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Data Report ERL MESA-30



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DISTRIBUTION AND ABUNDANCE OF BENTHIC ORGANISMS  
IN THE NEW YORK-NEW JERSEY OUTER CONTINENTAL SHELF

John Pearce  
Janice Caracciolo  
Martha Halsey  
Leslie Rogers

Marine Ecosystems Analysis Program  
Boulder, Colorado  
December 1977

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NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

Environmental  
Research Laboratories

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Northeast Fisheries Center  
Highlands, New Jersey 07732

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Marine Ecosystems Analysis Program  
Boulder, Colorado  
December 1977



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Distribution and Abundance of Benthic  
Organisms in the New York-New  
Jersey Outer Continental Shelf\*

John Pearce, Janice Caracciolo,  
Martha Halsey, and Leslie Rogers

Division of Environmental Assessment  
Northeast Fisheries Center  
Highlands, New Jersey 07732

December 1977

\*These data were generated by personnel of the Division of Environmental Assessment, Northeast Fisheries Center, NMFS, with partial financial support from the NOAA-MESA-New York Bight Project. The data are being made available in the present form for timely assistance to user groups. The data are being further analyzed by staff members of the Northeast Fisheries Center and will form the basis for future publications.

## Introduction

Sandy Hook Laboratory, Northeast Fisheries Center, has been examining the impact of ocean waste disposal on the ecosystem of the New York Bight apex since 1968 (Pearce et al., 1976a; 1977). The New Jersey Coastal Study, initiated in 1972, extended our area of interest south to Cape May, New Jersey (Radosh, unpublished data)<sup>1</sup>. In 1974, the Alternate Dumpsite Study (DUPI) (Pearce et al., 1976b) and Baltimore Canyon Trough Investigation (Pearce, unpublished data)<sup>1</sup> yielded information on areas farther offshore.

The Outer Continental Shelf Survey was undertaken to provide information on a large area of the continental shelf beyond the 20 fm contour (Fig. 1). The information obtained from benthic samples taken from this area will be useful as a basis against which future changes in the ecosystem, due to natural or man-induced phenomena, can be evaluated. The five replicate grab samples from each station will provide a measure of within station variability.

This data report was prepared in order to provide machine listed data and certain statistical calculations, diversity and equitability (Shannon and Weaver, 1963; Pielou, 1969), con-

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<sup>1</sup>John Pearce and David Radosh are members of the staff of the Sandy Hook Laboratory, Northeast Fisheries Center, Highlands, N. J.

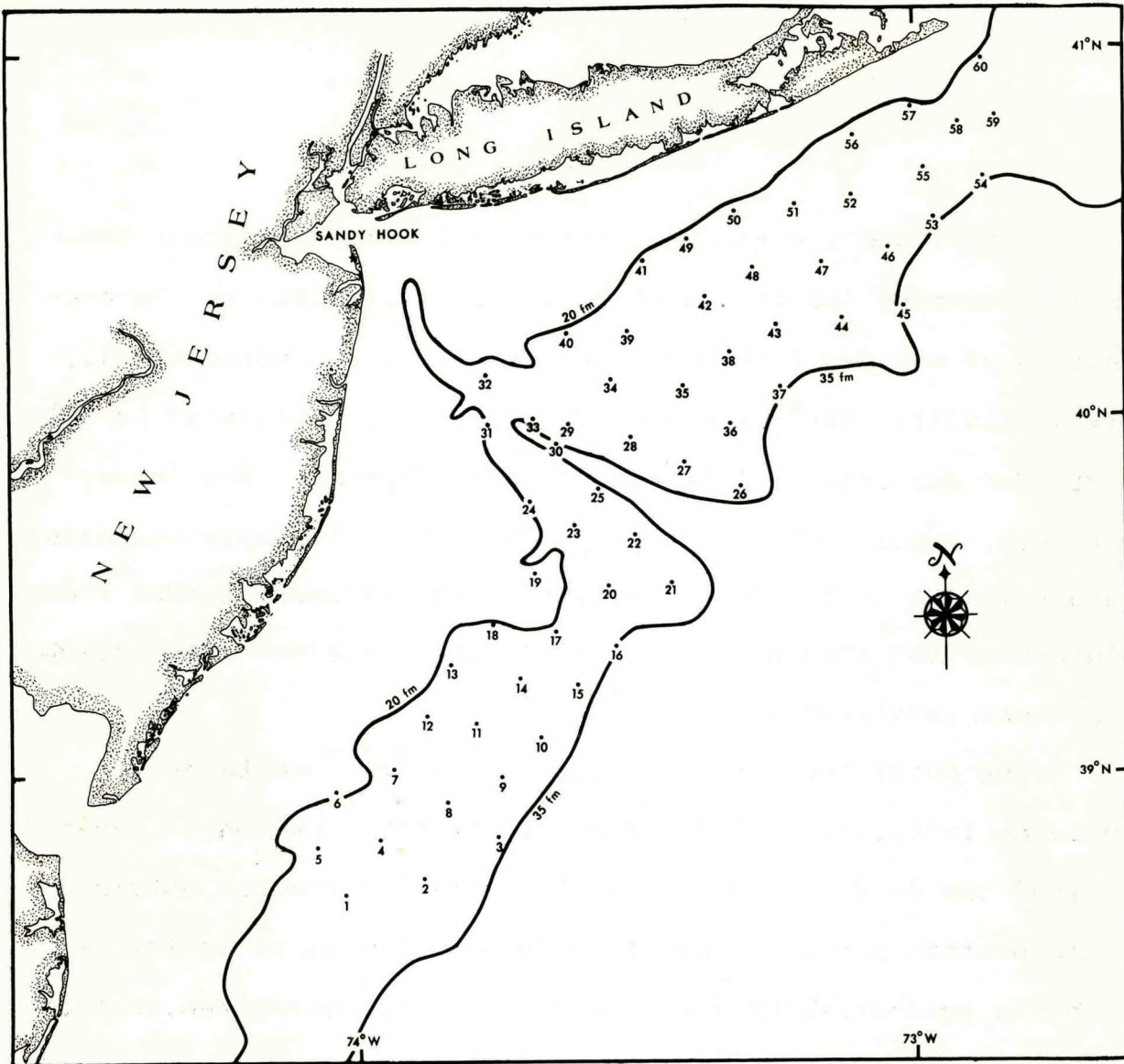


Figure 1. Outer continental shelf station positions.

cerned with the distribution and abundance of benthic organisms collected during this cruise.

### Materials and Methods

The outer continental shelf (OCS) sampling area consists of 60 stations (#1 through 60) located on the New York-New Jersey outer continental shelf, between the 20 and 35 fm contours, bounded by latitudes 30°40.3'N and 40°58.7'N.

In April 1975, five 0.1 m<sup>2</sup> Smith-McIntyre benthic grab samples were taken at each of the 60 sampling sites from on board the NOAA Ship Delaware II. Station positions were located and maintained by Raydist precision navigation. At each station, two 3.4 cm (inside diameter) sediment cores were removed from each grab, one for standard geological analyses (grain size distribution) and the other for heavy metals analyses. These cores were frozen in storage before they were analyzed.

Grain size distribution was determined by first wet-sieving a portion of each core sample through a 62 μ screen. Retained material was dried and then sieved through a series of 12 screens, ranging from 62 μ to 4 mm mesh size, which were placed on a vibratory shaker for 5 minutes. Sediment remaining on each sieve was weighed to 0.1 mg to determine



fractions of sands, silts, and clays present. Material passing through the 62  $\mu$  screen was placed in a 1000 ml sedimentation cylinder and stirred. Twenty ml portions were then pipetted off at precisely-timed intervals and depths in the cylinder to obtain coarse and fine fractions, which were dried at 105°C and weighed to 0.1 mg (J. Parks, unpublished data)<sup>2</sup>. Grain size data, presented by Parks as weight percentages retained on the various mesh sizes used, were converted to percentages of gravel, sand, and mud, using the Wentworth scale as a guide (Shepard, 1963). This conversion was made in order that this data might be presented in a form consistent with our established computer program.

Methods used for sediment heavy metals analyses are explained in detail in the paper by Greig, Wenzloff, and Pearce (1976).

The remainder of each grab sample was washed through a standard geological sieve with a 1.0 mm mesh size. All macrofauna collected in grab samples was fixed in 10% buffered formalin and later transferred to and preserved in 70% ethanol containing 5% glycerol.

At the Sandy Hook Laboratory, dissecting microscopes were used as an aid in sorting out organisms from preserved macrofauna samples. All organisms were identified to the

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<sup>2</sup>Dr. James Parks is the Director of the Center for Marine and Environmental Studies, Lehigh University, Bethlehem, Pa.

species level, whenever possible, using standard keys and descriptions and consultations with recognized taxonomists.

Station positions and counts of organisms per species in each grab were machine listed and coded. The community found at each station was analyzed for total number of individuals per grab (N), total number of species (S), equitability ( $J' = H'/H' \text{ max} = H'/\ln S$ ) and diversity ( $H' \approx -\sum \frac{n_i}{N} \ln \frac{n_i}{N}$  where  $n_i$  = number in the  $i$ th species).

### Results

Machine listed species lists and counts with diversity and equitability calculations and data obtained from sediment and heavy metals analyses, for each of the 60 stations, are presented as Table 1.

No detailed interpretations of these data will be made at this time.

### Literature Cited

- Greig, R., D. Wenzloff, and J. Pearce. 1976. Distribution and abundance of heavy metals in finfish, invertebrates, and sediments collected at deepwater disposal site 106. Mar. Pollut. Bull. 7(10): 185-187.
- Pearce, J., J. Caracciolo, A. Frame, L. Rogers, M. Halsey and J. Thomas. 1976a. Distribution and abundance of benthic organisms in the New York Bight, August 1968-December 1971. NOAA-NMFS. NOAA DR ERL MESA-7. 114 p.

- Pearce, J., L. Rogers, J. Thomas, J. Caracciolo, M. Halsey and J. McNulty. 1976b. Distribution and abundance of benthic organisms in the outer New York Bight and proposed alternate disposal sites, June 1974 and February 1975. NOAA-NMFS. NOAA DR ERL MESA-10.
- Pearce, J., L. Rogers, J. Caracciolo, and M. Halsey. 1977. Distribution and abundance of benthic organisms in the New York Bight apex, five seasonal cruises, August 1973 through September 1974. (In press).
- Pielou, E. 1969. An introduction to mathematical ecology. Wiley-Interscience, New York. 286 p.
- Shannon, C. and W. Weaver. 1963. The mathematical theory of communication. Univ. of Ill. Press, Urbana. 117 p.
- Shepard, F. 1963. Submarine Geology (Second Edition). Harper and Row, Publishers, New York. 558 p.

Table 1. Machine listings of species counts, diversity and equitability calculations, sediment grain size, and heavy metals data from 60 grab samples taken in the OCS sampling area.

CRUISE DATE 25/04/75  
 STATION NUMBER CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH METERS  
 001 C1 38403N 74023W 49.9

TEMPERATURE 8.30C SALINITY 34.12PPT DISSOLVED OXYGEN 9.2MG/L  
 % ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SCRT SKEWNESS KURTOSIS  
 3.0 86.94 13.15 0.15 0.15 1.23 0.24 2.72

CHROMIUM 4.60PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 4.0PPM ZINC 12.0PPM  
 NO. SPECIES 23 NO. INDIVIDUALS 335 DIVERSITY 1.1962 EQUITABILITY 0.3815

- SPECIES LISTING
- SCALIBREGMA INFLATUM
  - PCLYDORA LICNI
  - MACROCLYEMENE ZONALLIS
  - CYMNELLA TCFGUATA
  - LETOCHONE DISPAR
  - THARYX ACUTUS
  - ELCHNE RUEFOCINCTA
  - SPIOPHANES BOMBYX
  - PRINCOSPIC STEENSTRUP1
  - AGLADPHARUS CIRCINATA
  - LUMBRINERIS TENUIS
  - AFICIDEA MASSI
  - POLYCIRRUS PHCSPHOREUS
  - APPARETE ARCTICA
  - CPEPODA
  - DIASTYLIS SCULPTA
  - ANELISGA AGASSIZI
  - BYRLIS SERRATA
  - JUNCIOLA TPRCRATA
  - CYCLOCARDIA BCREALLIS
  - A STARTE UNCATATA
  - CERASTODERMA PINNULATUM
  - ECHINARACHNIUS FARMA
- CCUNT
- 1
  - 2
  - 8
  - 3
  - 3
  - 4
  - 5
  - 254
  - 1
  - 1
  - 10
  - 1
  - 1
  - 2
  - 1
  - 1
  - 1
  - 16
  - 7
  - 3
  - 1
  - 1
  - 1
  - 1
  - 8

\*\*\*\*\*

CRUISE DATE 25/04/75  
 STATION NUMBER CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH METERS  
 001 C2 38403N 74023W 49.9

TEMPERATURE 8.30C SALINITY 34.12PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SCRT SKEWNESS KURTOSIS  
 0.0 97.09 2.92 0.34 0.35 0.66 0.24 1.33

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.8PPM

8

CRUISE DATE STATION NUMBER  
17504 25/04/75 001

TEMPERATURE 8.30C SALINITY 34.12PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
0.2% 89.97 9.74 0.17 1.20 0.21 1.77

CHROMIUM 5.2PPM COPPER 3.8PPM NICKEL 4.0PPM LEAD 10.0PPM ZINC 13.8PPM

\*\*\*\*\*

CRUISE DATE STATION NUMBER  
17504 25/04/75 001

TEMPERATURE 8.30C SALINITY 34.12PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
0.1% 73.53 26.34 0.09 0.13 1.98 0.48 1.45

CHROMIUM 5.6PPM COPPER 4.8PPM NICKEL 4.0PPM LEAD 14.0PPM ZINC 15.2PPM

\*\*\*\*\*

CRUISE DATE STATION NUMBER  
07504 25/04/75 001

TEMPERATURE 8.30C SALINITY 34.12PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
0.0 94.78 5.21 0.18 0.17 0.78 0.05 1.23

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 4.0PPM ZINC 10.8PPM

CRUISE DATE STATCN NUMBER GRAF LATITUDE LONGITUDE DEPTH  
 D7504 25/04/75 002 01 38428N 73460W 49.5

TEMPERATURE 8.7UC SALINITY 34.12PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SANC % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.0 97.31 2.69 C.28 0.25 0.59 0.15 1.11

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 4.0PPM

NO. SPECIES 23 NO. INDIVIDUALS 69 DIVERSITY 2.5925 EQUITABILITY 0.826E

SPECIES LISTING COUNT

RHYNCOCCELA 2  
 STENELATS LIMICOLA 1  
 DELONERIS MAGNA 1  
 ARICIDEA JEFFREYSII 1  
 ARICIDEA MASSI 2  
 LUMBRINERIS TENUIIS 2  
 GLYCERA SP. 3  
 SPICPHANES BCMBYX 17  
 TRAVISIA CARNEA 3  
 POLYCIPIRUS PHOSPHOREUS 3  
 AGLAPHAMUS CIRGINATA 1  
 EUCHONE RUBRICINCTA 1  
 AMPHARETE ARCTICA 1  
 LEICCHONE DISPAR 3  
 NERIS ZONATA 1  
 CYPEPODA 1  
 NYALIS SERRATA 1  
 TRICHOPOXUS EPISTOMUS 2  
 PICTHAUSTICRIUS MGLEVI 5  
 ERICHTHONIS RUBRICORNIS 1  
 SCLARIFELLA INHUNDIBULUM 1  
 EASIS DIRECTUS 2  
 ECHINAPACHNIS PARMA 3  
 14

STATION NUMBER  
 CRUISE 002  
 SYMAP  
 GR#8  
 CI  
 LATITUDE 3650N  
 LONGITUDE 73305W  
 DEPTH METERS 59.0

DATE 25/04/75  
 TEMPERATURE 8.40C  
 SALINITY 34.05PPT  
 DISSOLVED OXYGEN 9.2MG/L

% ORGANICS 0.0  
 % GRAVEL 99.99  
 % SAND 0.0  
 MEAN 0.37  
 MEDIAN 0.36  
 SKEWNESS -0.09  
 KURTOSIS 1.06

CHROMIUM 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 5.4PPM

NC. SPECIES 23  
 NC. INDIVIDUALS 52  
 DIVERSITY 2.6316  
 EQUITABILITY 0.8393

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCHOCCELA	1
PRASCOLESCMA SF.	1
MARPHYSA BELLII	2
PARAPIONGYLLIS LONGICIRRATA	1
AGLAOPHAPS CIRGINATA	1
ARICIDEA JEFFREYSII	2
NEHTYS BUCERA	1
SCALIBREGMA INFLATUM	1
GNATADELLA GRACILIS	13
CAULLERIELLA MILLARIENSIS	3
TARYX ANNULOSUS	1
PCLYDORA CINCTARUM	1
GLYCERA DIBRANCHIATA	3
DITICNEREIS MAGNA	3
MCFECLEYENE ZCNALIS	2
LMBRINERIS ACUTA	17
PCTODRILUS SYMPTIOTICUS	2
CIRROLANA CINCHARUM	6
TRICHOPODIXUS EPISTOMUS	4
PHCXOCEPHALUS HCLBOLLI	4
JINGIOLA IRROBATA	1
CPEPODA	4
ECHINARACHNUS PARMA	6
	16



CRUISE DATE STATION NUMBER  
 07504 25/04/75 004

GRAB GRAB LATITUDE LONGITUDE DEPTH  
 01 38498N 73555W 40.7

TEMPERATURE 7.70C SALINITY 33.44PPT DISSOLVED OXYGEN 9.2MG/L  
 % CRGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.24 95.77 C.0 C.40 0.58 -0.04 1.09

CHTCMIUM 4.0PPM CCFPR 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 4.4PPM  
 ND. SPECIES 27 ND. INDIVIDUALS 370 DIVERSITY 1.3444 EQUITABILITY 0.4079

SPECIES LISTING	COUNT
RHYNCHOCELA	4
PHASCOLICN STROMBI	1
GLYCERA DIBRANCHIATA	4
EUCHONE RUBROCIATA	3
MACROGLYME ZENALIS	10
CLYMENELLA TORQUATA	7
LEIOCHONE CISPAR	3
CHONE INFUNDIBULIFORMIS	1
APPRODITA HASTATA	1
SICPHANES ECWYX	1
NEREIS GRAYI	272
AMPHARETE ARCTICA	1
LUMBRINERIS TENUIS	5
LUMBRINERIS FRAGILIS	4
STHENELEIS LIMICOLA	1
AGLAPHAMUS CIRCINATA	1
PHYLODOCE ARENAE	11
APPELISCA VERRILLI	1
PSUDOPALSTORILUS CAROLINIENSIS	1
APPELISCA VACCRIUM	5
PSUDONCTIA GRILLGUA	3
TRICHOPTICXUS EPISTOMUS	1
BYBLIS SEPPATA	16
UNCIOLA IRACRATA	4
CIRCLANA FELITA	4
ENASIS DIRECTUS	2
ECHINARACHNIUS PARMA	1
	1
	3

CRUISE DATE 25/04/77  
 STATION NUMBER 005  
 GRAZ CI 38485N 74088W  
 DEPTH METERS 44.4

TEMPERATURE 8.20C SALINITY 33.81PPT DISSOLVED OXYGEN 5.4MG/L

% ORGANICS 1.34 % SAND 95.98 % MUD 2.68 MEAN 0.40 MEDIAN 0.40 SORT 0.59 SKEWNESS -0.01 KURTOSIS 1.21

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 8.2PPM

NO. SPECIES 19 NO. INDIVIDUALS 158 DIVERSITY 2.0738 EQUITABILITY 0.7043

- SPECIES LISTING
- GLYCERA DIERANCHIATA 1
  - LUMBRINERIS FRAGILIS 1
  - LUMBRINERIS TENUIS 2
  - LUMBRINERIS ACUTA 26
  - NEPHTHYS BUCERA 1
  - AGLAOPHAWUS CIRGINATA 3
  - GONIADILLA GRACILIS 59
  - TARYX ACUTUS 15
  - TARYX ANNULATUS 10
  - AMPHARETE ARCTICA 3
  - MACROCLYMENE ZONALLIS 20
  - CYPRIPEDA 5
  - LEPTOGNATHA CAECA 3
  - CIRCLANA POLITA 1
  - ABELLISCA VADCRUM 1
  - CAPRELLA LINEARIS 1
  - CANCER IRACFATUS 1
  - EGHINARACHNIUS FARMA 5
  - ASTERIAS FCRPRESII 1

CCLNT

CRUISE DATE 25/04/75  
 D7504  
 STATION NUMBER 005  
 CRUISE SYMAP 01  
 GRAF 01  
 LATITUDE 38576N  
 LONGITUDE 74047W  
 DEPTH METERS 38.5

TEMPERATURE 0.0 C  
 SALINITY 33.75PPT  
 DISSOLVED OXYGEN 9.6MG/L

% ORGANICS 3.9%  
 % GRAVEL 96.04  
 % SAND 0.0  
 % MUD 0.56  
 MEAN 0.54  
 MEDIAN 0.66  
 SORT SKEWNESS 1.19  
 KURTOSIS

CHROMIUM 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 10.2PPM

NC. SPECIES 27  
 NC. INDIVIDUALS 629  
 DIVERSITY 1.3791  
 EQUITABILITY 0.4184

SPECIES LISTING	COUNT
RHYCHOCCELA	2
ARICIDEA JEFFREYSII	1
GONIADIELLA GRACILIS	45
THARYX ACUTUS	264
THARYX ANNULOSUS	8
MACROCLYMENE ZONALIS	8
CLYMENELLA TORQUATA	1
NEREIS GRAYI	4
PHERUSA AFFINIS	1
GLYCERA DIBRANCHIATA	1
GLYCERA SP.	2
LUMBRINERIS FRAGILIS	2
LUMBRINERIS TENLIS	2
LUMBRINERIS ACUTA	2
LEICCHONE DISPAR	1
DRILONEIREIS MAGNA	1
EXOGONE HEES	1
SPIO FILICIFRONS	2
PACTODRILUS SYMBIOTICUS	266
CANCER IRRCRATUS	1
COPEPODA	3
MELITA DENTATA	2
NEOMYSIS AMERICANA	2
BYLLIS SERRATA	2
APPELISCA AGASSIZI	1
UNCIOILA INERMIS	1
PROXOCEPHALUS HOLBOLLI	1

CRUISE DATE 24/04/75  
 STATION NUMBER 907  
 CRUISE SYMAP C1  
 GRAZ C1  
 LATITUDE 39C13N  
 LONGITUDE 73522W  
 DEPTH METERS 35.2

TEMPERATURE 7.20C  
 SALINITY 33.54FPT  
 DISSOLVED OXYGEN 9.6MG/L

% ORGANICS 0.15  
 % GRAVEL 99.85  
 % SAND 0.0  
 % MUD 0.043  
 MEAN 0.43  
 MEDIAN 0.43  
 SORT 0.51  
 SKEWNESS -0.07  
 KURTOSIS 1.04

CHROMIUM 5.6PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 9.0PPM

NO. SPECIES IS 113  
 NO. INDIVIDUALS 113  
 DIVERSITY 1.5282  
 EQUITABILITY 0.6554

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCOCCELA	2
MACROCLYMENE ZONALLIS	1
SIPHIANES BOMBAYX	1
ARCTIDEA JEFFREYSII	1
LEIDCHONE DISPAR	1
NEPHTYS RUCERA	2
AGLAPHAMUS CIRCINATA	2
THARYX ACUTUS	1
CIRCLANA PCLITA	1
RYBLIS SERRATA	17
TRICHOPTOXUS EPISTOMUS	17
SIPHONOCETES SMITHIANUS	1
UNCIDLA IRACRATA	3
PSEUDUNCICLA CELLIQUA	46
OROTHAUSTORILS WIGLEYI	8
ECHINARACHNIUS PARMA	9

STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 CRUISE SWAMP 01 38560N 73409W METERS  
 07504 25/04/77 008 44.4

TEMPERATURE 8.0WC SALINITY 33.45PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.99 97.24 1.76 C.45 0.45 0.62 -0.04 1.10

CHEMNUM 5.6PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 8.9PPM

NO. SPECIES 24 NO. INDIVIDUALS 172 DIVERSITY 2.4245 EQUITABILITY 0.7625

SPECIES LISTING	COUNT
LUMBRINERIS ACUTA	36
LEICHDNE DISPAR	2
ARICIDEA JEFFREYSII	7
DRILONEREIS MAGNA	5
CAULLERIELLA KILLARIENSIS	5
THARYX ACUTUS	4
MACROCLYMENE ZONALLIS	3
LUMBRINERIS TENUIS	3
ELCHDNE RUROCIACUTA	1
SFICPHANES BCMBYX	1
GCIINADDELLA GRACILIS	28
AGLADOPHAMUS CIRGINATA	2
OPHELIA CENITICULATA	1
ST-EMELAIS LIMICOLA	1
EXCGONE TERES	1
PRCTODRILLUS SYMBICTICUS	21
CCP EPDCA	3
LEPTOGNATHA CAECA	1
CIRLOANA PCLITA	3
TRICHOPTICXUS EPISITOMUS	3
PHOXOCEPHALLUS FLBCLLI	1
BYBLIS SERRATA	5
FNSTIS DIRECTUS	1
ECHINARACHNILLUS PARMA	6

STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 CRUISE 009 01 3900N 73294W METERS  
 25/04/75 51.7

TEMPERATURE 8.20C SALINITY 33.85PPT DISSOLVED OXYGEN 9.9MG/L

\* ORGANICS % GRAVEL 76.20 % SANC 23.73 MEAN 0.10 MEDIAN 0.14 SORT 1.92 SKENNESS 1.54 KURTOSIS 0.41

CHROMIUM 8.0PPM COPPER 4.0PPM NICKEL 5.0PPM LEAD 6.0PPM ZINC 19.2PPM

NO. SPECIES 28 NO. INDIVIDUALS 137 DIVERSITY 2.7765 EQUITABILITY 0.8332

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCHOCELA	1
THARYX ACUTUS	2
THARYX ANNULSUS	2
CAULERPELLA KILLARIENSIS	2
DEILONEREIS MAGNA	2
ARICIDEA JEFFREYSII	3
SCALIBREGMA INFLATUM	1
AMPHARETE ARCTICA	1
LUMBRINERIS ACUTA	3
GONIADELLA GRACILIS	4
GLYCERA DIBRANCHIATA	4
AGLAPHAMUS CIRCINATA	2
LETCHECNE CISPAR	5
MACROCLYMENE ZONALLIS	4
EXOIGONE HEDES	25
SPIOPHANES BCMBYX	1
EUCHONE RUBROCIANTA	21
EUCTODRILUS SYMBIOTICUS	4
BYRLIS SERRATA	19
PHOXOCEPHALUS HOLBOLLI	3
TRICHOPELAXUS EPISTOMUS	1
UNCIOLA IRRCRATA	10
PETALOCARSIA CECLIVIS	3
DIASYLIS SCULPTA	1
FLOTTEA TRILCBA	3
CHIRIDGTEA ALMYRA	1
COLUS PUBESCENS	1
ECHINAPACHNIUS PARMA	1
	8

CRUISE DATE STATICA NUMBER  
 07504 25/04/75 CRUISE SYMAP GRAB LATITUDE DEPTH  
 010 C1 35C68N 73208W METERS  
 59.0

TEMPERATURE 9.50C SALINITY 33.83PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 1.74 95.55 2.71 0.45 0.43 0.79 -0.14 1.07

CHLORUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 9.6PPM

NO. SPECIES 43 NC. INDIVIDUALS 161 DIVERSITY 3.3078 EQUITABILITY 0.8754

SPECIES LISTING	COUNT
CERANTHOPUS AMERICANUS	1
PASCALUSOMA SP.	3
EUCHENE RUBECINCTA	4
PHYLLODOCE ARENAE	1
EXGONE HEES	4
DILONEREIS MAGNA	4
LUMBRINERIS TENLIS	3
TPARYX ACUTUS	4
POLCIRRUS PHOSPHOREUS	7
TPARYX ANNULOSUS	3
PTAMILLA NEGLECTA	1
NEREIS GRAVI	1
GLYCERA DIRRANCHIATA	3
MACROGLYENE ZENALIS	16
CLYMENELLA TORQUATA	1
LEICOGONE DISPAR	1
SPIOPHANES BCMBYX	7
CHAETAZONE SETOSA	8
ARIGIDEA JEFFREYSII	4
CAULERPELLA KILLARINENSIS	1
AGLAPHOMUS CIRCINATA	6
STHENELEIS LIMICLA	1
AMPHARETE ARCTICA	6
PROTODRILUS SYMBIOTICUS	2
PTILANTHURA TRICARINA	3
LEPTOGHELIA SAVIGNYI	1
DIASYLLIS SCULPTA	2
EDUTEA TRILoba	1
TRICHOPEXUS EPISTOMUS	11
SIPHONOCETES SMITHIANUS	3
AMPELISCIA AGASSIZI	1
BYLLIS SERRATA	24
PHOXOEPHALLUS HULLOLLI	1
UNCIOLOA INERMIS	1
UNCIOLOA IRRCRATA	3
ERICHTHONILUS HUNTERI	1
MATRELLA DISSIPILUS	4
CAPULCMAE RADIATA	1
MARGARITES UMBILICATUS	1
ARCTICA ISLANDICA	1
CERASTODERMA PINNULATUM	1
LYONSIA HYALINA	6
ECHINAFACHNIUS PARVA	3

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
77504 25/04/75 010 02 39068N 73208W 59.0

TEMPERATURE 9.50C SALINITY 33.83PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
1.21 89.85 8.95 0.45 0.45 1.27 0.28 2.41

CHROMIUM 4.6PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 11.4PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
77504 25/04/75 010 C3 39068N 73208W 59.0

TEMPERATURE 9.50C SALINITY 33.83PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
3.30 95.36 1.35 0.52 0.52 0.78 -0.10 1.03

CHROMIUM 5.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 10.6PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
77504 25/04/75 010 C4 39068N 73208W 59.0

TEMPERATURE 9.50C SALINITY 33.83PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
1.60 95.53 2.87 0.42 0.39 0.81 -0.14 1.18

CHROMIUM 6.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 12.8PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
77504 25/04/75 010 05 39068N 73208W 59.0

TEMPERATURE 9.50C SALINITY 33.83PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
4.45 93.72 1.82 0.64 0.62 0.84 -0.09 0.97

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 10.6PPM



CRUISE DATE STATCN NUMBER GRAP LATITUDE LONGITUDE DEPTH  
 17504 25/04/75 011 C1 30G90N 73353W 51.7  
 TEMPERATURE 8.00C SALINITY 33.61PPT DISSOLVED OXYGEN 9.4MG/L  
 % ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SCRT SKENNESS KURTOSIS  
 6.0M 90.66 3.25 C.50 0.47 0.57 -0.22 1.42  
 CHEMUM 5.2PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 10.6PPM  
 NC. SPECIES 19 NC. INDIVIDUALS 116 DIVERSITY 2.1762 EQUITABILITY 0.7351

SPECIES LISTING

CERIANTEOPSIS AMERICANUS	1
PRONTOBILIS SYMBIOTICUS	4
EUCHONE RUBROCIPIATA	1
GLYCERA DIERACIPIATA	2
DRILONERIS MAGNA	1
PCLYDORA SCIALIS	1
SPIOPHANES BCMBYX	34
SIGALTON ARENICOLA	2
NEPHTYS PUCERA	4
AGLAPHAMUS CIRGINATA	1
ECTEA TRILGEB	2
CIRCLANA PCLITA	14
ACANTHHAUSTORIUS MILLISI	1
TRICHOPOXUS EPISTOMUS	8
PROTHALSTRIUS WIGLEYI	1
UNCIOLA IRORATA	1
BYBLIS SEPRATA	25
SIPHONOCETES SMITHIANUS	1
ECHINARACHNIUS PARVA	14

COUNT

CRUISE DATE STATION NUMBER  
 77504 24/04/77 012  
 CRUISE SWAMP GRAB LATITUDE LONGITUDE DEPTH  
 012 C1 39100N 73455W 37.1

TEMPERATURE 7.10C SALINITY 33.46FPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 5.61 94.38 0.0 0.53 0.52 0.85 -0.24 1.42

CHLOROPHYTUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 9.4PPM

NO. SPECIES 19 NO. INDIVIDUALS 52 DIVERSITY 2.4506 EQUITABILITY 0.8323

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCHOCELA	1
SIGALION ARENICOLA	1
ORILONEREIS MAGNA	2
LEICHOE DISPAR	2
ARICIDEA MASSI	2
GLYCERA SP.	1
TARYX ANNULOSUS	2
SPIOPHANES BCMBYX	10
NEPHTYS BUCERA	1
NEPHTYS PICTA	1
AGLAPHAPUS CIRCINATA	2
PROTODRILLUS SYMBIOTICUS	2
LEPTOGNATHA CAECA	2
CHIRIDCTEA TUFTSI	1
PSEUDONCTOLA ORLIQUUA	3
PROTHAUSTORIUS WIGLEYI	2
ACANTHICALSTORILUS SPINCSUS	1
PANDORA GOULDIANA	1
ECHINARACHNIUS FARMA	15

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 07504 24/04/74 013 C1 39188N 73400W 40.7

TEMPERATURE 7.30C SALINITY 33.73PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 1.52 58.47 C.0 C.48 0.47 0.65 -0.13 1.03

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.8PPM

NO. SPECIES 14 NO. INDIVIDUALS 37 DIVERSITY 2.2791 EQUITABILITY 0.8636

SPECIES LISTING	COUNT
RHYNCHOCNELLA	3
NEPHTYS PICTA	1
AGLADHAPMUS CIRCINATA	2
LEICCHONE DISPAR	1
THARYX ACUTUS	1
SPIOPHANES BCMARYX	2
SCOLOPLUS ACUTUS	1
GLYCERA DIBRANCHIATA	1
CIRROLANA POLLITA	1
PROTODHAUSTERIUS MIGLEYI	1
COROPHIUM GRASSICORNE	2
TRICHOPOXUS EPISTOMUS	5
RYBLIS SERRATA	6
ECHINARACHNIUS PARMA	10

22

STATION NUMBER  
 CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH  
 014 C1 35163N 73257W 44.4

COULISE DATE 25/04/75

TEMPERATURE 9.50C SALINITY 33.76PPT DISSOLVED OXYGEN 9.3MG/L

% GRAVEL 0.0 % SAND 99.99 % MUD 0.0 MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 0.29 0.29 0.56 -0.03 0.94

CHLOROPHYLL 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 6.6PPM  
 NC. SPECIES 24 NC. INDIVIDUALS 157 DIVERSITY 2.3118 EQUITABILITY 0.7274

SPECIES LISTING	COUNT
RHYNCHOCELA	1
ARICIDEA MASSI	1
SFICPHANES EMBRYX	40
AGLAOPHANUS CIRCINATA	3
APPARETE ARCTICA	6
PARONIS GRACILIS	1
ELCHONE RUBROCINCTA	25
PHYLOTROCHE ARENAE	1
LMBRINERIS FRAGILIS	1
LMBRINERIS SP.	1
GLYCERA CIERANCIATA	1
HARMOTHE EXTENUATA	1
CULLERIELLA KILLAPIENSIS	1
MAGROCLYMENE ZONALIS	1
LEICCHNE DISPAR	3
PCTODRITILUS SYMBICTICUS	15
LEPTOGNATHA CAECA	1
CIRCLANA POLITA	1
UNCIOLA INERMIS	1
BYALLIS SERBATA	6
TRICHOPECYLUS EFISTICMUS	9
CYLLUS PURESCENS	7
ENSIS DIRECTUS	2
ECHINADACHNILUS PARWA	1
	14

CRUISE DATE STATION NUMBER  
 D1504 25/04/79 CRUISF SYMAP GRAB LATITUDE DEPTH  
 015 015 01 39151N 73130W 62.7

TEMPERATURE 9.00C SALINITY 33.77PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEMNESS KURTOSIS  
 0.0 59.59 C.0 G.26 0.27 0.41 0.21 0.98

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 6.8PPM

NO. SPECIES 25 NO. INDIVIDUALS 146 DIVERSITY 3.0921 EQUITABILITY 0.8697

SPECIES LISTING	COUNT
CERIANTHEPUS AMERICANUS	10
PHASCOLISMA SF.	12
MACROCLYMENE ZONALIS	4
CYMNELLA TORQUATA	1
CALLERIELLA KILLARJENSIS	2
AMPHARETE ARCTICA	1
GLYCERA DIERACHNIATA	3
PLECTYDORA SP.	2
LUMRINERIS TENNIS	2
POLYCIRRLS FHCSPHREUS	5
SPIOPHANES BOMBIX	5
AGLADPHAMUS CIRCINATA	3
THARYX ANNULLELUS	1
NEREIS GRAYI	1
DIASTYLIS GUACRISPINOSA	9
DIASTYLIS SCULPTA	6
FUCORELLA EMARGINATA	2
PYLANTHURA TRICARINA	2
BYLLIS SERRATA	6
ERICHTHONIS RUBRICORNIS	1
ERICHTHONIS PUBRICCORNIS	2
TRICHOPHICXUS EPISTOMUS	2
AMPELISCA AGASSIZI	29
UNCITOLA IPORRATA	4
MITRELLA DISSIPILUS	4
MARGARITES LVBILICATUS	1
LUNATIA IMMACULATA	1
UNIC BIVALVE #2	3
CERASTODERMA PINNULATUM	6
PANDORA GULDIANA	1
FASIS NIRECTUS	4
LYONSIA HYALINA	1
ASTARTE SUECILLATERA	2
CYLOCARDIA BCFRALLIS	1
FCFINARACHNIUS PARMA	1
FCFINARACHNIUS PARMA	2

27

STATION NUMBER  
 CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH  
 27504 25/06/75 016 C1 29220N 73049W 55.4

TEMPERATURE 8.30C SALINITY 33.72PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SCPT SKEMNESS KURTOSIS  
 0.3% 99.63 0.0 0.39 0.37 0.68 -0.23 1.12

CHEMICAL 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 2.9PPM  
 NO. SPECIES 54 NO. INDIVIDUALS 355 DIVERSITY 3.0235 EQUITABILITY 0.7580

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTEOPSIS AMERICANUS	7
EDHARDSTA SIPHUNCULIDES	1
PASCALION STROMBI	2
ANPHARETE ARCTICA	3
THARYX ACUTUS	73
GENIADFLA GRACILIS	8
GLYCERA SP.	1
GLYCERA DIBRANCHIATA	1
SIPHANES BCMYX	46
POTAMILLA NEGLECTA	5
CHONE INFUNDIBULIFORMIS	1
ARICIDEA JEFFREYSII	1
LUMBRINERIS FRAGILIS	1
CRILNEREIS LONGA	1
SYLLIS GRACILIS	2
LEIOCHONE DISPAR	1
PHYLLODOCE ARENAE	2
SCALIBREGMA INFLATUM	9
ETEONE LONGA	1
EYECONE HEES	6
HARNOTHONE EXTENSATA	1
NEREIS GRAYI	1
AGLADPHAMUS CIRGINATA	10
LUMBRINERIS ACUTA	4
LUMBRINERIS TENUIS	5
MACROCLYME NE ZONALLIS	22
EUCHONE RUBROCINCTA	8
PLYDOCPA SCIALIS	4
POLYCIPTERUS PHOSPHOREUS	2
POTAMILLA RENIFRUMIS	1
TREBELLIDAE	1
CIRRATULUS CIRRATUS	1
PROCTODRIUS SYMBICTICUS	3
DIASYLLIS GLADRISPINOSA	3
DIASYLLIS SCULPTA	24
EUDORELLA EMARGINATA	3
PTILANTHURA TRICARINA	1
MELITA DENTATA	1
RYBILIS SERATA	1
SEUDONCICOLA ORLIQUUA	1
PHODOCEPHALUS FOLIBOLLI	1
AMPELISCA VADORUM	6
UNCICOLA IRRCRATA	43
UNCICOLA INERMIS	13
SPICHTHONIS RUBRICORNIS	2

LINATIA TRISERIATA  
MITRELLA DISSIMILIS  
CRENELLA GLANDULA  
FASIS DIRECTUS  
LYONSIA HYALINA  
CERASTOCERMA PINNULATUM  
TYONE UNISEMITA  
ECHINARACHNIUS PARMA  
OPHIURIOIDEA

1  
8  
1  
3  
1  
2  
2  
2  
1

CRUISE DATE 25/04/75  
 STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 CRUISE 017 C1 39247N 73177W METERS 48.0

TEMPERATURE 9.00C SALINITY 33.72FFT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.17 99.83 0.0 0.35 0.34 0.48 -0.10 1.10

CHLOROPHYLL 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 3.6PPM

NO. SPECIES 26 NO. INDIVIDUALS 117 DIVERSITY 2.5295 EQUITABILITY 0.7764

SPECIES LISTING

SPECIES LISTING	COUNT
NEMATODA	1
PHASCOLION STROMBI	1
LEICHCNE DISPAR	3
ARABELLA IRICICLR	1
SCALIBREGMA INFLATUM	2
AGLACPHAMUS CIRCINATA	2
EXOGONE HESES	1
GLYCERA DIERANCIATA	5
GLYCERA SP.	1
ARIGIDEA MASSI	1
SPIPHANES EMBYX	24
PHYLLODOCE ARENAE	2
EUCHCNE RUBROCIINGTA	27
NEREIS GRAYI	1
AMPHARETE ARCTICA	2
THARYX ACUTUS	1
SHENELAIS LIMICOLA	1
CAULLERIELLA KILLARIENSIS	1
PACTODRILUS SYMBIOTICUS	2
CYPERODA	13
DIASTYLIS QUADRISPINDOSA	1
RYALIS SERRATA	2
TRICHOPOPHOXUS EPISTOMUS	8
MITRELLA DISSIMILIS	3
ENASIS DIRECTUS	1
ECHINARACHNIDIS PARMA	1
	10



CRUISE DATE 24/04/75  
 STATION NUMBER CRUISE SYMAP 019  
 GRAF C1  
 LATITUDE 39256N  
 LONGITUDE 73306W  
 DEPTH METERS 40.7

TEMPERATURE 7.80C  
 SALINITY 33.80PPT  
 DISSOLVED OXYGEN 2.6MG/L

% ORGANICS 13.34  
 % GRAVEL 86.67  
 % SAND 0.0  
 % MUD 0.0  
 MEAN 0.43  
 MEDIAN 0.88  
 SORT 1.13  
 SKEWNESS 0.96  
 KURTOSIS

CHROMIUM 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 3.2PPM  
 NO. INDIVIDUALS 40  
 DIVERSITY 2.7524  
 EQUITABILITY 0.9778

SPECIES LISTING

SPECIES LISTING	COUNT
RYNCHOCYCLA	1
SCALIBREGMA INFLATUM	1
LEIOCHONE DISPAR	4
GLYCERA DIERANCIATA	1
ARICIDEA MASSI	1
AGLAPPHAMUS CIRCINATA	1
APPHARETE ARCTICA	1
SPIDPHANES BOMBYX	1
EUCHONE RUEROCINGIA	1
PCLYCIRRLUS PHCSPHCREUS	1
APHRODITA HASTATA	1
PCTODRILLUS SYMPTICTILUS	1
CJROLANA POLITA	1
EOTEA TRILCEA	1
ACANTHOPHALSTORILUS SPINACUS	1
TRICHOPOXUS EPISTOMUS	1
BYBLIS SFRAATA	6
PHOXOCYPHALLUS HOLGOLLI	1
UNCIOILA IRECRATA	2
CGRPHIUM CRASSICORNE	1
ERICHTHCNITUS HUNTERI	1
STENOPLELSTES INERPIS	1
FCHINARACHNITUS PARMA	9

CRUISE DATE STATION NUMBER GRA/B LATITUDE LONGITUDE DEPTH  
 07504 24/04/79 C19 C1 35343N 73218W 33.4

TEMPERATURE 7.50C SALINITY 33.51PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS 1.4% % GRAVEL 98.55 % SAND 0.00 % MUD 0.59 MEAN 0.58 MEDIAN 0.66 SKEWNESS 1.01 KURTOSIS -0.04

CHPOMIUM 4.00PPM COPPER 4.00PPM NICKEL 4.00PPM LEAD 6.00PPM ZINC 2.00PPM

NO. SPECIES ID 23 DIVERSITY 1.8330 EQUITABILITY 0.7561

SPECIES LISTING	CCUNT
OPHELIA CENTICULATA	1
MACROCLYMENE ZENALIS	1
SCNIADELLA GRACILIS	10
PLECTODORVILLEA BIARTICULATA	1
EMOGONE HEBES	1
LEMERINERIS ACUTA	4
LEMERINERIS FRAGILIS	1
CYPRIDIANA POLITA	1
CHIRIDICTEA CAECA	2
DAMMONGYX NEBILIS	1

STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 CRUISE SYMAP CI 39321N 73062W 46.2  
 CRUISE DATE 25/04/74 02C

TEMPERATURE 9.00C SALINITY 33.65PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.16 94.68 5.16 0.15 0.16 0.76 -0.11 1.66

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 8.4PPM

NO. SPECIES 21 NO. INDIVIDUALS 117 DIVERSITY 2.3656 EQUILIBRABILITY 0.7770

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCHOCOELE	1
NEMATODA	1
ECHINODERMATA	2
PARAPIONOSYLLIS LONGICIRRATA	1
ELSYLLIS BLCMSTRANDI	1
TARVX ACITLUS	1
GLYCERA SP.	1
ARICIDEA JEFFREYSII	18
GONIADELLA GRACILIS	19
MACROCLYBENE ZENALIS	13
LUMBRINERIS SP.	17
PACTODRILUS SYMBIOTICUS	23
CEREPEDA	2
DECAPOD	1
UNCINOLA TRICRATA	1
TRICHOPECHUS EPISCOPUS	3
PHOXOPHALUS HOLBOLLII	1
CIRCLANA FLLITA	2
NASSARIUS TRIVITTATUS	3
FASIS DIRECTUS	1
ECHINAPACHNIUS FARMA	1
	5

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STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 CRUISE SYMAP 02 39321N 73062W 46.2  
 CRUISE DATE 25/04/74  
 TEMPERATURE 9.00C SALINITY 33.65PPT DISSOLVED OXYGEN 9.3MG/L  
 CHROMIUM 4.2PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 9.2PPM

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 E7504 25/04/79 020 C3 39321N 73062W 46.2

TEMPERATURE 9.00C SALINITY 33.65PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 96.30 3.70 0.18 0.17 0.53 -0.15 1.22

CHEMNUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.8PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 E7504 25/04/79 020 C4 39321N 73062W 46.2

TEMPERATURE 9.00C SALINITY 33.65PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 97.47 2.53 0.18 0.17 0.43 -0.20 0.99

CHEMNUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.8PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 E7504 25/04/79 020 C5 39321N 73062W 46.2

TEMPERATURE 9.00C SALINITY 33.65PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 96.70 3.29 0.18 0.17 0.56 -0.23 1.34

CHEMNUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.4PPM

CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CT504	26/04/75	021	C1	35325N	72527W	59.0
TEMPERATURE	9.00C	SALINITY	33.67PPT	DISSOLVED OXYGEN	9.2MG/L	
% ORGANICS	% GRAVEL	% SAND	% MUD	MEAN	MEDIAN	SKURTOSIS
0.04	99.98	0.0	0.28	0.25	0.39	1.16
CHROMIUM	4.0PPM	COPPER	4.0PPM	NICKEL	4.0PPM	LEAD
						6.0PPM
ZINC	6.4PPM					
NO. SPECIES	34	NO. INDIVIDUALS	163	DIVERSITY	2.7237	EQUILIBRABILITY
					0.7724	
SPECIES LISTING						
						COUNT
CERTANTHOPSIS AMERICANUS						1
PHASCOLITA STRIMBI						1
GONIADDELLA GRACILIS						28
ELICHNE RUEFOCINCTA						4
POTAMILLA NEGLECTA						1
EXOGONE FERES						1
AMPHARETE ARCTICA						1
SCALIBREGMA INFLATUM						10
THARYX ACUTUS						3
LEIDOGONE DISPAR						13
DRILOMERIS MAGNA						2
LUMBRINERIS ACUTA						27
LUMBRINERIS FRAGILIS						1
APRODITA HASTATA						1
STHEMELAIS LIMICOLA						1
SPIDPHANES BOMBYX						1
AFRICIDEA JEFFREYSII						1
POLYETIRRUS PHOSPHOREUS						1
CAULLERIELLA KILLARIENSIS						2
PROTODRILLUS SYMBIOTICUS						7
CCP-EPODA						1
DIASYLLIS GUACRISPINDS?						2
CITROLANA PELITA						1
JUNCINOLA IRRODATA						5
JUNCINOLA INERMIS						2
TRICHOPOHIXUS EPISTOMUS						3
AMPELISCA ACASSIZI						1
RYLLIS SERATA						14
MYRELLA DISSIMILUS						1
CERASTODERMA PINNULATUM						1
ENSIS DIRECTUS						1
HOLTHURCITEA						1
ECHINARACHNIDUS PARMA						7
OPHTHURIDIA						2

CRUISE DATE STATION NUMBER  
 T1504 26/04/75 022  
 TEMPERATURE 9.90C SALINITY 33.66PPT GRAB CI LATITUDE 35407N LONGITUDE 73006W DEPTH 55.4 METERS  
 % ORGANICS % GRAVEL % SAND % MUD MEAN C.17 MEDIAN 0.17 SORT 0.36 SKENNESS -0.17 KURTOSIS 0.84  
 CHLORINE 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 11.6PPM  
 NO. SPECIES 9 NO. INDIVIDUALS 10 DIVERSITY 2.1640 EQUITABILITY 0.9849

SPECIES LISTING  
 THARYX ANNULOSUS  
 LEICICHAE CISPFA  
 LUMBRINERIS ACUTA  
 AMPHARETE ARCTICA  
 CIPCLANA POLITA  
 JUNCTOLA PRORATA  
 ACANTHOHAUSTORIUS SPINCUSUS  
 COROPHIUM CRASSICRNE  
 DECAPOD

CCUNT  
 1  
 1  
 1  
 1  
 1  
 2  
 1  
 1  
 1  
 1

CRUISE DATE 24/04/75 STATION NUMBER GR18 LATITUDE LONGITUDE DEPTH  
 CT504 023 SYMAP C1 39425N 73137W METERS  
 38.9

TEMPERATURE 7.30C SALINITY 33.59FPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS 9 GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.21 99.79 0.0 0.47 0.47 0.61 -0.07 0.53

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 5.0PPM ZINC 6.6PPM

NO. SPECIES 18 NO. INDIVIDUALS 60 DIVERSITY 2.3386 EQUITABILITY 0.8051

SPECIES LISTING	COUNT
GLYCERVA NERANCHIATA	1
LEIOCHNE DISPAR	1
ARICIDEA JEFFREYSII	3
EKONGE HERES	2
EUCHONE RUBROCINCTA	2
TARAX ANNULCUS	1
PROTODORVILLEA BIARTICULATA	1
LUMBRINERIS ACUTA	13
MACROCLYMENE ZONALIS	6
AGLADPHAMUS CIRCINATA	1
SIPHANES EOMBYX	2
GONIADIELLA GRACILIS	16
PROTODORILLUS SYMBIOTICUS	1
MELITA DENTATA	2
PHOXOCEPHALUS HOLBOLLI	1
UNCITOLA IRREGRATA	5
CANCER IRREGRATUS	1
ENSIS DIPLECTIS	1

CRUISE DATE 24/04/77  
 CRUISE 07504  
 STATION NUMBER 024  
 SYMAP  
 GRAB C1  
 LATITUDE 35468N  
 LONGITUDE 73224W  
 DEPTH METERS 40.7

TEMPERATURE 7.30C  
 SALINITY 33.46PPT  
 DISSOLVED OXYGEN 9.2MG/L

% ORGANICS 0.1%  
 % GRAVEL 00.92  
 % SAND 0.0  
 % MUD 0.52  
 MEAN 0.52  
 MEDIAN 0.52  
 SORT 0.63  
 SKEWNESS -0.01  
 KURTOSIS 0.54

CHLORIDE 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 4.2PPM  
 NO. SPECIES 21  
 NO. INDIVIDUALS 174  
 DIVERSITY 1.6729  
 EQUITABILITY 0.5455

SPECIES LISTING

SPECIES LISTING	COUNT
THARYX ANNULOSUS	1
GALLERIELLA MILLARIENSIS	1
GONIADIELLA GRACILIS	5
THARYX ACUTUS	16
AMOHARETE ARCTICA	1
PRINOSPIDIA STEENSTRUPPI	1
LUMBRINERIS ACUTA	1
LUMBRINERIS FRAGILIS	18
ASICIDEA JEFFREYSII	1
EXOGONE HERES	6
AGLADIPHAWUS CIRCINATA	5
HARMOTHOE EXTENUATA	1
GLYCERA DIBRANCHIATA	2
PARACNIS LYRA	3
LEICCHENE CISPAR	1
PROTOPRILUS SYMBIOTICUS	1
FCCTEA TALLCEA	102
LUNCIDIA PORCRATA	1
PHOXICEPHALUS HOLBOLLI	1
MELITA DENTATA	4
ECHINAPACHYDILUS PARMA	2
	1



STATION NUMBER  
 CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH  
 025 C1 35485N 73088W METERS  
 49.9

DATE 26/04/75  
 TEMPERATURE 8.80C SALINITY 33.63PPT DISSOLVED OXYGEN 8.8MG/L

% ORGANICS % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.51 99.50 C.0 C.41 0.40 0.59 -0.11 1.17

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 6.2PPM

NO. SPECIES 20 NO. INDIVIDUALS 43 DIVERSITY 2.5677 FOUITABILITY 0.8571

SPECIES LISTING	COUNT
NEMATODA	1
LEICCHNE DISPAR	1
SCALIBREGMA INFLATUM	2
ELCTONE RUEPDCINCTA	1
THARYX ACUTUS	3
THARYX ANNULOSUS	2
AGLADPHAMUS CIRGINATA	1
LUMBRINERIS ACUTA	1
DILINERIS MAGNA	6
GENTADELLA GRACILIS	1
GLYCERA DIBRANCHIATA	12
GLYCERA SP.	1
PROTODRILLUS SYMBIOTICUS	1
CCEPPODA	1
CIRCLANA FELLITA	1
UNCIOLEA IRROGATA	1
RYLLIS SERRATA	2
PHOXOCEPHALUS HCLBCLLI	1
ENSIS DIRECTUS	1
ECHINARACHNIUS FARMA	1
	3

CRUISE DATE 23/04/75  
 07504  
 STATION NUMBER  
 CRUISE SWAMP 026  
 GRAB 01  
 LATITUDE 39490N  
 LONGITUDE 72375W  
 DEPTH METERS 57.2

TEMPERATURE 6.70C  
 SALINITY 33.45PPT  
 DISSOLVED OXYGEN 9.6MG/L

% ORGANICS 0.0  
 % GRAVEL 99.99  
 % SAND 0.0  
 % MUD 0.34  
 MEAN 0.33  
 MEDIAN SORT 0.53  
 SKEWNESS -0.11  
 KURTOSIS 1.06

CHLORIDE 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 8.4PPM  
 NO. SPECIES 24  
 NO. INDIVIDUALS 91  
 DIVERSITY 2.3318  
 EQUITABILITY 0.7237

SPECIES LISTING	COUNT
LEIDCHONE DISPAR	6
DRILONEREIS MAGNA	1
THARYX ACUTUS	2
PHYLLODOCE ARENAE	1
LUMRINERIS ACUTA	1
SPIOPHANES BCMBYX	26
GONIADILLA GRACILIS	1
ARIGIDEA JEFFREYSII	25
AMPHARTE ARCTICA	3
HARWITHE EXTENUATA	1
SCALIREGMA INFLATUM	1
EUCHONE RUBROGINCTA	1
APARELLA TRICLCR	1
PRCTODRILLUS SYMBIOTICUS	2
CYPEPODA	1
OSTRACCEA	6
PHOXIPHALUS HOLBOLLI	1
UNCIGLA IRRCRATA	1
SIPHONDECEYES SMITHIANUS	2
TRICHOPTICXUS EPISTOMUS	2
DECAPOD	1
ENSIS DIRECTUS	1
ASTARTE CASTANEA	2
ECHINARACHNUS PARMA	1
	2

STATION NUMBER  
 CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH  
 027 01 3952.5N 72500W 55.4

CRUISE DATE 24/04/75  
 TEMPERATURE 7.20C SALINITY 33.52PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIA SORT SKENNESS KURTOSIS  
 1.8W 96.04 2.15 C.31 0.31 0.56 -0.16 1.29

CHROMIUM 4.2PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 6.6PPM

NO. SPECIES 24 NO. INDIVIDUALS 184 DIVERSITY 2.4016 EQUITABILITY 0.7557

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTHEOPSIS AMERICANUS	2
SCALIBREGMA INFLATUM	10
AMPHARETE ARCTICA	10
THARYX ANNULOSUS	1
THARYX ACUTUS	11
SPIOPHANES BOMBAY	17
EUCHONE RUBRICINCTA	24
GONIADIELLA GRACILIS	1
GLYCERA DIBRANCHIATA	1
NEREIS GRAYI	1
PHYLLODOCE ARENAE	1
LEICHCONE DISPAR	1
LEMBRINERIS FRAGILIS	1
MACROCLYMENE ZOMALIS	1
CLYMENELLA TORQUATA	2
DIASTYLIS QUADRISPINOSA	1
PETALOSARISIA DECLIVIS	5
PILANTHURA RICARINA	1
UNCIOLOA IRORATA	1
RYBLIS SERRATA	44
PHCXCERPHALUS HELICELLI	34
CERASTODERMA PINNULATUM	1
ENSIS DIRECTUS	4
ECHINARACHNUS PARVA	2
	8

CRUISE DATE  
D7504 24/04/77

STATION NUMBER  
CRUISE SWAMP  
028

GRAV  
C1

LATITUDE  
39570N

LONGITUDE  
73017W

DEPTH  
METERS  
48.0

TEMPERATURE 7.20C

SALINITY 33.55ppt

DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
0.0 97.93 2.09 0.41 0.41 0.54 0.02 1.02

CHEMISTRY

5.2ppm

COPPER 4.0PPM

NICKEL

4.0PPM

LEAD

6.0PPM

ZINC 7.4PPM

NO. SPECIES 29

NO. INDIVIDUALS 228

DIVERSITY 2.4202

EQUITABILITY 0.7187

SPECIES LISTING

SPECIES LISTING	COUNT
THARYX ACUTUS	46
ANPHARETE ARCTICA	3
GLYCERA DITERANCIATA	2
LUMBRINERIS ACUTA	16
SCALIBREMA INFLATUM	4
STHENELEIS LIMICOLA	1
PARAPLIONOSYLLIS LONGICIRRATA	1
DEILONEREIS MAGNA	2
LUMBRINERIS TENNIS	3
LUMBRINERIS FRAGILIS	4
EXYGCNE PEBES	2
GONIADDELLA GRACILIS	25
ARICIDEA JEFFREYSII	7
ELCHONE RUBRICINCTA	3
HARMOTHOE EXTENUATA	5
SEICPHANES FEMBRUX	1
NEREIS GRAYI	1
PHOLDE MINUTA	2
AGLAPHAMUS CIRCINATA	1
LEICCHONE DISPAR	1
MACROGLYME ZENALIS	4
PROTODRILLIS SYMBICTILUS	47
EPICHTHANTUS RUBRICORNIS	14
ANPELISCA MACRICEPHALA	3
RYBLIS SERRATA	1
PHOXOCEPHALUS HCLBCELLI	5
ENSIS DIRECTUS	2
ARCTICA ISLANDICA	1
MARGARITES UMBILICATUS	1
	1

CRUISE DATE STATION NUMBER  
 07504 24/04/79 029

GRAB LATITUDE LONGITUDE DEPTH  
 01 3992N 73148W 55.4

TEMPERATURE 7.10C SALINITY 33.51PPT DISSOLVED OXYGEN 9.8MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 96.43 2.58 0.25 0.25 0.43 0.22 0.97

CHROMIUM 5.6PPM COPPER 4.0PPM NICKEL 4.4PPM LEAD 6.0PPM ZINC 5.2PPM

NO. SPECIES 35 NO. INDIVIDUALS 487 DIVERSITY 2.2660 EQUILIBILITY 0.6372

SPECIES LISTING	COUNT
CERANTHENSIS AMERICANA	10
PHASCOLION STROMBI	1
SCALIBREGMA INFLATUM	7
AMPHARETE ARCTICA	2
DRILONERIS LONGA	1
NINDE NIGRIPES	10
AGLADIPHAMUS CIRGINATA	1
LUMBRINERIS TENUIS	24
EUCHONE RUBROCIENTA	32
LACNICE CIRRATA	10
SPIDOPHANES BOMBAYX	10
PELLYCIRRUS PHOSPHOREUS	20
TEREBELLIDAE	3
PHOLOE MINUTA	1
THARYX ACUTUS	1
THARYX ANNULOSUS	3
NEREIS GRAYI	3
CHONE INFUNDIBULIFORMIS	1
STERNASPIS SCUTATA	1
PHOTODRILUS SYMBIOTICUS	1
DIASTYLIS SCULPTA	7
DIASTYLIS GUAFRISPINOSA	2
AMPELISCA AGASSIZI	169
AEGININA LONGICORNIS	99
ECOTEA TRILICBA	6
EUDORELLA EMARGINATA	2
CASCO BIGELWII	7
ERIGTHENIS HUNTERI	4
LEPTOCHEILUS PINGUIS	4
CERASTODRIMA PINNULATUM	3
YCIDIA LIMATULA	15
FUSUS DIRECTUS	2
ASTARTE CASTANEA	1
LICIMA SP.	1
PERIPLUMA FRACILIS	3
	10

STATION NUMBER  
 CRUISE 030  
 SYMAP  
 GRAB CI  
 LATITUDE 35562N  
 LONGITUDE 73177W  
 DEPTH METERS 55.4

TEMPERATURE 8.30C  
 SALINITY 33.54PPT  
 DISSOLVED OXYGEN 9.4MG/L

% COAGULANT 3.6%  
 % SAND 97.41  
 % MUD 2.56  
 MEAN 0.36  
 MEDIAN 0.34  
 SORT 0.41  
 SKEWNESS -0.17  
 KURTOSIS 1.10

CHLOROPHYLL A 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 5.2PPM  
 LEAD 6.0PPM  
 ZINC 15.4PPM

NO. SPECIES 66  
 NO. INDIVIDUALS 652  
 DIVERSITY 2.4223  
 EQUILIBIABILITY 0.8168

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTHEPUS AMERICANUS	1
ECHAPODIA SIPHUNCULOIDES	1
RHYNCHOGCELIA	2
HEMATODA	3
NINDE NIGRIPES	42
LEBRINERIS TENUIS	35
DRILOMERIS MAGNA	5
POTAMILLA NEGLECTA	11
CHONE INFUNDIBULIFORMIS	9
EUCHONE RUFROSCINCTA	64
LAGOME SP.	3
DIERUSA AFFINIS	9
NEPTYS INCISA	1
GAIADA MACULATA	3
SPIDIANES BOMBYX	16
DEICOSPID STEENSTRUP1	12
OCLYDORA GALLEPYI	1
SPID FILICORNIS	1
EACNICE CIRRATA	9
SCALIBREGMA INFLATUM	32
ARCTIDEA JEFFREYSII	1
PARACNIS GRACILIS	1
ANDHARETE ARCTICA	3
MELINNA CRISTATA	3
TEREBELLIDAE	6
TEREBELLIDES STROEMI	1
POLYCIPOUS PHOSPORBUS	1
HARTMANIA MCCREI	8
HARTMANIA MCCREI	2
HARTMANIA MCCREI	2
HARTMANIA MCCREI	4
NECTOMASTUS LATFRIGENS	4
NECTOMASTUS LATFRIGENS	2
NECTOMASTUS AMBISETA	11
RHODINE LOVENI	1
NEPESIS GRAYI	1
EXOGONE HERES	1
EXOGONE HERES	4
EXOGONE VERUGERA	1
THARYX ANNULOSUS	39
THARYX ACUTUS	1
SCOLOPLUS ACUTUS	60
SCOLOPLUS ACUTUS	3
SCOLOPLUS ACUTUS	3
SCOLOPLUS ACUTUS	36
SCOLOPLUS ACUTUS	3
DIASTYLIS GLADRISPINOSA	3
EUDORELLA EMARGINATA	9
DIASTYLIS SCULPTA	2
DIASTYLIS SCULPTA	3
DIANTHURA TRICARINA	2
DIANTHURA TRICARINA	1
LEPTOGNATHA CAECA	1
LEPTOGNATHA CAECA	2

UNCIOLOA INERMIS	2
UNCIOLOA IRROBRATA	5
CASCO BIGELMI	5
AMPELISCA AGASSIZI	62
LEPTOCHEIRUS PINGUIS	25
BYBLIS SERRATA	1
AMPELISCA VADORUM	1
ARGISSA HAMATIPES	1
ERICHTHENIUS RUBRICRINIS	2
AMPELISCA MACROCEPHALA	6
AEGININA LONGICRINIS	1
CANCER IRROBRATUS	2
MITRELLA DISSIPILUS	4
ALVANIA HARPA	3
CFANELLA GLANDULA	4
ASTARTE UNCLATA	18
CERASTODERMA PINNULATUM	17
CYCLOCARPITA BCREALIS	3
PERIPLCMA FRAGILIS	12
PITAR MORRHUANA	1
LICTNA SF.	3

CRUISE DATE 26/04/75 STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 01504 26/04/75 030 02 39562N 73177W 55.4  
 TEMPERATURE 8.30C SALINITY 33.54PPT DISSOLVED OXYGEN 9.4MG/L

\* ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.07 99.92 0.0 C.24 0.32 0.56 -0.15 1.07  
 CHEMISTRY 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 5.0PPM ZINC 11.0PPM

CRUISE DATE 26/04/75 STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 07504 26/04/75 030 C2 39562N 73177W 55.4  
 TEMPERATURE 8.30C SALINITY 33.54PPT DISSOLVED OXYGEN 9.4MG/L

\* ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.0 99.83 0.17 0.31 0.31 0.53 -0.08 1.08  
 CHEMISTRY 4.2PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 5.0PPM ZINC 12.2PPM

CRUISE DATE 26/04/75 STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 01504 26/04/75 030 G4 39562N 73177W 55.4  
 TEMPERATURE 8.30C SALINITY 33.54PPT DISSOLVED OXYGEN 9.4MG/L

\* ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.0M 95.78 0.13 C.26 0.35 0.58 -0.12 1.05  
 CHEMISTRY 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 8.6PPM

CRUISE DATE 26/04/75 STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 07504 26/04/75 030 C5 39562N 73177W 55.4  
 TEMPERATURE 8.30C SALINITY 33.54PPT DISSOLVED OXYGEN 9.4MG/L

\* ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.0 99.49 0.50 0.31 0.30 0.56 -0.11 1.11  
 CHEMISTRY 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 8.8PPM

43



STATION NUMBER  
 CRUISE DATE 24/04/75  
 CRUISE 031  
 SYMAP  
 GRAF CI  
 LATITUDE 39593N  
 LONGITUDE 73318W  
 DEPTH METERS 37.1

TEMPERATURE 6.90C SALINITY 33.47PPT DISSOLVED OXYGEN 5.4MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 6.80 93.20 0.0 0.48 0.43 0.99 -0.44 1.48

CHROMIUM 5.6PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.2PPM

NO. SPECIES 17 NO. INDIVIDUALS 50 DIVERSITY 2.3680 EQUITABILITY 0.8358

SPECIES LISTING

SPECIES LISTING	COUNT
AMPHARETE ARCTICA	3
LMBRINERIS ACUTA	4
LMBRINERIS FRAGILIS	2
DELONEREIS MAGNA	1
TFARYX ACUTUS	5
AGLADP HAWLUS CIRGINA TA	3
ARICIDEA JEFFREYSII	1
GCNIADDELLA GRACILIS	7
PROTODRILLUS SYMBIOTICUS	15
DIASTYLIS GUADRISPINOSA	1
LEPTOGNATHA CAECA	1
EOTEIA TRILCBA	1
BYBLIS SERRATA	1
UNCIOLA IRROGRATA	1
TRICHOPHXUS EFISTICMUS	2
ENSIS DIRECTUS	1
ECHINARACHNIUS PARMA	1

CRUISE 27504 DATE 23/04/77 STATION NUMBER 032  
 CRUISE 032 GRAB 01 LATITUDE 40072N LONGITUDE 73319W DEPTH 38.9 METERS

TEMPERATURE 7.40C SALINITY 33.50 PPT DISSOLVED OXYGEN 9.2MG/L

% GRAVEL 2.61 % SAND 57.39 % MUD 0.0 MEAN 0.55 MEDIAN 0.53 SDRT 0.67 SKENNESS 1.16 KURTOSIS 1.16

CHEMISTRY 4.0PPM COPPER 4.0PPM NICKEL 4.2PPM LEAD 6.0PPM ZINC 12.6PPM  
 NO. SPECIES 36 NO. INDIVIDUALS 601 DIVERSITY 1.9382 EQUITABILITY 0.5405

SPECIES LISTING

SPECIES	COUNT
EDWARDSIA SIPUNCULOIDES	2
CERIANTHEOPSIS AMERICANTIS	4
PHYCHOCOCLEA	4
SPIDPHANES BCMRYX	1
EUCHONE RUBROCIINCTA	274
PERUSA AFFINIS	52
AGLAPHAMUS CIRCINATA	2
GLYCERA DIERANCIATA	2
AMPHARETE ARCTICA	4
TABARYX ACUTUS	2
NINCE NIGRIPES	11
MACROCLYMENE ZENALIS	5
LUMBRINERIS TENUIS	3
PHYLLOCCE ARENAE	3
PYLICIPRUS PHOSPHOREUS	2
CDEPNOJA	2
DIASYLLIS GUERISPIINDSA	1
DIASYLLIS SCULPTA	1
EUCCRELLA EMARGINATA	5
PILANTHURA TRICARINA	2
CEROLANA POLITA	9
ECCTEA TAILCBA	1
TRICHOPOICXUS EFISTOMUS	1
RYELIS SERRATA	2
APPELISCA MACRICEPHALA	3
AMPELISCA VADORUM	1
AMPELISCA ACASSIZI	1
CASCO BIGELCMI	20
FRICHTHONIS RUBRICORNIS	4
LEPTOCHEIRUS PINGUIS	139
HARPINIA PRICPINGUA	2
UACIOLA IRRERATA	2
VITRELLA DISSIMILUS	1
NUCULA PROXIMA	12
ARCTICA ISLANDICA	5
PHGPRONIS ARCHITECTA	7
	1
	1

STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 CRUISE DATE CRUISE SYMAP C1 40172N 73220W METERS  
 07E04 23/04/79 033 37.1

TEMPERATURE 7.30C SALINITY 33.45PPT DISSOLVED OXYGEN 8.8MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.34 99.68 C.0 C.49 0.48 0.61 -0.10 0.97

CHLORINE 4.8PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.4PPM

NO. SPECIES 14 NO. INDIVIDUALS 33 DIVERSITY 2.3752 EQUITABILITY 0.9000

SPECIES LISTING COUNT

RHYNCHOCELA 1  
 SIFIPHANES EGMBYX 5  
 AGLAOPHANTUS CIRCINATA 2  
 AMPHARETE ARCTICA 2  
 DRILONERFIS LONGA 6  
 EICHONE RUBROCINCTA 1  
 GLYCERA SP. 3  
 GLYCERA DITERANCIATA 2  
 ARICIDEA JEFFRENSII 1  
 MACROGLYME ZONALIS 1  
 FUDRELOPSIS DEFORMIS 2  
 PROTODHAUSTORIUS WIGLEYI 1  
 TRICHOPEXUS EPISTOMUS 1  
 ECHINARACHNIDUS PARMA 1  
 6

CRUISE DATE STATION NUMBER  
 77504 23/04/75 034

TEMPERATURE 6.90C SALINITY 33.38PPT

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 1.31 98.69 0.0 0.48 0.46 0.64 -0.15 1.10

CHLORUM 4.0PPM COPPER 4.0PPM NICKEL 4.4PPM LEAD 6.0PPM ZINC 9.0PPM  
 AT. SPECIES 19 NO. INDIVIDUALS 65 DIVERSITY 2.3759 EQUITABILITY 0.8083

SPECIES LISTING

AGLADOPHAMUS CIRCINATA	COUNT
SPIOPHANES BICMBYX	2
AMPHARTE ARCTICA	6
GLYCERA DIPANCTIATA	1
GENTADELLA GRACILIS	1
EXCCONE HERES	1
LIBRINERIS ACUTA	3
DRILONEPEIS MAGNA	1
ELPTONE PUERCINCTA	1
DELICIRILUS PHICSPHOREUS	1
ARIGIDEA MASSI	1
ARIGIDEA JEFFREYSII	1
THARYX ACUTLS	1
C MILLERIFILLA KILLARIENSIS	17
C CPEPDA	8
BYALIS SERRATA	1
UNCIGLA INERMIS	1
TRICHOPHCYX EPIDISTOMUS	1
ECHINARACHNIUS PARVA	3
	12

STATION NUMBER GR/LR LATITUDE LONGITUDE DEPTH  
 CRUISE DATE STATION SWAMP OI LATITUDE LONGITUDE METERS  
 D7504 23/04/75 035 40050N 72506W 49.9

TEMPERATURE 6.50C SALINITY 33.39PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 9.14 90.87 0.0 0.64 0.61 1.02 -0.19 1.07

CHLOROPHYLL 4.0PPM COPPER 4.0PPM NICKEL 4.8PPM LEAD 6.0PPM ZINC 10.0PPM

NO. SPECIES 30 NC. INDIVIDUALS 171 DIVERSITY 2.4891 EQUITABILITY 0.7318

SPECIES LISTING	COUNT
RYNCHOCCELA	1
NEMATODA	7
PLECTODRILUS SYMBIOTICUS	6
SCALIBREGMA INFLATUM	7
EUCHONE RUBROCINCTA	2
ARICIOEA JEFFREYSII	4
SPIOPHANES BOMBAY	6
PHYLLONCE ARENAE	1
MICROCLYMENE ZONALIS	2
LUMBRINERIS ACUTA	7
LUMBRINERIS TENUIS	1
EMGONE HERES	8
ACLAOPHAWUS CIRGINATA	1
GENTADELLA GRACILIS	4
AMPHARETE ARCTICA	8
NEPES GRAYI	3
GLYCERA DIBRANCHIATA	1
DRILONERIS MAGNA	2
THARYX ACUTUS	71
CICEPODA	3
LEPTOGNATHA CAECA	8
CIRCLANA ECLITA	1
PSEUDUNCIDLA ORLIQUA	6
RYBLIS SERRATA	1
TRICHOPTICXLS EPISTOMUS	3
HIPPOMEDON SERPATUS	1
CERASTODERMA PINNULATUM	1
ENSIS DIRECTUS	1
ARCTICA ISLANDICA	1
ECHINARACHNIUS PARMA	2

STATION NUMBER  
 CRUISE SYMAP 036  
 GRAB C1  
 LATITUDE 39591N  
 LONGITUDE 72401W  
 DEPTH METERS 57.2

TEMPERATURE 6.60C  
 SALINITY 33.43ppt  
 DISSOLVED OXYGEN 9.4MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 2.57 82.20 15.23 0.24 0.30 1.94 0.37 1.79

CHLOROPHYLL 9.8PPM COPPER 4.0PPM NICKEL 7.4PPM LEAD 6.0PPM ZINC 22.4PPM

NO. SPECIES 23 NO. INDIVIDUALS 156 DIVERSITY 2.6994 EQUITABILITY 0.8101

SPECIES LISTING

SPECIES LISTING	COUNT
ECHARDZIA SIPUNCULOIDES	1
GLYCERA DIERANCHIATA	1
TARAX ACUTUS	3
SCOLYPLUS ACUTUS	1
NEREIS GRAYI	2
GONIADILLA GRACILLIS	3
ARIGIDIA JEFFREYSII	1
SIPHONANES ECHINUS	4
LEMRINERIS ACUTA	6
LEICCHONE DISPAR	2
AGLADOPHAPS CIRCINATA	3
ELCHONE PUBROCIATA	15
SCALIBREGMA INFLATUM	8
DRILONERIS MAGNA	4
AMPHARETE ARCTICA	7
DIASTYLIS CUACRISPINOSA	1
EUDORELLA EMARGINATA	1
UNCIOLOA IRRCRATA	1
UNCIOLOA INERMIS	20
RYALIS SPERATA	27
APPELISCA MACROCEPHAL	13
SIPHONCECETES SMITHIANUS	2
MARGARITES UMBILICATUS	1
LUNATA HEFCS	1
CERASTODERMA PINNILLATUM	1
ENSIS DIRECTUS	1
ASTERIAS FCRBESII	1
ECHINARACHNIUS PARMA	2
	24

CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17504	26/04/74	037	C1	40052N	72293W	59.0
TEMPERATURE	8.50C	SALINITY	33.40FPT	DISSOLVED OXYGEN	9.4MG/L	
% ORGANICS	% GRAVEL	% SAND	% MUD	MEAN	MEDIAN	SKENNESS
0.0	99.99	0.0	0.43	0.42	0.59	-0.10
						1.00
CHROMIUM	4.0PPM	COPPER	4.0PPM	NICKEL	4.0PPM	LEAD
						6.0PPM
						ZINC
						7.8PPM
NO. SPECIES	31	NO. INDIVIDUALS	167	DIVERSITY	2.7743	EQUITABILITY
						0.8075

SPECIES LISTING	COUNT
SFICPHANES ROMBYX	11
THARYX ACUTIS	24
EUCHONE RUBROCINCTA	3
APPHARETE ARCTICA	5
SCALIBREGMA INFLATUM	14
ACLADPAMUS CIRCINATA	1
CHONE INFUNTLIBULIFORMIS	1
LEUCHONE DISPAR	7
NEREIS GRAYI	1
GONIADFLA GRACILIS	3
LUMBRINERIS ACUTA	9
DILIGNEREIS MAGNA	1
LUMBRINERIS TENLIS	1
EXOgone HERES	3
ARICIDEA JEFFREYSII	3
STHENELEIS LIMICOLA	1
PLYCIRRUS PHOSPHOREUS	2
CAULLERIELLA KILLARIENSIS	2
CPEPUDA	1
CIRCLANA FOLLITA	2
PITLANTHURA TRICARINA	1
BYRILIS SERRATA	1
TRICHOPHGXUS EFISTEMUS	32
UNCIOLA IRRORATA	8
SIPHONCECETES SMITHIANUS	16
ERIGTHONILUS HUNTERI	1
DECAPOD	2
LIVATIA IMMACULATA	1
ARCTICA ISLANDICA	1
LYCNSIA HYALINA	1
ECHINARACHNUS PARVA	1
	10

CRUISE DATE 26/04/75

STATION NUMBER CRUISE SWAMP 039

GRAB 01

LATITUDE 40109N

LONGITUDE 72405W

DEPTH METERS 55.4

TEMPERATURE 8.20C

SALINITY 33.23PPT

DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEMNESS KURTOSIS  
0.04 99.57 C.O 0.43 0.43 0.66 -0.02 0.96

CHLORINE 4.8PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 4.4PPM  
NO. SPECIES 23 NO. INDIVIDUALS 238 DIVERSITY 2.0859 EQUILIBILITY 0.6260

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTHEOPSIS AMERICANUS	6
AMPHARETE ARCTICA	24
PHYLLODONTE MUGGESA	1
SCALIBREGMA INFLATUM	20
SIPHANES ECORPYX	102
DRILONERETS MAGNA	1
STENELAIS LIVICOLA	1
HARMOHCE EXTENSALATA	1
HAPLOSCHLIDIOS FRAGILIS	1
AGLAOPHAKUS CIRCINATA	2
DOTAMILLA NEGLECTA	1
ELCHONE RUBECINCTA	1
MEDIOMASTUS AMBISETA	2
CAPITELLA CAPITATA	1
THARYX ACUTUS	1
CHAETOZONE SETOSA	28
OVENIA FUSIFORMIS	6
PACTODRILLUS SYMBIOTICUS	1
EGOTEA TRILoba	5
PILANTHURA TRICARINA	1
TRICHOPODIXUS EPISTOMUS	1
AMPELISCA MACROCEPHALA	3
GRABLLIS SEPRATA	4
UNCINOLA PARCRATA	3
LEFTOCHETUS PINGUIS	8
MORIDOLUS DEMISELUS	1
ERSIS DIRECTUS	1
UNID BIVALVE #2	1
	1



CRUISE DATE 26/04/75  
 STATION NUMBER CRUISE 035  
 GRAB 01  
 LATITUDE 40144N  
 LONGITUDE 73018W  
 DEPTH METERS 44.4

TEMPERATURE 7.30C SALINITY 33.23PPT DISSOLVED OXYGEN 10.2MG/L

\* CHLOROPHYLL a & GRAVEL % SANC & MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 1.16 95.77 3.06 6.36 0.35 0.60 -0.09 1.09

CHLOROPHYLL b 6.00PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.8PPM

NO. SPECIES 16 NO. INDIVIDUALS 114 DIVERSITY 2.1430 EQUITABILITY 0.7725

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCOCOELE	1
THARYX ACUTUS	7
THARYX ANNULCSLS	3
AGLADHAMUS CIRCINATA	2
GLYCERA DIERANCIATA	2
EUCHONE RUBROCICTA	5
PRIONOSPIG STEENSTRUP I	3
SCALIBREGMA INFLATUM	4
ARIGIDEA JEFFREYSII	1
EXOGONE HERES	1
AMPHARETE ARCTICA	3
SPIOPHANES BOMBYX	12
SCCLODPLCS ARMIGER	12
MACRODLYMENE ZONALLIS	42
PICTORIILUS SYMBIOTICUS	7
UNCICOLA IRACRATA	18
	3
	18
	2

51A

CRUISE DATE STATION NUMBER  
 C7504 26/04/75 040

TEMPERATURE 8.00C SALINITY 33.25PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.16 99.84 0.0 0.44 0.42 0.55 -0.09 0.98

CHROMIUM 4.8PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 4.8PPM

NO. SPECIES 11 NO. INDIVIDUALS 22 DIVERSITY 2.1767 ECUITABILITY 0.9078

- SPECIES LISTING
- AGLAPHAMUS CIRGINATA CCUNT 2
  - TRAVISIA CAENEA 1
  - AMPHARTE ARCTICA 3
  - SCULOPLUS ACUTUS 1
  - LEICOGONE DISPAR 1
  - MACROCLYMENE ZONALIS 3
  - PROTODRILUS SYMBIOTICUS 1
  - UNCIOLA IRGRATA 1
  - RYBLIS SERRATA 6
  - ENSIS DIRECTUS 1
  - ECHINARACHNIDUS PARMA 2

\*\*\*\*\*

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 C7504 26/04/75 040 02 40145N 73155W 38.9

TEMPERATURE 8.00C SALINITY 33.25PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.17 98.51 1.32 0.45 0.44 0.61 -0.13 0.96

CHROMIUM 4.6PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 4.0PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 C7504 26/04/75 040 C2 40145N 73155W 38.9

TEMPERATURE 8.00C SALINITY 33.25PPT DISSOLVED OXYGEN 9.5MG/L

CHROMIUM 4.4PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.4PPM

CRUISE DATE STATION NUMBER  
 07504 26/04/75 040  
 GRAB C4  
 LATITUDE 40145N  
 LONGITUDE 73155W  
 DEPTH METERS 38.9

TEMPERATURE 8.00C SALINITY 33.25PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.04 98.27 1.65 0.42 0.40 0.64 -0.13 1.07

CHROMIUM 4.8PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 6.4PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH METERS  
 07504 26/04/75 040 C5 40145N 73155W 38.9

TEMPERATURE 8.00C SALINITY 33.25PPT DISSOLVED OXYGEN 9.5MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.04 99.19 0.77 0.41 0.40 0.59 -0.09 1.04

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 4.8PPM

CRUISE DATE 26/04/74  
 STATION NUMBER 041  
 CRUISE DATE 26/04/74  
 STATION NUMBER 041  
 GPR# C1  
 LATITUDE 4C245N  
 LONGITUDE 72588W  
 DEPTH METERS 40.7

TEMPERATURE 7.50C SALINITY 33.06PPT DISSOLVED OXYGEN 5.4MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 0.0 99.99 0.0 0.37 0.37 0.52 -0.09 1.02

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 3.8PPM

NO. SPECIES 15 NO. INDIVIDUALS 34 DIVERSITY 2.4987 EQUITABILITY 0.9227

SPECIES LISTING

SPECIES LISTING	COUNT
CAULLERIFELLA KILLARIENSIS	1
THARYX ACUTUS	1
SIPHONANES BOMBYX	7
APPHARETE ACUTICA	2
LMBRINERIS ACUTA	1
LMBRINERIS FRAGILIS	1
ARABELLA TRICELER	1
GLYCERA DIBRANCHIATA	2
MAGFOCLYMENE ZENALIS	2
AGLAOPHAWUS CIRGINATA	2
PECTODRILUS SYMBIOTICUS	3
CIRCLANA PCLITA	3
TRICHOPOHUS EPISTOMUS	1
ACANTHODAUSTORIUS SPINCUSUS	1
ECHINARACHNUS FARPA	4

STATION NUMBER  
 CRUISE 26/C4/75 042  
 GRADE C1  
 LATITUDE 4C203N  
 LONGITUDE 72448W  
 DEPTH METERS 48.0

TEMPERATURE 7.90C SALINITY 33.15PPT DISSOLVED OXYGEN 5.6MG/L

% ORGANICS 7.52 % GRAVEL 90.75 % SAND 1.76 % MUD MEAN C.62 MEDIAN 0.55 SORT 0.55 SKENNESS 1.19 KURTOSIS 1.19

CHEMICALS 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 2.2PPM

NO. SPECIES 21 NO. INDIVIDUALS 1CC DIVERSITY 2.2635 EQUITABILITY 0.7435

SPECIES LISTING	COUNT
AMPHARETE ARCTICA	14
THARYX ACUTUS	24
NEREIS GRAVI	2
ACLAGOPHAYUS CIRGINATA	4
GONIADILLA GRACILIS	8
MAGROCLYMENE ZONALIS	2
LUMBRINERIS ACUTA	12
SYLLIS GRACILIS	1
SCOLOPLOS ACUTUS	1
PECTODRILLUS SYMBIOTICUS	9
CCP EPHEA	1
DETALOSARSIA DECLIVIS	1
LEPTOGNATHA CAECA	1
PTILANTHURA TRICARINA	1
ECOTEA TRILCEA	1
PHOXCEPHALLUS HOLBOLLI	1
UNCIGLA INERMIS	2
UNCIGLA PARCRATA	1
LUNATIA TRISERIATA	1
ECHINAPACHYDUS PARWA	2
THYONE UNISEWITA	1

STATION NUMBER  
 CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH  
 043 C1 4015N 72295W 57.2

CRUISE DATE 26/04/75

TEMPERATURE 8.50C SALINITY 33.35PPT DISSOLVED OXYGEN 9.1MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.27 99.73 0.0 C.43 0.42 0.62 -0.08 1.00

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 2.6PPM

NC. SPECIES 29 NO. INDIVIDUALS 107 DIVERSITY 2.6884 EQUITABILITY 0.7984

SPECIES LISTING

SPECIES LISTING	COUNT
HYDROZOA	1
NEMATODA	1
GONIADA MACULATA	1
STRENELEIS LIMICOLA	1
SCOLOPLOS ARMIGER	1
DRILOMEREIS MAGNA	2
SPIOPHANES BOMBIX	2
EXCCGNE HERES	4
AMPHARETE ARCTICA	7
ARICIDEA JEFFREYSII	1
PHOLDE MINUTA	1
NEREIS GRAYI	1
SCALIBREGMA INFLATUM	23
THARYX ACUTUS	16
CAVILLERIELLA KILLARJENSIS	3
AGLAOPHAPUS CIRCINATA	1
POLYCIERUS SP.	1
PECTODRILIUS SYMBIOTICUS	3
CHIRIDOTEA TUFISI	1
UNCIOLA IRRCRATA	4
UNCIOLA INERMIS	1
FRICHTHONILUS BRASILIENSIS	1
BYBLIS FERRATA	15
LEFTOGNATHA CAECA	1
COLLUS PUBESCENS	1
ENSIS DIRECTUS	1
MCOIOLUS DEMISSUS	1
FCHINAPACHNIUS PARMA	2
THYCNÉ UNISEMITA	1

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 07504 27/04/75 044 C1 4016N 72152W 60.9

TEMPERATURE 7.50C SALINITY 33.25PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.14 99.87 0.0 0.21 0.21 0.60 -0.11 0.94

CHLORUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.6PPM  
 NO. SPECIES 21 NO. INDIVIDUALS 58 DIVERSITY 2.3450 EQUITABILITY 0.7763

SPECIES LISTING

RHYNGCHOCHELA	COUNT
AGLADIPHAMUS CIRCINATA	1
LEICHCONE DISPAR	8
OPHELINA ACUMINATA	1
GLYCERA SP.	1
CAULLERIELLA KILLARIENSIS	1
TRARYX ACUTUS	1
STIOPHANES BCMBYX	6
ARICIDEA JEFFREYSII	10
SCALIBREGMA INFLATUM	1
LUMBRINERIS ACUTA	21
PARANAITIS KCSTERIENSIS	1
LUMBRINERIS TENUIS	1
PECTODRILUS SYMBICTICUS	1
DIASTYLIS SCULPTA	2
CIRCLANA PCLITA	2
UNCITOLA INERMIS	1
BYALIS SERATA	2
UNCITOLA IRRCRATA	26
PHOXOCOPHALUS HOLBOLLI	6
ECHINARACHNIUS PARVA	1
	4

CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
R7506	27/04/75	045	01	40182N	72020W	62.7
TEMPERATURE	7.90C	SALINITY	33.38FPT	DISSOLVED OXYGEN	8.7MG/L	
% ORGANICS	% GRAVEL	% SAND	% MUD	MEAN	MEDIAN	SQRT
0.0	99.99	0.0	0.39	0.38	0.55	SKENNFSS
					-0.01	KURTOSIS
					0.98	
CHLORINE	4.0PPM	COPPER	4.0PPM	NICKEL	4.0PPM	LEAD
						6.0PPM
						ZINC
						2.6PPM
NC. SPECIES	29	NO. INDIVIDUALS	105	DIVERSITY	2.5228	EQUITABILITY
					0.7492	

SPECIES LISTING	COUNT
RHYNCHOCCELA	1
AMPHARETE ARCTICA	1
HARMOTHOE EXTENDUATA	1
NEREIS GRAYI	3
ARIGIDEA JEFFREYSII	2
PHYLLONCE ARENAE	1
ELCHONE RUBRICINCTA	4
GONIADA MACULATA	1
SIPHOPHORES ECMEYX	1
EXOIGONE HERBES	1
SCALIBREGMA INFLATUM	27
CHONE INFUNDIBULIFORMIS	2
LETOCHONE DISPAR	1
PELYGIRRIUS PHOSPHOREUS	1
MAGROCLYMENE ZEMALIS	10
CLIGOCHEAETA	1
CPEPODA	3
PITLANTHURA TRICARINA	1
UNCIOLOA IRRCRATA	1
UNCIOLOA INERMIS	4
BYBLIS SERRATA	1
PHOXOCEPHALUS HCLBOLLI	26
TELLINA AGILIS	3
MARGARITES UMBILICATUS	1
ENSIS DIRECTUS	1
LYNSIA HYALINA	1
ARCTICA ISLANDICA	1
ASTARTE CASTANEA	1
ECHINARACHNIUS PARMA	1



CRUISE DATE STATION NUMBER  
 77504 27/04/75 046

TEMPERATURE 7.00C SALINITY 33.22PPT DISSOLVED OXYGEN 9.0MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SCRT SKEWNESS KURTOSIS  
 0.0 99.99 0.0 0.32 0.32 0.51 -0.02 1.15

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.4PPM  
 NO. SPECIES 36 NO. INDIVIDUALS 434 DIVERSITY 2.5742 EQUILIBILITY 0.7183

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCHOCELA	1
GONIADA MACULATA	2
GONIADILLA GRACILIS	1
NEPES GRAYI	3
HARWOTHOE EXTENSATA	3
CHAETZONE SETOSA	1
THARYX ANNULATUS	1
THARYX ACUTUS	15
CYLLERIELLA KILLARIENSIS	1
PHYLLODOCE ARENAE	3
EUCHONE RUBROCINCTA	21
POTAMILLA NEGLECTA	2
SCALISREGMA INFLATUM	18
SCOLOPUS ARMIGER	1
ARIGIDEA JEFFREYSII	1
EXOGONE HERES	3
MACROGLYKENE ZONALIS	66
AGLAOPHAPS CIRGINATA	3
AMPHARETE ARCTICA	64
ORIGONEREIS MAGNA	2
SPIOPHANES BOMBYX	45
PETODRILUS SYMBIOTICUS	1
DIASYLLIS SCULPTA	1
DIASYLLIS GUADRISPINOSA	1
PILANTHURA TRICARINA	2
DUROCEPHALUS HOLBOLLI	1
TRICHOPEXUS EPISTOMUS	1
BYLLIS SEPRATA	2
JUNCOLA INERMIS	81
JUNCOLA IRRCRATA	30
CYLOCARDIA BCFRALLIS	29
GREENELLA GLANDULA	2
ENSIS DIRECTUS	1
LYNSIA HYALINA	3
ASTARTE CASTANEA	7
CERASTODERMA PINNULATUM	1
	5

CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
D7504	27/04/79	047	01	40257N	72203W	55.4
TEMPERATURE	7.90C	SALINITY	32.26PPT	DISSOLVED OXYGEN	10.1MG/L	
% ORGANICS	% GRAVEL	% SAND	% MUD	MEAN	MEDIAN	SORT
	0.0	99.59	C.0	C.35	0.34	0.45
						-0.10
						1.04
CHLORINE	4.0PPM	COPPER	4.0PPM	NICKEL	4.0PPM	LEAD
						6.0PPM
						ZINC
						9.4PPM
NO. SPECIES	22	NO. INDIVIDUALS	399	DIVERSITY	1.8140	EQUITABILITY
						0.5865

SPECIES LISTING	COUNT
HAPLOSCYLICUS ROBLUSTUS	3
AGLAPHAMUS CIRGINATA	3
ELCHONE RUBRICINCTA	6
HARMOTHOE EXTENUATA	1
MEDIOMASTUS AMBISETA	1
ARICIDEA MASSI	1
MACROCLYMENE ZONALLIS	13
NEREIS GRAYI	1
THARYX ANNULOSUS	1
THARYX ACUTUS	60
STIGPHANES EDEBYX	125
SCALIBREGMA INFLATUM	43
AMPHARETE ARCTICA	120
POLYCIRRUS PHICSPHREUS	1
GLYCERA DIBRANCHIATA	1
PECTODRILUS SYMBIOTICUS	11
DIASTYLIS SCULPTA	1
DIASTYLIS GUACRISPINOUSA	1
ERICTHENILUS HLANTERI	1
MELITA DENTATA	1
UNCICLA INERMIS	3
PHORONIS ARCHITECTA	1

STATION NUMBER  
 CRUISE SYMAP  
 GRAB C1  
 LATITUDE 40247N  
 LONGITUDE 72343W  
 DEPTH METERS 48.0

COLLECTOR DATE  
 07504 26/04/75

TEMPERATURE 7.30C  
 SALINITY 33.16PPT

DISSOLVED OXYGEN 9.6MG/L

% GRAVEL 0.05  
 % SAND 99.94  
 % MUD 0.0  
 MEAN 0.45  
 MEDIAN 0.45  
 SORT 0.61  
 SKEWNESS -0.03  
 KURTOSIS 0.93

CHROMIUM 4.0PPM  
 COPPER 4.0PPM  
 NICKEL 4.0PPM  
 LEAD 6.0PPM  
 ZINC 9.0PPM  
 NO. SPECIES 20  
 NO. INDIVIDUALS 102  
 DIVERSITY 1.9621  
 EQUITABILITY 0.6550

SPECIES LISTING

SCALIBREGMA INFLATUM	3
ARICIDEA JEFFREYSII	2
THARYX ACUTUS	1
CAULLERIELLA KILLARIENSIS	1
ELCHONE RUBRICINCTA	3
AMPHARETE ARCTICA	5
LUPRINERIS FRAGILIS	54
MACROCYLWENE ZONALIS	1
GLYCERA DIFRANCHIATA	8
AGLAOPHAMUS CIRCINATA	1
SPIOPHANES BOMBIX	2
SCOLOPLECS ACUTUS	3
PROTODRILUS SYMBICTICUS	1
UNCIGLA IRREGRATA	5
UNCIGLA INERMIS	5
PSEUDUNCIGLA ORLIQUUA	2
PHOXOCEPHALUS FOLBOLLI	2
AMPELISCA MACRICEPHALA	1
ENSIS DIRECTUS	1
ARCTICA ISLANDICA	1

CRUISE D7504 DATE 26/04/75  
 STATICA NUMBER 049  
 SYMAP C1  
 GRAB C1  
 LATITUDE 40298N  
 LONGITUDE 72485W  
 DEPTH METERS 37.1

TEMPERATURE 7.20C SALINITY 32.95PPT DISSOLVED OXYGEN 9.4MG/L

% ORGANICS 0.12  
 % GRAVEL 95.87  
 % SAND C.0  
 % MUD C.44  
 MEAN SORT 0.64  
 MEDIAN SORT 0.44  
 SKEWNESS -0.03  
 KURTOSIS 0.93

CHROMIUM 4.6PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.6PPM

NO. SPECIES 25 NO. INDIVIDUALS 193 DIVERSITY 1.8352 EQUITABILITY 0.5702

SPECIES LISTING	COUNT
PHASCOLIGN STRCWB1	1
SFIDPHANES BOMBYX	109
PHYLLODOCE ARENAE	1
ARICIDEA JEFFREYSII	5
AGLACPHAMUS CIRCINATA	7
AMPHARETE ARCTICA	23
PRINDOSPID STEENSTRUP1	7
LMBRINERIS TENUS	1
LEICCHONE DISPAR	1
GLYCERA DIERANCHIATA	1
HARMOIHOE EXTENSALATA	1
MACROCLYMEKE ZONALIS	2
CLYMENELLA TCRQUATA	3
THARYX ANNULOSUS	2
EUDGRELLOPSIS DEFORMIS	2
DIASYLLIS SCULPTA	1
CIRROLANA POLITA	1
CCRPHIUM CRASSICORNE	5
PSEUDOHALSTRELLIS CARCLINIENTENSIS	9
AMPELLISCA MACROCEPHALA	3
APPPELLISCA VADCRUM	2
TRICHOPOHOXUS EPISTOMLUS	1
UNCITOLA INERMIS	2
ARCTICA ISLANDICA	1
ECHINARACHNIUS PARMA	2

CRUISE DATE 27/04/75  
 STATION NUMBER SYMAP GRAB LATITUDE LONGITUDE DEPTH METERS  
 050 C1 4C340N 72381W 40.7

TEMPERATURE 7.00C SALINITY 32.80PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SKEWNESS KURTOSIS  
 0.09 99.91 0.0 0.48 0.48 0.52 -0.03 1.00  
 CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 6.8PPM  
 NO. INDIVIDUALS 73 DIVERSITY 2.2157 EQUITABILITY 0.7820

SPECIES LISTING

- AMPHARETE FRCTICA 4
- SCOLOPLOS ARMIGER 2
- AGLAOPHAKUS CIRCINATA 1
- SCALIBREGMA INFLATUM 3
- SPIDOPHAKES BOMBAYX 29
- MACROCLYMENE ZCNALIS 4
- CAULLERIELLA KILLARIENSIS 1
- AFICIDEA JEFFREYSII 2
- LEFTGNATHA CAECA 1
- TRICHOPOHUS EPISTOMUS 5
- PSEUDONCIGLA CRILIGUUA 1
- ACANTHOMALUSTORIUS SPINICUS 5
- PROTHAUSTORIUS WIGLEYI 7
- UNCIGLA INEFMIS 1
- COROPHIUM CRASSICORNE 4
- TILLINA AGILIS 1
- ECHINARACHNIDS FARMA 2

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CRUISE DATE 27/04/75  
 STATION NUMBER SYMAP GRAB LATITUDE LONGITUDE DEPTH METERS  
 050 C2 4C340N 72381W 40.7

TEMPERATURE 7.00C SALINITY 32.80PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SKEWNESS KURTOSIS  
 0.29 99.54 1.22 0.52 0.51 0.59 -0.06 1.01  
 CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.9PPM  
 \*\*\*\*\*

CRUISE DATE 27/04/75  
 STATION NUMBER SYMAP GRAB LATITUDE LONGITUDE DEPTH METERS  
 050 C3 4C340N 72381W 40.7

TEMPERATURE 7.00C SALINITY 32.80PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SKEWNESS KURTOSIS  
 0.26 97.80 2.15 0.47 0.47 0.56 -0.06 1.03  
 CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.8PPM

CRUISE DATE STATION NUMBER GRAB LATITUDE LENGTH DEPTH  
 C7504 27/06/75 050 C4 40340N 72381W 40.7

TEMPERATURE 7.00C SALINITY 32.80PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.29 99.20 0.52 0.45 0.44 0.58 -0.09 1.01

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 9.0PPM

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CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 C7504 27/06/75 050 C5 40340N 72381W 40.7

TEMPERATURE 7.00C SALINITY 32.80PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.58 95.17 4.25 0.48 0.47 0.71 -0.05 1.19

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 8.2PPM

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 D7504 27/04/75 051 SYMAP 01 40352N 72250W 44.4  
 METERS

TEMPERATURE 7.00C SALINITY 32.43PPT DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUC MEAN MEDIAN SORT SKENNESS KURTOSIS  
 0.14 95.82 0.0 0.4C 0.4C 0.53 -0.08 0.98

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 1.4PPM  
 ND. SPECIES 16 ND. INDIVIDUALS 128 DIVERSITY 1.2824 EQUITABILITY 0.4625

SPECIES LISTING

AGLADOPHAMUS CTROCIANATA	COUNT
SIPHOPHANES BCPPEYX	8
SCOLOPLOS ARMIGER	52
LEIDOCIONE DISPAR	3
MACROCLYMENE ZCANALIS	2
ORGINIA SWANI	6
AMPHARETE ARCTICA	2
CYREPODA	1
CIRROLANA PGLITA	1
PRITODHAUSTGRIUS MIGLEYI	1
TRICHOPTICXUS EPISITCMUS	1
UNCIDLA INERMIS	1
UNCICLA IRECRATA	1
BYLLIS SERRATA	2
ARCTICA ISLANDICA	2
ECHINARACHNIUS FARMA	1
	3

CRUISE DATE STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 DTSC4 27/04/79 052 SYMAP 01 40365N 72129W 49.9

TEMPERATURE 7.90C SALINITY 33.10PPT DISSOLVED OXYGEN 9.0MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEMNESS KURTOSIS  
 0.0 99.99 0.0 0.23 0.23 0.54 -0.07 1.05

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.2PPM

NO. SPECIES 20 NO. INDIVIDUALS 163 DIVERSITY 1.8087 EQUITABILITY 0.6038

SPECIES LISTING

CER IANTHOPUS AMERICANUS	1
PHASCOLICA STRUMI	73
SPIDRANES BOMBYX	40
AMPARETE ARCTICA	3
SCALIBREGMA INFLATUM	4
AGLADHAMUS CIRCINATA	4
MACROCLYMENE ZENALIS	15
LEIOCHONE DISPAR	1
NINOE NIGRIPES	1
CWENIA FUSIFORMIS	1
PROTODRILUS SYMBIOTICUS	1
AMPELISCA AGASSIZI	3
AMPELISCA VERRILLI	7
BYLLIS SERRATA	2
UNCIOLEA IRREGRATA	1
COROPHIUM CRASSICORNE	4
EUDCRELLIPSIS DEFORMIS	4
PITLANTHURA TRIGARINA	1
ARCTICA ISLANDICA	1
ECHINABACHNIDUS PARMA	1
	2



CRUISE 07504 DATE 27/04/75 STATION NUMBER 053  
 CRUISE SWAMP GRAB C1 LATITUDE 40330N LONGITUDE 71555W DEPTH METERS 62.7

TEMPERATURE 7.50C SALINITY 33.15ppt DISSOLVED OXYGEN 9.4MG/L

% ORGANICS 4.2% % GRAVEL 95.71 % SAND 0.0 % MUD 0.54 % MEAN 0.53 % MEDIAN 0.82 % SORT 0.82 % SKEWNESS -0.14 % KURTOSIS 1.11

CHLOROPHYLLUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 3.4PPM  
 NO. SPECIES 38 NC. INDIVIDUALS 351 DIVERSITY 2.7668 EQUITABILITY 0.7606

SPECIES LISTING

SPECIES LISTING	COUNT
EDWARDSIA SIPUNCULOIDES	2
PASCOLLON STROMBI	6
APHARETE ARCTICA	9
SPIOPHANES BOMBIX	89
POLYDORA SOCIALIS	1
GONIADA MACULATA	1
ORIGONSPID STEENSTRUP I	1
EXOGONE HERES	37
PARAPICNOSYLLIS LONGICIRATA	3
MACROCLYMENE ZONALLIS	52
NEREIS GRAYI	6
NEREIS PELAGICA	1
LUMBRINERIS TENUIS	17
AGLAPHAMUS CIRRIATA	2
SCALIBREGMA INFLATUM	15
GONIADELLA GRACILIS	4
AFICIDEA JEFFREYSII	5
ELCHONE RUBROCINCTA	10
THARYX ACUTUS	34
CYVENECLA TORQUATA	1
PERUSA AFFINIS	1
HARMOGHE EXTENUATA	1
POLYDORA LIGNI	1
POLYCIRRUS PHOSPHOREUS	1
PECTODRILUS SYMBIOTICUS	2
CYPRIPEDA	1
EUCORELLA EMARGINATA	8
DIASYLLIS SCULPTA	3
PILANTHURA TRICARINA	7
BYBLIS SERRATA	36
AMPELISCA AGASSIZI	5
UNCIDOLA TRORATA	6
HARFINIA PRCPINQUA	2
UNCIDOLA INERMIS	11
ENSIS DIRECTUS	3
ASTARTE UNICATA	2
CYLOCARDIA BCREALIS	4
PERILPMA FRAGILIS	1

STATION NUMBER  
 CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH  
 054 C1 40393N 71450W 62.7

CRUISE DATE  
 07504 27/04/75

TEMPERATURE 7.10C SALINITY 33.06PPT DISSOLVED OXYGEN 9.6MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SQRT SKEWNESS KURTOSIS  
 21.6% 78.31 0.0 0.59 0.84 1.30 -0.27 1.07

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.4PPM

NO. SPECIES 18 NO. INDIVIDUALS 143 DIVERSITY 2.1162 EQUITABILITY 0.7321

SPECIES LISTING

ACLOPHAMUS CIRGINATA	2
GCNIADELLA GRACILIS	2
EUCHONE RUBROINCTA	2
APPHARETE FRCTICA	44
SCALIBREGMA INFLATUM	1
EXOGONE PEBES	1
DRILCNEREIS MAGNA	2
LUMRINERIS ACUTA	8
MACROCLYMENE ZCNALLIS	2
SPIOPHANES BCMBYX	35
THARYX ACUTUS	17
PCTODRIIUS SYMBIOTICUS	2
UNCIOIA INERMIS	11
HYRLIS SERRATA	4
CIRCLANA PCLITA	4
CCP EPODA	1
CERASTODERMA PINNULATUM	4
ECHINARACHNIUS FARMA	1

COUNT

65

CRUISE DATE STATION NUMBER  
 71504 27/04/75 055

TEMPERATURE 7.80C SALINITY 33.15PPT GRAB CI LATITUDE 40408N LONGITUDE 71576W DEPTH METERS 51.7

\* PERCENTS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEMNESS KURTOSIS  
 0.0 97.77 2.23 0.46 0.46 C.72 0.04 0.92

CHEMISTRY 4.8PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 10.4PPM  
 NO. SPECIES 24 NO. INDIVIDUALS 308 DIVERSITY 2.3694 EQUITABILITY 0.7456

SPECIES LISTING

SPECIES LISTING	CCOUNT
EMARDOSTA SIPUNCULOIDES	5
PHASCOCLESCOMA SP.	1
MACROCLYMENE ZONALLIS	61
NEREIS GRAYI	3
PLECTODRILLILEA BIARTICULATA	3
THARYX ACUTUS	3
AGLLOPHAMUS CIRGINATA	4
LUMBRINERIS TENUIS	24
LUMBRINERIS FRAGILIS	1
ARTICIDA JEFFREYSII	11
GLYCERA CAPITATA	1
AMPHARETE ARCTICA	5
EMOGONE HERBES	65
SCALIBREGMA INFLATUM	6
SCALIADELLA GRACILIS	10
DRILONEREIS MAGNA	1
PLECTODRILLUS SYMBIOTICUS	9
PILANTHURA TRICARINA	7
DIXOCOPHALUS HOLBULLI	1
UNCIOLA INEFENS	35
UNCIOLA IRORATA	48
EUCRELLA EMARGINATA	2
DIASYLIS CUACRISPINCISA	1
ASTERIAS TANNERI	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRPR	LATITUDE	LONGITUDE	DEPTH METERS
7504	27/04/75	056			C1	40462N	72125W	42.6
TEMPERATURE	7.00C	SALINITY	32.76PPT			DISSOLVED OXYGEN	9.1MG/L	
% ORGANICS	% GRAVEL	% SAND	% MUD	MEAN	MEDIAN	SCPT	SKENNESS	KURTOSIS
	10.50	89.51	0.0	C.74	0.77	1.01	-0.03	1.00
CHROMIUM	4.0PPM	COPPER	4.0PPM	NICKEL	4.0PPM	LEAD	6.0PPM	ZINC
4.0PPM								4.0PPM
NO. SPECIES	27	NO. INDIVIDUALS	717	DIVERSITY	1.4709	EQUITABILITY	0.4463	
SPECIES LISTING								
								COUNT
								3
								1
								1
								3
								1
								1
								1
								1
								2
								2
								8
								450
								84
								1
								1
								3
								6
								6
								27
								24
								3
								8
								68
								2
								1
								1
								6

CRUISE #	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
C7574	27/04/75	057			C1	40507N	72005W	40.7
TEMPERATURE	6.90C	SALINITY	32.65FFT	DISSOLVED OXYGEN	9.4MG/L			
% ORGANICS	% GRAVEL	% SAND	% MUD	MEAN	MEDIAN	SORT	SKEWNESS	KURTOSIS
1.72	82.38	16.42	0.17	0.16	1.88	0.07	1.46	
CHLOROPHYLL	10.0PPM	COPPER	10.0PPM	NICKEL	10.0PPM	LEAD	15.0PPM	ZINC
								19.5PPM
NO. SPECIES	32	NO. INDIVIDUALS	579	DIVERSITY	1.7725	EQUITABILITY	0.5114	
SPECIES LISTING								
								COUNT
								3
								1
								9
								1
								5
								3
								1
								4
								2
								1
								1
								14
								3
								2
								8
								287
								30
								2
								13
								3
								8
								2
								3
								1
								6
								1
								146
								8
								1
								1
								8
								1
								1
								8

CRUISE DATE STATION NUMBER GRADE LATITUDE LONGITUDE DEPTH  
 57504 27/04/75 058 C1 40483N 71500W 42.6

TEMPERATURE 7.00C SALINITY 33.96PPT DISSOLVED OXYGEN 9.2MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SKEWNESS KURTOSIS  
 5.00 79.44 14.55 0.23 0.15 2.11 -0.05 1.86

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.2PPM LEAD 6.0PPM ZINC 13.4PPM

NO. SPECIES 27 NO. INDIVIDUALS 381 DIVERSITY 2.4475 EQUITABILITY 0.7426

SPECIES LISTING	COUNT
NEMATODA	3
RHYNCHOCCELA	1
SPIROBIS BOREALIS	1
CYLLERITELLA KILLARJENSIS	10
NEREIS GRAYI	1
SICPHANES BOMBAYX	1
DIVENIA FLUSIFRONS	1
EXOONE HERES	25
PARAPINCAYLLIS LONGICIRATA	9
PROTONOVILLEA RIARTICULATA	2
SPEAERCSYLLIS ERINACEUS	2
SYLLIS CORNUTA	1
ACLAOPHAMUS CIRGINATA	1
MFCROGLYME ZENALIS	29
GONIADILLA GRACILIS	23
ANPLARETE ARCTICA	50
THARYX ANNULCUSUS	1
THARYX ACUTIS	1
ARICIDEA JEFFREYSII	61
LIMRINERIS ACUTA	10
OLIGOCHEETA	37
FICTODRITUS SYMBIOTICUS	4
CITROLANA POLITA	81
UNCIOLA INERMIS	4
UNCIOLA IMPRATA	3
PHOXOCSPALLUS HOLBOLLI	6
ECHINARACHNUS PARMA	3
	1

CRUISE DATE 27/04/75  
 STATION NUMBER 059  
 CRUISE SWAMP  
 GRAB C1  
 LATITUDE 40492N  
 LONGITUDE 71424W  
 DEPTH METERS 60.9

TEMPERATURE 7.10C  
 SALINITY 33.12FFT  
 DISSOLVED OXYGEN 9.3MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEWNESS KURTOSIS  
 0.0 99.11 1.90 0.26 0.27 0.51 0.10 1.09

CHLOROPHYTUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 7.4PPM

NO. SPECIES 37 NO. INDIVIDUALS 272 DIVERSITY 2.4583 EQUITABILITY 0.6808

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTHEOPSIS AMERICANUS	3
NEMATODA	2
RHYNCHOCELA	2
NINDE NIGRIFES	4
DRILONEREIS LONGA	3
TEREBELLIDAE	3
SCOLEPLOS ACUTUS	1
THARYX ACUTUS	11
HARTMANTIA MCCREI	2
POLDIE MINUTA	3
CHONE INFUNDIBULIFORMIS	3
GONIADILLA GRACILIS	8
AMPARETE ARCTICA	2
NEPHTYS INCISA	7
SCALIBREGMA INFLATUM	1
SIPHONANES ECMBYX	7
SIPHRONOPSIS SCLYTATA	61
EUDRELLA EMARGINATA	3
PITLANTHURA TRICARINA	3
UNCIOLOA IRRCRATA	1
PROTIS Sp.	1
LEPTOCHEIRUS PINGUIS	1
AMPELISCA AGASSIZI	5
AMPELISCA MACROCEPHALA	19
PHOXCEPHALUS HELICLI	1
FRICHTHONIUS HUNTERI	3
CRENELLA GLANCUA	1
LYNSIA HYALINA	3
NUCUA DELPHINODONTA	1
CERASTODERA PINNULATUM	1
YOLCIDA LIMATULA	1
PERILOMA FRAGILIS	3
THRACIA CONRADI	16
ASTARTE UNDATA	16
ASTARTE SUBEQUILATERA	1
THYONE Sp.	1
PHORONIS ARCHITECTA	1

CRUISE DATE 27/04/79  
 STATION NUMBER GRAB LATITUDE LONGITUDE DEPTH  
 17504 27/04/79 06C C1 46°27'N 71°45'W 46.2 METERS

TEMPERATURE 7.0°C SALINITY 33.00PPT DISSOLVED OXYGEN 10.0MG/L

% ORGANICS % GRAVEL % SAND % MUD MEAN MEDIAN SORT SKEMNESS KURTOSIS  
 3.3 92.46 7.55 0.20 0.15 0.53 0.27 1.58

CHROMIUM 4.0PPM COPPER 4.0PPM NICKEL 4.0PPM LEAD 6.0PPM ZINC 5.8PPM

NO. SPECIES 44 NO. INDIVIDUALS 531 DIVERSITY 1.3744 EQUITABILITY 0.3632

SPECIES LISTING	COUNT
EWARDOZIA SIPUNCULOIDES	1
RHYNCOCYCLA	2
PHASCOLION STROMBI	3
CLYMENELLA TERCUATA	4
LUMBRINERIS TENUIS	2
APPHARETE ARCTICA	17
HARMOIHE EXTENSATA	1
CHONE INFUNDIBULIFORMIS	2
THARYX ANNULOSUS	1
MEDIOMASTUS AMBISETA	18
NOTOMASTUS LATERIGEUS	3
EUCHONE RUPESCINCTA	2
NINDE NIGRIFES	1
SPIOPHANES BOMBYX	21
DEILONERETS LONGA	3
EXOGONE HERES	15
PRAXILLURA CRATA	8
LACNICE CIRATA	1
SCOLOPLOS ACUTUS	11
SCALIBREGMA INFLATUM	6
PARANIS GRACILIS	1
PRICNOSPIC STEENSTRUPI	1
NYENIA FUSIFORMIS	30
FUDRELLA EMARGINATA	11
CIASYLLIS CUADRISPINOSA	9
PILANTHURA TRICARINA	5
PHYCOPHALUS HOLBOLLI	3
DIASYLLIS SCULPTA	2
UNCITOLA TRORATA	20
HARPINIA PRCPINGUA	2
APBELISCA AGASSIZI	659
LEPTOCHETRUS PINGUIS	3
AMPHISCIA MACROCEPHALA	1
AEGINIA LONGICRANIS	1
CRANGON SEPTEMSPINOSA	1
CALICARIS SF.	1
MITRELLA DISTITILLUS	4
CELLS PUBESCENS	1
PANDORA GULDIANA	1
ASTARTE SUBEQUILATERA	1
ASTARTE UNGATA	1
LYONSIA HYALINA	3
NUCULA PRAXIMA	12
ASTIPIDAS FRRESII	1

24



CRUISE	DATE	STATION	NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH
7504	27/06/75	060	SYMAP	C2	40587N	71450W	METERS
TEMPERATURE	7.00C	SALINITY	33.00P1				46.2
CHEMISTRY	4.0PPM	COPPER	4.0PPM	NICKEL	4.0PPM	LEAD	6.0PPM
						ZINC	13.8PPM
						DISSOLVED OXYGEN	10.0MG/L