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.8	-	-	-	-	0.3	-	-	-	-	-	0.2
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodeciinspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	0.4	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	0.1	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-13. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 12.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	0.2	0.2	0.4	-	0.1	-	-	-	-	-	0.2
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	0.1
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Pagurus sp.	-	0.3	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	12.6	0.2	1.0	2.8	-	10.8	-	-	-	-	-	23.5
Ctenodiscus sp.	-	2.8	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	1.4	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	5.3	6.6	14.4	-	0.1	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	0.1	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	0.3
Urophycis sp.	-	-	-	0.2	-	0.1	-	-	-	-	-	-
Flounder	-	0.3	-	0.2	-	-	-	-	-	-	-	0.1
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-14. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 13.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	+	-	-	-	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-	-	-	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	+	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

TABLE H-15. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 14.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-								
Cnidaria												
Hydrozoa (colonial)	-	-	-	-								
Anthozoa	-	-	-	-								
Annelida												
Onuphidae	-	-	-	-								
Mollusca												
Arctica islandica	-	-	-	-								
Illex illecebrosus	-	-	-	-								
Placopecten magellanicus	-	-	-	-								
Gastropoda	-	-	-	-								
							STATION NOT SAMPLED AFTER MAY 1982					
Arthropoda												
Cancer sp.	-	-	-	-								
Pagurus sp.	-	-	-	-								
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-								
Ctenodiscus sp.	-	-	-	-								
Echinarachnius parma	-	-	-	-								
Oreaster sp.	-	-	-	-								
Asteroidea	0.3	-	-	-								
Pisces												
Cryptacanthodes maculatus	-	-	-	-								
Limanda ferruginea	-	-	-	-								
Lophius americanus	-	-	-	-								
Macrozoarces americanus	-	-	-	-								
Myoxocephalus octodecimspinosus	-	-	-	-								
Myoxocephalus sp.	-	-	-	-								
Myxine glutinosa	-	-	-	-								
Ophichthus cruentifer	-	-	-	-								
Paralichthys oblongus	-	-	-	-								
Raja sp.	-	-	-	-								
Urophycis chuss	-	-	-	-								
Urophycis sp.	-	-	-	-								
Flounder	-	-	-	-								
Pisces	-	-	-	-								
Sculpin	-	-	-	-								
Shark	-	-	-	-								

TABLE H-16. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 15.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	0.1	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-	-	2.0	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	0.3	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.4	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-17. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 16.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	0.1	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	0.2	-	-	-	-	-	-	-	-	0.1
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	+	-	-	+	-	-	+
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	0.1	-	-	0.2
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	0.4	0.6	1.0	-	1.3	0.5	-	-	0.2	0.1	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	0.4	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.2	-	0.5	0.5	-	-	-	-	0.4	1.0	-	1.0
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	0.2	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.2	-	-	-	-	-	-	-	-	-	-	-
Flounder	0.2	-	-	0.2	-	-	-	-	0.05	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

TABLE H-18. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 17.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	0.1	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	+	-	-	+	+	-	-	+	+	+	+
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	0.1	0.4	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	0.8	0.8	-	-	-	-	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	0.2	0.2	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.1	-	0.4	0.8	1.0	0.6	-	-	0.6	0.6	0.5	1.0
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	0.5	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	0.1	-	-
Ophichthus cruentifer	-	0.2	0.2	-	-	0.1	-	-	-	-	-	0.2
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	0.4	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	0.2	0.1	-	-	-	0.2	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	0.1	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

TABLE H-19. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 18.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	0.1	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	0.2	0.2	-	0.1	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	1.1	0.2	-	15.8	-	-	-	-	0.4	0.6	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.4	-	0.2	-	0.2	0.2	-	-	0.8	0.7	-	1.7
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	0.3	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	1.1
Flounder	-	-	-	-	-	0.1	-	-	0.05	-	-	-
Pisces	-	-	-	-	-	-	-	-	0.05	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-20. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-2.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	1.2	-	-	0.1	-	-	-	0.4	1.2	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	0.4	0.2
Gastropoda	-	-	-	-	0.1	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	0.1	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	14.8	-	13.8	-	17.2	6.3	-	-	-	10.6	14.0	16.0
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.1	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	0.1	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	0.2
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.2	-	-	-	-	0.1	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-21. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-3.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	0.1	0.2	-	-	-	-	-	0.1
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	0.1	0.1	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	-	-	16.6	8.7	-	-	-	-	-	19.9
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	0.1	-	-	-	-	-	-	0.1
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	0.1	-	-	-	-	-	-	0.1
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-22. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-4.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	0.2	-	0.1	0.2	-	-	-	-	-	0.5
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	0.1
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	7.8	-	13.4	4.7	-	-	-	-	-	16.1
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	0.1	-	-	-	-	-	-	0.1
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	0.1	-	-	-	-	-	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.2	-	-	-	-	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-23. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-5.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	0.2
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	0.1	-	-	-	-	-	-	0.1
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	10.6	-	15.1	7.0	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	0.1	-	-	-	-	-	-	0.3
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	0.1
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Flounder	-	-	-	-	0.1	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-24. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-6.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	0.1	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	0.7	0.3	0.1
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	0.1	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	0.1	-	-	-	-	0.1	0.1
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	0.2
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	-	-	9.2	-	17.0	6.7	-	-	-	10.6	12.2	14.2
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	0.6	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	0.2
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	0.2	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.1	-	-	-	-	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-25. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-7.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.2	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	12.2	-	-	-	-	-	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.4	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-26. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-8.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	1.2	-	-	-	0.1	-	-	-	-	-	0.1	-
Cnidaria												
Hydrozoa (colonial)	-	-	1.0	-	0.1	-	-	-	0.2	0.5	0.6	0.5
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	0.2
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	0.1	0.1	-	-	0.1	-	0.2	-
Gastropoda	-	-	-	-	-	0.1	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	10.1	-	9.6	-	16.6	4.6	-	-	14.3	10.2	13.4	14.3
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.4	-	-	-	-	-	-	-	0.2	-	-	0.1
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	0.1
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	0.1	-	-	-
Myoxocephalus octodeciinspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	0.2	-	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	0.1	-	-	-
Flounder	-	-	-	-	-	0.1	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-27. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-9.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.5	-	-	-	-	-	-	-	-	0.1	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	0.4	-	-	0.1	-	-	-	0.8	0.5	0.4
Anthozoa	0.1	-	-	-	-	-	-	-	-	-	-	0.1
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	0.1	-	-	-	0.1	0.1	0.3
Gastropoda	-	-	0.2	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	-	-	-	0.1	-	-	-	-	-	-	0.1
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	10.4	-	6.2	-	14.3	8.6	-	-	-	7.3	12.0	8.1
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.4	-	0.2	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodeciinspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	0.1	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-28. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-10.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.2	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	0.2	0.1	-	-	-	0.5	0.2	0.5
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	0.3	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	0.1	-	-	-	-	-	0.1
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	9.4	-	11.2	-	12.2	7.4	-	-	-	8.5	8.4	8.5
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.4	-	-	-	-	-	-	-	-	0.1	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	0.1	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	0.1	-	-	-	0.1	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.1	-	-	-	-	-	-	-	-	0.1	-	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-29. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-11.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	0.6	-	-	0.1	-	-	-	-	0.1	0.3
Anthozoa	0.1	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	0.1	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.1	-	-	-	-	0.1	-	-	-	0.1	-	0.2
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	11.6	-	7.2	-	-	6.9	-	-	-	10.6	10.8	10.1
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.2	-	3.4	-	-	-	-	-	-	0.1	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	0.1	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	0.1	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.1	-	-	-	-	0.1	-	-	-	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	-	0.1	-	0.1
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-30. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-12.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	0.4	-	-	-	-	-	-	-	-	-	-	0.2
Anthozoa	-	-	-	-	-	0.1	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	0.1	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	0.1	-	0.2
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	12.6	-	-	-	-	5.8	-	-	-	9.3	4.1	14.9
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	0.1	-	-	-	0.1	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.2	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	0.1	-	0.1
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-31. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-14.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	0.2	-	-	-	0.1	-	-	-	-	-	0.3	0.3
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.2	-	-	-	0.1	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	8.4	-	-	-	16.4	9.8	-	-	11.8	10.1	12.8	12.7
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	0.1	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	2.0	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	0.1
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-32. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING SITE-SPECIFIC STATION 5-16.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.3	0.6	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	1.2	1.2	-	0.4	-	-	-	0.4	0.9	0.6	0.5
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	0.1	-	0.2	-
Placopecten magellanicus	0.1	0.3	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.2	-	-	-	-	-	-	-	0.1	-	-	0.2
Pagurus sp.	-	-	-	-	-	-	-	-	0.1	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	10.5	10.6	10.2	-	21.4	6.1	-	-	11.9	13.8	12.6	13.8
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	0.1	-	-	-	-	-	-	-
Macrozoarces americanus	-	0.1	-	-	-	-	-	-	0.1	-	-	-
Myoxocephalus octodeciinspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	0.3	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	0.1	-	-	0.1	0.1	-	-	-	0.1	-	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.2	-	-	-	-	-	-	-	-	-	-	0.2
Flounder	-	0.1	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-33. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-18.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.5	-	-	-	0.1	-	-	-	-	-	0.1	-
Cnidaria												
Hydrozoa (colonial)	-	1.0	0.7	-	0.4	0.1	-	-	-	0.4	0.4	0.6
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	0.1	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.2	0.3	-	-	-	-	-	-	-	-	0.1	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	-	-	-	0.1	-	-	-	-	0.1	0.1	0.2
Pagurus sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	7.0	4.1	9.0	-	15.1	7.3	-	-	-	6.1	10.8	15.6
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.6	0.2	1.3	-	-	-	-	-	-	0.2	0.3	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	0.1	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	0.1	-	-	-	-	0.1	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	0.2	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-34. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-19.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	-	-
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	-	-	-	-	-	-	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	10.8	-	-	-	-	-	-	-	-	-	-	-
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.2	-	-	-	-	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.1	-	-	-	-	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.2	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-35. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-20.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	-	0.1	-
Anthozoa	0.1	-	-	-	-	-	-	-	-	-	-	0.1
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	-	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.3	-	-	-	0.1	-	-	-	-	0.1	0.1	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	8.6	-	-	-	12.6	5.9	-	-	-	10.0	11.3	15.9
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.9	-	19.7	-	0.1	-	-	-	-	-	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	0.1	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	0.1	-	-	-	-	-	0.2
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	-	-	-	-
Flounder	-	-	-	-	0.1	-	-	-	-	-	-	0.1
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-36. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-22.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.1	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	-	-	-	-	0.1	0.3	0.2
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	0.1	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.4	-	-	-	-	0.4	-	-	-	0.2	0.1	0.1
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	0.2
Pagurus sp.	0.6	-	-	-	-	-	-	-	-	-	-	0.2
Echinodermata												
Asterias/Leptasterias spp.	6.9	-	2.4	-	-	5.1	-	-	9.0	5.1	10.3	9.4
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.1	-	2.0	-	-	0.1	-	-	-	0.9	0.2	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	0.1
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	0.1	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	-	-	-	-	-	-	0.1
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	0.3	-	-	-	-	-	-	-	-	-	-	0.1
Flounder	-	-	-	-	-	-	-	-	-	0.1	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-37. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-25.

	7/81	2/82	3/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.6	-	-	-	0.1	-	-	-	0.05	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	1.8	1.0	-	0.3	0.4	-	-	0.7	0.4	0.7	0.4
Anthozoa	-	-	-	-	-	-	-	-	0.05	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	0.1	0.1	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.2	0.4	-	-	0.1	-	-	-	-	-	0.2	-
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	7.9	5.9	8.8	-	7.6	3.8	-	-	8.3	4.0	3.4	5.8
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	0.6	-	-	-	0.4	-	-	-	0.4	-	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	0.1	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	0.1	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.1	-	-	-	-	-	-	-
Flounder	-	-	-	-	0.1	0.1	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-38. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-28.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidaria												
Hydrozoa (colonial)	-	-	-	-	-	0.1	-	-	0.2	0.3	0.4	0.5
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	0.1	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	-	-	-	-	-	0.2	-	-	0.1	0.1	-	0.5
Gastropoda	-	-	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	-	-	-	-	-	-	-	-	-	-	-	-
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	6.0	-	0.5	-	-	3.4	-	-	5.9	4.9	6.1	4.5
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	0.1	-	5.8	-	-	-	-	-	-	-	0.3	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	0.1	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	-	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	-	-	-	-	-	0.1	-	-	-	0.1	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	-	-	-	-	0.1	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

TABLE H-39. AVERAGE DENSITY PER SQUARE METER OF EPIBENTHIC MACROFAUNA IDENTIFIED FROM BOTTOM PHOTOGRAPHS TAKEN AT GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-29.

	7/81	11/81	2/82	5/82	7/82	11/82	2/83	5/83	7/83	11/83	2/84	6/84
Porifera												
Porifera	0.4	0.1	-	-	-	-	-	-	0.5	0.1	0.3	0.7
Cnidaria												
Hydrozoa (colonial)	0.1	0.9	0.2	-	0.1	-	-	-	0.1	-	-	0.9
Anthozoa	-	-	-	-	-	-	-	-	-	-	-	-
Annelida												
Onuphidae	-	-	-	-	-	-	-	-	-	-	-	-
Mollusca												
Arctica islandica	-	-	-	-	-	-	-	-	-	-	+	-
Illex illecebrosus	-	-	-	-	-	-	-	-	-	-	-	-
Placopecten magellanicus	0.3	0.1	-	-	0.1	-	-	-	-	0.1	0.2	0.1
Gastropoda	-	0.1	-	-	-	-	-	-	-	-	-	-
Arthropoda												
Cancer sp.	0.1	-	-	-	-	0.1	-	-	-	-	-	0.3
Pagurus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinodermata												
Asterias/Leptasterias spp.	2.3	0.2	1.6	-	1.7	0.6	-	-	2.4	0.2	0.6	1.1
Ctenodiscus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Echinarachnius parma	-	-	-	-	-	-	-	-	-	-	-	-
Oreaster sp.	-	-	-	-	-	-	-	-	-	-	-	-
Asteroidea	-	-	-	-	-	1.3	-	-	-	-	0.5	-
Pisces												
Cryptacanthodes maculatus	-	-	-	-	-	-	-	-	-	-	-	-
Limanda ferruginea	-	-	-	-	-	-	-	-	-	-	-	-
Lophius americanus	-	-	-	-	-	-	-	-	-	-	-	-
Macrozoarces americanus	-	-	-	-	0.1	-	-	-	-	-	-	-
Myoxocephalus octodecimspinosus	-	-	-	-	-	-	-	-	-	-	-	-
Myoxocephalus sp.	-	-	-	-	-	-	-	-	-	-	-	-
Myxine glutinosa	-	-	-	-	-	-	-	-	-	-	-	-
Ophichthus cruentifer	-	-	-	-	0.1	-	-	-	-	-	-	-
Paralichthys oblongus	-	-	-	-	-	-	-	-	-	-	-	-
Raja sp.	0.1	-	-	-	-	-	-	-	-	0.1	-	-
Urophycis chuss	-	-	-	-	-	-	-	-	-	-	-	-
Urophycis sp.	-	-	-	-	0.1	-	-	-	1.1	-	-	-
Flounder	-	-	-	-	-	-	-	-	-	-	-	-
Pisces	-	-	-	-	-	-	-	-	-	-	-	-
Sculpin	-	-	-	-	-	-	-	-	-	-	-	-
Shark	-	-	-	-	-	-	-	-	-	-	-	-

+ indicates organism is present; density impossible to estimate accurately

APPENDIX I

TABLE I-1. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 1.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.05	0.02	0.00	0.06	0.03	0.00
2				0.03	0.01	0.00	0.07	0.03	0.00
3	No Samples			0.03	0.01	0.00	0.10	0.04	0.00
4	Collected			0.03	0.01	0.00	0.04	0.02	0.00
5				0.03	0.01	0.00	0.04	0.01	0.00
6				0.06	0.02	0.00	0.04	0.02	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.10	0.03	0.01	0.03	0.03	0.00	0.04	0.02	0.00
2	0.05	0.03	0.01	0.02	0.01	0.01	0.04	0.02	0.00
3	0.04	0.02	0.00	0.02	0.02	0.00	0.04	0.02	0.00
4	0.05	0.01	0.01	0.03	0.02	0.00	0.04	0.02	0.00
5	0.05	0.02	0.00	0.03	0.02	0.00	0.01	0.00	0.01
6	0.06	0.02	0.01	0.37	0.02	0.00	0.04	0.02	0.01

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.09	0.04	0.01	0.07	0.04	0.00	0.05	0.02	0.00
2	0.09	0.03	0.01	0.03	0.02	0.00	0.03	0.02	0.00
3	0.05	0.03	0.00	0.03	0.02	0.00	0.05	0.02	0.00
4	0.17	0.03	0.00	0.04	0.02	0.00	0.04	0.02	0.00
5	0.04	0.03	0.00	0.05	0.02	0.00	0.04	0.02	0.00
6	0.09	0.03	0.00	0.05	0.02	0.00	0.03	0.02	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.07	0.05	0.00	0.08	0.03	0.01	0.07	0.02	0.01
2	0.12	0.06	0.02	0.03	0.02	0.00	0.24	0.05	0.00
3	0.06	0.04	0.01	0.04	0.02	0.00	0.04	0.02	0.00
4	0.16	0.05	0.01	0.03	0.02	0.00	0.06	0.03	0.00
5	0.08	0.04	0.01	0.04	0.02	0.00	0.04	0.02	0.00
6	0.09	0.05	0.01	0.03	0.02	0.00	0.04	0.02	0.00

TABLE I-2. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 2.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.02	0.00	0.00	0.02	0.00	0.00
2				0.03	0.01	0.00	0.02	0.00	0.00
3	No Samples			0.03	0.00	0.00	0.01	0.00	0.00
4	Collected			0.02	0.01	0.00	0.01	0.00	0.00
5				0.03	0.01	0.00	0.02	0.00	0.00
6				0.03	0.01	0.00	0.02	0.00	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.00
2	0.07	0.01	0.00	0.00	0.00	0.00	0.03	0.01	0.00
3	0.08	0.02	0.01	0.01	0.01	0.00	0.03	0.01	0.00
4	0.05	0.01	0.00	0.03	0.01	0.00	0.02	0.01	0.00
5	0.50	0.01	0.00	0.01	0.01	0.00	0.03	0.01	0.00
6	0.05	0.01	0.00	0.03	0.01	0.00	0.02	0.00	0.00

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00
2	0.09	0.01	0.00	0.02	0.01	0.00	0.02	0.00	0.00
3	0.15	0.02	0.00	0.06	0.01	0.00	0.01	0.00	0.00
4	0.21	0.02	0.01	0.03	0.01	0.00	0.01	0.00	0.00
5	0.06	0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00
6	0.06	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00
2	0.07	0.01	0.00	0.02	0.01	0.00	0.02	0.00	0.00
3	0.12	0.01	0.00	0.02	0.01	0.00	0.02	0.00	0.00
4	0.08	0.02	0.00	0.03	0.01	0.00	0.42	0.05	0.00
5	0.05	0.02	0.00	0.01	0.00	0.00	0.02	0.01	0.00
6	0.05	0.01	0.00	0.03	0.01	0.00	0.01	0.00	0.00

TABLE I-3. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 3.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.26	0.04	0.01	0.12	0.02	0.01
2				0.21	0.05	0.03	0.10	0.02	0.01
3	No Samples			0.06	0.01	0.00	0.09	0.02	0.01
4	Collected			0.18	0.03	0.01	0.09	0.02	0.01
5				0.48	0.05	0.02	0.33	0.05	0.01
6				0.07	0.02	0.01	0.34	0.08	0.02

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.44	0.04	0.02	0.50	0.05	0.01	0.13	0.03	0.01
2	0.32	0.04	0.01	2.38	0.14	0.02	0.57	0.12	0.01
3	0.17	0.03	0.01	3.54	0.12	0.01	0.16	0.04	0.02
4	0.89	0.03	0.01	0.10	0.02	0.01	0.77	0.10	0.02
5	0.45	0.04	0.02	0.13	0.04	0.01	0.91	0.12	0.03
6	0.49	0.03	0.01	0.70	0.06	0.00	0.10	0.03	0.01

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.28	0.04	0.01	0.13	0.04	0.01	0.14	0.04	0.01
2	0.26	0.03	0.01	0.40	0.03	0.01	0.45	0.09	0.01
3	0.41	0.04	0.02	No Sample			0.11	0.03	0.01
4	0.26	0.03	0.02	0.60	0.06	0.01	0.65	0.09	0.02
5	0.34	0.04	0.01	0.16	0.03	0.01	0.20	0.05	0.01
6	0.36	0.04	0.02	0.16	0.03	0.00	0.15	0.03	0.01

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	2.37	0.07	0.03	No Sample			0.48	0.04	0.01
2	0.29	0.04	0.02	0.24	0.03	0.02	1.35	0.08	0.01
3	0.42	0.04	0.02	0.42	0.05	0.01	0.38	0.07	0.02
4	0.58	0.05	0.03	3.24	0.12	0.02	0.53	0.06	0.02
5	0.39	0.07	0.03	0.29	0.06	0.01	0.24	0.06	0.01
6	0.73	0.06	0.03	2.75	0.09	0.01	0.09	0.03	0.00

TABLE I-4. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 4.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.09	0.03	0.01	0.07	0.03	0.01
2				0.09	0.03	0.00	0.10	0.03	0.01
3	No Samples			0.08	0.03	0.01	0.08	0.03	0.01
4	Collected			0.09	0.03	0.00	0.08	0.03	0.01
5				0.08	0.03	0.00	0.08	0.03	0.01
6				0.09	0.04	0.00	0.08	0.03	0.01

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.09	0.03	0.01	0.06	0.03	0.01	0.08	0.03	0.01
2	0.13	0.03	0.01	0.07	0.02	0.01	0.09	0.04	0.03
3	0.11	0.04	0.01	0.07	0.03	0.00	0.08	0.03	0.01
4	0.12	0.04	0.01	0.07	0.03	0.00	0.07	0.03	0.01
5	0.10	0.04	0.01	0.07	0.03	0.00	0.08	0.03	0.01
6	0.10	0.04	0.01	0.08	0.03	0.00	0.10	0.04	0.01

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.15	0.06	0.01				0.07	0.03	0.00
2	0.08	0.05	0.02				0.09	0.03	0.01
3	0.14	0.05	0.02	No Samples			0.10	0.03	0.01
4	0.11	0.06	0.02	Collected			0.09	0.03	0.00
5	0.10	0.05	0.01				0.07	0.03	0.01
6	0.07	0.04	0.01				0.08	0.03	0.01

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.12	0.08	0.01	0.11	0.04	0.01	0.07	0.03	0.00
2	0.17	0.08	0.02	0.07	0.03	0.01	0.08	0.03	0.00
3	0.12	0.07	0.01	0.07	0.03	0.00	0.08	0.03	0.00
4	0.56	0.08	0.02	0.07	0.03	0.01	0.11	0.04	0.01
5	0.14	0.07	0.01	0.07	0.03	0.01	0.09	0.03	0.01
6	0.14	0.08	0.02	0.07	0.03	0.01	0.08	0.03	0.00

TABLE I-5. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 5 (SITE-SPECIFIC STATION 5-1).

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.06	0.03	0.00	0.13	0.02	0.00
2				0.07	0.03	0.00	0.04	0.01	0.00
3	No Samples			1.12	0.03	0.01	0.09	0.03	0.01
4	Collected			0.06	0.02	0.00	0.05	0.02	0.00
5				0.16	0.03	0.00	0.10	0.03	0.01
6				0.14	0.04	0.02	0.04	0.02	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.16	0.07	0.02	0.17	0.04	0.01	0.10	0.03	0.01
2	0.10	0.07	0.01	0.12	0.03	0.01	0.18	0.07	0.02
3	0.11	0.06	0.01	0.06	0.04	0.00	0.03	0.02	0.00
4	0.07	0.06	0.01	0.04	0.02	0.00	0.09	0.03	0.01
5	0.16	0.08	0.02	0.04	0.02	0.00	0.03	0.02	0.00
6	0.12	0.07	0.01	0.02	0.01	0.00	0.06	0.04	0.00

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.04	0.01	0.05	0.03	0.00	0.66	0.06	0.01
2	0.10	0.05	0.00	0.03	0.02	0.00	0.05	0.02	0.00
3	0.11	0.04	0.01	0.04	0.01	0.00	0.36	0.01	0.00
4	0.09	0.04	0.01	0.04	0.02	0.00	0.74	0.03	0.00
5	0.06	0.03	0.00	0.05	0.01	0.00	0.13	0.04	0.01
6	0.05	0.03	0.00	No Sample			0.06	0.03	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.25/0.14	0.05/0.05	0.01/0.01	0.05	0.01	0.01	0.04	0.01	0.00
2	0.41/0.15	0.04/0.04	0.01/0.02	0.06	0.02	0.01	0.06	0.02	0.00
3	0.66/0.20	0.04/0.05	0.01/0.02	0.04	0.01	0.00	0.09	0.04	0.01
4	0.20/0.16	0.04/0.05	0.02/0.01	0.07	0.03	0.01	0.19	0.05	0.00
5	0.12/0.16	0.03/0.04	0.01/0.01	0.20	0.03	0.01	0.04	0.01	0.00
6	0.23/0.18	0.04/0.05	0.01/0.01	0.14	0.04	0.01	0.04	0.01	0.00

* Duplicate set analyzed.

TABLE I-6. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 6.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.16	0.03	0.01	0.10	0.03	0.01
2				0.08	0.02	0.00	0.13	0.03	0.01
3	No Samples			0.13	0.02	0.00	0.15	0.04	0.02
4	Collected			0.14	0.03	0.01	0.11	0.02	0.01
5				0.11	0.02	0.00	0.38	0.08	0.02
6				0.14	0.03	0.01	0.78	0.05	0.02

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.43	0.07	0.03	0.18	0.04	0.02	0.22	0.05	0.02
2	0.35	0.06	0.03	0.16	0.04	0.02	0.17	0.04	0.01
3	0.32	0.06	0.03	0.11	0.03	0.01	0.17	0.04	0.02
4	0.37	0.07	0.03	0.19	0.04	0.03	0.15	0.04	0.01
5	0.40	0.06	0.03	0.15	0.04	0.01	0.14	0.04	0.01
6	0.26	0.05	0.02	0.23	0.06	0.02	0.12	0.03	0.01

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.51	0.08	0.03	0.12	0.04	0.00	0.13	0.04	0.02
2	0.35	0.06	0.03	0.13	0.05	0.02	0.15	0.04	0.02
3	0.54	0.07	0.03	0.12	0.04	0.01	0.15	0.04	0.02
4	0.53	0.07	0.03	0.17	0.04	0.01	0.16	0.04	0.02
5	0.32	0.07	0.02	0.15	0.04	0.02	0.10	0.03	0.01
6	0.36	0.07	0.03	0.16	0.04	0.01	0.77	0.06	0.02

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.40	0.06	0.03	0.17	0.04	0.02	0.12	0.03	0.01
2	0.28	0.06	0.02	0.21	0.05	0.01	0.12	0.03	0.00
3	0.36	0.07	0.02	0.08	0.03	0.01	0.27	0.05	0.04
4	0.34	0.07	0.03	0.12	0.04	0.01	0.12	0.03	0.01
5	0.27	0.25	0.03	0.21	0.05	0.02	1.22	0.09	0.01
6	0.40	0.07	0.03	0.15	0.05	0.01	1.10	0.08	0.01

TABLE I-7. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 7.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1									
2									
3	No Samples Collected			No Samples Collected			No Samples Collected		
4									
5									
6									

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.32	0.08	0.01						
2	0.45	0.06	0.01						
3	1.02	0.12	0.02	No Samples Collected			No Samples Collected		
4	0.49	0.11	0.02						
5	0.37	0.09	0.02						
6	0.69	0.09	0.02						

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.41	0.05	0.01						
2	0.88	0.06	0.02						
3	0.36	0.05	0.02	No Samples Collected			No Samples Collected		
4	1.11	0.07	0.02						
5	0.34	0.06	0.02						
6	0.40	0.05	0.02						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	1.10	0.08	0.03						
2	0.50	0.07	0.03						
3	0.51	0.05	0.02	No Samples Collected			No Samples Collected		
4	2.50	0.08	0.02						
5	0.55	0.07	0.03						
6	0.69	0.06	0.02						

TABLE I-8. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 7A.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.01	0.28	0.10	0.69	0.18	0.08
2				0.88	0.24	0.08	0.37	0.12	0.04
3	No Samples			0.65	0.19	0.07	0.45	0.16	0.05
4	Collected			0.53	0.17	0.04	0.59	0.18	0.08
5				0.68	0.18	0.06	0.45	0.14	0.05
6				0.59	0.19	0.05	0.48	0.15	0.05

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.63	0.22	0.10	0.89	0.26	0.09
2				0.88	0.27	0.11	0.48	0.18	0.05
3	No Samples			0.60	0.19	0.08	0.69	0.24	0.07
4	Collected			0.66	0.21	0.07	0.80	0.27	0.09
5				0.67	0.21	0.08	0.79	0.27	0.09
6				0.88	0.28	0.10	0.75	0.23	0.07

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.47	0.16	0.06	0.52	0.18	0.06
2				0.40	0.14	0.05	0.65	0.20	0.08
3	No Samples			0.70	0.21	0.08	0.62	0.20	0.07
4	Collected			0.48	0.17	0.06	0.77	0.21	0.10
5				0.63	0.21	0.07	0.40	0.14	0.05
6				0.57	0.18	0.06	0.74	0.25	0.08

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.05	0.29	0.11	0.67	0.23	0.07
2				1.02	0.27	0.10	1.12	0.35	0.13
3	No Samples			0.67	0.22	0.07	0.75	0.27	0.08
4	Collected			0.67	0.21	0.07	0.49	0.18	0.05
5				0.59	0.19	0.06	0.86	0.28	0.10
6				0.59	0.19	0.07	0.52	0.20	0.05

TABLE I-9. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 8.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.06	0.03	0.00	0.07	0.03	0.01
2				0.07	0.02	0.00	0.08	0.03	0.01
3	No Samples			0.03	0.01	0.00	0.09	0.04	0.01
4	Collected			0.07	0.02	0.00	0.06	0.03	0.00
5				0.08	0.02	0.00	0.10	0.04	0.01
6				0.09	0.03	0.00	0.05	0.02	0.01

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.33	0.06	0.01	0.09	0.03	0.01	0.12	0.05	0.02
2	0.45	0.06	0.01	0.10	0.03	0.01	No Sample		
3	0.42	0.05	0.00	0.12	0.04	0.00	0.15	0.04	0.01
4	0.53	0.05	0.01	0.12	0.04	0.00	0.12	0.04	0.00
5	0.36	0.07	0.01	0.19	0.05	0.01	0.11	0.04	0.01
6	0.40	0.04	0.00	0.08	0.03	0.00	0.22	0.07	0.03

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.41	0.07	0.01	0.06	0.03	0.00	0.11	0.05	0.01
2	0.44	0.07	0.02	0.09	0.04	0.00	0.09	0.04	0.01
3	0.38	0.06	0.02	0.11	0.04	0.00	0.84	0.05	0.01
4	0.55	0.10	0.02	0.12	0.04	0.00	0.11	0.03	0.00
5	0.43	0.07	0.02	0.06	0.03	0.00	0.08	0.03	0.00
6	0.44	0.07	0.02	0.11	0.04	0.00	0.12	0.04	0.01

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.38	0.04	0.01	0.11	0.03	0.00	0.09	0.05	0.00
2	0.38	0.04	0.01	0.09	0.04	0.01	0.11	0.03	0.00
3	0.55	0.06	0.02	0.13	0.05	0.00	0.08	0.03	0.01
4	0.40	0.04	0.01	0.10	0.04	0.01	0.21	0.06	0.02
5	0.47	0.05	0.01	0.12	0.04	0.00	0.04	0.02	0.00
6	0.35	0.04	0.01	0.24	0.06	0.02	0.00	0.08	0.03

TABLE I-10. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 9.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.08	0.03	0.00	0.09	0.04	0.01
2				0.10	0.04	0.02	0.07	0.03	0.00
3	No Samples			0.07	0.02	0.01	0.12	0.04	0.02
4	Collected			0.07	0.02	0.00	0.09	0.03	0.01
5				0.05	0.02	0.00	0.06	0.02	0.00
6				0.08	0.03	0.02	0.11	0.04	0.01

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.22	0.04	0.00	0.11	0.05	0.01	0.11	0.05	0.01
2	0.21	0.04	0.00	0.12	0.04	0.01	0.10	0.04	0.00
3	0.25	0.04	0.01	0.08	0.03	0.01	0.10	0.04	0.00
4	0.24	0.05	0.01	0.11	0.04	0.01	0.09	0.04	0.00
5	0.18	0.04	0.00	0.10	0.04	0.01	0.14	0.04	0.01
6	0.24	0.04	0.00	0.08	0.03	0.01	0.11	0.04	0.01

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.33	0.06	0.00				0.11	0.03	0.01
2	0.27	0.04	0.01				0.07	0.02	0.00
3	0.34	0.07	0.01	No Samples			0.12	0.04	0.01
4	0.36	0.06	0.01	Collected			0.08	0.03	0.00
5	0.22	0.05	0.00				0.07	0.03	0.00
6	0.24	0.05	0.00				0.10	0.04	0.01

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.26	0.08	0.01	0.09	0.04	0.01	0.07	0.03	0.00
2	0.24	0.08	0.01	0.10	0.04	0.01	0.10	0.04	0.00
3	0.26	0.08	0.01	0.11	0.04	0.01	0.15	0.05	0.01
4	0.26	0.07	0.01	0.11	0.04	0.01	0.10	0.04	0.00
5	0.28	0.08	0.01	1.38	0.05	0.01	0.11	0.04	0.00
6	0.26	0.07	0.01	0.16	0.05	0.01	0.10	0.04	0.00

TABLE I-11. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 10.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.07	0.03	0.00	0.05	0.02	0.00
2				0.05	0.01	0.00	0.07	0.02	0.00
3	No Samples			0.10	0.02	0.00	0.03	0.02	0.00
4	Collected			0.05	0.02	0.00	0.04	0.01	0.00
5				0.13	0.03	0.00	0.32	0.06	0.02
6				0.08	0.02	0.00	0.06	0.01	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.04	0.01	0.01	0.03	0.01	0.00	0.31	0.13	0.00
2	0.18	0.03	0.01	0.06	0.02	0.01	0.10	0.05	0.01
3	0.08	0.02	0.01	0.03	0.02	0.00	0.05	0.02	0.00
4	0.12	0.01	0.01	0.04	0.02	0.00	0.05	0.02	0.00
5	0.04	0.02	0.01	0.13	0.04	0.00	0.09	0.03	0.01
6	0.15	0.02	0.00	0.03	0.02	0.00	0.11	0.05	0.00

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.05	0.03	0.00	0.04	0.02	0.00	0.00	0.00	0.00
2	0.07	0.03	0.00	0.02	0.01	0.00	0.02	0.01	0.00
3	0.10	0.04	0.01	0.04	0.02	0.00	0.02	0.01	0.00
4	No Sample			0.04	0.02	0.00	0.01	0.01	0.00
5	0.12	0.05	0.01	0.05	0.01	0.00	0.01	0.00	0.00
6	0.06	0.03	0.01	0.01	0.01	0.00	0.01	0.01	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.06	0.01	0.05	0.02	0.00	0.04	0.02	0.00
2	0.16	0.07	0.01	0.03	0.01	0.00	0.02	0.01	0.00
3	0.23	0.05	0.00	0.04	0.02	0.00	0.03	0.01	0.00
4	0.10	0.06	0.01	0.05	0.02	0.01	0.03	0.01	0.00
5	0.32	0.08	0.00	0.10	0.03	0.01	0.02	0.01	0.00
6	0.08	0.05	0.00	0.04	0.02	0.00	0.03	0.01	0.00

TABLE I-12. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 11.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.18	0.06	0.02	0.18	0.06	0.02
2				0.24	0.07	0.03	0.17	0.06	0.02
3	No Samples			0.14	0.06	0.01	0.16	0.06	0.01
4	Collected			0.18	0.06	0.01	0.19	0.07	0.02
5				0.17	0.06	0.01	0.17	0.07	0.02
6				0.15	0.05	0.00	0.18	0.07	0.02

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.23	0.06	0.02	0.31	0.08	0.03	0.16	0.05	0.02
2	0.17	0.06	0.01	0.13	0.06	0.01	0.16	0.06	0.02
3	0.18	0.06	0.02	0.17	0.07	0.02	0.17	0.05	0.02
4	0.23	0.07	0.02	0.18	0.07	0.02	0.16	0.06	0.02
5	0.22	0.07	0.02	0.15	0.06	0.02	0.16	0.06	0.02
6	0.22	0.07	0.02	0.16	0.06	0.01	0.17	0.06	0.02

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.24	0.08	0.03				0.19	0.06	0.02
2	0.19	0.08	0.03				0.14	0.05	0.01
3	0.48	0.13	0.06	No Samples			0.18	0.06	0.02
4	0.59	0.10	0.04	Collected			0.17	0.06	0.03
5	0.24	0.08	0.03				0.16	0.06	0.02
6	0.26	0.09	0.04				0.20	0.06	0.02

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.20	0.09	0.02	0.21	0.06	0.03	0.21	0.07	0.02
2	0.44	0.15	0.05	0.16	0.06	0.02	0.17	0.06	0.02
3	0.22	0.10	0.02	0.18	0.06	0.02	0.18	0.06	0.01
4	0.35	0.13	0.04	0.23	0.07	0.03	0.16	0.06	0.01
5	0.31	0.13	0.04	0.23	0.07	0.02	0.15	0.06	0.01
6	0.24	0.10	0.02	0.15	0.05	0.01	0.16	0.06	0.01

TABLE I-13. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 12.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.15	0.04	0.00	0.37	0.10	0.04
2				0.07	0.03	0.00	0.33	0.09	0.04
3	No Samples			0.08	0.02	0.00	0.20	0.06	0.02
4	Collected			0.09	0.02	0.01	0.78	0.10	0.01
5				0.19	0.05	0.01	0.16	0.06	0.01
6				0.10	0.03	0.00	0.24	0.05	0.01

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.59	0.07	0.02	0.14	0.04	0.01	0.18	0.06	0.02
2	0.33	0.06	0.02	0.20	0.06	0.03	0.18	0.05	0.02
3	0.30	0.06	0.02	0.11	0.03	0.01	0.25	0.06	0.03
4	0.58	0.06	0.02	0.34	0.09	0.06	0.21	0.07	0.03
5	0.74	0.05	0.01	0.21	0.06	0.03	0.23	0.06	0.02
6	0.34	0.06	0.03	0.21	0.06	0.02	0.20	0.06	0.02

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.25	0.06	0.02				0.10	0.03	0.01
2	0.66	0.12	0.05				0.17	0.05	0.02
3	0.29	0.07	0.02	No Samples			0.14	0.05	0.01
4	0.17	0.04	0.01	Collected			0.24	0.07	0.03
5	0.35	0.08	0.03				0.16	0.05	0.02
6	0.35	0.08	0.03				0.17	0.06	0.02

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.33	0.10	0.03	0.20	0.06	0.02	0.18	0.05	0.01
2	0.42	0.12	0.03	0.22	0.06	0.02	0.13	0.04	0.01
3	0.50	0.13	0.04	0.19	0.06	0.02	0.18	0.06	0.02
4	0.26	0.09	0.02	0.11	0.03	0.01	0.13	0.04	0.01
5	0.11	0.06	0.01	0.18	0.06	0.02	0.13	0.04	0.01
6	0.26	0.09	0.02	0.20	0.06	0.02	0.18	0.05	0.02

TABLE I-14. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 13.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.40	0.36	0.22	0.53	0.16	0.07
2				0.91	0.24	0.12	1.19	0.32	0.15
3	No Samples			0.96	0.24	0.12	0.98	0.28	0.13
4	Collected			0.88	0.25	0.11	0.77	0.22	0.10
5				1.40	0.28	0.13	0.56	0.17	0.07
6				0.99	0.27	0.12	0.85	0.24	0.10

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	1.22	0.28	0.15	0.91	0.24	0.12	0.91	0.23	0.12
2	0.95	0.21	0.11	0.80	0.22	0.10	1.31	0.34	0.18
3	1.27	0.31	0.15	1.16	0.29	0.16	0.66	0.19	0.10
4	1.09	0.28	0.13	0.82	0.23	0.11	0.88	0.23	0.11
5	1.27	0.31	0.15	1.03	0.28	0.15	0.88	0.24	0.11
6	0.97	0.25	0.11	0.72	0.21	0.10	0.97	0.27	0.13

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	1.22	0.22	0.15	0.72	0.16	0.09	0.73	0.19	0.09
2	1.06	0.27	0.12	0.67	0.18	0.08	0.80	0.22	0.10
3	1.02	0.27	0.11	0.61	0.17	0.07	0.92	0.24	0.11
4	1.07	0.29	0.13	0.72	0.19	0.09	0.81	0.22	0.10
5	1.07	0.29	0.13	0.77	0.21	0.10	1.24	0.33	0.16
6	1.01	0.27	0.12	0.76	0.21	0.09	0.67	0.20	0.08

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	1.25	0.35	0.16	0.64	0.16	0.07	0.94	0.25	0.12
2	1.08	0.30	0.14	0.67	0.19	0.08	0.99	0.27	0.13
3	1.32	0.42	0.17	1.03	0.27	0.13	1.00	0.28	0.13
4	1.15	0.36	0.14	0.61	0.17	0.08	1.00	0.28	0.13
5	0.94	0.30	0.12	0.85	0.23	0.11	0.90	0.26	0.11
6	0.91	0.29	0.11	1.09	0.28	0.15	0.90	0.23	0.10

TABLE I-15. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 13A.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				2.13	0.55	0.26	2.03	0.56	0.25
2				1.99	0.53	0.24	1.94	0.50	0.24
3	No Samples Collected			2.02	0.49	0.25	1.77	0.50	0.22
4				1.66	0.44	0.20	1.85	0.53	0.23
5				2.03	0.52	0.25	1.79	0.52	0.22
6				1.95	0.53	0.25	2.13	0.60	0.26

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.89	0.51	0.24	2.12	0.55	0.26
2				2.07	0.56	0.26	1.99	0.53	0.25
3	No Samples Collected			1.87	0.50	0.22	2.00	0.45	0.25
4				1.95	0.52	0.25	1.84	0.51	0.23
5				1.97	0.52	0.25	1.85	0.48	0.23
6				1.98	0.52	0.25	1.95	0.50	0.25

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1							1.80	0.49	0.22
2							2.47	0.69	0.32
3	No Samples Collected			No Samples Collected			1.95	0.55	0.23
4							1.94	0.51	0.23
5							2.15	0.62	0.26
6							1.71	0.48	0.20

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.79	0.43	0.23	2.00	0.53	0.23
2				2.18	0.56	0.28	1.80	0.50	0.22
3	No Samples Collected			2.16	0.54	0.27	1.90	0.53	0.24
4				2.19	0.57	0.27	1.99	0.48	0.24
5				2.00	0.48	0.24	1.88	0.51	0.23
6				2.13	0.53	0.26	1.94	0.54	0.24

TABLE I-16. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 14.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1									
2									
3	No Samples Collected			No Samples Collected			No Samples Collected		
4									
5									
6									

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.81	0.23	0.11						
2	0.13	0.05	0.02						
3	0.04	0.03	0.01	No Samples Collected			No Samples Collected		
4	0.23	0.07	0.04						
5	0.07	0.04	0.01						
6	0.11	0.05	0.02						

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1									
2									
3	Samples Archived			No Samples Collected			No Samples Collected		
4									
5									
6									

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1									
2									
3	Samples Archived			No Samples Collected			No Samples Collected		
4									
5									
6									

TABLE I-17. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 14A.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.89	0.56	0.25	1.97	0.61	0.26
2				2.16	0.68	0.29	1.86	0.56	0.24
3	No Samples			1.86	0.60	0.24	2.20	0.67	0.28
4	Collected			1.74	0.56	0.24	2.04	0.62	0.27
5				2.16	0.69	0.28	2.18	0.61	0.28
6				2.02	0.54	0.26	1.73	0.53	0.27

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				2.00	0.63	0.26			
2				2.40	0.64	0.31			
3	No Samples			2.29	0.69	0.29	No Samples		
4	Collected			1.93	0.62	0.25	Collected		
5				1.78	0.54	0.23			
6				1.71	0.54	0.22			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.98	0.60	0.24			
2				1.84	0.54	0.23			
3	No Samples			1.71	0.54	0.21	No Samples		
4	Collected			1.56	0.49	0.20	Collected		
5				1.75	0.55	0.21			
6				1.72	0.54	0.21			

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				1.69	0.50	0.22			
2				2.09	0.63	0.26			
3	No Samples			2.19	0.67	0.29	No Samples		
4	Collected			1.85	0.48	0.24	Collected		
5				2.05	0.57	0.27			
6				1.81	0.56	0.24			

TABLE I-18. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 15.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1									
2									
3	No Samples Collected			No Samples Collected			No Samples Collected		
4									
5									
6									

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.04	0.02	0.00						
2	0.04	0.02	0.00						
3	0.05	0.01	0.00	No Samples Collected			No Samples Collected		
4	0.04	0.02	0.00						
5	0.04	0.01	0.00						
6	0.05	0.02	0.01						

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.02	0.00						
2	0.09	0.02	0.00						
3	0.06	0.02	0.00	No Samples Collected			No Samples Collected		
4	0.05	0.02	0.00						
5	0.03	0.02	0.00						
6	0.07	0.02	0.00						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	No Sample								
2	0.06	0.04	0.00						
3	0.08	0.04	0.00	No Samples Collected			No Samples Collected		
4	0.11	0.04	0.00						
5	0.13	0.04	0.00						
6	0.06	0.05	0.00						

TABLE I-19. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 16.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.04	0.02	0.00	0.06	0.02	0.01
2				0.04	0.01	0.00	0.09	0.02	0.00
3	No Samples			0.04	0.02	0.00	0.20	0.02	0.00
4	Collected			0.09	0.02	0.00	0.02	0.01	0.00
5				0.04	0.01	0.00	0.08	0.01	0.00
6				0.08	0.01	0.00	0.04	0.01	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.42	0.03	0.00	0.06	0.01	0.01	0.03	0.01	0.00
2	0.17	0.02	0.00	0.04	0.01	0.00	0.26	0.07	0.00
3	0.15	0.02	0.00	0.04	0.01	0.01	0.05	0.02	0.00
4	0.13	0.02	0.00	0.05	0.02	0.01	0.05	0.01	0.00
5	0.47	0.03	0.00	0.04	0.01	0.00	0.10	0.02	0.00
6	0.24	0.03	0.00	0.08	0.01	0.00	0.07	0.02	0.01

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.12	0.01	0.00	0.02	0.00	0.00	0.21	0.03	0.00
2	0.49	0.02	0.01	0.05	0.01	0.00	0.07	0.02	0.00
3	0.12	0.01	0.00	0.03	0.01	0.00	0.02	0.00	0.00
4	0.16	0.02	0.00	0.02	0.01	0.00	0.05	0.01	0.00
5	0.17	0.02	0.01	0.05	0.01	0.01	0.04	0.01	0.00
6	0.15	0.02	0.01	0.03	0.01	0.00	0.06	0.01	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.19	0.03	0.01	0.04	0.01	0.01	0.06	0.02	0.00
2	0.32	0.02	0.01	0.05	0.01	0.00	0.09	0.01	0.00
3	0.19	0.05	0.01	0.03	0.01	0.00	0.05	0.01	0.00
4	0.16	0.03	0.00	0.05	0.01	0.00	0.05	0.01	0.00
5	0.19	0.04	0.01	0.28	0.03	0.00	0.05	0.01	0.00
6	0.12	0.03	0.00	0.07	0.02	0.00	0.06	0.01	0.00

TABLE I-20. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 17.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.02	0.00	0.00			
2				0.02	0.02	0.00			
3	No Samples			0.03	0.01	0.00	Samples		
4	Collected			0.04	0.01	0.00	Archived		
5				0.03	0.01	0.00			
6				0.33	0.03	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.24	0.02	0.01	0.06	0.01	0.00			
2	0.19	0.02	0.01	0.02	0.01	0.00			
3	0.32	0.04	0.02	0.23	0.03	0.00	Samples		
4	0.20	0.02	0.01	0.03	0.01	0.00	Archived		
5	0.14	0.02	0.01	0.09	0.01	0.00			
6	0.19	0.02	0.02	0.02	0.01	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.32	0.02	0.00	0.03	0.01	0.00			
2	0.92	0.04	0.01	0.02	0.01	0.00			
3	0.31	0.02	0.01	0.01	0.01	0.00	Samples		
4	0.22	0.03	0.00	0.08	0.02	0.00	Archived		
5	0.67	0.02	0.00	0.00	0.00	0.00			
6	0.36	0.04	0.01	0.02	0.01	0.00			

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.24	0.03	0.00	0.02	0.01	0.00			
2	0.18	0.04	0.01	0.04	0.01	0.00			
3	0.21	0.03	0.00	0.05	0.01	0.00	Samples		
4	0.09	0.02	0.00	0.04	0.01	0.00	Archived		
5	0.28	0.03	0.00	0.06	0.01	0.00			
6	0.10	0.03	0.00	0.43	0.02	0.01			

TABLE I-21. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATION 18.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.05	0.02	0.00			
2				0.04	0.01	0.00			
3	No Samples			0.04	0.00	0.00	Samples		
4	Collected			0.14	0.02	0.00	Archived		
5				0.04	0.01	0.00			
6				0.05	0.01	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.17	0.01	0.02	0.05	0.01	0.00			
2	0.22	0.02	0.01	0.07	0.02	0.00			
3	0.19	0.02	0.02	0.08	0.02	0.00	Samples		
4	0.20	0.02	0.01	0.05	0.01	0.00	Archived		
5	0.19	0.02	0.01	0.04	0.01	0.00			
6	0.22	0.02	0.01	0.03	0.01	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.02	0.00	0.04	0.01	0.00			
2	0.18	0.03	0.00	0.07	0.01	0.00			
3	0.22	0.03	0.00	0.06	0.01	0.00	Samples		
4	0.17	0.03	0.00	0.07	0.01	0.00	Archived		
5	0.18	0.03	0.00	No Sample					
6	0.20	0.04	0.00	No Sample					

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.25	0.03	0.01	0.08	0.02	0.00			
2	0.27	0.03	0.01	0.07	0.02	0.00			
3	0.24	0.03	0.00	0.10	0.02	0.01	Samples		
4	0.11	0.02	0.00	0.06	0.02	0.00	Archived		
5	0.20	0.03	0.01	0.05	0.01	0.00			
6	0.18	0.03	0.01	0.07	0.02	0.00			

TABLE I-22. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-2.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.04	0.02	0.00			
2				0.05	0.02	0.00			
3	No Samples			0.11	0.03	0.00	Samples		
4	Collected			0.05	0.03	0.00	Archived		
5				0.02	0.01	0.00			
6				0.05	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.04	0.01	0.05	0.03	0.00			
2	0.03	0.03	0.00	0.04	0.02	0.00			
3	0.07	0.03	0.02	0.05	0.02	0.00	Samples		
4	0.10	0.03	0.00	0.03	0.02	0.00	Archived		
5	0.20	0.05	0.02	0.03	0.01	0.00			
6	0.07	0.02	0.02	0.02	0.01	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.02	0.00						
2	0.11	0.03	0.01						
3	0.09	0.03	0.00	No Samples			Samples		
4	0.08	0.02	0.00	Collected			Archived		
5	0.12	0.03	0.01						
6	0.12	0.04	0.01						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.15	0.06	0.01	0.08	0.02	0.01			
2	0.17	0.06	0.01	0.07	0.02	0.00			
3	0.17	0.06	0.01	0.05	0.02	0.00	Samples		
4	0.13	0.06	0.01	0.05	0.02	0.00	Archived		
5	0.10	0.05	0.01	0.05	0.02	0.01			
6	0.15	0.07	0.01	0.03	0.02	0.00			

TABLE I-23. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-3.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.12	0.04	0.00			
2				0.05	0.02	0.00			
3	No Samples			0.04	0.02	0.00	No Samples		
4	Collected			0.07	0.02	0.00	Collected		
5				0.10	0.03	0.00			
6				0.02	0.01	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.13	0.07	0.01	0.05	0.02	0.00			
2	0.12	0.07	0.01	0.10	0.03	0.01			
3	0.11	0.06	0.01	0.07	0.03	0.00	No Samples		
4	0.06	0.06	0.00	0.04	0.02	0.00	Collected		
5	0.18	0.09	0.02	0.15	0.03	0.01			
6	0.07	0.05	0.00	0.08	0.02	0.01			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.04	0.01						
2	0.09	0.04	0.01						
3	0.15	0.05	0.02	No Samples			No Samples		
4	0.12	0.03	0.02	Collected			Collected		
5	0.03	0.03	0.00						
6	0.13	0.05	0.02						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.04	0.02	0.00	0.12	0.02	0.00			
2	0.08	0.02	0.00	0.05	0.02	0.01			
3	0.08	0.01	0.00	0.03	0.01	0.00	No Samples		
4	0.06	0.02	0.00	0.05	0.02	0.00	Collected		
5	0.29	0.02	0.01	0.05	0.02	0.00			
6	0.10	0.02	0.00	0.02	0.01	0.00			

TABLE I-24. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-4.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.05	0.02	0.00			
2				0.04	0.02	0.00			
3	No Samples			0.03	0.01	0.00	No Samples		
4	Collected			0.04	0.02	0.00	Collected		
5				0.03	0.00	0.00			
6				0.02	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.12	0.07	0.01	0.08	0.03	0.00			
2	0.21	0.13	0.02	0.03	0.02	0.00			
3	0.11	0.08	0.01	0.03	0.03	0.00	No Samples		
4	0.14	0.07	0.01	0.05	0.02	0.01	Collected		
5	0.16	0.09	0.01	0.04	0.02	0.00			
6	0.30	0.10	0.02	0.02	0.01	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.20	0.05	0.02						
2	0.14	0.04	0.01						
3	0.16	0.04	0.01	No Samples			No Samples		
4	0.38	0.05	0.01	Collected			Collected		
5	0.10	0.04	0.01						
6	0.14	0.04	0.01						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.22	0.08	0.03	0.04	0.01	0.00			
2	0.09	0.05	0.01	0.04	0.01	0.00			
3	0.15	0.07	0.01	0.03	0.02	0.00	No Samples		
4	0.14	0.07	0.01	0.13	0.04	0.01	Collected		
5	0.11	0.07	0.01	0.04	0.02	0.00			
6	0.30	0.06	0.01	0.03	0.01	0.00			

TABLE I-25. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-5.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.02	0.01	0.00			
2				0.01	0.01	0.00			
3	No Samples			0.08	0.03	0.00	No Samples		
4	Collected			0.03	0.02	0.00	Collected		
5				0.03	0.02	0.00			
6				0.04	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.12	0.04	0.02	0.02	0.01	0.00			
2	0.02	0.02	0.02	0.02	0.02	0.00			
3	0.04	0.02	0.02	0.04	0.02	0.00	No Samples		
4	0.05	0.02	0.01	0.03	0.01	0.00	Collected		
5	0.09	0.03	0.01	0.05	0.02	0.00			
6	0.16	0.04	0.02	0.03	0.03	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.05	0.03	0.01						
2	0.09	0.03	0.01						
3	0.05	0.03	0.01	No Samples			No Samples		
4	0.06	0.03	0.01	Collected			Collected		
5	0.12	0.04	0.01						
6	0.06	0.03	0.01						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.07	0.02	0.00	0.04	0.01	0.00			
2	0.09	0.02	0.00	0.05	0.03	0.00			
3	0.10	0.03	0.00	0.04	0.02	0.00	No Samples		
4	0.04	0.01	0.00	0.04	0.02	0.00	Collected		
5	0.07	0.02	0.00	0.04	0.01	0.00			
6	0.11	0.02	0.01	0.06	0.02	0.01			

TABLE I-26. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-6.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.04	0.02	0.00			
2				0.03	0.02	0.00			
3	No Samples			0.05	0.02	0.00	Samples		
4	Collected			0.03	0.01	0.00	Archived		
5				0.02	0.01	0.00			
6				0.03	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.05	0.03	0.00	0.07	0.02	0.01			
2	0.10	0.03	0.01	0.11	0.04	0.01			
3	0.16	0.03	0.01	0.05	0.02	0.00	Samples		
4	0.09	0.03	0.01	0.09	0.03	0.01	Archived		
5	0.08	0.03	0.01	0.05	0.02	0.00			
6	0.08	0.03	0.01	0.05	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.03	0.00						
2	0.11	0.03	0.00						
3	0.04	0.02	0.00	No Samples			Samples		
4	0.05	0.02	0.00	Collected			Archived		
5	0.09	0.03	0.00						
6	0.13	0.03	0.01						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.06	0.02	0.01	0.02	0.01	0.00			
2	0.14	0.04	0.01	0.02	0.01	0.00			
3	0.12	0.03	0.01	0.02	0.01	0.00	Samples		
4	0.26	0.05	0.02	0.03	0.02	0.00	Archived		
5	0.21	0.05	0.02	0.08	0.03	0.00			
6	0.21	0.05	0.01	0.04	0.02	0.00			

TABLE I-27. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-8.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.01	0.01	0.00			
2				0.04	0.02	0.00			
3	No Samples			0.04	0.02	0.00	Samples		
4	Collected			0.06	0.03	0.00	Archived		
5				0.05	0.03	0.00			
6				0.04	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.30	0.12	0.03	0.06	0.02	0.00			
2	0.11	0.06	0.01	0.04	0.01	0.00			
3	0.08	0.06	0.01	0.05	0.02	0.00	Samples		
4	0.10	0.07	0.01	0.04	0.03	0.00	Archived		
5	0.10	0.07	0.01	0.03	0.01	0.00			
6	0.11	0.06	0.01	0.08	0.03	0.02			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.03	0.01						
2	0.12	0.03	0.01						
3	0.12	0.05	0.02	No Samples			Samples		
4	0.29	0.06	0.03	Collected			Archived		
5	0.07	0.03	0.00						
6	0.13	0.04	0.01						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.18	0.06	0.02	0.05	0.02	0.00			
2	0.20	0.08	0.02	0.09	0.05	0.01			
3	0.29	0.07	0.01	0.08	0.02	0.01	Samples		
4	0.17	0.06	0.01	0.09	0.03	0.01	Archived		
5	0.20	0.07	0.01	0.04	0.01	0.00			
6	0.15	0.05	0.01	0.05	0.01	0.00			

TABLE I-28. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-9.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.04	0.03	0.00			
2				0.10	0.03	0.00			
3	No Samples			0.03	0.02	0.00	Samples		
4	Collected			0.05	0.02	0.01	Archived		
5				0.04	0.02	0.00			
6				0.06	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.03	0.01	0.10	0.04	0.01			
2	0.16	0.04	0.01	0.07	0.06	0.00			
3	0.13	0.02	0.01	0.06	0.03	0.00	Samples		
4	0.14	0.04	0.01	0.08	0.03	0.01	Archived		
5	0.11	0.03	0.01	0.24	0.03	0.01			
6	0.12	0.03	0.01	0.09	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.18	0.05	0.01						
2	0.15	0.05	0.00						
3	0.18	0.05	0.01	No Samples			Samples		
4	0.18	0.05	0.00	Collected			Archived		
5	0.14	0.04	0.01						
6	0.11	0.04	0.00						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.08	0.04	0.01	0.11	0.03	0.01			
2	0.15	0.04	0.01	0.08	0.02	0.01			
3	0.13	0.03	0.01	0.13	0.03	0.02	Samples		
4	0.12	0.03	0.01	0.10	0.02	0.01	Archived		
5	0.08	0.03	0.00	0.10	0.03	0.01			
6	0.13	0.02	0.01	0.16	0.04	0.02			

TABLE I-29. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-10.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.05	0.02	0.00			
2				0.07	0.02	0.00			
3	No Samples			0.07	0.05	0.00	Samples		
4	Collected			0.06	0.03	0.00	Archived		
5				0.03	0.02	0.00			
6				0.04	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.10	0.03	0.01	0.05	0.02	0.00			
2	0.20	0.04	0.01	0.04	0.02	0.00			
3	0.13	0.04	0.01	0.61	0.04	0.01	Samples		
4	0.16	0.05	0.01	0.05	0.02	0.01	Archived		
5	0.13	0.04	0.01	0.03	0.02	0.00			
6	0.14	0.04	0.01	0.05	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.11	0.03	0.01						
2	0.15	0.04	0.01						
3	0.12	0.04	0.01	No Samples			Samples		
4	0.11	0.04	0.00	Collected			Archived		
5	0.10	0.03	0.00						
6	0.11	0.04	0.00						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.19	0.07	0.02	0.23	0.01	0.00			
2	0.13	0.08	0.01	0.07	0.02	0.01			
3	0.13	0.06	0.01	0.13	0.03	0.01	Samples		
4	0.15	0.07	0.01	0.07	0.02	0.01	Archived		
5	0.12	0.06	0.01	0.06	0.02	0.01			
6	0.13	0.07	0.01	0.05	0.02	0.00			

TABLE I-30. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-11.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.22	0.03	0.00			
2				0.08	0.02	0.00			
3	No Samples			0.03	0.01	0.00	Samples		
4	Collected			0.07	0.02	0.00	Archived		
5				0.12	0.03	0.00			
6				0.06	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.09	0.02	0.02	0.04	0.02	0.00			
2	0.11	0.03	0.02	0.07	0.02	0.01			
3	0.15	0.03	0.03	0.09	0.03	0.00	Samples		
4	0.08	0.02	0.01	0.05	0.02	0.00	Archived		
5	0.05	0.02	0.01	0.05	0.03	0.00			
6	0.16	0.03	0.02	0.09	0.03	0.01			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.16	0.05	0.01						
2	0.15	0.04	0.01						
3	0.12	0.04	0.01	No Samples			Samples		
4	0.06	0.02	0.00	Collected			Archived		
5	0.14	0.04	0.01						
6	0.12	0.04	0.00						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.09	0.03	0.01			
2				0.04	0.01	0.00			
3	No Samples			0.04	0.02	0.00	Samples		
4	Collected			0.06	0.02	0.00	Archived		
5				0.07	0.03	0.00			
6				0.03	0.02	0.00			

TABLE I-31. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-12.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.04	0.03	0.00			
2				0.06	0.03	0.00			
3	No Samples			0.03	0.01	0.00	Samples		
4	Collected			0.05	0.02	0.01	Archived		
5				0.01	0.01	0.00			
6				0.05	0.01	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.14	0.03	0.01	0.04	0.01	0.00			
2	0.07	0.02	0.01	0.07	0.02	0.00			
3	0.09	0.03	0.01	0.04	0.02	0.00	Samples		
4	0.10	0.03	0.01	0.11	0.04	0.01	Archived		
5	0.10	0.02	0.01	0.03	0.02	0.00			
6	0.07	0.02	0.00	0.03	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.15	0.03	0.00						
2	0.05	0.03	0.00						
3	0.08	0.03	0.00	No Samples			Samples		
4	0.05	0.03	0.00	Collected			Archived		
5	0.10	0.04	0.00						
6	0.05	0.03	0.00						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.05	0.03	0.01	0.07	0.03	0.01			
2	0.03	0.02	0.01	0.03	0.02	0.00			
3	0.09	0.02	0.00	0.02	0.01	0.00	Samples		
4	0.05	0.03	0.00	0.03	0.02	0.00	Archived		
5	0.08	0.03	0.01	0.02	0.01	0.00			
6	0.09	0.04	0.00	0.03	0.01	0.00			

TABLE I-32. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-14.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.05	0.02	0.00			
2				0.03	0.02	0.00			
3	No Samples			0.07	0.03	0.00	Samples		
4	Collected			0.07	0.02	0.00	Archived		
5				0.04	0.02	0.00			
6				0.07	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.09	0.03	0.00	0.04	0.02	0.00			
2	0.13	0.04	0.01	0.05	0.02	0.00			
3	0.08	0.03	0.01	0.06	0.02	0.00	Samples		
4	0.11	0.03	0.00	0.05	0.01	0.00	Archived		
5	0.09	0.03	0.01	0.06	0.02	0.00			
6	0.10	0.03	0.01	0.04	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.12	0.04	0.01						
2	0.07	0.03	0.01						
3	0.05	0.03	0.01	No Samples			Samples		
4	0.09	0.03	0.01	Collected			Archived		
5	0.28	0.07	0.03						
6	0.17	0.05	0.04						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.10	0.05	0.01	0.04	0.02	0.00			
2	0.09	0.04	0.01	0.03	0.02	0.00			
3	0.15	0.06	0.02	0.06	0.02	0.00	Samples		
4	0.08	0.05	0.00	0.02	0.01	0.00	Archived		
5	0.11	0.05	0.01	0.04	0.02	0.00			
6	0.10	0.05	0.01	0.03	0.02	0.00			

TABLE I-33. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-16.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.02	0.02	0.00			
2				0.07	0.02	0.00			
3	No Samples			0.06	0.02	0.00	Samples		
4	Collected			0.04	0.03	0.00	Archived		
5				0.06	0.02	0.00			
6				0.04	0.01	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.10	0.02	0.02	0.02	0.01	0.00			
2	0.13	0.02	0.02	0.06	0.02	0.00			
3	0.05	0.02	0.00	0.03	0.01	0.00	Samples		
4	0.15	0.04	0.01	0.03	0.01	0.00	Archived		
5	0.09	0.03	0.01	0.04	0.02	0.00			
6	0.09	0.02	0.01	0.04	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.06	0.03	0.00						
2	0.10	0.03	0.01						
3	0.11	0.03	0.01	No Samples			Samples		
4	0.13	0.04	0.01	Collected			Archived		
5	0.12	0.05	0.01						
6	0.21	0.05	0.02						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.16	0.07	0.02	0.07	0.03	0.00			
2	0.11	0.05	0.02	0.04	0.02	0.00			
3	0.24	0.08	0.03	0.03	0.01	0.00	Samples		
4	0.20	0.07	0.02	0.03	0.02	0.00	Archived		
5	0.31	0.10	0.01	0.06	0.02	0.00			
6	0.22	0.10	0.02	0.06	0.03	0.00			

TABLE I-34. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-18.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.08	0.03	0.01	0.09	0.02	0.01
2				0.13	0.03	0.03	0.07	0.02	0.00
3	No Samples			0.09	0.03	0.01	0.04	0.02	0.00
4	Collected			0.07	0.03	0.00	0.03	0.02	0.00
5				0.06	0.02	0.01	0.06	0.02	0.00
6				0.11	0.03	0.00	0.06	0.02	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.23	0.05	0.03	0.03	0.02	0.00	0.05	0.02	0.00
2	0.11	0.03	0.01	0.05	0.02	0.00	0.07	0.02	0.00
3	0.14	0.04	0.01	0.04	0.02	0.00	0.04	0.02	0.00
4	0.18	0.04	0.01	0.03	0.01	0.00	0.08	0.02	0.01
5	0.17	0.04	0.01	0.03	0.02	0.00	0.44	0.10	0.01
6	0.11	0.03	0.01	0.05	0.02	0.00	0.04	0.02	0.00

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.16	0.04	0.01	0.07	0.02	0.00	0.08	0.02	0.01
2	0.12	0.04	0.01	0.10	0.03	0.01	0.04	0.01	0.00
3	0.27	0.06	0.03	0.02	0.02	0.00	0.04	0.02	0.00
4	0.20	0.05	0.02	0.07	0.02	0.00	0.06	0.02	0.01
5	0.16	0.04	0.01	0.07	0.02	0.00	0.06	0.03	0.00
6	0.17	0.04	0.02	0.06	0.02	0.00	0.04	0.01	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.10	0.05	0.01	0.08	0.02	0.00	0.07	0.02	0.00
2	0.13	0.06	0.01	0.05	0.02	0.00	0.12	0.03	0.01
3	0.07	0.04	0.00	0.05	0.02	0.00	0.04	0.02	0.00
4	0.14	0.06	0.01	0.05	0.02	0.00	0.05	0.02	0.00
5	0.08	0.05	0.00	0.08	0.02	0.01	0.06	0.03	0.00
6	0.12	0.05	0.01	0.06	0.02	0.00	0.08	0.03	0.01

TABLE I-35. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-20.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.01	0.01	0.00			
2				0.01	0.02	0.00			
3	No Samples			0.05	0.02	0.00	Samples		
4	Collected			0.03	0.02	0.00	Archived		
5				0.03	0.01	0.00			
6				0.03	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.09	0.03	0.03	0.03	0.02	0.00			
2	0.11	0.03	0.02	0.03	0.02	0.00			
3	0.20	0.04	0.03	0.02	0.01	0.00	Samples		
4	0.03	0.02	0.01	0.04	0.03	0.00	Archived		
5	0.11	0.03	0.02	0.03	0.02	0.00			
6	0.05	0.02	0.01	0.03	0.01	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.09	0.02	0.00						
2	0.04	0.02	0.00						
3	0.03	0.01	0.00	No Samples			Samples		
4	0.06	0.03	0.01	Collected			Archived		
5	0.04	0.03	0.00						
6	0.07	0.03	0.01						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.16	0.03	0.01	0.03	0.01	0.00			
2	0.05	0.02	0.00	0.02	0.01	0.00			
3	0.05	0.01	0.01	0.02	0.01	0.00	Samples		
4	0.06	0.01	0.00	0.08	0.02	0.00	Archived		
5	0.09	0.02	0.00	0.05	0.02	0.00			
6	0.04	0.04	0.00	0.01	0.01	0.00			

TABLE I-36. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-22.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.02	0.01	0.00			
2				0.10	0.02	0.01			
3	No Samples			0.06	0.02	0.00	Samples		
4	Collected			0.05	0.02	0.00	Archived		
5				0.03	0.02	0.00			
6				0.08	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.07	0.03	0.00	0.08	0.04	0.01			
2	0.24	0.06	0.02	0.07	0.03	0.00			
3	0.12	0.03	0.02	0.06	0.02	0.00	Samples		
4	0.12	0.03	0.02	0.04	0.01	0.00	Archived		
5	0.08	0.02	0.01	0.09	0.03	0.01			
6	0.10	0.02	0.01	0.06	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.14	0.04	0.01						
2	0.03	0.02	0.00						
3	0.10	0.03	0.01	No Samples			Samples		
4	0.09	0.03	0.00	Collected			Archived		
5	0.05	0.03	0.00						
6	0.09	0.03	0.00						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.15	0.07	0.01	0.03	0.01	0.00			
2	0.22	0.07	0.02	0.02	0.01	0.00			
3	0.04	0.04	0.00	0.05	0.02	0.00	Samples		
4	0.18	0.07	0.01	0.05	0.02	0.00	Archived		
5	0.15	0.05	0.01	0.02	0.01	0.00			
6	0.06	0.04	0.00	0.07	0.04	0.01			

TABLE I-37. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-25.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.02	0.00	0.00			
2				0.03	0.01	0.00			
3	No Samples			0.04	0.02	0.00	Samples		
4	Collected			0.05	0.02	0.00	Archived		
5				2.03	0.06	0.00			
6				0.04	0.02	0.00			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.10	0.03	0.01	0.09	0.03	0.01			
2	0.09	0.03	0.01	0.10	0.03	0.00			
3	0.11	0.04	0.01	0.08	0.03	0.00	Samples		
4	0.08	0.03	0.01	0.08	0.02	0.00	Archived		
5	0.09	0.03	0.01	0.05	0.02	0.00			
6	0.07	0.03	0.00	0.06	0.02	0.00			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1									
2									
3	No Data			No Samples			Samples		
4	Available			Collected			Archived		
5									
6									

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.15	0.07	0.01	0.06	0.03	0.00			
2	0.11	0.03	0.00	0.05	0.02	0.00			
3	0.15	0.05	0.01	0.09	0.03	0.01	Samples		
4	0.26	0.08	0.03	0.06	0.02	0.00	Archived		
5	0.09	0.05	0.01	0.08	0.02	0.01			
6	0.11	0.05	0.01	0.06	0.02	0.01			

TABLE I-38. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-28.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.06	0.01	0.00	0.02	0.01	0.00
2				0.04	0.01	0.00	0.03	0.02	0.00
3	No Samples			0.04	0.01	0.00	0.03	0.01	0.00
4	Collected			0.03	0.01	0.00	0.02	0.01	0.00
5				0.06	0.02	0.00	0.55	0.07	0.00
6				0.02	0.01	0.00	0.00	0.01	0.00

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.07	0.04	0.00	0.04	0.03	0.00	0.01	0.01	0.00
2	0.05	0.03	0.00	0.03	0.01	0.00	0.01	0.01	0.00
3	0.25	0.03	0.00	0.07	0.02	0.00	0.06	0.02	0.00
4	0.06	0.03	0.00	0.03	0.01	0.00	0.03	0.01	0.00
5	0.15	0.03	0.00	0.06	0.02	0.00	0.02	0.01	0.00
6	0.17	0.04	0.01	0.03	0.01	0.00	0.05	0.01	0.00

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.03	0.01	0.00	0.02	0.01	0.00
2				0.03	0.01	0.00	0.05	0.01	0.00
3	No Data			0.03	0.01	0.00	0.02	0.00	0.00
4	Available			0.01	0.00	0.00	0.02	0.01	0.00
5				0.01	0.01	0.00	0.03	0.01	0.00
6				0.03	0.02	0.00	0.02	0.01	0.00

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.06	0.02	0.00	0.03	0.01	0.00	0.01	0.00	0.00
2	No Sample			0.01	0.01	0.00	0.02	0.01	0.00
3	0.17	0.03	0.01	0.02	0.01	0.00	0.02	0.01	0.00
4	0.08	0.02	0.01	0.03	0.01	0.00	0.01	0.01	0.00
5	0.07	0.04	0.00	0.03	0.01	0.00	0.01	0.01	0.00
6	0.09	0.03	0.00	0.03	0.02	0.00	0.02	0.01	0.00

TABLE I-39. RESULTS OF CHN ANALYSIS FROM GEORGES BANK BENTHIC MONITORING PROGRAM SITE-SPECIFIC STATION 5-29.

	July 1981			July 1982			July 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1				0.18	0.05	0.02			
2				3.19	0.19	0.03			
3	No Samples			2.52	0.21	0.02	Samples		
4	Collected			0.55	0.09	0.01	Archived		
5				0.09	0.03	0.00			
6				0.17	0.04	0.01			

	November 1981			November 1982			November 1983		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.69	0.05	0.02	0.12	0.04	0.00			
2	0.32	0.06	0.02	0.58	0.11	0.01			
3	0.33	0.06	0.03	0.29	0.08	0.00	Samples		
4	0.39	0.05	0.02	0.19	0.07	0.01	Archived		
5	0.33	0.05	0.02	0.18	0.05	0.01			
6	0.36	0.06	0.03	0.13	0.04	0.01			

	February 1982			February 1983			February 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.26	0.06	0.01						
2	0.62	0.06	0.02						
3	0.41	0.06	0.01	No Samples			Samples		
4	0.45	0.06	0.01	Collected			Archived		
5	0.28	0.06	0.02						
6	0.42	0.05	0.02						

	May 1982			May 1983			June 1984		
	%C	%H	%N	%C	%H	%N	%C	%H	%N
Rep. 1	0.63	0.13	0.04	0.36	0.08	0.02			
2	0.45	0.12	0.03	0.16	0.06	0.01			
3	0.34	0.12	0.03	0.11	0.03	0.02	Samples		
4	0.47	0.11	0.02	0.26	0.06	0.01	Archived		
5	2.15	0.14	0.03	1.09	0.15	0.01			
6	0.44	0.10	0.02	0.16	0.05	0.02			

APPENDIX J

TABLE J-1. SEDIMENT GRAIN SIZE ANALYSIS OF REGIONAL STATIONS, SHOWING AVERAGE PERCENT COMPOSITION AND ONE STANDARD DEVIATION FOR EACH SIZE CLASS MEASURED.*

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 1									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.26 ± 0.12	0.00 ± 0.00	7.14 ± 5.92	37.72 ± 6.80	53.02 ± 12.10	1.66 ± 0.81	0.01 ± 0.01	0.03 ± 0.02	0.04 ± 0.03
M3	0.40 ± 0.42	0.00 ± 0.00	1.32 ± 1.03	47.14 ± 10.24	51.08 ± 10.52	0.00 ± 0.00	0.03 ± 0.02	0.03 ± 0.02	0.05 ± 0.03
M4	0.46 ± 0.24	0.00 ± 0.00	1.66 ± 1.50	29.84 ± 5.76	66.32 ± 4.52	1.66 ± 2.65	0.03 ± 0.04	0.03 ± 0.02	0.06 ± 0.05
M5	0.30 ± 0.15	0.00 ± 0.00	0.83 ± 1.32	33.55 ± 7.51	65.11 ± 7.58	0.17 ± 0.41	0.02 ± 0.02	0.03 ± 0.03	0.05 ± 0.05
M6	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M7	0.41 ± 0.34	0.00 ± 0.00	0.79 ± 0.72	37.44 ± 5.05	59.38 ± 5.46	1.91 ± 0.50	0.06 ± 0.07	0.08 ± 0.07	0.14 ± 0.14
M8	0.50 ± 0.49	0.00 ± 0.00	0.41 ± 0.80	35.33 ± 7.56	61.21 ± 6.56	2.50 ± 0.80	0.02 ± 0.02	0.02 ± 0.01	0.05 ± 0.02
M9	0.45 ± 0.53	0.00 ± 0.00	0.35 ± 0.61	23.62 ± 9.87	70.96 ± 9.99	4.50 ± 1.23	0.04 ± 0.06	0.08 ± 0.04	0.12 ± 0.09
M10	0.67 ± 0.54	0.00 ± 0.00	1.04 ± 1.61	25.81 ± 6.00	68.05 ± 4.67	4.35 ± 1.44	0.05 ± 0.03	0.05 ± 0.03	0.09 ± 0.06
M11	0.32 ± 0.27	0.05 ± 0.12	0.15 ± 0.25	34.18 ± 7.66	59.32 ± 6.32	5.86 ± 2.46	0.05 ± 0.08	0.06 ± 0.04	0.11 ± 0.12
M12	0.45 ± 0.34	0.00 ± 0.00	0.18 ± 0.20	30.39 ± 5.95	66.81 ± 5.79	1.92 ± 0.68	0.08 ± 0.09	0.20 ± 0.21	0.27 ± 0.29
Sta 2									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	2.76 ± 2.56	4.48 ± 3.05	24.50 ± 8.12	60.14 ± 11.68	8.11 ± 2.33	0.00 ± 0.00	0.01 ± 0.00	0.01 ± 0.01	0.02 ± 0.01
M3	1.78 ± 1.71	3.23 ± 4.00	31.20 ± 9.77	50.66 ± 9.53	13.10 ± 2.78	0.00 ± 0.00	0.01 ± 0.00	0.01 ± 0.01	0.02 ± 0.01
M4	1.21 ± 1.03	0.00 ± 0.00	17.80 ± 7.61	64.18 ± 5.84	16.44 ± 2.90	0.00 ± 0.00	0.02 ± 0.01	0.02 ± 0.00	0.03 ± 0.02
M5	1.81 ± 2.67	2.08 ± 2.08	21.08 ± 11.12	64.79 ± 11.68	10.18 ± 3.98	0.00 ± 0.00	0.03 ± 0.01	0.01 ± 0.01	0.04 ± 0.02
M6	3.10 ± 2.48	1.55 ± 2.12	21.34 ± 13.97	56.84 ± 14.03	15.71 ± 3.95	1.33 ± 0.92	0.08 ± 0.06	0.06 ± 0.06	0.14 ± 0.11
M7	2.57 ± 1.92	5.06 ± 5.18	31.50 ± 6.04	50.02 ± 10.16	7.87 ± 4.33	1.21 ± 0.41	0.04 ± 0.03	0.06 ± 0.03	0.11 ± 0.05
M8	1.99 ± 2.00	1.91 ± 2.10	31.24 ± 9.51	51.38 ± 9.96	12.26 ± 3.90	1.14 ± 0.53	0.03 ± 0.03	0.07 ± 0.05	0.10 ± 0.08
M9	1.24 ± 0.85	0.23 ± 0.56	14.56 ± 7.42	61.62 ± 4.27	19.61 ± 5.60	2.58 ± 0.77	0.06 ± 0.03	0.09 ± 0.02	0.14 ± 0.04
M10	2.16 ± 1.01	3.27 ± 1.48	32.51 ± 4.42	48.70 ± 5.59	11.72 ± 0.29	1.52 ± 0.92	0.08 ± 0.04	0.06 ± 0.02	0.13 ± 0.06
M11	0.58 ± 0.17	0.10 ± 0.15	38.86 ± 7.97	49.61 ± 7.91	8.52 ± 2.55	2.23 ± 1.73	0.06 ± 0.06	0.06 ± 0.05	0.12 ± 0.11
M12	2.25 ± 2.24	0.21 ± 0.34	27.91 ± 5.94	55.49 ± 6.25	13.42 ± 2.33	0.56 ± 0.33	0.09 ± 0.04	0.08 ± 0.04	0.17 ± 0.08
Sta 3									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.45 ± 1.14	0.00 ± 0.00	3.10 ± 2.79	41.06 ± 13.70	53.14 ± 16.61	0.98 ± 1.08	0.51 ± 0.88	0.10 ± 0.05	0.61 ± 0.89
M3	2.63 ± 2.59	0.00 ± 0.00	1.62 ± 0.80	38.97 ± 4.20	54.53 ± 4.43	1.61 ± 2.59	0.34 ± 0.15	0.21 ± 0.03	0.55 ± 0.14
M4	6.84 ± 6.34	0.00 ± 0.00	0.65 ± 1.60	36.17 ± 4.91	49.93 ± 4.88	5.84 ± 3.30	0.35 ± 0.18	0.23 ± 0.11	0.57 ± 0.23
M5	4.23 ± 1.64	0.00 ± 0.00	5.34 ± 2.45	48.73 ± 4.27	40.08 ± 5.24	0.16 ± 0.40	0.92 ± 0.24	0.54 ± 0.16	1.46 ± 0.39
M6	4.75 ± 1.86	0.00 ± 0.00	0.60 ± 0.79	34.63 ± 7.04	54.58 ± 7.41	3.56 ± 2.49	1.11 ± 0.22	0.77 ± 0.17	1.88 ± 0.32
M7	3.51 ± 2.03	0.09 ± 0.21	3.22 ± 1.14	40.45 ± 5.31	48.33 ± 4.34	2.14 ± 0.65	1.35 ± 0.26	0.91 ± 0.12	2.25 ± 0.32
M8	5.29 ± 5.41	0.00 ± 0.00	2.54 ± 0.57	40.26 ± 4.11	46.65 ± 6.05	3.21 ± 0.86	1.29 ± 0.51	0.77 ± 0.14	2.07 ± 0.58
M9	3.37 ± 2.67	0.00 ± 0.00	0.90 ± 0.97	36.54 ± 4.95	52.11 ± 3.50	4.82 ± 0.83	1.38 ± 0.34	0.88 ± 0.14	2.26 ± 0.48
M10	2.03 ± 1.46	0.00 ± 0.00	1.99 ± 1.31	33.33 ± 3.07	56.50 ± 3.84	3.66 ± 1.59	1.59 ± 0.48	0.92 ± 0.22	2.52 ± 0.66
M11	5.64 ± 3.67	0.00 ± 0.00	0.20 ± 0.38	37.40 ± 5.04	52.19 ± 6.40	2.10 ± 1.87	1.66 ± 0.24	0.82 ± 0.16	2.48 ± 0.38
M12	6.08 ± 4.29	0.00 ± 0.00	3.87 ± 2.79	42.21 ± 4.03	43.30 ± 4.30	2.26 ± 0.80	1.43 ± 0.49	0.84 ± 0.28	2.28 ± 0.74

TABLE J-1. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 4									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.07 ± 0.07	0.00 ± 0.00	0.00 ± 0.00	2.83 ± 2.48	91.60 ± 3.72	5.50 ± 2.53	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.01
M3	0.21 ± 0.27	0.00 ± 0.00	0.00 ± 0.00	11.30 ± 3.26	73.76 ± 8.29	14.63 ± 8.64	0.31 ± 0.63	0.10 ± 0.15	0.41 ± 0.78
M4	0.16 ± 0.12	0.00 ± 0.00	0.33 ± 0.81	5.98 ± 3.78	75.51 ± 8.58	17.96 ± 6.42	0.03 ± 0.03	0.02 ± 0.01	0.05 ± 0.03
M5	0.09 ± 0.10	0.00 ± 0.00	0.25 ± 0.50	7.74 ± 6.74	85.82 ± 6.98	5.99 ± 0.80	0.07 ± 0.02	0.03 ± 0.02	0.10 ± 0.03
M6	0.04 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.28 ± 0.41	81.54 ± 1.95	17.72 ± 2.17	0.06 ± 0.06	0.26 ± 0.03	0.33 ± 0.07
M7	0.37 ± 0.51	0.00 ± 0.00	0.00 ± 0.00	6.72 ± 1.84	82.16 ± 2.83	9.98 ± 1.43	0.32 ± 0.28	0.46 ± 0.26	0.78 ± 0.54
M8	0.16 ± 0.19	0.00 ± 0.00	0.00 ± 0.00	6.62 ± 2.46	82.01 ± 3.03	10.71 ± 0.86	0.16 ± 0.08	0.34 ± 0.04	0.50 ± 0.10
M9	0.15 ± 0.14	0.00 ± 0.00	0.00 ± 0.00	3.14 ± 1.86	78.90 ± 1.17	17.46 ± 2.27	0.15 ± 0.04	0.20 ± 0.06	0.35 ± 0.08
M10	0.23 ± 0.18	0.00 ± 0.00	0.00 ± 0.00	0.56 ± 1.04	81.83 ± 2.90	17.15 ± 2.69	0.07 ± 0.04	0.17 ± 0.08	0.24 ± 0.08
M11	0.27 ± 0.32	0.00 ± 0.00	0.07 ± 0.16	0.85 ± 0.43	87.48 ± 3.79	10.96 ± 4.16	0.22 ± 0.10	0.19 ± 0.05	0.41 ± 0.08
M12	0.04 ± 0.04	0.00 ± 0.00	0.07 ± 0.16	9.57 ± 6.62	80.28 ± 5.08	9.53 ± 2.51	0.17 ± 0.05	0.31 ± 0.09	0.48 ± 0.14
Sta 6									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.23 ± 0.22	0.33 ± 0.80	3.25 ± 2.76	32.12 ± 5.50	49.97 ± 4.46	11.33 ± 2.88	1.00 ± 0.35	0.50 ± 0.16	1.50 ± 0.50
M3	0.80 ± 0.44	0.00 ± 0.00	2.30 ± 2.22	39.03 ± 2.96	42.16 ± 5.92	15.30 ± 4.72	0.93 ± 0.34	0.28 ± 0.11	1.21 ± 0.43
M4	0.73 ± 0.63	0.00 ± 0.00	3.26 ± 2.74	35.50 ± 4.11	47.13 ± 5.38	12.27 ± 1.13	0.82 ± 0.24	0.30 ± 0.08	1.12 ± 0.30
M5	0.97 ± 1.18	0.00 ± 0.00	2.23 ± 2.75	33.45 ± 5.56	41.83 ± 4.18	19.06 ± 7.19	2.07 ± 0.70	0.89 ± 0.23	2.96 ± 0.91
M6	0.79 ± 0.88	0.00 ± 0.00	0.00 ± 0.00	21.83 ± 3.14	54.58 ± 2.26	18.62 ± 2.49	2.71 ± 0.33	1.47 ± 0.13	4.18 ± 0.42
M7	0.96 ± 1.18	0.20 ± 0.22	6.09 ± 3.26	35.49 ± 2.71	40.23 ± 4.90	13.26 ± 1.08	2.61 ± 0.51	1.14 ± 0.25	3.76 ± 0.75
M8	0.91 ± 1.42	0.00 ± 0.00	2.95 ± 2.20	35.48 ± 3.54	42.68 ± 2.62	14.54 ± 1.39	2.34 ± 0.69	1.10 ± 0.30	3.43 ± 0.96
M9	1.00 ± 1.03	0.00 ± 0.00	0.45 ± 0.41	24.89 ± 5.51	50.29 ± 3.09	20.10 ± 3.54	2.17 ± 0.48	1.10 ± 0.20	3.27 ± 0.65
M10	0.46 ± 0.24	0.00 ± 0.00	2.27 ± 2.08	30.75 ± 2.68	44.09 ± 2.65	18.91 ± 1.87	2.68 ± 0.43	0.86 ± 0.45	3.54 ± 0.70
M11	0.52 ± 0.35	0.00 ± 0.00	0.29 ± 0.46	29.41 ± 4.81	49.04 ± 4.90	17.18 ± 1.87	2.65 ± 0.84	0.83 ± 0.32	3.48 ± 1.13
M12	1.71 ± 1.71	0.10 ± 0.16	2.89 ± 3.07	33.23 ± 4.99	46.11 ± 4.32	12.90 ± 2.21	2.17 ± 0.22	0.90 ± 0.08	3.06 ± 0.27
Sta 7									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	9.84 ± 3.11	8.32 ± 4.26	30.78 ± 15.66	27.98 ± 4.92	14.99 ± 8.52	6.98 ± 7.20	0.94 ± 0.47	0.21 ± 0.06	1.15 ± 0.52
M3	8.69 ± 8.96	9.70 ± 7.94	32.54 ± 11.58	24.49 ± 8.86	19.84 ± 11.59	3.27 ± 5.07	1.21 ± 0.28	0.29 ± 0.06	1.50 ± 0.31
M4	8.16 ± 9.24	1.30 ± 2.08	29.30 ± 5.38	37.73 ± 9.63	16.23 ± 4.87	5.72 ± 3.38	1.28 ± 0.29	0.28 ± 0.08	1.56 ± 0.34
M5	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M6	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M9	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M11	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M12	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

TABLE J-1. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 7A									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M3	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M4	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M5	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	1.76 ± 1.78	12.94 ± 1.42	62.40 ± 6.10	19.18 ± 3.90	3.74 ± 0.55	22.92 ± 4.44
M6	0.03 ± 0.04	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	10.68 ± 10.17	61.78 ± 9.72	23.37 ± 1.16	4.14 ± 0.49	27.51 ± 0.98
M7	0.04 ± 0.07	0.00 ± 0.00	0.00 ± 0.00	0.30 ± 0.55	9.94 ± 5.82	58.92 ± 7.82	26.87 ± 11.66	3.93 ± 0.74	30.80 ± 12.36
M8	0.01 ± 0.02	0.00 ± 0.00	0.00 ± 0.00	0.08 ± 0.20	11.05 ± 3.71	62.91 ± 2.93	22.08 ± 4.88	3.87 ± 0.22	25.95 ± 4.99
M9	0.04 ± 0.05	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	7.59 ± 2.25	64.45 ± 4.42	24.50 ± 5.90	3.43 ± 0.41	27.93 ± 6.02
M10	0.08 ± 0.06	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	7.62 ± 1.92	66.32 ± 2.45	22.45 ± 1.31	3.53 ± 0.59	25.98 ± 1.64
M11	0.03 ± 0.02	0.00 ± 0.00	0.00 ± 0.00	0.32 ± 0.19	1.20 ± 1.33	68.16 ± 4.35	27.60 ± 3.23	2.70 ± 0.45	30.30 ± 3.65
M12	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.08 ± 0.20	8.43 ± 3.12	56.52 ± 3.37	28.80 ± 2.84	6.32 ± 0.67	35.12 ± 3.45
Sta 8									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.12 ± 0.14	0.33 ± 0.81	27.46 ± 3.86	43.52 ± 6.15	22.17 ± 2.02	5.79 ± 2.76	0.40 ± 0.06	0.14 ± 0.04	0.54 ± 0.09
M3	0.07 ± 0.06	0.33 ± 0.81	24.83 ± 11.75	48.96 ± 3.64	21.33 ± 5.69	3.80 ± 4.45	0.52 ± 0.24	0.18 ± 0.05	0.70 ± 0.28
M4	0.10 ± 0.11	0.33 ± 0.81	28.63 ± 11.62	41.05 ± 4.06	21.35 ± 6.41	7.94 ± 3.09	0.45 ± 0.10	0.14 ± 0.03	0.59 ± 0.12
M5	0.08 ± 0.11	0.00 ± 0.00	21.00 ± 4.10	53.18 ± 4.57	21.82 ± 4.60	2.46 ± 0.81	1.10 ± 0.49	0.36 ± 0.16	1.46 ± 0.59
M6	0.15 ± 0.18	0.00 ± 0.00	13.65 ± 4.38	50.02 ± 1.42	26.77 ± 3.60	7.40 ± 2.25	1.41 ± 0.33	0.62 ± 0.10	2.03 ± 0.39
M7	0.09 ± 0.10	0.72 ± 0.67	23.52 ± 5.35	46.13 ± 3.03	21.30 ± 4.20	6.16 ± 1.44	1.58 ± 0.42	0.51 ± 0.10	2.09 ± 0.43
M8	0.04 ± 0.02	0.31 ± 0.56	20.80 ± 8.98	44.80 ± 3.60	24.30 ± 5.69	7.62 ± 2.74	1.42 ± 0.44	0.72 ± 0.24	2.13 ± 0.62
M9	0.14 ± 0.20	0.00 ± 0.00	14.06 ± 4.54	48.67 ± 1.79	26.45 ± 3.09	8.62 ± 1.27	1.56 ± 0.30	0.50 ± 0.10	2.06 ± 0.39
M10	0.27 ± 0.39	0.16 ± 0.35	12.64 ± 3.48	44.28 ± 2.86	29.65 ± 1.79	10.89 ± 0.79	1.61 ± 0.14	0.51 ± 0.07	2.12 ± 0.19
M11	0.10 ± 0.06	0.06 ± 0.16	13.80 ± 7.67	51.32 ± 2.70	23.90 ± 3.26	8.50 ± 2.52	2.02 ± 0.72	0.32 ± 0.12	2.34 ± 0.72
M12	0.66 ± 1.10	0.87 ± 1.81	33.15 ± 9.20	39.90 ± 4.84	18.71 ± 4.76	4.41 ± 1.41	1.68 ± 0.52	0.61 ± 0.16	2.29 ± 0.67
Sta 9									
M1	N.S.	N S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.13 ± 0.10	0.00 ± 0.00	3.14 ± 3.78	40.24 ± 3.42	43.04 ± 5.70	12.53 ± 4.78	0.71 ± 0.09	0.23 ± 0.05	0.94 ± 0.14
M3	0.20 ± 0.23	0.00 ± 0.00	1.80 ± 1.78	41.19 ± 8.14	43.30 ± 8.70	12.13 ± 11.02	1.13 ± 0.58	0.23 ± 0.09	1.36 ± 0.66
M4	0.17 ± 0.19	0.00 ± 0.00	7.40 ± 5.58	34.71 ± 6.85	38.97 ± 4.25	17.60 ± 5.08	0.91 ± 0.29	0.24 ± 0.04	1.15 ± 0.33
M5	0.00 ± 0.01	0.00 ± 0.00	1.14 ± 0.96	27.81 ± 6.66	50.36 ± 3.52	18.78 ± 5.39	1.50 ± 0.56	0.40 ± 0.08	1.91 ± 0.62
M6	0.10 ± 0.17	0.00 ± 0.00	0.20 ± 0.31	33.00 ± 7.47	44.22 ± 4.64	19.21 ± 3.88	2.25 ± 0.56	1.04 ± 0.16	3.29 ± 0.71
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.14 ± 0.25	0.00 ± 0.00	1.06 ± 1.08	34.30 ± 7.84	40.96 ± 5.82	20.54 ± 2.91	2.24 ± 0.37	0.78 ± 0.18	3.03 ± 0.44
M9	0.23 ± 0.30	0.00 ± 0.00	0.10 ± 0.24	28.32 ± 9.99	44.44 ± 5.65	23.39 ± 5.18	2.58 ± 0.67	0.94 ± 0.20	3.52 ± 0.81
M10	0.08 ± 0.08	0.00 ± 0.00	1.50 ± 1.46	24.66 ± 1.99	46.59 ± 1.79	24.25 ± 1.62	2.28 ± 0.70	0.64 ± 0.30	2.92 ± 0.72
M11	0.17 ± 0.14	0.05 ± 0.12	0.71 ± 0.65	28.91 ± 5.78	46.63 ± 5.28	20.06 ± 2.91	2.77 ± 0.69	0.72 ± 0.10	3.49 ± 0.75
M12	0.03 ± 0.02	0.03 ± 0.08	1.42 ± 2.54	32.00 ± 6.24	42.28 ± 3.36	20.19 ± 5.11	3.09 ± 0.69	0.95 ± 0.19	4.04 ± 0.87

TABLE J-1. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 10									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.57 ± 1.35	0.00 ± 0.00	2.62 ± 1.95	45.92 ± 6.94	48.50 ± 7.05	1.31 ± 1.60	0.04 ± 0.04	0.01 ± 0.01	0.06 ± 0.04
M3	1.48 ± 1.36	0.33 ± 0.81	6.75 ± 6.39	43.82 ± 10.78	43.79 ± 11.32	3.77 ± 4.42	0.04 ± 0.06	0.02 ± 0.02	0.06 ± 0.08
M4	3.15 ± 3.64	0.94 ± 1.03	7.24 ± 11.25	39.66 ± 7.46	47.97 ± 16.67	0.96 ± 2.35	0.05 ± 0.04	0.02 ± 0.01	0.08 ± 0.05
M5	2.95 ± 3.90	2.60 ± 3.69	5.28 ± 6.54	38.30 ± 12.70	49.42 ± 16.24	1.11 ± 1.27	0.13 ± 0.17	0.06 ± 0.06	0.20 ± 0.22
M6	3.28 ± 2.58	0.00 ± 0.00	0.08 ± 0.19	35.01 ± 6.95	55.97 ± 6.29	5.82 ± 2.35	0.08 ± 0.07	0.11 ± 0.05	0.19 ± 0.12
M7	3.84 ± 3.63	1.44 ± 1.46	19.54 ± 27.22	39.19 ± 12.46	33.28 ± 19.44	2.54 ± 1.94	0.11 ± 0.13	0.06 ± 0.08	0.17 ± 0.20
M8	1.21 ± 0.56	0.59 ± 1.45	1.88 ± 4.13	41.21 ± 8.11	50.99 ± 11.32	4.03 ± 1.09	0.06 ± 0.02	0.07 ± 0.02	0.13 ± 0.04
M9	0.94 ± 0.63	0.00 ± 0.00	0.44 ± 0.54	41.04 ± 11.76	52.20 ± 9.90	5.29 ± 1.90	0.03 ± 0.03	0.06 ± 0.02	0.09 ± 0.04
M10	1.17 ± 0.69	0.30 ± 0.73	2.30 ± 5.64	37.06 ± 9.52	53.36 ± 13.30	5.40 ± 1.73	0.26 ± 0.49	0.17 ± 0.26	0.43 ± 0.75
M11	0.29 ± 0.22	0.10 ± 0.15	18.98 ± 13.88	57.26 ± 5.42	21.20 ± 6.90	2.19 ± 3.31	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01
M12	1.48 ± 1.13	0.20 ± 0.17	12.73 ± 10.74	50.18 ± 5.35	33.32 ± 10.17	1.98 ± 0.79	0.06 ± 0.04	0.06 ± 0.04	0.12 ± 0.08
Sta 11									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.04 ± 0.05	0.00 ± 0.00	0.00 ± 0.00	3.16 ± 1.83	42.08 ± 14.19	54.54 ± 13.60	0.11 ± 0.04	0.06 ± 0.03	0.17 ± 0.07
M3	0.13 ± 0.11	0.00 ± 0.00	0.00 ± 0.00	4.27 ± 2.31	60.00 ± 6.41	34.40 ± 7.89	0.89 ± 1.14	0.32 ± 0.24	1.21 ± 1.37
M4	0.10 ± 0.11	0.00 ± 0.00	0.00 ± 0.00	3.95 ± 3.30	46.06 ± 7.47	48.68 ± 6.74	0.84 ± 0.38	0.37 ± 0.13	1.22 ± 0.49
M5	0.01 ± 0.02	0.00 ± 0.00	0.00 ± 0.00	1.14 ± 1.30	55.32 ± 4.63	41.72 ± 3.47	1.21 ± 0.46	0.53 ± 0.31	1.74 ± 0.68
M6	0.05 ± 0.06	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	53.51 ± 4.15	44.06 ± 3.86	1.45 ± 0.38	0.92 ± 0.18	2.38 ± 0.55
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.02 ± 0.04	0.00 ± 0.00	1.34 ± 3.29	15.56 ± 35.97	44.11 ± 21.81	36.04 ± 17.85	1.58 ± 0.72	1.38 ± 0.44	2.96 ± 1.12
M9	0.07 ± 0.18	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	45.70 ± 3.02	51.83 ± 2.80	1.34 ± 0.41	1.07 ± 0.21	2.40 ± 0.60
M10	0.02 ± 0.02	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	52.85 ± 3.29	45.32 ± 3.08	1.02 ± 0.25	0.79 ± 0.12	1.81 ± 0.34
M11	0.11 ± 0.19	0.00 ± 0.00	0.00 ± 0.00	0.57 ± 0.41	54.61 ± 3.03	42.92 ± 3.13	1.01 ± 0.17	0.77 ± 0.08	1.78 ± 0.21
M12	0.07 ± 0.07	0.00 ± 0.00	0.00 ± 0.00	0.41 ± 0.17	59.37 ± 4.70	37.89 ± 4.59	1.20 ± 0.26	1.06 ± 0.14	2.26 ± 0.34
Sta 12									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.56 ± 0.74	0.81 ± 2.00	33.02 ± 11.33	45.70 ± 6.95	16.98 ± 4.36	1.32 ± 3.22	1.23 ± 0.39	0.35 ± 0.11	1.58 ± 0.49
M3	1.72 ± 2.07	1.28 ± 1.55	33.14 ± 8.74	43.70 ± 8.20	18.32 ± 2.39	0.00 ± 0.00	1.40 ± 0.55	0.48 ± 0.10	1.88 ± 0.65
M4	0.09 ± 0.10	0.00 ± 0.00	28.10 ± 5.64	45.14 ± 4.33	17.32 ± 4.50	7.52 ± 1.46	1.48 ± 0.44	0.31 ± 0.09	1.79 ± 0.51
M5	0.76 ± 0.98	1.12 ± 1.53	19.89 ± 9.33	52.26 ± 4.95	20.46 ± 7.57	2.74 ± 1.54	2.15 ± 0.66	0.64 ± 0.18	2.79 ± 0.83
M6	0.34 ± 0.48	0.00 ± 0.00	15.68 ± 3.84	47.86 ± 2.42	25.41 ± 2.03	6.08 ± 0.74	3.34 ± 0.25	1.28 ± 0.21	4.62 ± 0.41
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.07 ± 0.11	0.00 ± 0.00	19.94 ± 3.88	45.28 ± 2.86	23.83 ± 2.91	6.53 ± 2.14	3.10 ± 0.84	1.26 ± 0.25	4.35 ± 1.07
M9	1.72 ± 3.72	0.10 ± 0.23	15.76 ± 5.28	46.11 ± 4.27	24.85 ± 3.43	6.83 ± 1.00	3.54 ± 0.94	1.10 ± 0.16	4.63 ± 1.08
M10	0.41 ± 0.54	0.65 ± 0.51	19.15 ± 5.32	43.86 ± 6.22	24.24 ± 3.07	7.90 ± 0.94	2.94 ± 0.76	0.88 ± 0.12	3.82 ± 0.88
M11	0.16 ± 0.10	0.11 ± 0.18	13.69 ± 3.55	51.37 ± 5.54	23.58 ± 2.86	6.60 ± 1.86	3.42 ± 0.93	1.08 ± 0.12	4.50 ± 0.98
M12	0.13 ± 0.12	0.67 ± 1.20	35.94 ± 4.56	33.49 ± 3.89	19.10 ± 1.98	4.94 ± 0.42	4.32 ± 0.47	1.43 ± 0.17	5.76 ± 0.63

TABLE J-1. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 13									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.19 ± 0.29	0.00 ± 0.00	5.31 ± 5.89	8.10 ± 3.50	22.98 ± 9.87	38.05 ± 6.35	22.09 ± 4.13	3.29 ± 1.09	25.38 ± 4.89
M3	0.28 ± 0.40	0.64 ± 1.56	3.15 ± 2.91	7.24 ± 1.76	18.56 ± 5.09	44.24 ± 3.75	22.83 ± 5.41	3.06 ± 1.03	25.90 ± 6.34
M4	0.02 ± 0.04	0.00 ± 0.00	0.72 ± 0.79	7.72 ± 3.02	14.10 ± 3.01	49.94 ± 4.17	23.60 ± 2.93	3.92 ± 0.58	27.52 ± 3.31
M5	0.00 ± 0.00	0.00 ± 0.00	0.10 ± 0.24	0.70 ± 0.79	9.27 ± 3.79	51.88 ± 4.31	32.92 ± 4.15	5.13 ± 1.11	38.05 ± 4.83
M6	0.02 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	4.76 ± 3.91	53.71 ± 1.90	34.35 ± 2.84	6.62 ± 0.65	40.97 ± 3.24
M7	0.06 ± 0.07	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	8.12 ± 2.58	48.96 ± 3.78	35.62 ± 3.76	7.24 ± 0.69	42.86 ± 3.74
M8	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.17 ± 0.28	6.65 ± 1.64	47.28 ± 4.37	38.97 ± 3.13	6.93 ± 0.52	45.90 ± 3.28
M9	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	5.22 ± 0.61	53.33 ± 2.80	34.80 ± 2.25	6.67 ± 0.60	41.67 ± 2.47
M10	0.06 ± 0.06	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	5.02 ± 2.08	51.86 ± 1.40	38.72 ± 2.46	4.32 ± 0.59	43.04 ± 2.24
M11	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.70 ± 1.33	57.34 ± 3.59	34.91 ± 3.88	7.05 ± 2.15	41.96 ± 2.45
M12	0.02 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.74 ± 1.49	6.94 ± 3.71	44.57 ± 4.69	38.38 ± 5.21	9.34 ± 1.37	47.72 ± 6.53
Sta 13A									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M3	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M4	0.03 ± 0.05	0.00 ± 0.00	0.00 ± 0.00	2.46 ± 1.51	4.17 ± 3.51	11.15 ± 2.46	70.73 ± 6.48	11.46 ± 1.33	82.20 ± 6.03
M5	0.02 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.40 ± 0.44	3.46 ± 3.42	6.54 ± 2.18	83.88 ± 1.97	7.40 ± 1.43	91.28 ± 1.12
M6	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	6.86 ± 0.43	80.33 ± 1.59	12.81 ± 1.58	93.14 ± 0.44
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	4.69 ± 1.18	83.44 ± 5.05	11.87 ± 4.73	95.31 ± 1.18
M9	0.01 ± 0.02	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	4.35 ± 1.60	83.52 ± 2.48	12.12 ± 1.27	95.64 ± 1.62
M10	0.05 ± 0.04	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	5.67 ± 0.63	88.86 ± 0.45	5.41 ± 0.32	94.27 ± 0.66
M11	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	5.49 ± 1.40	81.98 ± 9.10	12.53 ± 8.34	94.51 ± 1.40
M12	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	4.23 ± 0.54	77.86 ± 1.65	17.90 ± 1.50	95.76 ± 0.53
Sta 14									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	2.35 ± 1.80	5.40 ± 7.54	56.70 ± 12.55	31.4 ± 6.55	1.47 ± 3.61	0.74 ± 1.80	1.32 ± 1.93	0.60 ± 0.83	1.92 ± 2.76
M3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
M4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
M5	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M6	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M9	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M11	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M12	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

TABLE J-1. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 14A									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M3	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M4	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M5	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.13 ± 0.33	2.15 ± 0.61	7.80 ± 1.86	73.76 ± 4.00	16.14 ± 3.15	89.91 ± 1.68
M6	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	10.88 ± 1.51	68.43 ± 1.46	20.69 ± 0.91	89.12 ± 1.51
M7	0.03 ± 0.06	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	10.82 ± 1.92	65.19 ± 2.92	23.96 ± 1.44	89.16 ± 1.89
M8	0.79 ± 1.71	0.13 ± 0.32	0.00 ± 0.00	0.66 ± 1.60	0.00 ± 0.00	9.96 ± 2.16	70.02 ± 6.18	18.44 ± 3.55	88.47 ± 2.99
M9	0.42 ± 0.99	0.13 ± 0.32	0.26 ± 0.64	0.52 ± 1.28	1.06 ± 1.64	7.86 ± 3.27	66.64 ± 3.94	23.11 ± 4.47	89.75 ± 4.78
M10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M11	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M12	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Sta 15									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	16.92 ± 19.69	0.21 ± 0.51	5.32 ± 4.86	45.01 ± 12.41	32.91 ± 9.26	0.41 ± 1.01	0.05 ± 0.10	0.01 ± 0.00	0.06 ± 0.10
M3	3.11 ± 3.06	1.52 ± 3.72	3.44 ± 4.23	62.60 ± 7.94	29.40 ± 8.82	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.00
M4	4.13 ± 4.74	0.00 ± 0.00	3.78 ± 2.99	59.64 ± 8.24	32.47 ± 5.51	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01	0.01 ± 0.01
M5	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M6	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M9	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M10	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M11	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M12	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Sta 16									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	4.13 ± 1.97	14.26 ± 10.27	41.16 ± 9.09	33.08 ± 12.64	7.19 ± 3.96	0.00 ± 0.00	0.12 ± 0.05	0.06 ± 0.02	0.18 ± 0.05
M3	1.29 ± 2.02	12.00 ± 7.35	46.03 ± 7.05	33.86 ± 9.56	7.55 ± 1.95	0.00 ± 0.00	0.10 ± 0.05	0.12 ± 0.03	0.22 ± 0.06
M4	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M5	1.10 ± 0.59	12.07 ± 11.79	43.63 ± 11.74	36.13 ± 15.42	6.58 ± 5.89	0.00 ± 0.00	0.32 ± 0.30	0.16 ± 0.09	0.49 ± 0.39
M6	1.84 ± 2.07	2.78 ± 2.75	33.10 ± 5.43	44.64 ± 6.22	15.74 ± 3.20	0.80 ± 0.99	0.71 ± 0.29	0.40 ± 0.09	1.10 ± 0.37
M7	1.06 ± 0.74	6.28 ± 2.92	38.82 ± 8.98	40.04 ± 7.19	12.72 ± 5.06	0.66 ± 0.64	0.34 ± 0.24	0.15 ± 0.16	0.49 ± 0.39
M8	0.98 ± 0.63	5.89 ± 2.74	42.64 ± 2.85	38.05 ± 3.43	10.19 ± 2.13	1.55 ± 1.27	0.47 ± 0.09	0.24 ± 0.06	0.71 ± 0.14
M9	0.74 ± 0.44	5.13 ± 3.33	37.64 ± 5.49	42.84 ± 6.61	11.47 ± 1.94	1.28 ± 0.72	0.57 ± 0.24	0.36 ± 0.07	0.93 ± 0.31
M10	1.94 ± 1.30	8.09 ± 2.85	34.51 ± 2.11	38.92 ± 2.02	12.66 ± 2.31	2.88 ± 1.31	0.67 ± 0.24	0.33 ± 0.07	1.00 ± 0.31
M11	1.34 ± 0.74	5.34 ± 4.66	50.02 ± 4.09	33.54 ± 7.07	8.22 ± 2.09	0.77 ± 1.39	0.52 ± 0.23	0.26 ± 0.08	0.79 ± 0.30
M12	1.16 ± 0.85	9.45 ± 8.22	39.29 ± 8.02	33.74 ± 7.73	13.75 ± 7.92	1.52 ± 1.45	0.69 ± 0.17	0.42 ± 0.09	1.12 ± 0.25

TABLE J-1. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 17									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	2.36 ± 1.66	14.50 ± 6.55	50.92 ± 6.68	31.11 ± 6.43	0.97 ± 1.62	0.00 ± 0.00	0.09 ± 0.02	0.07 ± 0.01	0.16 ± 0.03
M3	1.60 ± 0.93	3.43 ± 2.13	42.57 ± 7.06	40.78 ± 4.61	11.44 ± 3.02	0.00 ± 0.00	0.12 ± 0.12	0.06 ± 0.04	0.18 ± 0.17
M4	1.14 ± 1.18	0.64 ± 1.58	24.30 ± 13.02	51.06 ± 4.73	22.78 ± 12.67	0.00 ± 0.00	0.05 ± 0.04	0.04 ± 0.02	0.09 ± 0.06
M5	1.40 ± 1.06	1.49 ± 1.37	37.02 ± 9.14	47.77 ± 6.94	11.97 ± 3.13	0.16 ± 0.39	0.13 ± 0.11	0.08 ± 0.07	0.21 ± 0.18
M6	1.20 ± 0.43	0.00 ± 0.00	32.40 ± 5.86	47.45 ± 3.40	17.48 ± 5.28	1.03 ± 0.76	0.30 ± 0.21	0.15 ± 0.17	0.45 ± 0.38
M7	1.58 ± 0.92	3.58 ± 1.03	41.71 ± 4.58	41.32 ± 4.14	10.69 ± 2.25	0.74 ± 0.41	0.26 ± 0.21	0.14 ± 0.11	0.41 ± 0.31
M8	1.96 ± 1.19	2.21 ± 1.45	42.84 ± 5.82	40.10 ± 5.27	10.48 ± 1.93	1.92 ± 0.54	0.30 ± 0.17	0.19 ± 0.08	0.49 ± 0.24
M9	2.30 ± 1.96	0.58 ± 0.76	32.98 ± 8.95	46.74 ± 4.96	14.28 ± 3.99	2.18 ± 0.34	0.57 ± 0.32	0.40 ± 0.18	0.98 ± 0.50
M10	1.47 ± 1.01	2.33 ± 1.48	28.48 ± 5.07	45.49 ± 6.34	18.28 ± 2.88	3.23 ± 1.43	0.45 ± 0.31	0.26 ± 0.12	0.71 ± 0.43
M11	1.46 ± 1.50	0.51 ± 0.33	43.77 ± 6.25	41.97 ± 5.39	10.08 ± 2.67	1.87 ± 2.13	0.19 ± 0.27	0.17 ± 0.13	0.36 ± 0.40
M12	0.91 ± 0.76	3.74 ± 3.52	43.77 ± 4.79	39.87 ± 6.26	10.65 ± 1.34	0.68 ± 0.38	0.20 ± 0.13	0.16 ± 0.11	0.36 ± 0.24
Sta 18									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.28 ± 0.35	0.00 ± 0.00	5.98 ± 3.50	52.81 ± 3.96	40.85 ± 2.68	0.00 ± 0.00	0.14 ± 0.05	0.09 ± 0.02	0.23 ± 0.06
M3	0.83 ± 1.26	0.00 ± 0.00	0.00 ± 0.00	60.61 ± 4.09	39.02 ± 4.12	0.00 ± 0.00	0.12 ± 0.02	0.10 ± 0.02	0.22 ± 0.03
M4	0.57 ± 0.87	0.00 ± 0.00	0.33 ± 0.81	47.33 ± 3.71	51.21 ± 3.55	0.33 ± 0.81	0.12 ± 0.04	0.06 ± 0.02	0.18 ± 0.06
M5	0.25 ± 0.38	0.00 ± 0.00	0.00 ± 0.00	48.45 ± 5.12	50.42 ± 5.04	0.33 ± 0.52	0.29 ± 0.11	0.25 ± 0.12	0.54 ± 0.23
M6	0.28 ± 0.39	0.00 ± 0.00	0.00 ± 0.00	40.11 ± 5.42	56.72 ± 5.45	2.07 ± 0.58	0.46 ± 0.14	0.35 ± 0.11	0.82 ± 0.23
M7	0.19 ± 0.10	0.00 ± 0.00	1.02 ± 0.70	49.04 ± 3.21	47.40 ± 4.14	1.63 ± 0.47	0.42 ± 0.10	0.33 ± 0.07	0.75 ± 0.15
M8	0.34 ± 0.27	0.00 ± 0.00	0.20 ± 0.33	45.94 ± 4.78	50.65 ± 5.01	2.16 ± 0.93	0.42 ± 0.15	0.30 ± 0.13	0.72 ± 0.27
M9	1.05 ± 1.79	0.00 ± 0.00	0.82 ± 0.20	45.45 ± 3.22	50.76 ± 3.98	1.88 ± 0.43	0.42 ± 0.15	0.37 ± 0.07	0.80 ± 0.20
M10	0.26 ± 0.27	0.00 ± 0.00	0.10 ± 0.24	37.93 ± 3.95	57.46 ± 3.86	3.46 ± 0.84	0.39 ± 0.17	0.41 ± 0.13	0.80 ± 0.19
M11	0.53 ± 0.40	0.07 ± 0.16	0.25 ± 0.38	50.14 ± 1.54	44.73 ± 2.37	3.50 ± 3.03	0.51 ± 0.22	0.30 ± 0.14	0.82 ± 0.30
M12	0.25 ± 0.20	0.00 ± 0.00	0.46 ± 0.99	52.56 ± 4.39	45.02 ± 3.95	0.96 ± 0.36	0.42 ± 0.22	0.33 ± 0.14	0.75 ± 0.35

N.S. = No Sample

N.D. = No Data Available, Sample Archived

* Cruise designations correspond to the following dates: M1, July 1981; M2, November 1981; M3, February 1982; M4, May 1982; M5, July 1982; M6, November 1982; M7, February 1983; M8, May 1983; M9, July 1983; M10, November 1983; M11, February 1984; M12, June 1984.

TABLE J-2. SEDIMENT GRAIN SIZE ANALYSIS OF SITE-SPECIFIC STATIONS, SHOWING AVERAGE PERCENT COMPOSITION AND ONE STANDARD DEVIATION FOR EACH SIZE CLASS MEASURED.*

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 5-1									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	2.49 ± 1.07	5.51 ± 2.24	45.09 ± 6.48	39.94 ± 6.35	6.83 ± 2.98	0.00 ± 0.00	0.10 ± 0.04	0.04 ± 0.01	0.14 ± 0.05
M3	3.09 ± 2.00	8.40 ± 3.15	51.51 ± 7.80	29.01 ± 10.54	8.07 ± 1.42	0.00 ± 0.00	0.05 ± 0.03	0.05 ± 0.03	0.10 ± 0.06
M4	5.95 ± 2.67	11.27 ± 2.18	47.16 ± 2.31	26.56 ± 3.79	7.34 ± 3.28	0.00 ± 0.00	0.21 ± 0.06	0.10 ± 0.03	0.31 ± 0.08
M5	4.12 ± 4.64	2.20 ± 1.49	39.64 ± 4.88	40.07 ± 5.63	10.54 ± 1.65	2.55 ± 0.71	0.60 ± 0.21	0.28 ± 0.08	0.87 ± 0.29
M6	2.52 ± 1.67	8.00 ± 1.89	51.12 ± 3.92	27.38 ± 3.88	8.06 ± 1.17	1.94 ± 0.38	0.64 ± 0.35	0.36 ± 0.16	1.00 ± 0.51
M7	2.28 ± 0.58	6.49 ± 0.74	49.70 ± 4.23	31.35 ± 4.79	8.17 ± 1.64	1.54 ± 0.37	0.32 ± 0.16	0.17 ± 0.07	0.49 ± 0.21
M8	4.82 ± 1.98	12.51 ± 6.46	45.17 ± 6.40	27.00 ± 1.67	7.06 ± 1.65	2.28 ± 0.77	0.80 ± 0.24	0.38 ± 0.13	1.18 ± 0.37
M9	1.77 ± 1.47	2.80 ± 2.07	39.85 ± 3.78	42.81 ± 5.76	9.89 ± 2.00	2.10 ± 0.61	0.46 ± 0.24	0.32 ± 0.15	0.78 ± 0.39
M10	3.06 ± 1.14	11.93 ± 4.63	38.60 ± 2.79	33.12 ± 4.47	9.81 ± 1.46	2.72 ± 1.32	0.57 ± 0.26	0.22 ± 0.10	0.80 ± 0.36
M11	7.29 ± 5.38	6.12 ± 5.98	52.04 ± 9.45	23.20 ± 4.23	5.92 ± 1.74	3.98 ± 1.95	1.12 ± 0.29	0.34 ± 0.10	1.46 ± 0.38
M12	2.18 ± 0.77	14.64 ± 7.68	46.49 ± 5.23	26.74 ± 4.73	7.18 ± 2.75	1.74 ± 1.00	0.67 ± 0.12	0.36 ± 0.08	1.03 ± 0.20
Sta 5-2									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	2.06 ± 0.50	11.08 ± 7.62	58.05 ± 5.83	22.17 ± 4.03	5.39 ± 3.16	0.32 ± 0.80	0.07 ± 0.03	0.03 ± 0.01	0.10 ± 0.04
M3	0.85 ± 0.44	9.56 ± 5.77	58.89 ± 6.17	23.92 ± 5.98	6.27 ± 1.96	0.00 ± 0.00	0.10 ± 0.03	0.04 ± 0.02	0.14 ± 0.05
M4	2.70 ± 0.66	7.12 ± 4.72	37.82 ± 14.25	37.24 ± 12.34	11.98 ± 3.77	2.91 ± 3.82	0.15 ± 0.15	0.23 ± 0.31	0.38 ± 0.33
M5	2.26 ± 0.64	2.76 ± 1.52	40.01 ± 2.27	41.51 ± 2.01	9.70 ± 0.70	2.71 ± 1.36	0.59 ± 0.15	0.30 ± 0.07	0.89 ± 0.21
M6	3.05 ± 1.04	10.23 ± 2.74	48.28 ± 3.04	28.39 ± 2.59	7.37 ± 1.17	1.95 ± 0.73	0.51 ± 0.42	0.23 ± 0.13	0.74 ± 0.43
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	1.47 ± 0.55	4.97 ± 1.04	45.08 ± 3.27	37.10 ± 2.60	8.88 ± 2.00	1.72 ± 1.05	0.46 ± 0.18	0.31 ± 0.13	0.77 ± 0.31
Sta 5-3									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	4.68 ± 2.38	11.00 ± 6.42	48.73 ± 5.39	28.54 ± 6.39	6.99 ± 2.25	0.00 ± 0.00	0.07 ± 0.03	0.02 ± 0.01	0.10 ± 0.04
M3	2.80 ± 1.51	13.18 ± 5.29	46.99 ± 6.24	28.65 ± 5.18	7.73 ± 2.10	0.00 ± 0.00	0.11 ± 0.07	0.06 ± 0.04	0.18 ± 0.10
M4	1.02 ± 0.82	6.93 ± 7.10	45.76 ± 6.58	32.92 ± 8.86	12.49 ± 4.73	0.65 ± 1.60	0.16 ± 0.11	0.05 ± 0.04	0.21 ± 0.14
M5	0.32 ± 0.16	0.54 ± 0.68	39.72 ± 5.51	45.86 ± 2.74	10.74 ± 2.94	2.04 ± 0.84	0.46 ± 0.07	0.31 ± 0.15	0.77 ± 0.12
M6	3.82 ± 1.22	13.25 ± 5.51	46.48 ± 3.26	26.98 ± 5.08	6.57 ± 2.07	1.91 ± 0.59	0.62 ± 0.23	0.42 ± 0.14	1.03 ± 0.36
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	1.47 ± 1.47	7.98 ± 7.46	44.98 ± 7.72	33.57 ± 8.40	9.26 ± 2.35	2.26 ± 0.74	0.33 ± 0.32	0.17 ± 0.11	0.50 ± 0.43
Sta 5-4									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.07 ± 0.38	8.39 ± 3.87	54.82 ± 7.74	32.78 ± 8.98	2.80 ± 3.22	0.00 ± 0.00	0.07 ± 0.05	0.06 ± 0.02	0.13 ± 0.05
M3	1.36 ± 0.33	11.31 ± 2.30	52.30 ± 5.02	27.55 ± 4.69	7.22 ± 1.03	0.00 ± 0.00	0.19 ± 0.11	0.06 ± 0.04	0.26 ± 0.15
M4	0.96 ± 0.62	4.60 ± 2.38	46.40 ± 5.19	34.89 ± 2.77	12.84 ± 4.50	0.00 ± 0.00	0.20 ± 0.21	0.10 ± 0.08	0.31 ± 0.28
M5	1.47 ± 1.64	1.42 ± 1.44	37.75 ± 4.16	42.99 ± 3.77	12.23 ± 2.56	3.01 ± 1.13	0.48 ± 0.14	0.26 ± 0.11	0.74 ± 0.23
M6	2.39 ± 1.44	9.38 ± 3.98	49.39 ± 4.16	28.71 ± 4.18	7.74 ± 1.81	1.87 ± 0.77	0.32 ± 0.12	0.20 ± 0.06	0.51 ± 0.18
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	1.50 ± 0.64	11.88 ± 5.72	48.33 ± 3.80	27.46 ± 6.61	7.49 ± 1.00	2.61 ± 0.94	0.43 ± 0.17	0.23 ± 0.08	0.66 ± 0.25

TABLE J-2. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 5-5									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.81 ± 0.72	13.47 ± 13.44	42.83 ± 19.26	38.08 ± 23.40	4.66 ± 6.77	0.00 ± 0.00	0.10 ± 0.08	0.05 ± 0.04	0.15 ± 0.11
M3	0.86 ± 1.28	4.92 ± 4.43	45.47 ± 10.05	38.34 ± 7.69	10.29 ± 6.36	0.00 ± 0.00	0.13 ± 0.11	0.08 ± 0.09	0.21 ± 0.20
M4	0.79 ± 0.83	3.64 ± 2.33	49.92 ± 7.87	35.66 ± 3.44	9.87 ± 5.70	0.00 ± 0.00	0.09 ± 0.04	0.04 ± 0.03	0.13 ± 0.05
M5	0.53 ± 0.25	1.07 ± 0.62	32.88 ± 6.14	48.12 ± 4.90	13.76 ± 2.63	2.98 ± 0.43	0.30 ± 0.21	0.36 ± 0.14	0.66 ± 0.32
M6	0.43 ± 0.26	4.78 ± 1.11	49.14 ± 2.78	34.57 ± 2.04	9.68 ± 2.06	1.01 ± 0.48	0.23 ± 0.07	0.16 ± 0.06	0.39 ± 0.12
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.76 ± 0.48	4.92 ± 1.64	49.13 ± 4.48	34.87 ± 2.24	8.15 ± 2.62	1.80 ± 0.60	0.20 ± 0.07	0.17 ± 0.04	0.38 ± 0.11
Sta 5-6									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.28 ± 0.46	4.60 ± 1.49	51.77 ± 3.14	35.51 ± 4.21	6.74 ± 1.30	0.00 ± 0.00	0.07 ± 0.02	0.04 ± 0.02	0.10 ± 0.03
M3	1.08 ± 0.71	7.56 ± 5.15	53.84 ± 6.06	32.81 ± 7.36	3.79 ± 3.23	0.00 ± 0.00	0.06 ± 0.02	0.02 ± 0.02	0.09 ± 0.04
M4	1.80 ± 1.50	1.97 ± 1.97	48.27 ± 7.19	38.36 ± 6.47	9.39 ± 1.52	0.00 ± 0.00	0.15 ± 0.12	0.06 ± 0.03	0.21 ± 0.14
M5	0.65 ± 0.21	0.47 ± 0.63	34.60 ± 3.24	48.05 ± 2.60	12.30 ± 1.70	3.07 ± 0.72	0.47 ± 0.12	0.40 ± 0.14	0.87 ± 0.23
M6	1.01 ± 0.70	7.38 ± 5.06	52.42 ± 6.09	31.22 ± 7.82	6.24 ± 2.61	1.02 ± 0.42	0.41 ± 0.18	0.30 ± 0.14	0.71 ± 0.29
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.22 ± 0.15	1.81 ± 1.02	47.57 ± 4.46	39.80 ± 4.64	8.46 ± 1.89	1.74 ± 0.24	0.26 ± 0.17	0.13 ± 0.08	0.40 ± 0.24
Sta 5-8									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	9.95 ± 5.35	14.70 ± 3.07	42.41 ± 6.61	25.79 ± 3.94	6.34 ± 2.69	0.61 ± 1.50	0.13 ± 0.06	0.06 ± 0.01	0.20 ± 0.06
M3	3.91 ± 3.23	10.13 ± 6.42	42.12 ± 5.12	31.98 ± 6.16	11.48 ± 2.15	0.00 ± 0.00	0.22 ± 0.17	0.16 ± 0.08	0.38 ± 0.25
M4	5.02 ± 3.47	11.68 ± 3.64	49.35 ± 4.41	26.21 ± 2.44	7.56 ± 1.63	0.00 ± 0.00	0.17 ± 0.08	0.09 ± 0.04	0.26 ± 0.07
M5	4.19 ± 1.92	6.48 ± 2.19	37.30 ± 1.47	35.59 ± 3.22	11.41 ± 2.12	3.88 ± 0.45	0.74 ± 0.18	0.43 ± 0.13	1.17 ± 0.30
M6	4.92 ± 3.17	11.25 ± 6.79	44.15 ± 5.25	29.12 ± 9.67	7.72 ± 1.47	1.98 ± 0.66	0.54 ± 0.31	0.38 ± 0.26	0.92 ± 0.56
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	4.58 ± 1.63	12.77 ± 3.68	45.75 ± 3.16	25.62 ± 2.54	7.14 ± 0.57	3.18 ± 0.99	0.65 ± 0.29	0.36 ± 0.13	1.00 ± 0.41
Sta 5-9									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	4.29 ± 1.42	18.44 ± 5.59	48.88 ± 7.02	19.72 ± 3.29	8.44 ± 1.97	0.00 ± 0.00	0.14 ± 0.05	0.05 ± 0.0	0.19 ± 0.05
M3	2.62 ± 1.07	17.87 ± 11.43	48.53 ± 7.38	24.21 ± 4.10	6.80 ± 5.32	0.00 ± 0.00	0.22 ± 0.12	0.07 ± 0.02	0.30 ± 0.14
M4	1.36 ± 0.51	10.31 ± 6.66	54.02 ± 4.99	25.02 ± 6.58	8.83 ± 1.11	0.00 ± 0.00	0.31 ± 0.11	0.15 ± 0.08	0.46 ± 0.08
M5	1.73 ± 0.89	4.27 ± 1.52	39.92 ± 3.15	37.16 ± 2.10	12.95 ± 2.25	3.03 ± 0.80	0.61 ± 0.07	0.37 ± 0.13	0.97 ± 0.19
M6	2.48 ± 1.17	12.46 ± 7.52	49.21 ± 2.74	25.15 ± 4.44	7.17 ± 1.52	2.17 ± 0.84	0.84 ± 0.22	0.56 ± 0.14	1.39 ± 0.35
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	2.99 ± 0.94	10.48 ± 3.01	48.95 ± 2.69	24.96 ± 2.09	8.26 ± 1.79	2.91 ± 1.08	0.96 ± 0.55	0.52 ± 0.24	1.48 ± 0.78

TABLE J-2. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 5-10									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.02 ± 0.78	6.58 ± 3.15	53.99 ± 3.10	27.82 ± 1.86	10.37 ± 2.94	0.00 ± 0.00	0.15 ± 0.06	0.07 ± 0.02	0.22 ± 0.06
M3	0.80 ± 0.63	9.90 ± 1.20	50.54 ± 3.25	30.40 ± 3.83	8.25 ± 1.91	0.00 ± 0.00	0.08 ± 0.04	0.02 ± 0.01	0.11 ± 0.04
M4	0.53 ± 0.43	4.63 ± 2.97	50.29 ± 4.96	33.42 ± 4.60	10.92 ± 2.74	0.00 ± 0.00	0.13 ± 0.09	0.08 ± 0.07	0.21 ± 0.13
M5	0.49 ± 0.31	2.77 ± 1.33	41.67 ± 4.17	38.56 ± 3.62	12.67 ± 3.66	2.67 ± 0.70	0.70 ± 0.26	0.48 ± 0.18	1.18 ± 0.44
M6	1.12 ± 0.72	10.53 ± 3.47	52.85 ± 3.02	24.87 ± 2.51	7.62 ± 1.54	1.93 ± 0.54	0.62 ± 0.15	0.48 ± 0.12	1.10 ± 0.24
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	1.05 ± 0.84	6.52 ± 3.11	52.95 ± 3.69	27.61 ± 5.82	7.94 ± 0.98	2.92 ± 0.68	0.66 ± 0.41	0.34 ± 0.19	1.00 ± 0.59
Sta 5-11									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.60 ± 0.95	6.10 ± 3.12	49.96 ± 7.58	34.57 ± 7.49	8.61 ± 2.44	0.00 ± 0.00	0.16 ± 0.08	0.05 ± 0.02	0.21 ± 0.07
M3	0.15 ± 0.10	2.16 ± 1.60	39.39 ± 6.95	41.22 ± 3.99	15.29 ± 3.50	1.33 ± 2.06	0.10 ± 0.07	0.04 ± 0.02	0.13 ± 0.08
M4	0.28 ± 0.17	4.31 ± 3.19	49.06 ± 7.15	35.45 ± 6.17	10.60 ± 2.98	0.00 ± 0.00	0.23 ± 0.09	0.07 ± 0.04	0.30 ± 0.11
M5	0.27 ± 0.25	1.24 ± 0.97	40.57 ± 6.56	41.44 ± 3.91	12.82 ± 3.10	2.50 ± 0.72	0.75 ± 0.09	0.40 ± 0.03	1.16 ± 0.10
M6	0.15 ± 0.12	4.94 ± 0.79	49.66 ± 2.64	32.58 ± 0.59	10.28 ± 1.61	1.57 ± 0.48	0.44 ± 0.22	0.30 ± 0.18	0.74 ± 0.39
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.72 ± 0.51	4.32 ± 2.72	46.47 ± 2.35	35.20 ± 3.85	11.04 ± 1.74	2.05 ± 1.05	0.16 ± 0.07	0.10 ± 0.02	0.25 ± 0.08
Sta 5-12									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.08 ± 0.58	6.74 ± 3.24	55.31 ± 7.22	30.79 ± 6.62	5.93 ± 2.73	0.00 ± 0.00	0.06 ± 0.02	0.04 ± 0.02	0.09 ± 0.04
M3	0.23 ± 0.13	1.33 ± 1.63	32.55 ± 19.60	48.20 ± 18.54	17.62 ± 5.56	0.00 ± 0.00	0.03 ± 0.03	0.02 ± 0.02	0.06 ± 0.04
M4	0.20 ± 0.15	3.98 ± 6.28	31.55 ± 16.32	45.17 ± 13.98	18.92 ± 8.88	0.00 ± 0.00	0.13 ± 0.11	0.05 ± 0.03	0.18 ± 0.14
M5	0.18 ± 0.19	0.59 ± 0.95	23.92 ± 18.71	48.51 ± 7.85	24.09 ± 12.06	1.95 ± 0.59	0.35 ± 0.19	0.28 ± 0.13	0.62 ± 0.31
M6	1.91 ± 2.77	6.13 ± 6.23	29.07 ± 14.54	43.39 ± 15.34	17.01 ± 7.08	1.73 ± 0.87	0.49 ± 0.37	0.30 ± 0.19	0.79 ± 0.55
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.94 ± 0.68	2.56 ± 2.29	30.68 ± 12.83	45.56 ± 10.76	18.08 ± 4.80	2.00 ± 0.61	0.09 ± 0.08	0.11 ± 0.07	0.20 ± 0.14
Sta 5-14									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.55 ± 0.46	4.63 ± 2.56	60.73 ± 5.62	32.12 ± 5.66	1.82 ± 2.84	0.00 ± 0.00	0.08 ± 0.05	0.07 ± 0.06	0.14 ± 0.11
M3	0.26 ± 0.11	3.98 ± 3.08	51.92 ± 9.82	35.01 ± 8.40	7.63 ± 3.44	0.33 ± 0.81	0.15 ± 0.06	0.05 ± 0.01	0.20 ± 0.08
M4	0.15 ± 0.06	1.66 ± 2.33	55.46 ± 8.75	35.87 ± 7.25	6.64 ± 3.00	0.00 ± 0.00	0.14 ± 0.09	0.07 ± 0.02	0.21 ± 0.10
M5	0.28 ± 0.12	0.16 ± 0.40	41.35 ± 4.13	43.58 ± 3.30	11.72 ± 0.99	1.96 ± 0.59	0.53 ± 0.07	0.41 ± 0.08	0.94 ± 0.10
M6	1.31 ± 2.04	4.79 ± 2.09	56.58 ± 4.86	30.27 ± 1.99	5.50 ± 1.52	1.04 ± 0.45	0.35 ± 0.29	0.16 ± 0.06	0.51 ± 0.34
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.42 ± 0.28	2.54 ± 2.16	54.38 ± 2.91	34.34 ± 3.60	6.46 ± 1.10	1.62 ± 0.49	0.15 ± 0.06	0.12 ± 0.04	0.27 ± 0.08

TABLE J-2. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 5-16									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	5.08 ± 3.45	8.14 ± 4.30	44.35 ± 10.18	28.90 ± 7.55	13.43 ± 8.64	0.00 ± 0.00	0.06 ± 0.03	0.03 ± 0.01	0.10 ± 0.04
M3	6.14 ± 3.28	11.11 ± 4.95	36.09 ± 5.25	30.99 ± 6.94	15.40 ± 6.22	0.00 ± 0.00	0.20 ± 0.16	0.06 ± 0.04	0.26 ± 0.19
M4	3.30 ± 3.00	15.46 ± 14.80	46.02 ± 6.78	27.88 ± 9.98	6.98 ± 4.30	0.00 ± 0.00	0.30 ± 0.18	0.06 ± 0.02	0.36 ± 0.18
M5	2.76 ± 1.11	8.41 ± 5.29	38.86 ± 5.97	33.12 ± 2.51	13.11 ± 5.51	2.61 ± 1.24	0.73 ± 0.22	0.42 ± 0.12	1.15 ± 0.33
M6	6.51 ± 3.38	10.85 ± 5.25	34.37 ± 4.54	33.87 ± 7.71	12.26 ± 3.82	1.83 ± 0.62	0.26 ± 0.09	0.14 ± 0.06	0.40 ± 0.14
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	2.92 ± 2.00	8.93 ± 5.94	44.23 ± 17.48	29.67 ± 13.35	11.71 ± 10.28	2.03 ± 0.63	0.30 ± 0.29	0.22 ± 0.09	0.52 ± 0.36
Sta 5-18									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.68 ± 0.58	4.94 ± 3.63	51.71 ± 7.45	30.77 ± 7.16	11.58 ± 4.06	0.00 ± 0.00	0.10 ± 0.03	0.04 ± 0.01	0.15 ± 0.04
M3	1.38 ± 1.74	8.78 ± 4.72	50.14 ± 6.64	26.25 ± 4.97	13.16 ± 4.24	0.00 ± 0.00	0.21 ± 0.12	0.06 ± 0.04	0.27 ± 0.16
M4	0.51 ± 0.24	5.28 ± 6.57	53.90 ± 10.65	31.43 ± 8.96	8.61 ± 6.39	0.00 ± 0.00	0.18 ± 0.10	0.09 ± 0.02	0.27 ± 0.11
M5	0.59 ± 0.30	1.80 ± 1.84	43.78 ± 5.35	38.25 ± 4.97	11.96 ± 2.24	2.61 ± 0.55	0.66 ± 0.20	0.37 ± 0.08	1.03 ± 0.26
M6	1.23 ± 0.45	7.19 ± 1.30	51.60 ± 2.95	28.73 ± 1.19	9.00 ± 1.81	1.60 ± 0.79	0.43 ± 0.16	0.41 ± 0.25	0.84 ± 0.24
M7	1.41 ± 1.39	8.81 ± 4.56	52.24 ± 5.92	26.82 ± 2.60	8.28 ± 1.35	1.56 ± 0.40	0.60 ± 0.37	0.30 ± 0.16	0.91 ± 0.52
M8	0.96 ± 0.78	2.54 ± 1.21	52.00 ± 3.30	31.51 ± 4.45	9.58 ± 1.11	2.70 ± 0.66	0.46 ± 0.28	0.25 ± 0.14	0.71 ± 0.42
M9	0.69 ± 0.29	3.10 ± 1.59	48.23 ± 2.80	33.78 ± 1.82	10.43 ± 1.52	2.89 ± 0.68	0.60 ± 0.38	0.32 ± 0.15	0.91 ± 0.53
M10	0.80 ± 0.27	9.19 ± 1.98	40.64 ± 4.61	33.15 ± 2.67	12.48 ± 2.46	3.14 ± 0.26	0.47 ± 0.14	0.23 ± 0.06	0.70 ± 0.15
M11	0.58 ± 0.14	2.17 ± 2.97	58.08 ± 3.28	26.77 ± 3.27	8.39 ± 2.35	3.33 ± 2.22	0.52 ± 0.23	0.19 ± 0.09	0.72 ± 0.28
M12	1.32 ± 0.71	14.22 ± 6.19	47.86 ± 7.00	25.25 ± 2.32	8.09 ± 1.00	1.85 ± 0.27	0.90 ± 0.22	0.50 ± 0.09	1.41 ± 0.30
Sta 5-20									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	4.36 ± 2.70	22.04 ± 13.06	37.40 ± 12.42	27.14 ± 13.25	5.30 ± 2.36	0.00 ± 0.00	0.06 ± 0.02	0.04 ± 0.02	0.10 ± 0.03
M3	0.30 ± 0.22	1.33 ± 1.03	25.90 ± 10.46	54.14 ± 9.21	17.94 ± 5.69	0.33 ± 0.81	0.04 ± 0.03	0.02 ± 0.01	0.06 ± 0.04
M4	0.32 ± 0.41	3.30 ± 4.08	39.45 ± 11.70	53.73 ± 9.72	2.99 ± 3.94	0.00 ± 0.00	0.14 ± 0.14	0.07 ± 0.05	0.21 ± 0.18
M5	0.44 ± 0.40	1.02 ± 0.87	29.34 ± 11.19	52.44 ± 7.56	14.90 ± 5.18	1.45 ± 0.53	0.25 ± 0.12	0.20 ± 0.08	0.45 ± 0.20
M6	0.25 ± 0.26	1.03 ± 0.92	31.66 ± 6.65	53.38 ± 5.31	12.37 ± 3.63	1.11 ± 0.83	0.12 ± 0.12	0.09 ± 0.03	0.22 ± 0.15
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	1.01 ± 1.00	2.12 ± 3.19	34.30 ± 18.68	48.89 ± 17.30	12.20 ± 5.95	1.50 ± 0.67	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Sta 5-22									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	0.09 ± 0.11	4.66 ± 4.11	61.72 ± 3.36	32.28 ± 4.42	1.16 ± 2.04	0.00 ± 0.00	0.07 ± 0.02	0.03 ± 0.01	0.10 ± 0.02
M3	2.00 ± 4.08	3.49 ± 3.20	56.28 ± 7.63	31.48 ± 8.75	6.76 ± 3.87	0.00 ± 0.00	0.22 ± 0.21	0.17 ± 0.08	0.39 ± 0.26
M4	0.89 ± 1.79	3.26 ± 5.59	54.10 ± 5.86	36.69 ± 6.91	4.94 ± 4.12	0.00 ± 0.00	0.12 ± 0.12	0.04 ± 0.04	0.16 ± 0.16
M5	0.15 ± 0.11	0.44 ± 0.47	44.69 ± 1.72	42.35 ± 1.88	9.15 ± 1.06	1.90 ± 0.42	0.75 ± 0.31	0.58 ± 0.19	1.33 ± 0.29
M6	0.30 ± 0.31	6.23 ± 1.81	59.39 ± 2.31	27.63 ± 1.97	4.39 ± 0.68	1.19 ± 0.68	0.55 ± 0.24	0.32 ± 0.27	0.87 ± 0.50
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.12 ± 0.05	1.99 ± 1.84	55.08 ± 6.14	35.61 ± 6.30	4.81 ± 1.61	2.02 ± 0.28	0.22 ± 0.16	0.14 ± 0.03	0.36 ± 0.19

TABLE J-2. (Continued)

	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	Silt Plus Clay
Sta 5-25									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	1.61 ± 2.08	0.66 ± 1.02	43.99 ± 8.58	36.28 ± 3.33	17.28 ± 4.79	0.00 ± 0.00	0.07 ± 0.02	0.05 ± 0.02	0.12 ± 0.03
M3	0.48 ± 0.51	4.46 ± 1.90	45.66 ± 9.75	33.70 ± 4.10	14.35 ± 5.11	0.98 ± 1.97	0.21 ± 0.08	0.16 ± 0.09	0.37 ± 0.17
M4	0.43 ± 0.74	0.33 ± 0.81	43.42 ± 9.42	42.72 ± 6.83	12.92 ± 4.84	0.00 ± 0.00	0.12 ± 0.08	0.05 ± 0.06	0.17 ± 0.11
M5	0.24 ± 0.14	0.51 ± 0.80	38.02 ± 3.64	41.78 ± 4.68	14.60 ± 2.27	3.41 ± 0.59	0.80 ± 0.18	0.65 ± 0.18	1.45 ± 0.36
M6	0.87 ± 0.51	2.28 ± 0.48	45.41 ± 4.05	35.29 ± 2.15	13.30 ± 3.18	1.87 ± 0.91	0.56 ± 0.27	0.43 ± 0.14	0.99 ± 0.40
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	0.32 ± 0.20	2.87 ± 1.44	42.60 ± 5.28	37.03 ± 3.34	13.48 ± 1.73	2.93 ± 1.60	0.47 ± 0.33	0.33 ± 0.13	0.80 ± 0.45
Sta 5-28									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	5.86 ± 3.79	15.29 ± 8.67	47.17 ± 6.80	27.85 ± 6.86	3.76 ± 2.37	0.00 ± 0.00	0.04 ± 0.02	0.02 ± 0.01	0.06 ± 0.03
M3	3.92 ± 1.38	8.59 ± 3.28	48.45 ± 5.82	32.81 ± 5.36	5.72 ± 2.36	0.00 ± 0.00	0.33 ± 0.20	0.17 ± 0.09	0.50 ± 0.27
M4	6.89 ± 4.00	4.73 ± 4.61	48.22 ± 6.44	36.68 ± 10.86	3.35 ± 2.07	0.00 ± 0.00	0.09 ± 0.06	0.03 ± 0.02	0.12 ± 0.07
M5	3.36 ± 2.13	3.96 ± 1.93	42.90 ± 5.93	40.24 ± 4.35	7.25 ± 1.53	1.44 ± 0.44	0.56 ± 0.36	0.35 ± 0.18	0.90 ± 0.54
M6	4.60 ± 4.64	16.50 ± 14.64	46.83 ± 12.09	27.29 ± 6.37	3.34 ± 1.06	0.90 ± 0.47	0.42 ± 0.58	0.23 ± 0.23	0.66 ± 0.80
M7	4.08 ± 1.92	13.83 ± 10.31	53.79 ± 8.44	24.44 ± 4.86	2.75 ± 0.37	0.86 ± 0.32	0.17 ± 0.28	0.08 ± 0.07	0.26 ± 0.34
M8	5.18 ± 1.99	8.59 ± 5.07	49.14 ± 4.67	30.14 ± 6.87	4.81 ± 1.43	1.70 ± 0.72	0.34 ± 0.26	0.13 ± 0.09	0.47 ± 0.35
M9	5.00 ± 3.31	6.45 ± 4.11	46.16 ± 3.49	35.08 ± 8.70	5.14 ± 1.44	1.97 ± 0.89	0.14 ± 0.07	0.08 ± 0.05	0.22 ± 0.11
M10	4.54 ± 2.25	13.15 ± 5.75	40.50 ± 3.31	32.56 ± 5.00	7.00 ± 0.86	2.10 ± 1.08	0.12 ± 0.06	0.03 ± 0.02	0.16 ± 0.07
M11	4.09 ± 1.32	13.34 ± 2.96	53.58 ± 2.98	22.77 ± 2.01	2.14 ± 0.48	1.24 ± 0.69	0.37 ± 0.21	2.49 ± 0.15	2.86 ± 0.26
M12	2.69 ± 1.10	10.77 ± 8.3	55.27 ± 5.31	24.09 ± 9.02	2.78 ± 1.56	1.37 ± 1.09	0.22 ± 0.14	2.81 ± 0.28	3.03 ± 0.26
Sta 5-29									
M1	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M2	3.96 ± 3.80	0.94 ± 1.04	4.94 ± 2.69	25.90 ± 5.40	49.02 ± 7.31	14.59 ± 10.24	0.44 ± 0.21	0.22 ± 0.12	0.65 ± 0.32
M3	4.40 ± 3.00	0.94 ± 1.02	5.04 ± 2.22	26.18 ± 5.10	51.47 ± 4.79	11.05 ± 1.66	0.65 ± 0.19	0.25 ± 0.06	0.90 ± 0.17
M4	5.21 ± 2.67	0.00 ± 0.00	3.46 ± 2.55	24.98 ± 2.28	53.98 ± 3.18	11.27 ± 3.69	0.81 ± 0.36	0.29 ± 0.10	1.10 ± 0.45
M5	5.23 ± 3.88	0.00 ± 0.00	1.12 ± 0.98	20.66 ± 5.98	53.57 ± 4.99	16.26 ± 1.89	2.05 ± 0.43	1.12 ± 0.20	3.17 ± 0.62
M6	6.02 ± 4.81	0.25 ± 0.28	3.41 ± 1.06	29.15 ± 2.87	47.29 ± 4.88	11.47 ± 1.02	1.56 ± 0.25	0.91 ± 0.11	2.47 ± 0.34
M7	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
M8	5.06 ± 2.00	0.09 ± 0.23	3.26 ± 1.24	25.78 ± 4.46	49.23 ± 6.13	14.19 ± 2.23	1.54 ± 0.26	0.85 ± 0.06	2.39 ± 0.29

N.S. = No sample.

* Cruise designations correspond to the following dates: M1, July 1981; M2, November 1981; M3, February 1982; M4, May 1982; M5, July 1982; M6, November 1982; M7, February 1983; M8, May 1983; M9, July 1983; M10, November 1983; M11, February 1984; M12, June 1984.

APPENDIX K

TABLE K-1. SALINITY (°/oo) AT GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATIONS.

Station	July 1981		November 1981		February 1982		May 1982		July 1982		November 1982	
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	32.8	32.8	*	*	31.5	31.0	31.0	32.0	32.4	32.6	32.5	32.5
2	32.3	32.9	*	*	31.0	31.5	*	31.0	32.0	32.9	32.0	32.7
3	31.5	33.8	*	*	31.0	31.5	33.0	33.0	32.4	35.0	32.2	33.0
4	32.6	32.9	*	*	32.0	31.0	31.0	32.0	32.6	32.9	32.6	33.0
5-1	*	*	*	*	30.5	31.0	31.0	31.0	32.7	33.6	32.5	33.0
6	*	*	*	*	31.5	31.0	32.0	32.0	33.2	35.1	33.0	33.5
7	*	*	*	*	30.5	32.0	31.0	33.0	*	*	*	*
7A	*	*	*	*	*	*	*	*	34.0	35.3	33.1	33.7
8	32.6	35.1	*	*	31.0	32.0	32.0	34.0	33.6	35.2	33.6	34.0
9	*	*	*	*	31.0	33.0	33.0	34.0	33.5	35.5	33.3	34.2
10	33.0	32.5	*	*	31.0	31.0	31.0	32.0	32.8	32.8	32.6	32.6
11	33.1	33.0	*	*	31.0	32.0	32.0	32.0	33.8	33.7	33.1	33.4
12	33.4	*	*	*	32.0	32.0	31.0	32.0	34.7	35.1	32.8	33.5
13	33.0	34.5	*	*	31.0	31.0	31.0	31.0	33.2	34.4	32.0	33.8
13A	*	*	*	*	*	*	*	*	33.2	34.4	33.2	33.7
14	32.0	33.1	*	*	*	*	31.0	32.0	*	*	*	*
14A	*	*	*	*	*	*	*	*	31.9	33.7	32.4	32.6
15	32.7	32.8	*	*	32.0	32.0	31.0	32.0	32.4	32.3	32.2	32.6
16	32.9	32.9	*	*	32.0	32.5	32.0	34.0	34.2	35.4	*	*
17	32.4	35.2	*	*	32.0	32.5	32.0	34.0	34.0	35.3	*	*
18	32.5	34.8	*	*	32.0	32.5	32.0	33.0	34.2	35.4	*	*

TABLE K-1. (Continued)

Station	February 1983		May 1983		July 1983		November 1983		February 1984		June 1984	
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	31.4	31.6	31.5	32.2	32.1	32.3	32.6	32.6	31.2	31.7	31.6	32.1
2	*	31.6	31.4	31.7	32.3	32.8	32.2	33.1	31.0	31.6	31.5	32.0
3	31.1	31.5	32.0	32.5	31.6	33.2	32.0	32.9	31.0	31.6	32.0	32.3
4	*	*	31.4	32.0	31.0	32.3	32.0	33.0	*	31.8	31.0	32.1
5-1	31.6	32.3	31.6	32.2	32.4	32.6	32.5	33.0	31.4	32.0	31.5	32.7
6	31.2	31.8	32.0	32.3	33.3	34.1	32.8	33.1	31.5	31.9	32.0	32.3
7	*	*	*	*	*	*	*	*	*	*	*	*
7A	31.4	32.1	32.3	33.4	33.1	33.9	33.1	33.4	31.8	32.0	32.1	33.2
8	32.1	32.5	32.5	33.5	33.0	34.2	33.4	34.1	32.0	32.1	32.6	33.8
9	*	*	33.2	34.1	32.9	34.5	34.1	35.2	31.2	33.2	33.0	34.0
10	31.0	31.2	31.4	32.1	31.0	31.8	32.4	32.7	31.0	31.0	31.4	32.1
11	*	*	32.2	33.0	32.1	32.1	32.5	32.7	31.0	31.5	32.0	32.0
12	*	*	31.5	32.4	32.9	32.9	32.8	33.1	32.1	32.5	32.4	32.5
13	31.5	32.2	31.9	32.4	33.1	34.0	32.1	*	31.0	31.0	31.8	32.8
13A	*	*	32.1	32.5	33.3	33.8	32.6	33.2	31.0	31.4	32.0	32.7
14	*	*	*	*	*	*	*	*	*	*	*	*
14A	*	*	31.7	32.4	*	*	*	*	*	*	*	*
15	31.7	32.4	*	*	*	*	*	*	*	*	*	*
16	32.0	32.5	32.4	33.2	32.6	33.7	33.5	34.0	32.4	32.6	33.1	33.9
17	32.2	32.5	32.2	34.6	32.2	33.4	33.5	34.2	32.4	32.9	32.6	*
18	32.5	*	32.7	34.5	32.5	34.1	*	33.9	32.6	33.0	33.1	34.2

* No sample/data at this station.

TABLE K-2. SURFACE AND BOTTOM TEMPERATURE (°C) FROM XBT RECORDS FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATIONS.

Station	July 1981		November 1981		February 1982		May 1982		July 1982		November 1982	
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	16.7	10.4	10.2	11.0	4.1	4.3	5.1	5.0	15.6	9.5	11.4	13.7
2	16.6	7.5	*	*	4.4	4.5	5.8	5.2	16.3	6.8	10.7	10.6
3	16.6	7.2	11.1	8.4	4.0	7.2	10.7	12.5	15.8	12.4	15.0	13.0
4	13.7	9.7	11.2	10.3	3.8	3.8	6.4	6.4	15.3	9.7	*	*
5-1	*	*	11.4	15.6	4.5	5.0	6.2	5.3	*	*	12.0	11.1
6	18.7	8.7	*	*	*	*	5.6	9.7	17.6	12.5	*	*
7	*	*	11.1	10.0	4.5	12.3	5.8	11.5	*	*	*	*
7A	*	*	*	*	*	*	*	*	18.7	8.8	12.2	13.4
8	19.3	10.8	11.7	10.0	4.5	11.6	10.0	11.2	18.3	10.8	14.7	11.2
9	18.0	11.2	11.4	9.7	*	*	9.6	10.5	19.6	11.4	11.8	12.5
10	16.5	10.2	11.5	11.6	4.0	4.2	6.6	6.5	13.0	10.7	11.3	11.5
11	16.5	7.8	13.0	11.0	4.1	4.4	6.2	5.4	19.3	10.5	10.8	12.8
12	19.2	10.8	14.1	10.6	4.6	6.7	9.3	8.7	19.4	11.5	12.0	13.0
13	*	*	12.2	11.5	2.7	3.2	8.4	5.5	17.8	12.5	12.4	15.0
13A	*	*	*	*	*	*	*	*	18.8	12.3	11.8	15.0
14	16.6	5.5	10.4	6.0	*	*	16.8	16.8	*	*	*	*
14A	*	*	*	*	*	*	*	*	16.6	5.0	*	*
15	16.6	14.8	16.6	11.6	3.8	3.8	7.2	7.2	17.3	15.3	*	*
16	16.6	10.4	11.0	9.2	*	*	9.7	16.8	19.5	12.4	15.7	13.0
17	18.6	10.6	10.6	8.0	6.9	11.2	9.6	12.4	*	*	15.6	12.9
18	18.2	10.6	*	*	6.8	11.6	9.8	12.5	20.0	11.4	13.9	15.9

TABLE K-2. (Continued)

Station	February 1983		May 1983		July 1983		November 1983		February 1984		June 1984	
	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	*	*	11.0	8.2	11.0	10.5	11.0	11.5	4.5	5.0	8.5	8.7
2	*	*	*	*	15.0	7.0	10.5	10.3	5.5	5.5	12.0	7.5
3	*	*	8.0	10.2	15.0	8.5	10.6	10.6	5.5	8.0	9.5	7.5
4	*	*	*	*	14.0	9.0	12.0	12.0	6.0	6.0	9.5	8.0
5-1	*	*	9.0	6.5	16.0	7.5	*	*	6.0	6.2	12.5	8.5
6	*	*	9.1	10.0	16.0	9.0	11.7	10.7	6.0	7.5	12.0	8.5
7	*	*	*	*	*	*	*	*	*	*	*	*
7A	*	*	9.3	11.4	15.0	11.0	13.0	10.5	5.5	8.0	10.5	10.5
8	*	*	11.7	11.3	16.0	11.5	15.0	12.5	5.5	11.0	14.0	12.5
9	*	*	9.0	10.1	15.5	10.0	11.0	11.0	9.0	11.0	13.0	11.5
10	*	*	*	*	11.0	10.0	16.5	12.5	5.0	5.5	9.5	9.5
11	*	*	8.6	6.8	17.0	8.0	11.2	17.0	6.5	7.4	11.5	11.0
12	*	*	9.3	10.4	16.0	9.5	12.0	13.0	6.0	12.8	12.0	11.0
13	*	*	10.0	7.5	16.0	8.5	17.5	12.3	6.8	9.5	10.5	7.0
13A	*	*	10.6	7.9	22.0	8.0	10.6	10.0	6.5	9.5	12.0	10.0
14		*	*	*	*	*	*	*	*	*	*	*
14A	*	*	8.4	6.0	17.5	6.5	*	*	*	*	*	*
15	*	*	*	*	*	*	*	*	*	*	*	*
16	6.3	9.8	10.2	12.5	18.5	11.5	*	*	5.0	8.5	12.5	13.0
17	*	*	13.1	12.0	18.0	12.0	13.5	13.5	5.5	9.0	13.0	13.0
18	*	*	11.3	12.0	19.0	11.5	13.3	13.0	5.5	9.5	13.0	13.0

* No sample/data at this station.

TABLE K-3 DISSOLVED OXYGEN (mg/l) FROM GEORGES BANK BENTHIC MONITORING PROGRAM REGIONAL STATIONS. DATA OBTAINED USING WINKLER TITRATION METHOD (W) OR OXYGEN PROBE (P).

Sta.	July 1981			November 1981			February 1982			May 1982			July 1982			November 1982		
	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3
1	6.67	6.69	6.68	6.25	6.22	6.28	10.32	10.33	10.32	10.24	10.32	*	8.77	8.99	8.90	8.75	8.36	8.67
2	6.24	*	*	6.30	6.21	6.20	10.19	10.18	10.15	10.26	10.23	10.17	8.50	8.50	8.51	8.36	8.31	8.37
3	5.62	5.62	5.53	5.40	5.44	5.50	9.41	9.28	9.40	8.28	8.52	8.62	6.30	6.32	6.31	7.21	7.30	7.34
4	6.77	*	*	6.31	6.40	6.33	10.78	10.53	10.50	9.37	9.39	9.40	9.04	8.94	9.04	8.14	8.28	8.15
5-1	*	*	*	5.01	5.09	5.10	10.18	10.05	9.94	9.33	9.33	9.35	7.55	7.79	7.99	7.25	7.32	7.28
6	5.60	5.74	5.76	5.62	5.43	5.58	9.13	9.04	9.05	9.10	9.20	9.29	6.11	6.31	6.13	6.09	6.25	6.28
7	4.23	*	*	4.42	4.33	4.16	8.88	9.15	9.03	6.57	6.63	6.52	*	*	*	*	*	*
7A	*	*	*	*	*	*	*	*	*	*	*	*	5.93	5.89	6.02	6.55	6.13	6.10
8	*	*	*	4.12	3.99	4.00	9.14	9.00	9.04	6.65	6.72	6.63	6.36	6.35	6.36	6.57	6.23	6.33
9	6.22	6.19	6.35	5.80	5.17	5.25	7.78	7.78	7.78	7.33	7.37	7.44	5.77	5.59	5.72	5.71	5.87	5.80
10	5.24	5.79	5.23	5.94	6.42	6.10	10.54	10.38	10.40	9.40	9.27	9.20	8.87	9.20	9.25	8.40	8.24	8.26
11	5.36	*	*	5.51	5.53	5.62	10.40	10.39	10.10	9.06	9.00	9.00	7.79	7.78	7.82	6.43	6.65	6.57
12	4.84	4.53	4.82	4.64	4.92	4.77	8.96	8.96	8.89	8.39	8.37	8.45	6.19	6.50	6.44	7.37	7.48	7.36
13	4.70	*	*	4.65	4.62	4.66	10.49	10.54	10.53	9.65	9.60	9.53	6.77	6.71	6.73	6.51	6.60	6.47
13A	*	*	*	*	*	*	*	*	*	*	*	*	6.92	6.11	6.11	6.32	6.36	6.31
14	6.55	6.23	6.25	5.44	5.47	5.42	*	*	*	9.09	9.39	9.19	*	*	*	*	*	*
14A	*	*	*	*	*	*	*	*	*	*	*	*	6.77	6.40	6.68	8.45	8.33	8.72
15	6.19	*	*	6.34	6.29	6.32	11.51	11.25	11.10	10.87	10.82	10.80	8.33	8.43	8.31	8.73	8.70	8.88
16	4.58	*	*	4.96	4.96	4.98	6.80	6.90	7.40	6.77	6.67	6.72	6.12	6.01	6.13	5.69	5.75	5.71
17	3.86	3.73	3.73	4.41	4.40	*	7.96	8.11	8.13	6.67	6.70	6.68	6.12	6.15	6.06	5.72	5.68	5.77
18	4.66	4.60	4.65	4.12	4.29	4.19	6.83	6.57	7.30	6.68	6.83	6.83	5.55	5.56	5.61	5.57	5.65	5.66

TABLE K-3 (Continued)

Sta.		February 1983			May 1983			July 1983			November 1983			February 1984			July 1984		
		Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3	Rep.1	Rep.2	Rep.3
1	W	10.54	9.61	9.70	9.66	9.89	9.89	9.58	7.53	9.64	8.33	8.40	8.27	10.10	9.94	10.12	9.79	9.81	9.75
	P	8.37	7.91	8.00	9.06	9.02	9.02	6.10	6.07	6.02									
2	W	9.20	9.33	9.33	9.85	9.94	9.82	8.53	8.49	8.50	7.62	7.59	7.61	9.56	9.51	9.55	9.52	9.44	9.45
	P	8.19	8.08	8.04	8.77	8.73	9.72	7.63	7.60	7.58									
3	W	8.08	8.02	8.20	8.64	8.51	8.82	7.57	7.82	7.76	7.18	7.17	7.24	8.22	7.95	8.08	8.56	8.50	8.59
	P	7.23	7.00	6.95	8.04	8.01	7.97	6.85	6.86	6.94									
4	W	*	*	*	11.08	9.40	9.35	9.31	9.20	9.14	8.19	8.49	8.49	10.14	10.12	9.60	9.66	9.68	10.18
	P	*	*	*	8.57	8.46	8.25	5.62	5.62	5.62									
5-1	W	9.30	9.27	9.38	8.85	8.96	9.07	8.41	8.67	8.73	7.78	7.91	7.96	9.55	9.30	9.20	9.40	9.38	9.45
	P	8.39	8.35	8.33	8.42	8.24	8.33	5.30	5.34	5.31									
6	W	7.91	7.98	8.01	7.33	7.83	7.84	7.87	7.91	7.12	7.44	7.39	7.39	8.71	8.65	8.61	8.88	8.85	8.82
	P	7.25	7.20	7.25	7.43	7.36	7.36	7.60	7.62	7.60									
7	W	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	P	*	*	*	*	*	*	*	*	*									
7A	W	6.06	6.27	6.22	6.25	6.29	6.02	6.31	6.48	6.60	5.85	6.05	5.91	6.16	6.45	6.19	6.92	6.95	7.04
	P	5.95	5.94	5.78	5.96	5.90	5.86	6.10	6.24	6.23									
8	W	7.40	7.21	7.23	5.87	6.00	6.05	5.07	5.10	5.12	5.76	5.77	5.85	6.43	6.48	6.38	6.22	6.10	6.20
	P	6.24	6.28	6.21	5.61	5.86	5.75	5.69	5.81	5.84									
9	W	*	*	*	6.83	6.84	6.74	*	*	*	7.10	7.27	7.27	6.34	6.23	6.10	6.80	6.73	6.80
	P	*	*	*	6.23	6.18	6.13	4.26	4.29	4.26									
10	W	10.00	9.81	10.35	9.56	9.53	9.79	9.78	9.32	9.71	8.48	8.56	8.50	9.83	9.80	9.77	9.55	9.57	9.55
	P	8.26	8.30	8.21	6.13	6.12	6.07	8.14	8.14	8.27									
11	W	*	*	*	9.25	9.22	9.33	7.71	7.93	*	7.24	7.22	7.29	9.21	9.38	9.45	9.23	9.03	9.08
	P	*	*	*	8.08	8.04	8.00	7.41	7.34	7.27									
12	W	*	*	*	8.15	8.38	8.24	2.22	1.99	1.86	6.48	6.58	6.17	7.39	7.24	7.18	7.26	7.18	7.29
	P	*	*	*	5.40	5.34	5.32	4.75	4.74	4.73									

TABLE K-3 (Continued)

Sta.		February 1983			May 1983			July 1983			November 1983			February 1984			June 1984		
		Rep. 1	Rep. 2	Rep. 3	Rep. 1	Rep. 2	Rep. 3	Rep. 1	Rep. 2	Rep. 3	Rep. 1	Rep. 2	Rep. 3	Rep. 1	Rep. 2	Rep. 3	Rep. 1	Rep. 2	Rep. 3
13	W	9.90	10.09	9.90	9.28	9.29	8.95	*	*	*	6.94	6.96	6.98	8.37	8.52	8.22	8.67	8.64	8.68
	P	8.63	8.57	8.78	8.18	8.12	8.07	5.25	5.22	5.23									
13A	W	*	*	*	9.00	8.57	8.40	*	*	*	4.3	7.02	7.24	9.10	9.0	9.23	8.84	8.76	8.77
	P	*	*	*	5.42	5.45	5.39	6.93	7.11	7.13									
14	W	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	P	*	*	*	*	*	*	*	*	*									
14A	W	6.49	6.74	6.47	8.52	8.37	8.20	7.76	7.64	7.79	*	*	*	*	*	*	*	*	*
	P	5.97	5.67	5.98	9.00	9.08	9.04	6.99	7.00	6.84									
15	W	9.65	9.70	9.70	9.13	9.09	9.19	*	*	*	*	*	*	*	*	*	*	*	*
	P	8.77	8.21	8.39	8.86	8.84	8.84	*	*	*									
16	W	6.95	6.99	7.03	6.35	6.40	6.52	6.48	6.42	6.47	5.71	5.99	5.73	7.68	7.47	7.26	7.00	6.90	6.89
	P	6.37	6.37	6.38	6.12	6.00	6.17	5.91	5.96	5.97									
17	W	7.76	7.81	6.72	5.46	5.56	5.55	6.40	6.30	6.30	6.05	5.73	5.78	8.16	8.23	7.98	6.75	6.83	6.85
	P	6.17	6.16	6.18	6.18	6.00	5.97	6.26	6.30	6.33									
18	W	*	*	*	6.33	6.35	6.46	6.50	6.33	6.14	5.56	5.46	5.44						
	P	*	*	*	6.69	6.37	6.54	5.76	5.70	5.81	5.18	4.96	4.97	7.78	7.45	7.61	7.10	7.07	7.08

* No sample/data for these replicates.