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NOAA Data Report ERL MESA-36



DISTRIBUTION AND ABUNDANCE OF BENTHIC MACROFAUNA IN THE SEWAGE
SLUDGE DISPOSAL AREA, NEW YORK BIGHT APEX, FEBRUARY 1975

John Pearce
Janice Caracciolo
Martha Halsey
Leslie Rogers

Marine Ecosystems Analysis Program
Boulder, Colorado
November 1977

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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

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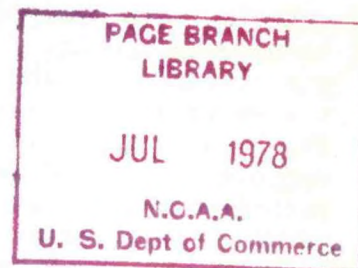
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Division of Environmental Assessment
National Marine Fisheries Service
Northeast Fisheries Center
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NATIONAL OCEANIC AND
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Distribution and Abundance of Benthic Macrofauna in the
Sewage Sludge Disposal Area, New York Bight Apex,
February 1975*

John Pearce, Janice Caracciolo,
Martha Halsey and Leslie Rogers

Division of Environmental Assessment
National Marine Fisheries Service
Northeast Fisheries Center
Sandy Hook Laboratory
Highlands, New Jersey 07732

November 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 has been examining the impact of ocean waste disposal on the ecosystem of the New York Bight apex since 1968 (Pearce et al., 1976a). The benthic community in the apex has been used to indicate impacts because certain bottom-dwelling organisms are often the first to be demonstrably affected by pollutants. The study has had three phases: 1) reconnaissance, 2) seasonal quarterly sampling: five cruises, August 1973 through September 1974 (Pearce et al., 1976b, 1976c, 1977), and 3) intensive grid sampling in areas shown to be affected by sewage sludge and dredging spoils disposal (dredging spoils grid samples are still being analyzed at Sandy Hook Laboratory).

The present data report was prepared in order to provide machine listed data and certain statistical calculations, diversity and equitability (Shannon and Weaver, 1963; Pielou, 1969), concerned with the distribution and abundance of benthic organisms found at 24 stations "nested" within the sewage sludge disposal area of the standard N. Y. Bight, MESA sampling grid (Figs. 1, 2).

These "nested" samples will yield additional information on the impact of dumping in the New York Bight by providing a better distributional statistical base and will be used in comparisons with earlier data collected from the same area.

Materials and Methods

The "nested" benthic sampling area consists of 25 stations (901 through 925) located within the sewage sludge disposal area of the standard MESA, N. Y. Bight sampling grid (Figs. 1, 2). The site is bounded by latitudes $40^{\circ}23'$ and $40^{\circ}27'$ and longitudes $73^{\circ}46'$ and $73^{\circ}50'$.

In February 1975, two 0.1 m^2 Smith-McIntyre benthic grab samples were taken at each of 24 sampling sites from the NOAA ship Delaware II (no grab samples were obtained at station 902). These stations (Fig. 2) were located by Raydist¹ precision navigation. At each station, two sediment cores (3.4 cm inside diameter) were removed from each grab sample, one for standard geological analyses and the other for heavy metals analyses. These cores were frozen for future analyses. The remainder of each grab sample was washed through a standard geological sieve with a 1.00 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.

In the laboratory, dissecting microscopes were used as an aid in sorting out organisms from preserved macrofauna samples. All organisms were identified to the species level, whenever possible, using standard keys and descriptions and consultations with recognized taxonomists.

¹ Use of trade name does not imply endorsement by NOAA.

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 ($H' \cong -\sum \frac{n_i}{N} \ln \frac{n_i}{N}$, where n_i = number in the i^{th} species).

Results

Machine listed species lists and counts, with diversity and equitability calculations for each of 24 stations, are presented as Table 1.

No detailed interpretations of these data are made at this time, but these data, with numerous other data sets, are being analyzed to yield information on the impacts of ocean dumping, riverine runoff, low dissolved oxygen and other man-induced and natural factors on marine bottom-dwelling populations and community structure.

Literature Cited

- 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-National Marine Fisheries Service. NOAA DR ERL MESA - 7. 114 p.
- Pearce, J., J. Thomas, J. Caracciolo, M. Halsey, and L. Rogers. 1976b. Distribution and abundance of benthic organisms in the New York Bight apex, 2-6 August, 1973. NOAA-National Marine Fisheries Service. NOAA DR ERL MESA - 8. 131 p.
- Pearce, J., J. Thomas, J. Caracciolo, M. Halsey, and L. Rogers. 1976c. Distribution and abundance of benthic organisms in the New York Bight apex, 26 August - 6 September 1974. NOAA-National Marine Fisheries Service. NOAA DR ERL MESA - 3 88 p.
- 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, N. Y. 286 p.
- Shannon, C. and W. Weaver. 1963. The mathematical theory of communication. Univ. of Ill. Press, Urbana. 117 p.

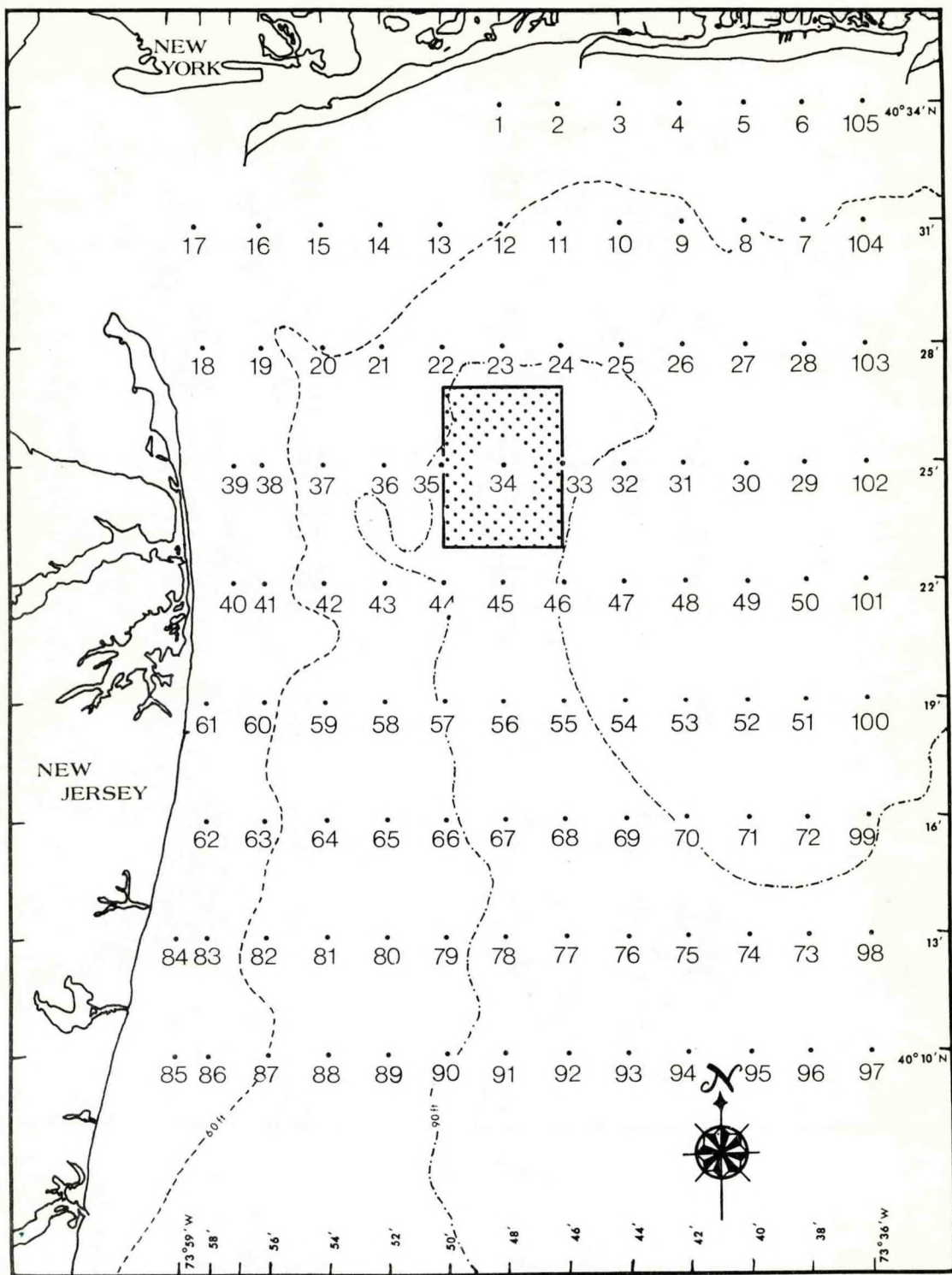


Figure 1. Shaded area shows location of nested stations in the sewage sludge disposal area of the standard N. Y. Bight sampling grid.

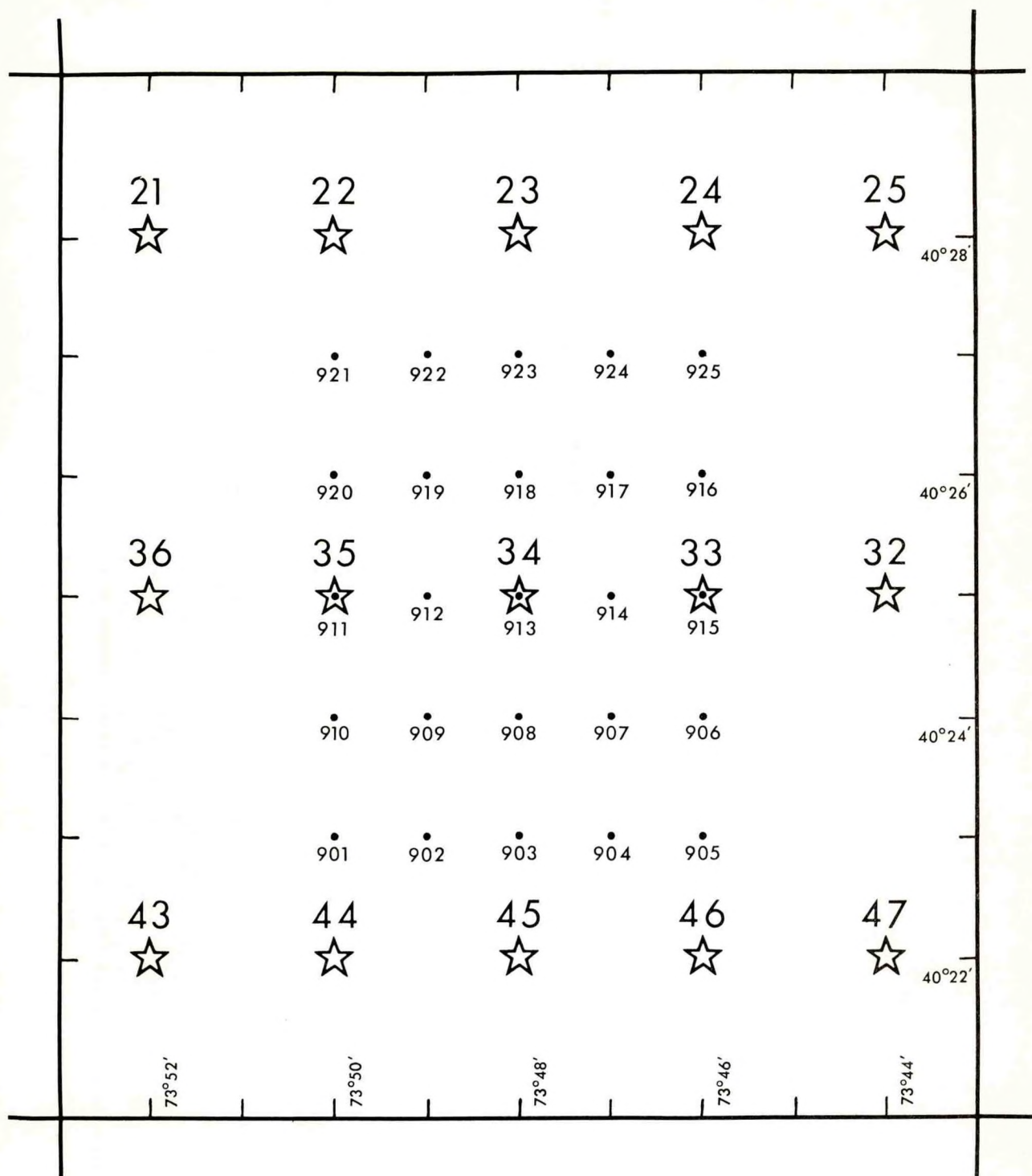


Figure 2. Closeup of locations of 25 nested stations in relation to surrounding standard MESA stations. Stations referred to in Table 1 can be located on this figure

Table 1. Machine listing of benthic data collected at nested stations in the sewage sludge disposal area, N. Y. Bight, February 1975.

CRUISE 07502 DATE 14/02/75 STATION CRUISE 901 NUMBER SYMAP 901 GRAB 01 LATITUDE 40230N LONGITUDE 73500W DEPTH METERS 31.0

NO. SPECIES 5 NO. INDIVIDUALS 12 DIVERSITY 1.3522 EQUITABILITY 0.8402

SPECIES LISTING

MEDIOMASTUS AMRISETAE	COUNT
LUMBRINERIS TENUIS	4
NINOE NIGRIPES	1
DRILONERIS LONGA	1
THARYX ACUTUS	1
	5

CRUISE 07502 DATE 14/02/75 STATION CRUISE 901 NUMBER SYMAP 901 GRAB 02 LATITUDE 40230N LONGITUDE 73500W DEPTH METERS 31.0

NO. SPECIES 7 NO. INDIVIDUALS 263 DIVERSITY 0.4919 EQUITABILITY 0.2528

SPECIES LISTING

CERIANTHUS AMERICANUS	COUNT
MUCULA PROXIMA	9
BALANUS CRENATUS	236
NEPHYS INCISA	8
ASAPHELLIDES OCULATA	3
THARYX ACUTUS	1
THARYX ANNULOSUS	2
	4

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH
D7502	15/02/75	CRUISE	SYMAP	01	40230N	73490W	METERS
		902	902				32.5

NO ANALYZED DATA

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH
D7502	15/02/75	CRUISE	SYMAP	02	40230N	73490W	METERS
		902	902				32.5

NO ANALYZED DATA

CRUISE 07502 DATE 15/02/75 STATION NUMBER 903 CRUISE 903 SYMAP 903 GRAB 01 LATITUDE 4 1230N LONGITUDE 73480W DEPTH METERS 39.2

NO. SPECIES 14 NO. INDIVIDUALS 336 DIVERSITY 1.6347 EQUITABILITY 0.6194

SPECIES LISTING

SPECIES LISTING	COUNT
FORAPUSIA SIPUNCULOIDES	1
CERIANTHUS AMERICANUS	40
NUCULA PROXIMA	171
TELLINA AGILIS	1
YOLGIA MYALIS	2
NEPHTYS INCISA	26
ETEONE LONGA	1
DRILONERFIS LONGA	2
ASABELLIPES OCULATA	1
GONIADA MACULATA	1
LUMBRINERIS TENUIS	37
THARYX ACUTUS	28
NINOE NIGRIPES	16
PHERUSA AFFINIS	9

CRUISE 07502 DATE 15/02/75 STATION NUMBER 903 CRUISE 903 SYMAP 903 GRAB 02 LATITUDE 4 0230N LONGITUDE 73480W DEPTH METERS 39.2

NO. SPECIES 15 NO. INDIVIDUALS 77 DIVERSITY 2.0992 EQUITABILITY 0.7752

SPECIES LISTING

SPECIES LISTING	COUNT
THARYX ANNULOSUS	1
THARYX ACUTUS	8
OLIGOCHAETA	1
CERIANTHUS AMERICANUS	14
PHORONIS ARCHITECTA	2
NUCULA PROXIMA	16
NEPHTYS INCISA	5
PARAONIS GRACILIS	23
DRILONERFIS LONGA	1
STAURONERFIS CAECUS	1
PRIONOSPION STEENSTRUPII	1
PHERUSA AFFINIS	1
LUMBRINERIS TENUIS	1
NINOE NIGRIPES	4
COSSURA LONGOCIPPATA	1

CRUISE 07502 DATE 15/02/75 STATION CRUISE 904 SYMAP 904 GRAB 01 LATITUDE 40230N LONGITUDE 73470W DEPTH METERS 37.1

NO. SPECIES 14 NO. INDIVIDUALS 51 DIVERSITY 2.1363 EQUITABILITY 0.8095

SPECIES LISTING

SPECIES LISTING	COUNT
CERTANTHUS AMERICANUS	5
PERUSA AFFINIS	3
LAONICE CIRRATA	1
PHOLOE MINUTA	1
RHYNCHOCELA	1
PHORONIS ARCHITECTA	1
NUCULA PROXIMA	5
UNIO BIVALVE #2	1
PITAR MORRHUANA	1
EDDIEA TRILOBIA	1
THARYX ACUTUS	1
NEPHTYS INCISA	9
NINOE NIGRIPES	5
ASABELLIDES OCULATA	16

CRUISE 07502 DATE 15/02/75 STATION CRUISE 904 SYMAP 904 GRAB 02 LATITUDE 40230N LONGITUDE 73470W DEPTH METERS 37.1

NO. SPECIES 5 NO. INDIVIDUALS 17 DIVERSITY 1.5295 EQUITABILITY 0.9503

SPECIES LISTING

SPECIES LISTING	COUNT
RHYNCHOCELA	5
EDWARDSIA SEPUNCULOIDES	5
CERTANTHUS AMERICANUS	2
UNIO BIVALVE #2	2
NINOE NIGRIPES	3

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 905 SYMAP 905 GRAB 01 LATITUDE 40230N LONGITUDE 73460W DEPTH METERS 27.9

NO. SPECIES 13 NO. INDIVIDUALS 70 DIVERSITY 1.8600 EQUITABILITY 0.7251

SPECIES LISTING

SPECIES LISTING	COUNT
PHERUSA AFFINIS	1
EDWARDSIA ELEGANS	3
NUCULA PROXIMA	32
PITAR MORRHUANA	4
CERASTODERMA PINNULATUM	1
TELLINA AGILIS	1
THARYX ACUTUS	7
SPIO FILICORNIS	2
ASABELLIDES OCULATA	11
GLYCERA DIBRANCHIATA	2
LUMBRINERIS TENUIS	3
LUMBRINERIS FRAGILIS	1
NINOE NIGRIPES	2

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 905 SYMAP 905 GRAB 02 LATITUDE 40230N LONGITUDE 73460W DEPTH METERS 27.9

NO. SPECIES 15 NO. INDIVIDUALS 171 DIVERSITY 2.1391 EQUITABILITY 0.7899

SPECIES LISTING

SPECIES LISTING	COUNT
LUMBRINERIS FRAGILIS	12
PHERUSA AFFINIS	3
THARYX ACUTUS	47
PRIONOSPION STEENSTRUPI	15
GLYCERA DIBRANCHIATA	12
TELLINA AGILIS	10
PITAR MORRHUANA	11
NUCULA PROXIMA	7
UNCIOCLA IMPORATA	1
FOOTEA TRILOBATA	1
NINOE NIGRIPES	10
STHEMELAIS LIMICOLA	1
ETEONE LACTEA	1
PHYLLIDIOCE ARENAE	1
ASABELLIDES OCULATA	39

CRUISE 15/02/75
D7502

STATION NUMBER
CRUISE 906
SYMAP 906

GRAB 01

LATITUDE 40240N
LONGITUDE 73460W
DEPTH METERS 27.9

NO. SPECIES 7
NO. INDIVIDUALS 33
DIVERSITY 1.5522
EQUITABILITY 0.7977

COUNT

SPECIES LISTING

NEPHTYS INCISA
CERIANTHUS AMERICANUS
GLYCERA DIRRANCHIATA
ASABELLIDES OCULATA
DIOPATRA CUPREA
NINOE NIGRIPES
TELLINA AGILIS

CRUISE 15/02/75
D7502

STATION NUMBER
CRUISE 906
SYMAP 906

GRAB 02

LATITUDE 40240N
LONGITUDE 73460W
DEPTH METERS 27.9

NO. SPECIES 22
NO. INDIVIDUALS 177
DIVERSITY 1.7784
EQUITABILITY 0.5753

COUNT

SPECIES LISTING

NEMATODA
RHYNCHOCOELA
CERIANTHUS AMERICANUS
NINOE NIGRIPES
THARYX ACUTUS
PHERUSA AFFINIS
NEPHTYS INCISA
PRIONOSPIO STEENSTRUP
SPIOPHANES BOMBYX
ASABELLIDES OCULATA
MEDIOMASTUS AMBIOSETAE
NEREIS GRAYI
NEREIS VIRENS
NEREIS SUCCINEA
HARMOTHOE EXTENUATA
PHORONIS ARCHITECTA
PITAR MORRHUANA
UNCIOLA IRROGATA
EGGTEA TRILOBATA
PHYLLODOCE ARENAE
GLYCERA SP.
GLYCERA DIRRANCHIATA

CRUISE 07502 DATE 15/02/75 STATION CRUISE 907 SYMAP 907 GRAB 01 LATITUDE 40240N LONGITUDE 73470W DEPTH METERS 35.6

NO. SPECIES 13 NO. INDIVIDUALS 67 DIVERSITY 1.3176 EQUITABILITY 0.5137

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTHUS AMERICANUS	2
TELLINA AGILIS	2
NINOE NIGRIPES	1
ASARELLIDES OCULATA	47
NEPHTYS INCISA	4
PRIONOSPION STEENSTRUP	1
SPIOPHANES BOMBYX	1
RHYNCHOCOLA	1
EDWARDSIA SIPUNCULOIDES	1
PHORONIS ARCHITECTA	2
CERASTODERMA PINNULATUM	1
NUCULA PROXIMA	2
PITAR MORRHUANA	2

CRUISE 07502 DATE 15/02/75 STATION CRUISE 907 SYMAP 907 GRAB 02 LATITUDE 40240N LONGITUDE 73470W DEPTH METERS 35.6

NO. SPECIES 9 NO. INDIVIDUALS 54 DIVERSITY 1.6705 EQUITABILITY 0.7603

SPECIES LISTING

SPECIES LISTING	COUNT
PHORONIS ARCHITECTA	1
PITAR MORRHUANA	6
THAPYX ACUTUS	3
PRIONOSPION STEENSTRUP	1
ASARELLIDES OCULATA	25
NINOE NIGRIPES	3
NEPHTYS INCISA	8
PHERUSA AFFINIS	1
CERIANTHUS AMERICANUS	6

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 908 SYMAP 908 GRAB 01 LATITUDE 40240N LONGITUDE 73480W DEPTH METERS 37.1

NO. SPECIES 7 NO. INDIVIDUALS 32 DIVERSITY 1.2949 EQUITABILITY 0.6654

SPECIES LISTING	COUNT
NEPHTYS INCISA	19
RHYNCHOCOELA	1
CERIANTHUS AMERICANUS	6
PHORONIS ARCHITECTA	1
THARYX ACUTUS	2
NINOE NIGRIPES	2
COSSURA LONGICIRRATA	1

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 908 SYMAP 908 GRAB 02 LATITUDE 40240N LONGITUDE 73480W DEPTH METERS 37.1

NO. SPECIES 13 NO. INDIVIDUALS 92 DIVERSITY 2.0848 EQUITABILITY 0.8128

SPECIES LISTING	COUNT
NUCULA PROXIMA	9
YOLDIA LIMATULA	2
THYASIRA TRISTINUATA	2
CERASTODERMA PINNULATUM	1
PARAONIS GRACILIS	4
ETEONE LONGA	1
LUMBRINERIS TENNIS	3
NINOE NIGRIPES	11
THARYX ACUTUS	10
NEPHTYS INCISA	23
EDWARDSIA STIPUNCULOIDES	1
CERIANTHUS AMERICANUS	22
PHORONIS ARCHITECTA	3

CRUISE 07502 DATE 15/02/75 STATION CRUISE 909 SYMAP 909 GRAB 01 LATITUDE 40240N LONGITUDE 73490W DEPTH METERS 34.0

NO. SPECIES 6 NO. INDIVIDUALS 13 DIVERSITY 1.6313 EQUITABILITY 0.9105

SPECIES LISTING

SPECIES	COUNT
NEPHTYS INCISA	1
PHOLOE MINUTA	1
CERIANTHUS AMERICANUS	3
PHORONIS ARCHITECTA	3
NUCULA PROXIMA	4
THARYX ACUTUS	1

CRUISE 07502 DATE 15/02/75 STATION CRUISE 909 SYMAP 909 GRAB 02 LATITUDE 40240N LONGITUDE 73490W DEPTH METERS 34.0

NO. SPECIES 7 NO. INDIVIDUALS 107 DIVERSITY 0.9925 EQUITABILITY 0.5101

SPECIES LISTING

SPECIES	COUNT
CERIANTHUS AMERICANUS	14
PHORONIS ARCHITECTA	1
NUCULA PROXIMA	76
YOLDIA MYALIS	3
NINOE NIGRIPES	2
LUMBRINERIS TENUIIS	1
NEPHTYS INCISA	10

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 910 SYMAP 910 GRAB 01 LATITUDE 4024N LONGITUDE 73500W DEPTH METERS 31.0
 NO. SPECIES 15 NO. INDIVIDUALS 247 DIVERSITY 1.5452 EQUITABILITY 0.5706

COUNT

SPECIES LISTING
 PRIONOSPION STEENSTRUPII 5
 AMPHARETE ARCTICA 1
 NUCULA PROXIMA 31
 TELLINA AGILIS 6
 UNIO BIVALLE #2 1
 PITAR MORRHUANA 1
 PLACOCYPTEN MAGELLANICUS 1
 COPEPODA 1
 GLYCERA SP. 1
 MEDIOMASTUS AMBISSETAE 10
 NEPHTYS INCISA 2
 NINOE NIGRIPES 29
 THARYX ANNULOSUS 7
 THARYX ACUTUS 140
 PHERUSA AFFINIS 11

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 910 SYMAP 910 GRAB 02 LATITUDE 4024N LONGITUDE 73500W DEPTH METERS 31.0
 NO. SPECIES 17 NO. INDIVIDUALS 428 DIVERSITY 1.1633 EQUITABILITY 0.4106

COUNT

SPECIES LISTING
 RHYNCHOCOLA 2
 EDWARDSIA SIPUNCULOIDES 1
 CERIANTHUS AMERICANUS 15
 NUCULA PROXIMA 304
 PITAR MORRHUANA 7
 TELLINA AGILIS 3
 YOLDIA LIMATULA 1
 LUMBRINERIS TENUIIS 3
 NINOE NIGRIPES 2
 ASABELLIDES OCULATA 1
 NERETS SUCCINEA 1
 PHERUSA AFFINIS 2
 COSSURA LONGOCIRRATA 3
 THARYX ANNULOSUS 5
 THARYX ACUTUS 38
 NEPHTYS INCISA 39
 PHORONIS ARCHITECTA 1

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 911 SYMAP 911 GRAB 01 LATITUDE 40250N LONGITUDE 73500W DEPTH METERS 29.5

NO. SPECIES 15 NO. INDIVIDUALS 3595 DIVERSITY 0.1959 EQUITABILITY 0.0723

COUNT

SPECIES LISTING

LUMBRINERIS TENUIIS 15
 CEPRIANTHUS AMERICANUS 24
 LYONSIA HYALINA 1
 TELLINA AGILIS 9
 UNID BIVALVE #2 1
 PITAR MORRHUANA 17
 YOLDIA LIMATULA 1
 NUCULA PROXIMA 3488
 HYDROBIA MINUTA 2
 NASSARIUS TRIVITTATUS 3
 PHERUSA AFFINIS 3
 OPHIOGLYCERA GIGANTEA 1
 NEPHTYS INCISA 24
 THARYX ACUTUS 5
 NINOE NIGRIPES 1

CRUISE 07502 DATE 15/02/75 STATION NUMBER CRUISE 911 SYMAP 911 GRAB 02 LATITUDE 40250N LONGITUDE 73500W DEPTH METERS 29.5

NO. SPECIES 10 NO. INDIVIDUALS 918 DIVERSITY 0.2215 EQUITABILITY 0.0962

COUNT

SPECIES LISTING

THARYX ACUTUS 1
 THARYX ANNULOSUS 8
 AMPHARETE ARCTICA 1
 NUCULA PROXIMA 885
 TELLINA AGILIS 9
 PITAR MORRHUANA 2
 YOLDIA LIMATULA 1
 NEPHTYS INCISA 2
 LUMBRINERIS TENUIIS 7
 NINOE NIGRIPES 2

CRUISE 07502 DATE 16/02/75 STATION CRUISE 912 SYMAP 912 GRAB 01 LATITUDE 40250N LONGITUDE 73490W DEPTH METERS 31.6

NO. SPECIES 13 NO. INDIVIDUALS 444 DIVERSITY 0.8109 EQUITABILITY 0.3162

COUNT

SPECIES LISTING
 CERIANTHUS AMERICANUS
 THYASIRA FLUXOSA
 LUMBRINERIS TENUIS
 GLYCERA DIBRANCHIATA
 THARYX ANNULOSUS
 PHERUSA AFFINIS
 DRILONEREIS LONGA
 NINOE NIGRIPES
 NEPHTYS INCISA
 NUCULA PROXIMA
 TELLINA AGILIS
 YOLDIA MYALIS
 YOLDIA LIMATULA

15
 1
 3
 1
 19
 1
 3
 4
 25
 364
 6
 1
 1

19 CRUISE 07502 DATE 16/02/75 STATION CRUISE 912 SYMAP 912 GRAB 02 LATITUDE 40250N LONGITUDE 73490W DEPTH METERS 31.6

NO. SPECIES 10 NO. INDIVIDUALS 47 DIVERSITY 1.9641 EQUITABILITY 0.8530

COUNT

SPECIES LISTING
 NUCULA PROXIMA
 PITAR MORRHUANA
 TELLINA AGILIS
 HARMOTHOE IMBRICATA
 MEDIOMASTUS AMBRISETAE
 LUMBRINERIS TENUIS
 THARYX ACUTUS
 NINOE NIGRIPES
 DRILONEREIS MAGNA
 THARYX ANNULOSUS

5
 3
 1
 1
 2
 12
 9
 10
 1
 3

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 913 SYMAP 913 GRAB 01
 NO. SPECIES 21 NO. INDIVIDUALS 842 DIVERSITY 1.5040 LONGITUDE 73480W DEPTH METERS 34.0
 EQUITABILITY 0.4940

SPECIES LISTING

SPECIES LISTING	COUNT
EDWARDSIA SIPUNCULOIDES	6
CERIANTHUS AMERICANUS	27
PHORONIS ARCHITECTA	41
TELLINA AGILIS	7
NUCULA PROXIMA	531
UNIO BIVALVE #2	3
PITAR MORRHUANA	4
YOLDIA LIMATULA	1
COPEPODA	1
NEPHTYS INCISA	45
MEDIOMASTUS AMBISSETAE	12
COSSURA LONGOCIRRATA	19
PHERUSA AFFINIS	21
EUCHONE RUBROCINCTA	1
ASABELLIDES OCULATA	6
AMPHARETE ARCTICA	1
LUMBRINERIS TENUIS	3
NINDE NIGRIPES	4
THARYX ACUTUS	93
PARAONIS GRACILIS	13
OLIGOCHAETA	3

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 913 SYMAP 913 GRAB 02
 NO. SPECIES 20 NO. INDIVIDUALS 446 DIVERSITY 1.6830 LONGITUDE 73480W DEPTH METERS 34.0
 EQUITABILITY 0.5618

SPECIES LISTING

SPECIES LISTING	COUNT
CERIANTHUS AMERICANUS	29
NUCULA PROXIMA	250
EUCHONE RUBROCINCTA	1
THARYX ANNULOSUS	1
PRIONOSPION STEENSTRUPII	1
COSSURA LONGOCIRRATA	3
LUMBRINERIS TENUIS	23
NINDE NIGRIPES	11
THARYX ACUTUS	32
PHERUSA AFFINIS	22
NEPHTYS INCISA	45
ASABELLIDES OCULATA	6
EDWARDSIA SIPUNCULOIDES	3
PHORONIS ARCHITECTA	5
THYONE SP.	1
UNIO BIVALVE #2	2
PITAR MORRHUANA	8
TELLINA AGILIS	1
YOLDIA MYALIS	1
YOLDIA LIMATULA	1

CRUISE 07502 DATE 16/02/75 STATION CRUISE 914 SYMAP 914 GRAB 01 LATITUDE 40250N LONGITUDE 73470W DEPTH METERS 33.4
 NO. SPECIES 9 NO. INDIVIDUALS 31 DIVERSITY 1.8876 EQUITABILITY 0.8591

SPECIES LISTING	COUNT
CERIANTHUS AMERICANUS	8
PHORONIS ARCHITECTA	1
NUCULA PROXIMA	2
PITAR MORRHUANA	1
NEPHTYS INCISA	4
PRIONOSPION STEENSTRUPI	1
NINOE NIGRIPES	1
ASARELLIDES OCULATA	7
RHYNCHOCOELA	6

CRUISE 07502 DATE 16/02/75 STATION CRUISE 914 SYMAP 914 GRAB 02 LATITUDE 40250N LONGITUDE 73470W DEPTH METERS 33.4
 NO. SPECIES 10 NO. INDIVIDUALS 31 DIVERSITY 2.0108 EQUITABILITY 0.8733

SPECIES LISTING	COUNT
PHORONIS ARCHITECTA	2
NUCULA PROXIMA	1
UNCIOCLA TRRORATA	1
NINOE NIGRIPES	7
NEPHTYS INCISA	2
PHERUSA AFFINIS	1
PRIONOSPION STEENSTRUPI	1
ASARELLIDES OCULATA	8
RHYNCHOCOELA	4
CERIANTHUS AMERICANUS	4

CRUISE	DATE	STATION	NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH
07502	16/02/75	CRUISE	915	01	4°25'N	73°46'W	30.7
NO. SPECIES 24		NO. INDIVIDUALS		690	DIVERSITY 1.4991		EQUITABILITY 0.4717
SPECIES LISTING							
COUNT							
RHYNCHOCOELA							
CERIANTHUS AMERICANUS 4							
PRIONOSPION STEENSTRUPII 3							
PHERUSA AFFINIS 1							
OLIGOCHAETA 1							
NEMATODA 2							
PHORONIS ARCHITECTA 3							
NUCULA DELPHINODONTA 1							
NUCULA PROXIMA 1							
CERASTODERMA PINNULATUM 2							
TELLINA AGILIS 1							
UNCIOLOA IRROGATA 2							
COPEPODA 4							
CAPITELLA CAPITATA 1							
NINOE NIGRIPES 1							
THARYX ACUTUS 2							
DIOPATRA CUPREA 31							
NEPHTYS INCISA 34							
NEREIS SUCCINEA 6							
MEDIOMASTUS AMRISFATAE 31							
CAPITELLA CAPITATA 2							
ASABELLIDES OCULATA 325							
PARAONIS GRACILIS 225							
SPIOPHANES ROMBYX 2							
5							

CRUISE	DATE	STATION	NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH
07502	16/02/75	CRUISE	SYMAP	02	40250N	73460W	METERS
NO. SPECIES 21		NO. INDIVIDUALS	165		DIVERSITY 1.5893		EQUITABILITY 0.5220
SPECIES LISTING							
		RHYNCHOCOELA			COUNT		
		CERIANTHUS AMERICANUS			5		
		DIOPATRA CUPREA			8		
		ETEONE LACTEA			2		
		MEDIOMASTUS AMBISSETAE			1		
		CAPITELLA CAPITATA			1		
		NEPHTYS INCISA			10		
		SPIOPHANES BOMBYX			9		
		PRIONOSPPIO STEENSTRUP			8		
		NINOE NIGRIPES			2		
		GLYCERA DIBRANCHIATA			1		
		GLYCERA SP.			1		
		ASABELLIDES OCULATA			105		
		PHERUSA AFFINIS			3		
		CERASTODERMA PINNULATUM			1		
		NASSARIUS TRIVITTATUS			1		
		PAGURUS LONGICARPUS			1		
		UNCIOLO IRRORATA			2		
		EDDIEA TRILOBA			1		
		OLIGOCHAETA			1		
		NEREIS SUCCINEA			1		

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 916 SYMAP 916 GRAB 01 LATITUDE 40260N LONGITUDE 73460W DEPTH METERS 29.2

NO. SPECIES 18 NO. INDIVIDUALS 192 DIVERSITY 2.2473 EQUITABILITY 0.7775

SPECIES LISTING

CERANTHUS AMERICANUS	COUNT
PHYLLODOCE ARENAE	19
NINOE NIGRIPES	1
SPIOPHANES ROMBYX	7
SPIO FILICORNIS	2
ASABELLIDES OCULATA	21
SPHERUSA AFFINIS	31
NEMATODA	5
RHYNCHOCOFLA	2
NUCULA PROXIMA	4
UNCIOLO IRRORATA	8
ACLAOPHAMUS CIRCINATA	2
NEPHTYS INCISA	1
PRIONOSPION STEENSTRUPI	1
THARYX ACUTUS	23
ETEONE LACTEA	54
GLYCERA SP.	1
GLYCERA DIBRANCHIATA	5

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 916 SYMAP 916 GRAB 02 LATITUDE 40260N LONGITUDE 73460W DEPTH METERS 29.2

NO. SPECIES 22 NO. INDIVIDUALS 261 DIVERSITY 2.1076 EQUITABILITY 0.6818

SPECIES LISTING

NEMATODA	COUNT
RHYNCHOCOFLA	2
CERANTHUS AMERICANUS	1
ASABELLIDES OCULATA	10
PARANAITIS KOSTERTIENSIS	94
GLYCERA SP.	1
OLIGOCHAETA	1
NUCULA PROXIMA	2
UNCIOLO IRRORATA	2
CANCER IRRORATUS	3
SPIO FILICORNIS	4
ACLAOPHAMUS CIRCINATA	6
NEPHTYS INCISA	1
LUMBRINERIS FRAGILIS	5
NEREIS GRAYI	1
SPIOPHANES ROMBYX	2
MENTOMASTUS AMBISSETAE	2
PRIONOSPION STEENSTRUPI	8
NINOE NIGRIPES	56
THARYX ACUTUS	24
SPHERUSA AFFINIS	25
GLYCERA DIBRANCHIATA	5
	6

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH
07502	16/02/75	917	917	91		40260N	73470W	29.5
NO. SPECIES 22		NO. INDIVIDUALS	972			DIVERSITY 1.5254		EQUITABILITY 0.4935
SPECIES LISTING								
		CERIANTHUS AMERICANUS				COUNT		
		PHORONIS ARCHITECTA				10		
		TELLINA AGILIS				67		
		NUCULA PROXIMA				5		
		PITAR MORRHUANA				12		
		LACUNA VINCTA				2		
		UNCIOLOA IRRORATA				1		
		ETEONE LONGA				1		
		ARICIDEA JEFFREYSII				1		
		MEDIOMASTUS AMBISSETAE				123		
		CAPITELLA CAPITATA				2		
		COSSURA LONGOCIRRATA				3		
		THARYX ACUTUS				583		
		SPIOPHANES BOMBYX				1		
		PRIONOSPPIO STEENSTRUPI				49		
		NEPHTYS INCISA				27		
		ASABELLIDES OCULATA				52		
		EUCHONE RUBROCINCTA				4		
		PHERUSA AFFINIS				10		
		NINOE NIGRIPES				11		
		NEMATODA				6		
		RHYNCHOCOELA				1		

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH
07502	16/02/75	917	917	02		40260N	73470W	29.5
NO. SPECIES 17		NO. INDIVIDUALS	392			DIVERSITY 1.4796		EQUITABILITY 0.5222
SPECIES LISTING								
		NEPHTYS INCISA				COUNT		
		EDWARDSIA SIPUNCULOIDES				23		
		CERIANTHUS AMERICANUS				1		
		GLYCERA DIRRANCHIATA				14		
		NINOE NIGRIPES				1		
		PRIONOSPPIO STEENSTRUPI				7		
		COSSURA LONGOCIRRATA				16		
		ETEONE LONGA				1		
		PHERUSA AFFINIS				1		
		THARYX ACUTUS				19		
		ASABELLIDES OCULATA				244		
		PHORONIS ARCHITECTA				41		
		TELLINA AGILIS				9		
		NUCULA PROXIMA				1		
		UNCIOLOA IRRORATA				10		
		ONUPHIS QUADRICUSPIS				2		
		NEREIS GRAYI				1		

CRUISE 07502 DATE 16/02/75 STATION CRUISE SYMAP GRAB LATITUDE LONGITUDE DEPTH
 07502 16/02/75 918 918 01 40260N 73480W 31.3

NO. SPECIES 29 NO. INDIVIDUALS 823 DIVERSITY 2.1355 EQUITABILITY 0.6342

SPECIES LISTING

EDWARDSIA SIPUNCULOIDES	1
CERTANTHUS AMERICANUS	20
PRIONOSPITO STEENSTRUPI	7
MEDIOMASTUS AMBISSETAE	13
EUCHONE RUBROCINCTA	1
PERUSA AFFINIS	66
COSSURA LONGOCIRRATA	6
GONIADA NORVEGICA	1
NEMATODA	7
RHYNCHOCOELA	4
PHORONIS ARCHITECTA	24
THYASIRA TRISINUATA	1
YOLDIA MYALIS	1
CERASTODERMA PINNULATUM	4
TELLINA AGILIS	13
UNID BIVALVE #2	14
NUCULA PROXIMA	159
PITAR MORRHUANA	19
HYDROBIA MINUTA	3
UNCIOLO IRRODATA	2
OLIGOCHAETA	1
THARYX ACUTUS	287
NINOE NIGRIPES	3
ETEONE LONGA	1
PARAONIS GRACILIS	1
NEPHTYS INCISA	52
LUMBRINERIS TENUIS	3
ASABELLIDES OCULATA	116
SPIOPHANES BOMBYX	3

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
D752	16/02/75	91R	91R	918	02	40260N	73480W	31.3
NO. SPECIES 20		NO. INDIVIDUALS 288		DIVERSITY 1.9424		EQUITABILITY 0.6484		
SPECIES LISTING								
CERTANTHUS AMERICANUS 15								
PRIONOSPIO STEENSTRUPII 1								
MEDIOMASTUS AMBISSETAE 2								
LUMBRINERIS TENUIS 1								
SPIOPHANES BOMBYX 1								
PHERUSA AFFINIS 6								
NEPHTYS INCISA 41								
NINOE NIGRIPES 3								
THARYX ACUTUS 94								
ASABELLIDES OCULATA 10								
PARANAITIS KOSTERIENSIS 1								
COSSURA LONGOCIRRATA 3								
EDWARDSIA SIPUNCULOIDES 2								
PHORONIS ARCHITECTA 16								
PITAR MORRHUANA 6								
NUCULA PROXIMA 80								
TELLINA AGILIS 1								
UNID BIVALVE #2 2								
YOLDIA LIMATULA 1								
EUCHONE RUBROCINCTA 2								

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 919 SYMAP 919 GRAB 01 LATITUDE 40260N LONGITUDE 73490W DEPTH METERS 31.6
 NO. SPECIES 23 NO. INDIVIDUALS 1094 DIVERSITY 0.8154 EQUITABILITY 0.2600

SPECIES LISTING	COUNT
CERIANTHUS AMERICANUS	19
PARAONIS GRACILIS	1
LUMBRINERIS TENUIS	19
NINOE NIGRIPES	1
NEPHTYS INCISA	25
THARYX ACUTUS	43
THARYX ANNULOSUS	27
RHYNCHOCOLA	1
EDWARDSIA SIPUNCULOIDES	3
PHORONIS ARCHITECTA	7
CERASTODERMA PINNULATUM	1
PITAR MORRHUANA	2
MYA ARENARIA	1
TELLINA AGILIS	9
UNIO BIVALVE #2	1
NUCULA PROXIMA	918
NASSARIUS TRIVITTATUS	1
OLIGOCHAETA	1
MEDIOMASTUS AMBISSETAE	1
COSSURA LONGICIRRATA	2
PRIONOSPITO STEENSTRUPT	2
PHERUSA AFFINIS	8
ASABELLIDES OCULATA	1

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 919 SYMAP 919 GRAB 02 LATITUDE 40260N LONGITUDE 73490W DEPTH METERS 31.6
 NO. SPECIES 13 NO. INDIVIDUALS 2222 DIVERSITY 0.1939 EQUITABILITY 0.0756

SPECIES LISTING	COUNT
GLYCERA DIBRANCHIATA	2
CERIANTHUS AMERICANUS	7
PHORONIS ARCHITECTA	3
PITAR MORRHUANA	6
TELLINA AGILIS	7
YOLDIA MYALIS	2
NUCULA DELPHINODONTA	2
NUCULA PROXIMA	2158
NINOE NIGRIPES	1
THARYX ACUTUS	9
LUMBRINERIS FRAGILIS	2
PHERUSA AFFINIS	6
NEPHTYS INCISA	17

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE SYMAP 920 GRAB 01 LATITUDE 40260N LONGITUDE 73500W DEPTH METERS 26.4
 NO. SPECIES 14 NO. INDIVIDUALS 49 DIVERSITY 2.2813 EQUITABILITY 0.8644

SPECIES LISTING

NINOE NIGRIPES	COUNT
GLYCERA DIBRANCHIATA	6
PHERUSA AFFINIS	1
DRILONEREIS LONGA	3
LUMBRINERIS TENUIS	1
PHORONIS ARCHITECTA	5
NUCULA PROXIMA	1
MEDIOMASTUS AMBISSETAE	13
ETEONE LONGA	1
NEPHTYS INCISA	2
PRIONOSPPIO STEENSTRUPI	1
THARYX ACUTUS	5
THARYX ANNULOSUS	1
ASABELLIDES OCULATA	3
	6

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE SYMAP 920 GRAB 02 LATITUDE 40260N LONGITUDE 73500W DEPTH METERS 26.4
 NO. SPECIES 17 NO. INDIVIDUALS 133 DIVERSITY 2.1368 EQUITABILITY 0.7542

SPECIES LISTING

NINOE NIGRIPES	COUNT
NEMATODA	16
CERIANTHUS AMERICANUS	1
PRIONOSPPIO STEENSTRUPI	20
PHERUSA AFFINIS	1
LUMBRINERIS TENUIS	3
DRILONEREIS LONGA	43
PHORONIS ARCHITECTA	6
ENSIS DIRECTUS	1
NUCULA PROXIMA	1
PHOXOCEPHALUS HOLROLLI	10
UNCIOLA SERRATA	1
CANCER IRROGATUS	4
THARYX ANNULOSUS	1
ASABELLIDES OCULATA	17
AMPHARETE ARCTICA	1
THARYX ACUTUS	2
	5

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 921 SYMAP 921 GRAB 01 LATITUDE 40270N LONGITUDE 73500W DEPTH METERS 27.3

NO. SPECIES 16 NO. INDIVIDUALS 3117 DIVERSITY 0.4485 EQUITABILITY 0.1617

SPECIES LISTING

SPECIES LISTING	COUNT
SPHEROSA AFFINIS	25
CERIANTHUS AMERICANUS	21
LUMBRINERIS FRAGILIS	2
LUMBRINERIS TENUIS	22
DRILONEREIS LONGA	1
NEPHTYS INCISA	36
PHORONIS ARCHITECTA	11
NUCULA PROXIMA	2868
PITAR MORRHUANA	18
UNID BIVALVE #2	4
TELLINA AGILIS	14
YOLDIA MYALIS	1
NASSARIUS TRIVITTATUS	1
COSSURA LONGOCIRRATA	2
THARYX ACUTUS	81
THARYX ANNULOSUS	10

30

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 921 SYMAP 921 GRAB 02 LATITUDE 40270N LONGITUDE 73500W DEPTH METERS 27.3

NO. SPECIES 16 NO. INDIVIDUALS 2600 DIVERSITY 0.3187 EQUITABILITY 0.1149

SPECIES LISTING

SPECIES LISTING	COUNT
PITAR MORRHUANA	6
LUMBRINERIS TENUIS	14
LUMBRINERIS FRAGILIS	1
SPIOPHANES ROMBYX	1
THARYX ANNULOSUS	19
TELLINA AGILIS	5
UNID BIVALVE #2	1
NUCULA PROXIMA	2466
PHORONIS ARCHITECTA	3
YOLDIA LIMATULA	3
EDWARDSIA STIPUNCULOIDES	1
CERIANTHUS AMERICANUS	21
THARYX ACUTUS	19
NEPHTYS INCISA	25
SPHEROSA AFFINIS	14
AMPHARETE ARCTICA	1

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 922 SYMAP 922 GRAB 01 LATITUDE 40270N LONGITUDE 73490W DEPTH METERS 27.6
 NO. SPECIES 18 NO. INDIVIDUALS 1962 DIVERSITY 0.6459 EQUITABILITY 0.2235

SPECIES LISTING

LUMBRINERIS TENUIS 19
 NEMPTYS INCISA 32
 CERIANTHUS AMERICANUS 25
 NUCULA PROXIMA 1795
 PHERUSA AFFINIS 15
 YOLDIA LIMATULA 2
 TELLINA AGILIS 13
 COSSURA LONGOCIRRATA 1
 ASABELLIDES OCULATA 7
 PRIONOSPIC STEENSTRUPI 1
 POTAMILLA NEGLECTA 1
 THARYX ANNULOSUS 2
 THARYX ACUTUS 107
 PHORONIS ARCHITECTA 1
 UNIO BIVALVE #2 3
 CERASTODERMA PINNULATUM 3
 PITAP MORRHUANA 24
 YOLDIA MYALIS 1

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 922 SYMAP 922 GRAB 02 LATITUDE 40270N LONGITUDE 73490W DEPTH METERS 27.6
 NO. SPECIES 14 NO. INDIVIDUALS 712 DIVERSITY 1.1000 EQUITABILITY 0.4168

SPECIES LISTING

DRILONEREIS LONGA 1
 ASABELLIDES OCULATA 3
 EDWARDSIA ELEGANS 1
 CERIANTHUS AMERICANUS 32
 NUCULA PROXIMA 527
 NUCULA DELPHINODONTA 3
 PITAP MORRHUANA 2
 LUMBRINERIS TENUIS 14
 NEMPTYS INCISA 21
 PHERUSA AFFINIS 18
 THARYX ANNULOSUS 23
 THARYX ACUTUS 56
 PHORONIS ARCHITECTA 9
 YOLDIA LIMATULA 2

CRUISE 07502 DATE 16/02/75 NO. SPECIES 13

STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
923	923	Q1	Q1	47270N	73480W	28.2

NO. INDIVIDUALS 210 DIVERSITY 1.8731 EQUITABILITY 0.7303

SPECIES LISTING

SPECIES	COUNT
PITAR MORRHUANA	3
NUCULA PROXIMA	78
CERIANTHUS AMERICANUS	24
PHORONIS ARCHITECTA	16
CERASTODERMA PINNULATUM	1
YOLDA LIMATULA	1
NINOE NIGRIPES	1
LUMBRINERIS FRAGILIS	6
LUMBRINERIS TENUIS	9
NEPHTYS INCISA	44
THARYX ANNULOSUS	3
THARYX ACUTUS	23
PHERUSA AFFINIS	4

32 CRUISE 07502 DATE 16/02/75 NO. SPECIES 20

STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
923	923	Q2	Q2	47270N	73480W	28.2

NO. INDIVIDUALS 269 DIVERSITY 2.0288 EQUITABILITY 0.6772

SPECIES LISTING

SPECIES	COUNT
NEPHTYS INCISA	36
TELLINA AGILIS	2
EDWARDSIA STIPUNCULOIDES	1
CERIANTHUS AMERICANUS	29
PHORONIS ARCHITECTA	10
NUCULA PROXIMA	72
PITAR MORRHUANA	3
UNID RIVALVE #2	1
CERASTODERMA PINNULATUM	1
OPHIOGLYCERA GIGANTEA	1
ASARELLIDES OCULATA	2
OLIGOCHAETA	3
COSSURA LONGICIPRATA	6
NINOE NIGRIPES	1
LUMBRINERIS TENUIS	7
LUMBRINERIS FRAGILIS	3
MEDIOMASTUS AMBISSETAE	2
THARYX ACUTUS	79
THARYX ANNULOSUS	8
PHERUSA AFFINIS	2

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 924 SYMAP 924 GRAB 01 LATITUDE 40270N LONGITUDE 73470W DEPTH METERS 28.2

NO. SPECIES 22 NO. INDIVIDUALS 493 DIVERSITY 1.9345 EQUITABILITY 0.6258

SPECIES LISTING	COUNT
AMPHARETE ARCTICA	1
PITAR MORRHUANA	2
CERASTODERMA PINNULATUM	1
PHORONIS ARCHITECTA	58
NUCULA PROXIMA	11
TELLINA AGILIS	3
UNIO BIVALVE #2	1
COPEPODA	1
PHERUSA AFFINIS	14
NEPHTYS INCISA	23
ASABELLIDES OCULATA	13
OLIGOCHAETA	4
NEMATODA	17
CERIANTHUS AMERICANUS	31
PRIONOSPID STEENSTRUPI	6
SPIOPHANES BOMBYX	4
DRILONEREIS LONGA	1
MEGIOMASTUS AMRISSETAE	3
THARYX ANNULOSUS	7
THARYX ACUTUS	239
LUMBRINERIS TENUIS	49
NINOE NIGRIPES	11

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 924 SYMAP 924 GRAB 02 LATITUDE 40270N LONGITUDE 73470W DEPTH METERS 28.2

NO. SPECIES 17 NO. INDIVIDUALS 366 DIVERSITY 2.0072 EQUITABILITY 0.7085

SPECIES LISTING	COUNT
PITAR MORRHUANA	3
THARYX ANNULOSUS	9
CERIANTHUS AMERICANUS	31
LUMBRINERIS TENUIS	19
GONIADA NORVEGICA	1
ASABELLIDES OCULATA	17
SPIOPHANES BOMBYX	1
NEPHTYS INCISA	28
NINOE NIGRIPES	4
THARYX ACUTUS	156
OLIGOCHAETA	7
NEMATODA	8
EDWARDSIA SIPUNCULOIDES	3
PHORONIS ARCHITECTA	47
TELLINA AGILIS	1
NUCULA PROXIMA	25
PHERUSA AFFINIS	7

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 925 SYMAP 925 GRAB 01 LATITUDE 4027N LONGITUDE 7346W DEPTH METERS 28.5

NO. SPECIES 17 NO. INDIVIDUALS 225 DIVERSITY 1.7285 EQUITABILITY 0.6101

COUNT

SPECIES LISTING

GONIADA NORVEGICA	1
LUMBRINERIS TENUIS	2
NEPHTYS INCISA	20
MEDIOMASTUS AMBISSETAF	2
ARICIDEA JEFFREYSII	1
PRIONOSPION STEENSTRUPI	7
SPIOPHANES BOMBYX	3
THARYX ACUTUS	115
ASABELLIDES OCULATA	18
PHERUSA AFFINIS	5
NEMATODA	2
CERIANTHUS AMERICANUS	34
UNCIOLOA TERRORATA	1
OLIGOCHAETA	1
NINOE NIGRIPES	3
PHORONIS ARCHITECTA	9
PITAR MORRHUANA	1

CRUISE 07502 DATE 16/02/75 STATION NUMBER CRUISE 925 SYMAP 925 GRAB 02 LATITUDE 4027N LONGITUDE 7346W DEPTH METERS 28.5

NO. SPECIES 15 NO. INDIVIDUALS 196 DIVERSITY 1.9983 EQUITABILITY 0.7379

COUNT

SPECIES LISTING

NEMATODA	5
CERIANTHUS AMERICANUS	28
NINOE NIGRIPES	11
OLIGOCHAETA	2
PRIONOSPION STEENSTRUPI	6
LUMBRINERIS TENUIS	2
SPIOPHANES BOMBYX	4
ASABELLIDES OCULATA	3
THARYX ACUTUS	82
PHERUSA AFFINIS	6
NEPHTYS INCISA	19
MEDIOMASTUS AMBISSETAE	11
PHORONIS ARCHITECTA	14
NUCULA PROXIMA	1
PITAR MORRHUANA	2