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Distribution and Abundance of Benthic
Organisms in the New York Bight Apex 1
2-6 August 1973

National Oceanic and Atmospheric Administration, Boulder, Colo

Apr 76

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NOAA Data Report ERL MESA-8

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Environmental Research Laboratories

DISTRIBUTION AND ABUNDANCE OF BENTHIC ORGANISMS
IN THE NEW YORK BIGHT APEX, 2-6 AUGUST 1973

John Pearce
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Janice Caracciolo
Martha Halsey
Leslie Rogers

Marine EcoSystems Analysis Program Office
Boulder, Colorado
April 1976

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IN THE NEW YORK BIGHT APEX,
2-6 August 1973*

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

Ecosystems Investigations
Middle Atlantic Coastal Fisheries Center
Highlands, New Jersey

June 1975

- * These data were generated by Ecosystems Investigations, Middle Atlantic Coastal Fisheries Center, 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 Middle Atlantic Coastal Fisheries Center, and will form the basis for subsequent publications.

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Figure 1. Location of standard MESA grid stations sampled for benthic macroinvertebrates during 2-6 August 1973.

Table I. Machine listed data collected at standard MESA grid stations during 2-6 August 1973. See text for details concerned with headings provided for each grab sample.

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INTRODUCTION

During the period 2-6 August 1973, personnel of Ecosystems Investigations, Middle Atlantic Coastal Fisheries Center, collected a series of benthic grab samples at standard sampling stations located on the New York Bight apex MESA grid (Fig. 1). These samples were collected from the R/V Albatross IV during Cruise A-73-1. The cruise was designed so that five (5) replicate Smith-McIntyre grab samples could be taken at each MESA grid station. All stations were located using the precise RAYDIST navigational system. In addition to the benthic macrofauna, samples were collected for: sediment grain size analyses

and sediment heavy metal burdens; benthic meiofaunal studies including the nematodes, harpacticoid copepods and ciliate protozoans; and seabed oxygen consumption rates.

The present data report was prepared in order to provide machine listed data and certain statistical calculations (diversity and equitability) concerned with the seasonal distribution and abundance of benthic invertebrates at standard stations located on the New York Bight apex MESA grid.

These data are listed by latitude and longitude as well as by station number and they can therefore provide a seasonal baseline for the distribution and abundance of benthic invertebrates useful for comparison with similar seasonal data collected in October 1973, January 1974, March 1974 and August 1974 at the same MESA grid stations. They can also be compared with those historical benthic data collected during the period 1968-1971 prior to the intensive MESA benthic sampling activities in the Bight apex. The total data resulting from all seasonal cruises in the New York Bight apex will be of value in assessing seasonal and annual fluctuations in the distribution and abundance of benthic assemblages as well as determining long range changes which might occur in benthic populations following pollution abatement or intensified waste disposal programs in the Bight.

SAMPLING PROCEDURES

The benthic invertebrate samples were collected using a Smith-McIntyre quantitative bottom grab sampler (Smith and McIntyre, 1954). Before emptying grab samples into plastic holding tubs, subsamples of the surficial sediments were removed for special geological analyses. Two aliquots were removed in 3.7 cm diameter plastic coring tubes for analyses for sediment grain size and other geological characteristics as well as for heavy metal burden. Geological analyses were performed by Dr. Anthony Cok, Geology Department, Adelphi University. Heavy metal content was analyzed for by the Environmental Chemistry and Microbiology Investigation, Middle Atlantic Coastal Fisheries Center, using standard acid extraction and atomic absorption spectrophotometer methodology.

Following the removal of sediment aliquots, each grab sample was dropped into a holding tub and subsequently washed through a series of standardized geological screens having a minimum aperture of 1.00 mm. The materials retained on the 4, 2 and 1.00 mm screens were narcotized in a 7.5% MgCl saline solution, fixed in 5% formalin and preserved in 70% ethanol containing 5% glycerol. The organisms were then sorted from the organic and inorganic debris using hand lens and dissecting microscopes, identified and bottled according to species or higher taxa.

RESULTS

Stations at which grab samples for benthic macroinvertebrates were collected are indicated on Fig. 1. Table I is comprised of a series of machine processed data. The heading for each group of data contains the station number where a Smith-McIntyre grab sample was collected; the date on which the sample was collected; the water depth of the station as recorded by a chart strip recording fathometer; the latitude and longitude of the station; the number of species and individuals found on the 1.00 mm and larger screens; and the machine computed diversity (Shannon and Weaver 1963) and equitability of the benthic macroinvertebrate assemblage.

It should be emphasized that the station numbers provided are those used to designate sampling stations within the New York Bight apex MESA grid and should not be confused with similar station numbers used to designate stations located within the proposed interim alternate disposal sites or at a series of stations recently collected from in the 20-35 fathom corridor between Cape May and Montauk Point; all of these sampling sites are recently reported on in regard to benthic macroinvertebrate data.

Little detailed interpretation will be given to these data (Table I) except to note that some comparisons and discussion were recently made (Pearce, 1975) between them and similar

data from stations in the Baltimore Canyon Trough and other portions of the continental shelf within the Middle Atlantic Bight. It should also be stressed that the preliminary comparisons of data collected in August 1973 with similar data collected in August 1974 indicate substantial annual variation in the abundance and distribution of the components of benthic assemblages in the New York Bight apex.

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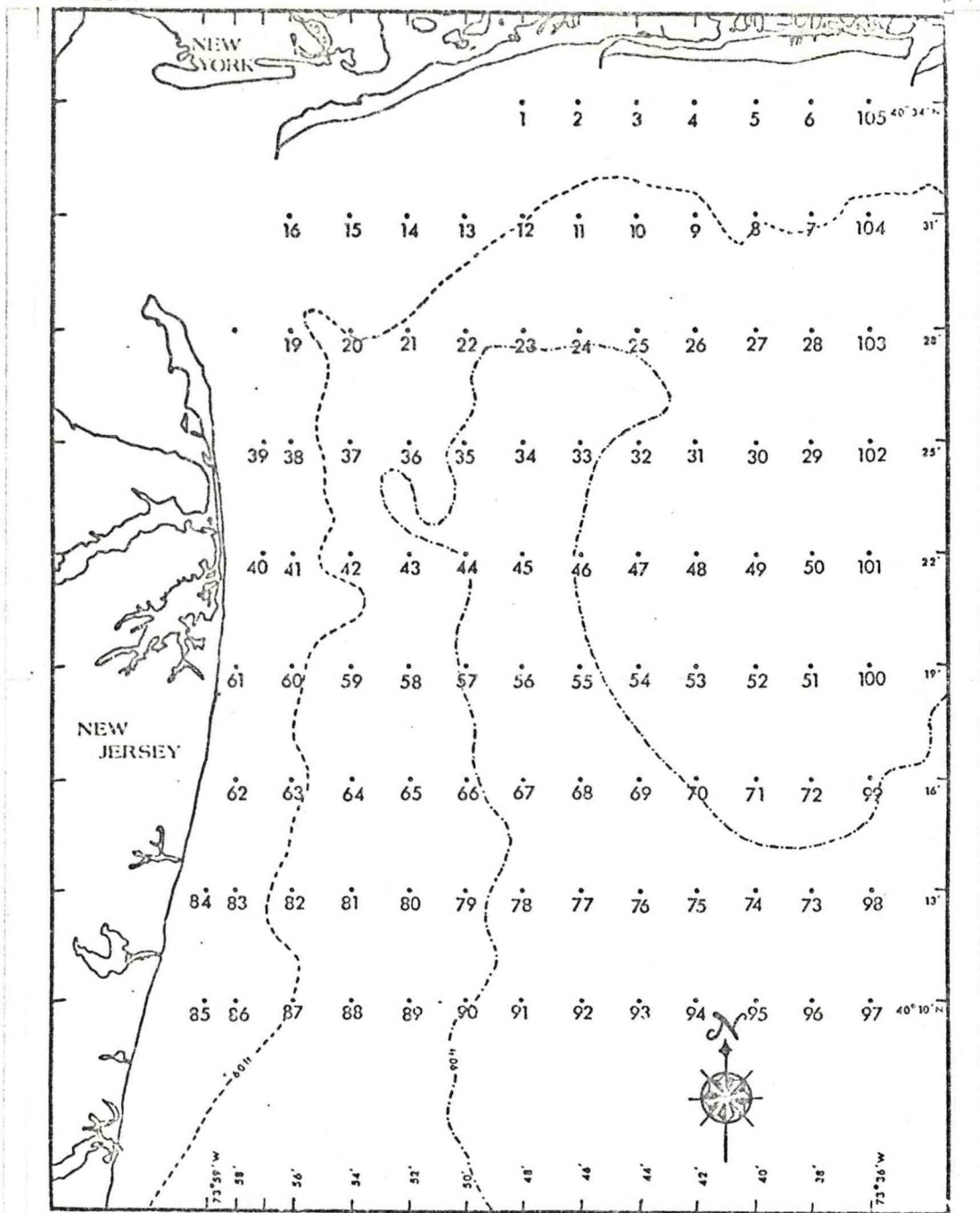


Figure 1. Location of standard MESA grid stations sampled for benthic macroinvertebrates during 2-6 August 1973.

Table I. Machine listed data collected at standard MESA grid stations during 2-6 August 1973. See text for details concerned with headings provided for each grab sample. Five grab samples were taken at each station; at most stations more than one grab sample has been sorted, identified and reported. Where multiple grabs for each station have been worked up the grab number is indicated in the heading.

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
47301	03/08/73	001	1	01	4034 N	7348 W	17.3
NO. SPECIES	10	NO. INDIVIDUALS	35	DIVERSITY	1.9715	EQUITABILITY	0.851

SPECIES LISTING	COUNT
HEMIPODUS ARMATUS	4
NEPHTYS BUCERA	3
SPIGULA SOLIDISSIMA	4
PROTODRILUS SYMBIOTICUS	8
TELLINA AGILIS	10
NEOMYSIS AMERICANA	2
AMPELISCA SP.	1
HIPIDOMECON SERRATUS	1
CANCER IRROCRATUS	1
CRANGON SEPTEMSPINOSA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	002	2		01	4034 N	7346 W	20.3
NO. SPECIES 10		NO. INDIVIDUALS 33		DIVERSITY 1.9122		EQUITABILITY 0.8309		

SPECIES LISTING	COUNT
GLYCERA SP.	2
STHENELAIS LIMICOLA	2
NEOMYSIS AMERICANA	2
CANCER IRRORATUS	1
SPIOPHANES BOMBYX	3
NEPHTYS PICTA	7
AGLACPHAMUS SP.	2
SPISULA SOLIDISSIMA	1
TELLINA AGILIS	12
AMPHARETE ARCTICA	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	002	2		02	4034 N	7346 W	20.3
NO. SPECIES 13		NO. INDIVIDUALS 54		DIVERSITY 2.2756		EQUITABILITY 0.887		

SPECIES LISTING	COUNT
GLYCERA DIBRANCHIATA	1
ASTERIAS FORBESII	7
MAGELONA ROSEA	1
TELLINA AGILIS	9
HAPLOSCHLOPLOS ROBUSTUS	1
STHENELAIS LIMICOLA	1
NEPHTYS PICTA	4
NEPHTYS BUCERA	1
ASARELLIDES OCULATA	2
NEOMYSIS AMERICANA	7
CRANGON SEPTENSPINOSA	6
SPISULA SOLIDISSIMA	9
CANCER IRRORATUS	5

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	03/08/73	002 2	03	4034 N	7346 W	20.3	
NO. SPECIES	9	NO. INDIVIDUALS	28	DIVERSITY	2.0258	EQUITABILITY	0.9220

SPECIES LISTING	COUNT
STHENELEIS LIMICOLA	2
SPISULA SOLIDISSIMA	4
SPIOPHANES BOMBYX	5
TELLINA AGILIS	7
NEPHTYS PICTA	3
NUCULA PROXIMA	1
CANCER IRROCRATUS	2
NEOMYSIS AMERICANA	3
ASABELLIDES OCULATA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	03/08/73	002 2	04	4034 N	7346 W	20.3	
NO. SPECIES	12	NO. INDIVIDUALS	112	DIVERSITY	1.6959	EQUITABILITY	0.682

SPECIES LISTING	COUNT
SPISULA SOLIDISSIMA	2
TELLINA AGILIS	5
NEPHTYS PICTA	1
RHYNCHOCOLA	1
CANCER IRROCRATUS	2
HEMIPODUS ARMATUS	37
NEPHTYS BUCERA	4
PROTODRILUS SYMBIOTICUS	22
UNCULA IRROCRATA	2
TEPHYX ACUTUS	24
ARCTIDEA JEFFREYSII	1
NINOE NIGRIPES	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	003	3	C1	4034 N	7344 W	21.2
NO. SPECIES	7	NO. INDIVIDUALS	34	DIVERSITY	1.5399	EQUITABILITY	0.791

SPECIES LISTING	COUNT
ECHINARACHNIUS PARMA	1
TELLINA AGILIS	11
SPIOPHANES BOBYX	5
TRICHOPOXUS EPISTOMUS	1
PECTOHAIJSTORIUS DEICHMANNAE	12
HAPLOSCHLOPLES ROBUSTUS	1
NEPHTYS PICTA	3

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	004	4		01	4034 N	7342 W	19.7
D. SPECIES 17		NO. INDIVIDUALS	115	DIVERSITY	2.0021	EQUITABILITY	0.7067	

SPECIES LISTING	COUNT
ASTERIAS FORBESII	5
MYTILUS EDULIS	15
PHORONIS ARCHITECTA	3
MEDIOCASTUS AMBISETAE	1
THARYX MARICNT	1
SPIOPHANES BOMBYX	3
ASABELLIDES OCULATA	6
CRANGON SEPTEMSPINOSA	2
NEOMYSTS AMERICANA	3
PCLYDOPA LIGNI	1
TELLINA AGILIS	48
LUNATIA FERCS	1
LEPTOCUMA MINOR	1
NOTOMASTUS LATERICEUS	1
THARYX ACUTUS	17
SCOLOPLOS ACUTUS	1
DRILONERFIS LONGA	6

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	004	4		02	4034 N	7342 W	19.7
E. SPECIES 13		NO. INDIVIDUALS	107	DIVERSITY	1.4249	EQUITABILITY	0.5555	

SPECIES LISTING	COUNT
CRANGON SEPTEMSPINOSA	1
THARYX ACUTUS	56
SPIOPHANES BOMBYX	1
UNCICLA IPERCRATA	1
HEMIPODUS ARMATUS	29
PRETOORILUS SYMBIOTICUS	3
PARAPIONOSYLLIS LONGICIRRATA	1
NEOMYSTS AMERICANA	1
NEPHTYS BUCERA	2
DRILONERFIS LONGA	1
CHIRIDOTEA TUETSI	1
OPHELIA DENTICULATA	1
PARADONIS GRACILIS	9

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	004	4		03	4034 N	7342 W	19.7
NO. SPECIES 14		NO. INDIVIDUALS		55	DIVERSITY 1.6988		EQUITABILITY 0.6437	

SPECIES LISTING	COUNT
CRANGON SEPTENSPINOSA	1
EDOTEA TRILCBA	1
ORBINIA CRNATA	1
THARYX ACUTUS	9
UNCIOLA IRRCRATA	1
TELLINA AGILIS	38
RHYNCHOCCELA	1
NEOMYSIS AMERICANA	8
PROTOPILUS SYMBIOTICUS	3
SPI SULA SOLIDISSIMA	1
NEPHTYS BUCERA	1
SPIOPHANES COMBYX	28
ASABELLIDES OCOLATA	1
GLYCERA AMERICANA	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	004	4		04	4034 N	7342 W	19.7
NO. SPECIES 10		NO. INDIVIDUALS		47	DIVERSITY 1.3731		EQUITABILITY 0.5963	

SPECIES LISTING	COUNT
SPIC FILICORNIS	1
THARYX ACUTUS	20
TELLINA AGILIS	4
DRILONEIREIS LONGA	2
CANCER IRRCRATUS	1
HEMIPODIUS ARMATUS	4
PARADONIS LYRA	1
OVALIPES OCELLATUS	1
SPI SULA SOLIDISSIMA	1
NEOMYSIS AMERICANA	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH
A7301	03/08/73	CRUISE	SYMAP	01	4034 N	7340 W	METERS
		005	5				17.3

NO. SPECIES 13 NO. INDIVIDUALS 675 DIVERSITY 0.7668 EQUITABILITY 0.29

SPECIES LISTING	COUNT
LUNATIA HEROS	1
RHYNCHOCOLA	2
CRANGON SEPTENSPINOSA	1
PROTODRILLUS SYMBIOTICUS	92
SPIC FILICORNIS	8
ENSTIS DIRECTUS	2
AMPELISCA AGASSIZI	1
TELLINA AGILIS	5
DRILONEREIS LONGA	14
PARAONIS LYRA	2
HEMIPODUS ARMATUS	13
PRIONOSPID MALMGRENI	1
THARYX ACUTUS	543

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	006	6		C1	4034 N	7338 W	19.1
NO. SPECIES	13	NO. INDIVIDUALS	256	DIVERSITY	1.3911	EQUITABILITY	0.5423	

SPECIES LISTING	COUNT
GLYCERA DIBRANCHIATA	1
SIGALON ARENICOLA	1
PARAONIS LYRA	26
THARYX ACUTUS	57
ARICIDEA JEFFREYSII	1
PROTODRILUS SYMBIOTICUS	41
PARAPIONOSYLLIS LONGICIRRATA	1
NEOMYSIS AMERICANA	5
TELLINA AGILIS	1
HEMIPODUS ARMATUS	157
ASTARTE CASTANEA	1
NEPHTYS BUCERA	3
ASTERIAS FORBESII	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	006	6		C2	4034 N	7338 W	19.1
NO. SPECIES	16	NO. INDIVIDUALS	110	DIVERSITY	1.9412	EQUITABILITY	0.7001	

SPECIES LISTING	COUNT
THARYX ACUTUS	35
UNCIOLA IRROCRATA	1
ARICIDEA JEFFREYSII	1
CANCER IRROCRATUS	2
ASTERIAS FORBESII	3
PAGURUS LONGICARPUS	2
PROTODRILUS SYMBIOTICUS	7
EXOZONE HERES	1
NEOMYSIS AMERICANA	6
PARANAITIS KESTERIENSIS	1
NEMATODA	1
HEMIPODUS ARMATUS	26
STREBLOSPIC BENEDICTI	1
PARAONIS LYRA	21
DRILONERFIS LONGA	1
PELYDORA SP.	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	006	6	03	4034 N	7338 W	19.1
NO. SPECIES 13		NO. INDIVIDUALS 117		DIVERSITY 1.2864		EQUITABILITY 0.5015	

SPECIES LISTING	COUNT
NEPHTYS BUCERA	1
SPISSULA SOLIDISSIMA	3
SCOLELEPIS SQUAMATA	1
SPIOPHANES BOMBYX	2
OVALIPES OCELLATUS	1
LEPTOCUMA MINOR	1
CRANGON SEPTEMPINOSA	1
PISTONE REMOTA	1
NEOMYSIS AMERICANA	4
PARAHAUSTORIUS ATTENUATUS	29
TRICHOPOXUS EPISTOMUS	1
ECHINOTIDEA	2
TELLINA AGILIS	70

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	006	6	C4	4034 N	7338 W	19.1
NO. SPECIES 9		NO. INDIVIDUALS 702		DIVERSITY 1.0482		EQUITABILITY 0.4771	

SPECIES LISTING	COUNT
NASSARIUS TRIVITTATUS	1
ASTERIAS FORBESII	1
PROTODRILUS SYMBIOTICUS	63
PARAONIS LYRA	35
HEMIPODUS ARMATUS	102
DRILONEREIS LONGA	2
THARYX ACUTUS	485
OLIGOCHAETA	15
CANCER IRRORATUS	4

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	007	007	7	C1	4031 N	7338 W	29.8

NO. SPECIES 17 NO. INDIVIDUALS 1026 DIVERSITY 1.5898 EQUITABILITY 0.561

SPECIES LISTING	COUNT
ASTARTE CASTANEA	8
UNCIOLO IRRORATA	16
LEPTOCHELIA SAVIGNYI	7
CANCER IRRORATUS	1
COPEPODA	57
THARYX ACUTUS	528
POLYDORA CAULLERYI	197
PHOLOE MINUTA	1
GAMMARUS ANNULATUS	1
LUMBRINERIS FRAGILIS	5
HEMIPODUS ARMATUS	85
HARMOTHOE EXTENUATA	10
PISIOE REMOTA	1
RHYNCHOCELA	1
PARAPIONOSYLLIS LONGICIRRATA	72
ARICIDEA JEFFREYSII	28
PARAONIS FULGENS	8

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	008	8		C1	4031 N	7340 W	32.5
NO. SPECIES	9	NO. INDIVIDUALS	87	DIVERSITY	0.9708	EQUITABILITY	0.441	

SPECIES LISTING	COUNT
NEPHTYS BUCERA	4
CRANGON SEPTEMSPINOSA	1
TELLINA AGILIS	6
CANCER IRRORATUS	3
LUMBRINERIS FRAGILIS	1
AMPHARETE ARCTICA	2
ASTARTE CASTANEA	67
LEPTOCUMA MINOR	1
PROTODRILUS SYMBIOTICUS	2

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	008	8		C2	4031 N	7340 W	32.5
NO. SPECIES	9	NO. INDIVIDUALS	37	DIVERSITY	1.7124	EQUITABILITY	0.779	

SPECIES LISTING	COUNT
SIGALION APENICCLA	1
LUMBRINERIS FRAGILIS	1
TELLINA AGILIS	14
ASTARTE CASTANEA	9
PSEUDUNCICLA OBLIQUA	6
CANCER IRRORATUS	2
ACLADPHAMUS SP.	1
NEPHTYS BUCERA	2
ORBINIA SWANT	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	008	8		C3	4031 N	7340 W	32.5
NO. SPECIES	12	NO. INDIVIDUALS	51	DIVERSITY	1.5728	EQUITABILITY	0.632	

SPECIES LISTING	COUNT
LUMBRINERIS ACUTA	4
STHENELAIS LIMICOLA	1
ASTARTE CASTANEA	30
LUMBRINERIS FRAGILIS	1
NEPHTYS BUCERA	3
VENERICARDIA ROEFALIS	1
CANCER IRRORATUS	2
LEPTOCUMA MINOR	1
ASABELLIDES OCELLATA	1
AMPHARETE ARCTICA	1
TELLINA AGILIS	5
NATICA PUSILLA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	008	8	8	C4	4031 N	7340 W	32.5
NO. SPECIES 10		NO. INDIVIDUALS		34	DIVERSITY 1.9202		EQUITABILITY 0.833	

SPECIES LISTING	COUNT
AGLADOPHAMIS SP.	1
TRICHOPOXUS EPISTOMUS	1
PROTODRILUS SYMBIOTICUS	1
CANCER IRRORATUS	2
SCOLELAPIS SQUAMATA	1
TELLINA AGILIS	6
PSEUDONICOLA OBLIQUA	5
POLYCIRRUS PHOSPHOREUS	1
ASTARTE CASTANEA	11
HEMIPODUS ARMATUS	5

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	03/08/73	009 9	C1	4021 N	7342 W	34.3	
NO. SPECIES	17	NO. INDIVIDUALS	207	DIVERSITY	1.2981	EQUITABILITY	0.458

SPECIES LISTING	COUNT
NEPHTYS PICTA	6
NUCULA PROXIMA	1
CANCER TERRORATUS	5
SPIC FILICORNIS	1
THARYX ACUTUS	12
DRILONEREIS LONGA	1
NEOMYSIS AMERICANA	9
HAPLOSCHLOPUS ROBUSTUS	2
STHENELEIS LIMICOLA	5
SPIOPHANES BOMBYX	148
LEMBRINERIS FRAGILIS	2
ASABELLIDES OCELLATA	4
TELLINA AGILIS	5
GLYCERA CIERANCHIATA	2
SILIGUA COSTATA	1
TRICHOPODUS EPISTOMUS	1
CRANGON SEPTEMSPINOSA	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	010	10		C1	4021 N	7344 W	37.1
NO. SPECIES	17	NO. INDIVIDUALS	62			DIVERSITY 2.4447		EQUITABILITY 0.86

SPECIES LISTING	COUNT
RHYNCHOCOELE	2
LUMBRINERIS FRAGILIS	1
PRIONOSPION MALMGRENI	1
ENSIS DIRECTUS	2
TELLINA AGILIS	13
NUCULA PROXIMA	2
SPIGULA SOLIDISSIMA	1
PITAR MORRHUANA	1
NEPHTYS PICTA	3
GLYCERA SP.	3
GLYCERA DIBRANCHIATA	2
THARYX ACUTUS	8
STHENELAIS LIMICOLA	1
CRANGON SEPTEMSPINOSA	4
CANCER IRROCRATUS	7
ECOTEA TRILCBA	1
PROTODRILUS SYMBIOTICUS	10

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	010	10		02	4031 N	7344 W	37.1
NO. SPECIES	24	NO. INDIVIDUALS	86			DIVERSITY 2.7514		EQUITABILITY 0.86

SPECIES LISTING	COUNT
CANCER IRROCRATUS	12
PROTODRILUS SYMBIOTICUS	1
HETEROMYSTIS FORMOSA	1
ENSIS DIRECTUS	2
TELLINA AGILIS	6
PREFUSA AFFINIS	1
PAGURUS LONGICARPUS	1
SPIGULA SOLIDISSIMA	1
PERONIS ARCHITECTA	1
STHENELAIS LIMICOLA	2
PITAR MORRHUANA	2
GLYCERA DIBRANCHIATA	5
NUCULA PROXIMA	7
PRIONOSPION MALMGRENI	3
SPIGULA FILICORNIS	2
SPIOPHANES BOMBYX	9
GLYCERA SP.	5
AGLADPHAMUS CIRCINATA	1
SCOLELEPIS SQUAMATA	1
THARYX ACUTUS	15
DRILONEPES LONGA	1
ASABELLIDES OCULATA	2
NEPHTYS PICTA	4
LUMBRINERIS FRAGILIS	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	CRUISE	SYMAP	03	4031 N	7344 W	37.1
NO. SPECIES	21	NO. INDIVIDUALS	67	DIVERSITY	2.6648	EQUITABILITY	0.81

SPECIES LISTING	COUNT
NUCULA PROXIMA	15
PITAR MORRHUANA	2
ENSTIS DIRECTUS	2
PHERUSA AFFINIS	1
SPIOPHANES BOMBYX	2
LUMBRINERIS FRAGILIS	3
TELLINA AGILIS	6
YCLIDIA LIMATULA	3
NINICE NIGRIFES	8
DRILONERIS LONGA	1
NASSARIUS TRIVITTATUS	1
CRANGON SEPTEMSPINOSA	1
CANCER IRROCRATUS	5
GLYCERA DIERANCHIATA	1
ASAPPELLIDES OCELLATA	2
HAPLOSCHLOPLOS ROBUSTUS	1
STHENELEIS LIMICOLA	2
THARYX ACUTUS	4
THARYX MARCONI	1
AMPELLISCA VERRILLI	5
AMPEPETE ARCTICA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	03/09/73	010 10	C4	4021 N	7344 W	37.1	
NO. SPECIES	27	NO. INDIVIDUALS	94	DIVERSITY	2.8720	EQUITABILITY	0.8714

SPECIES LISTING	COUNT
SPIOPHANES EOMBYX	5
AMPHARETE ARCTICA	1
STHENELAIS LIMICOLA	1
CANCER IRRCRATUS	10
THARYX MARIONI	3
ARICIDEA JEFFREYSII	1
MEDYOMASTUS AMBISSETAE	1
THARYX ACUTUS	11
PRICNOSPIC MALMGRENI	1
GLYCERA SP.	2
CRANGON SEPTENSPINOSA	1
PHOTIS SP.	1
LUMBRINERIS TENUIS	1
NINCE NIGRIPES	10
DRILONERIS LONGA	6
YCIDIA LIMATULA	2
NUCULA PROXIMA	12
ENSIS DIRECTUS	2
MERCENARIA MERCENARIA	1
NASSARIUS TRIVITTATUS	1
AGLACPHAMUS CIRCINATA	1
PHEDUSA AFFINIS	4
GLYCERA DIBRANCHIATA	1
TELLINA AGILIS	7
AMPELISCA VERRILLI	5
ECOTEA TRILOBA	2
NEPHTYS PICTA	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	011	11	01	4031 N	7346 W	35.9
NO. SPECIES 15		NO. INDIVIDUALS		60	DIVERSITY 2.1787		EQUITABILITY 0.8045

SPECIES LISTING	CCUNT
CANCER IRRORATUS	1
NEOMYSIS AMERICANA	21
TELLINA AGILIS	3
LUMBRINERIS FRAGILIS	1
NEPHTYS PICTA	5
CRANGON SEPTEMPINOSA	2
PROTODRILUS SYMBIOTICUS	4
THARYX ACUTUS	2
NUCULA PROXIMA	2
ENSIS DIRECTUS	1
TURBONILLA STRICTA	1
PRICNOSPION MALMGRENI	2
GLYCERA SP.	4
GLYCERA DIBRANCHIATA	10
STHENELEIS LIMICOLA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	012	12		01	4031 N	7348 W	29.8
NO. SPECIES 27		NO. INDIVIDUALS 363		DIVERSITY 1.5370		EQUITABILITY 0.4		

SPECIES LISTING	COUNT
ARICIDEA JEFFREYSII	4
SPISULA SOLIDISSIMA	3
PITAR MORRHUANA	2
ASABELLIDES OCOLATA	4
LUNATIA HERCS	1
TELLINA AGILIS	4
GLYCERA DIPRANCHIATA	9
NUCULA PROXIMA	8
TRAVISTA CARNEA	1
GLYCERA SP.	7
CRANGON SEPTEMSPINOSA	3
RHYNCHOCOELA	2
UNCIOLA IRORATA	2
NASSARIUS TRIVITTATUS	2
PAGURUS LONGICARPUS	1
NEPTYS BUCERA	6
THARYX ACUTUS	3
SPIOPHANES BOMBYX	227
PRIONOSPION MALMGRENI	1
PHYLLODOCE ARENAE	1
HAPLOSCOLOPELUS ROBUSTUS	1
PROTODRILUS SYMPTOTICUS	3
OLIGOCHEATA	3
MEDIOMASTUS AMBISSETAE	3
LUMBRINERIS FRAGILIS	2
PELYDOPA LIGNI	4
AMPELISCA VERPILLI	46

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	03/08/73	012 12	02	4031 N	7348 W	29.8	
NO. SPECIES	16	NO. INDIVIDUALS	289	DIVERSITY	1.1514	EQUITABILITY	0.4

SPECIES LISTING	COUNT
TELLINA AGILIS	1
ASABELLIDES OCULATA	3
CRANGON SEPTENSPINOSA	9
AMPELISCA VERRILLI	47
GLYCERA CAPITATA	2
HAPLOSCOLOPLOS ROBUSTUS	1
SPISULA SOLIDISSIMA	6
PITAR MORRHUANA	1
AGLAPHAMUS CIRCINATA	1
DRILONEPES LONGA	2
NUCULA PROXIMA	2
GLYCERA DIBRANCHIATA	8
CANCER IRROBRATUS	1
SPIOPHANES BOMBYX	201
TEPHYX ACUTUS	1
NEPHTYS BUCERA	3

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	03/08/73	012 12	03	4031 N	7348 W	29.8	
NO. SPECIES	19	NO. INDIVIDUALS	259	DIVERSITY	1.2889	EQUITABILITY	0.4

SPECIES LISTING	COUNT
HAPLOSCOLOPLOS ROBUSTUS	2
SPISULA SOLIDISSIMA	7
SPIOPHANES BOMBYX	188
NEOMYSIS AMERICANA	2
GLYCERA DIBRANCHIATA	4
AGLAPHAMUS CIRCINATA	1
AMPELISCA MACROCEPHALA	10
LUMBRINERIS FRAGILIS	1
ARICIDEA QUADRILOBATA	3
TEPHYX ACUTUS	2
NEPHTYS BUCERA	8
ARICIDEA JEFFREYSII	1
ASABELLIDES OCULATA	1
PITAR MORRHUANA	1
TELLINA AGILIS	7
CANCER IRROBRATUS	2
NUCULA PROXIMA	10
GLYCERA CAPITATA	8
STRENEFLAIS LIMICOLA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	012	12		C4	4031 N	7348 W	29.8
NO. SPECIES	32	NO. INDIVIDUALS	192			DIVERSITY 2.0541		EQUITABILITY 0.5'

SPECIES LISTING	COUNT
PCLYDORA SP.	1
STEFANELAIS LIMICOLA	2
OLIGOCHAETA	1
HAPLOSCLOPLOS ROBUSTUS	3
ASABELLIDES OCULATA	24
PCLYDORA LIGHT	2
SPIOPHANES BOMBYX	102
GLYCERA SP.	1
GLYCERA DIBRANCHIATA	5
NEPHTYS PICTA	1
ARICIDEA JEFFREYSII	6
PITAR MORRHUANA	5
NERFIS GRAYI	1
PECTODRILUS SYMBIOTICUS	2
TRAPYX ACUTUS	1
AMPELISCA MACROCEPHALA	5
CANCER IPHORATUS	4
RHYNCHOCOELA	1
TRICHOPHOXUS FRISTOMUS	1
PFERUSA AFFINIS	2
NUCULA PROXIMA	5
EASTIS DIRECTUS	2
YOLDIA LIMATULA	1
UNCTOLA IPHORATA	1
NASSARIUS TRIVITTATUS	1
NIACE NIGRIPES	1
DRILONEREIS LONGA	1
LUMBRINERIS FRAGILIS	1
NEMATODA	2
AGLAOPHAMUS CIRCINATA	1
TELLINA AGILIS	4
CRANGON SEPTEMSPINOSA	2

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7201	03/08/73	013 13	01	4031 N	7350 W	24.3
NO. SPECIES 15		NO. INDIVIDUALS	154	DIVERSITY 1.4846	EQUITABILITY 0.548	

SPECIES LISTING	COUNT
GLYCERA SP.	4
SPISULA SOLIDISSIMA	1
CANCER IRRORATUS	1
TELLINA AGILIS	11
NEOMYSIS AMERICANA	11
ARICIDEA JEFFREYSII	10
ASABELLIDES OCULATA	1
NEPHTYS PICTA	12
SPICHPANES EOMBYX	95
PRIONOSPIO MALMGRENI	1
TRAVISIA CARNEA	1
ASTERIAS FORBESII	1
THARYX ACUTUS	1
NASSARIUS TRIVITTATUS	3
CRANGON SEPTEMPINOSA	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	014	14	01	4031 N	7352 W	20.6
NO. SPECIES 18		NO. INDIVIDUALS 162		DIVERSITY 1.5968		EQUITABILITY 0.55	

SPECIES LISTING	COUNT
ARICIDEA QUADRILOBATA	1
NEPHTYS BUCERA	12
CHIRIDOTEA TUFTSI	1
THARYX ANNULOSUS	2
LEPTOCUMA MINOR	1
GLYCERA DIBRANCHIATA	2
PROTODRILUS SYMBIOTICUS	1
ONUPHIS OPALINA	1
MAGELONA ROSEA	3
SPIOPHANES BOMBYX	18
TRICHOPOXUS EPISTOMUS	10
RYNCHOCOLA	2
ASABELLIDES OCULATA	2
NEOMYSIS AMERICANA	1
SPIGULA SOLIDISSIMA	1
TELLINA AGILIS	7
PROTCHAUSTORIUS DEICHMANNÆ	96
TRAVISIA CARNEA	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	014	14	02	4031 N	7352 W	20.6
NO. SPECIES 15		NO. INDIVIDUALS 116		DIVERSITY 1.7816		EQUITABILITY 0.61	

SPECIES LISTING	COUNT
NEOMYSIS AMERICANA	1
EMERITA TALPOTA	1
ENSIS DIRECTUS	1
ARICIDEA JEFFREYSII	2
SPIOPHANES BOMBYX	16
HAPLOSCHLOPIOS ROBUSTUS	1
TRICHOPOXUS EPISTOMUS	12
CRANGON SEPTEMSPINOSA	1
NEPHTYS BUCERA	13
ASABELLIDES OCULATA	1
SPIGULA SOLIDISSIMA	1
PROTCHAUSTORIUS WIGLEYI	55
TELLINA AGILIS	6
PROTODRILUS SYMBIOTICUS	3
MAGELONA ROSEA	2

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	014 14	03	4031 N	7352 W	20.6
NO. SPECIES 13		NO. INDIVIDUALS 118	DIVERSITY 1.4124	EQUITABILITY 0.5507		

SPECIES LISTING	COUNT
ASTERIAS FORBESII	1
NEPHTYS BUCERA	8
NEPHTYS PICTA	2
TELLINA AGILIS	7
MAGELONA ROSEA	1
ASABELLIDES OCULATA	3
REYNCHOCELA	1
EUCYTA TRILOBA	1
PROTOHAUSTORIUS DEICHMANNAE	72
ARICIDEA WASSI	2
SPIOPHANES COMBYX	18
PROTODRILUS SYMBIOTICUS	1
CRANGON SEPTEMSPINOSA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	014 14	04	4031 N	7352 W	20.6
NO. SPECIES 17		NO. INDIVIDUALS 219	DIVERSITY 2.2602	EQUITABILITY 0.7978		

SPECIES LISTING	COUNT
PHOTIS SP.	26
TELLINA AGILIS	10
TRICHOPOXUS PRISTOMUS	10
SPIOPHANES COMBYX	19
PROTODRILUS SYMBIOTICUS	9
ASTERIAS FORBESII	4
ORBINTA SWANI	4
MAGELONA ROSEA	5
PROTOHAUSTORIUS DEICHMANNAE	66
ASABELLIDES OCULATA	4
THARYX ACUTUS	2
NEPHTYS BUCERA	12
ARICIDEA JEFFREYSII	3
NEPHTYS PICTA	5
GAMMARUS ANNULATUS	37
REYNCHOCELA	2
CANCER IRRORATUS	1

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STATION NUMBER	CRUISE	SYMAB	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
015	015	15	C1	4031 N	7354 W	17.6

SPECIES 8 NO. INDIVIDUALS 20 DIVERSITY 1.8344 EQUITABILITY 0.8921

SPECIES LISTING	COUNT
TELINA AGILIS	4
ASTERIAS FORBESII	1
SPIOPHANES BOMBYX	1
SPISULA SOLIDISSIMA	6
CANCER IRROCRATUS	1
PROTOHAUSTORIUS DEICHMANNAE	2
MAGELONA ROSEA	1
NEPHTYS PICTA	4

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	016	16	01	4031 N	7356 W	16.0
NO. SPECIES	11	NO. INDIVIDUALS		83	DIVERSITY	1.6747	EQUITABILITY 0.698

SPECIES LISTING	COUNT
TRICHOPOXUS EPISTOMUS	1
MAGELONA ROSEA	1
OVALIPES OCELLATUS	4
CONAX FOSSOR	1
PARAHAUSTORIUS HOLMEST	6
PROTOHAUSTORIUS WIGLEYI	25
SPIOPHANES BOMBIX	1
SPISULA SOLIDISSIMA	29
ECHINOIDEA	1
TELLINA AGILIS	13
LUNATIA HEROS	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	016	16	02	4031 N	7356 W	16.0
NO. SPECIES	8	NO. INDIVIDUALS		24	DIVERSITY	1.7482	EQUITABILITY 0.840

SPECIES LISTING	COUNT
NEPHTYS BUCERA	1
OVALIPES OCELLATUS	1
SCOLELEPIS SQUAMATA	1
SPISULA SOLIDISSIMA	6
PROTOHAUSTORIUS WIGLEYI	8
LEPTOCHELIA SAVIGNYI	1
TELLINA AGILIS	2
PARAHAUSTORIUS ATTENUATUS	4

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	016	16	03	4031 N	7356 W	16.0
NO. SPECIES	6	NO. INDIVIDUALS		17	DIVERSITY	1.5485	EQUITABILITY 0.864

SPECIES LISTING	COUNT
SPISULA SOLIDISSIMA	6
SYNCHELIDTIUM AMERICANUM	1
PARAHAUSTORIUS ATTENUATUS	1
SPIOPHANES BOMBIX	1
TELLINA AGILIS	4
PROTOHAUSTORIUS WIGLEYI	4

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	016	016	16	04	4031 N	7356 W	16.0
NO. SPECIES	13	NO. INDIVIDUALS	63	DIVERSITY	2.0996	EQUITABILITY		

SPECIES LISTING	COUNT
PROTOHAUSTORIUS DEICHMANNAE	3
SPISULA SOLIDISSIMA	6
PROTOHAUSTORIUS WIGLEYI	21
ECHINODFA	2
TELLINA AGILIS	10
ACANTHOHAUSTORIUS MILLSI	7
CHRIDOTEA TUFTSI	1
PARAPHOXUS SPINOSUS	1
TRICHOPOXUS EPISTOMUS	5
OVALTRES OCELLATUS	1
MAGELONA ROSEA	2
NEPHTYS BUCERA	3
LEPTOCHELIA SAVIGNYI	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	017	19		C1	4028 N	7356 W	20.3
NO. SPECIES 18		NO. INDIVIDUALS 218		DIVERSITY 1.3629		EQUITABILITY 0.47		

SPECIES LISTING	COUNT
NASSARIUS TRIVITTATUS	1
ETEONE LACTEA	1
ENASIS DIRECTUS	4
CANCER IRPCRATUS	1
NECMYSIS AMERICANA	7
ECOTEA TRILCBA	1
TRICHOPOXUS EPISTOMUS	2
NEPHTYS PICTA	24
SPIOPHANES COMBYX	145
PHYLLODOCE ARENAE	1
CRANGON SEPTEMSPINOSA	1
NUCULA PROXIMA	2
PERUSA AFFINIS	3
CLYMENELLA TORQUATA	1
SPISSULA SOLIDISSIMA	14
AGLAPHAMUS CIRCINATA	1
GLYCERA DIPRANCHIATA	1
TELLINA AGILIS	8

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	018	20	C1	4028 N	7354 W	29.5
NO. SPECIES 21		NO. INDIVIDUALS		57	DIVERSITY 2.2779		EQUITABILITY 0.7

SPECIES LISTING	COUNT
NUCULA PROXIMA	1
GLYCERA DIERANCHIATA	1
RHYNCHOCOLA	1
NEPHTYS BUCERA	9
ASABELLIDES OCULATA	1
THARYX ACUTUS	1
CAUPHIS OPALINA	1
ECHINARACHNIUS PARMA	1
HAPLOSCOLOPLOS ROBUSTUS	1
SPIOPHANES BOMPYX	24
CANCER IPPORATUS	3
TRAVISIA CARNEA	1
SPIGULA SOLIDISSIMA	1
ENSIS DIRECTUS	2
TELLINA AGILIS	14
NASSARIUS TRIVITTATUS	1
OSTRACODA	1
TRICHOPOXUS FRISTOMUS	14
CRANGON SEPTEMSPINOSA	1
ECCETA TRILOBA	1
PROTOHAUSTORIUS DEICHMANNI	17

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	03/08/73	018	20		C2	4028 N	7354 W	29.5
NO. SPECIES	24	NO. INDIVIDUALS	203	DIVERSITY	2.3769	EQUITABILITY	0.747	

SPECIES LISTING	COUNT
SPIC FILICORNIS	1
PROTODRILUS SYMBIOTICUS	1
CANCER IRRORATUS	30
ENSIS DIRECTUS	1
TELLINA AGILIS	38
TRICHOPOXUS EPISTOMUS	9
PHORONIS ARCHITECTA	2
CERTANTHUS AMERICANUS	1
NEPHTYS PICTA	1
COROPHIUM BENELLI	1
SPIOPHANES BOMBYX	47
PHYNCHOCCELA	2
NEPHTYS BUCERA	15
MAGELONA ROSEA	1
CRANGON SEPTEMSPINOSA	5
TEPHYX ACUTUS	14
PROTOKHAUSTORIUS WIGLEYI	5
NUCULA PROXIMA	1
ARICIDEA JEFFREYSII	8
ASTERIAS FORBESII	2
GLYCERA DIBRANCHIATA	1
PRIONOSPIC MALMCRENI	1
POLYDORA LIGHT	15
GLYCERA CAPITATA	1

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CRUISE	DATE	STATION NUMBER	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	03/08/73	018	20	C3	4028 N	7354 W	29.5
NO. SPECIES 20		NO. INDIVIDUALS 226		DIVERSITY 2.1499		EQUITABILITY 0.7176	

SPECIES LISTING	COUNT
ARICIDEA JEFFREYSII	3
SPIOPHANES BOMBYX	26
ECCTEA TRILCBA	4
PROTCHAUSTORIUS WIGLEYI	10
REYNOCOEFLA	1
THARYX ACUTUS	2
ASTERIAS FORBESII	5
TELLINA AGILIS	39
ACANTHCHAUSTORIUS MILLSI	3
SIGALION ARENICOLA	1
NEPHTYS PICTA	3
POLYDORA LIGNI	1
TRICHOPOXUS EPISTOMUS	11
PSEUDUNCICLA OBLIQUA	76
CANCER IRRORATUS	11
CERIANTHUS AMERICANUS	2
CRANGON SEPTEMSPINOSA	13
LUMBRINERIS FRAGILIS	2
STHENELAIS LIMICOLA	1
NEPHTYS BUCERA	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	019	019	21	C1	4028 N	7352 W	34.0
NO. SPECIES 23		NO. INDIVIDUALS 348		DIVERSITY 1.2914		EQUITABILITY 0.4115		

SPECIES LISTING	COUNT
NINOE NIGRIPES	1
YOLCIA LIMATULA	3
NEPHTYS BUCERA	3
TELLINA AGILIS	3
SPICOPHANES BOMBYX	238
LUNATIA HERCS	1
UNIC BIVALVE #2	1
SPISULA SOLIDISSIMA	1
CANCER IPPOCRATUS	4
STHENELEIS LIMICOLA	3
REYNCHOCCELA	1
CERIANTHUS AMERICANUS	1
THARYX ACUTUS	8
NEOMYSIS AMERICANA	1
PHYLLODOCE ARENAE	4
LUMBRINERIS TENUIS	2
GLYCERA CIBRANCHIATA	6
TRICHOPOXUS EPISTOMUS	1
CRANGON SEPTENSPINOSA	4
NUCULA PROXIMA	54
PITAR MORRHUANA	6
UNCIOLA IPPORATA	1
PSEUDUNCIOLA OBLIQUA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7371	04/08/73	020	22		01	4028 N	7350 W	40.1
NO. SPECIES	30	NO. INDIVIDUALS	472	DIVERSITY	1.9084	EQUITABILITY	0.561	

SPECIES LISTING	CCUAT
ACLAOPHAMUS SP.	1
PCTAMILLA RENIFORMIS	1
PITAR MORRHUANA	4
LUMBRINERIS FRAGILIS	17
CRANGON SEPTEMSPINOSA	5
GLYCERA CIBRANCHIATA	8
NEPHTYS INCISA	3
ARTICIDEA JEFFREYSII	1
SPIOPHANES EOMPYX	225
CERTANTHUS AMERICANUS	4
GLYCERA SP.	1
NICOLEA VENUSTULA	1
AMPHARETE ARCTICA	1
RHYNCHOCOELE	1
CERASTODERMA PINNULATUM	2
NICOLA PROXIMA	23
TELLINA AGILIS	2
PRIONOSPION Malmgreni	101
PHOPONIS ARCHITECTA	2
SPIC FILICORNIS	6
STHENELEAIS LIMICOLA	1
CANCER TRPORATUS	4
UNCIOLEA TRPORATA	1
PHERUSA AFFINIS	9
THARYX MARIGNI	10
DRILONEREIS LONGA	5
ASABELLIDES OCULATA	1
NINICE NIGRIPES	25
LUMBRINERIS TENUIS	5
POLYDORA LIGHT	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	020	22		C2	4028 N	7350 W	40.1

AC. SPECIES 42 NO. INDIVIDUALS 619 DIVERSITY 2.2490 EQUITABILITY 0.601

SPECIES LISTING	COUNT
SPIOPHANES COMBYX	152
DRILONERFIS LONGA	3
AMPHARETE ARCTICA	2
PAGURUS LONGICARPUS	2
THARYX ACUTUS	12
PITAR MORRHUANA	2
PHORONIS ARCHITECTA	4
LUMBRINERIS TENUIS	20
TELLINA AGILIS	7
TAUTOGALABRUS ADSPERUS	1
MEDICMASTUS AMBISSETAE	23
ETECNE LONGA	2
CERTANTHUS AMERICANUS	4
SPIC FILICORNIS	10
GLYCERA DIBRANCHIATA	5
PHERUSA AFFINIS	9
POLYDORA LIGNI	2
PEXOCEPHALUS HOLBOELLI	1
AGLAOPHAMIUS CIRCINATA	1
CERASTODERMA PINNULATUM	3
ARICIDEA JEFFREYSII	3
UNCIOLA IRROCRATA	1
NUCULA PROXIMA	129
HYDRORITA MINUTA	2
NASSARIUS TRIVITTATUS	2
NEREIS GRAYI	1
PHYLLODOCE ARENAE	3
RHYNCHOCCELA	1
SCALIBREGMA INFLATUM	1
SCOLELEPIS SQUAMATA	1
NINOE NIGRIPES	11
CANCER IRROCRATUS	9
CRANGON SEPTEMSPINOSA	4
OSTRACODA	3
POLYCIRRUS SP.	1
HARMOTHOE EXTENUATA	1
GLYCERA SP.	3
PRIONOSPITO MALMGRENI	169
PROTODRIIUS SYMBIOTICUS	1
CIRRATULUS CIRRATUS	1
THARYX MARIONI	6
PCTAMILLA NEGLECTA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	020	22	03	4028 N	7350 W	40.1	
NO. SPECIES	28	NO. INDIVIDUALS	700	DIVERSITY	1.7882	EQUITABILITY	0.536	

SPECIES LISTING	COUNT
UNIO BIVALVE #2	1
NUCULA PROXIMA	133
NINOE NIGRIPES	4
OSTRACODA	1
UNCIOLA TRICRATA	5
SPIO FILICORNIS	77
POTAMILLA NEGLECTA	1
SPIOPHANES BOMBYX	298
GLYCERA SP.	9
PRIONOSPION STEENSTRUPI	107
POLYDORA LIGNI	2
ETEONE LONGA	1
CRANGON SEPTEMSPINOSA	7
CERASTODERMA PINNULATUM	2
LUMBRINERIS TENUIS	24
THARYX ACUTUS	3
ENSIS DIRECTUS	2
LUMBRINERIS FRAGILIS	5
PITAR MORRHUANA	1
PARACNIS GRACILIS	1
DRILONERIS LONGA	3
STENELLAIS LIMICOLA	1
PAGURUS LONGICARPUS	1
PHERUSA AFFINIS	3
AGLADPHAMUS CIRCINATA	1
CANCER ERRORATUS	3
CER IANTHUS AMERICANUS	2
REYNHOCOELE	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	021	23		C1	4028 N	7348 W	46.5

NO. SPECIES 32 NO. INDIVIDUALS 2175 DIVERSITY 1.5906 EQUITABILITY 0.4590

SPECIES LISTING	COUNT
UNIO BIVALVE #2	8
NEPHTYS INCISA	42
PHERUSA AFFINIS	74
NEMATODA	5
THARYX ACUTUS	1253
PITAR MORRHUANA	14
MULINIA LATERALIS	1
ETEONE LONGA	3
SPIOPHANES BOMBYX	2
CESSURA LONGICIRRATA	19
PRICNOSPID MALMGRENI	19
PARAONIS GRACILIS	2
ARTICIDEA JEFFREYSII	2
DRILONERFIS LONGA	2
LUMBRINERIS TENUIS	7
EDWARDIA SP.	2
CERTANTHUS AMERICANUS	57
HARTMANIA MCCREI	2
POTAMILLA NEGLECTA	15
CERASTODERMA PINNULATUM	6
RHYNCHOCCELA	2
YOLCIA LIMATULA	3
NUCULA PROXIMA	304
NASSAPIUS TRIVITTATUS	1
OVALIPES OCELLATUS	1
MEDIDMASTUS AMBISSETAE	255
THARYX MARIONI	12
POLYDORA LIGNI	4
PHORONIS ARCHITECTA	31
LUMBRINERIS FRAGILIS	16
TELLINA AGILIS	6
NINDE NIGRIPES	5

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CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	CRUISE 022 SYMAP 24	CI	4028 N	7346 W	46.5
NO. SPECIES 31		NO. INDIVIDUALS 1874		DIVERSITY 1.6369		EQUITABILITY 0.4767

SPECIES LISTING	COUNT
HYDROBIA MINUTA	5
MEDIOMASTUS AMBISETAE	436
ARICIDEA JEFFREYSII	2
POTAMILLA RENIFORMIS	1
LUNATIA HERCS	1
PHORONIS ARCHITECTA	14
DECAPOD	1
ASABELLIDES OCULATA	2
PARONIS GRACILIS	4
EYECNE LONGA	1
NEPHTYS INCISA	23
NUCULA PROXIMA	222
TELLINA AGILIS	25
UNITO BIVALVE #2	9
NINOE NIGRIPES	11
EDWARDSIA SP.	2
CESSUPA LONGOCIRRATA	4
PITAR MORRHUANA	11
CERIANTHUS AMERICANUS	42
RHYNCHOCOELE	6
POTAMILLA NEGLECTA	16
SPIOPHANES EOMPYX	10
THARYX ACUTUS	928
PERUSA AFFINIS	48
LUMBRINERIS TENUIS	2
DRILONEREIS LONGA	3
STHENELEIS LIMICOLA	1
HARMOTHOE IMBRICATA	1
POTAMILLA NEGLECTA	1
PRIONOSPIO MALINGRENT	18
NEMATODA	14

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	022	24	02	4028 N	7346 W	46.5	

NO. SPECIES 28 NO. INDIVIDUALS 852 DIVERSITY 1.9153 EQUITABILITY 0.574

SPECIES LISTING	COUNT
MEDICOMASTUS AMBISSETAE	34
LUMBRINERIS TENUIS	1
NEPHTYS INCISA	35
AEGININA LONGICORNIS	79
EDWARDIA SP.	1
CERIANTHUS AMERICANUS	27
PHERUSA AFFINIS	23
SPIOPHANES BOMBIX	1
UNID BIVALVE #2	2
PHORONIS ARCHITECTA	28
NUCULA PROXIMA	140
YCLDIA LIMATULA	2
EDDTEA TRILCBA	1
PRIONOSPID MALMGRENT	9
CESSURA LONGICIRRATA	1
FTEONE LONGA	1
NINCE NIGRIPES	6
ASABELLIDES COULATA	1
SPIO FILICORNIS	1
TELLINA AGILIS	1
NASSARTUS TRIVITTATUS	2
CANCER IPPORATUS	11
THARYX MARICNT	22
HYCROBIA MINUTA	5
ENSTIS DIRECTUS	1
PITAR MORRHUANA	2
POTAMILLA NEGLECTA	1
THARYX ACUTUS	394

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CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	CRUISE 022 SYMAP 24	C3	4028 N	7346 W	46.5

NO. SPECIES 25 NO. INDIVIDUALS 755 DIVERSITY 1.5287 EQUITABILITY 0.47

SPECIES LISTING	COUNT
DRILONEREIS LONGA	2
CESSURA LONGICIRRATA	1
LUMBRINERIS TENUIS	2
NUCULA PROXIMA	85
POTAMILLA NEGLECTA	1
STHENELEIS LIMICOLA	1
ASABELLIDES OCULATA	1
PITAR MORRHUANA	3
NEPHTYS INCISA	29
NEREIS GRAYI	1
RHYNCHOCYCLA	3
PHERUSA AFFINIS	25
CERIANTHUS AMERICANUS	27
PRIONOSPION MALMGRENI	6
DECAPOD	1
CANCER IRPOCRATUS	10
HYDROBIA MINUTA	3
NINOE NIGRIPES	8
SPIOPHANES BOMBYX	1
MEDICMASTUS AMBISSETAE	63
THARYX MARIANI	24
THARYX ACUTUS	464
CERASTODERMA PUNCTULATUM	2
MERCENARIA MERCENARIA	1
TELLINA AGILIS	5

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	022	24	C4	4028 N	7346 W	46.5
NO. SPECIES 19		NO. INDIVIDUALS 603		DIVERSITY 1.7510		EQUITABILITY 0.5947	

SPECIES LISTING	COUNT
CANCER IRRORATUS	5
DECAPOD	1
NUCULA PROXIMA	238
THARYX MARIONI	15
LUMBRINERIS FRAGILIS	1
PITAR MORRHUANA	2
ASABELLIDES OCULATA	1
PERUSA AFFINIS	20
NEPHTYS INCISA	16
CERIANTHUS AMERICANUS	30
NINOE NIGRIPES	9
PARADONIS GRACILIS	1
ETEONE LONGA	1
DRILONEREIS LONGA	4
LUMBRINERIS TENUIS	1
THARYX ACUTUS	181
MEDIOMASTUS AMBISSETAE	52
PCTANILLA NEGLECTA	4
PHORONIS ARCHITECTA	11

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	023	25	C1	4029 N	7344 W	46.2
NO. SPECIES 12		NO. INDIVIDUALS 160		DIVERSITY 1.9313		EQUITABILITY 0.777	

SPECIES LISTING	COUNT
CERASTODERMA PINNULATUM	2
NEPHTYS INCISA	24
PERUSA AFFINIS	16
DRILONERETS LONGA	4
NINDE NIGRIPES	4
THARYX ACUTUS	64
CANCER IRROBRATUS	9
NUCULA PROXIMA	15
TELLINA AGILIS	2
CERIANTHUS AMERICANUS	12
PITAR MORRHUANA	6
UNID BIVALVE #2	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	023	25	02	4028 N	7344 W	46.2	

C. SPECIES 35 NO. INDIVIDUALS 582 DIVERSITY 2.3645 EQUITABILITY 0.6651

SPECIES LISTING	COUNT
SPIC FILICORNIS	2
PRIONOSPID MALMGRENI	11
PCTAMILLA NEGLECTA	3
ETECNE LONGA	1
SPIOPHANES BOMBYX	4
NEMATODA	9
HARMOTHOE EXTENUATA	2
THARYX ACUTUS	238
UNIO BIVALVE #2	11
NINOE NIGRIPES	4
DRILONEREIS LONGA	8
UNCIOLA IRRCRATA	1
CANCER IRROBRATUS	13
PARADONIS GRACILIS	1
OLIGOCHAETA	3
CAPITELLA CAPITATA	1
PAGURUS LONGICARPUS	1
TAUTOGALARPUS ADSPERUS	1
MEDIOMASTUS AMBISSETAE	47
PHERUSA AFFINIS	51
CERTANTHUS AMERICANUS	33
NEPHTYS INCISA	19
RYNCHOCOELA	20
LUMBRINERIS TENUIS	1
STHENELAIS LIMICOLA	2
YOLCIA LIMATULA	1
NUCULA PROXIMA	42
HYDROBIA MINUTA	15
ASABELLIDES OCULATA	1
TELLINA AGILIS	10
CERASTODERMA PINNULATUM	6
ECOTEA TRILOBIA	1
PITAR MORRHUANA	12
NASSARIUS TRIVITTATUS	4
PHORONIS ARCHITECTA	3

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	023 25	04	4028 N	7344 W	46.2

C. SPECIES 35 NO. INDIVIDUALS 1413 DIVERSITY 2.3920 EQUITABILITY 0.6700

SPECIES LISTING	COUNT
NUCULA PROXIMA	136
NEPHTYS INCISA	95
NINOE NIGRIPES	19
SPICOPHANES EOMPYX	8
PRIONOSPION STEENSTRUPI	25
UNIO BIVALVE #2	21
PITAR MORRHUANA	52
PHORONIS ARCHITECTA	66
EDWARDSIA SIPUNCULOIDES	3
PANDORA GOULDIANA	1
NEMATODA	12
RHYNCHOCOELA	15
HYDROBIA MINUTA	9
POTAMILLA NEGLECTA	1
SPICIFILICORNIS	4
NASSARIUS TRIVITTATUS	7
STRENEFLATS LIMICOLA	1
PELYDORA LIGNI	1
TRAPYX ACUTUS	464
TELLINA AGILIS	19
YOLDIA LIMATULA	7
MEDIOMASTUS AMBRISETAE	179
CAPITELLA CAPITATA	4
ASABELLIDES OCULATA	3
PHERUSA AFFINIS	126
CLIGOCHAETA	2
CERTANTHUS AMERICANUS	69
HARMOTHOE IMBRICATA	2
EDDIEA TRILOBA	3
CRANGON SEPTEMSPINOSA	1
PALAEMONETES INTERMEDIUS	1
CANCER IRROCRATUS	13
OPILONEIREIS LONGA	7
ETEONE LONGA	6
ARTICIDEA JEFFREYSII	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
301	04/08/73	024	26		01	4028 N	7342 W	41.6
SPECIES 17		NO. INDIVIDUALS	188	DIVERSITY	1.2262	EQUITABILITY	0.4328	

SPECIES LISTING	COUNT
THARYX ACUTUS	5
SPIG FILICORNIS	6
GLYCERA DIBRANCHIATA	6
CRANGON SEPTEMSPINOSA	3
SPIOPHANES BOMBYX	139
DRILONERFIS LONGA	1
NINDE NIGRIPES	5
PTILANTHURA TRICARINA	1
TRAVISTIA CARNEA	1
CANCER IRROPATUS	2
LUMBRINERIS FRAGILIS	7
RHYNCHOCOELA	2
ASABELLIDES OCULATA	1
STHENELEIS LIMICOLA	1
ECOTEA TRILOBIA	1
PITAR MORRHUANA	1
NUCULA PROXIMA	6

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
301	04/08/73	024	26		02	4028 N	7342 W	41.6
SPECIES 17		NO. INDIVIDUALS	45	DIVERSITY	2.6091	EQUITABILITY	0.9209	

SPECIES LISTING	COUNT
GLYCERA CAPITATA	1
NINDE NIGRIPES	1
RHYNCHOCOELA	1
STHENELEIS LIMICOLA	1
GLYCERA DIBRANCHIATA	6
DRILONERFIS LONGA	5
LUMBRINERIS FRAGILIS	5
SPIOPHANES BOMBYX	2
THARYX ACUTUS	6
ASABELLIDES OCULATA	1
NUCULA PROXIMA	4
ECOTEA TRILOBIA	2
AMPELISCA VERRILLI	1
PITAR MORRHUANA	1
CANCER IRROPATUS	3
CRANGON SEPTEMSPINOSA	2
SPISULA SOLIDISSIMA	2

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
		CRUISE	SYMAP				
7301	04/08/73	024	26	C3	4028 N	7342 W	41.6
AC. SPECIES 12		NO. INDIVIDUALS		74	DIVERSITY 1.5020		EQUITABILITY 0.6045

SPECIES LISTING	COUNT
AMPELISCA VERRILLI	1
NASSARIUS TRIVITTATUS	2
SPIOPHANES BOMBYX	16
NEPHTYS BUCERA	1
RHYNCHOCOLA	1
THARYX ACUTUS	40
DRILONERETS LONGA	1
NINOE NIGRIPES	1
GLYCERA DIBRANCHIATA	6
LUMBRINERIS FRAGILIS	1
STHENELAIS LIMICOLA	3
FASTI DIRECTUS	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
		CRUISE	SYMAP				
7301	04/08/73	024	26	04	4028 N	7342 W	41.6
AC. SPECIES 13		NO. INDIVIDUALS		255	DIVERSITY 0.7292		EQUITABILITY 0.2843

SPECIES LISTING	COUNT
CRANGON SEPTEMSPINOSA	1
DRILONERETS LONGA	2
TRAVISTA CARNEA	2
GLYCERA DIBRANCHIATA	10
ASABELLIDES OCULATA	2
NOTOCIRRUS SPINIFERUS	1
STHENELAIS LIMICOLA	2
LUMBRINERIS FRAGILIS	2
SPIOPHANES BOMBYX	255
THARYX ACUTUS	12
CER IANTHUS AMERICANUS	1
RHYNCHOCOLA	5
CANCER IRROCRATUS	4

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	CRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	025	27	01	4028 N	7340 W	39.5	
C. SPECIES 26		NO. INDIVIDUALS	178	DIVERSITY	2.2846	EQUITABILITY	0.7012	

SPECIES LISTING	COUNT
CANCER IRRORATUS	5
PSEUDONICOLA OBLIQUA	71
TELLINA AGILIS	10
CERTANTHUS AMERICANUS	2
RHYNCHOCOLA	2
LUMBRINERIS ACUTA	1
EXOGONE HERES	1
LEPTOCHELLIA SAVIGNYI	11
HIPPOMEDON SERRATUS	1
THARYX ACUTUS	1
ASABELLIDES OCULATA	3
LUNATIA HERES	1
CRENELLA GLANDULA	1
ECHINARACHNIUS PARMA	1
PHYLLODOCE ARENAE	2
TRAVISIA CARNEA	1
SPICOPHANES POMPYX	15
PROTODRILUS SYMBIOTICUS	22
SCOLELEPIS SQUAMATA	6
PARADNIS LYRA	1
PARAPIGOSYLLIS LONGICIRPATA	3
SPISULA SOLIDISSIMA	1
ASTARTE CASTANEA	8
STAURONERIS CAECUS	1
NEPHTYS PICTA	3
HEMIPODUS ARMATUS	4

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	026	28	01	4028 N	7338 W	38.0
C. SPECIES 12		NO. INDIVIDUALS		21	DIVERSITY 2.2436		EQUITABILITY 0.9029

SPECIES LISTING	COUNT
LLUMBRINERIS ACUTA	1
ENSIS DIRECTUS	1
THARYX MARICNI	2
MEDICMASTUS AMRISSETAE	1
HEMIPODUS ARMATUS	1
LEPTOCHELIA SAVIGNYI	1
NEPHTYS BUCERA	2
TELLINA AGILIS	6
SCOPHTALMUS AQUOSUS	1
CANCER IRROCRATUS	3
ASTARTE CASTANEA	1
RHYNCHOCCELA	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	026	28	02	4028 N	7338 W	38.0
C. SPECIES 15		NO. INDIVIDUALS		57	DIVERSITY 2.2024		EQUITABILITY 0.8133

SPECIES LISTING	COUNT
ASTARTE UNDATA	1
ASTARTE CASTANEA	9
NEPHTYS BUCERA	4
PSEUDUNCICLA OPLIOQUA	6
GLYCERA TIBRANCHIATA	1
STEFANELAIS LIMICOLA	1
SIGALION ARENICOLA	1
RHYNCHOCCELA	2
PANDORA GOULDIANA	1
ECHINARACHNIUS PARMA	6
TELLINA AGILIS	18
NUCULA PROXIMA	1
PROTOHAUSTORIUS WIGLEYI	2
CANCER IRROCRATUS	3
HETEROMASTUS FILIFORMIS	1

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	026 28	C4	4028 N	7338 W	38.0
NO. SPECIES 23		NO. INDIVIDUALS	94	DIVERSITY 2.2406	EQUITABILITY 0.714	

SPECIES LISTING	COUNT
RHYNCHOCOELA	3
SPIOPHANES COMPYX	3
NEPHTYS BUCERA	3
ASABELLIDES OCVLATA	1
LUMERINERIS FRAGILIS	1
ECHINARACHNIUS PARMA	3
HIFECMEDON SERRATUS	2
PROTOHAUSTORIUS WIGLEYI	2
ASTARTE CASTANEA	1
ENASIS DIRECTUS	1
TELLINA AGILIS	24
PSEUDUNCICLA OBLIQUA	33
THARYX MARICNI	2
STAURONEREIS CAECUS	1
PAGURUS LONGICARPUS	1
EDCTEA TRILCBA	1
PRIONOSPITO MALMGRENI	1
SIGALION ARENICCLA	2
CRANGON SEPTEMSPINOSA	1
TRICHOPOXUS EPISTOMUS	1
NASSARIUS TRIVITTATUS	2
CANCER IPPORATUS	2
CLIGCHAETA	3

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	027	29	C1	4025 N	7338 W	36.5
SPECIES 16		NO. INDIVIDUALS		165	DIVERSITY 1.2460		EQUITABILITY 0.4494

SPECIES LISTING	COUNT
THARYX ACUTUS	6
HEMIPODUS ARMATUS	1
LUMBRINERIS ACUTA	1
NEPHTYS PICTA	4
LUMBRINERIS FRAGILIS	1
ASTARTE CASTANEA	2
LLNATIA HERCS	1
NASSARIUS TRIVITTATUS	1
ECHINARACHNIUS PARMA	3
TELLINA AGILIS	9
RHYNCHOCELA	1
SIGALTON ARENICOLA	1
CRANGON SEPTENSPINOSA	4
CANCER IPPCRATUS	5
PSEUDUNCIOLA OBLIQUUA	5
SPIOPHANES BCMRYX	120

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
47301	04/08/73	028	30		C1	4025 N	7340 W	42.6	
NO. SPECIES	28	NO. INDIVIDUALS	119			DIVERSITY	2.6947	EQUITABILITY	0.808

SPECIES LISTING	COUNT
CRANGON SEPTemspINOSA	2
GLYCERA SP.	5
SFIC FILICORNIS	32
EXOgone HEBES	1
THARYX ACUTUS	22
DRILONERETS LONGA	3
ETEENE LONGA	1
HARMOTHOE EXTENUATA	1
PHERUSA AFFINIS	1
UNIC BIVALVE #2	2
CANCER IRROCRATUS	2
PRICNOSPID MALMGRENI	3
CERTANTHUS AMERICANUS	1
CLIGOCOAETA	3
LUMBRINERIS TENUIS	4
AGLAOPHAMUS CIRCINATA	1
NINOE NIGRIPES	3
NASSARIUS TRIVITTATUS	1
CARCINUS MAENUS	2
ASABELLIDES OCLLATA	1
STHENEFLAIS LIMICOLA	3
NUCULA PROXIMA	4
REYNCHOCOEFLA	4
LUMBRINERIS FRAGILIS	5
NEPHTYS BUCERA	1
GLYCERA DIERANCHIATA	4
ARICIDEA JEFFREYSII	4
PITAR MORREUANA	3

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	029 30	C2	4025 N	7340 W	42.6
NO. SPECIES 19		NO. INDIVIDUALS	121	DIVERSITY 2.3558		EQUITABILITY 0.80

SPECIES LISTING	COUNT
SPIO FILICORNIS	22
LUMBRINERIS TENUIS	3
NINCE NIGRIPES	2
ARICIDEA JEFFREYSII	4
GLYCERA DIBRANCHIATA	9
PRIONOSPION PALMGRENI	3
AGLAOPHAMUS CIRCINATA	1
RYNCHOCOELE	5
CLIGOCHEAETA	3
LUMBRINERIS FRAGILIS	2
STHENELAIS LIMICOLA	1
THARYX ACUTUS	26
NEMATODA	2
SPIOPHANES BOMBYX	25
NUCULA PROXIMA	3
CERASTODERMA PINNULATUM	1
PITAR MORRHUANA	3
TELLINA AGILIS	1
CANCER IPPORATUS	5

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	029 30	C3	4025 N	7340 W	42.6
NO. SPECIES 18		NO. INDIVIDUALS	122	DIVERSITY 2.3054		EQUITABILITY 0.79

SPECIES LISTING	COUNT
ASABELLIDES OCULATA	2
SPIOPHANES BOMBYX	32
MEDICMASTUS AMBISETAE	1
NINCE NIGRIPES	8
LUMBRINERIS FRAGILIS	3
GLYCERA DIBRANCHIATA	15
PHERUSA AFFINIS	1
ARICIDEA JEFFREYSII	2
UNID BIVALVE #2	1
CERASTODERMA PINNULATUM	1
NUCULA PROXIMA	3
UNCICLA IPPORATA	1
SPIO FILICORNIS	21
RYNCHOCOELE	8
THARYX ACUTUS	12
PHYLLODOCE ARENAE	1
NASSARIUS TRIVITTATUS	3
PITAR MORRHUANA	7

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
AT301	04/08/73	02B	3C	C4	4025 N	7340 W	42.6
NO. SPECIES 23		NO. INDIVIDUALS 145		DIVERSITY 2.4155		EQUITABILITY 0.7704	

SPECIES LISTING	COUNT
STENELATS LIMICOLA	1
SPIOPHANES BOMBYX	51
SPIC FILICEPNIS	4
PRIONOSPID MALMGRENI	5
GLYCERA SP.	8
RHYNCHOCCELA	8
LUMBRINERIS FRAGILIS	5
LUMBRINERIS TENUIS	5
NINOE NIGRIPES	12
CLIGOCCHAETA	2
UNCIGLA IRROCRATA	3
CANCER IRROCRATUS	2
NEOMYSIS AMERICANA	1
CERASTODERMA PIANULATUM	1
TELLINA AGILIS	1
PERUSA AFFINIS	1
NASSARIUS TRIVITTATUS	1
PITAR MORRHUANA	7
NUCULA PROXIMA	3
TRARYX ACUTUS	17
ARICIDEA JEFFREYSII	4
GLYCERA DIBRANCHIATA	1
DRILONERPEIS LONGA	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	029	31		C1	4025 N	7342 W	42.6
NO. SPECIES 24		NO. INDIVIDUALS 175		DIVERSITY 2.1217		EQUITABILITY 0.667		

SPECIES LISTING	COUNT
TELLINA AGILIS	13
TRICHOPOXUS EPISTOMUS	2
LEPTOCUMA MINOR	1
UNCYOLA IRROGATA	3
ASABELLIDES OCULATA	3
CANCER IRROGATUS	1
EDOTEA TRILOBEA	2
TRAVISTA CARNEA	2
LUMBRINERIS TENUIS	3
NEPHTYS BUCERA	5
RHYNCHOCOELE	2
NASSARIUS TRIVITTATUS	2
LUNATIA HERES	1
ASTARTE CASTANEA	1
CLIGOCHEA	2
ENSIIS DIRECTUS	3
CAPITELLA CAPITATA	54
EXOGONE HERES	1
PRIONOSPION MALMGRENI	1
POLYDORA LIGNI	1
THARYX MARICNI	11
THARYX ACUTUS	7
SPIOPHANES BOMBYX	57
SPIO FILICORNIS	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	029	31		C2	4025 N	7342 W	42.6
NO. SPECIES 13		NO. INDIVIDUALS 83		DIVERSITY 1.8013		EQUITABILITY 0.70		

SPECIES LISTING	COUNT
LEPTOCUMA MINOR	2
EXOGONE HERES	1
GLYCERA SP.	2
TELLINA AGILIS	3
ENSIIS DIRECTUS	1
AGLADPHAMUS CIRCINATA	1
NEPHTYS BUCERA	5
SPIOPHANES BOMBYX	37
SIGALION ASENTICOLA	1
CAPITELLA CAPITATA	2
NASSARIUS TRIVITTATUS	2
THARYX ACUTUS	12
THARYX MARICNI	14

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	029	31	C3	4025 N	7342 W	42.6
NO. SPECIES 13		NO. INDIVIDUALS 72		DIVERSITY 1.5732		EQUITABILITY 0.612	

SPECIES LISTING	COUNT
NEPHTYS BUCERA	6
GLYCERA SP.	1
TRICHOPOHXUS EPISTOMUS	1
NASSARIUS TRIVITTATUS	1
TELLINA AGILIS	7
DIASTYLIS SCULPTA	1
ENSIS DIRECTUS	2
CANCER IRRORATUS	1
LEPTOCUMA MINOR	1
SPIOPHANES BOMBYX	41
CAPITELLA CAPITATA	1
CAULLERIELLA SP.	8
PSEUDONICOLA OBLIQUA	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	029	31	04	4025 N	7342 W	42.6
NO. SPECIES 21		NO. INDIVIDUALS 155		DIVERSITY 1.9811		EQUITABILITY 0.65	

SPECIES LISTING	COUNT
CRANGON SEPTEMSPINOSA	1
CANCER IRRORATUS	1
ECOTEA TRILOBA	4
DIASTYLIS QUADRISPINOSA	1
TELLINA AGILIS	10
ENSIS DIRECTUS	2
CERASTODERMA PANNULATUM	1
ASABELLIDES OCOLATA	1
GLYCERA DIERANCHIATA	4
SPIOPHANES BOMBYX	82
CAPITELLA CAPITATA	22
THARYX ACUTUS	16
LUMBRINERIS FRAGILIS	1
CERTANTHUS AMERICANUS	2
CLIGOCHAETA	6
NASSARIUS TRIVITTATUS	4
LEPTOCUMA MINOR	1
MONOCULODES EDWARDSI	1
LUNATIA PERCS	1
RHYNCHOCOLA	1
NEPHTYS PICTA	23

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	030 32	01	4025 N	7344 W	44.1
NO. SPECIES 19		NO. INDIVIDUALS 1824		DIVERSITY 0.6931		EQUITABILITY 0.23

SPECIES LISTING	COUNT
RYNCHOCOELE	5
NASSARIUS TRIVITTATUS	4
EDOTEA TRILCBA	5
UNCTOLA IRFORATA	2
CANCER IRROCRATUS	11
TELLINA AGILIS	24
ERIS DIRECTUS	1
THARYX ACUTUS	25
GLYCERA SP.	9
NEPHTYS BUCERA	2
AGLAOPHAMUS CIRCINATA	1
CERIANTHUS AMERICANUS	3
NEMATODA	3
LUNATIA HEROS	3
SPIOPHANES BOMBYX	191
ASABELLIDES OCULATA	1
CAPITELLA CAPITATA	1525
OLIGOCHAETA	5
PAGURUS LONGICARPUS	4

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	030 32	02	4025 N	7344 W	44.1
NO. SPECIES 12		NO. INDIVIDUALS 128		DIVERSITY 1.5137		EQUITABILITY 0.61

SPECIES LISTING	COUNT
NUCULA PROXIMA	1
NASSARIUS TRIVITTATUS	3
OLIGOCHAETA	45
LUNATIA HEROS	1
TELLINA AGILIS	1
PHORONIS ARCHITECTA	1
CAPITELLA CAPITATA	19
CERIANTHUS AMERICANUS	2
NEMATODA	1
SPIOPHANES BOMBYX	3
GLYCERA DIBRANCHIATA	2
THARYX ACUTUS	49

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	04/08/73	030	32		C3	4025 N	7344 W	44.1	
NO. SPECIES	19	NO. INDIVIDUALS	819			DIVERSITY	1.5762	EQUITABILITY	0.5353

SPECIES LISTING	COUNT
CAPITELLA CAPITATA	228
SPIOPHANES BOMBYX	299
ASABELLIDES OCOLATA	1
SPIO FILICORNIS	8
LUMBRINERIS TENUIS	1
THARYX ACUTUS	194
MEDIOMASTUS AMBISSETAE	1
CERIANTHUS AMERICANUS	2
RHYNCHOCOELA	1
GLYCERA DIERANCHIATA	11
OLIGOCHAETA	33
TELLINA AGILIS	13
PITAR MORRHUANA	2
PAGURUS LONGICARPUS	1
CANCER IRROBRATUS	12
NASSARIUS TRIVITTATUS	3
LUNATIA HEROS	4
ECOTEA TRILOBA	4
PALAEMONETES INTERMEDIUS	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	04/08/73	030	32		04	4025 N	7344 W	44.1	
NO. SPECIES	18	NO. INDIVIDUALS	1334			DIVERSITY	1.5646	EQUITABILITY	0.5413

SPECIES LISTING	COUNT
RHYNCHOCOELA	4
UNCIOLA IRROBRATA	1
CRANGON SEPTEMSPINOSA	1
ECOTEA TRILOBA	19
CANCER IRROBRATUS	17
OLIGOCHAETA	102
CHIRIDOTEA TJEETSI	1
CAPITELLA CAPITATA	567
SPIOPHANES BOMBYX	291
THARYX ACUTUS	163
PHORONIS ARCHITECTA	1
NASSARIUS TRIVITTATUS	9
TELLINA AGILIS	9
CERIANTHUS AMERICANUS	19
LUNATIA HEROS	1
MEDIOMASTUS AMBISSETAE	2
GLYCERA DIERANCHIATA	22
SPIO FILICORNIS	6

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	031	33	C1	4025 N	7346 W	56.3
NO. SPECIES 10		NO. INDIVIDUALS		47	DIVERSITY 1.7486		EQUITABILITY 0.7594

SPECIES LISTING	COUNT
CERTANTHUS AMERICANUS	5
NINCE NIGRIPES	1
GLYCERA SP.	1
RYNCHOCOELA	9
SPIC FILICORNIS	1
GLYCER: DIBRANCITATA	1
CANCER IPPORATUS	2
ECOTEA TRILOBIA	7
CAPITELLA CAPITATA	1
SPIOPHANES BOMBYX	19

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	031	33	C2	4025 N	7346 W	56.3
NO. SPECIES 12		NO. INDIVIDUALS		1015	DIVERSITY 0.3115		EQUITABILITY 0.1253

SPECIES LISTING	COUNT
RYNCHOCOELA	26
CAPITELLA CAPITATA	959
CERTANTHUS AMERICANUS	6
PHYLLODOCE ARENAE	1
ECOTEA TRILOBIA	7
HARMOTHE IMBRICATA	1
CANCER IPPORATUS	3
ETEONE FLAVA	4
PHIPIA AFFINIS	5
SPIC FILICORNIS	1
NINCE NIGRIPES	1
NEPHTYS INCISA	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	031	33	C3	4025 N	7346 W	56.3

C. SPECIES 10 NO. INDIVIDUALS 1623 DIVERSITY 0.0952 EQUITABILITY 0.0413

SPECIES LISTING	COUNT
RHYNCHOCOELA	14
ETEONE FLAVA	1
CANCER IRRORATUS	1
DECAPOD	1
GLYCERA SP.	1
PHYLLODOCE ARENAE	1
EDDTEA TRILOBA	2
CERTANTHUS AMERICANUS	1
SPIOPHANES BCMBYX	1
CAPITELLA CAPITATA	1600

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	04/08/73	031	33	C4	4025 N	7346 W	56.3

C. SPECIES 16 NO. INDIVIDUALS 1129 DIVERSITY 0.2252 EQUITABILITY 0.0812

SPECIES LISTING	COUNT
NINCE NIGRIPES	1
EDDTEA TRILOBA	2
CANCER IRRORATUS	2
PHERUSA AFFINIS	1
NASSARTUS TRIVITTATUS	1
CAPITELLA CAPITATA	1089
SPIO FILICORNIS	1
SPIOPHANES BCMBYX	1
NEPHTYS INCISA	1
ETEONE FLAVA	5
NEMATODA	1
RHYNCHOCOELA	18
PHYLLODOCE ARENAE	1
EDWARDSIA SIPUNCULOIDES	1
CERTANTHUS AMERICANUS	3
DECAPOD	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	032	34		C1	4025 N	7348 W	57.8
NO. SPECIES 19		NO. INDIVIDUALS 1613		DIVERSITY 0.5627		EQUITABILITY 0.1911		

SPECIES LISTING	COUNT
LUMBRINERIS TENUIS	1
OPHIOGLYCERA GIGANTEA	1
MEDICMASTUS AMBISSETAE	24
POTAMILLA NEGLECTA	2
CERASTODERMA PINNULATUM	1
NUCULA PROXIMA	1429
PITAR MORRHUANA	2
THARYX ACUTUS	61
PRIONOSPION MALMGRENI	1
UNIO BIVALVE #2	2
PHORONIS ARCHITECTA	2
PROTODRILUS SYMBIOTICUS	1
RHYNCHOCOELE	6
EDWARDSIA SP.	1
PERUSA AFFINIS	16
NEPHTYS INCISA	30
CERTANTHUS AMERICANUS	14
PARANIS GRACILIS	7
YCLIDIA LIMATULA	2

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	032	34	02	4025 N	7348 W	57.8	
NO. SPECIES 23		NO. INDIVIDUALS 1879		DIVERSITY 0.6675		EQUITABILITY 0.212		

SPECIES LISTING	COUNT
PHORONIS ARCHITECTA	4
ETEONE LONGA	2
PRIONOSPION STEENSTRUPI	2
PERUSA AFFINIS	19
CERANTHUS AMERICANUS	25
RHYNCHOCOLA	1
EDWARDSIA SP.	1
PITAR MORRHUANA	3
UNID BIVALVE #2	2
CERASTODERMA PANNULATUM	1
PARAONIS GRACILIS	9
THARYX ACUTUS	76
MEDIOMASTUS AMBISSETAE	42
POTAMILLA NEGLECTA	6
NEPHTYS INCISA	26
NINCE NIGRIPES	1
LUMBRINERIS TENUIS	5
COSSURA LONGOCIRRATA	1
HARTMANIA MOOREI	2
OPHIOLYCEFERA GIGANTEA	1
TELLINA AGILIS	6
YCOLOIA LIMATULA	5
NUCULA PROXIMA	1639

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	032	34	C3	4025 N	7348 W	57.8	

NO. SPECIES 21 NO. INDIVIDUALS 1511 DIVERSITY 1.1060 EQUITABILITY 0.3633

SPECIES LISTING	COUNT
PARAONIS GRACILIS	17
MEDIOMASTUS AMBISSETAE	66
NUCULA PROXIMA	1140
CERASTODERMA PINNULATUM	3
PHORONIS ARCHITECTA	19
CAPITELLA CAPITATA	2
SPIOPHANES BOMBYX	1
NINCE NIGRIPES	5
PITAR MORRHUANA	8
LUMBRINERIS TENUIS	4
TELLINA AGILIS	1
YOLDIA LIMATULA	5
THARYX ACUTUS	119
PERUSA AFFINIS	46
RHYNCHOCOLA	16
CERTANTHUS AMERICANUS	23
NEPHTYS INCISA	16
HARMOTHOE EXTENSATA	3
PRIONOSPION STEENSTRUPI	9
POTAMILLA NEGLECTA	7
CANCER IRRORATUS	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	032	34	C4	4025 N	7348 W	57.8	

NO. SPECIES 18 NO. INDIVIDUALS 1602 DIVERSITY 0.9549 EQUITABILITY 0.3304

SPECIES LISTING	COUNT
NEPHTYS INCISA	20
CASSIDATA LONGICORNIS	6
MEDIOMASTUS AMBISSETAE	61
LUMBRINERIS TENUIS	4
RHYNCHOCOLA	4
THARYX ACUTUS	166
ETEONE LONGA	3
NUCULA PROXIMA	1243
PERUSA AFFINIS	21
PARAONIS GRACILIS	19
YOLDIA LIMATULA	1
UNID. BIVALVE #2	2
PITAR MORRHUANA	9
CERASTODERMA PINNULATUM	2
PHORONIS ARCHITECTA	8
CERTANTHUS AMERICANUS	24
PRIONOSPION STEENSTRUPI	2
POTAMILLA NEGLECTA	7

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	033	35	01	4025 N	7350 W	50.2
NO. SPECIES 26		NO. INDIVIDUALS 4182		DIVERSITY 0.6165		EQUITABILITY 0.1892	

SPECIES LISTING	COUNT
PITAR MORRHUANA	7
CERTANTHUS AMERICANUS	27
THARYX ACUTUS	251
PERUSA AFFINIS	26
CERASTODERMA PINNULATUM	4
NCTOMASTUS LATERICEUS	1
YCLDIA LIMATULA	12
MULINIA LATERALIS	3
PHRONIS ARCHITECTA	12
EDDTEA TRILOBATA	1
MEDIOMASTUS AMBISSETAE	15
NUCULA PROXIMA	3650
POLYDORA LIGNI	2
OSTRACODA	3
OLIGOCHAETA	1
NEREIS VIRENS	1
THARYX MARIONI	7
NEPHTYS INCISA	37
COSSURA LONGICIRRATA	1
RHYNCHOCCELA	8
PRIONOSPITO MALMGRENI	1
PARADNIS GRACILIS	4
LUMBRINERIS TENUIS	24
NINOE NIGRIPES	42
NEMATODA	1
PCTAMILLA NEGLECTA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	033	35		C2	4025 N	7350 W	50.2

NO. SPECIES 29 NO. INDIVIDUALS 3627 DIVERSITY 0.7581 EQUITABILITY 0.225

SPECIES LISTING	COUNT
CANCER IRRORATUS	3
LUMBRINERIS COCCINEA	1
ASABELLIDES OCOLATA	1
MEDICOMASTUS AMBISSETAE	19
CESSURA LONGICIRRATA	1
HARMOTHOE EXTENUATA	1
MULINIA LATERALIS	1
PITAR MORRHUANA	4
THARYX ACUTUS	339
YOLDIA LIMATULA	3
PERONIS ARCHITECTA	21
CERASTODERMA PINNULATUM	2
TELLINA AGILIS	3
UNIT BIVALVE #2	2
OSTRACODA	1
LUMBRINERIS TENUIS	60
NINDE NIGRIPES	21
POTAMILLA NEGLECTA	2
PRIONOSPION STEENSTRUPI	6
PHERUSA AFFINIS	27
REYNCHOCOELA	9
NEPHTYS INCISA	30
CERIANTHUS AMERICANUS	36
THARYX MARIONI	6
PARANIS GRACILIS	3
NASSARIUS TRIVITTATUS	1
NUCULA PROXIMA	3018
POLYDORA LIGNI	5
SPIROPHANES BOMBYX	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH
		CRUISE	SYMAP				METERS
A7301	04/08/73	033	35	C3	4025 N	7350 W	50.2
NO. SPECIES 24		NO. INDIVIDUALS 1006		DIVERSITY 1.6327		EQUITABILITY 0.51	

SPECIES LISTING	COUNT
RHYNCHOCOLA	4
THARYX ACUTUS	521
PHORONIS ARCHITECTA	7
ENSIS DIRECTUS	2
GLYCERA DTERANCHIATA	5
PLYDORA LIGHT	11
CANCER IPROCRATUS	2
DECAPOD	1
UNCIOLOA IRROCRATA	4
PRIONOSPION STEENSTRUPI	10
TELLINA AGILIS	26
PITAR MORRHUANA	1
NASSARIUS TRIVITTATUS	2
UNIO BIVALVE #2	2
NUCULA PROXIMA	221
CERIANTHUS AMERICANUS	4
SPIO FILICORNIS	37
OSTRACODA	3
PHERUSA AFFINIS	9
SPIOPHANES BOMBYX	63
ARICIDEA JEFFREYSII	4
STHENELAIS LIMICOLA	1
LYMBRINERIS TENUIS	43
MEDICMASTUS AMBISSETAE	13

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
47301	04/08/73	033	35		C4	4025 N	7350 W	50.2
NO. SPECIES 27		NO. INDIVIDUALS		793	DIVERSITY 1.8149		EQUITABILITY 0.5507	

SPECIES LISTING	COUNT
PARANIS GRACILIS	1
THARYX ACUTUS	83
POLYDORA LIGNI	1
PITAR MORRHUANA	21
STHENELEIS LIMICOLA	2
ARICIDEA JEFFREYSII	5
NEPHTYS INCISA	16
UNIO BIVALVE #2	3
CERIANTHUS AMERICANUS	13
RHYNCHOCOELE	4
NINICE NIGRIPES	93
CERASTODERMA PINNULATUM	2
LUMBRINERIS TENUIS	47
PRIONOSPIO STEENSTRUPI	12
SPIOPHANES COMBYX	33
SPIO FILICORNIS	2
MYTILUS EDULIS	1
PHORONIS ARCHITECTA	3
PHYLLODOCE ARENAE	1
CANCER TERRORATUS	1
DIASTYLIS POLITA	1
HYDROBIA MINUTA	2
NUCULA PROXIMA	415
TELLINA AGILIS	4
GLYCERA SP.	4
GLYCERA CIRRHANCHIATA	5
MEDICMASTUS AMBISSETAE	18

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	034	36	C1	4025 N	7352 W	37.4
NO. SPECIES	11	NO. INDIVIDUALS		61	DIVERSITY	1.8126	EQUITABILITY 0.7

SPECIES LISTING	COUNT
REYNCHOCCELA	3
NEPHTYS BUCERA	1
SPIC FILICORNIS	4
ENSIS DIRECTUS	3
TELLINA AGILIS	5
NASSARIUS TRIVITTATUS	1
UNCIOLA IRROCRATA	1
CRANGON SEPTEMSPINOSA	2
GLYCERA SP.	9
POLYDORA LIGNI	4
SPIOPHANES BOMBYX	28

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	034	36	02	4025 N	7352 W	37.4
NO. SPECIES	17	NO. INDIVIDUALS		102	DIVERSITY	1.9282	EQUITABILITY 0.6

SPECIES LISTING	COUNT
ECOTEA TRILOBA	1
NASSARIUS TRIVITTATUS	4
NEOMYSTIS AMERICANA	1
SPIC FILICORNIS	5
ENSIS DIRECTUS	1
GLYCERA SP.	1
NEPHTYS BUCERA	3
PAGURUS LONGICARPUS	1
CANCER IRROCRATUS	2
DIASTYLIS QUADRISPINOSA	1
SPIOPHANES BOMBYX	25
THARYX ACUTUS	41
NUCULA PROXIMA	1
POLYDORA LIGNI	5
MAGELONA ROSEA	1
REYNCHOCCELA	2
TELLINA AGILIS	7

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	034 36	C3	4025 N	7352 W	37.4

NO. SPECIES 14 NO. INDIVIDUALS 144 DIVERSITY 1.8842 EQUITABILITY 0.7140

SPECIES LISTING	COUNT
SPIOPHANES BOMBYX	53
MYTILUS EDULIS	8
PAGURUS LONGICARPUS	1
CANCER IRRORATUS	1
CRANGON SEPTEMSPINOSA	1
THARYX ACUTUS	6
GLYCERA DIPBRANCHIATA	1
LUMBRINERIS FRAGILIS	1
POLYDORA LIGNI	13
UNCIOLA IRRORATA	1
SPIG FILICORNIS	34
STHENELEIS LIMICOLA	3
NEPHTYS PICTA	8
TELLINA AGILIS	13

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	034 36	04	4025 N	7352 W	37.4

NO. SPECIES 21 NO. INDIVIDUALS 289 DIVERSITY 1.9027 EQUITABILITY 0.6250

SPECIES LISTING	COUNT
ENSIS DIRECTUS	2
TELLINA AGILIS	14
STAURONERIS CAECUS	1
CAPITELLA CAPITATA	1
MEDICMASTUS AMBISSETAE	1
THARYX ACUTUS	16
MYTILUS EDULIS	70
UNIO BIVALVE #2	1
SPIGULA SOLIDISSIMA	1
ASTERIAS FORBESII	8
GLYCERA DIPBRANCHIATA	1
CANCER IRRORATUS	5
CRANGON SEPTEMSPINOSA	5
UNCIOLA IRRORATA	1
SPIG FILICORNIS	24
LUMBRINERIS FRAGILIS	1
CERASTODERMA PINNULATUM	1
SPIOPHANES BOMBYX	22
CLIGOCHEAETA	4
POLYDORA LIGNI	8
ASAPPELLIDES OCULATA	2

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	035	37	01	4025 N	7354 W	40.1

D. SPECIES 14 NO. INDIVIDUALS 686 DIVERSITY 1.1226 EQUITABILITY 0.4254

SPECIES LISTING	COUNT
NEPHTYS INCISA	37
TEARYX ACUTUS	29
NEOMYSTIS AMERICANA	4
PHERUSA AFFINIS	46
CERTANTHUS AMERICANUS	35
LUMBRINERIS TENUIS	4
NINCE NIGRIPES	2
YCLDIA LIMATULA	3
NUCULA PROXIMA	501
CANCER TROPICATUS	3
PHORONIS ARCHITECTA	13
URID BIVALVE #2	3
PITAR MORRHUANA	5
MULLINIA LATERALIS	1

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	035	37	02	4025 N	7354 W	40.1

C. SPECIES 20 NO. INDIVIDUALS 2775 DIVERSITY 0.8526 EQUITABILITY 0.2646

SPECIES LISTING	COUNT
CERTANTHUS AMERICANUS	53
CAPITELLA CAPITATA	1
PHERUSA AFFINIS	169
NEPHTYS INCISA	63
MEDICMASTUS AMBISSETAE	5
POLYDORA LIGNI	6
TEARYX ACUTUS	84
PARSONIS GRACILIS	6
LUMBRINERIS TENUIS	22
COSSURA LONGICIRRATA	1
HARTMANTA MOOREI	1
RHYNCHOCOLA	8
CHAETOZOA SETOSA	1
TEARYX MARIONI	28
CANCER TROPICATUS	5
YCLDIA LIMATULA	10
MULLINIA LATERALIS	7
PITAR MORRHUANA	15
PHORONIS ARCHITECTA	6
NUCULA PROXIMA	2274

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	035	37	03	4025 N	7354 W	40.1
NO. SPECIES 12		NO. INDIVIDUALS 2511		DIVERSITY 0.6276		EQUITABILITY 0.2	

SPECIES LISTING	COUNT
MULINIA LATERALIS	2
YCLDIA LIMATULA	1
PHORONIS ARCHITECTA	2
CRANGON SEPTEMSPINOSA	1
CANCER IRRORATUS	2
NUCULA PROXIMA	2144
LUMBRINERIS TENUIS	25
THARYX ACUTUS	71
NEPHTYS INCISA	39
PERUSA AFFINIS	188
CERTANTHUS AMERICANUS	34
NINDE NIGRIPES	2

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	035	37	04	4025 N	7354 W	40.1
NO. SPECIES 10		NO. INDIVIDUALS 50		DIVERSITY 1.6172		EQUITABILITY 0.7	

SPECIES LISTING	COUNT
PERUSA AFFINIS	3
REYNCHOCOLA	4
NEPHTYS INCISA	8
PHORONIS ARCHITECTA	2
POLYDORA LIGNI	49
HARMOTHE EXTENUATA	1
CERTANTHUS AMERICANUS	6
UNCIOLA IRRORATA	3
CANCER IRRORATUS	5
NUCULA PROXIMA	9

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	036 38	01	4025 N	7356 W	25.8
NO. SPECIES 12		NO. INDIVIDUALS	32	DIVERSITY 2.0889	EQUITABILITY 0.8406	

SPECIES LISTING	COUNT
CRANGON SEPTEMSPINOSA	2
PROTOHAUSTORIUS WIGLEYI	2
MULLINIA LATERALIS	2
SPISSULA SOLIDISSIMA	1
ACANTHOHAUSTORIUS SPINOSUS	2
ECHINAPACHNIUS PARMA	11
TELLINA AGILIS	6
ASTARTE CASTANEA	2
SCOLELPEIS SQUAMATA	1
SIGALION APENNICOLA	1
OVALIPES OCELLATUS	1
NEPHTYS BUCERA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	036 38	02	4025 N	7356 W	25.8
NO. SPECIES 18		NO. INDIVIDUALS	46	DIVERSITY 2.6546	EQUITABILITY 0.9184	

SPECIES LISTING	COUNT
NEPHTYS BUCERA	4
SCOLELPEIS SQUAMATA	6
LUMBRINERIS ACUTA	1
ASTARTE CASTANEA	1
SPISSULA SOLIDISSIMA	2
ECHINAPACHNIUS PARMA	4
GLYCERA SP.	4
OPHELIA DENTICULATA	1
STAURONERES CAECUS	1
RIYINCHOCOEFLA	1
LEPTOCUMA MINOR	1
PROTOHAUSTORIUS WIGLEYI	2
CANCER IRROBRATUS	4
PROTODRILUS SYMBIOTICUS	7
LEPTOCHELIA SAVIGNYI	1
TELLINA AGILIS	2
CRANGON SEPTEMSPINOSA	1
ORBINIA ORNATA	3

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	036	38	C3	4025 N	7356 W	25.8
NO. SPECIES	5	NO. INDIVIDUALS	12	DIVERSITY	1.7045	EQUITABILITY	0.951

SPECIES LISTING	COUNT
HEMIPODUS ARMATUS	2
SPIOPHANES BOMBIX	3
SPISSULA SOLIDISSIMA	1
TELLINA AGILIS	2
SCOLELEPIS SQUAMATA	1
NEPHTYS BUCERA	3

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	036	38	C4	4025 N	7356 W	25.8
NO. SPECIES	15	NO. INDIVIDUALS	33	DIVERSITY	2.3769	EQUITABILITY	0.877

SPECIES LISTING	COUNT
SPIOPHANES BOMBIX	1
CANCER IRROBRATUS	1
TELLINA AGILIS	2
SPISSULA SOLIDISSIMA	1
LEPTOCUMA MINOR	7
PARAHAUSTORIUS ATTENUATUS	1
HEMIPODUS ARMATUS	1
PROTODRILLUS SYMBIOTICUS	1
ASABELLIDES COLLATA	2
ARICIDEA JEFFREYSII	1
LUMBRINERIS FRAGILIS	1
LUMBRINERIS ACUTA	7
NEPHTYS BUCERA	4
PROTOHAUSTORIUS WIGLEYI	2
ECHINOIDEA	1

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CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7311	04/08/73	CRUISE 036 SYMAP 38	C5	4025 N	7356 W	25.8
NO. SPECIES 19		NO. INDIVIDUALS 88		DIVERSITY 2.3260		EQUITABILITY 0.7900

SPECIES LISTING	COUNT
NEPHTYS BUCERA	1
ORBINTA ORNATA	2
SCOLELEPIS SQUAMATA	3
TEPHRYX ANNULOSUS	1
OPHELIA BICORNIS	1
SIGALION ARENICOLA	1
HEMIPODUS ARMATUS	21
ARICIDEA JEFFREYSII	1
LUMBRINERIS ACUTA	10
LEPTOCYMA MINOR	2
PROTODRILUS SYMBIOTICUS	7
CRANGON SEPTEMSPINOSA	3
LEPTOCHELIA SAVIGNYI	4
SPISULA SOLIDISSIMA	7
TELLINA AGILIS	1
CANCER IRROCRATUS	4
ASTARTE CASTANEA	6
PARAPIONOSYLLIS LONGICIRRATA	2
HELOTHURCIDAE	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
1301	04/08/73	037	39	C1	4025 N	7357 W	17.3
D. SPECIES 15		NO. INDIVIDUALS		312	DIVERSITY 1.6271		EQUITABILITY 0.6008

SPECIES LISTING	COUNT
OLIGOCHAETA	7
STAURONEREIS CAECUS	1
PARADONIS FULGENS	23
CRANGON SEPTEMSPINOSA	1
SPIROBIS BOREALIS	162
PROTODRILUS SYMBIOTICUS	25
ASTARTE CASTANEA	26
SPIGULA SOLIDISSIMA	4
NEPHTYS BUCERA	6
HEMIPODUS ARMATUS	48
TELLINA AGILIS	4
LUNATIA HEROS	1
LUMBRINERIS ACUTA	1
POLYDORA LIGNI	1
TERYX ACUTUS	2

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	04/08/73	037	39	C3	4025 N	7357 W	17.3
C. SPECIES 10		NO. INDIVIDUALS		33	DIVERSITY 1.7381		EQUITABILITY 0.7549

SPECIES LISTING	COUNT
ARICIDEA JEFFREYSII	1
NEPHTYS BUCERA	5
POLYDORA LIGNI	8
OLIGOCHAETA	1
NEOMYSIS AMERICANA	1
CANCER IPPORATUS	1
ASTERIAS FORBESII	1
ECHINARACHNIUS PARMA	13
TELLINA AGILIS	1
SPIGULA SOLIDISSIMA	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
1301	04/08/73	037	39	04	4025 N	7357 W	17.3

NO. SPECIES 12 NO. INDIVIDUALS 34 DIVERSITY 1.7836 EQUITABILITY 0.7178

SPECIES LISTING	COUNT
CANCER IRRORATUS	1
ECHINARACHNIUS PARMA	1
TRYPHAX ACUTUS	1
TELLINA AGILIS	1
PROTOHAUSTORIUS DETCHMANNAE	4
TRICHOPOXUS EPISTOMUS	1
CRANGON SEPTENSPINOSA	1
ACANTHOHAUSTORIUS SPINOSUS	4
PARAHAUSTORIUS ATTENUATUS	1
PROTOHAUSTORIUS WIGLEYI	17
CHIRIDOTEA TUFTSI	1
SPIOPHANES BCMBYX	1

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	038 40	01	4022 N	7357 W	21.8

NO. SPECIES 1 NO. INDIVIDUALS 1

SPECIES LISTING	COUNT
NUCULA PROXIMA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	038 40	C2	4022 N	7357 W	21.8

NO. SPECIES 9 NO. INDIVIDUALS 31 DIVERSITY 1.9127 EQUITABILITY 0.870

SPECIES LISTING	COUNT
GLYCERA SP.	3
NUCULA PROXIMA	1
CANCER IRRORATUS	2
ARICIDEA JEFFREYSII	8
POLYDORA LIGNI	9
ASABELLIDES OCULATA	1
LUMBRINERIS TENUIS	2
PRIONOSPIC MALMGRENI	3
SPIOPHANES BCMBYX	2

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	038 40	03	4022 N	7357 W	21.8

NO. SPECIES 16 NO. INDIVIDUALS 64 DIVERSITY 2.1662 EQUITABILITY 0.781

SPECIES LISTING	COUNT
POLYDORA LIGNI	21
STREBLOSPIG BENEDICTI	1
SPIOPHANES BCMBYX	1
NEPHTYS INCISA	1
PERUSA AFFINIS	4
THARYX ACUTUS	5
CANCER IRRORATUS	6
GLYCERA AMERICANA	1
TELLINA AGILIS	1
NASSARIUS TRIVITTATUS	1
NEOMYSIS AMERICANA	1
ASABELLIDES OCULATA	5
GLYCERA DIPRANCIATA	1
PRIONOSPIC MALMGRENI	12
LUMBRINERIS FRAGILIS	1
ARICIDEA JEFFREYSII	2

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	04/08/73	039	40	C4	4022 N	7357 W	21.8
NO. SPECIES 13		NO. INDIVIDUALS 47		DIVERSITY 1.8964		EQUITABILITY 0.7392	

SPECIES LISTING	COUNT
PROTODRILUS SYMBIOTICUS	4
ARICIDEA WASSI	1
GLYCERA DIERANCIATA	1
TRAVISIA CARNEA	1
NEOMYSIS AMERICANA	1
SPISSULA SOLIDISSIMA	3
TELLINA AGILIS	3
PCLYDORA LIGNI	1
SPIOPHANES BOMBYX	20
GLYCERA SP.	1
NEPHTYS BUCERA	9
NEMATODA	1
RHYNCHOCOLA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	04/08/73	039	41	CI	4022 N	7356 W	29.5	
NO. SPECIES	21	NO. INDIVIDUALS	187	DIVERSITY	2.1364	EQUITABILITY	0.7017	

SPECIES LISTING	COUNT
ECHINARACHNIUS PARMA	1
SPIGULA SOLIDISSIMA	11
NUCULA PROXIMA	2
AGLAOPHAMUS CIRCINATA	1
NEPHTYS BUCERA	7
GLYCERA DIERANCIATA	1
PROTOHAUSTORIUS WIGLEYI	25
LEPTOCHELIA SAVIGNYI	1
TRICHOPOXUS EPISCUMUS	6
PSEUDUNCIOLA OBLIQUA	42
NEOMYSIS AMERICANA	1
CANCER IRROCRATUS	1
LYONIA FIALINA	1
HEMIPODUS ARMATUS	3
SPIOPHANES BCMBYX	58
NEMATODA	1
THARYX ACUTUS	2
APICIDEA JEFFREYSII	2
ASCIDIACEA	2
TELLINA AGILIS	15
ASTARTE CASTANEA	4

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RUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	040	42	01	4022 N	7354 W	36.5	

D. SPECIES 7 NO. INDIVIDUALS 49 DIVERSITY 0.9565 EQUITABILITY 0.4915

SPECIES LISTING	COUNT
RHYNCHOCCELA	1
CRANGON SEPTemspINOSA	1
ENSTIS DIRECTUS	2
ECHINARACHNIUS PARMA	37
LUNATIA HERCS	1
TRICHOPOXUS EPISTOMUS	4
CANCER IRRORATUS	3

RUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	040	42	02	4022 N	7354 W	36.5	

C. SPECIES 33 NO. INDIVIDUALS 466 DIVERSITY 1.8031 EQUITABILITY 0.5157

SPECIES LISTING	COUNT
PANDORA GOULDIANA	1
RHYNCHOCCELA	4
NUCULA PROXIMA	2
SPI SULA SOLIDISSIMA	4
CRANGON SEPTemspINOSA	2
DIASTYLIS SCULPTA	1
PSEUDUNCTOLA ORLIQUA	30
UNCTOLA IRRORATA	2
GLYCERA SP.	7
CERTANTHUS AMERICANUS	1
LUNATIA HERCS	1
STHENELATS LIMICOLA	1
PARADIS GRACILIS	1
GLYCERA DIFRANCHIATA	4
NEPHTYS PICTA	4
HEMIPODUS ARMATUS	3
LUMBRINERIS TENUIS	3
EXOZONE HERES	3
SPIOPHANES EOMPYX	277
ARICIDEA JEFFREYSII	7
TRAVISIA CARNEA	1
ARICIDEA WASSI	2
CLIGOCHEATA	8
THARYX ACUTUS	29
PROTODRIIUS SYMBIOTICUS	1
EDDTEA TRILCBA	3
CANCER IRRORATUS	7
STAURONEREIS CAECUS	1
ENSTIS DIRECTUS	2
ECHINOIDEA	24
TELLINA AGILIS	13
ASCIDIACFA	6
PHERONIS ARCHITECTA	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	040	42		03	4022 N	7354 W	36.5
NO. SPECIES	21	NO. INDIVIDUALS	163	DIVERSITY	1.7202	EQUITABILITY	0.5650	

SPECIES LISTING	COUNT
ASCIDIACEA	1
MAGELONA ROSEA	1
CLIGOCCHAETA	1
TRAVISTA CARNEA	2
NUCULA PROXIMA	4
NEPHTYS BUCERA	1
RHYNCHOCOLA	1
PERUSA AFFINIS	1
TELLINA AGILIS	7
ECHINAPACHNIUS PARMA	7
CRANGON SEPTEMSPINOSA	6
ECOTEA TRILCBA	1
NECMYSIS AMERICANA	2
ARICIDEA JEFFREYSII	6
PRIONOSPID MALMGRENI	1
SPIOPHANES ECMRYX	93
THARYX ACUTUS	22
SPIC FILICORNIS	1
PHYLLODOCE ARENAE	1
AGLADPHAMUS CIRCINATA	1
GLYCERA DIPRANCIATA	3

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CRUISE	DATE	STATION NUMBER		CRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	040	42	04	4022 N	7354 W	36.5
NO. SPECIES 24		NO. INDIVIDUALS 345		DIVERSITY 0.8088		EQUITABILITY 0.254	

SPECIES LISTING	COUNT
ECOTEA TRILOBA	1
CANCER IRROCRATUS	4
NEOMYSIS AMERICANA	1
DIASTYLIS SCULPTA	1
SPIOPHANES COMBYX	2
LUMBRINERIS FRAGILIS	6
LUMBRINERIS TENUIS	1
UNCIOLA IRROCRATA	4
CERIANTHUS AMERICANUS	1
SPIC FILICORNIS	3
STHENELAIS LIMICOLA	1
EDWARDSIA SP.	1
ECHINOIDEA	1
UNID RIVALVE #2	1
ENSIS DIRECTUS	1
TELLINA AGILIS	4
THARYX MARICHI	4
PROTOPRILUS SYMBIOTICUS	4
CRANGON SEPTEMSPINOSA	2
THARYX ACUTUS	257
GLYCERA DI BRANCHIATA	1
RHYNCHOCOELE	1
APICIDIA JEFFREYSII	2
HEMIPODUS ARMATUS	1

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAE	LATITUDE	LONGITUDE	DEPTH METERS	
A7301	05/08/73	041 43	C1	4022 N	7352 W	44.1	
NO. SPECIES	23	NO. INDIVIDUALS	666	DIVERSITY	1.0963	EQUITABILITY	0.3496

SPECIES LISTING	COUNT
CERASTODELMA PINNULATUM	3
CANCER IRRORATUS	3
SPIOPHANES EOMBYX	4
TELLINA AGILIS	1
PAGURUS LONGICARPUS	1
ISCHYRO CERUS ANGUIPES	2
ETEONE LONGA	7
PCLYDORA LIGHT	1
THARYX ANNULOSUS	2
PHORONIS ARCHITECTA	9
PHERUSA AFFINIS	12
MEDIOMASTUS AMBISSETAE	8
LUMBRINERIS TENUIS	15
NINCE NIGRIPES	10
CERTANTHUS AMERICANUS	2
ARICIDEA JEFFREYSII	1
PRIONOSPIO MALMGRENT	51
RYNCHOCCEL A	2
UNCIOLA IRRCRATA	6
THARYX ACUTUS	514
UNID BIVALVE #2	1
NEPHTYS INCISA	6
NUCULA PROXIMA	5

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	042	44	CI	4022 N	7350 W	47.7	
NO. SPECIES	34	NO. INDIVIDUALS	407	DIVERSITY	2.5380	EQUITABILITY	0.7197	

SPECIES LISTING	COUNT
PITAR MORRHUANA	2
UNID BIVALVE #2	1
LUMBRINERIS FRAGILIS	5
AMPHARETE ARCTICA	1
THARYX ACUTUS	28
RHYNCHOCCELA	5
PERUSA AFFINIS	3
MEDICMASTUS AMBISSETAE	17
NINOE NIGRIPES	8
SPIOPHANES BOMBYX	24
CERTANTHUS AMERICANUS	1
GLYCERA DIBRANCHIATA	7
LUMBRINERIS TENUIS	18
HARMOTHOE EXTENUATA	2
ECHINOIDEA	1
CANCER IPPOCRATUS	8
EDOTEA TRILOBA	2
UNCIOLA IPPOCRATA	1
CERASTODERMA PINNULATUM	6
NUCULA PROXIMA	7
POTAMILLA NEGLECTA	2
PHYLLODOCE ARENAE	1
ARICIDEA JEFFREYSII	17
SPIO FILICORNIS	47
SPIO SETOSA	6
PROTODRILUS SYMBIOTICUS	27
ETEONE LONGA	1
THARYX MARIONI	6
ASABELLIDES OCULATA	2
GLYCERA CAPITATA	9
PRIONOSPID MALMGRENI	139
MYTILUS EDULIS	1
PERONIS ARCHITECTA	1
DIASTYLIS SCULPTA	1

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CRUISE	DATE	STATION NUMBER CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	042	44	02	4022 N	7350 W	47.7

C. SPECIES 35 NO. INDIVIDUALS 794 DIVERSITY 2.5449 EQUITABILITY 0.7158

SPECIES LISTING	COUNT
LUMBRINERIS TENUIS	20
GLYCERA DIERANCHIATA	1
PRIONOSPID STEENSTRUPI	140
NUCULA DELPHINOCONTA	8
ASABELLIDES OCULATA	4
AMPHARETE ARCTICA	2
POLYDORA QUADRILCBATA	1
SPIG FILICORNIS	14
THARYX MARCONI	17
THARYX ACUTUS	86
LEPTOCHEIRUS PINGUIS	1
UNCICLA IRBORATA	1
ETEONE LONGA	3
MEDIOMASTUS AMBISETAE	78
NEPHTYS INCISA	9
PHERUSA AFFINIS	7
ARICIDEA JEFFREYSII	1
PARAONIS GRACILIS	2
SCALIBREGMA INFLATUM	3
NINOE NICRIPES	39
CERTANTHUS AMERICANUS	19
REYNOCOECLA	11
YCOLOIA LIMATULA	3
POLYCIRRUS PHOSPHOREUS	1
SPIROPHANES BOMBYX	124
NUCULA PROXIMA	143
PROTODRILUS SYMBIOTICUS	1
PITAR MORRHUANA	13
POTAMILLA NEGLECTA	4
CERASTODERMA PINNULATUM	7
UNIO BIVALVE #2	2
ECOTEA TRILOBEA	3
CANCER IRBORATUS	17
PHORONIS ARCHITECTA	2
EDWARDSIA SP.	7

GH

CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	CRUISE 042 SYMAP 44	C3	4022 N	7350 W	47.7
NO. SPECIES	33	NO. INDIVIDUALS	363	DIVERSITY	2.4644	EQUITABILITY 0.7048

SPECIES LISTING	COUNT
NEOMYSIS AMERICANA	1
PYCNOGONIDA	1
MELITA DENTATA	54
PHOXOCEPHALLUS HOLBOLLI	1
ETEONE LONGA	1
NASSARIUS TRIVITTATUS	1
DECAPOD	1
OPHTHOGLYCERA GIGANTEA	2
LUMBRINERIS TENUIS	1
NEPHTYS INCISA	2
MYTILUS EDULIS	3
PHYLLODOCE MACULATA	2
CIRRATULUS CIRRATUS	10
CREPIDULA FORNICATA	1
CANCER TROPICATUS	9
OPHIURIDEA	1
PAGURIUS LONGICARPUS	3
UNCIOLA TROPICATA	26
NINOE NIGRIPES	2
NEREIS GRAYI	3
THARYX ACUTUS	67
HARMOTHOE IMBRICATA	1
SPIC FILICORNIS	2
AEGININA LONGICORNIS	3
HARMOTHOE EXTENUATA	20
PRIONOSPION STEENSTRUPI	67
MEDICMASTUS AMBISSETAE	48
ASTERIAS FORBESII	1
AMPHARETE ARCTICA	1
SCALIBREMA INFLATUM	1
CERASTODERMA PUNCTULATUM	2
NUCULA PROXIMA	6
PHERUSA AFFINIS	10

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	042 44	C4	4022 N	7350 W	47.7
O. SPECIES 24		NO. INDIVIDUALS	598	DIVERSITY 2.3419	EQUITABILITY 0.7369	

SPECIES LISTING	COUNT
NEPHTYS INCISA	22
EDWARDSIA SP.	1
NUCULA PROXIMA	92
ECOTEA TRILOBA	1
PARADONIS GRACILIS	1
ETEONE LONGA	1
THARYX ACUTUS	93
PHERUSA AFFINIS	6
NINOE NIGRIPES	25
LEMBRINERIS TENUIS	25
CERASTODERMA PUNCTULATUM	3
MEDIOMASTUS AMBISSETAE	136
PITAR MORRHUANA	6
CERTANTHUS AMERICANUS	38
SPIOPHANES EMPYX	3
NUCULA DELPHINODONTA	2
POTAMILLA NEGLECTA	8
DRILONEREIS LONGA	2
RHYNCHOCOLA	16
PRIONOSPIC MALMGRENII	88
UNIO BIVALVE #2	2
PERIDROMA FRAGILIS	4
THARYX MARICNI	15
SPIO FILICORNIS	8

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	05/08/73	043	45		CI	4022 N	7348 W	63.0
NO. SPECIES 33		NO. INDIVIDUALS 1695		DIVERSITY 2.0458		EQUITABILITY 0.5851		

SPECIES LISTING	COUNT
TELLINA AGILIS	1
UNID BIVALVE #2	3
PERRUSA AFFINIS	114
CERASTODERMA PINNULATUM	7
DRILONERETS LONGA	25
NINCE NIGRIPES	13
HARTMANTIA MCOFFI	1
PERIPLOMA FRAGILIS	1
CASSIPA LONGICIRRATA	4
PARAONIS GRACILIS	103
POLYDORA LIGNI	1
EDWARDSIA SP.	1
NEMATODA	15
REYNCHOCCELA	10
NUCULA DELPHINODONTA	3
HYDROBIA MINUTA	3
CERTANTHUS AMERICANUS	22
PITAR MORRHUANA	7
POTAMILLA NEGLECTA	61
PHOPONIS ARCHITECTA	2
ASTARTE UNDATA	1
NUCULA PROXIMA	573
HARMOHAE IMBRICATA	3
PELYCIRRUS PHOSPHORFUS	1
NEPHTYS INCISA	22
YOLPIA LIMATULA	1
ETEONE LACTEA	1
THARYX ACUTUS	355
PRIONOSPION MALMGRENI	25
AMPHARETE ARCTICA	2
OWENIA FUSIFORMIS	1
MEDICMASTUS AMPHISETAE	281
LUMBRINERIS TENUIS	12

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
201	05/08/73	044 46	01	4022 N	7346 W	50.8
NO. SPECIES 18		NO. INDIVIDUALS 45		DIVERSITY 2.6610		EQUITABILITY 0.9206

SPECIES LISTING	COUNT
GLYCERA DIFRANCHIATA	2
LUMBRINERIS FRAGILIS	1
TRAVISTIA CARNEA	5
PROTODRILUS SYMBIOTICUS	2
MEDIOMASTUS AMBISSETAE	1
CERTANTHUS AMERICANUS	1
NEPHTYS BUCERA	1
TRAPYX ACUTUS	1
ARICIDEA JEFFREYSII	1
ASABELLIDES OCOLATA	1
RHYNCHOCOELE	2
SPIOPHANES BOMBYX	3
GLYCERA SP.	7
CANCER IRRORATUS	4
TELLINA AGILIS	1
CRANGON SEPTEMSPINOSA	4
ECHINARACHNIUS PARMA	5
ASCIDIACEA	3

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	05/08/73	044 46	02	4022 N	7346 W	50.8
NO. SPECIES 14		NO. INDIVIDUALS 157		DIVERSITY 1.1787		EQUITABILITY 0.4466

SPECIES LISTING	COUNT
ECOTEA TRILOBA	1
PSEUDONICOLA OBLIQUA	1
TRICHOPEXUS EPITEMUS	3
AGLAPHAMUS CIRCINATA	1
GLYCERA DIFRANCHIATA	9
RHYNCHOCOELE	2
CANCER IRRORATUS	5
NUCULA PROXIMA	1
NASSARIUS TRIVITTATUS	1
TELLINA AGILIS	2
SPIOPHANES BOMBYX	17
STHENELAIS LIMICOLA	1
ECHINARACHNIUS PARMA	112
TRAVISTIA CARNEA	2

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	044 46	C3	4022 N	7346 W	50.8
C. SPECIES 13		NO. INDIVIDUALS	20	DIVERSITY 2.4320	EQUITABILITY 0.9482	

SPECIES LISTING	COUNT
ECHINARACHNIUS PARMA	1
CRANGON SEPTENSPINOSA	1
HIPPOMEDON SERRATUS	1
TRICHOPOXUS EPISTOMUS	3
CANCER IPPORATUS	1
ASCIDIACEA	1
ECHINARACHNIUS PARMA	2
TELLINA AGILIS	3
SPIOPHANES BOMBYX	3
RHYNCHOCELA	1
GLYCERA DIBRANCHIATA	1
NEPHTYS CAECA	1
AGLAOPHAMUS CIRCINATA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	044 46	C4	4022 N	7346 W	50.8
C. SPECIES 20		NO. INDIVIDUALS	59	DIVERSITY 2.6139	EQUITABILITY 0.9725	

SPECIES LISTING	COUNT
ECHINARACHNIUS PARMA	1
BIVALVE	1
RHYNCHOCELA	5
CRANGON SEPTENSPINOSA	1
TRICHOPOXUS EPISTOMUS	5
CANCER IPPORATUS	7
GLYCERA DIBRANCHIATA	5
NUCULA PROXIMA	2
LUMBRINERIS FRAGILIS	1
DIASTYLIS SCULPTA	1
ORBINIA ORNATA	2
ARTICIDEA JEFFREYSII	4
TRAVISIA CARNEA	1
ASABELLIDES OCULATA	1
DECAPOD	1
STEPHELIAS LIMICOLA	1
SPIOPHANES BOMBYX	13
CERASTODERMA PINNULATUM	1
HIPPOMEDON SERRATUS	2
AGLAOPHAMUS CIRCINATA	4

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	045	47		01	4022 N	7344 W	43.2
NO. SPECIES 15		NO. INDIVIDUALS 41		DIVERSITY 1.9817		EQUITABILITY 0.7311		

SPECIES LISTING	COUNT
NEPHTYS BUCERA	4
ASABELLIDES OCULATA	1
AMPHARETE ARCTICA	1
SPIC FILICORNIS	1
EXOGONE HEBES	1
TELLINA AGILIS	2
CRANGON SEPTEMPINOSA	1
LUNATIA HERES	1
SPIOPHANES BOMBYX	20
SPIGULA SOLIDISSIMA	1
GLYCERA DIERBRANCHIATA	2
CAPITELLA CAPITATA	2
THARYX MARIONI	1
THARYX ACUTUS	2
OLIGOCHAETA	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
1301	05/08/73	046	48	C1	4022 N	7342 W	46.5
C. SPECIES 26		NO. INDIVIDUALS 127		DIVERSITY 2.4853		EQUITABILITY 0.7628	

SPECIES LISTING	COUNT
SPISULA SOLIDISSIMA	1
PHERUSA AFFINIS	1
REYNCHOCOELA	1
PROTODRILUS SYMBIOTICUS	34
SPIO FILICORNIS	2
THARYX ANNULOSUS	1
NEMATODA	1
OLIGOCHAETA	16
UNID RIVALVE #2	1
THARYX MARICNI	7
PITAR MORRHUANA	2
NUCULA PROXIMA	2
LUMBRINERIS TENUIS	2
LUMBRINERIS FRAGILIS	2
ASABELLIDES OCVLATA	3
THARYX ACUTUS	19
ENSIS DIRECTUS	1
ARICIDEA JEFFREYSII	1
GLYCERA SP.	8
AGLAOPHAMUS CIRCINATA	1
NEPHTYS BUCERA	1
HARMOHDE EXTENUATA	1
STHENELEIS LIMICOLA	1
SPIOPHANES BOMBYX	13
GLYCERA DIBRANCHIATA	1
ECHINARACHNIUS PARMA	4

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	046	046	48	C2	4022 N	7342 W	46.5
NO. SPECIES	31	NO. INDIVIDUALS	208	DIVERSITY	2.5461	EQUITABILITY	0.7414	

SPECIES LISTING	COUNT
HYDROZOA	1
ASCIDIACEA	1
NUCULA PROXIMA	9
LUMBRINERIS FRAGILIS	10
LUMBRINERIS TENUIS	2
CAPITELLA CAPITATA	15
TEARYX ACUTUS	17
SPIC FILICORNIS	1
PAGURUS LONGICARPUS	2
UNIO BIVALVE #2	1
TELLINA AGILIS	9
PHORONIS ARCHITECTA	1
MYTILUS EDULIS	1
ECHINARACHNIUS PARMA	1
ASABELLIDES OCVLATA	9
CERTANTHUS AMERICANUS	1
GLYCERA DIBRANCHIATA	10
NEMATODA	24
RHYNCHOCCELA	1
DECAPOD	1
NEPHTYS PICTA	4
STHENELETS LIMICOLA	2
HARMOTHOE EXTENUATA	1
SPIOPHANES BOMBYX	2
PRIONOSPION STEENSTRUPI	1
PHOXOCEPHALUS HOLBOLLI	1
NASSARIUS TRIVITTATUS	1
DRILONEREIS LONGA	1
ALTOLYTUS CORNUTUS	11
AEGININA LONGICORNIS	65
CANCER IRROCRATUS	2

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	046 48	04	4022 N	7342 W	46.5
O. SPECIES 21		NO. INDIVIDUALS	55	DIVERSITY 2.4902	EQUITABILITY 0.8179	

SPECIES LISTING	COUNT
NEPHTYS PICTA	3
LUMBRINERIS TENUIS	1
GLYCERA DIBRANCHIATA	11
CERTANTHUS AMERICANUS	2
NUCULA PROXIMA	6
RHYNCHOCOELA	2
SPIOPHANES COMPYX	4
ARICIDEA JEFFREYSII	3
AMPHARETE ARCTICA	1
LUMBRINERIS FRAGILIS	2
CANCER IPPORATUS	1
EDDTEA TRILOBA	1
OLIGOCHAETA	22
ASABELLIDES OCULATA	8
TRAVISTIA CARNEA	1
PROTODRILUS SYMBIOTICUS	16
ECHINARACHNIUS PARMA	1
PALAEONETES INTERMEDIUS	1
TELLINA AGILIS	7
ENsis DIRECTUS	1
ASTARTE CASTANEA	1

CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	046 48	05	4022 N	7342 W	46.5
NO. SPECIES 17		NO. INDIVIDUALS	50	DIVERSITY 2.4442	EQUITABILITY 0.8627	

SPECIES LISTING	COUNT
GLYCERA DIBRANCHIATA	8
PROTODRILUS SYMBIOTICUS	1
OLIGOCHAETA	3
EXOGONE PEBES	1
ASABELLIDES OCULATA	4
THARYX ACUTUS	1
TRAVISTIA CARNEA	1
NUCULA PROXIMA	3
ECHINARACHNIUS PARMA	3
TELLINA AGILIS	13
NEMATODA	1
CAPITELLA CAPITATA	1
LUMBRINERIS FRAGILIS	3
CANCER IPPORATUS	3
EDDTEA TRILOPA	2
SPISSULA SOLIDISSIMA	1
RHYNCHOCOELA	1

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STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
301	05/08/73	047	49	CI	4022 N 7340 W	43.2
SPECIES 20		NO. INDIVIDUALS	387	DIVERSITY 0.7133	EQUITABILITY 0.2381	

SPECIES LISTING	COUNT
NINOE NIGRIPES	1
ARICIDEA JEFFREYSII	1
PHYLLODOCE ARENAE	1
ASABELLIDES OCULATA	4
NEPHTYS BUCERA	2
TELLINA AGILIS	4
ERISIS DIRECTUS	1
SPISULA SOLIDISSIMA	1
PITAR MORRHUANA	6
THARYX ACUTUS	6
GLYCERA DIERANCHIATA	12
SPIC FILICORNIS	3
SPIOPHANES BOMBYX	337
THARYX MARICNT	1
LUMBRINERIS FRAGILIS	2
PECTIS SP.	1
NASSARIUS TRIVITTATUS	1
RYNCHOCOELA	1
PERUSA AFFINIS	1
LUMBRINERIS COCCINEA	1

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	048 50	C1	4022 N	7330 W	42.6
C. SPECIES 23		NO. INDIVIDUALS	71	DIVERSITY 2.5131	EQUITABILITY 0.8015	

SPECIES LISTING	COUNT
GLYCERA SP.	1
PAGURUS LONGICARPUS	1
STREPLAIS LIMICOLA	1
SPIOPHANES PEMBYX	4
THARYX ACUTUS	2
SCCLOPIOS ACUTUS	2
NEPHTYS BUCERA	2
CAPITELLA CAPITATA	4
LEPTOCHELLIA SAVIGNYI	1
ARICIDEA JEFFREYSII	4
ECOTEA TRILOBA	2
ENASIS DIRECTUS	1
TRICHOPOXUS EPISTOMUS	1
LUNATIA HERCUS	1
GLYCERA CIBRANCHIATA	1
ASABELLIDES OCVLATA	6
CERTANTHUS AMERICANUS	1
LUMBRINERIS FRAGILIS	2
REYNCHOCCELA	1
ECHINARACHNIUS PARMA	5
PHORONIS ARCHITECTA	1
TELLINA AGILIS	25
SPISSULA SOLIDISSIMA	2

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CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	CRUISE 049 SYMAP 50	C2	4022 N	7338 W	42.6
NO. SPECIES 24		NO. INDIVIDUALS 50		DIVERSITY 2.8254		EQUITABILITY 0.8891

SPECIES LISTING	COUNT
PLYCIRRUS MEDUSA	1
CLIGOCHEETA	1
LUMBRINERIS FRAGILIS	2
SPIOPHANES COMBYX	7
THARYX ANNULOSUS	1
ECHINARACHNIUS PARMA	3
NICULA PROXIMA	1
SPIO FILICORNIS	1
CHAETAZONE SETOSA	1
GLYCERA DIPRANCHIATA	1
ASABELLIDES OCULATA	1
AGLAOPHANTUS CIRCINATA	2
ARICIDEA JEFFREYSII	4
THARYX ACUTUS	1
MEDICOMASTUS AMBISSETAE	1
CANCER IPPORATUS	2
TELLINA AGILIS	10
HIPPOMEDON SERRATUS	1
PSEUDUNCOLA OPLIOQUA	1
ASTERIAS FORBESII	1
PLEUROCOELES	3
ASTARTE CASTANEA	2
POLYDORA SP.	1
ECOTEA TRILCBA	1

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CRUISE	DATE	STATION NUMBER	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
1301	05/08/73	CRUISE 049 SYMAP 50	03	4022 N	7338 W	42.6
D. SPECIES 27		NO. INDIVIDUALS	93	DIVERSITY 2.6880	EQUITABILITY 0.8156	

SPECIES LISTING	COUNT
TELLINA AGILIS	12
ENASIS DIRECTUS	1
ECHINARACHNIUS PARMA	22
PROTOHAUSTORIUS WICLEYI	1
HIPPOMEDON SERRATUS	3
PHOXOCEPHALLUS HOLBOLLI	1
NEPHTYS BUCERA	2
THARYX ACUTUS	1
CAULLERIFELLA SP.	3
CIRRIFORMIA GRANDIS	1
AMPHARETE ARCTICA	1
SIGALION ARENICOLA	1
ASABELLIDES OCULATA	2
SPIOPHANES BOMBYX	9
PALAEONETES INTERMEDIUS	1
UNCIOLA IRROBRATA	11
REYNCHOCOELE	2
SPIGULA SOLIDISSIMA	2
CRANGON SEPTEMPINOSA	1
SPIC FILICORNIS	1
NUCULA PROXIMA	2
TRICHOPOXUS EPISTOMUS	1
OLIGOCHAETA	6
CIRCLANA POLITA	1
PSEUDUNCICLA OBLIQUA	1
LEPTOGNATHA CAECA	1
THARYX ANNULOSUS	3

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	043	50	C4	4022 N	7338 W	42.6
C. SPECIES 19		NO. INDIVIDUALS		83	DIVERSITY 2.0114		EQUITABILITY 0.6831

SPECIES LISTING	COUNT
SIGALION ARENICOLA	1
MONOCULODES EDWARDSI	1
TELLINA AGILIS	13
HIPPOMECON SERRATUS	1
RHYNCHOCELA	4
STHENELAIS LIMICOLA	1
ECHINARACHNIUS PARMA	36
ASTARTE CASTANEA	1
CERIANTHUS AMERICANUS	2
NEPHTYS BUCERA	2
SPIOPHANES COMPYX	2
ARICIDRA JEFFREYSII	1
ECOTEA TRILOBA	1
CAULLERTIELLA SP.	2
ASABELLIDES OCLATA	1
PAGURUS LONGICARPUS	1
NUCULA PROXIMA	1
CANCER IRROCRATUS	1
PSEUDUNCICLA OBLIQUA	11

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UISE	DATE	STATION NUMBER	CRUISE	SYMAB	CRAB	LATITUDE	LONGITUDE	DEPTH METERS
201	05/08/73	049	51	01	4019 N	7338 W	40.1	
. SPECIES 19		NO. INDIVIDUALS	817	DIVERSITY	0.3619	EQUITABILITY	0.1229	

SPECIES LISTING	COUNT
LUNATIA HEROS	1
THARYX ACUTUS	1
ASABELLIDES OCLATA	7
NUCULA PROXIMA	1
ENASIS DIRECTUS	2
CANCER IRROCRATUS	4
MENCCULODES EDWARDSI	1
TRAVISTA CARNEA	1
EDDTEA TRILOBA	1
RHYNCHOCCELA	2
CERIANTHUS AMERICANUS	3
UNCTOLA IRROCRATA	1
LUMBRINERIS FRAGILIS	4
PHYLLODOCE ARENAE	2
GLYCERA DIERANCIATA	9
ORILONERIS LONGA	4
HAPLOSCOLOPLES ROBUSTUS	1
SPIOPHANES BOMBYX	771
CRANGON SEPTEMSPINOSA	1

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UISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
101	05/08/73	050	52		01	4019 N	7340 W	41.6
. SPECIES 17		NO. INDIVIDUALS	796	DIVERSITY	0.4148	EQUITABILITY		0.1464

SPECIES LISTING	COUNT
AGLAPHAMUS CIRGINATA	2
CANCER IRRORATUS	4
ECOTEA TRILOBA	2
LEPTOCHELIA SAVIGNYI	1
CRANGON SEPTEMSPINOSA	2
ECHINODIFA	7
ONUPHIS OPALINA	1
SPIOPHANES POMBYX	741
PROTODRILUS SYMBIOTICUS	1
HEMIPODUS ARMATUS	1
ASABELLIDES OCOLATA	3
GLYCERA DI BRANCHIATA	9
THARYX ACUTUS	1
RHYNCHOCCELA	4
TRAVISTIA CARNEA	14
ARICIDEA JEFFREYSII	2
PHERUSA AFFINIS	1

UISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS.
301	05/08/73	050	52		02	4019 N	7340 W	41.6
. SPECIES 11		NO. INDIVIDUALS	198	DIVERSITY	0.6193	EQUITABILITY		0.2583

SPECIES LISTING	COUNT
CANCER IRRORATUS	3
CRANGON SEPTEMSPINOSA	1
LUMBRINERIS FRAGILIS	1
GLYCERA SP.	1
GLYCERA DI BRANCHIATA	1
ASABELLIDES OCOLATA	3
SPIOPHANES POMBYX	174
ECOTEA TRILOBA	1
RHYNCHOCCELA	6
ECHINARACHNIUS PARMA	5
HAPLOSCOLOPLOS ROBUSTUS	2

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ITSE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
301	05/08/73	050	52		C3	4019 N	7340 W	41.6
. SPECIES 17		NO. INDIVIDUALS	188	DIVERSITY	0.9871	EQUITABILITY	0.3484	

SPECIES LISTING	COUNT
RHYNCHOCOELA	5
ASABELLIDES OCULATA	2
TRAVISTIA CARNEA	2
GLYCERA DIBRANCHIATA	6
AGLAOPHAMUS CIRCINATA	2
STHENELEIS LIMICOLA	2
PALAEMONETES INTERMEDIUS	1
ECHINARACHNIUS PARMA	7
GLYCERA SP.	1
HAPLOSCOLOPLOS ROBUSTUS	1
DECAPOD	1
PROTOHAUSTORIUS DEICHMANNI	1
MONOCULODES EDWARDSI	1
SPIOPHANES BOMBIX	151
HIPPOMEDON SERRATUS	1
CANCER IPPOCRATUS	3
ECOTEA TRILOBIA	1

ITSE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
301	05/08/73	050	52		C4	4019 N	7340 W	41.6
. SPECIES 23		NO. INDIVIDUALS	417	DIVERSITY	0.9692	EQUITABILITY	0.3091	

SPECIES LISTING	COUNT
HAPLOSCOLOPLOS ROBUSTUS	1
CERTANTHUS AMERICANUS	6
RHYNCHOCOELA	3
ARICIDEA JEFFREYSII	1
PITAR MORRHUANA	3
TELLINA AGILIS	16
ECHINOIDEA	8
ASCIDIACEA	1
LUMBRINERIS TENUIS	1
NASSARIUS TRIVITTATUS	1
OLIGOCHAETA	3
PALAEMONETES INTERMEDIUS	1
CANCER IPPOCRATUS	1
AGLAOPHAMUS CIRCINATA	2
GLYCERA DIBRANCHIATA	7
TRAVISTIA CARNEA	7
SPIOPHANES BOMBIX	339
TAUTOGALARRUS ADSPERUS	1
PHORONIS ARCHITECTA	1
UNCIOLEA TREPORATA	1
THARYX ACUTUS	1
ASABELLIDES OCULATA	11
SPIOCHAETOPTERUS OCULATUS	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	051	53		C1	4019 N	7342 W	43.5
NO. SPECIES	20	NO. INDIVIDUALS	408	DIVERSITY	0.6252	EQUITABILITY	0.2087	

SPECIES LISTING	COUNT
MEDIOMASTUS AMRISSETAE	1
AGLADPHAMUS CIRCINATA	1
CRANGON SEPTEMSPINOSA	1
TELLINA AGILIS	1
ECHINARACHNIUS PARMA	1
PTILANTHURA TRICARINA	1
CANCER IRRORATUS	6
NUCULA PROXIMA	1
YOLCIA LIMATULA	1
TRAVISTIA CARNEA	2
ECCTEA TRILOBA	1
PITAR MORRHUANA	1
ASABELLIDES OCULATA	3
PHYLLODOCE ARENAE	2
GLYCERA DIBRANCHIATA	18
SPIOPHANES BOMBYX	361
RHYNCHOCOELA	2
CERTANTHUS AMERICANUS	2
TRAPYX ACUTUS	1
ASABELLIDES OCULATA	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	051	53		C2	4019 N	7342 W	43.5
NO. SPECIES	18	NO. INDIVIDUALS	442	DIVERSITY	0.6250	EQUITABILITY	0.2162	

SPECIES LISTING	COUNT
LUMBRINERIS TENUIS	1
NCTOCIRRUS SPINIFERUS	1
PAGURUS LONGICARPUS	1
CANCER IRRORATUS	2
EKSIS DIRECTUS	2
ASABELLIDES OCULATA	5
TRAPYX ACUTUS	8
PHYLLODOCE ARENAE	3
DRILONERIS LONGA	1
GLYCERA SP.	3
PALAEONETES INTERMEDIUS	1
SPIOPHANES BOMBYX	303
RHYNCHOCOELA	5
TRAVISTIA CARNEA	2
NEPHTYS BUCERA	1
PTILANTHURA TRICARINA	1
GLYCERA DIBRANCHIATA	10
CERTANTHUS AMERICANUS	1

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USE	DATE	STATION NUMBER CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
01	05/08/73	051	53	C3	4019 N	7342 W	43.5
SPECIES 21		NO. INDIVIDUALS	460	DIVERSITY 0.6808		EQUITABILITY 0.2236	

SPECIES LISTING	COUNT
PRIONOSPION STEENSTRUPI	1
SPIOPHANES BOMBYX	405
GLYCERA DIBRANCHIATA	14
THARYX ACUTUS	4
ASABELLIDES OCULATA	4
LUMBRINERIS TENUIS	3
CRANGON SEPTEMSPINOSA	1
CLIGOCCHAETA	2
STHENE LAIS LIMICOLA	1
NEMATODA	2
EDWARDSIA SIPUNCULOIDES	1
RHYNCHOCCELA	6
TRAVISTIA CARNEA	3
LUMBRINERIS FRAGILIS	3
NINOE NIGRIPES	1
HAPLOSCOLOPLOS ROBUSTUS	2
NUCULA PROXIMA	2
ETEONE LONGA	1
BIVALVE	1
DRILONEPES LONGA	1
PHYLLODOCE ARENAE	2

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	051 53	C4	4019 N	7342 W	43.5
D. SPECIES 22		NO. INDIVIDUALS	476	DIVERSITY 0.8270	EQUITABILITY 0.2676	

SPECIES LISTING	COUNT
TRAVISTA CARNEA	2
PRIONOSPIC MALMGRENI	1
REYNHOCCELA	6
YCLDIA LIMATULA	1
CRAGON SEPTENSPINCSA	1
ECHINARACHAIUS PARVA	1
DEDICEROTIDAE SP. 1	2
THARYX ACUTUS	11
CERTANTHUS AMERICANUS	1
SPIOPHANES BOMPYX	402
ARICIDEA JEFFREYSII	2
PARAONYX GRACILIS	1
MEDICMASTUS AMBISSETAE	17
SCOLELEPIS SQUAMATA	2
ASABELLIDES OCULATA	3
GLYCERA SP.	3
GLYCERA DIBRANCHIATA	16
BIVALVE	1
ENSIS DIRECTUS	1
LUMBRINERIS TENUIS	1
CANCER IRROCRATUS	2
PEREUSA AFFINIS	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	052	54	01	4019 N	7344 W	44.7	
C. SPECIES 20		NO. INDIVIDUALS		99	DIVERSITY 1.6918		EQUITABILITY 0.5647	

SPECIES LISTING	COUNT
UNCIOLA IRRORATA	1
CANCER IRRORATUS	4
NASSARIUS TRIVITTATUS	1
STHENELEIS LIMICOLA	1
DRILONERETS LONGA	1
LYONSTIA HYALINA	1
PROTODRILUS SYMBIOTICUS	1
PITAR MORRHUANA	1
ENSTIS DIRECTUS	1
YOLDAIA LIMATULA	1
MONOCULODES EDWARDSI	1
COPEPODA	1
SPIOPHANES BOMBYX	60
RHYNCHOCOELA	4
GLYCERA DIBRANCHIATA	8
LUMBRINERIS TENUIS	1
ASABELLIDES OCOLATA	6
THARYX ACUTUS	1
CLIGOCHEFTA	3
GLYCERA SP.	1

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	052	54	02	4019 N	7344 W	44.7	
NO. SPECIES 12		NO. INDIVIDUALS		153	DIVERSITY 0.7444		EQUITABILITY 0.2996	

SPECIES LISTING	COUNT
ECHINARACHNIUS PARMA	1
CANCER IRRORATUS	1
TRAVISTIA CARNEA	3
ACLAOPHAMUS CIRCINATA	1
LUMBRINERIS FRAGILIS	1
SPIOPHANES BOMBYX	163
GLYCERA SP.	6
RHYNCHOCOELA	3
SILIGUA COSTATA	1
EDWARDSIA SP.	1
THARYX ACUTUS	2
GLYCERA DIBRANCHIATA	10

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	052	54	C3	4019 N	7344 W	44.7
NO. SPECIES 14		NO. INDIVIDUALS 304		DIVERSITY 0.8257		EQUITABILITY 0.3129	

SPECIES LISTING	COUNT
RHYNCHOCOELA	3
THARYX ACUTUS	2
CLIGCHAETA	1
SPIOPHANES COMBYX	250
GLYCERA DIBRANCHIATA	17
TELLINA AGILIS	1
NUCULA PROXIMA	1
UNIO BIVALVE #2	1
ECHINARACHNIUS PARMA	8
CANCER IRROCRATUS	1
TRAVISIA CARNEA	11
STHENELETS LIMICOLA	1
ASABELLIDES OCULATA	1
PITAR MORRHUANA	6

CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
CRUISE	DATE	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	052	54	C4	4019 N	7344 W	44.7
NO. SPECIES 8		NO. INDIVIDUALS 32		DIVERSITY 1.7518		EQUITABILITY 0.8424	

SPECIES LISTING	COUNT
ASABELLIDES OCULATA	2
TRAVISIA CARNEA	3
GLYCERA SP.	13
GLYCERA DIBRANCHIATA	2
RHYNCHOCOELA	3
CERANTHUS AMERICANUS	1
UNIO BIVALVE #2	2
CANCER IRROCRATUS	6

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	053	55	C1	4019 N	7346 W	54.1
NO. SPECIES 29		NO. INDIVIDUALS 510		DIVERSITY 2.1278		EQUITABILITY 0.6319	

SPECIES LISTING	COUNT
EDWARDSIA SP.	1
RYNCHOCOLA	7
PCTAMILLA NEGLECTA	1
NINOE NIGRIPES	38
GLYCERA DIERANCHIATA	4
NEMATODA	50
TRARYX ACUTUS	2
NEPHTYS INCISA	10
MEDIONASTUS AMBISETAE	80
LUMBRINERIS TENUIS	2
PRIONOSPION MALMGRENI	91
ASABELLIDES OCULATA	1
AMPHARETE ARCTICA	1
CERTANTHUS AMERICANUS	5
POLYDORA LIGHT	1
SPIC FILICORNIS	7
HARMOTHOE EXTENUATA	2
SPIOPHANES BOMBYX	14
CAPITELLA CAPITATA	1
CANCER IRROCRATUS	2
NUCULA PROXIMA	169
PFERUSA AFFINIS	1
GLYCERA SP.	3
UNICOLA IRROCRATA	6
UNID BIVALVE #2	1
PITAR MORRHUANA	6
CERASTODERMA PINNULATUM	1
PHOTIS SP.	2
PHORONIS ARCHITECTA	1

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	054	56	01	4019 N	7348 W	77.0
NO. SPECIES 32		NO. INDIVIDUALS 865		DIVERSITY 2.4153		EQUITABILITY 0.6969	

SPECIES LISTING	COUNT
PARAONIS GRACILIS	23
MONOCULODES EDWARDSI	1
ECOTEA TRILOBA	10
PALAEONETES INTERMEDIUS	1
RHOCHINE LOVENI	1
ETECNE LONGA	4
HARMOTHOE IMBRICATA	1
NUCULA PROXIMA	167
ASABELLIDES OCULATA	1
APICIDEA JEFFREYSII	1
SFIC FILICORNIS	2
MEDIOMASTUS AMBISSETAE	140
THARYX MARICNI	2
THYONE SP.	51
YOLCIA LIMATULA	6
TELLINA AGILIS	5
ORCHOMENELLA MINUTA	3
NINCE NIGRIPES	19
CESSURA LONGICIRRATA	25
PARAONIS FULGENS	1
LUMBRINERIS TENUIS	11
LUMBRINERIS FRAGILIS	7
THARYX ACUTUS	177
POLYCIPIRUS SP.	1
STENOPLEUSTES INERMIS	8
PETAMILLA NEGLECTA	108
PRIONOSPION MALMGRENI	34
EDWARDSIA SP.	1
DRILONERIS LONGA	2
NEPHTYS BUCERA	11
PERUSA AFFINIS	26
CERIANTHUS AMERICANUS	15

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	054 56	02	4019 N	7348 W	77.0
NO. SPECIES 32		NO. INDIVIDUALS 1878		DIVERSITY 1.6588	EQUITABILITY 0.4786	

SPECIES LISTING	COUNT
NINOE NIGRIPES	61
PERUSA AFFINIS	21
ETEONE LONGA	6
THARYX ACUTUS	175
POLYDORA LIGNI	3
EDWARDSTA SP.	4
CERTANTHUS AMERICANUS	23
PRICNOSPIO MALMGRENI	17
ASABELLICES OCULATA	1
ARTICIDEA JEFFREYSII	1
COSSURA LONGOCIRRATA	108
MALDANOPSIS ELONGATA	1
HARTMANTA MOOREI	5
POTAMILLA NEGLECTA	22
DRILONERIS LONGA	7
RHOCHNE LOVENT	2
LUMBRINERIS TENUIS	24
NEPHTYS INCISA	9
MEDIDMASTUS AMBISETAE	1113
YOLDA LIMATULA	2
NUCULA PROXIMA	14
THYONE SP.	3
NUCULA DELPHINODONTA	30
PHORONIS ARCHITECTA	2
CLIGOCHAETA	2
PAPADONIS GRACILIS	167
COPEPODA	1
RYNCHOCCELA	37
CANCER PROCRAIUS	3
STENOPLEUSTES INERMIS	2
FOCTEA TRILOBA	1
SPIOPHANES BOMBIX	1

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CRUISE	DATE	STATION NUMBER CRUISE SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	054 56	C3	4019 N	7348 W	77.0
NO. SPECIES 35		NO. INDIVIDUALS 1707		DIVERSITY 1.4997		EQUITABILITY 0.42

SPECIES LISTING	COUNT
MEDUSASTUS AMBISETAE	1137
CAPITELLA CAPITATA	2
PHOLOE MINUTA	1
HARTMANIA MCGREI	2
PHERUSA AFFINIS	37
STENOPLEUSTES INERMIS	2
CANCER IRRCRATUS	3
SPIOPHANES BOMBYX	2
PCTAMILLA NEGLECTA	104
COSSURA LONGOCCIPRATA	13
THARYX ACUTUS	107
AMPHARETE ARCTICA	1
DRILONERIS LONGA	23
NINOE NIGRIPES	42
LUMBRINERIS TENUIS	1
PHOSONIS ARCHITECTA	1
THYONE SP.	11
UNIO BIVALVE #2	2
RHYNCHOCODELA	58
NUCULA DELPHINOCENTA	1
NEREIS GRAYI	1
NEMATODA	2
MONOCULODES INTERMEDIUS	1
POLYCIRRUS PHOSPHOREUS	4
ARICIDEA JEFFREYSTI	1
NEPHTYS INCISA	10
PARANIS GRACILIS	22
ETEONE LONGA	8
DIASTYLIS SCULPTA	1
LUMBRINERIS FRAGILIS	20
CERIANTHUS AMERICANUS	18
SPIO FILICORNIS	1
HARMOTHOE EXTENUATA	1
PRICNOSPID MALMGRENT	63
EDWARDSIA SP.	4

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STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
054	054	56	04	4019 N	7348 W	77.0

CASE 01 DATE 05/08/73
 SPECIES 31 NO. INDIVIDUALS 1386 DIVERSITY 1.1833 EQUITABILITY 0.3446

SPECIES LISTING	COUNT
RHYNCHOCOLA	19
THARYX ANNULOSUS	17
NINOE NIGRIPES	11
LUMBRINERIS TENUIS	2
MEDIOMASTUS AMBISSETAE	1038
CERIANTHUS AMERICANUS	24
STENOPLUSTES INERMIS	3
ORCHOMENELLA PINGUS	2
PITAR MORRHUANA	1
PHOTIS SP.	1
CESSURA LONGICIRRATA	3
HARTMANIA MCCREI	1
POTAMILLA NEGLECTA	24
CAPITELLA CAPITATA	1
NEMATODA	22
NASSARIUS TRIVITTATUS	2
ECOTEA TRILCBA	1
SCALIBREGMA INFLATUM	1
PERUSA AFFINIS	110
MALDANOPSIS ELONGATA	1
THARYX ACUTUS	12
PRIONOSPIO MALMGRENI	5
PARAONIS GRACILIS	43
APHRODITA HASTATA	1
DRILONEREIS LONGA	11
RHOPIE LOVENT	1
NEPHTYS INCISA	2
THYONE SP.	22
UNIO BIVALVE #2	1
CUCUMARIA SP.	3
NUCULA PROXIMA	1

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UTSE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
301	05/08/73	055	57		C1	4019 N	7350 W	47.7
• SPECIES 22		NO. INDIVIDUALS	181	DIVERSITY	1.6269	EQUITABILITY	0.5263	

SPECIES LISTING	COUNT
CANCER IPPORATUS	2
PRIONOSPID MALMGRENI	1
ENSIS DIRECTUS	2
APTICIDEA JEFFREYSII	1
ECHINARACHNIUS PARMA	1
DRILONERIS LONGA	1
LUMBRINERIS TENUIS	4
PRODRILUS SYMBIOTICUS	17
TELLINA AGILIS	1
LUMBRINERIS ACUTA	3
LUMBRINERIS FRAGILIS	1
GLYCERA SP.	1
NEPHTYS BUCERA	1
SPIROPHANES EOMBYX	22
THARYX ACUTUS	1
GLYCERA DIBRANCHIATA	3
HARMOTHE EXTENUATA	2
CERTANTHUS AMERICANUS	4
RYNCHOCOELE	2
UNCIOLEA IPPORATA	108
ASTERIAS FORBESII	1
HEMIPODUS ARMATUS	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	05/08/73	056	58		01	40 19 N	73 52 W	37.4
NO. SPECIES 27		NO. INDIVIDUALS 357		DIVERSITY 2.0276		EQUITABILITY 0.6152		

SPECIES LISTING	COUNT
SPIROPHANES COMBYX	71
APICIDEA JEFFREYSII	4
THARYX ACUTUS	166
DRILONERFIS LONGA	1
LUMBRINERIS TENUIS	3
NEMATODA	1
NEPHTYS BUCERA	7
TRICHOPOXUS EPISTOMUS	1
PSEUDUNCIOLA OBLIQUA	14
ECOTEA TRILORA	1
SPIC FILICORNIS	19
HARMOTHOE EXTENUATA	3
SCOLELPPIS SQUAMATA	1
PRIONOSPION MALMGRENI	2
HEMIPODIUS ARMATUS	2
STAURONERFIS CAFCUS	2
UNCIOLA IRORATA	3
TRAVISIA CARNEA	1
HAPLOSCOLEPLOS ROBUSTUS	2
LUMBRINERIS FRAGILIS	6
OLIGOCHAETA	2
PROTODRILUS SYMBIOTICUS	49
GLYCERA DIFRANCHIATA	4
SPISULA SOLIDISSIMA	2
TELLINA AGILIS	3
CANCER IRORATUS	3
ASCIDIACEA	25

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CRUISE	DATE	STATION NUMBER CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	056	58	02	4019 N	7352 W	37.4
C. SPECIES 20		NO. INDIVIDUALS	219	DIVERSITY	1.6028	EQUITABILITY	0.5350

SPECIES LISTING	COUNT
ARICIDEA JEFFREYSII	2
ELSYLLIS BLOMSTRANDI	1
EXCOGONE HERES	1
THARYX ACUTUS	130
PROTODRILUS SYMBIOTICUS	23
HARMOTHOE EXTENUATA	2
SPIC FILICORNIS	1
GLYCERA DIBRANCHIATA	5
HEMIPODUS ARMATUS	12
LUMBRINERIS TENUIS	4
LUMBRINERIS FRAGILIS	8
LUMBRINERIS ACUTA	1
THARYX MARIONI	3
CANCER IRROCRATUS	2
ECHINOIDEA	1
ASTARTE CASTANEA	1
UNCIOLA IRROCRATA	3
CERTANTHUS AMERICANUS	3
NEMATODA	2
NEPHTYS BUCERA	4

CRUISE	DATE	STATION NUMBER CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	056	58	03	4019 N	7352 W	37.4
C. SPECIES 19		NO. INDIVIDUALS	143	DIVERSITY	2.2027	EQUITABILITY	0.7481

SPECIES LISTING	COUNT
THARYX ACUTUS	24
ASCIDIACEA	10
CIRCLANA CONCHARUM	2
LEPTOCUMA MINOR	1
CANCER IRROCRATUS	2
TELLINA AGILIS	1
LUMBRINERIS TENUIS	5
CERTANTHUS AMERICANUS	5
UNCIOLA IRROCRATA	2
LUMBRINERIS FRAGILIS	3
LUMBRINERIS ACUTA	1
ARICIDEA JEFFREYSII	4
GLYCERA DIBRANCHIATA	1
PROTODRILUS SYMBIOTICUS	22
RHYNCHOCCELA	1
HEMIPODUS ARMATUS	46
PERUSA AFFINIS	1
NEPHTYS BUCERA	4
NEMATODA	8

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
1301	05/08/73	056	58	C4	4019 N	7352 W	37.4
1. SPECIES 16		NO. INDIVIDUALS		107	DIVERSITY 1.7717		EQUITABILITY 0.6390

SPECIES LISTING	COUNT
LUMBRINERIS ACUTA	1
NEPHTYS BUCERA	2
ARICIDEA JEFFREYSII	1
HARMOTHOE EXTENUATA	1
PARAPIDNOSYLLIS LONGICIRRATA	1
UNCIOLA IRRODATA	2
GLYCERA SP.	2
TERYX ACUTUS	56
PROTODRILUS SYMBIOTICUS	16
OLIGOCHAETA	1
CRANGON SEPTEMSPINOSA	2
GLYCERA DIERANCHIATA	6
HEMIPODUS ARMATUS	5
LUMBRINERIS FRAGILIS	4
SPIC FILICORNIS	1
LUMBRINERIS TENUIS	6

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UISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
201	05/08/73	057	59	01	4019 N	7354 W	35.6	
1. SPECIES 19		NO. INDIVIDUALS	110	DIVERSITY	2.1469	EQUITABILITY	0.7291	

SPECIES LISTING	COUNT
ECOTEA TRILOBA	1
OLIGOCHEATA	5
PROTODRILUS SYMBIOTICUS	31
UNCTOLA IRRCRATA	1
PHERUSA AFFINIS	3
THARYX ACUTUS	35
NUCULA PROXIMA	3
ASTARTE CASTANEA	1
POLYCIRRUS PHOSPHOREUS	1
LUMBRINERIS TENUIS	1
ARICIDEA JEFFREYSII	4
LUMBRINERIS FRAGILIS	6
RHYNCHOCCELA	1
PRIONOSPION MALMGRENI	4
CERIANTHUS AMERICANUS	3
PHOXOCEPHALUS HOLBOLLI	1
SPIC FILICORNIS	3
PITAR MORRHUANA	2
GLYCERA DI BRANCHIATA	4

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	CRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	058	6C		C1	4019 N	7356 W	27.3
NO. SPECIES	26	NO. INDIVIDUALS	133	DIVERSITY	2.8582	EQUITABILITY	0.8773	

SPECIES LISTING	COUNT
TRICHOPODUS EPISTOMUS	10
TELLINA AGILIS	20
CHIRIDOTEA TUFTSI	6
UNCIOLOA IRRCRATA	12
PSEUDUNCIOLOA OBLIQUA	10
ARPELISCA VADORUM	4
ASTERIAS FORBESII	1
ENSIS DIRECTUS	2
NUCULA PROXIMA	2
NASSARIUS TRIVITTATUS	1
ECOTEA TRILEBA	3
NEOMYSIS AMERICANA	6
CANCER IRRORATUS	5
PAGURUS LONGICARPUS	1
GLYCERA DIPRANCIATA	1
CRANGON SEPTEMSPINOSA	7
THARYX ACUTUS	17
SCOLELEPIS SQUAMATA	1
NEPHTYS PICTA	3
SPIGULA SOLIDISSIMA	3
TRAVISTIA CARNEA	4
PEXOCERPHALUS HOLBOLLI	2
HETERODUS ARMATUS	1
STREPELATS LIMICOLA	1
PROTOHAUSTORIUS WIGLEYI	8
MYTILUS FOLLIS	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	05/08/73	058	60	02	4019 N	7356 W	27.3	
NO. SPECIES	25	NO. INDIVIDUALS	102	DIVERSITY	2.7042	FOUITABILITY	0.8401	

SPECIES LISTING	COUNT
PHERUSA AFFINIS	1
NEPHTYS BUCERA	1
PECTODRILUS SYMBIOTICUS	3
CHIRIDCTEA TUFTSI	2
NEMATODA	1
UNCYOLA IRROCRATA	14
PHOXOCEPHALLUS HOLBOLLI	6
TEARYX ACUTUS	10
AMPELISCA VADORUM	18
CANCER IRROCRATUS	8
LEPTOCUMA MINOR	1
PHYLLODOCE ARENAE	3
TEARYX MARICNT	2
DIASYLIS QUADRISPINOSA	1
ECOTEA TRILOBA	1
ENSIS DIRECTUS	1
TELLINA AGILIS	8
ASTERIAS FORBESII	1
PITAR MORRHUANA	1
MYTILUS EDULIS	11
SPIOPHANES EMBRYX	2
PROTOHAUSTORIUS WIGLEYI	1
TRICHOPOXUS EPISTOMUS	2
PARANAITIS KESTERIENSIS	1
PELYDORA LIGNI	2

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	058	60		C3	4019 N	7356 W	27.3
NO. SPECIES 20		NO. INDIVIDUALS 136		DIVERSITY 2.2535		EQUITABILITY 0.7523		

SPECIES LISTING	COUNT
MAGFLONA ROSEA	1
PHERUSA AFFINIS	2
NEPHTYS BUCERA	3
SPIOPHANES BOMBYX	43
CANCER IRROCRATUS	3
LEPTOCUMA MINOR	1
ARICIDEA JEFFREYSII	1
THARYX ACUTUS	5
CHIRIDOTEA TUFTSI	1
CLIGOCHEATA	1
EDOTEA TRILOBA	2
THARYX MARIONI	4
NUCULA PROXIMA	2
PSEUDUNCIOCLA OBLIQUA	15
PROTOHAUSTORIUS WIGLEYI	26
TRICHOPOXUS EPISTOMUS	5
RYNCHOCOELA	3
SPISULA SOLIDISSIMA	1
UNCIOCLA IRROCRATA	4
TELLINA AGILIS	13

CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	058	60		C4	4019 N	7356 W	27.3
NO. SPECIES 18		NO. INDIVIDUALS 39		DIVERSITY 2.4438		EQUITABILITY 0.8455		

SPECIES LISTING	COUNT
RYNCHOCOELA	1
CANCER IRROCRATUS	2
UNCIOCLA IRROCRATA	1
ORBINIA SWANI	1
SPIOPHANES BOMBYX	2
STAURONEREIS CAECUS	1
EXOGDNE FEBES	1
ARICIDEA JEFFREYSII	1
LEPTOCUMA MINOR	1
CRANGON SEPTENSPINOSA	1
TELLINA AGILIS	5
NEOMYSTIS AMERICANA	1
LUMBRINERIS FRAGILIS	1
NEPHTYS BUCERA	4
PROTOHAUSTORIUS WIGLEYI	1
TRICHOPOXUS EPISTOMUS	1
PSEUDUNCIOCLA OBLIQUA	12
THARYX ACUTUS	2

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CRUISE	DATE	STATION NUMBER		CRAB	LATITUDE	LONGITUDE	DEPTH METERS
7301	05/08/73	059	61	01	4019 N	7358 W	19.7
C. SPECIES 13		NO. INDIVIDUALS		88	DIVERSITY 1.9002		EQUITABILITY 0.7408

SPECIES LISTING	COUNT
ARICIDEA JEFFREYSII	1
SCOLELEPTIS SQUAMATA	2
TRAPYX ACUTUS	11
PARANIS LYRA	1
ASTARTE CASTANEA	1
TELLINA AGILIS	8
LEPTOCHELIA SAVIGNYI	8
PSEUDUNCITOLA OBLIQUUA	2
NECMYSIS AMERICANA	1
PROTODRILUS SYMBIOTICUS	36
ECOTEA TRILCBA	1
HEMIPODIUS ARMATUS	12
NEPHTYS BUCERA	4

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	05/08/73	060	62	CI	4016 N	7358 W	23.4
NO. SPECIES 12		NO. INDIVIDUALS		31	DIVERSITY 1.9291		EQUITABILITY 0.7763

SPECIES LISTING	COUNT
SIGALION ARENICCLA	1
LUMBRINERIS FRAGILIS	1
TELLINA AGILIS	1
CRANGON SEPTEMSPINOSA	1
LEPTOCHELIA SAVIGNYI	2
NEOMYSIS AMERICANA	1
RHYNCHOCCELA	2
PROCHAETORNIUS WIGLEYI	4
ECHINARACHAIUS PARMA	1
ASTARTE CASTANEA	1
HEMIPODUS ARMATUS	14
NEPHTYS BUCERA	2

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CRUISE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	061	63	C1	4016 N	7356 W	26.4
NO. SPECIES 13		NO. INDIVIDUALS 33		DIVERSITY 2.2732		EQUITABILITY 0.8863	

SPECIES LISTING	COUNT
HEMIPODUS ARMATUS	3
NEPHTYS BUCERA	3
LUMBRINERIS FRAGILIS	2
LUMBRINERIS ACUTA	3
PROTODRILUS SYMBIOTICUS	1
PSEUDONCTOLA OBLIQUA	3
ASTARTE CASTANEA	1
PECTONHAUSTORIUS WIGLEYI	10
CREMELLA GLANDULA	1
NEOMYSIS AMERICANA	2
SCOLELEPIS SQUAMATA	2
SPIOPHANES COMBYX	1
TERYX ACUTUS	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
17301	05/08/73	062	64	01	4016 N	7354 W	34.9	
NO. SPECIES	23	NO. INDIVIDUALS	56	DIVERSITY	2.6981	EQUITABILITY	0.9605	

SPECIES LISTING	COUNT
LUMBRINERIS FRAGILIS	2
PRIONOSPID MALMGRENI	1
NEPHTYS BUCERA	3
SIGALION ARENICOLA	1
LEPTOCUMA MINOR	2
CRANGON SEPTEMSPINOSA	1
ENSIS DIRECTUS	1
TELLINA AGILIS	1
ECOTEA TRILoba	1
PROTOHAUSTORIUS WIGLEYI	15
SCOLOPLOS FRAGILIS	2
LUMBRINERIS ACUTA	5
GLYCERA DIERANCHIATA	1
CERTANTHUS AMERICANUS	2
CTENOPHORA	1
LEPTOCHEILTA SAVIGNYI	1
UNCIOLA IRRCRATA	2
TRICHOPEXUS EPISTOMUS	6
SPIOPHANES BOMBYX	2
ARICIDEA JEFFREYSII	3
LEIDICHONE DISPAR	1
THARYX MARICNI	1
THARYX ACUTUS	1

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CRUISE	DATE	STATION NUMBER	CRUISE	SYMAP	GRAB	LATITUDE	LONGITUDE	DEPTH METERS
A7301	05/08/73	063	65		01	4016 N	7352 W	42.6
NO. SPECIES 24		NO. INDIVIDUALS 172		DIVERSITY 1.5046		EQUITABILITY 0.47		

SPECIES LISTING	COUNT
NEPHTYS PICTA	1
NEPHTYS BUCERA	1
HEMIPODUS ARMATUS	1
CRENELLA GLANDULA	8
LEPTOCUMA MINOR	1
CRANGON SEPTEMSPINOSA	3
CANCER IRROCRATUS	12
CERTANTHUS AMERICANUS	1
TELLINA AGILIS	1
GLYCERA DITERANCHIATA	2
PSEUDUNCIOCLA OBLIQUUA	2
LUMBRINERIS TENUIS	2
SIGALION ARENICCLA	1
SPIOPHANES BOMBYX	117
NUCULA PROXIMA	1
POLYCIRRUS PHOSPHOREUS	1
SCOLELEPIS SQUAMATA	2
ASCIDIACEA	3
TRAVISIA CARNEA	1
LUMBRINERIS FRAGILIS	5
THARYX ACUTUS	1
PROTOHAUSTORIUS WIGLEYI	2
ARICIDEA JEFFREYSII	2
LUMBRINERIS ACUTA	1

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SE	DATE	STATION NUMBER		GRAB	LATITUDE	LONGITUDE	DEPTH
L	06/08/73	CRUISE	SYMAP	CI	4016 N	7350 W	METERS
		064	6E				46.5

SPECIES 29 NO. INDIVIDUALS 186 DIVERSITY 2.5361 EQUITABILITY 0.7531

SPECIES LISTING	COUNT
NEMATODA	2
LUMBRINERIS FRAGILIS	7
MYTILUS EDULIS	2
PAGURUS LONGICARPUS	1
VENERICARDIA BOREALIS	1
NICULA PROXIMA	5
OPHIUROIDEA	1
THARYX ANNULOSUS	1
THARYX MARICNT	2
THARYX ACUTUS	59
AMPHARETE ARCTICA	1
NEREIS GRAYI	2
SPIO FILICORNIS	2
HARMOTHOE EXTENUATA	5
AEGININA LONGICORNIS	2
CERASTODERMA PINNULATUM	8
PRIONOSPIO MALMGRENI	14
POTAMILLA NEGLECTA	1
CRANGON SEPTEMSPINOSA	1
UNICOLA IRRORATA	7
PECXCOPHALUS HOLBOLLI	1
GLYCERA DIPRANCHIATA	1
NINOE NIGRIPES	13
AGLAPHAMUS CIRCINATA	1
CANCER IRRORATUS	9
RYACHOCCELA	1
LUMBRINERIS TENUIS	22
MECIDOMASTUS AMBISETAE	13
NICOLEA VENUSTULA	1

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Environmental Research LABORATORIES

The mission of the Environmental Research Laboratories is to study the oceans, inland waters, the lower and upper atmosphere, the space environment, and the Earth, in search of the understanding needed to provide more useful services in improving man's prospects for survival as influenced by the physical environment. The following laboratories contribute to this mission.

MESA	<i>Marine EcoSystems Analysis Program Office</i> . Plans and coordinates regional programs of basic and applied research directed toward the solution of environmental problems which involve the functioning, health and restoration of marine ecosystems.	GLERL	<i>Great Lakes Environmental Research Laboratory</i> . Research areas include: physical, chemical, and biological limnology, lake-air interactions, lake hydrology, lake level forecasting, and lake ice studies (Ann Arbor, Michigan).
OCSEA	<i>Outer Continental Shelf Environmental Assessment Program Office</i> . Plans and directs assessments of the primary environmental impact of energy development along broad areas of the outer continental shelf of the United States; coordinates related research activities of federal, state and private institutions.	GFDL	<i>Geophysical Fluid Dynamics Laboratory</i> . Research areas include: dynamics and physics of geophysical fluid systems, development of a theoretical basis, through mathematical modeling and computer simulation, for the behavior and properties of the atmosphere and the oceans (Princeton, New Jersey).
W/M	<i>Weather Modification Program Office</i> . Plans and directs ERL weather modification research for precipitation enhancement and severe storms mitigation; operates ERL's research aircraft.	APCL	<i>Atmospheric Physics and Chemistry Laboratory</i> . Research areas include: processes of cloud and precipitation physics; chemical composition and nucleating substances in the lower atmosphere; laboratory and field experiments toward developing feasible methods of weather modification.
NHEML	<i>National Hurricane and Experimental Meteorology Laboratory</i> . Develops techniques for more effective understanding and forecasting of tropical weather. Research areas include: hurricanes and tropical cumulus systems; experimental methods for their beneficial modification.	NSSL	<i>National Severe Storms Laboratory</i> . Research is directed toward improved methods of predicting and detecting tornadoes, squall lines, thunderstorms, and other severe local convective phenomena (Norman, Oklahoma).
RFC	<i>Research Facilities Center</i> . Provides aircraft and related instrumentation for environmental research programs. Maintains liaison with user and provides required operations or measurement tools, logged data, and related information for airborne or selected surface research programs.	WPL	<i>Wave Propagation Laboratory</i> . Research areas include: theoretical research on radio waves, optical waves, and acoustic gravity waves; experimental research and development on new forms of remote sensing.
(CIRES)	<i>Theoretical Studies Group</i> . Provides NOAA participation in the Cooperative Institute for Research in Environmental Sciences (CIRES), a joint activity with the University of Colorado. Conducts cooperative research studies of a theoretical nature on environmental problems.	ARL	<i>Air Resources Laboratories</i> . Research areas include: diffusion, transport, and dissipation of atmospheric contaminants, development of methods for prediction and control of atmospheric pollution, geophysical monitoring for climatic change (Silver Spring, Maryland).
AOML	<i>Atlantic Oceanographic and Meteorological Laboratories</i> . Research areas include: geology and geophysics of ocean basins and borders, oceanic processes, sea-air interactions and remote sensing of ocean processes and characteristics (Miami, Florida).	AL	<i>Aeronomy Laboratory</i> . Research areas include: theoretical, laboratory, rocket, and satellite studies of the physical and chemical processes controlling the ionosphere and exosphere of the Earth and other planets, and of the dynamics of their interactions with high-altitude meteorology.
PMEL	<i>Pacific Marine Environmental Laboratory</i> . Research areas include: environmental processes with emphasis on monitoring and predicting the effects of man's activities on estuarine, coastal, and near-shore marine processes (Seattle, Washington).	SEL	<i>Space Environment Laboratory</i> . Research areas include: solar-terrestrial physics, service and technique development in the areas of environmental monitoring and forecasting.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

BOULDER, COLORADO 80302