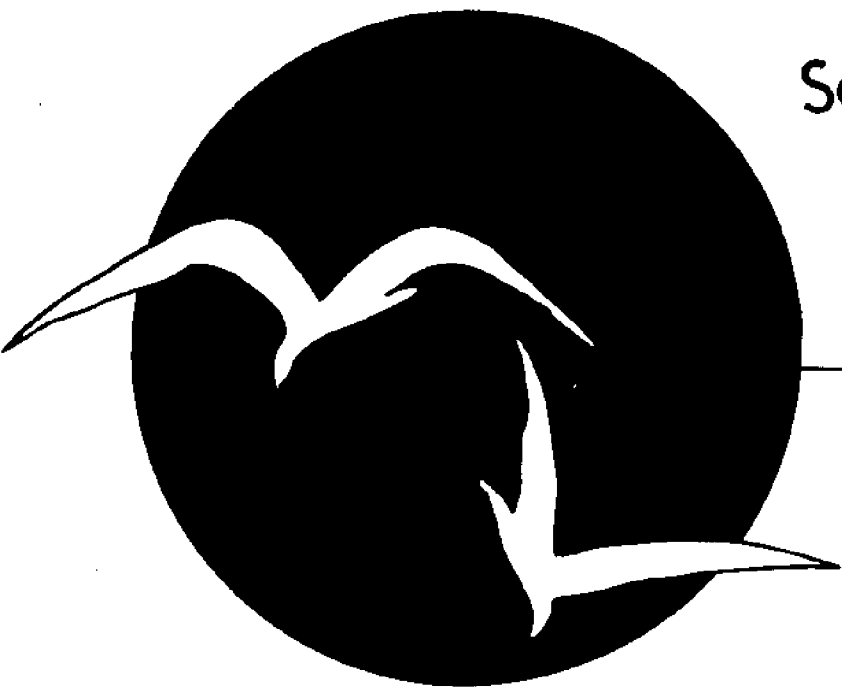


CIRCULATING COPY
Sea Grant Depository
*Moss
Landing*

*Marine
Laboratories*



Technical Publication 73-8

A QUANTITATIVE SURVEY OF THE BENTHIC INFAUNA
OF NORTHERN MONTEREY BAY, CALIFORNIA

Final Summary Data Report for
August 1971 through February 1973

Annual Report, Part 8, 1973

by

Alfred T. Hodgson and James W. Nybakken

A NATIONAL SEA GRANT PROJECT
supported by the
OFFICE OF SEA GRANT PROGRAMS
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
DEPARTMENT OF COMMERCE
Grant No. SGP2-94

Robert E. Arnal, Sea Grant Project Coordinator

Moss Landing Marine Laboratories
of the
California State University and Colleges
at
Fresno, Hayward, Sacramento, San Francisco, San Jose, and Stanislaus

Contributions from the Moss Landing Marine Laboratories No. 40
Technical Publications 73-8
CASUC-MLML-TP-73-08

**A QUANTITATIVE SURVEY OF THE BENTHIC INFAUNA
OF NORTHERN MONTEREY BAY, CALIFORNIA**

**Final Summary Data Report for
August 1971 through February 1973**

by

Alfred T. Hodgson

and

James W. Nybakken

1973

**Moss Landing Marine Laboratories
of the
California State University and Colleges
at
Fresno, Hayward, Sacramento, San Francisco, San Jose, and Stanislaus**

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
SCIENTIFIC PERSONNEL	2
ACKNOWLEDGEMENTS	3
METHODS AND MATERIALS	5
Choice of Stations	5
Navigation	6
Number of Replicate Samples	9
Performance of the Smith-McIntyre Grab	11
Sieve Mesh Size	19
Sampling Procedures	21
Sampling Dates	22
Sorting and Identification of the Fauna	22
Sediment Particle Size Analysis	23
EXPLANATION OF DATA TABLES AND FIGURES	24
REFERENCES	31

LIST OF TABLES

		<u>Page</u>
Table 1	Locations and depths of the benthos stations.	6
Table 2	Volume of sediment in the grab samples.	12
Table 3	Number of species and individuals obtained with a 1.0 mm mesh screen and the 1.0 plus 0.5 mm mesh screen	20
Table 4	Mean percent weight of sediment fractions	27
Table 5 - Table 70	Major classes and species of organisms	
Table 5	Station 1105,	21 Aug 1971 32
Table 6	Station 1154,	20 Aug 1971 34
Table 7	Station 1153,	13 Oct 1971 36
Table 8	Station 1159,	20 Aug 1971 38
Table 9	Station 1158,	20 Aug 1971 41
Table 10	Station 1177,	21 Aug 1971 43
Table 11	Station 1175,	21 Aug 1971 45
Table 12	Station 1156,	21 Aug 1971 47
Table 13	Station 1152,	20 Aug 1971 50
Table 14	Station 1176,	13 Oct 1971 53
Table 15	Station 1105,	10 Nov 1971 56
Table 16	Station 1154,	10 Nov 1971 58
Table 17	Station 1153,	24 Nov 1971 60
Table 18	Station 1159,	10 Nov 1971 62
Table 19	Station 1158,	10 Nov 1971 64
Table 20	Station 1177,	24 Nov 1971 66
Table 21	Station 1175,	10 Nov 1971 68
Table 22	Station 1156,	10 Nov 1971 70
Table 23	Station 1152,	24 Nov 1971 72
Table 24	Station 1176,	24 Nov 1971 74
Table 25	Station 1155,	24 Nov 1971 76
Table 26	Station 1105,	2 Feb 1972 79
Table 27	Station 1154,	2 Feb 1972 81
Table 28	Station 1153,	3 Feb 1972 83
Table 29	Station 1159,	2 Feb 1972 85
Table 30	Station 1158,	2 Feb 1972 87
Table 31	Station 1177,	3 Feb 1972 89
Table 32	Station 1175,	3 Feb 1972 91
Table 33	Station 1165,	2 Feb 1972 93
Table 34	Station 1152,	3 Feb 1972 95
Table 35	Station 1176,	3 Feb 1972 97
Table 36	Station 1155,	2 Feb 1972 99
Table 37	Station 1105,	3 May 1972 102

			<u>Page</u>
Table 38	Station 1154,	3 May 1972	104
Table 39	Station 1153,	10 May 1972	106
Table 40	Station 1159,	3 May 1972	108
Table 41	Station 1158,	3 May 1972	111
Table 42	Station 1177,	10 May 1972	113
Table 43	Station 1175,	10 May 1972	115
Table 44	Station 1156,	3 May 1972	118
Table 45	Station 1152,	10 May 1972	121
Table 46	Station 1176,	10 May 1972	124
Table 47	Station 1155,	3 May 1972	127
Table 48	Station 1105,	22 Aug 1972	129
Table 49	Station 1154,	22 Aug 1972	131
Table 50	Station 1153,	23 Aug 1972	133
Table 51	Station 1159,	22 Aug 1972	135
Table 52	Station 1158,	22 Aug 1972	138
Table 53	Station 1177,	23 Aug 1972	140
Table 54	Station 1175,	23 Aug 1972	142
Table 55	Station 1156,	22 Aug 1972	144
Table 56	Station 1152,	23 Aug 1972	146
Table 57	Station 1176,	23 Aug 1972	148
Table 58	Station 1155,	22 Aug 1972	150
Table 59	Station 1105,	17 Nov 1972	153
Table 60	Station 1154,	17 Nov 1972	155
Table 61	Station 1153,	18 Nov 1972	157
Table 62	Station 1159,	17 Nov 1972	159
Table 63	Station 1158,	17 Nov 1972	161
Table 64	Station 1177,	18 Nov 1972	163
Table 65	Station 1175,	17 Nov 1972	165
Table 66	Station 1156,	17 Nov 1972	167
Table 67	Station 1152,	18 Nov 1972	169
Table 68	Station 1176,	18 Nov 1972	171
Table 69	Station 1155,	17 Nov 1972	173
Table 70	Station 1105,	28 Feb 1973	175

Table 71	Taxonomic list, showing the distributions of all genera and species collected.	213
----------	---	-----

LIST OF FIGURES

	<u>Page</u>
Figure 1 Northern Monterey Bay, showing the locations of the benthos stations	7
Figure 2 The number of species added versus increased sampling area, for three stations	10
Figure 3 Average coefficient of variation of mean sediment volumes in replicate grab samples	18
Figure 4 Average volume of mean sediment in replicate grab samples.	18
Figure 5 Mean percent weight of the sand fraction of the sediment by station.	28
Figure 6 Mean percent weight of the clay fraction of the sediment by station.	29
Figure 7 - Figure 12 Total number of species of total fauna and mean number of individuals of total fauna per 0.1 m ² , by station	
Figure 7 August - October 1971	177
Figure 8 November 1971.	178
Figure 9 February 1972.	179
Figure 10 May 1972	180
Figure 11 August 1972.	181
Figure 12 November 1972.	182
Figure 13 - Figure 18 Total number of species of Polychaeta and mean number of individuals of Polychaeta per 0.1 m ² , by station	
Figure 13 August - October 1971.	183
Figure 14 November 1971.	184
Figure 15 February 1972.	185
Figure 16 May 1972	186
Figure 17 August 1972.	187
Figure 18 November 1972.	188
Figure 19 - Figure 24 Total number of species of Gastropoda and mean number of individuals of Gastropoda per 0.1 m ² , by station	
Figure 19 August - October 1971.	189
Figure 20 November 1971.	190

Figure 21	February 1972.	191
Figure 22	May 1972	192
Figure 23	August 1972.	193
Figure 24	November 1972.	194

Figure 25 - Figure 29 Total number of species of Bivalvia
and mean number of individuals of Bivalvia per
0.1 m², by station

Figure 25	August - October 1971.	195
Figure 26	November 1971.	196
Figure 27	February 1972.	197
Figure 28	May 1972	198
Figure 29	August 1972.	199

Figure 30 - Figure 35 Total number of species of Crustacea
and mean number of individuals of Crustacea per
0.1 m², by station

Figure 30	August - October 1971.	200
Figure 31	November 1971.	201
Figure 32	February 1972.	202
Figure 33	May 1972	203
Figure 34	August 1972.	204
Figure 35	November 1972.	205

Figure 36 - Figure 41 Total number of species of Ophiuroidea
and mean number of individuals of Ophiuroidea per
0.1 m², by station.

Figure 36	August - October 1971.	206
Figure 37	November 1971.	207
Figure 38	February 1972.	208
Figure 39	May 1972	209
Figure 40	August 1972.	210
Figure 41	November 1972.	211

Figure 42 Percent composition of the numbers of individuals
comprising the major components of the fauna at
the eleven stations, August 1971 - August 1972. 212

INTRODUCTION

In July 1970, Moss Landing Marine Laboratories began a limited qualitative survey of the benthic infauna at several shallow water stations in northern Monterey Bay to gather baseline information on the species composition of the benthic communities. Based on the experience and the data obtained during this investigation, a more extensive study was initiated in August 1971. The two principal objectives of this study were to obtain quantitative information on the composition of the shallow water benthic infauna communities of northern Monterey Bay and to evaluate their natural variation in time and space. Permanent stations were chosen which represented the major depth and sediment regimes of the shallower water of northern Monterey Bay. In addition, several stations were placed in areas which are likely to be affected by waste disposal in the near future. Wherever possible, the location of stations was chosen to coincide with sampling stations used by other participants in the Sea Grant program for gathering data on hydrography, phytoplankton biomass, and productivity. This insured that a maximum amount of information would be available for analyzing the temporal and spatial differences of the benthic infaunal communities. The sampling procedures we used were similar to those employed by Dr. Welton Lee of Hopkins Marine Station and Dr. Eugene Haderlie of the United States Naval Postgraduate School in their survey of the benthic infauna of southern Monterey Bay. The similar techniques should permit the comparison of data from the two halves of the bay.

This final data report discusses the methods we employed in the survey and gives the initial reduction of the data on the benthic infauna for the period of August 1971 through February 1973. This report does not represent final data analysis, nor does it discuss community structure and temporal variation. It is merely a data report.

We have collected 383 species of infaunal organisms and have identified and enumerated 137,465 individuals. Due to the magnitude of the taxonomic difficulties involved, our time has been almost entirely occupied by this task. Detailed analyses and interpretations of the data presented here are currently being initiated by the scientific personnel involved in the project and upon completion will be submitted for publication to appropriate scientific journals.

Initially the study was supported solely by a grant from the Office of Sea Grant Programs, U.S. Department of Commerce. From September 1971 through August 1972, substantial additional support was received from the Association of Monterey Bay Area Governments (AMBAG). This support enabled us to expand and improve the project.

SCIENTIFIC PERSONNEL

<u>Individual</u>	<u>Specialty</u>
James Nybakken Associate Professor	Project Director
Alfred Hodgson Chief Systematist	Polychaeta and Ophiuroidea
Patrick Clark Research Assistant	Bivalvia
Gary McDonald Research Assistant	Opisthobranchia

Michael Panietz Research Assistant	Polychaeta
David Shonman Research Assistant	Gastropoda and Scaphopoda
Peter Slattery Research Assistant	Crustacea and Ophiuroidea
Barry Turner Research Assistant	Polychaeta

In addition to the above personnel, students employed as hourly help and students enrolled in the undergraduate research class "Environmental Research Participation" have greatly aided in shipboard sampling and laboratory sorting of samples.

ACKNOWLEDGEMENTS

We are most grateful to the following taxonomic experts for their courtesy in identifying and/or confirming determinations of specimens of organisms collected during this study. Without their help, a project such as this would not have been possible. However, the acknowledgement of their invaluable assistance does not imply that they have checked all of the species listed in this report or all of the individuals of a given species.

Dr. James A. Blake Pacific Marine Station	Spionidae
Mr. James Carlton California Academy of Sciences	Gastropoda and Scaphopoda
Dr. Kristian Fauchald Curator Allan Hancock Foundation	Polychaeta

Dr. John S. Garth Chief Curator Allan Hancock Foundation	Brachyuran Decapoda
Dr. Robert Given Allan Hancock Foundation	Cumacea
Miss Janet Haig Allan Hancock Foundation	<u>Pagurus granosimanus</u>
Dr. Olga Hartman Allan Hancock Foundation	Polychaeta
Dr. Charlotte Holmquist Naturhistorisk Riksmuseet Stockholm, Sweden	Mysidacea
Mr. Ernest W. Iverson California Academy of Sciences	Tanaidacea and Isopoda
Dr. Meredith L. Jones Curator, Division of Worms U. S. National Museum	Magelonidae
Dr. Louis S. Kornicker Curator, Division of Crustacea U. S. National Museum	Mydocopid Ostracoda
Dr. Diana R. Laubitz National Museums of Canada	Caprellidae
Mr. William J. Light California Academy of Sciences	Cirratulidae
Dr. James McLean Los Angeles County Museum of Natural History	Gastropoda
Mr. Louis Marincovich University of Southern California	Gastropoda
Dr. John L. Mohr University of Southern California	Nebaliacea
Dr. Allyn G. Smith California Academy of Sciences	Mollusca
Mr. James Sutton Hopkins Marine Station	Ophiuroida

We are also greatly indebted to Frank Monnich, owner and Captain of the research vessels AMIGO and FALCON, for providing us with the ship time necessary for the collection of our samples.

METHODS AND MATERIALS

Choice of Stations

Sampling began at ten permanent stations in August 1971. The locations of these stations were chosen to cover a large area of the bay north of the Monterey Submarine Canyon and to represent a wide range of depth and sediment types. Areas with rocky substrata were avoided. The steep slopes of the canyon wall were also avoided due to the difficulty of maintaining the ship over a constant depth while sampling.

These ten permanent stations were also used for the AMBAG project. Two stations were added at the request of AMBAG. However, the one new station located outside the bay had to be eliminated, leaving eleven permanent stations. The locations and depths of these stations are listed in Table 1. Figure 1 shows their locations within the bay.

Navigation

Station positions were determined using a combination of loran, radar ranges and bearings, and fathometer readings. In most cases the accuracy of the position was about ± 0.1 nautical mile. The ship was not anchored at the stations so the amount of drift was constantly observed and recorded. If the depth changed more than a few meters, or if

Table 1

Locations and mean depths from August 1971 through February 1973
for the eleven permanent benthos stations in northern Monterey Bay

<u>Station Number</u>	<u>Latitude N</u>	<u>Longitude W</u>	<u>Mean Depth (m)</u>
1105	36° 51.0'	121° 49.8'	16.5
1152	36° 54.8'	122° 01.0'	36.0
1153	36° 56.7'	121° 59.2'	14.5
1154	36° 55.5'	121° 52.6'	15.0
1155	36° 50.8'	121° 53.6'	62.5
1156	36° 53.0'	121° 55.0'	37.0
1158	36° 55.1'	121° 56.7'	25.5
1159	36° 57.1'	121° 56.2'	16.0
1175	36° 50.2'	121° 50.2'	36.5
1176	36° 52.3'	121° 59.8'	63.0
1177	36° 53.6'	121° 57.5'	34.5

Figure 1. Northern Monterey Bay, showing the locations
of the eleven permanent benthos stations

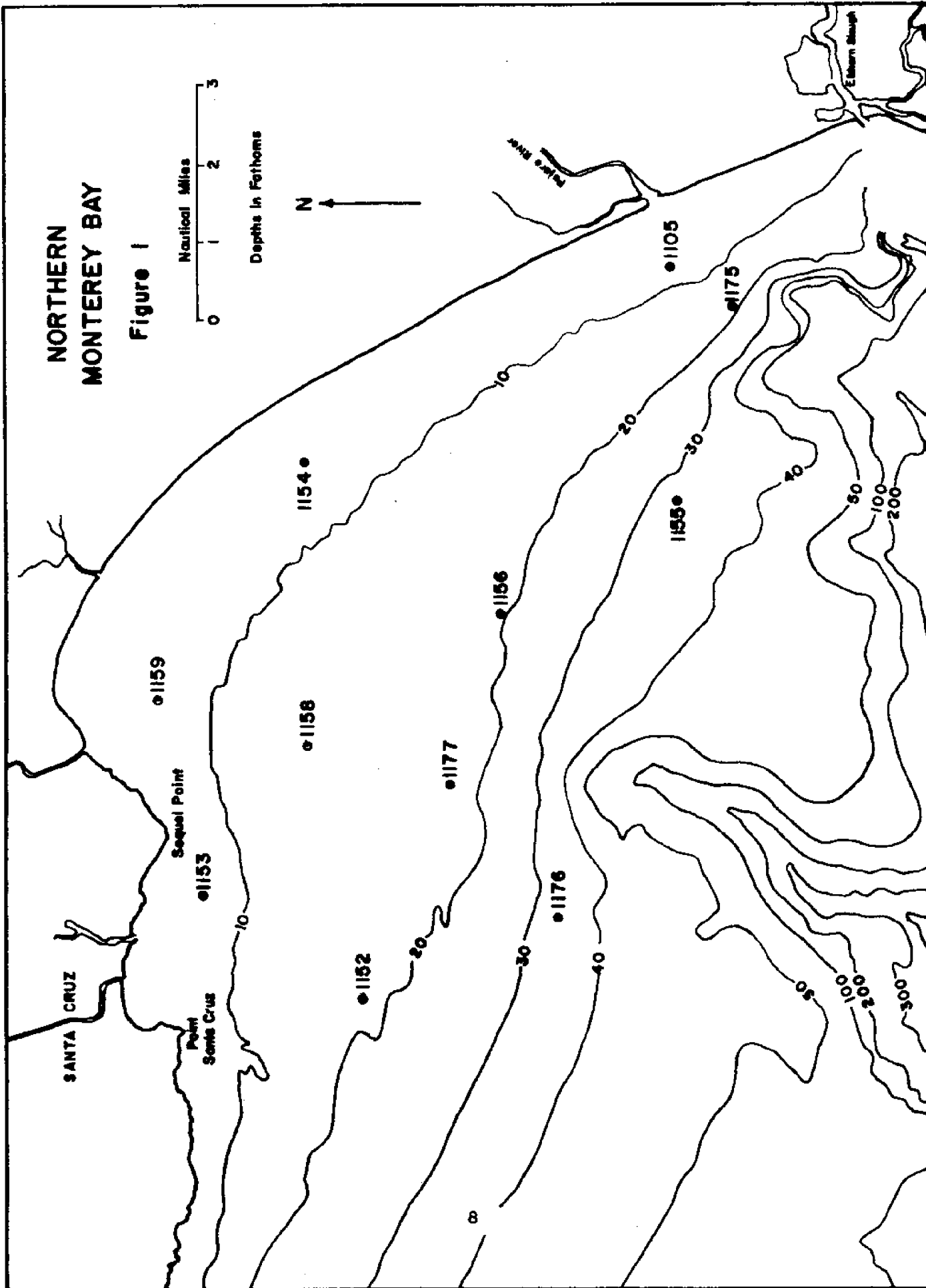
NORTHERN MONTEREY BAY

Figure 1

Nautical Miles
0 1 2 3

Depths in Fathoms

N



the ship drifted more than 0.3 nautical mile during sampling, we returned to the correct position to take the remainder of the replicate samples.

Number of replicate samples

Samples were collected with the Smith - McIntyre grab (McIntyre 1954) which has a sampling area of 0.1 m^2 . Initially eight replicates for faunal analyses were taken at each station. This was the number of replicates used by Drs. Lee and Haderlie for their survey in southern Monterey Bay. The number of replicates was later decreased to six due to time and financial limitations. This number was felt to be sufficient based on data reported by Lie (1968) for a similar quantitative study of the benthic infauna in Puget Sound. He considered five 0.1 m^2 replicate samples to be adequate to statistically describe the faunal assemblages and to obtain data on the ecology and biology of the most important species. In the May 1972 sampling period, we initiated more intensive sampling at station 1105 (Figure 1). The number of replicates was increased from six to ten in order to improve our ability to detect short term temporal variations at that station.

To determine if the number of species at a station was being adequately sampled with six replicates, cumulative plots of the number of species added versus increased sampling area were constructed for three stations (Figure 2). The plots represent the average values for two random orders of the replicates. Figure 2 shows that 91% to 96% of the species found in eight replicates will be obtained in six replicates at these stations. At station 1105, 86% of the species in ten replicates will be obtained in six replicates. Due to the dominance of the infaunal

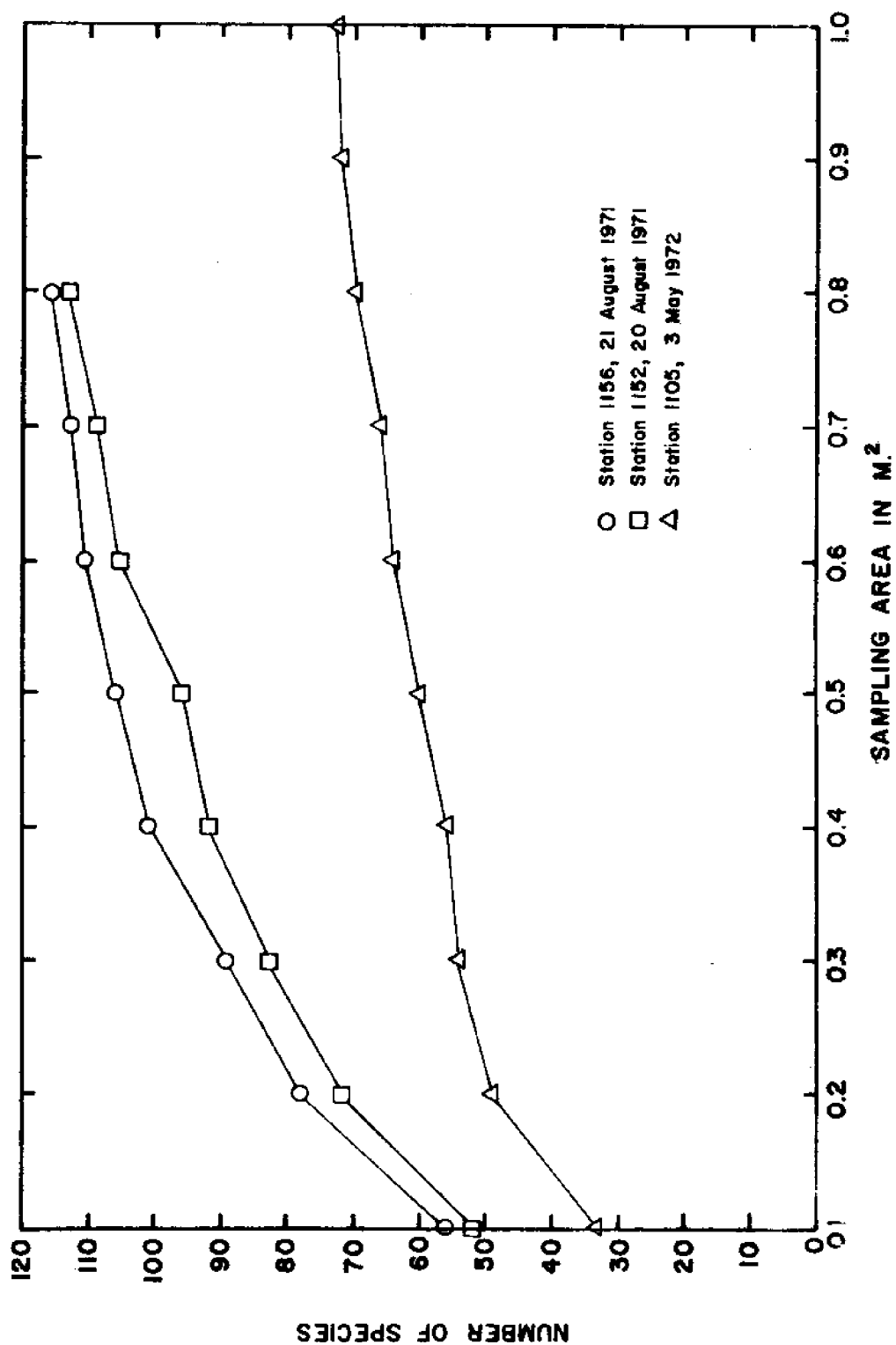


Figure 2. Cumulative plots of the number of species added versus increased sampling area, for three stations

communities by a small number of species (Tables 5 - 70), the species added in succeeding replicates are generally the rarer species. Therefore, six replicates are adequate for sampling the dominant species at a station. Table 2 shows the number of replicate samples at each station for each sampling period throughout the investigation.

Performance of the Smith-McIntyre grab

Variability in the volume of sediment obtained at each station was used to evaluate the ability of the Smith-McIntyre grab to take reliable replicate samples, Table 2 shows the mean volume of sediment obtained at all of the stations throughout the period of investigation. The coefficient of variation equals 100 (Standard deviation / mean volume). Good replication should produce a low coefficient of variation. The average coefficient of variation of mean sediment volumes from all stations decreases from 26% to 13% through the sampling periods (Figure 3). At the same time the average volume of mean sediment volumes from all stations increases from 4.5 to 9 liters (Figure 4). The correlation between these values is highly significant ($p < .001$, correlation coefficient), demonstrating that the average mean coefficient of variation for all stations decreases with increasing average mean volume of sediment throughout the period of investigation. This trend is attributable to the effect of experience of the crew in operating both the ship and the sampling gear. The effect of weather is probably minimal as wind and sea conditions were considerably variable and did not follow the trend of decreasing through the sampling periods.

The coefficient of variation is a measure of the variation in depth

Table 2

Volume of sediment in liters obtained in the grab samples at the eleven benthos stations in northern Monterey Bay during the period of investigation

<u>Date</u>	<u>Number of replicates</u>	<u>Mean volume</u>	<u>Range of variation</u>	<u>Standard deviation</u>	<u>Coefficient of variation (%)</u>
Station 1105					
21 Aug 1971	8	2.50	1- 3	0.75	30.19
10 Nov 1971	6	4.00	3- 5	0.89	22.36
2 Feb 1972	6	6.17	5- 7	0.98	15.96
3 May 1972	10	6.00	5- 7	0.66	11.06
22 Aug 1972	10	6.40	5- 7	0.70	10.94
17 Nov 1972	12	6.25	5- 7	0.62	9.99
28 Feb 1973	10	4.70	4- 6	0.68	14.43
Station 1152					
20 Aug 1971	8	6.00	5- 8	1.07	17.80
24 Nov 1971	6	6.50	6- 7	0.55	8.43
3 Feb 1972	6	8.83	7- 11	1.47	16.68
10 May 1972	6	9.83	9- 11	0.98	10.20
23 Aug 1972	6	10.00	9- 11	0.63	6.32
18 Nov 1972	6	10.00	8- 12	1.41	14.14

Table 2 (continued)

<u>Date</u>	<u>Number of replicates</u>	<u>Mean volume</u>	<u>Range of variation</u>	<u>Standard deviation</u>	<u>Coefficient variation (%)</u>
Station 1153					
13 Oct 1971	6	2.67	2- 4	1.03	38.74
24 Nov 1971	6	4.50	3- 8	1.87	41.57
3 Feb 1972	6	6.67	5- 8	1.03	15.51
10 May 1972	6	4.50	4- 5	0.55	12.17
23 Aug 1972	6	6.50	5- 8	1.05	16.14
18 Nov 1972	6	6.00	5- 7	0.89	14.91
Station 1154					
20 Aug 1971	8	2.88	1- 5	1.46	50.68
10 Nov 1971	6	3.50	3- 4	0.55	15.65
2 Feb 1972	6	5.00	4- 7	1.10	21.91
3 May 1972	6	5.83	4- 9	1.94	33.30
22 Aug 1972	6	5.67	5- 7	0.82	14.44
17 Nov 1972	6	6.17	5- 8	0.98	15.96

Table 2 (continued)

<u>Date</u>	<u>Number of replicates</u>	<u>Mean volume</u>	<u>Range of variation</u>	<u>Standard deviation</u>	<u>Coefficient of variation (%)</u>
Station 1155					
Aug 1971					
24 Nov 1971	6	12.00	11-13	0.63	5.27
2 Feb 1972	6	12.83	11-14	0.98	7.68
3 May 1972	6	12.33	9- 13	1.63	13.25
22 Aug 1972	6	12.17	10-14	1.72	14.16
17 Nov 1972	6	14.00	13-15	0.63	4.52
Station 1156					
21 Aug 1971	8	5.13	5- 6	0.36	7.03
10 Nov 1971	6	8.83	6- 12	2.32	26.24
2 Feb 1972	6	7.00	5- 8	1.10	15.65
3 May 1972	6	8.83	7- 11	1.33	15.07
22 Aug 1972	6	9.17	7- 11	1.60	17.48
17 Nov 1972	6	9.17	8- 10	0.75	8.23

Table 2 (continued)

<u>Date</u>	<u>Number of replicates</u>	<u>Mean volume</u>	<u>Range of variation</u>	<u>Standard deviation</u>	<u>Coefficient of variation (%)</u>
Station 1158					
20 Aug 1971	8	4.00	3- 5	0.75	18.88
10 Nov 1971	6	5.00	2- 7	2.00	40.00
2 Feb 1972	6	5.50	4- 7	1.05	19.07
3 May 1972	6	6.67	5- 8	1.21	18.18
22 Aug 1972	6	9.33	8- 10	0.82	8.77
17 Nov 1972	6	8.83	7- 11	1.47	16.68
Station 1159					
20 Aug 1971	8	3.38	1- 5	1.51	44.58
10 Nov 1971	6	5.67	4- 7	1.21	21.38
2 Feb 1972	6	6.67	6- 8	0.82	12.27
3 May 1972	6	9.00	6- 11	1.67	18.59
22 Aug 1972	6	9.83	6- 12	2.40	24.44
17 Nov 1972	6	9.33	8- 13	1.86	19.97

Table 2 (continued)

<u>Date</u>	<u>Number of replicates</u>	<u>Mean volume</u>	<u>Range of variation</u>	<u>Standard deviation</u>	<u>Coefficient of variation(%)</u>
Station 1175					
21 Aug 1971	8	7.50	6- 9	0.93	12.36
10 Nov 1971	6	7.50	6- 9	1.38	18.38
3 Feb 1972	6	6.00	5- 7	0.89	14.91
10 May 1972	6	8.17	7- 9	0.98	12.06
23 Aug 1972	6	8.50	8- 10	0.84	9.84
17 Nov 1972	6	8.33	7- 10	1.03	12.42
Station 1176					
13 Oct 1971	6	8.50	6- 10	1.52	17.84
24 Nov 1971	6	9.00	8- 10	0.89	9.94
3 Feb 1972	6	13.17	12-15	1.17	8.89
10 May 1972	6	10.17	9- 11	0.75	7.42
23 Aug 1972	6	13.33	13-15	0.82	6.14
18 Nov 1972	6	13.33	12-15	1.51	11.30

Table 2 (continued)

<u>Date</u>	<u>Number of replicates</u>	<u>Mean volume</u>	<u>Range of variation</u>	<u>Standard deviation</u>	<u>Coefficient of variation (%)</u>
Station 1177					
21 Aug 1971	8	3.25	2- 4	0.89	27.35
24 Nov 1971	6	3.83	3- 4	0.41	10.76
3 Feb 1972	6	4.50	4- 6	0.84	18.59
10 May 1972	6	6.00	5- 7	0.03	10.54
23 Aug 1972	6	8.50	7- 10	1.05	12.34
18 Nov 1972	6	7.17	6- 9	1.17	16.32

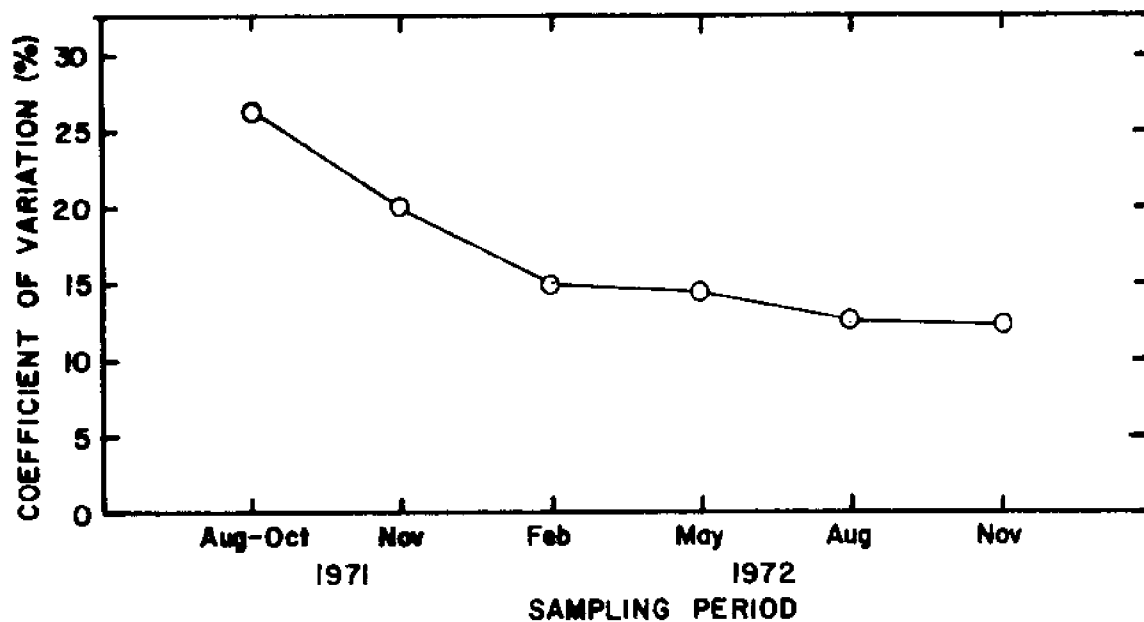


Figure 3. Average coefficient of variation of mean sediment volumes in replicate grab samples from all stations

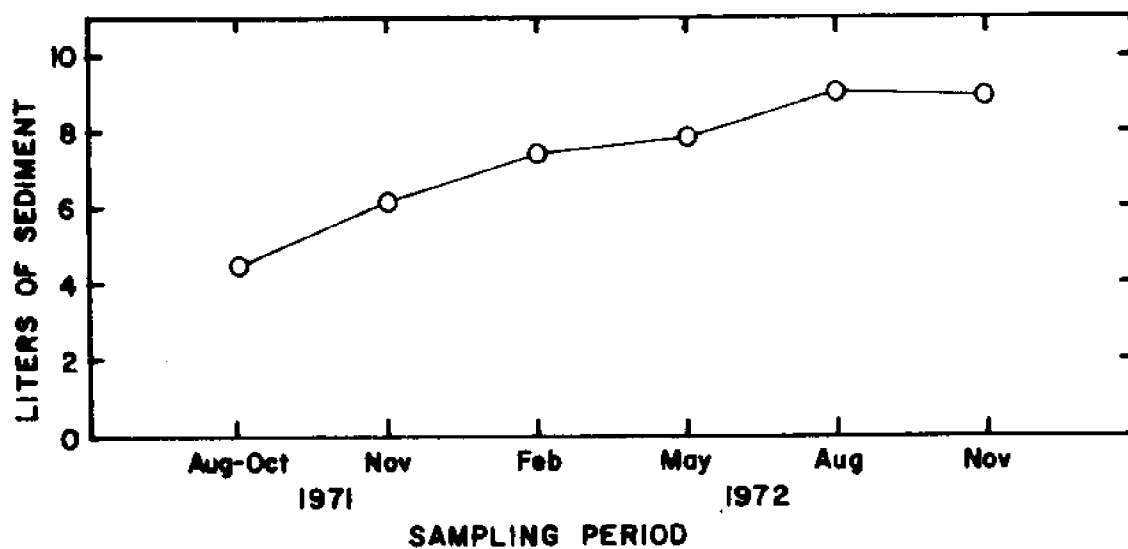


Figure 4. Average volume of mean sediment volumes in replicate grab samples from all stations

of penetration of the grab. An experienced crew can achieve a mean coefficient of variation for all stations of approximately 13% with a mean volume of sediment of 9 liters, indicating an average penetration of 10 cm. However, the volume of sediment obtained at stations with a high percentage of sand (Table 4) was considerably less. Analysis showed that the average volume of sediment in replicate grab samples was highly negatively correlated with percent sand composition of the sediments ($p < .001$, correlation coefficient). From February 1972 through November 1972, when the crew's sampling experience was high, some replicates with a minimum volume of 4 liters, representing 5 cm penetration, were taken at the sandy stations (Table 2). In an investigation conducted by John Oliver of Moss Landing Marine Laboratories on a sandy bottom in 20 meters of water near Moss Landing, twenty-four percent of the total number of infaunal organisms were found to inhabit depths greater than 5 cm. Nine percent were found at depths greater than 10 cm. If the vertical distribution of the infauna in mud is similar (Molander 1928) the effect of sampling variability on faunal parameters can be expected to be higher at sandy stations than at stations with softer sediments even though the coefficients of variation may be equal.

Sieve mesh size

All of the samples were sieved through a Nytex screen with a 1.0 mm mesh size which was backed up by another screen with a 0.5 mm mesh size. Initially only those organisms which were retained by the 1.0 mm mesh size screen were saved for faunal analyses. At station 1105, from May 1972 through February 1973, we also identified and enumerated those organisms

retained by the 0.5 mm mesh. Table 3 compares the 1.0 mm mesh screen to the combination of the two screens with respect to the total numbers of species and individuals obtained.

Table 3

Total number of species and individuals obtained at station 1105 with a 1.0 mm mesh screen and the 1.0 mm plus 0.5 mm mesh screens.

<u>Date</u>	<u>1.0 mm</u>		<u>1.0 mm + 0.5 mm</u>	
	<u># species</u>	<u># Individ.</u>	<u># species</u>	<u># Individ.</u>
3 May 1972	73	2748	97	8893
22 Aug 1972	79	2196	94	14997
11 Nov 1972	64	2035	72	4051
28 Feb 1972	49	694	58	1454

Reish (1959) discusses the importance of screen size in washing quantitative benthic samples. We considered the 1.0 mm mesh size appropriate for this survey, due, primarily, to the prohibitive time factor involved in identifying and enumerating the organisms retained by a 0.5 mm mesh screen. However, some information about the seasonality of important infaunal species was lost, as many of the individuals retained by the 0.5 mm mesh screen were juveniles. In May and August, additions of primarily juvenile forms of four species accounted for 56% and 80%, respectively, of the increases shown in the total numbers of individuals (Table 3). The increases in the numbers of species were due, largely, to additions of rare species.

Sampling Procedures

In each of the six replicates, the depth of the sediment contained in the grab was measured through a door on the top of the bucket. This measurement was used to determine the volume of sediment. At the same time, we measured the temperature of the sediment and removed a small subsample with an 8 cm long plastic cover for sediment particle size analysis and organic carbon determination. The contents of the grab were then emptied into a styrofoam ice chest for storage until they could be sieved. From November 1971 through February 1972, an additional grab sample was taken at each station to obtain sediment for heavy metal determination and DDT and nutrient uptake analyses.

Sieving was done on board ship. The sample was washed from the ice chest onto the screen with a hose. Water used in this operation was pumped from the bay through a filter to remove all planktonic organisms larger than the mesh size used for sieving. A low water pressure was maintained to prevent unnecessary damage to the specimens.

Larger polychaetes were picked from the screen while the sample was being sieved. They were relaxed in propylene phenoxetol diluted 1:99 with sea water, bottled, and preserved in 10% formalin buffered to neutral pH with hexamethylenetetramine. Ophiuroids were also picked from the screen during the sieving process, killed by placing in distilled water, bottled separately, and preserved in 10% buffered formalin. All of the material left on the screen after sieving was placed in a jar containing sea water with magnesium chloride (73 grams / liter) and rose bengal. This relaxed and stained the organisms. The sample was allowed to stand for about an hour and then preserved with 10% buffered formalin.

Sampling Dates

Samples were collected at each station once every three months during the period of investigation. Table 2 lists the sampling dates. In February 1973 we took samples only at station 1105 which had been under the influence of a heavy discharge from the Pajaro River during the winter months.

Sorting and Identification of the Fauna

The preserved samples were brought back to the laboratory for sorting. Small portions from the jars containing the screen residue were placed in glass petri dishes with fresh water, and the organisms were picked out under a dissecting microscope with fine forceps. The rose bengal had stained the organisms pink so that they were more readily separated from the sediment and debris. The fauna was sorted into six major categories: Polychaeta, Bivalvia, other Mollusca, Crustacea, Echinodermata, and miscellaneous phyla. These were bottled separately and preserved in 70% ethanol. This initial rough sorting was done by several part time employees.

The bottles of Polychaeta, together with the jars of larger Polychaeta separated on board ship, were further sorted into families before identifications to the lowest possible taxa were made. The other major categories of organisms were sorted directly to the lowest taxa. We put most of our taxonomic efforts into the five major classes of infaunal organisms; Polychaeta, Gastropoda, Bivalvia, Crustacea and Ophiuroidea. The other classes of organisms received less attention.

We are currently in the process of establishing a reference collection of all of the species of organisms collected by this survey. This collection will be catalogued and maintained in the museum at Moss Landing Marine Laboratories. In addition to the reference collection, the laboratory will store, at least temporarily, all of the organisms that were obtained during this survey. The California Academy of Sciences has expressed an interest in receiving all of the organisms except the reference collection. We may transfer our material there.

Some of the identifications given to organisms in this report are still subject to revision pending further examination by experts. In addition, there are a number of species which do not appear to be described in the literature. It is hoped that eventually descriptions will be made from our material and published.

Sediment Particle Size Analysis

The 72 subsamples collected in November 1972 were analyzed for sediment particle size using standard procedures. (Carver 1971, Emery, 1938). The samples were initially treated with 35% hydrogen peroxide to remove the organics. The silt and clay fractions were then separated from the coarser fractions by dry sieving through a 4-phi screen. Silt was separated from clay by pipette analysis and the sand was further divided into coarse, medium, and fine portions by Emery tube analysis. There was no gravel fraction. The results are presented in Table 4 as mean percent weights for each size fraction. The number of subsamples used for calculating the means equals the number of replicates for a station.

EXPLANATION OF DATA TABLES AND FIGURES

Tables 5 - 70 list the major classes and species of organisms found at each station throughout the period of investigation. Only identified species of organisms having a mean number of individuals of 2.00 or greater per $0.1m^2$ are reported. The organisms falling into the category of miscellaneous phyla are excluded. The choice of a mean of 2.00 individuals / $0.1m^2$ as a cutoff point was arbitrary but is based on the fact that a taxon must be present in reasonable numbers before it can be treated quantitatively. The choice of a mean of 2.00 or greater per $0.1m^2$ leaves an average of 21 species that are reported at each station for each sampling period. These species account for 63% of the total number of individuals collected during the survey and, therefore, comprise the major components of the fauna. The number of replicates for a station is used for calculating the mean. The variance is symbolized by S^2 . The Conf. limits are the 95% confidence limits. Percent of the total means percent of the total number of individuals collected at that station for that sampling period. Percent of the total for species are listed under sp. Values for classes are listed under Cl. Classes and species are listed in the order in which they are reported in the species list (Table 71).

Station 1155 was not sampled in August - October 1971. Data for Bivalvia in November 1972 and February 1973 are also missing as identifications of these organisms have not been completed.

Table 71 lists all of the genera and species that were recorded during the investigation along with the author and date of the original

description. Organisms identified to specific level, but for which a specific name is not presently available, are designated by lower case letters (e.g. Phyllodoce sp. a). Organisms identified to generic level only are designated by sp. if singular or spp. if more than one individual is present. An exception is the Bivalvia in which no distinction is made between individuals identified to the specific level, for which no specific name is available, and those individuals only identified to the generic level.

Polychaeta are listed by families. The order of families is the phylogenetic order recognized by Hartman (1968, 1969). Species are listed alphabetically under each family. Gastropoda are listed alphabetically by subclass. Crustacea are ordered alphabetically by order with the exceptions of the Amphipoda, which are listed alphabetically by family, and the Decapoda, which are listed by suborder. The arrangement of subclasses and orders of Crustacea is the phylogenetic order recognized by Meglitsch (1967).

This table also shows the distributions of genera and species among the eleven stations from October 1971 through February 1973. A "+" denotes that the taxon was present at the station indicated at least once during the period of investigation but was never represented during any sampling period by a mean number of individuals equal to or greater than 2.00 per 0.1m². A "C" (= common) indicates that a taxon was represented during at least one sampling period by a mean of 2.00 per 0.1m² or greater but less than 20.00 individuals per 0.1m². If the numbers of individuals of a taxon were present at a station at any time

in numbers exceeding 20.00 per 0.1m², this is designated by "A" (= abundant).

Figures 7-41 show the numbers of species of organisms and numbers of individuals per 0.1m² and the 95% confidence limits from each sampling period for total fauna, Polychaeta, Gastropoda, Bivalvia, Crustacea, and Ophiuroidea. The number of species is the total number found in the combined replicates for a station. The mean number of individuals and confidence limits are calculated from the total number of replicates for a station (Table 2).

The order of the stations is constant for Figures 7-41. This order is derived from the depths and sediment parameters of the stations. The stations can be separated into four depth categories (Table 1); 14.5m to 16.5 m, 25.5 m, 34.5 m to 37.0 m, and 62.5 m to 63.0 m. Table 4 gives the mean percent weight of sediment fractions at the eleven stations in November 1972. Figure 5 shows the percent weights of the sand fractions and the 95% confidence limits in order of decreasing values. Figure 6 shows the percent weights of the clay fractions, and the 95% confidence limits in order of increasing values. The ordering of the stations in the two figures is the same except for station 1153.

Sanders (1956, 1958) found that clay content is the most valid sediment particle size parameter for determining faunal distributions. Indirectly, depth may also be related to the distributions of the infauna as Nichols (1970) has shown. Based on this information, the eleven stations have been ordered within their depth categories by increasing percent clay composition in an attempt to approximate a natural order.

Table 4

Mean percent weight of sediment fractions
at the eleven benthos stations in November 1972.

<u>Station</u>	<u>Coarse sand</u> mm	<u>Medium sand</u> mm	<u>Fine sand</u> mm	<u>Sand</u> mm	<u>Silt</u> mm	<u>Clay</u> mm	<u>Silt and clay</u> mm	<u>Sand / mud</u>
	2.0-0.5	0.5-0.25	0.25-0.062	2.0-0.062	0.062-0.031	0.031	0.062	
1105	0.09	0.50	96.32	96.91	1.73	1.45	3.18	30.47
1152	0.90	9.40	68.10	78.40	16.10	5.60	21.70	3.61
1153	2.92	14.67	67.75	85.33	12.67	2.00	14.67	5.82
1154	1.42	7.42	85.67	94.50	3.83	1.75	5.58	16.95
1155	0.00	0.30	14.60	14.90	67.50	17.50	85.00	0.18
1156	0.08	2.75	78.75	81.58	14.17	4.42	18.59	4.39
1158	0.33	2.17	87.25	89.75	7.08	3.17	10.25	8.76
1159	1.00	4.58	59.17	64.75	28.25	7.00	35.25	1.84
1175	0.00	0.30	87.30	87.60	8.70	3.70	12.40	7.06
1176	0.17	1.08	34.17	35.42	49.92	14.58	64.50	0.55
1177	0.00	0.17	91.33	91.50	5.75	2.92	8.67	10.55

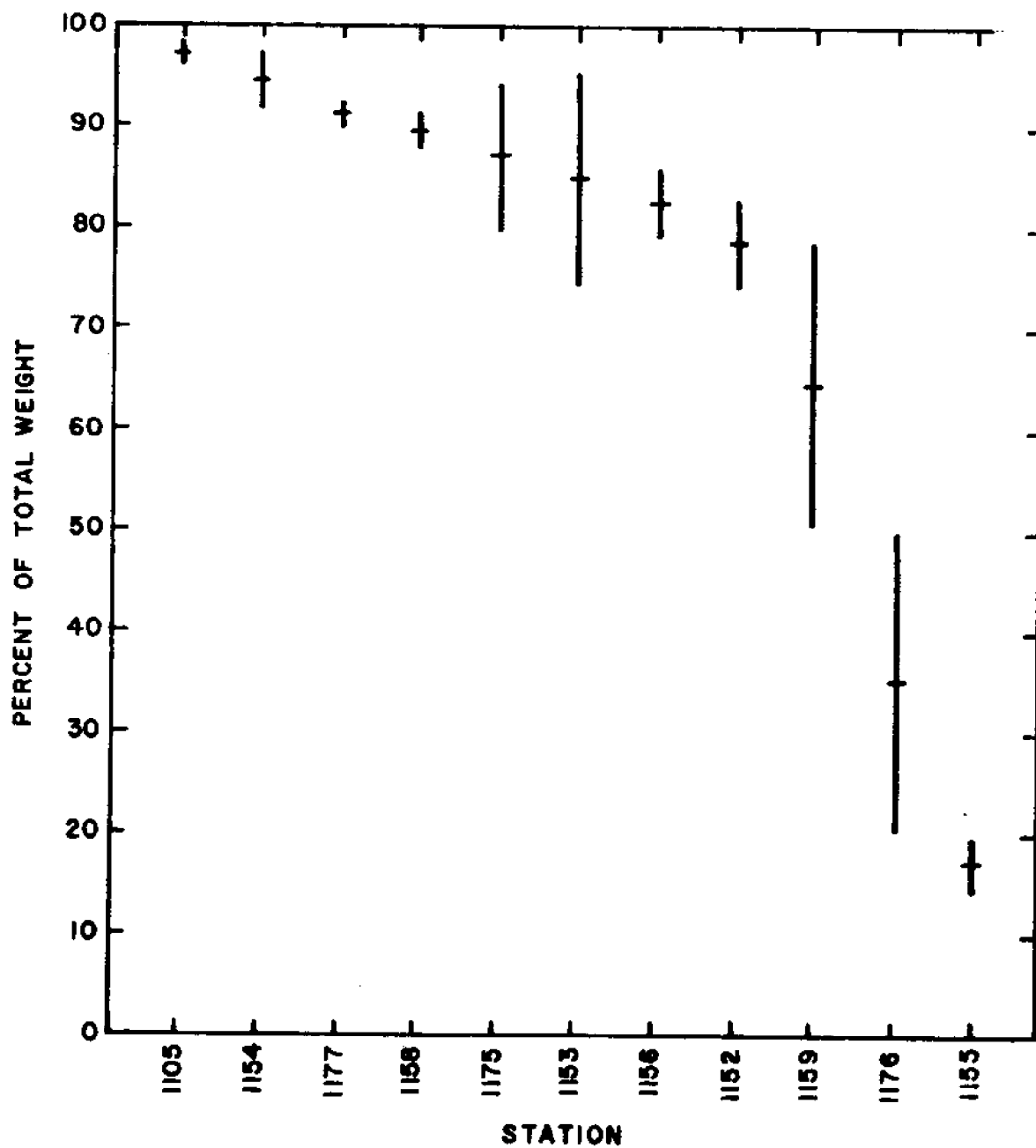


Figure 5. Mean percent weight of the sand fraction of the sediment by station in November 1972

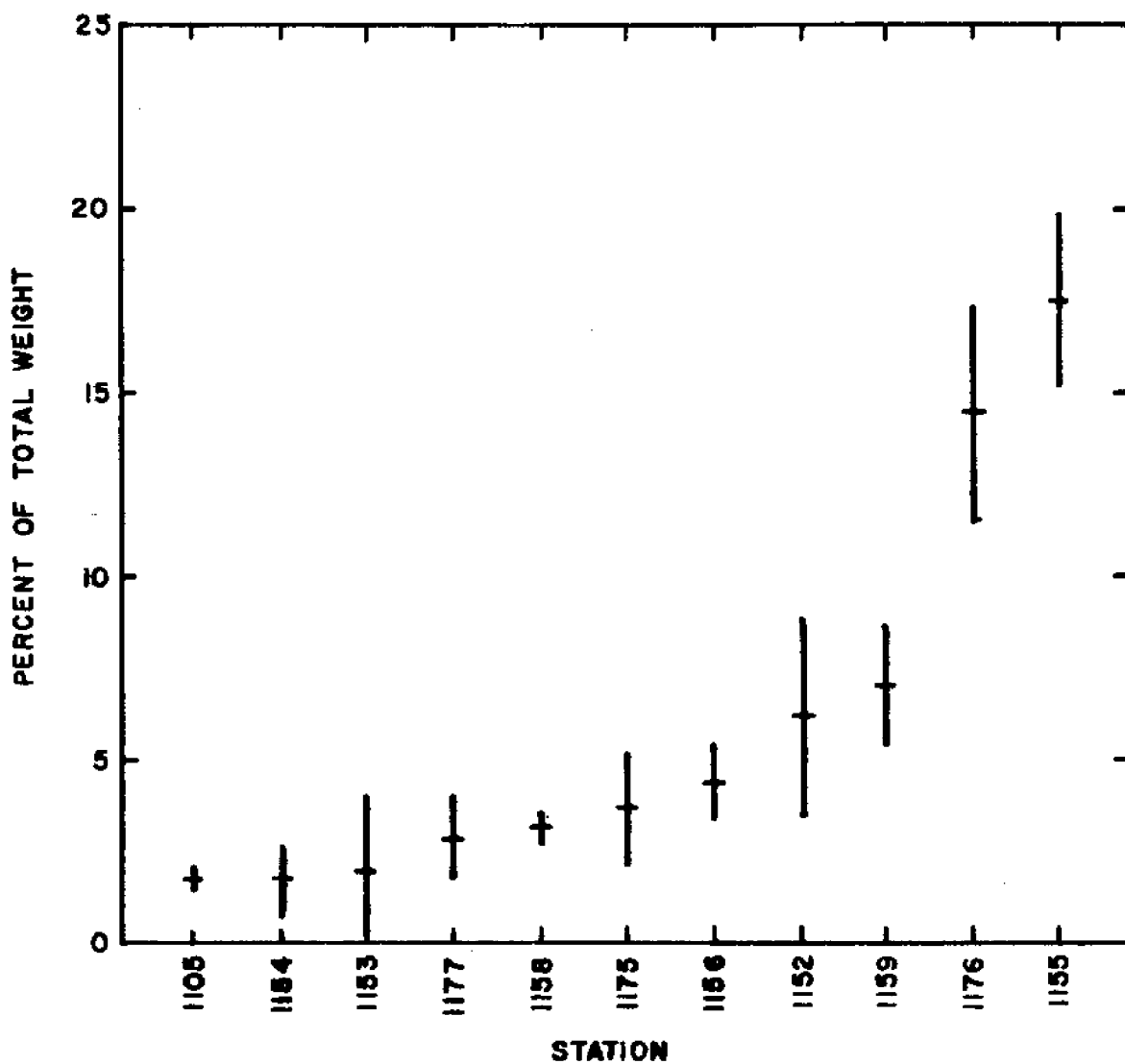


Figure 6. Mean percent weight of the clay fraction of the sediment by station in November 1972

Figure 42 shows the percent compositions of the numbers of individuals comprising the major components of the fauna at each station. Data from August 1971 through August 1972 were combined to calculate the percentages. November 1972 was excluded due to lack of information for Bivalvia.

REFERENCES

- Carver, R. E., ed. 1971. Procedures in sedimentary petrology. Wiley-Interscience, New York. 653 pp.
- Emery, K. O. 1938. Rapid method of mechanical analysis of sands. J. Sediment. Petrology, 8:105-110.
- Hartman, O. 1968. Atlas of errantiate polychaetous annelids from California. Allan Hancock Foundation, University of Southern California, Los Angeles. 828 pp.
- Hartman, O. 1969. Atlas of sedentariate polychaetous annelids from California. Allan Hancock Foundation, University of Southern California, Los Angeles. 812 pp.
- Lie, U. 1968. A quantitative study of benthic infauna in Puget Sound, Washington, U.S.A., in 1963-1964. FiskDir. Skr. Ser. HavUnders., 14:229-556.
- McIntyre, A. D. 1954. A spring-loaded bottom sampler. J. Mar. Biol. Ass. U. K., 33:257-264.
- Meglitsch, P. A. 1967. Invertebrate zoology. Oxford University Press, New York. 961 pp.
- Molander, A. 1928. Investigations into the vertical distribution of the fauna of the bottom deposits in the Gullmar Fjord. Svenska hydrogr.-biol. Kommn. Skr., N. S. Hydrogr., 6:19-28.
- Nichols, F. H. 1970. Benthic polychaete assemblages and their relationship to the sediment in Port Madison, Washington. Mar. Biol., 6(1):48-57.
- Reish, D. J. 1959. A discussion of the importance of screen-size in washing of quantitative marine bottom samples. Ecology, 40(2):307-309.
- Sanders, H. L. 1956. Oceanology of Long Island Sound, 1952-1954. X. The biology of marine bottom communities. Bull. Bingham Oceanogr. Collect. Yale Univ., 15:345-414.
- Sanders, H. L. 1958. Benthic studies in Buzzards Bay. I. Animal-sediment relationships. Limnol. Oceanogr., 3(3):245-258.

Table 5
Major classes and species of organisms at
Station 1105, 21 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 86

Total number of individuals: 4389

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	43	50
Gastropoda	5	6
Bivalvia	16	19
Crustacea	20	23
Ophiuroidea	<u>1</u>	<u>1</u>
Total	85	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	132.25	973.07	26.14	1058	24.1
<u>Sthenelais verruculosa</u>	2.75	3.36	1.54	22	.5
<u>Glycera convoluta</u>	3.13	2.13	1.22	25	.6
<u>Glycinde</u> sp. a	3.88	8.13	2.39	31	.7
<u>Nothria elegans</u>	9.00	18.86	3.64	72	1.6
<u>Haploscoloplos pugettensis</u>	2.63	1.13	.89	21	.5
<u>Scoloplos armiger</u>	2.50	2.29	1.27	20	.5
<u>Prionospio pygmaeus</u>	17.75	18.21	3.58	142	3.2
<u>Spiophanes bombyx</u>	8.00	8.00	2.37	64	1.5

Table 5 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Magelona</u> nr. <u>pitelkai</u>	6.13	11.84	2.88	49	1.1
<u>Magelona</u> <u>sacculata</u>	18.50	62.00	6.60	148	3.4
<u>Armandia</u> <u>bioculata</u>	21.63	150.55	10.28	173	3.9
<u>Pectinaria</u> <u>californiensis</u>	4.13	4.13	1.70	33	.8
GASTROPODA	4.25	5.07	1.89	34	.8
BIVALVIA	98.00	908.29	25.25	784	17.9
<u>Macoma</u> <u>yoldiformis</u>	2.38	2.27	1.26	19	.4
<u>Mactra</u> <u>californica</u>	22.50	58.00	6.38	180	4.1
<u>Mysella</u> <u>aleutica</u>	4.00	6.57	2.15	32	.7
<u>Nuculana</u> <u>taphrina</u>	17.50	21.43	3.88	140	3.2
<u>Protothaca</u> <u>staminea</u>	5.50	6.29	2.10	44	1.0
<u>Siliqua</u> <u>patula</u>	2.88	7.55	2.30	23	.5
<u>Tellina</u> <u>modesta</u>	27.75	185.64	11.42	222	5.1
<u>Tellina</u> <u>nuculoides</u>	9.63	32.55	4.78	77	1.8
CRUSTACEA	307.00	8005.29	77.25	2456	56.0
<u>Euphilomedes</u> <u>carcharodonta</u>	245.25	5848.50	64.08	1962	44.7
<u>Hemilamprope</u> <u>californica</u>	5.88	12.41	2.95	47	1.1
<u>Eohaustorius</u> <u>sencillus</u>	3.50	10.57	2.72	28	.6
<u>Paraphoxus</u> nr. <u>daboius</u>	14.88	116.41	9.04	119	2.7
<u>Paraphoxus</u> <u>epistomus</u>	11.63	57.98	6.38	93	2.1
<u>Paraphoxus</u> <u>lucubrans</u>	2.88	6.98	2.21	23	.5

Table 6

Major classes and species of organisms at
Station 1154, 20 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 64

Total number of individuals: 3309

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	35	55
Gastropoda	2	3
Bivalvia	13	20
Crustacea	13	20
Ophiuroidea	<u>1</u>	<u>2</u>
Total	64	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	138.50	2487.14	41.79	1108	33.5
<u>Sthenelais verruculosa</u>	2.00	.86	.78	16	.5
<u>Glycera convoluta</u>	2.88	4.41	1.76	23	.7
<u>Glycinde sp. a</u>	4.00	4.57	1.79	32	1.0
<u>Nothria elegans</u>	3.88	5.84	2.02	31	.9
<u>Lumbrineris luti</u>	8.50	20.86	3.83	68	2.1
<u>Haploscoloplos pugettensis</u>	5.38	16.27	3.38	43	1.3
<u>Prionospio pygmaeus</u>	44.25	565.93	19.93	354	10.7
<u>Magelona sacculata</u>	18.38	118.84	9.13	147	4.4

Table 6 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Chaetozone setosa</u>	3.13	2.98	1.45	25	.8
<u>Armandia bioculata</u>	24.13	153.55	10.38	193	5.8
<u>Chone nr. mollis</u>	2.25	2.21	1.25	18	.5
GASTROPODA	14.25	30.79	4.65	114	3.4
<u>Olivella pycna</u>	13.13	43.55	5.53	131	3.2
BIVALVIA	194.75	5013.93	59.33	1558	47.1
<u>Macoma nasuata</u>	2.88	2.98	1.45	23	.7
<u>Macoma yoldiformis</u>	6.25	68.50	6.94	50	1.5
<u>Mactra californica</u>	7.63	29.98	4.59	61	1.8
<u>Nemocardium centifilosum</u>	38.88	492.70	18.60	311	9.4
<u>Nuculana taphrina</u>	3.13	8.98	2.51	25	.8
<u>Nuculana sp.</u>	46.75	265.07	13.64	374	11.3
<u>Siliqua patula</u>	34.13	182.13	11.31	273	8.3
<u>Tellina modesta</u>	52.50	525.71	19.21	420	12.7
CRUSTACEA	60.38	645.98	21.30	483	14.6
<u>Euphilomedes carcharodonta</u>	51.63	613.98	20.76	413	12.5
<u>Acanthomysis davisi</u>	2.38	10.84	2.76	19	.6

Table 7

Major classes and species of organisms at
Station 1153, 13 Oct 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 65

Total number of individuals: 1083

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	25	39
Gastropoda	8	12
Bivalvia	13	20
Crustacea	19	29
Ophiuroidea	<u>0</u>	<u>0</u>
Total	65	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	38.50	469.10	22.72	231	21.3
<u>Nothria elegans</u>	4.83	9.37	3.21	29	2.7
<u>Lumbrineris luti</u>	2.83	7.77	2.92	17	1.6
<u>Prionospio pygmaeus</u>	2.00	8.40	3.04	12	1.1
<u>Chaetozone setosa</u>	2.83	35.77	6.27	17	1.6
<u>Scalibregma inflatum</u>	12.00	66.80	8.58	72	6.6
GASTROPODA	23.67	142.67	12.53	142	13.1
<u>Olivella pycna</u>	9.67	45.47	7.07	58	5.4

Table 7 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
BIVALVIA	69.67	1126.67	35.22	418	38.6
<u>Macoma yoldiformis</u>	5.67	23.87	5.13	34	3.1
<u>Nemocardium centifilosum</u>	2.00	6.40	2.65	12	1.1
<u>Nuculana taphrina</u>	24.17	206.97	15.09	145	13.4
<u>Pandora bilirata</u>	4.50	27.10	5.46	27	2.5
<u>Protothaca staminea</u>	7.00	32.80	6.01	42	3.9
<u>Tellina modesta</u>	23.33	119.47	11.47	140	12.9
CRUSTACEA	43.83	330.97	19.09	263	24.3
<u>Euphilomedes carcharodonta</u>	23.67	204.27	15.00	142	13.1
<u>Cyclaspis nubila</u>	2.17	8.97	3.14	13	1.2
<u>Hemilamprops californica</u>	2.83	4.97	2.34	17	1.6
<u>Bathycopea daltonae</u>	2.33	6.67	2.71	14	1.3

Table 8

Major classes and species of organisms at
Station 1159, 20 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 115

Total number of individuals: 2615

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	56	49
Gastropoda	9	8
Bivalvia	16	14
Crustacea	31	27
Ophiuroidea	<u>1</u>	<u>1</u>
Total	113	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	130.00	1936.00	36.87	1040	39.8
<u>Eumida</u> sp. a	3.13	25.27	4.21	25	1.0
<u>Glycera convoluta</u>	2.88	4.13	1.70	23	.9
<u>Glycinde</u> sp. a	4.50	4.86	1.85	36	1.4
<u>Nothria elegans</u>	6.63	4.27	1.73	53	2.0
<u>Lumbrineris luti</u>	28.25	262.50	13.58	226	8.6
<u>Haploscoloplos pugettensis</u>	4.88	8.89	2.51	39	1.5
<u>Prionospio pygmaeus</u>	7.88	22.41	3.97	63	2.4
<u>Spiophanes bombyx</u>	5.50	21.71	3.90	44	1.7

Table 8 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Scalibregma inflatum</u>	22.38	455.13	17.88	179	6.8
<u>Armandia bioculata</u>	2.88	5.84	2.02	23	.9
<u>Mediomastus californiensis</u>	8.38	40.55	5.34	67	2.6
<u>Ampharete labrops</u>	7.88	10.70	2.74	63	2.4
GASTROPODA	33.25	539.93	19.47	266	10.2
<u>Alvinia acutelirata</u>	2.25	8.79	2.48	18	.7
<u>Nassarius mendicus</u>	2.25	5.36	1.94	18	.7
<u>Olivella pycna</u>	15.38	416.27	17.10	123	4.7
SCAPHOPODA	3.50	4.57	1.79	28	1.1
<u>Cadulus fusiformis</u>	3.13	4.13	1.70	25	1.0
BIVALVIA	50.38	373.98	16.20	403	15.4
<u>Cardium quatrogenarium</u>	3.38	2.55	1.34	27	1.0
<u>Macoma yoldiformis</u>	11.13	99.84	8.37	111	3.4
<u>Mysella aleutica</u>	2.38	3.13	1.48	19	.7
<u>Nuculana taphrina</u>	2.88	6.70	2.17	23	.9
<u>Protothaca staminea</u>	2.88	2.41	1.30	23	.9
<u>Siliqua patula</u>	2.00	4.57	1.79	16	.6
<u>Tellina modesta</u>	22.88	138.13	9.85	183	7.0
CRUSTACEA	95.25	1523.36	32.70	762	29.1
<u>Euphilomedes carcharodonta</u>	27.13	93.27	8.09	217	8.3
<u>Cyclaspis nubila</u>	3.50	10.57	2.72	28	1.1
<u>Diastylis</u> sp. a	8.50	24.29	4.13	68	2.6
<u>Hemilamprops californica</u>	3.75	5.36	1.94	30	1.1

Table 8 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Ampelisca cristata</u>	3.88	8.98	2.51	31	1.2
<u>Argissa hamatipes</u>	4.00	9.71	2.61	32	1.2
<u>Photis californica</u>	2.00	8.29	2.41	16	.6
<u>Protomedia penates</u>	10.25	41.64	5.41	82	3.1
<u>Protomedia (C.) zotea</u>	5.63	43.98	5.56	45	1.7

Table 9

Major classes and species of organisms at
Station 1158, 20 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 106

Total number of individuals: 2281

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	60	57
Gastropoda	10	9
Bivalvia	11	10
Crustacea	23	22
Ophiuroidea	<u>1</u>	<u>1</u>
Total	105	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	74.25	1218.21	29.25	594	26.0
<u>Thalenessa spinosa</u>	2.50	4.29	1.73	20	.9
<u>Nephtys cornuta franciscana</u>	2.38	6.27	2.10	19	.8
<u>Glycinde sp. a</u>	3.38	1.70	1.09	27	1.2
<u>Spiophanes bombyx</u>	6.50	28.86	4.50	52	2.3
<u>Spiophanes sp. a</u>	3.25	3.36	1.54	26	1.1
<u>Magelona nr. pitelkai</u>	5.63	11.41	2.83	45	2.0
<u>Magelona sacculata</u>	11.38	42.55	5.47	91	4.0
<u>Mediomastus californiensis</u>	11.38	167.41	10.84	91	4.0

Table 9 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
APLACOPHORA	2.00	2.29	1.27	16	.7
GASTROPODA	17.13	19.55	3.17	137	6.0
<u>Cylichna attonsa</u>	2.13	1.27	.94	17	.7
<u>Mitrella gouldii</u>	2.13	6.41	2.12	17	.7
SCAPHOPODA	3.13	6.70	2.17	25	1.1
<u>Cadulus fusiformis</u>	3.13	6.70	2.17	25	1.1
BIVALVIA	17.38	53.70	6.14	139	6.1
<u>Macoma yoldiformis</u>	6.63	11.41	2.83	53	2.3
<u>Nuculana taphrina</u>	4.25	5.36	1.94	34	1.5
CRUSTACEA	73.38	945.98	25.77	587	25.7
<u>Euphilomedes carcharodonta</u>	26.00	312.00	14.80	208	9.1
<u>Hemilamprops californica</u>	4.50	21.71	3.90	36	1.6
<u>Ampelisca cristata</u>	13.00	15.71	3.32	104	4.6
<u>Protomedea penates</u>	7.75	36.79	5.08	62	2.7
<u>Protomedea (C.) zotea</u>	3.13	17.84	3.54	25	1.1
<u>Paraphoxus nr. daboivus</u>	4.38	6.84	2.19	35	1.5
<u>Paraphoxus epistomus</u>	3.63	4.27	1.73	29	1.3

Table 10

Major classes and species of organisms at
Station 1177, 21 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 118

Total number of individuals: 2784

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	57	48
Gastropoda	13	11
Bivalvia	11	9
Crustacea	33	28
Ophiuroidea	<u>2</u>	<u>2</u>
Total	116	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	100.75	1117.07	28.01	806	29.0
<u>Thalenessa spinosa</u>	4.38	1.70	1.09	35	1.3
<u>Nephtys cornuta franciscana</u>	7.13	36.70	5.08	57	2.0
<u>Glycinde</u> sp. a	3.50	3.71	1.61	28	1.0
<u>Scoloplos armiger</u>	2.13	2.41	1.30	17	.6
<u>Aricidea</u> nr. <u>suecica</u>	4.75	7.36	2.27	38	1.4
<u>Prionospio malmgreni</u>	2.50	3.43	1.55	20	.7
<u>Spiophanes bombyx</u>	5.88	7.55	2.30	47	1.7
<u>Magelona</u> nr. <u>pitelkai</u>	9.25	12.50	2.96	74	2.7

Table 10 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .lm²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Magelona sacculata</u>	12.75	35.07	4.96	102	3.7
<u>Chaetozone setosa</u>	3.38	3.13	1.48	27	1.0
<u>Mediomastus californiensis</u>	19.38	155.70	10.46	155	5.6
GASTROPODA	19.25	36.79	5.08	154	5.5
<u>Cylichna attonsa</u>	2.13	2.98	1.45	17	.6
<u>Kurtzia arteaga</u>	2.50	1.71	1.10	20	.7
<u>Mitrella gouldii</u>	4.75	7.36	2.27	38	1.4
SCAPHOPODA	5.25	27.07	4.36	42	1.5
<u>Cadulus fusiformis</u>	2.50	7.43	2.28	20	.7
BIVALVIA	9.38	23.70	4.08	75	2.7
<u>Astarte sp.</u>	2.00	2.29	1.27	16	.6
<u>Macoma yoldiformis</u>	2.50	2.86	1.42	20	.7
<u>Nuculana taphrina</u>	2.88	10.70	2.74	23	.8
CRUSTACEA	59.00	1232.86	29.42	472	17.0
<u>Euphilomedes carcharodonta</u>	9.63	33.13	4.82	77	2.8
<u>Hemilamprops californica</u>	5.50	11.71	2.87	44	1.6
<u>Ampelisca cristata</u>	3.50	5.14	1.90	28	1.0
<u>Ampelisca macrocephala</u>	2.00	2.57	1.34	16	.6
<u>Protomedeia (C.) zotea</u>	5.00	167.43	10.84	40	1.4
<u>Paraphoxus nr. daboius</u>	2.63	4.84	1.84	21	.8
<u>Paraphoxus epistomus</u>	13.00	96.29	8.22	104	3.7
OPHIUROIDEA	3.38	1.13	.89	27	1.0

Table 11

Major classes and species of organisms at
Station 1175, 21 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 93

Total number of individuals: 4570

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	50	54
Gastropoda	7	8
Bivalvia	12	13
Crustacea	20	22
Ophiuroidea	<u>2</u>	<u>2</u>
Total	91	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	360.63	30515.98	146.38	2885	63.1
<u>Thalenessa spinosa</u>	3.38	2.84	1.41	27	.6
<u>Eteone sp. a</u>	2.63	3.98	1.67	21	.5
<u>Nephtys cornuta franciscana</u>	17.00	25.14	4.20	136	3.0
<u>Nothria elegans</u>	3.00	16.57	3.41	24	.5
<u>Prionospio cirrifera</u>	104.25	7703.64	73.54	834	18.2
<u>Pseudopolydora sp. a</u>	52.38	6184.55	65.90	419	9.2
<u>Magelona nr. pitelkai</u>	12.00	8.00	2.37	96	2.1

Table 11 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Magelona sacculata</u>	126.50	784.86	23.47	1012	22.1
<u>Mediomastus californiensis</u>	3.75	9.64	2.60	30	.7
<u>Amphicteis scaphobranchiata</u>	2.13	4.98	1.87	17	.4
GASTROPODA	7.75	8.79	2.48	62	1.4
BIVALVIA	4.00	10.29	2.69	32	.7
CRUSTACEA	57.38	439.41	17.56	459	10.0
<u>Euphilomedes carcharodonta</u>	4.50	29.43	4.55	36	.8
<u>Hemilamprops californica</u>	2.75	18.50	3.60	22	.5
<u>Paraphoxus</u> nr. <u>daboius</u>	20.13	220.13	12.43	161	3.5
<u>Paraphoxus epistomus</u>	3.50	36.00	5.03	28	.6
<u>Paraphoxus lucubrans</u>	2.38	2.27	1.26	19	.4
<u>Paraphoxus variatus</u>	8.25	33.93	4.88	66	1.4
<u>Pinnixa franciscana</u>	2.63	10.27	2.68	21	.5

Table 12

Major classes and species of organisms at
Station 1156, 21 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 113

Total number of individuals: 3886

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	68	60
Gastropoda	9	8
Bivalvia	11	10
Crustacea	22	19
Ophiuroidea	<u>3</u>	<u>3</u>
Total	113	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	194.13	1971.55	37.21	1553	40.00
<u>Pholoe glabra</u>	6.38	11.41	2.83	51	1.3
<u>Thalenessa spinosa</u>	5.25	5.07	1.89	42	1.1
<u>Nephtys cornuta franciscana</u>	4.50	.57	.63	36	.9
<u>Glycinde</u> sp. a	2.88	1.55	1.04	23	.6
<u>Lumbrineris cruzensis</u>	2.63	6.84	2.19	21	.5
<u>Scoloplos armiger</u>	3.38	1.41	1.00	27	.7
<u>Aricidea</u> nr. <u>suecica</u>	14.75	93.64	8.11	118	3.0
<u>Prionospio cirrifer</u>	3.50	1.14	.90	28	.7

Table 12 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Prionospio malmgreni</u>	3.25	1.64	1.07	26	.7
<u>Spiophanes bombyx</u>	6.00	6.86	2.19	48	1.2
<u>Spiophanes missionensis</u>	2.00	6.57	2.15	16	.4
<u>Spiophanes sp. a</u>	2.00	2.00	1.19	16	.4
<u>Magelona nr. pitelkai</u>	14.50	22.57	3.98	116	3.0
<u>Magelona sacculata</u>	11.63	11.98	2.90	93	2.4
<u>Chaetozone setosa</u>	6.25	2.79	1.40	50	1.3
<u>Cossura rostrata</u>	2.00	2.29	1.27	16	.4
<u>Brada villosa</u>	2.75	4.50	1.78	22	.6
<u>Sternaspis fossor</u>	5.38	8.55	2.45	43	1.1
<u>Mediomastus californiensis</u>	41.38	377.41	16.28	331	8.5
<u>Asychis disparidentata</u>	2.38	1.41	1.00	19	.5
GASTROPODA	29.63	126.84	9.44	237	6.1
<u>Cylichna attonsa</u>	6.00	4.86	1.85	48	1.2
<u>Rictaxis punctocaelatus</u>	2.63	3.13	1.48	21	.5
<u>Volvulella cylindrica</u>	4.38	11.41	2.83	35	.9
<u>Kurtzia arteaga</u>	3.88	6.41	2.12	31	.8
<u>Mitrella gouldii</u>	3.50	7.71	2.33	28	.7
BIVALVIA	17.25	52.79	6.09	138	3.6
<u>Macoma yoldiformis</u>	4.38	4.84	1.84	35	.9
<u>Mysella aleutica</u>	4.88	11.55	2.85	39	1.0
<u>Nuculana taphrina</u>	2.50	6.86	2.19	20	.5

Table 12 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
CRUSTACEA	49.38	120.27	9.19	395	10.2
<u>Hemilamprops californica</u>	7.50	12.29	2.94	60	1.5
<u>Ampelisca compressa</u>	2.00	1.71	1.10	16	.4
<u>Ampelisca macrocephala</u>	2.75	17.64	3.52	22	.6
<u>Ampelisca pugetica</u>	3.50	5.43	1.95	28	.7
<u>Protomedea penates</u>	3.75	9.64	2.60	30	.8
<u>Paraphoxus variatus</u>	14.50	63.14	6.66	116	3.0
OPHUROIDEA	25.75	56.60	6.30	206	5.3
<u>Amphiodia urtica</u>	9.25	40.79	5.35	74	1.9
<u>Amphioplus hexacanthus</u>	15.50	22.57	3.98	124	3.2

Table 13

Major classes and species of organisms at
Station 1152, 20 Aug 1971

Summary: Completely sorted and analyzed

Number of replicates: 8

Total number of identified species: 114

Total number of individuals: 2695

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	65	57
Gastropoda	12	11
Bivalvia	10	9
Crustacea	23	20
Ophiuroidea	<u>3</u>	<u>3</u>
Total	113	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	116.00	646.86	21.31	928	34.4
<u>Harmothoe</u> nr. <u>lunulata</u>	2.00	3.14	1.49	16	.6
<u>Pholoe</u> <u>glabra</u>	3.50	10.57	2.72	28	1.0
<u>Thalenessa</u> <u>spinosa</u>	4.88	4.41	1.76	39	1.4
<u>Nephtys</u> <u>cornuta</u> <u>franciscana</u>	3.13	3.27	1.51	25	.9
<u>Glycinde</u> sp. a	2.00	2.86	1.42	16	.6
<u>Aricidea</u> nr. <u>suecica</u>	6.75	15.93	3.34	54	2.0
<u>Prionospio</u> <u>cirrifera</u>	5.50	7.71	2.33	44	1.6
<u>Magelona</u> nr. <u>pitelkai</u>	6.13	6.70	2.17	49	1.8
<u>Magelona</u> <u>sacculata</u>	4.13	3.27	1.51	33	1.2

Table 13 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Chaetozone setosa</u>	2.50	2.00	1.19	20	.7
<u>Brada villosa</u>	7.25	18.79	3.63	58	2.2
<u>Sternaspis fossor</u>	2.63	4.27	1.73	21	.8
<u>Mediomastus californiensis</u>	29.00	291.71	14.31	232	8.6
GASTROPODA	17.88	69.27	6.97	143	5.3
<u>Kurtzia arteaga</u>	2.13	3.84	1.64	17	.6
<u>Mitrella gouldii</u>	2.75	5.64	1.99	22	.8
SCAPHOPODA	2.75	.79	.74	22	.8
<u>Cadulus fusiformis</u>	2.00	1.71	1.10	16	.6
BIVALVIA	15.38	28.84	4.50	123	4.6
<u>Astarte sp.</u>	3.38	5.70	2.00	27	1.0
<u>Macoma yoldiformis</u>	2.25	3.36	1.54	18	.7
<u>Mysella aleutica</u>	5.38	31.70	4.72	43	1.6
<u>Nuculana taphrina</u>	2.00	4.57	1.79	16	.6
CRUSTACEA	57.25	252.21	13.31	458	17.0
<u>Euphilomedes carcharodonta</u>	13.50	60.86	6.54	108	4.0
<u>Hemilamprops californica</u>	9.75	28.21	4.45	78	2.9
<u>Ampelisca cristata</u>	4.00	12.29	2.94	32	1.2
<u>Ampelisca macrocephala</u>	2.63	3.13	1.48	21	.8
<u>Paraphoxus bicuspidatus</u>	4.13	1.27	.94	33	1.2
<u>Paraphoxus epistomus</u>	3.00	7.14	2.24	24	.9
<u>Paraphoxus variatus</u>	6.38	8.27	2.41	51	1.9

Table 13 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
OPHIUROIDEA	27.50	102.00	8.46	220	8.2
<u>Amphiodia urtica</u>	2.75	2.79	1.40	22	.8
<u>Amphioplus hexacanthus</u>	22.25	87.93	7.86	178	6.6

Table 14

Major classes and species of organisms at
Station 1176, 13 Oct 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 119

Total number of individuals: 2031

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	64	54
Gastropoda	8	7
Bivalvia	13	11
Crustacea	26	22
Ophiuroidea	<u>4</u>	<u>3</u>
Total	115	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # /.1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	101.67	1267.87	37.36	610	30.0
<u>Glycera capitata</u>	4.33	4.27	2.17	26	1.3
<u>Lumbrineris cruzensis</u>	6.67	12.67	3.73	40	2.0
<u>Lumbrineris luti</u>	9.17	17.77	4.42	55	2.7
<u>Ninoe sp. a</u>	4.00	3.20	1.88	24	1.2
<u>Scoloplos armiger</u>	3.17	6.57	2.69	19	.9
<u>Paraprionospio pinnata</u>	4.00	7.60	2.89	24	1.2
<u>Prionospio cirrifer</u>	2.00	7.20	2.82	12	.6
<u>Prionospio malmgreni</u>	3.50	12.30	3.68	21	1.0

Table 14 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp.</u>	<u>Cl.</u>
<u>Spiophanes bombyx</u>	5.00	44.80	7.02	30	1.5	
<u>Spiophanes missionensis</u>	2.17	.97	1.03	13	.6	
<u>Sternaspis fossor</u>	5.50	5.90	2.55	33	1.6	
<u>Mediomastus californiensis</u>	3.50	10.70	3.43	21	1.0	
<u>Maldane cristata</u>	7.00	4.00	2.10	42	2.1	
<u>Myriochele heeri</u>	4.33	11.47	3.55	26	1.3	
GASTROPODA	31.83	70.57	8.81	191		9.4
<u>Cylichna attonsa</u>	8.50	9.10	3.17	51	2.5	
<u>Kurtzia arteaga</u>	6.17	9.37	3.21	37	1.8	
<u>Mitrella gouldii</u>	10.33	13.47	3.85	62	103	3.1
SCAPHOPODA	10.33	11.47	3.55	62		3.0
<u>Cadulus fusiformis</u>	4.67	3.47	1.95	28	1.4	
BIVALVIA	25.33	95.87	10.27	152		7.5
<u>Astarte sp.</u>	4.17	6.97	2.77	25	1.2	
<u>Macoma yoldiformis</u>	2.33	4.27	2.17	14	.7	
<u>Mysella aleutica</u>	2.00	8.40	3.04	12	.6	
<u>Periploma discuss</u>	9.33	9.87	3.30	56	2.8	
<u>Vesicomya sp.</u>	3.83	3.37	1.93	23	1.1	
CRUSTACEA	32.17	176.57	13.94	193		9.5
<u>Diastylis sp. b</u>	5.17	3.37	1.93	31	1.5	
<u>Byblis veleronis</u>	4.17	7.37	2.85	25	1.2	
<u>Paraphoxus bicuspidatus</u>	3.33	9.07	3.16	20	1.0	
<u>Paraphoxus variatus</u>	4.17	3.37	1.93	25	1.2	

Table 14 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
ARACHNOIDEA	3.67	3.07	1.84	22	1.1
<u>Ammothella</u> sp. a	3.67	3.07	1.84	22	1.1
OPHIUROIDEA	32.83	330.17	19.06	197	9.7
<u>Amphiodia urtica</u>	30.67	320.67	18.79	184	9.1

Table 15

Major classes and species of organisms at
Station 1105, 10 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 65

Total number of individuals: 2174

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	27	42
Gastropoda	6	9
Bivalvia	15	23
Crustacea	15	23
Ophiuroidea	<u>1</u>	<u>2</u>
Total	64	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	42.67	313.87	18.59	256	11.8
<u>Glycinde sp.a</u>	3.67	7.07	2.79	22	1.0
<u>Nothria elegans</u>	4.00	3.20	1.88	24	1.1
<u>Haploscoloplos pugettensis</u>	10.17	23.37	5.07	61	2.8
<u>Magelona sacculata</u>	9.83	31.77	5.91	59	2.7
GASTROPODA	8.17	10.17	3.35	49	2.3
BIVALVIA	141.50	1930.70	46.10	849	39.1
<u>Cooperella subdiaphana</u>	4.50	7.50	2.87	27	1.2
<u>Macoma yoldiformis</u>	2.67	2.67	1.71	16	.7

Table 15 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Nuculana taphrina</u>	18.67	33.07	6.03	112	5.2
<u>Nuculana sp.</u>	5.33	8.67	3.09	53	1.4
<u>Pandora bilirata</u>	2.00	2.40	1.63	12	.6
<u>Protothaca staminea</u>	76.50	1347.90	38.52	459	21.0
<u>Tellina modesta</u>	27.50	131.90	12.05	165	7.6
CRUSTACEA	164.17	1061.37	34.18	985	45.3
<u>Euphilomedes carachardonta</u>	147.00	735.20	28.45	882	40.6
<u>Hemilamprops californica</u>	2.83	1.37	1.23	17	.8
<u>Paraphoxus nr. daboius</u>	2.83	48.17	7.28	17	.8
<u>Paraphoxus epistomus</u>	6.50	56.30	7.87	39	1.8

Table 16

Major classes and species of organisms at
station 1154, 10 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 56

Total number of individuals: 1934

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	24	43
Gastropoda	4	7
Bivalvia	14	25
Crustacea	13	23
Ophiuroidea	<u>1</u>	<u>2</u>
Total	56	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # /.1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	32.67	207.07	15.10	196	10.0
<u>Thalenessa spinosa</u>	2.00	1.60	1.33	12	.6
<u>Glycera convoluta</u>	2.00	1.60	1.33	12	.6
<u>Nothria elegans</u>	3.00	4.40	2.20	18	.9
<u>Lumbrineris luti</u>	3.33	7.07	2.97	20	1.0
<u>Haploscoloplos pugettensis</u>	6.50	16.30	4.24	39	2.0
<u>Magelona sacculata</u>	6.17	6.97	2.77	37	1.9
GASTROPODA	30.17	623.77	26.20	181	9.4
<u>Olivella pycna</u>	25.67	536.67	24.31	154	8.0
BIVALVIA	181.00	6201.60	82.62	1086	56.2

Table 16 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Macoma yoldiformis</u>	13.50	48.70	7.32	81	4.2
<u>Nemocardium centrifilosum</u>	19.50	143.50	12.57	117	6.1
<u>Siliqua patula</u>	3.83	8.57	3.07	23	2.0
<u>Tellina modesta</u>	84.33	1520.27	40.91	506	26.2
<u>Tellina sp.</u>	49.33	710.67	27.97	296	15.3
<u>Protothaca staminea</u>	4.33	3.07	1.84	26	1.3
CRUSTACEA	70.67	591.07	25.51	424	21.9
<u>Euphilomedes carcharodonta</u>	57.67	874.67	31.03	346	17.9
<u>Hemilamprops californica</u>	2.00	10.00	3.32	12	.6

Table 17

Major classes and species of organisms at
Station 1153, 24 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 73

Total number of individuals: 1840

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	28	38
Gastropoda	7	10
Bivalvia	16	22
Crustacea	19	26
Ophiuroidea	<u>3</u>	<u>4</u>
Total	73	100

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	63.33	857.07	30.72	380	20.7
<u>Glycera convoluta</u>	6.33	21.07	4.82	38	2.1
<u>Glycinde sp. a</u>	2.17	4.97	2.34	13	.7
<u>Nothria elegans</u>	7.50	10.70	3.43	45	2.5
<u>Lumbrineris tetraura</u>	12.67	67.87	8.64	76	4.1
<u>Haploscoloplos pugettensis</u>	3.50	2.70	1.72	21	1.1
<u>Chaetozone setosa</u>	2.33	3.87	2.06	14	.8
<u>Scalibregma inflatum</u>	15.00	768.80	29.09	90	4.9
<u>Amgeana occidentalis</u>	4.17	30.17	5.76	25	1.4
GASTROPODA	28.00	419.20	21.48	168	9.1

Table 17 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Olivella pycna</u>	10.33	280.67	17.58	103	3.4
BIVALVIA	154.17	4411.37	69.69	925	50.3
<u>Macoma yoldiformis</u>	6.33	13.87	3.91	38	2.1
<u>Mysella aleutica</u>	4.67	99.47	10.46	28	1.5
<u>Nemocardium centrifilsum</u>	9.33	55.87	7.84	56	3.0
<u>Nuculana</u> sp.	34.17	1234.57	16.07	342	11.1
<u>Pandora bilirata</u>	5.67	12.27	3.67	34	1.9
<u>Protothaca staminea</u>	49.50	1543.50	41.22	297	16.1
<u>Tellina modesta</u>	38.33	276.27	17.44	230	12.5
<u>Siliqua patula</u>	2.67	5.87	2.54	16	.9
CRUSTACEA	55.33	130.67	11.99	332	18.0
<u>Euphilomedes carcharodonta</u>	26.67	153.47	13.00	160	8.7
<u>Diastylopsis tenuis</u>	4.33	47.07	7.20	26	1.4
<u>Hemilamprops californica</u>	7.17	4.57	2.24	43	2.3
<u>Bathycopea daltonae</u>	3.83	5.37	2.43	23	1.3
<u>Edotea sublittoralis</u>	3.00	2.00	1.48	18	1.0
OPHIUROIDEA	3.00	20.80	4.79	18	1.0

Table 18

Major classes and species of organisms at
Station 1159, 10 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 88

Total number of individuals: 2473

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	43	49
Gastropoda	6	7
Bivalvia	15	17
Crustacea	22	25
Ophiuroidea	<u>1</u>	<u>1</u>
Total	87	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	104.67	859.87	30.77	628	25.4
<u>Sthenelais verruculosa</u>	2.00	2.00	1.48	12	.5
<u>Nephtys parva</u>	2.00	2.40	1.63	12	.5
<u>Glycinde</u> sp. a	5.33	9.07	3.16	32.	1.3
<u>Nothria elegans</u>	2.17	.97	1.03	13	.5
<u>Lumbrineris luti</u>	25.00	37.20	6.40	150	6.1
<u>Haploscoloplos pugettensis</u>	18.67	87.47	9.81	112	4.5
<u>Magelona</u> nr. <u>pitelkai</u>	2.67	1.87	1.43	16	.7
<u>Magelona sacculata</u>	13.67	129.87	11.96	82	3.3

Table 18 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Chaetozone setosa</u>	2.17	4.97	2.34	13	.5
<u>Amaeana occidentalis</u>	2.00	3.20	1.88	12	.5
GASTROPODA	24.50	133.90	12.14	147	5.9
<u>Nassarius mendicus</u>	8.00	35.20	6.22	48	1.9
<u>Olivella pycna</u>	2.83	3.37	1.93	17	.7
BIVALVIA	180.33	8275.47	95.45	1082	43.8
<u>Macoma yoldiformis</u>	30.00	281.20	17.59	180	7.3
<u>Nuculana taphrina</u>	5.17	7.37	2.85	31	1.3
<u>Nuculana</u> sp.	3.17	6.17	2.61	19	.8
<u>Protothaca staminea</u>	27.67	178.67	14.02	166	6.7
<u>Tellina meropsis</u>	12.17	50.57	7.46	73	3.0
<u>Tellina modesta</u>	91.00	3190.40	59.26	546	22.1
<u>Transennella tantilla</u>	5.33	31.87	5.92	32	1.3
CRUSTACEA	93.50	1404.70	39.32	561	22.7
<u>Euphilomedes carcharodonta</u>	61.67	715.47	28.06	370	15.0
<u>Diastylis</u> sp. b	2.17	2.97	1.81	13	.5
<u>Henilamprops californica</u>	4.67	13.87	3.91	28	1.1
<u>Ampelisca cristata</u>	2.17	2.97	1.81	13	.5
<u>Paraphoxus</u> nr. <u>daboius</u>	10.00	54.40	7.74	60	2.4

Table 19

Major classes and species of organisms at
Station 1158, 10 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 97

Total number of individuals: 1181

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	53	55
Gastropoda	10	10
Bivalvia	13	13
Crustacea	17	18
Ophiuroidea	<u>2</u>	<u>2</u>
Total	95	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	63.50	493.90	23.32	381	32.3
<u>Glycinde sp. a</u>	2.50	4.30	2.18	15	1.3
<u>Nothria elegans</u>	2.67	4.27	2.17	16	1.4
<u>Phylo felix</u>	3.67	5.47	2.45	22	1.9
<u>Spiophanes bombyx</u>	5.17	20.57	4.76	31	2.6
<u>Magelona nr. pitelkai</u>	8.00	12.80	3.75	48	4.1
<u>Magelona sacculata</u>	8.17	17.77	4.42	49	4.2
<u>Chaetozone setosa</u>	2.50	3.50	1.96	15	1.3
<u>Mediomastus californiensis</u>	6.33	13.47	3.85	38	3.2

Table 19 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
GASTROPODA	32.17	42.57	6.85	193	16.3
<u>Cylichna attonsa</u>	6.50	3.10	1.85	39	3.3
<u>Kurtzia arteaga</u>	4.17	12.97	3.78	25	2.1
SCAPHOPODA	4.33	2.67	1.71	26	2.2
BIVALVIA	32.33	87.07	9.79	194	16.4
<u>Cooperella subdiaphana</u>	3.00	6.40	2.65	18	1.5
<u>Macoma yoldiformis</u>	15.50	48.30	7.29	93	7.9
<u>Nuculana taphrina</u>	8.17	2.17	1.54	49	4.2
CRUSTACEA	42.00	20.80	4.79	252	21.3
<u>Euphilomedes carcharodonta</u>	26.00	3.20	1.88	156	13.2
<u>Hemilamprops californica</u>	2.33	1.47	1.27	14	1.2
<u>Ampelisca cristata</u>	2.83	2.17	1.54	17	1.4
<u>Paraphoxus</u> nr. <u>daboius</u>	2.17	2.97	1.81	13	1.1

Table 20

Major classes and species of organisms at
Station 1177, 24 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 90

Total number of individuals: 1023

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	48	53
Gastropoda	8	9
Bivalvia	13	14
Crustacea	15	17
Ophiuroidea	<u>3</u>	<u>3</u>
Total	87	96

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	50.00	212.80	15.31	300	29.3
<u>Thalenessa spinosa</u>	2.17	.57	.79	13	1.3
<u>Glycinde sp. a</u>	3.67	1.47	1.27	22	2.2
<u>Spiophanes bombyx</u>	4.67	9.47	3.23	28	2.7
<u>Magelona nr. pitelkai</u>	2.33	5.07	2.36	14	1.4
<u>Magelona sacculata</u>	12.00	55.60	7.82	72	7.0
<u>Chaetozone setosa</u>	2.50	1.10	1.10	15	1.5
<u>Mediomastus californiensis</u>	2.00	4.00	2.10	12	1.2
GASTROPODA	33.00	261.20	16.96	198	19.4

Table 20 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Cylichna attonsa</u>	5.00	11.20	3.51	30	2.9
<u>Kurtzia arteaga</u>	9.67	68.67	8.69	58	5.7
<u>Mitrella gouldii</u>	5.50	16.30	4.24	33	3.2
SCAPHOPODA	9.33	30.27	5.77	56	5.5
<u>Cadulus fusiformis</u>	5.83	28.17	5.57	35	3.4
BIVALVIA	13.33	48.67	7.32	80	7.8
<u>Macoma yoldiformis</u>	4.83	23.77	5.11	29	2.8
<u>Nuculana taphrina</u>	3.33	1.07	1.08	20	2.0
CRUSTACEA	39.00	800.00	29.68	234	22.9
<u>Euphilomedes carcharodonta</u>	16.17	321.37	18.81	97	9.5
<u>Hemilamprops californica</u>	2.83	5.37	2.43	17	1.7
<u>Paraphoxus epistomus</u>	8.00	24.80	5.22	48	4.7
OPHIUROIDEA	3.83	4.97	2.34	23	2.3

Table 21

Major classes and species of organisms at
Station 1175, 10 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 74

Total number of individuals: 1670

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	37	50
Gastropoda	8	11
Bivalvia	13	18
Crustacea	13	18
Ophiuroidea	<u>2</u>	<u>3</u>
Total	73	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	153.67	2065.87	47.69	922	55.2
<u>Thalenessa spinosa</u>	2.00	2.80	1.76	12	.7
<u>Phylo felix</u>	12.17	21.77	4.90	73	4.4
<u>Aricidea nr. suecica</u>	3.33	4.67	2.27	20	1.2
<u>Prionospio cirrifer</u>	5.17	79.77	9.37	31	1.9
<u>Prionospio malmgreni</u>	3.00	4.40	2.20	18	1.1
<u>Magelona nr. pitelkai</u>	9.83	30.97	5.84	59	3.5
<u>Magelona sacculata</u>	87.00	476.80	22.91	522	31.3
APLACOPHORA	2.17	9.37	3.21	13	.8

Table 21 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
GASTROPODA	30.67	89.87	9.95	184	11.0
<u>Cylichna attonsa</u>	9.50	43.50	6.92	57	3.4
<u>Kurtzia arteaga</u>	4.83	2.97	1.81	29	1.7
<u>Mitrella gouldii</u>	2.50	3.10	1.85	15	.9
SCAPHOPODA	3.67	3.47	1.95	22	1.3
<u>Cadulus fusiformis</u>	3.00	2.40	1.63	18	1.1
BIVALVIA	17.33	57.87	7.98	104	6.2
<u>Macoma yoldiformis</u>	2.17	2.17	1.54	13	.8
<u>Nuculana taphrina</u>	8.67	28.67	5.62	52	3.1
CRUSTACEA	62.67	512.67	23.76	376	22.5
<u>Euphilomedes carcharodonta</u>	5.50	.30	.57	33	2.0
<u>Paraphoxus nr. daboius</u>	39.50	301.50	18.22	237	14.2
<u>Paraphoxus lucubrans</u>	2.67	7.87	2.94	16	1.0
<u>Paraphoxus variatus</u>	10.00	55.60	7.82	60	3.6

Table 22

Major classes and species of organisms at
Station 1156, 10 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 101

Total number of individuals: 1372

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	56	55
Gastropoda	11	11
Bivalvia	15	15
Crustacea	13	13
Ophiuroidea	<u>3</u>	<u>3</u>
Total	98	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	95.83	1130.57	35.28	575	41.9
<u>Pholoe glabra</u>	2.00	1.60	1.33	12	.9
<u>Thalenessa spinosa</u>	3.00	2.40	1.63	18	1.3
<u>Lumbrineris californiensis</u>	2.33	2.27	1.58	14	1.0
<u>Phylo felix</u>	4.00	14.40	3.98	24	1.7
<u>Spiophanes bombyx</u>	5.83	27.37	5.49	35	2.6
<u>Spiophanes missionensis</u>	2.00	2.00	1.48	12	.9
<u>Magelona nr. pitelkai</u>	8.83	14.97	4.06	53	3.9
<u>Magelona sacculata</u>	15.50	73.90	9.02	93	6.8

Table 22 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Chaetozone setosa</u>	5.00	7.20	2.82	30	2.2
<u>Brada villosa</u>	2.17	4.57	2.24	13	.9
<u>Sternaspis fossor</u>	2.83	5.37	2.43	17	1.2
<u>Mediomastus californiensis</u>	5.33	21.87	4.91	32	2.3
GASTROPODA	42.33	123.87	11.68	254	18.5
<u>Cyllichna attonsa</u>	9.17	24.17	5.16	55	4.0
<u>Volvulella cylindrica</u>	3.67	5.07	2.36	22	1.6
<u>Kurtzia arteaga</u>	11.67	8.67	3.09	70	5.1
<u>Mitrella gouldii</u>	5.00	8.40	3.04	30	2.2
SCAPHOPODA	8.83	10.57	3.41	53	3.9
<u>Cadulus fusiformis</u>	5.33	15.87	4.18	32	2.3
BIVALVIA	20.83	48.97	7.34	125	9.1
<u>Cooperella subdiaphana</u>	2.00	6.80	2.74	12	.9
<u>Macoma yoldiformis</u>	6.50	23.90	5.13	39	2.8
<u>Mysella aleutica</u>	3.00	4.40	2.20	18	1.3
<u>Nuculana taphrina</u>	2.17	2.17	1.54	13	.9
CRUSTACEA	18.17	80.57	9.42	109	7.9
<u>Ampelisca cristata</u>	2.00	3.60	1.99	12	.9
<u>Paraphoxus variatus</u>	7.50	16.70	4.29	45	3.3
OPHIUROIDEA	23.33	126.67	11.81	140	10.2
<u>Amphiodia urtica</u>	6.17	1.77	1.39	37	2.7
<u>Amphionus hexacanthus</u>	15.17	98.17	10.40	91	6.6

Table 23

Major classes and speices of organisms at
Station 1152, 24 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 93

Total number of individuals: 1082

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	53	57
Gastropoda	9	10
Bivalvia	11	12
Crustacea	16	17
Ophiuroidea	<u>3</u>	<u>3</u>
Total	92	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	45.83	35.77	6.27	275	25.4
<u>Thalenessa spinosa</u>	3.67	10.27	3.36	22	2.0
<u>Glycinde</u> sp.a	3.50	2.30	1.59	21	1.9
<u>Magelona</u> nr. <u>pitelkai</u>	3.33	2.27	1.58	20	1.9
<u>Sternaspis fossor</u>	2.00	2.80	1.76	12	1.1
<u>Mediomastus californiensis</u>	2.00	4.00	2.10	12	1.1
<u>Asychis disparidentata</u>	2.17	1.77	1.39	13	1.2
GASTROPODA	22.17	18.57	4.52	133	12.3
<u>Cylichna attonga</u>	7.00	2.00	1.48	42	3.9
SCAPHOPODA	6.33	5.07	2.36	38	3.5

Table 23 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
BIVALVIA	20.33	16.27	4.23	122	11.3
<u>Cooperella subdiaphana</u>	3.33	6.27	2.63	20	1.9
<u>Macoma yoldiformis</u>	5.17	6.97	2.77	31	2.9
<u>Mysella aleutica</u>	2.50	3.10	1.85	15	1.4
<u>Nuculana taphrina</u>	3.00	.40	.66	18	1.7
CRUSTACEA	31.83	78.57	9.30	191	17.7
<u>Euphilomedes carcharodonta</u>	11.33	23.87	5.13	68	6.3
<u>Diastylis sp. a</u>	3.17	3.77	2.04	19	1.8
<u>Ampelisca compressa</u>	3.50	13.10	3.80	21	1.9
<u>Ampelisca cristata</u>	3.00	6.80	2.74	18	1.7
<u>Paraphoxus bicuspidatus</u>	2.83	4.17	2.14	17	1.6
OPHIUROIDEA	15.33	31.07	5.85	92	8.5
<u>Amphiodia urtica</u>	5.67	5.47	2.45	34	3.1
<u>Amphioplus hexacanthus</u>	8.50	17.90	4.44	51	4.7

Table 24

Major classes and species or organisms at
Station 1176, 24 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 106

Total number of individuals: 1231

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	58	55
Gastropoda	9	8
Bivalvia	13	12
Crustacea	21	20
Ophiuroidea	<u>3</u>	<u>3</u>
Total	104	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	63.33	198.67	14.79	380	30.9
<u>Glycera capitata</u>	3.83	7.77	2.92	23	1.9
<u>Lumbrineris cruzensis</u>	5.83	4.57	2.24	35	2.8
<u>Lumbrineris luti</u>	8.00	19.60	4.64	48	3.9
<u>Ninoe sp. a</u>	3.33	8.27	3.02	20	1.6
<u>Paraprionospio pinnata</u>	3.00	.40	.66	18	1.5
<u>Sternaspis fossor</u>	6.17	8.57	3.07	37	3.0
<u>Maldane cristata</u>	3.17	6.97	2.77	19	1.5
APLACOPHORA	2.33	9.07	3.16	14	1.1

Table 24 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
GASTROPODA	16.50	42.70	6.86	99	8.0
<u>Cylichna attonsa</u>	5.17	3.77	2.04	31	2.5
<u>Kurtzia arteaga</u>	3.83	4.57	2.24	23	1.9
<u>Mitrella gouldii</u>	3.00	16.00	4.20	18	1.5
SCAPHOPODA	8.83	7.37	2.85	53	4.3
<u>Cadulus fusiformis</u>	5.83	7.77	2.92	35	2.8
BIVALVIA	27.00	134.00	12.15	162	13.2
<u>Astarte</u> sp.	5.00	6.80	2.74	30	2.4
<u>Axinopsida</u> sp.	8.67	18.67	4.53	52	4.2
<u>Compsomyax subdiaphana</u>	3.50	2.30	1.59	21	1.6
<u>Nucula tenuis</u>	2.00	2.40	1.63	12	1.0
CRUSTACEA	16.83	72.97	8.69	101	8.2
<u>Paraphoxus bicuspidatus</u>	4.00	4.40	2.20	24	2.0
<u>Pinnixa occidentalis</u>	2.17	6.97	2.77	13	1.1
OPHIUROIDEA	36.67	284.27	17.69	220	17.9
<u>Amphiodia urtica</u>	29.33	239.47	16.24	176	14.3
HOLOTHUROIDEA	2.00	4.80	2.30	12	1.0

Table 25

Major classes and species of organisms at
Station 1155, 24 Nov 1971

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 112

Total number of individuals: 2033

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	56	50
Gastropoda	9	8
Bivalvia	17	15
Crustacea	24	21
Ophiuroidea	<u>3</u>	<u>3</u>
Total	109	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S2</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	125.00	1140.40	35.43	750	36.9
<u>Pholoe glabra</u>	2.83	5.37	2.43	17	.8
<u>Glycera capitata</u>	3.33	4.27	2.17	20	1.0
<u>Goniada brunnea</u>	2.17	2.17	1.54	13	.6
<u>Onuphis parva</u>	2.67	2.27	1.58	16	.8
<u>Lumbrineris luti</u>	17.67	45.47	7.07	106	5.2
<u>Ninoe sp. a</u>	6.00	5.20	2.39	36	1.8
<u>Paraonis ivanovi</u>	9.33	52.67	7.61	56	2.8
<u>Paraprionospio pinnata</u>	9.33	14.27	3.96	56	2.8

Table 25 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Spiophanes</u> sp. a	2.00	.40	.66	12	.6
<u>Brada pluribranchiata</u>	2.00	.80	.94	12	.6
<u>Scalibregma inflatum</u>	2.67	42.67	6.85	16	.8
<u>Sternaspis fossor</u>	6.33	3.87	2.06	38	1.9
<u>Mediomastus californiensis</u>	3.00	3.60	1.99	18	.9
<u>Maldane cristata</u>	11.33	9.87	3.30	68	3.3
<u>Pectinaria californiensis</u>	2.67	1.07	1.08	16	.8
<u>Terabellides stroemi</u>	9.83	10.97	3.47	59	2.9
GASTRPOPODA	15.00	26.80	5.43	90	4.4
<u>Cylichna attonsa</u>	5.50	6.70	2.72	33	1.6
<u>Kurtzia arteaga</u>	2.33	9.07	3.16	14	.7
SCAPHOPODA	22.67	125.47	11.75	136	6.7
<u>Cadulus fusiformis</u>	15.17	79.77	9.37	91	4.5
BIVALVIA	46.67	106.27	10.82	280	13.8
<u>Astarte</u> sp.	6.50	1.90	1.45	39	1.9
<u>Axinopsida</u> sp.	15.33	22.67	5.00	92	4.5
<u>Compsomyx subdiaphana</u>	3.50	4.30	2.18	21	1.0
<u>Myrella aleutica</u>	3.00	2.40	1.63	18	.9
<u>Nucula tenuis</u>	3.33	4.27	2.17	20	1.0
<u>Pandora bilirata</u>	3.00	9.20	3.18	18	.9
<u>Psephidia</u> sp.	3.00	2.40	1.63	18	.9
<u>Tellina meropsis</u>	2.50	4.30	2.18	15	.7
<u>Yoldia ensifera</u>	2.83	3.37	1.93	17	.8

Table 25 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
CRUSTACEA	28.17	120.97	11.54	169	8.3
<u>Eudorella pacifica</u>	2.17	2.97	1.81	13	.6
<u>Byblis veleronis</u>	2.67	5.87	2.54	16	.8
<u>Protomedeia penates</u>	6.67	27.87	5.54	40	2.0
<u>Heterophoxus oculatus</u>	2.83	1.37	1.23	17	.8
<u>Paraphoxus bicuspidatus</u>	3.83	3.37	1.93	23	1.1
<u>Pinnixa occidentalis</u>	2.00	4.00	2.10	12	.6
OPHIUROIDEA	73.17	113.77	11.19	439	21.6
<u>Amphiodia urtica</u>	62.67	85.07	9.68	376	18.5
<u>Dougaloplus amphacantha</u>	2.50	1.10	1.10	15	.7
HOLOTHUROIDEA	2.33	3.07	1.84	14	.7

Table 26

Major classes and species of organisms at
station 1105, 2 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 57

Total number of individuals: 1622

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	26	46
Gastropoda	5	9
Bivalvia	12	21
Crustacea	12	21
Ophiuroidea	<u>0</u>	<u>0</u>
Total	55	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	48.00	155.20	13.07	288	17.8
<u>Thalenessa spinosa</u>	2.83	2.57	1.68	17	1.0
<u>Glycinde</u> sp. a	2.00	.00	.00	12	.7
<u>Nothria elegans</u>	2.50	1.90	1.45	15	.9
<u>Haploscoloplos pugettensis</u>	15.00	74.40	9.05	90	5.5
<u>Prionospio pygmaeus</u>	5.17	14.97	4.06	31	1.9
<u>Magelona nr. pitelkai</u>	3.50	4.30	2.18	21	1.3
<u>Magelona sacculata</u>	6.83	6.97	2.77	41	2.5
GASTROPODA	11.17	40.57	6.68	67	4.1
BIVALVIA	76.00	232.00	15.98	456	28.1

Table 26 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Nuculana taphrina</u>	7.33	30.27	5.77	44	2.7
<u>Protothaca staminea</u>	44.17	78.17	9.28	265	16.3
<u>Tellina modesta</u>	15.67	23.07	5.04	94	5.8
<u>Siliqua patula</u>	5.50	10.70	3.43	33	2.0
CRUSTACEA	132.17	914.97	31.74	793	48.9
<u>Euphilomedes carcharodonta</u>	117.17	1193.37	36.24	703	43.3
<u>Hemilamprops californica</u>	2.50	1.10	1.10	15	.7
<u>Paraphoxus</u> nr. <u>daboius</u>	3.00	5.20	2.39	18	1.1
<u>Paraphoxus epistomus</u>	3.50	7.90	2.95	21	1.3

Table 27

Major classes and species of organisms at
Station 1154, 2 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 49

Total number of individuals: 1352

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	21	43
Gastropoda	4	8
Bivalvia	11	22
Crustacea	10	20
Ophiuroidea	<u>2</u>	<u>4</u>
Total	48	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean $\frac{\#}{\text{.lm}^2}$</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	42.17	174.97	13.88	253	18.7
<u>Glycera convoluta</u>	2.00	1.20	1.15	12	.9
<u>Limbrineris luti</u>	2.83	18.57	4.52	17	1.3
<u>Haploscoloplos pugettensis</u>	6.83	13.37	3.84	41	3.0
<u>Prionospio pygmaeus</u>	3.67	5.87	2.54	22	1.6
<u>Magelona sacculata</u>	8.17	10.17	3.35	49	3.6
<u>Chaetozone setosa</u>	8.17	9.37	3.21	49	3.6
GASTROPODA	10.83	203.77	14.98	65	4.8
<u>Olivella pycna</u>	4.67	109.87	11.00	28	2.1

Table 27 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
BIVALVIA	76.67	1436.27	39.76	460	34.0
<u>Macoma yoldiformis</u>	2.67	2.27	1.58	16	1.2
<u>Nuculana taphrina</u>	9.50	46.30	7.14	57	4.2
<u>Nuculana</u> sp.	7.50	24.70	5.21	45	3.3
<u>Protothaca staminea</u>	15.67	162.67	13.38	94	7.0
<u>Tellina modesta</u>	37.17	329.37	19.04	223	16.5
CRUSTACEA	92.83	614.97	26.02	557	41.2
<u>Euphilomedes carcharodonta</u>	69.33	482.67	23.05	416	30.8
<u>Hemilamprops californica</u>	10.33	20.27	4.72	62	4.6
<u>Paraphoxus</u> nr. <u>daboius</u>	4.67	7.07	2.79	28	2.1

Table 28

Major classes and species of organisms at
station 1153, 3. Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 73

Total number of individuals: 712

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	32	44
Gastropoda	10	14
Bivalvia	10	14
Crustacea	20	27
Ophiuroidea	<u>1</u>	<u>1</u>
Total	73	100

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	22.83	155.77	13.09	137	19.2
<u>Magelona sacculata</u>	3.17	6.17	2.61	19	2.7
<u>Amaeana occidentalis</u>	3.00	35.20	6.22	18	2.5
GASTROPODA	22.50	482.30	23.04	135	19.0
<u>Olivella pycna</u>	13.50	578.30	25.23	81	11.4
BIVALVIA	27.67	1048.27	33.97	166	23.3
<u>Protothaca staminea</u>	13.67	405.07	21.12	82	11.5
<u>Tellina modesta</u>	6.33	41.07	6.72	38	5.3
CRUSTACEA	29.33	165.47	13.50	176	24.7

Table 28 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Euphilomedes carcharodonta</u>	6.83	63.77	8.38	41	5.8
<u>Megaluropus longimerus</u>	2.00	2.00	1.48	12	1.7
<u>Tritella pilimana</u>	4.33	75.87	9.14	26	3.7
ECHINOIDEA	13.17	117.37	11.37	79	11.1

Table 29

Major classes and species of organisms at
station 1159, 2 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 115

Total number of individuals: 2209

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	65	57
Gastropoda	15	13
Bivalvia	17	15
Crustacea	15	13
Ophiuroidea	<u>1</u>	<u>1</u>
Total	113	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	129.00	2110.80	48.20	774	35.0
<u>Glycinde</u> sp. a	2.83	1.37	1.23	17	.8
<u>Nothria elegans</u>	2.00	2.00	1.48	12	.5
<u>Lumbrineris luti</u>	19.33	73.07	8.97	116	5.3
<u>Haploscoloplos pugettensis</u>	32.00	42.00	6.80	192	8.7
<u>Phylo felix</u>	6.17	31.77	5.91	37	1.7
<u>Spiophanes bombyx</u>	2.00	3.20	1.88	12	.5
<u>Mediomastus californiensis</u>	10.00	54.40	7.74	60	2.7
<u>Axiiothella rubrocincta</u>	2.67	11.87	3.61	16	.7

Table 29 (continued)

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>2 S</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
<u>Amaeana occidentalis</u>	4.17	6.17	2.61	25	1.1
GASTROPODA	68.83	4255.77	68.45	413	18.7
<u>Cyclichna attonsa</u>	9.00	23.60	5.10	54	2.4
<u>Alvinia acutelirata</u>	18.67	931.14	31.71	112	5.1
<u>Nassarius mendicus</u>	13.33	367.07	20.10	80	3.6
SCAPHOPODA	6.50	6.70	2.72	39	1.8
<u>Gadulus fusiformis</u>	6.17	8.57	3.07	37	1.7
BIVALVIA	84.33	1555.07	41.37	506	22.9
<u>Macoma yoldiformis</u>	7.67	33.47	6.07	46	2.1
<u>Myrella aleutica</u>	3.50	21.10	4.82	21	1.0
<u>Nuculana taphrina</u>	24.67	177.47	13.98	148	6.7
<u>Protothaca staminea</u>	9.17	114.17	11.21	55	2.5
<u>Tellina modesta</u>	33.17	323.37	18.87	199	9.0
CRUSTACEA	73.33	2329.87	50.64	440	19.9
<u>Euphilomedes carcharodonta</u>	26.00	157.60	13.17	156	7.1
<u>Hemilamprops californica</u>	4.33	7.87	2.94	26	1.2
<u>Ampelsica cristata</u>	2.00	3.20	1.88	12	.5
<u>Aoroides columbiae</u>	2.00	19.60	4.64	12	.5
<u>Photis ? brevipes</u>	3.33	59.07	8.06	20	.9
<u>Protomedeia (C.) zotea</u>	25.17	1808.07	44.62	151	6.8

Table 30

Major classes and species of organisms at
station 1158, 2 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 85

Total number of individuals: 1207

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	41	48
Gastropoda	10	12
Bivalvia	13	15
Crustacea	19	22
Ophiuroidea	<u>1</u>	<u>1</u>
Total	84	98

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	32.17	242.57	16.34	193	16.0
<u>Spiophanes bombyx</u>	2.83	5.37	2.43	17	1.4
<u>Magelona nr. pitelkai</u>	3.00	4.40	2.20	18	1.5
<u>Magelona sacculata</u>	5.67	17.07	4.33	34	2.8
GASTROPODA	23.33	138.67	12.36	140	11.6
<u>Cylichna attonsa</u>	5.50	35.90	6.29	33	2.7
BIVALVIA	42.17	226.57	15.79	253	21.0
<u>Composomyx subdiaphana</u>	2.00	.40	.66	12	1.0
<u>Cooperella subdiaphana</u>	4.00	10.80	3.45	24	2.0

Table 30 (continued)

<u>Taxa</u>	Mean $\frac{\#}{.1m^2}$	S^2	Conf. limits	Total #	% of total sp. Cl.
<u>Macoma yoldiformis</u>	8.67	7.47	2.87	52	4.3
<u>Nuculana taphrina</u>	12.83	39.77	6.62	77	6.4
<u>Protothaca staminea</u>	6.67	21.47	4.86	40	3.3
<u>Siliqua patula</u>	3.33	8.67	3.09	20	1.7
CRUSTACEA	63.00	273.20	17.34	378	31.3
<u>Euphilomedes carcharodonta</u>	37.33	123.47	11.66	224	18.6
<u>Hemilamprope californica</u>	3.00	3.20	1.88	18	1.5
<u>Ampelisca cristata</u>	5.33	12.27	3.67	32	2.7
<u>Protomedeia penates</u>	2.17	.97	1.03	13	1.1
<u>Paraphoxus nr. daboius</u>	5.00	4.80	2.30	30	2.5
<u>Caprella angusta</u>	3.67	80.67	9.42	22	1.8

Table 31

Major classes and species of organisms at
station 1177, 3 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 78

Total number of individuals: 1050

<u>Class</u>	<u>Number of species</u>	<u>Percent of identified species</u>
Polychaeta	37	47
Gastropoda	11	14
Bivalvia	10	13
Crustacea	15	19
Ophiuroidea	<u>3</u>	<u>4</u>
Total	76	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	41.33	263.47	17.03	248	23.6
<u>Glycinde sp. a</u>	3.83	2.97	1.81	23	2.2
<u>Prionospio malmgreni</u>	2.00	1.60	1.33	12	1.1
<u>Prionospio pygmaeus</u>	2.67	9.47	3.23	16	1.5
<u>Spiophanes bombyx</u>	2.17	2.17	1.54	13	1.2
<u>Magelona nr, pitelkai</u>	2.00	2.80	1.76	12	1.1
<u>Magelona sacculata</u>	11.83	23.77	5.11	71	6.8
GASTROPODA	15.33	38.27	6.49	92	8.8
<u>Kurtzia arteaga</u>	2.00	5.60	2.48	12	1.1

Table 31 (continued)

<u>Taxa</u>	<u>Mean $\frac{\#}{.1m^2}$</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
<u>Mitrella gouldii</u>	6.17	30.17	5.76	37	3.5
SCAPHOPODA	5.83	13.37	3.84	35	2.3
<u>Cadulus fusiformis</u>	3.83	6.17	2.61	23	2.2
BIVALVIA	13.17	22.97	5.03	79	7.5
<u>Cooperella subdiaphana</u>	2.33	1.07	1.08	14	1.3
<u>Macoma yoldiformis</u>	2.83	3.77	2.04	17	1.6
<u>Nuculana taphrina</u>	5.00	8.40	3.04	30	2.9
CRUSTACEA	26.50	160.30	13.28	159	15.1
<u>Euphilomedes carcharodonta</u>	6.17	15.37	4.11	37	3.5
<u>Hemilamprops californica</u>	4.50	5.50	2.46	27	2.6
<u>Protomedea (C.) zotea</u>	6.17	2.97	1.81	37	3.5
OPHIUROIDEA	2.00	2.80	1.76	12	1.1

Table 32

Major classes and species of organisms at
station 1175, 3 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 84

Total number of individuals: 1341

<u>Class</u>	<u>Number of species</u>	<u>Percent of identified species</u>
Polychaeta	38	45
Gastropoda	6	7
Bivalvia	16	19
Crustacea	20	24
Ophiuroidea	<u>2</u>	<u>2</u>
Total	82	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / . 1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	112.33	531.87	24.20	674	50.3
<u>Eteone</u> sp. a	2.83	20.97	4.80	17	1.3
<u>Haploscoloplos pugettensis</u>	5.00	6.40	2.65	30	2.2
<u>Phylo felix</u>	7.83	13.77	3.89	47	3.5
<u>Magelona</u> nr. <u>pitelkai</u>	3.17	2.17	1.54	19	1.4
<u>Magelona</u> <u>sacculata</u>	65.00	336.00	19.23	390	29.0
<u>Chaetozone</u> <u>setosa</u>	2.00	4.00	2.10	12	.9
GASTROPODA	39.67	372.27	20.24	238	17.7
<u>Cylichna</u> <u>attonsa</u>	9.33	23.07	5.04	56	4.2

Table 32

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>2 S</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
<u>Kurtzia arteaga</u>	2.50	3.50	1.96	15	1.1
<u>Mitrella gouldii</u>	6.83	58.97	8.06	41	3.1
SCAPHOPODA	2.50	2.70	1.72	15	1.1
<u>Cadulus fusiformis</u>	2.33	3.07	1.84	14	1.0
BIVALVIA	18.17	65.37	8.48	109	8.1
<u>Nuculana taphrina</u>	9.83	39.37	6.58	59	4.4
CRUSTACEA	43.33	63.07	8.33	260	19.4
<u>Euphilomedes carcharodonta</u>	10.33	15.87	4.18	62	4.6
<u>Hemilamprops californica</u>	7.00	6.40	2.65	42	3.1
<u>Paraphoxus nr. daboius</u>	9.00	8.80	3.11	54	4.0
<u>Paraphoxus epistomus</u>	3.67	10.27	3.36	22	1.6
<u>Paraphoxus variatus</u>	3.83	17.77	4.42	23	1.7
<u>Caprella californica</u>	2.50	27.10	5.46	15	1.1

Table 33

Major classes and species of organisms at
station 1156, 2 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 103

Total number of individuals: 1264

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	52	50
Gastropoda	13	13
Bivalvia	13	13
Crustacea	18	17
Ophiuroidea	<u>4</u>	<u>4</u>
Total	100	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .lm</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	85.83	1096.97	34.75	515	40.7
<u>Thalenessa spinosa</u>	4.17	4.17	2.14	25	2.0
<u>Glycinde</u> sp. a	2.50	1.90	1.45	15	1.2
<u>Phylo felix</u>	3.33	4.67	2.27	20	1.6
<u>Scoloplos armiger</u>	2.67	9.87	3.30	16	1.3
<u>Aricidea</u> nr. <u>suecica</u>	2.33	5.87	2.54	14	1.1
<u>Spiophanes bombyx</u>	3.00	3.60	1.99	18	1.4
<u>Magelona</u> nr. <u>pitelkai</u>	11.17	42.97	6.88	67	5.3
<u>Magelona sacculata</u>	9.33	1.87	1.43	56	4.4
<u>Chaetozone setosa</u>	4.50	16.30	4.24	27	2.1

Table 33 (continued)

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
<u>Sternaspis fossor</u>	3.17	10.97	3.47	19	1.5
<u>Mediomastus californiensis</u>	4.33	17.87	4.43	26	2.1
GASTROPODA	34.83	198.17	14.77	209	16.5
<u>Cyclichna attonsa</u>	6.83	14.17	3.95	41	3.2
<u>Volvulella cylindrica</u>	4.17	6.97	2.77	25	2.0
<u>Kurtzia arteaga</u>	5.67	15.47	4.13	34	2.7
<u>Mitrella gouldii</u>	3.67	5.47	2.45	22	1.7
SCAPHOPODA	11.83	40.97	6.72	71	5.6
<u>Cadulus fusiformis</u>	8.50	32.70	6.00	51	4.0
BIVALVIA	24.33	70.67	8.82	146	11.6
<u>Cooperella subdiaphana</u>	5.17	17.77	4.42	31	2.5
<u>Macoma yoldiformis</u>	6.17	12.97	3.78	37	2.9
<u>Nuculana taphrina</u>	3.67	3.07	1.84	22	1.7
CRUSTACEA	25.33	34.67	6.18	152	12.0
<u>Euphilomedes carcharodonta</u>	2.50	1.90	1.45	15	1.2
<u>Hemilamprops californica</u>	3.17	.57	.79	19	1.5
<u>Paraphoxus epistomus</u>	3.33	17.47	4.38	20	1.6
<u>Paraphoxus variatus</u>	6.83	50.17	7.43	41	3.2
OPHIUROIDEA	20.17	98.57	10.42	121	9.6
<u>Amphioda urtica</u>	4.83	34.57	6.17	29	2.3
<u>Amphioplus hexacanthus</u>	11.17	19.77	4.66	67	5.3
<u>Amphiura arcystata</u>	2.50	7.90	2.95	15	1.2

Table 34

Major classes and species of organisms at
station 1152, 3 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 105

Total number of individuals: 1318

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	56	53
Gastropoda	13	12
Bivalvia	14	13
Crustacea	17	16
Ophiuroidea	<u>3</u>	<u>3</u>
Total	103	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	70.50	157.10	13.15	423	32.1
<u>Pholoe glabra</u>	4.67	2.67	1.71	28	2.1
<u>Thalenessa spinosa</u>	4.50	5.90	2.55	27	2.0
<u>Nephtys caecoides</u>	2.33	2.67	1.71	14	1.1
<u>Glycinde</u> sp. a	2.00	4.00	2.10	12	.9
<u>Lumbrineris luti</u>	3.83	8.97	3.14	23	1.7
<u>Spiophanes bombyx</u>	2.00	.40	.66	12	.9
<u>Magelona</u> nr. <u>pitelkai</u>	4.50	5.90	2.55	27	2.0

Table 34 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Sternaspis fessor</u>	4.67	11.47	3.55	28	2.1
<u>Asychis disparidentata</u>	2.83	2.17	1.54	17	1.3
GASTROPODA	35.83	84.57	9.65	215	16.3
<u>Cylichna attonsa</u>	11.50	18.70	4.54	69	5.2
<u>Volvulella cylindrica</u>	2.67	5.47	2.45	16	1.2
<u>Kurtzia arteaga</u>	2.67	7.87	2.94	16	1.2
SCAPHOPODA	6.17	14.97	4.06	37	2.8
<u>Cadulus fusiformis</u>	4.00	13.60	3.87	24	1.8
BIVALVIA	22.33	39.87	6.62	134	10.2
<u>Axinospida</u> sp.	2.17	3.37	1.93	13	1.0
<u>Cooperella subdiaphana</u>	3.67	7.07	2.97	22	1.7
<u>Macoma yoldiformis</u>	4.00	2.40	1.63	24	1.8
<u>Mysella aleutica</u>	3.67	12.67	3.73	22	1.7
<u>Nuculana taphrina</u>	3.00	7.60	2.89	18	1.4
CRUSTACEA	28.50	145.90	12.67	171	13.0
<u>Euphilomedes caracharodonta</u>	4.67	7.87	2.94	28	2.1
<u>Hemilamprops californica</u>	4.00	7.20	2.82	24	1.8
<u>Ampelisca cristata</u>	2.00	.80	.94	12	.9
<u>Paraphoxus bicuspidatus</u>	4.83	15.37	4.11	29	2.2
<u>Paraphoxus variatus</u>	3.67	2.27	1.58	22	1.7
OPHIUROIDEA	20.50	66.30	8.54	123	9.3
<u>Amphiodia urtica</u>	11.50	30.70	5.81	69	5.2
<u>Amhioplus hexacanthus</u>	8.33	44.67	7.01	50	3.8

Table 35

Major classes and species of organisms at
station 1176, 3 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 104

Total number of individuals: 1343

<u>Class</u>	<u>Number of species</u>	<u>Percent of identified species</u>
Polychaeta	54	52
Gastropoda	9	9
Bivalvia	17	17
Crustacea	18	17
Ophiuroidea	<u>4</u>	<u>4</u>
Total	102	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	70.83	124.57	11.71	425	31.6
<u>Glycera capitata</u>	2.83	1.37	1.23	17	1.3
<u>Lumbrineris cruzensis</u>	8.33	17.47	4.38	50	3.7
<u>Lumbrineris luti</u>	11.50	40.30	6.66	69	5.1
<u>Ninoe sp. a</u>	5.50	6.70	2.72	33	2.5
<u>Paraprionospio pinnata</u>	3.00	5.60	2.48	18	1.3
<u>Sternaspis fossor</u>	4.33	3.87	2.06	26	1.9
<u>Maldane cristata</u>	7.17	12.17	3.66	43	3.2
<u>Myriochele heeri</u>	2.17	.97	1.03	13	1.0

Table 35 (continued)

<u>Taxa</u>	Mean # / . 1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
GASTROPODA	23.00	8.40	3.04	138	10.3
<u>Cylichna attonsa</u>	4.83	2.17	1.54	29	2.2
<u>Kurtzia arteaga</u>	6.00	5.60	2.48	36	2.7
<u>Mitrella gouldii</u>	6.00	13.60	3.87	36	2.7
SCAPHOPODA	4.17	7.37	2.85	25	1.9
<u>Cadulus fusiformis</u>	2.50	4.30	2.18	15	1.1
BIVALVIA	37.83	98.17	10.40	227	16.9
<u>Astarte</u> sp.	5.33	4.27	2.17	32	2.4
<u>Axionospida</u> sp.	13.33	31.07	5.85	80	6.0
<u>Compsomyax subdiaphana</u>	3.00	1.20	1.15	18	1.3
<u>Psephidia</u> sp.	4.00	6.80	2.74	24	1.8
CRUSTACEA	18.50	24.70	5.21	111	8.3
<u>Paraphoxus bicuspidatus</u>	3.50	8.30	3.02	21	1.6
<u>Paraphoxus variatus</u>	2.67	6.67	2.71	16	1.2
OPHIUROIDEA	49.67	475.87	22.89	298	22.2
<u>Amphiodia urtica</u>	47.67	430.27	21.76	286	21.3

Table 36

Major classes and species of organisms at
station 1155, 2 Feb 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 117

Total number of individuals: 1892

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	64	55
Gastropoda	9	8
Bivalvia	20	17
Crustacea	16	14
Ophiuroidea	<u>4</u>	<u>3</u>
Total	113	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	98.33	637.07	26.48	590	31.2
<u>Pholoe glabra</u>	3.00	4.40	2.20	18	1.0
<u>Glycera capitata</u>	3.67	2.67	1.71	22	1.2
<u>Goniada brunnea</u>	2.17	.57	.79	13	.7
<u>Lumbrineris cruzensis</u>	3.33	8.67	3.09	20	1.1
<u>Lumbrineris luti</u>	12.50	25.10	5.26	75	4.0
<u>Ninoe</u> sp. a	7.17	15.77	4.17	43	2.3
<u>Paraonis ivanovi</u>	8.00	54.00	7.17	48	2.5
<u>Paraprionospio pinnata</u>	6.17	4.97	2.34	37	2.0

Table 36 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Sternopsis fessor</u>	3.17	3.37	1.93	19	1.0
<u>Mediomastus californiensis</u>	2.83	12.57	3.72	17	.9
<u>Maldane cristata</u>	7.00	2.40	1.63	42	2.2
<u>Pectinaria californiensis</u>	2.33	3.07	1.84	14	.7
<u>Terebellides stroemi</u>	2.33	.27	.54	14	.7
GASTROPODA	41.67	109.47	10.98	250	13.2
<u>Cylichna attonsa</u>	8.17	10.97	3.47	49	2.6
<u>Kurtzia arteaga</u>	7.67	5.87	2.54	46	2.4
<u>Mitrella gouldii</u>	12.00	121.60	11.57	72	3.8
SCAPHOPODA	17.50	88.30	9.86	105	5.6
<u>Cadulus fusiformis</u>	11.33	37.47	6.42	68	3.6
BIVALVIA	51.00	97.60	10.37	306	16.2
<u>Astarte sp.</u>	5.00	7.60	2.89	30	1.6
<u>Axinopsida sp.</u>	17.17	21.77	4.90	103	5.4
<u>Cooperella subdiaphana</u>	2.17	2.97	1.81	13	.7
<u>Lyonsia californica</u>	3.50	2.70	1.72	21	1.1
<u>Mysella aleutica</u>	3.67	7.07	2.79	22	1.2
<u>Nucula tenuis</u>	4.33	3.87	2.06	26	1.4
<u>Pandora bilirata</u>	2.17	5.37	2.43	13	.7
<u>Psephidia sp.</u>	4.50	10.30	3.37	27	1.4
CRUSTACEA	17.50	20.70	4.77	105	5.6
<u>Paraphoxus bicuspidatus</u>	3.00	6.40	2.65	18	1.0
<u>Paraphoxus similis</u>	2.33	2.67	1.71	14	.7
ARACHNOIDEA	2.33	1.07	1.08	14	.7

Table 36 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Ammothella</u> sp. a	2.33	1.07	1.08	14	.7
OPHIUROIDEA	72.83	639.37	26.53	437	23.1
<u>Amphiodia</u> <u>urtica</u>	66.50	527.50	24.10	399	21.1

Table 37

Major classes and species of organisms at
Station 1105, 3 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 10

Total number of identified species: 73

Total number of individuals: 2748

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	35	48
Gastropoda	4	5
Bivalvia	12	16
Crustacea	19	26
Ophiuroidea	<u>2</u>	<u>3</u>
Total	72	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # /.1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	80.60	202.49	10.17	806	29.3
<u>Sthenelais verruculosa</u>	2.10	1.88	.98	21	.8
<u>Thalenessa spinosa</u>	2.30	2.46	1.12	23	.8
<u>Glycinde</u> sp. a	3.30	2.68	1.17	33	1.2
<u>Nothria elegans</u>	18.20	61.96	5.63	182	6.6
<u>Haploscoloplos pugettensis</u>	11.80	16.40	2.89	118	4.3
<u>Phylo felix</u>	3.30	2.23	1.07	33	1.2
<u>Prionospio pygmaeus</u>	12.80	41.07	4.58	128	4.7
<u>Spiophanes bombyx</u>	5.90	13.43	2.62	59	2.1

Table 37 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Magelona sacculata</u>	6.30	6.23	1.78	63	2.3
GASTROPODA	8.50	16.72	2.92	85	3.1
BIVALVIA	55.60	95.60	6.99	556	20.2
<u>Macoma yoldiformis</u>	2.30	2.01	1.01	23	.8
<u>Nuculana taphrina</u>	2.60	3.38	1.31	26	.9
<u>Protothaca staminea</u>	27.60	67.16	5.86	276	10.0
<u>Siliqua patula</u>	7.80	13.29	2.61	78	2.8
<u>Tellina modesta</u>	12.40	23.82	3.49	124	4.5
CRUSTACEA	124.10	236.77	11.00	1241	45.2
<u>Euphilomedes carcharodonta</u>	82.20	273.51	11.82	822	29.9
<u>Hemilamprops californica</u>	8.60	15.38	2.80	86	3.1
<u>Eohaustorius sencillus</u>	2.10	8.32	2.06	21	.8
<u>Paraphoxus</u> nr. <u>daboius</u>	7.60	8.93	2.14	76	2.8
<u>Paraphoxus epistomus</u>	4.40	11.16	2.39	44	1.6

Table 38

Major classes and species of organisms at
Station 1154, 3 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 73

Total number of individuals: 1328

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	35	48
Gastropoda	4	5
Bivalvia	11	15
Crustacea	21	29
Ophiuroidea	<u>1</u>	<u>1</u>
Total	72	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean# / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	65.67	836.27	30.34	394	29.7
<u>Nephtys caecoides</u>	2.83	6.17	2.61	17	1.3
<u>Glycera convoluta</u>	2.50	5.90	2.55	15	1.1
<u>Glycinde</u> sp. a	3.33	7.07	2.79	20	1.5
<u>Nothria elegans</u>	6.67	53.47	7.67	40	3.0
<u>Lumbrineris luti</u>	8.00	70.80	8.83	48	3.6
? <u>Protodorvillea</u> sp. a	2.00	24.00	5.14	12	.9
<u>Haploscoloplos pugettensis</u>	7.17	44.57	7.00	43	3.2
<u>Phylo felix</u>	6.00	9.60	3.25	36	2.7

Table 38 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Prionospio pygmaeus</u>	3.33	8.67	3.09	20	1.5
<u>Magelona sacculata</u>	8.83	54.97	7.78	53	4.0
<u>Chaetozone setosa</u>	4.17	5.37	2.43	25	1.9
GASTROPODA	17.33	104.27	10.71	104	7.8
<u>Olivella pycna</u>	10.67	89.47	9.92	64	4.8
BIVALVIA	53.33	727.87	28.31	320	24.1
<u>Macoma yoldiformis</u>	4.00	11.20	3.51	24	1.8
<u>Nuculana taphrina</u>	3.50	4.30	2.18	21	1.6
<u>Siliqua patula</u>	2.17	2.57	1.68	13	1.0
<u>Tellina modesta</u>	38.67	423.47	21.59	232	17.5
CRUSTACEA	78.00	533.20	24.23	468	35.2
<u>Euphilomedes carcharodonta</u>	44.50	377.10	20.37	267	20.1
<u>Hemilempropis californica</u>	7.50	16.30	4.24	45	3.4
<u>Bathycopea daltonae</u>	4.17	85.77	9.72	25	1.9
<u>Paraphoxus</u> nr. <u>daboius</u>	3.00	16.80	4.30	18	1.4
<u>Pinnixa</u> ? <u>franciscana</u>	5.50	30.70	5.81	33	2.5

Table 39

Major classes and species of organisms at
Station 1153, 10 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 79

Total number of individuals: 1211

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	36	46
Gastropoda	6	8
Bivalvia	12	15
Crustacea	23	29
Ophiuroidea	<u>1</u>	<u>1</u>
Total	78	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	51.17	97.77	10.37	307	25.4
<u>Thalenessa spinosa</u>	2.17	1.37	1.23	13	1.1
<u>Glycera convoluta</u>	3.00	4.40	2.20	18	1.5
<u>Glycinde sp. a</u>	2.33	.67	.86	14	1.2
<u>Nothria elegans</u>	8.50	5.90	2.55	51	4.2
<u>Lumbrineris luti</u>	8.50	23.50	5.09	51	4.2
<u>Haploscoloplos pugettensis</u>	5.67	20.67	4.77	34	2.8
<u>Phylo felix</u>	2.17	1.37	1.23	13	1.1
<u>Prionospio pygmaeus</u>	3.17	20.97	4.80	19	1.7

Table 39 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
GASTROPODA	22.67	247.07	16.49	136	11.2
<u>Olivella pycna</u>	8.17	277.77	17.49	49	4.0
BIVALVIA	51.83	360.57	19.92	311	25.7
<u>Macoma yoldiformis</u>	3.33	9.47	3.23	20	1.7
<u>Nuculana taphrina</u>	2.33	5.07	2.36	14	1.2
<u>Nuculana sp.</u>	4.83	2.17	1.54	29	2.4
<u>Pandora punctata</u>	3.50	3.10	1.85	21	1.7
<u>Protothaca staminea</u>	11.83	55.77	7.84	71	5.8
<u>Tellina modesta</u>	23.33	102.27	10.61	140	11.6
CRUSTACEA	62.50	567.50	24.99	375	31.0
<u>Euphilomedes carcharodonta</u>	31.00	309.20	18.45	186	15.4
<u>Hemilamprops californica</u>	13.83	98.97	10.44	83	6.9
<u>Bathymedon daltonae</u>	3.50	1.90	1.45	21	1.7

Table 40

Major classes and species of organisms at
Station 1159, 3 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 124

Total number of individuals: 2658

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	70	56
Gastropoda	11	9
Bivalvia	14	11
Crustacea	26	21
Ophiuroidea	<u>2</u>	<u>2</u>
Total	123	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	168.67	1809.87	44.64	1012	38.1
<u>Anaitides williamsi</u>	2.17	10.57	3.41	13	.5
<u>Phyllodoce</u> sp. a	2.83	2.17	1.54	17	.6
<u>Langerhansia</u> nr. <u>heterochaeta</u>	2.67	10.27	3.36	16	.6
<u>Glycera americana</u>	2.00	1.20	1.15	12	.5
<u>Glycinde</u> sp. a	2.33	1.47	1.27	14	.5
<u>Nothria elegans</u>	12.83	44.97	7.04	77	2.9
<u>Lumbrineris luti</u>	19.50	69.10	8.72	117	4.4
<u>Haploscoloplos pugettensis</u>	11.83	21.77	4.90	71	2.7

Table 40 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Spiophanes</u> sp. a	7.17	4.57	2.24	43	1.6
<u>Scalibregma inflatum</u>	2.50	2.30	1.59	15	.6
<u>Heteromastus filobranhus</u>	12.17	126.97	11.82	73	2.7
<u>Mediomastus californiensis</u>	31.17	587.77	25.44	187	7.0
<u>Notomastus (C.) tenuis</u>	9.17	8.97	3.14	55	2.1
<u>Praxillella affinis pacifica</u>	3.33	11.87	3.61	20	.8
GASTROPODA	57.17	66.57	8.56	343	12.9
<u>Cylichna attonsa</u>	10.67	8.67	3.09	64	2.4
<u>Alvinia acutelirata</u>	6.67	28.67	5.62	40	1.5
<u>Nassarius mendicus</u>	9.50	58.70	8.04	57	2.1
<u>Scissilabra dalli</u>	2.67	14.27	3.96	16	.6
SCAPHOPODA	13.67	21.87	4.91	82	3.1
<u>Cadulus fusiformis</u>	13.67	21.87	4.91	82	3.1
BIVALVIA	78.50	112.70	11.14	471	17.7
<u>Astarte</u> sp.	5.00	2.80	1.76	30	1.1
<u>Macoma yoldiformis</u>	12.67	24.27	5.17	76	2.9
<u>Mysella aleutica</u>	10.33	68.27	8.67	62	2.3
<u>Nuculana taphrina</u>	25.50	29.10	5.66	153	5.8
<u>Tellina modesta</u>	20.17	74.17	9.04	121	4.6
CRUSTACEA	99.83	844.17	30.48	599	22.5
<u>Euphilomedes carcharodonta</u>	13.50	59.50	8.09	81	3.0
<u>Hemilamprops californica</u>	4.50	5.90	2.55	27	1.0
<u>Argissa hamatipes</u>	4.17	8.97	3.14	25	.9

Table 40 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Protomedeia penates</u>	3.17	2.17	1.54	19	.7
<u>Protomedeia (C.) zotea</u>	16.67	429.67	23.29	100	3.8
<u>Pinnixa</u> ? <u>franciscana</u> juv.	16.50	222.70	15.66	99	3.7
OPHIUROIDEA	2.00	2.40	1.63	12	.5

Table 41

Major classes and species of organisms at
Station 1158, 3 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 87

Total number of individuals: 1364

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	43	49
Gastropoda	9	10
Bivalvia	12	14
Crustacea	20	23
Ophiuroidea	<u>2</u>	<u>2</u>
Total	86	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	51.17	165.37	13.49	307	22.5
<u>Thalenessa spinosa</u>	2.33	2.67	1.71	14	1.0
<u>Glycinde</u> sp. a	3.33	4.67	2.27	20	1.5
<u>Nothria elegans</u>	4.00	5.20	2.39	24	1.8
<u>Spiophanes bombyx</u>	4.83	8.57	3.07	29	2.1
<u>Spiophanes</u> sp. a	6.00	15.60	4.14	36	2.6
<u>Magelona</u> nr. <u>pitelkai</u>	5.33	3.87	2.06	32	2.3
<u>Magelona sacculata</u>	3.67	6.27	2.63	22	1.6
<u>Chaetozone setosa</u>	2.00	2.80	1.76	12	.9

Table 41 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Mediomastus californiensis</u>	2.33	2.27	1.58	14	1.0
GASTROPODA	13.67	40.67	6.69	82	6.0
<u>Cyclichna attonsa</u>	5.33	5.47	2.45	32	2.3
SCAPHOPODA	2.00	4.80	2.30	12	.9
<u>Cadulus fusiformis</u>	2.00	4.80	2.30	12	.9
BIVALVIA	32.33	73.47	8.99	194	14.2
<u>Macoma yoldiformis</u>	5.33	3.47	1.95	32	2.3
<u>Nuculana taphrina</u>	14.67	18.27	4.48	88	6.5
<u>Siliqua patula</u>	3.17	4.57	2.24	19	1.4
CRUSTACEA	87.83	130.17	11.97	527	38.6
<u>Euphilomedes carcharodonta</u>	34.00	26.40	5.39	204	15.0
<u>Hemilamprops californica</u>	9.50	21.90	4.91	57	4.2
<u>Ampelisca cristata</u>	2.67	2.27	1.58	16	1.2
<u>Protomedeia penates</u>	2.67	5.87	2.54	16	1.2
<u>Paraphoxus</u> nr. <u>daboius</u>	4.50	1.10	1.10	27	2.0
<u>Pinnixa</u> ? <u>franciscana</u> juv.	21.00	85.60	9.71	126	9.2

Table 42

Major classes and species of organisms at
Station 1177, 10 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 106

Total number of individuals: 1687

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	55	52
Gastropoda	11	10
Bivalvia	12	11
Crustacea	23	22
Ophiuroidea	<u>3</u>	<u>3</u>
Total	104	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	93.33	1897.47	45.70	560	33.2
<u>Thalenessa spinosa</u>	4.50	1.90	1.45	27	1.6
<u>Glycinde sp. a</u>	3.50	2.70	1.72	21	1.2
<u>Scoloplos armiger</u>	2.83	5.37	2.43	17	1.0
<u>Spiophanes bombyx</u>	21.33	42.67	6.85	128	7.6
<u>Spiophanes sp. a</u>	2.33	5.07	2.36	14	.8
<u>Magelona nr. pitelkai</u>	4.00	6.80	2.74	24	1.4
<u>Magelona sacculata</u>	12.33	176.27	13.93	74	4.4
<u>Chaetozone setosa</u>	7.83	16.57	4.27	47	2.8

Table 42 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp.	Cl.
<u>Sabellaria cementarium</u>	2.67	42.67	6.85	16	.9	
GASTROPODA	41.67	197.47	14.74	250		14.8
<u>Cylichna attonsa</u>	6.00	8.00	2.97	36	2.1	
<u>Volvulella cylindrica</u>	2.50	4.70	2.27	15	.9	
<u>Kurtzia arteaga</u>	6.00	3.20	1.88	36	2.1	
<u>Mitrella gouldii</u>	12.33	58.67	8.04	74	4.4	
SCAPHOPODA	4.00	3.20	1.88	24		1.4
<u>Cadulus fusiformis</u>	3.33	3.87	2.06	20	1.2	
BIVALVIA	13.00	31.20	5.86	78		4.6
<u>Astarte</u> sp.	2.00	.40	.66	12	.7	
<u>Nuculana taphrina</u>	3.00	2.80	1.76	18	1.1	
CRUSTACEA	51.00	1647.20	42.58	306		18.1
<u>Euphilomedes carcharodonta</u>	2.17	.57	.79	13	.8	
<u>Hemilamprops californica</u>	10.33	1.07	1.08	62	103	3.7
<u>Aorides columbiae</u>	3.00	47.20	7.21	18	1.1	
<u>Protomedeia (C.) zotea</u>	8.33	359.47	19.89	50	3.0	
<u>Paraphoxus epistomus</u>	7.33	11.87	3.61	44	2.6	
<u>Pinnixa ? franciscana</u> juv.	5.50	16.30	4.24	33	2.0	
OPHIUROIDEA	7.50	21.50	4.86	45		2.7
<u>Amphiodia urtica</u>	2.67	1.87	1.43	16	.9	
<u>Amphioplus hexacanthus</u>	3.33	9.07	3.16	20	1.2	

Table 43

Major classes and species of organisms at
Station 1175, 10 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 119

Total number of individuals: 3186

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	68	57
Gastropoda	10	8
Bivalvia	14	12
Crustacea	22	18
Ophiuroidea	<u>2</u>	<u>2</u>
Total	116	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	221.00	4387.60	69.50	1326	41.6
<u>Pholoe glabra</u>	2.33	2.67	1.71	14	.4
<u>Thalenessa spinosa</u>	5.33	8.27	3.02	32	1.0
<u>Phyllodoce</u> sp. a	2.67	1.07	1.08	16	.5
<u>Glycinde</u> sp. a	2.67	2.67	1.71	16	.5
<u>Scoloplos armiger</u>	4.83	2.17	1.54	29	.9
<u>Aricidea</u> nr. <u>suecica</u>	4.33	4.67	2.27	26	.8
<u>Prionospio malmgreni</u>	7.17	21.37	4.85	43	1.4
<u>Spiophanes bombyx</u>	6.67	69.87	8.77	40	1.3

Table 43 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Spiophanes missionensis</u>	6.00	15.20	4.09	36	1.1
<u>Spiophanes</u> sp. a	14.50	8.30	3.02	87	2.7
<u>Magelona</u> nr. <u>pitelkai</u>	14.17	32.17	5.95	85	2.7
<u>Magelona</u> <u>sacculata</u>	47.17	1194.97	36.27	283	8.9
<u>Telepsavus</u> <u>costarum</u>	4.67	5.07	2.36	28	.9
<u>Chaetozone</u> <u>setosa</u>	8.00	17.20	4.35	48	1.5
<u>Brada</u> <u>villosa</u>	3.83	10.57	3.41	23	.7
<u>Mediomastus</u> <u>californiensis</u>	12.50	49.10	7.35	75	2.4
<u>Amphicteis</u> <u>scaphobranchiata</u>	2.50	5.50	2.46	15	.5
APLACOPHORA	2.00	4.00	2.10	12	.4
GASTROPODA	47.33	59.47	8.09	284	8.9
<u>Cylichna</u> <u>attonsa</u>	12.67	16.27	4.23	76	2.4
<u>Kurtzia</u> <u>arteaga</u>	10.83	3.77	2.04	65	2.0
<u>Mitrella</u> <u>gouldii</u>	3.50	9.10	3.17	21	.7
SCAPHOPODA	7.83	14.57	4.00	47	1.5
<u>Cadulus</u> <u>fusiformis</u>	5.00	2.80	1.76	30	.9
BIVALVIA	19.17	17.37	4.37	115	3.6
<u>Astarte</u> sp.	5.17	2.17	1.54	31	1.0
<u>Compsomyx</u> <u>subdiaphana</u>	4.33	8.67	3.09	26	.8
CRUSTACEA	65.50	97.50	10.36	393	12.3
<u>Euphilomedes</u> <u>carcharodonta</u>	7.33	1.47	1.27	44	1.4
<u>Hemilamprops</u> <u>californica</u>	3.83	2.57	1.68	23	.7
<u>Ampelisca</u> <u>compressa</u>	2.33	4.27	2.17	14	.4

Table 43 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Paraphoxus variatus</u>	20.00	28.40	5.59	120	3.8
<u>Pinnixa</u> ? <u>franciscana</u> juv.	11.67	101.47	10.57	70	2.2
<u>Pinnixa</u> ? <u>occidentalis</u> juv.	2.33	6.27	2.63	14	.4
OPHIUROIDEA	5.50	21.90	4.91	33	1.0
<u>Amphioplus hexacanthus</u>	3.33	10.27	3.36	20	.6
HOLOTHUROIDEA	2.00	2.00	1.48	12	.4

Table 44

Major classes and species of organisms at
Station 1156, 3 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 111

Total number of individuals: 1971

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polycheata	58	52
Gastropoda	14	13
Bivalvia	16	14
Crustacea	17	15
Ophiuroidea	<u>3</u>	<u>3</u>
Total	108	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S2</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	85.00	269.60	17.23	510	25.9
<u>Thalenessa spinosa</u>	3.50	5.10	2.37	21	1.1
<u>Glycinde</u> sp. a	2.17	2.57	1.68	13	.7
<u>Nothria elegans</u>	2.17	1.37	1.23	13	.7
<u>Paraprionospio pinnata</u>	2.33	2.67	1.71	14	.7
<u>Spiophanes bombyx</u>	5.33	4.67	2.27	32	1.6
<u>Spiophanes missionensis</u>	4.17	7.77	2.92	25	1.3
<u>Spiophanes</u> sp.a	3.17	4.57	2.24	19	1.0
<u>Magelona</u> nr. <u>pitelkai</u>	9.00	11.20	3.51	54	2.7

Table 44 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Magelona sacculata</u>	4.00	2.80	1.76	24	1.2
<u>Chaetozone setosa</u>	4.83	8.17	3.00	29	1.5
<u>Brada villosa</u>	4.00	12.80	3.75	24	1.2
<u>Mediomastus californiensis</u>	2.83	2.57	1.68	17	.9
GASTROPODA	46.67	25.87	5.34	280	14.2
<u>Rictaxis punctocaelatus</u>	2.67	2.67	1.71	16	.8
<u>Cyllichna attonsa</u>	10.50	10.70	3.43	63	3.2
<u>Volvulella cylindrica</u>	4.67	10.27	3.36	28	1.4
<u>Kurtzia arteaga</u>	8.67	3.47	1.95	52	2.6
<u>Mitrella gouldii</u>	5.67	17.07	4.33	34	1.7
SCAPHOPODA	6.83	22.57	4.98	41	2.1
<u>Cadulus fusiformis</u>	6.33	19.47	4.63	38	1.9
BIVALVIA	48.00	211.60	15.26	288	14.6
<u>Compsomyx subdiaphana</u>	5.83	10.17	3.35	35	1.8
<u>Macoma yoldiformis</u>	14.00	37.60	6.43	84	4.3
<u>Mysella aleutica</u>	2.83	4.57	2.24	17	.9
<u>Nuculana taphrina</u>	12.33	27.47	5.50	74	3.8
<u>Nucula tenuis</u>	2.00	2.00	1.48	12	.6
<u>Siliqua patula</u>	3.00	4.40	2.20	18	.9
<u>Solen sicarius</u>	2.00	1.20	1.15	12	.6
CRUSTACEA	82.33	612.67	25.97	494	25.1
<u>Euphilomedes carcharodonta</u>	3.17	1.37	1.23	19	1.0
<u>Hemilamprops californica</u>	6.50	9.90	3.30	39	2.0

Table 44 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Ampelisca compressa</u>	2.33	11.07	3.49	14	.7
<u>Paraphoxus variatus</u>	8.33	19.47	4.63	50	2.5
<u>Pinnixa</u> ? <u>franciscana</u> juv.	35.00	153.20	12.99	210	10.7
<u>Pinnixa</u> ? <u>occidentalis</u> juv.	2.50	5.10	2.37	15	.8
OPHIUROIDEA	27.33	167.47	13.58	164	8.3
<u>Amphiodia urtica</u>	4.50	44.70	7.01	27	1.4
<u>Amphioplus hexacanthus</u>	21.17	63.77	8.38	127	6.4

Table 45

Major classes and species of organisms at
Station 1152, 10 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 112

Total number of individuals: 1591

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	60	54
Gastropoda	12	11
Bivalvia	15	13
Crustacea	20	18
Ophiuroidea	<u>3</u>	<u>3</u>
Total	110	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	81.00	443.20	22.09	486	30.5
<u>Pholoe glabra</u>	2.33	2.27	1.58	14	.9
<u>Thalenessa spinosa</u>	3.83	.57	.79	23	1.4
<u>Nephtys caecoides</u>	2.00	4.00	2.10	12	.7
<u>Spiophanes bombyx</u>	9.33	11.87	3.61	56	3.5
<u>Spiophanes sp. a</u>	9.83	15.77	4.17	59	3.7
<u>Magelona nr. pitelkai</u>	3.50	11.90	3.62	21	1.3
<u>Magelona sacculata</u>	2.50	7.50	2.87	15	.9
<u>Sternaspis fessor</u>	4.17	2.17	1.54	25	1.6

Table 45 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Mediomastus californiensis</u>	4.17	12.17	3.66	25	1.6
GASTROPODA	30.17	19.77	4.66	181	11.4
<u>Rictaxis punctocaelatus</u>	2.17	9.77	3.28	13	.8
<u>Cylichna attonsa</u>	8.17	19.37	4.62	49	3.1
<u>Volvulella cylindrica</u>	2.00	2.40	1.63	12	.8
<u>Kurtzia arteaga</u>	2.00	4.40	2.20	12	.8
<u>Mitrella gouldii</u>	2.83	.97	1.03	17	1.1
SCAPHOPODA	4.33	1.47	1.27	26	1.6
<u>Cadulus fusiformis</u>	2.50	.70	.88	15	.9
BIVALVIA	39.83	58.57	8.03	239	15.0
<u>Astarte sp.</u>	2.00	1.60	1.33	12	.8
<u>Axinospida sp.</u>	5.83	6.97	2.77	35	2.2
<u>Cooperella subdiaphana</u>	2.17	2.17	1.54	13	.8
<u>Macoma yoldiformis</u>	9.17	4.57	2.24	55	3.5
<u>Mysella aleutica</u>	4.17	8.57	3.07	25	1.6
<u>Nuculana taphrina</u>	4.17	2.97	1.81	25	1.6
<u>Siliqua patula</u>	6.67	21.47	4.86	40	2.5
<u>Solen sicarius</u>	2.00	.80	.94	12	.8
CRUSTACEA	56.67	293.87	17.99	340	21.4
<u>Euphilomedes carcharodonta</u>	7.33	9.07	3.16	44	2.8
<u>Hemilamprops californica</u>	3.33	5.47	2.45	20	1.3
<u>Ampelisca compressa</u>	6.67	29.07	5.66	40	2.5
<u>Ampelisca cristata</u>	2.00	3.60	1.99	12	.8

Table 45 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Paraphoxus bicuspidata</u>	4.17	1.77	1.39	25	1.6
<u>Paraphoxus variatus</u>	3.17	2.57	1.68	19	1.2
OPHIUROIDEA	19.67	23.47	5.08	118	7.4
<u>Amphiodia urtica</u>	9.50	10.70	3.43	57	3.6
<u>Amphioplus hexacanthus</u>	8.83	14.17	3.95	53	3.3

Table 46

Major classes and species of organisms at
Station 1176, 10 May 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 132

Total number of individuals: 1783

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	73	55
Gastropoda	10	8
Bivalvia	18	14
Crustacea	24	18
Ophiuroidea	<u>3</u>	<u>2</u>
Total	128	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	135.83	165.37	13.49	815	45.7
<u>Nephtys ferruginea</u>	2.00	3.20	1.88	12	.7
<u>Glycera capitata</u>	5.33	6.67	2.71	32	1.8
<u>Lumbrineris cruzensis</u>	5.50	5.10	2.37	33	1.9
<u>Lumbrineris luti</u>	7.17	5.37	2.43	43	2.4
<u>Ninoe sp. a</u>	3.00	3.60	1.99	18	1.0
<u>Prionospio malmgreni</u>	3.67	1.87	1.43	22	1.2
<u>Paraprionospio pinnata</u>	20.50	76.30	9.16	123	6.9
<u>Spiophanes bombyx</u>	28.83	37.37	6.41	173	9.7

Table 46 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Spiophanes missionensis</u>	4.17	1.37	1.23	25	1.4
<u>Spiophanes</u> sp. a	2.33	2.27	1.58	14	.8
<u>Sternaspis fossor</u>	6.17	7.37	2.85	37	2.1
<u>Mediomastus californiensis</u>	3.33	3.87	2.06	20	1.1
<u>Maldane cristata</u>	3.00	1.60	1.33	18	1.0
<u>Myriochele heeri</u>	2.00	2.80	1.76	12	.7
<u>Terabellides stroemi</u>	2.00	4.80	2.30	12	.7
APLACOPHORA	2.50	2.30	1.59	15	.8
GASTROPODA	18.33	55.47	7.81	110	6.2
<u>Cylichna attonsa</u>	4.50	11.50	3.56	27	1.5
<u>Kurtzia arteaga</u>	5.00	8.00	2.97	30	1.7
<u>Mitrella gouldii</u>	2.67	3.07	1.84	16	.9
SCAPHOPODA	2.67	3.47	1.95	16	.9
<u>Cadulus fusiformis</u>	2.17	2.97	1.81	13	.7
BIVALVIA	38.00	113.60	11.18	228	12.8
<u>Astarte</u> sp.	2.67	4.27	2.17	16	.9
<u>Axinospida</u> sp.	20.50	57.50	7.96	123	6.9
CRUSTACEA	49.17	56.57	7.89	295	16.5
<u>Hemilamprops californica</u>	5.00	5.20	2.39	30	1.7
<u>Paraphoxus bicuspidatus</u>	2.33	1.87	1.43	14	.8
<u>Paraphoxus similis</u>	2.17	2.57	1.68	13	.7
<u>Paraphoxus variatus</u>	3.17	2.97	1.81	19	1.1
<u>Pinnixa ? occidentalis</u> juv.	17.00	62.80	8.31	102	5.7

Table 46 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
OPHIUROIDEA	31.00	128.80	11.91	186	10.4
<u>Amphiodia urtica</u>	27.83	113.37	11.17	167	9.4
HOLOTHURIODEA	2.83	.97	1.03	17	1.0

Table 47

Major classes and species of organisms at
Station 1155, 3 May 1972

Summary: completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 120

Total number of individuals: 1894

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	61	51
Gastropoda	11	9
Bivalvia	20	17
Crustacea	21	18
Ophiuroidea	<u>4</u>	<u>3</u>
Total	117	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	110.17	305.77	18.35	661	34.9
<u>Glycera capitata</u>	3.17	2.97	1.81	19	1.0
<u>Onuphis parva</u>	2.83	2.17	1.54	17	.9
<u>Lumbrineris luti</u>	14.50	31.10	5.85	87	4.6
<u>Ninoe sp. a</u>	11.17	26.17	5.37	67	3.5
<u>Paraonis ivanovi</u>	3.33	3.87	2.06	20	1.1
<u>Paraprionospio pinnata</u>	22.83	154.57	13.04	137	7.2
<u>Spiophanes missionensis</u>	2.00	3.20	1.88	12	.6
<u>Sternaspis fossor</u>	3.67	1.07	1.08	22	1.2

Table 47 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Maldane cristata</u>	5.17	2.17	1.54	31	1.6
<u>Terebellides stroemi</u>	3.33	14.67	4.02	20	1.1
APLACOPHORA	2.67	2.67	1.71	16	.8
GASTROPODA	26.50	72.70	8.95	159	8.4
<u>Cylichna attonsa</u>	6.67	18.27	4.48	40	2.1
<u>Volvulella cylindrica</u>	2.17	.97	1.03	13	.7
<u>Kurtzia arteaga</u>	8.17	15.77	4.17	49	2.6
<u>Mitrella gouldii</u>	4.83	10.57	3.41	29	1.5
SCAPHOPODA	10.00	33.20	6.05	60	3.2
<u>Cadulus fusiformis</u>	7.83	20.57	4.76	47	2.5
BIVALVIA	41.50	87.10	9.79	249	13.1
<u>Astarte</u> sp.	7.17	5.37	2.43	43	2.3
<u>Axinospida</u> ap.	18.00	12.80	3.75	108	5.7
<u>Nucula tenuis</u>	2.67	2.27	1.58	16	.8
CRUSTACEA	54.33	705.87	27.88	326	17.2
<u>Byblis veleronis</u>	2.00	2.40	1.63	20	.6
<u>Paraphoxus bicuspidatus</u>	2.67	.67	.86	16	.8
<u>Paraphoxus similis</u>	2.00	1.60	1.33	12	.6
<u>Pinnixa ? occidentalis</u> juv.	9.50	86.70	9.77	57	3.0
ARACHNOIDEA	4.00	8.80	3.11	24	1.3
<u>Ammothella</u> sp. a	4.00	8.80	3.11	24	1.3
OPHTHUROIDEA	42.50	508.70	23.66	255	13.5
<u>Amphiodia urtica</u>	38.17	446.17	22.16	229	12.1
HOLOTHUROIDEA	6.17	4.97	2.34	37	2.0

Table 48

Major classes and species of organisms at
station 1105, 22 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 10

Total number of identified species: 79

Total number of individuals 2196

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	41	52
Gastropoda	3	4
Bivalvia	18	23
Crustacea	15	19
Ophiuroidea	<u>1</u>	<u>1</u>
Total	78	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl</u>
POLYCHATEA	49.50	136.72	8.36	495	22.5
<u>Nothria elegans</u>	3.20	4.84	1.57	32	1.5
<u>Lumbrineris luti</u>	3.10	2.99	1.24	31	1.4
<u>Haploscoloplos pugettensis</u>	2.30	4.46	1.51	23	1.0
<u>Phylo felix</u>	3.70	10.01	2.26	37	1.7
<u>Prionospio pygmaeus</u>	5.80	9.51	2.20	58	2.6
<u>Spiophanes bombyx</u>	3.80	3.51	1.34	38	1.7
<u>Magelona sacculata</u>	11.50	40.28	4.54	115	5.2
GASTROPODA	8.60	18.49	3.07	86	3.9

Table 48 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Olivella pycna</u>	3.00	5.56	1.68	30	1.4
BIVALVIA	48.40	123.82	7.95	484	22.0
<u>Macoma yoldiformis</u>	7.10	12.10	2.49	71	3.2
<u>Protothaca satminea</u>	14.40	15.17	2.78	145	6.6
<u>Tellina modesta</u>	18.90	49.21	5.01	189	8.6
CRUSTACEA	107.10	473.66	15.55	1071	48.8
<u>Euphilomedes carcharodonta</u>	86.30	387.79	14.07	863	39.3
<u>Eohaustorius sencillus</u>	3.40	8.04	2.03	34	1.5
<u>Paraphoxus daboius</u>	3.40	6.93	1.88	34	1.5
<u>Paraphoxus epistomus</u>	9.90	16.32	2.89	99	4.5

Table 49

Major classes and species of organisms at
station 1154, 22 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 61

Total number of individuals: 1191

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	26	42
Gastropoda	6	10
Bivalvia	16	26
Crustacea	12	20
Ophiuroidea	<u>1</u>	<u>2</u>
Total	61	100

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	47.50	90.70	9.99	285	23.9
<u>Nephtys caecoides</u>	2.67	1.87	1.43	16	1.3
<u>Glycinde</u> sp. a	2.67	5.47	2.45	16	1.3
<u>Nothria elegans</u>	2.50	7.90	2.95	15	1.3
<u>Lumbrineris luti</u>	4.17	6.17	2.61	25	2.1
<u>Haploscoloplos pugettensis</u>	4.50	.70	.88	27	2.3
<u>Phylo felix</u>	4.33	9.07	3.16	26	2.2
<u>Prionospio pygmaeus</u>	3.83	5.37	2.43	23	1.9
<u>Spiophanes bombyx</u>	3.17	2.97	1.81	19	1.6

Table 49 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Chaetozone setosa</u>	4.00	1.60	1.33	24	2.0
GASTROPODA	11.67	27.47	5.50	70	5.9
<u>Kurtziella plumbea</u>	2.33	15.47	4.13	14	1.2
<u>Olivella pycna</u>	4.00	9.60	3.25	24	2.0
BIVALVIA	44.33	359.07	19.88	266	22.3
<u>Cooperella subdiaphana</u>	3.17	4.57	2.24	19	1.6
<u>Macoma yoldiformis</u>	10.17	41.37	6.75	61	5.1
<u>Tellina modesta</u>	22.33	120.27	11.51	134	11.3
CRUSTACEA	91.50	53.90	7.70	549	46.1
<u>Euphilomedes carcharodonta</u>	82.00	80.40	9.41	492	41.3
<u>Paraphoxus daboius</u>	7.83	58.97	8.06	47	3.9

Table 50

Major classes and species of organisms at
station 1153, 23 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 103

Total number of individuals : 1387

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	49	48
Gastropoda	9	9
Bivalvia	17	17
Crustacea	25	24
Ophiuroidea	<u>1</u>	<u>1</u>
Total	101	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	63.67	1213.47	36.55	382	27.5
<u>Glycera convoluta</u>	3.00	4.00	2.10	18	1.3
<u>Glycinde</u> sp. a	3.00	4.00	2.10	18	1.3
<u>Nothria elegans</u>	8.83	57.77	7.97	53	3.8
<u>Lumbrineris luti</u>	9.83	74.17	9.04	59	4.3
<u>Haploscoloplos pugettensis</u>	2.00	4.40	2.20	12	.9
<u>Prionospio pygmaeus</u>	2.67	8.27	3.02	16	1.2
<u>Spiophanes bombyx</u>	2.17	3.77	2.04	13	.9
<u>Chaetozone setosa</u>	3.17	5.77	2.52	19	2.0

Table 50 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Scalibregma inflatum</u>	4.67	21.87	4.91	28	2.0
<u>Ampharete</u> nr. <u>labrops</u>	6.50	195.50	14.67	39	2.8
GASTROPODA	40.67	1128.67	35.25	244	17.6
<u>Alvinia acutelirata</u>	9.50	394.70	20.84	57	4.1
<u>Kurtziella plumbea</u>	2.67	2.27	1.58	16	1.2
<u>Mitrella tuberosa</u>	1.83	20.17	4.71	11	.8
<u>Nassarius mendicus</u>	4.67	32.67	6.00	28	2.0
<u>Olivella pycna</u>	12.83	62.57	8.30	77	5.6
BIVALVIA	48.83	298.17	18.12	293	21.1
<u>Cooperella subdiaphana</u>	2.67	2.27	1.58	16	1.2
<u>Macoma yoldiformis</u>	4.50	5.90	2.55	27	1.9
<u>Modiolus rectus</u>	4.00	62.80	8.31	24	1.7
<u>Nuculana taphrina</u>	5.17	13.37	3.84	31	2.2
<u>Pandora punctata</u>	3.17	2.57	1.68	19	1.4
<u>Protothaca staminea</u>	3.00	2.00	1.48	18	1.3
<u>Siliqua patula</u>	5.83	12.57	3.72	35	2.5
<u>Tellina modesta</u>	13.67	112.67	11.14	82	5.9
CRUSTACEA	69.50	1213.10	36.54	417	30.1
<u>Euphilomedes carcharodonta</u>	30.83	135.37	12.21	185	13.3
<u>Hemilamprops californica</u>	2.00	1.60	1.33	12	.9
<u>Bathycopea daltonae</u>	4.50	19.90	4.68	27	1.9
<u>Ampelisca cristata</u>	3.33	5.87	2.54	20	1.4
<u>Aoroides columbiae</u>	3.00	54.00	7.71	18	1.3
<u>Protomedeia (C.) zotea</u>	7.17	244.17	16.39	43	3.1

Table 51

Major classes and species of organisms at
station 1159, 22 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 113

Total number of individuals: 2878

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	60	53
Gastropoda	12	11
Bivalvia	17	15
Crustacea	20	18
Ophiuroidea	<u>1</u>	<u>1</u>
Total	110	98

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	148.33	2205.07	49.27	890	30.9
<u>Gyotia brevipalpa</u>	2.17	2.97	1.81	13	.5
<u>Neris zonata</u>	2.00	6.40	2.65	12	.4
<u>Glycera americana</u>	3.17	6.57	2.69	19	.7
<u>Glycinde sp. a</u>	6.00	6.40	2.65	36	1.3
<u>Nothria elegans</u>	10.33	27.87	5.54	62	2.2
<u>Lumbrineris luti</u>	27.83	212.17	15.28	167	5.8
<u>Haploscoloplos pugettensis</u>	12.00	3.20	1.88	72	2.5
<u>Pseudopolydora sp. a</u>	2.83	9.77	3.28	17	.6
<u>Magelona sacculata</u>	4.67	21.47	4.86	28	1.0

Table 51 (continued)

<u>Taxa</u>	<u>Mean $\frac{x}{n}$</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
<u>Scalibregma inflatum</u>	17.00	14.00	3.93	102	3.5
<u>Heteromastus filobranhus</u>	2.00	2.40	1.63	12	.4
<u>Mediomastus californiensis</u>	4.00	6.80	2.74	24	.8
<u>Notomastus (C.) tenuis</u>	8.00	17.60	4.40	48	1.7
<u>Axiiothella robrocincta</u>	3.17	3.77	2.04	19	.7
<u>Ampharete nr. labrops</u>	9.00	347.60	19.56	54	1.9
GASTROPODA	45.50	1248.70	37.08	273	9.5
<u>Cylichna attonsa</u>	4.17	7.37	2.85	25	.9
<u>Alvinia acutelirata</u>	7.83	223.37	15.68	47	1.6
<u>Mitrella gouldii</u>	5.00	106.40	10.82	30	1.0
<u>Nassarius mendicus</u>	9.67	111.47	11.08	58	2.0
<u>Olivella pycna</u>	3.17	3.77	2.04	19	.7
BIVALVIA	158.00	4398.40	69.58	948	32.9
<u>Macoma yoldiformis</u>	15.50	243.50	16.37	93	3.2
<u>Mya arenaria</u>	2.50	17.50	4.39	15	.5
<u>Mysella aleutica</u>	8.67	14.27	3.96	52	.9
<u>Nuculana taphrina</u>	3.67	6.67	2.71	22	.8
<u>Protothaca staminea</u>	4.00	3.60	1.99	24	.8
<u>Siliqua patula</u>	4.00	20.40	4.74	24	.8
<u>Tellina modesta</u>	108.00	2254.40	49.82	648	22.5
<u>Transennella tantilla</u>	3.50	18.30	4.49	21	.7
CRUSTACEA	104.83	12504.97	117.33	629	21.9
<u>Euphilomedes carcharodonta</u>	40.67	219.87	15.56	244	8.5
<u>Ampelisca cristata</u>	4.50	3.50	1.96	27	.9

Table 51 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Photis brevipes</u>	9.00	486.00	23.13	54	1.9
<u>Protomedeia (C.) zotea</u>	5.50	168.70	13.63	33	1.1
<u>Caprella californica</u>	8.33	397.07	20.91	50	1.7
<u>Caprella mendax</u>	3.33	66.67	8.57	20	.7
<u>Tritella pilimana</u>	2.17	28.17	5.57	13	.5

Table 52

Major classes and species of organisms at
station 1158, 22 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 94

Total number of individuals: 1452

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	52	55
Gastropoda	11	12
Bivalvia	14	15
Crustacea	14	15
Ophiuroidea	<u>2</u>	<u>2</u>
Total	93	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	46.83	44.57	7.00	281	19.4
<u>Glycinde</u> sp. a	3.67	6.27	2.63	22	1.5
<u>Nothria elegans</u>	7.50	14.30	3.97	45	3.1
<u>Spiophanes bombyx</u>	2.00	1.60	1.33	12	.8
<u>Magelona</u> nr. <u>pitelkai</u>	3.33	3.87	2.06	20	1.4
<u>Magelona sacculata</u>	2.83	.17	.43	17	1.2
<u>Mediomastus californiensis</u>	2.83	.97	1.03	17	1.2
GASTROPODA	16.33	96.67	10.32	98	6.7
<u>Cylichna attonsa</u>	3.83	5.77	2.52	23	1.6
<u>Mitrella gouldii</u>	3.50	15.50	4.13	21	1.4

Table 52 (continued)

<u>Taxa</u>	Mean $\frac{\#}{.1m^2}$	<u>S²</u>	Conf. limits	Total #	% of total sp. Cl.
BIVALVIA	36.67	181.07	14.12	220	15.2
<u>Macoma yoldiformis</u>	9.67	31.47	5.89	58	4.0
<u>Mysella aleutica</u>	2.67	.67	.86	16	1.1
<u>Nuculana taphrina</u>	15.50	54.70	7.76	93	6.4
<u>Protothaca staminea</u>	2.17	.57	.79	13	.9
CRUSTACEA	76.33	151.07	12.90	458	31.5
<u>Euphilomedes carcharodonta</u>	56.67	150.27	12.86	340	23.4
<u>Ampelisca cristata</u>	8.00	6.80	2.74	48	3.3
<u>Paraphoxus daboius</u>	4.83	9.37	3.21	29	2.0

Table 53

Major classes and species of organisms at
station 1177, 23 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 97

Total number of individuals : 1019

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	54	56
Gastropoda	11	11
Bivalvia	9	9
Crustacea	18	19
Ophiuroidea	<u>2</u>	<u>2</u>
Total	94	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	59.17	105.37	10.77	355	34.8
<u>Thalenessa spinosa</u>	3.17	1.77	1.39	19	1.9
<u>Glycinde sp. a</u>	3.50	4.30	2.18	21	2.1
<u>Prionospio malmgreni</u>	3.33	3.47	1.95	20	2.0
<u>Spiophanes bombyx</u>	5.00	11.60	3.57	30	2.9
<u>Magelona nr. pitelkai</u>	4.67	11.07	3.49	28	2.7
<u>Magelona sacculata</u>	4.50	11.10	3.50	27	2.6
<u>Chaetozone setosa</u>	4.50	2.30	1.59	27	2.6
GASTROPODA	26.33	94.27	10.19	158	15.5

Table 53 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Cyllichna attonsa</u>	6.33	10.67	3.43	38	3.7
<u>Epitonium tinctum</u>	2.33	9.07	3.16	14	1.4
<u>Kurtzia arteaga</u>	3.50	3.50	1.96	21	2.1
<u>Mitrella gouldii</u>	5.83	31.37	5.88	35	3.4
SCAPHOPODA	4.17	4.57	2.24	25	2.5
<u>Cadulus fusiformis</u>	3.50	5.90	2.55	21	2.1
BIVALVIA	14.67	18.27	4.48	88	8.6
<u>Compsomyx subdiaphana</u>	2.00	2.40	1.63	12	1.2
<u>Cooperella subdiaphana</u>	3.50	3.10	1.85	21	2.1
<u>Macoma yoldiformis</u>	2.50	1.10	1.10	15	1.5
<u>Nuculana taphrina</u>	2.17	4.57	2.24	13	1.3
CRUSTACEA	34.67	269.87	17.24	208	20.4
<u>Hemilamprops californica</u>	5.50	9.10	3.17	33	3.2
<u>Ampelsica cristata</u>	3.33	3.87	2.06	20	2.0
<u>Protomedea (C.) zotea</u>	3.17	46.57	7.16	19	1.9
<u>Paraphoxus epistomus</u>	10.33	4.27	2.17	62	6.1
OPHIUROIDEA	10.50	55.50	7.82	63	6.2
<u>Amphiodia urtica</u>	3.83	2.97	1.81	23	2.3
<u>Amphioplus hexacanthus</u>	5.83	46.57	7.16	35	3.4

Table 54

Major classes and species of organisms at
station 1175, 23 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 99

Total number of individuals: 1465

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	52	53
Gastropoda	11	11
Bivalvia	16	16
Crustacea	16	16
Ophiuroidea	<u>3</u>	<u>3</u>
Total	98	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	89.50	230.70	15.94	537	36.7
<u>Lumbrineris luti</u>	2.00	4.40	2.20	12	.8
<u>Prionospio malmgreni</u>	2.67	1.87	1.43	16	1.1
<u>Spiophanes missionensis</u>	2.00	5.20	2.39	12	.8
<u>Spiophanes</u> sp. a	2.00	8.40	3.04	12	.8
<u>Magelona</u> nr. <u>pitelkai</u>	4.00	5.60	2.48	24	1.6
<u>Magelona</u> <u>sacculata</u>	35.67	563.87	24.91	214	14.6
<u>Chaetozone</u> <u>setosa</u>	2.33	5.07	2.36	14	1.0
GASTROPODA	32.67	77.87	9.26	196	13.4

Table 54 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Cylichna attonsa</u>	7.83	24.57	5.20	47	3.2
<u>Kurtzia arteaga</u>	5.50	26.30	5.38	33	2.3
<u>Mitrella gouldii</u>	8.17	26.97	5.45	49	3.3
SCAPHOPODA	4.67	11.07	3.49	28	1.9
<u>Cadulus fusiformis</u>	3.00	3.60	1.99	18	1.2
BIVALVIA	18.67	255.07	16.76	112	7.6
<u>Astarte</u> sp.	2.83	11.37	3.54	17	1.2
<u>Axinospida</u> sp.	5.67	68.27	8.67	34	2.3
<u>Nuculana taphrina</u>	2.83	2.97	1.81	17	1.2
CRUSTACEA	42.83	252.57	16.67	257	17.5
<u>Euphilomedes carcharodonta</u>	21.67	441.87	22.05	130	8.9
<u>Paraphoxus epistomus</u>	2.17	5.77	2.52	13	.9
<u>Paraphoxus variatus</u>	12.00	270.40	17.25	72	4.9
OPHIUROIDEA	4.50	15.50	4.13	27	1.8

Table 55

Major classes and species of organisms at
station 1156, 22 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 120

Total number of individuals: 1401

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	68	57
Gastropoda	14	12
Bivalvia	15	13
Crustacea	17	14
Ophiuroidea	<u>3</u>	<u>3</u>
Total	117	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	75.33	141.87	12.50	452	32.3
<u>Pholoe glabra</u>	3.17	2.97	1.81	19	1.4
<u>Nephtys caecoides</u>	2.17	2.57	1.68	13	.9
<u>Aricidea</u> nr. <u>suecica</u>	2.17	2.57	1.68	13	.9
<u>Spiophanes bombyx</u>	8.00	9.20	3.18	48	3.4
<u>Magelona</u> nr. <u>pitelkai</u>	6.83	6.57	2.69	41	2.9
<u>Cossura rostrata</u>	3.33	11.87	3.61	20	1.4
<u>Sternaspis fossor</u>	4.00	6.40	2.65	24	1.7
<u>Mediomastus californiensis</u>	5.17	3.77	2.04	31	2.2

Table 55 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
GASTROPODA	32.17	147.37	12.74	193	13.8
<u>Cylichna attonsa</u>	9.17	16.17	4.22	55	3.9
<u>Volvulella cylindrica</u>	2.00	1.60	1.33	12	.9
<u>Kurtzia arteaga</u>	7.00	24.40	5.18	42	3.0
<u>Mitrella gouldii</u>	4.17	19.37	4.62	25	1.8
SCAPHOPODA	6.33	3.07	1.84	38	2.7
<u>Cadulus fusiformis</u>	5.33	5.07	2.36	32	2.3
BIVALVIA	27.50	121.10	11.55	165	11.8
<u>Astarte</u> sp.	2.00	1.60	1.33	12	.9
<u>Compsomyx subdiaphana</u>	3.67	2.67	1.71	22	1.6
<u>Cooperella subdiaphana</u>	2.50	17.90	4.44	15	1.1
<u>Macoma yoldiformis</u>	8.33	15.47	4.13	50	3.6
<u>Myrella aleutica</u>	2.83	7.77	2.92	17	1.2
<u>Nucula tenuis</u>	2.17	1.37	1.23	13	.9
<u>Nuculana taphrina</u>	2.00	.80	.94	12	.9
CRUSTACEA	31.50	3.90	2.07	189	13.5
<u>Euphilomedes carcharodonta</u>	3.00	4.80	2.30	18	1.3
<u>Hemilamprops californica</u>	5.50	3.90	2.07	33	2.4
<u>Paraphoxus bicuspidatus</u>	2.83	4.57	2.24	17	1.2
<u>Paraphoxus variatus</u>	10.17	4.97	2.34	61	4.4
OPHIUROIDEA	28.50	24.30	5.17	171	12.2
<u>Amphiodia urtica</u>	22.17	29.37	5.69	133	9.5
<u>Amphioplus hexacanthus</u>	2.67	11.87	3.61	16	1.1

Table 56

Major classes and species of organisms at
station 1152, 23 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 115

Total number of individuals: 1201

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	64	56
Gastropoda	13	11
Bivalvia	15	13
Crustacea	18	16
Ophiuroidea	<u>3</u>	<u>3</u>
Total	113	99

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	69.00	28.80	5.63	414	34.5
<u>Thalenessa spinosa</u>	4.00	2.00	1.48	24	2.0
<u>Nephtys caecoides</u>	2.17	1.77	1.39	13	1.1
<u>Glycinde</u> sp. a	2.50	1.50	1.29	15	1.2
<u>Aricidia</u> nr. <u>suecica</u>	2.33	.27	.54	14	1.2
<u>Paraprionospio pinnata</u>	2.17	2.97	1.81	13	1.1
<u>Spiophanes bombyx</u>	2.83	6.17	2.61	17	1.4
<u>Magelona</u> nr. <u>pitelkai</u>	3.17	17.77	4.42	19	1.6
<u>Brada villosa</u>	2.17	.57	.79	13	1.1

Table 56 (continued)

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
<u>Sternaspis</u> <u>fossor</u>	3.33	2.27	1.58	20	1.7
<u>Mediomastus</u> <u>californiensis</u>	4.83	32.57	5.99	29	2.4
<u>Praxillella</u> <u>affinis</u> <u>pacifica</u>	2.33	3.47	1.95	14	1.2
<u>Owenia</u> <u>collaris</u>	2.83	2.57	1.68	17	1.4
GASTROPODA	17.83	46.17	7.13	107	8.9
<u>Cylichna</u> <u>attonsa</u>	6.33	14.67	4.02	38	3.2
SCAPHOPODA	4.83	10.17	3.35	29	2.4
<u>Cadulus</u> <u>fusiformis</u>	4.83	10.17	3.35	29	2.4
RIVALVIA	22.33	15.87	4.18	170	14.2
<u>Axinospida</u> sp.	4.67	10.27	3.36	28	2.3
<u>Macoma</u> <u>yoldiformis</u>	5.33	7.47	2.87	32	2.7
<u>Mysella</u> <u>aelutica</u>	4.50	2.70	1.72	27	2.2
<u>Nuculana</u> <u>taphrina</u>	5.50	2.70	1.72	33	2.7
CRUSTACEA	36.50	21.50	4.86	219	18.2
<u>Euphilomedes</u> <u>carcharodonta</u>	14.33	11.07	3.49	86	7.2
<u>Hemilamprops</u> <u>californica</u>	2.33	4.27	2.17	14	1.2
<u>Ampelisca</u> <u>cristata</u>	3.17	6.97	2.77	19	1.6
<u>Paraphoxus</u> <u>bicuspidatus</u>	2.33	3.07	1.84	14	1.2
<u>Paraphoxus</u> <u>variatus</u>	4.00	1.60	1.33	24	2.0
OPHIUROIDEA	19.17	44.17	6.97	115	9.6
<u>Amphiodia</u> <u>urtica</u>	7.50	4.30	2.18	45	3.7
<u>Amphioplus</u> <u>hexacanthus</u>	10.50	42.70	6.86	63	5.2

Table 57

Major classes and species of organisms at
station 1176, 23 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 115

Total number of individuals: 1115

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	69	60
Gastropoda	7	6
Bivalvia	12	10
Crustacea	20	17
Ophiuroidea	<u>3</u>	<u>3</u>
Total	111	96

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	72.50	77.50	9.24	435	39.0
<u>Glycera capitata</u>	2.83	.57	.79	17	1.5
<u>Lumbrineris cruzensis</u>	3.17	.57	.79	19	1.7
<u>Lumbrineris luti</u>	8.50	7.50	2.87	51	4.6
<u>Ninoe</u> sp. a	4.17	28.57	5.61	25	2.2
<u>Paraprionospio pinnata</u>	9.83	38.97	6.55	59	5.3
<u>Sternaspis fossor</u>	2.83	1.37	1.23	17	1.5
<u>Maldane cristata</u>	5.00	6.00	2.57	30	2.7
<u>Terebellides stroemi</u>	3.67	5.87	2.54	22	2.0

Table 57 (continued)

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
APLACOPHORA	2.00	2.40	1.63	12	1.1
GASTROPODA	16.17	28.97	5.65	97	8.7
<u>Cylichna attonsa</u>	2.83	3.77	2.04	17	1.5
<u>Alvinia acutelirata</u>	3.33	5.47	2.45	20	1.8
<u>Kurtzia arteaga</u>	5.00	4.80	2.30	30	2.7
<u>Mitrella gouldii</u>	2.17	3.37	1.93	13	1.2
SCAPHOPODA	2.33	11.47	3.55	14	1.3
BIVALVIA	24.50	39.90	6.63	147	13.2
<u>Axinozoida</u> sp.	17.50	49.50	7.38	105	9.4
CRUSTACEA	21.17	32.97	6.02	127	11.4
<u>Heterophoxus oculatus</u>	2.50	6.30	2.63	15	1.3
<u>Pinnixa occidentalis</u>	7.00	2.00	1.48	42	3.8
OPHIUROIDEA	32.17	55.77	7.84	193	17.3
<u>Amphiodia urtica</u>	23.17	24.17	5.16	139	12.5

Table 58

Major classes and species of organisms at
station 1155, 22 Aug 1972

Summary: Completely sorted and analyzed

Number of replicates: 6

Total number of identified species: 118

Total number of individuals: 2084

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	62	53
Gastropoda	8	7
Bivalvia	19	16
Crustacea	21	18
Ophiuroidea	<u>4</u>	<u>3</u>
Total	114	97

Number of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	130.83	402.97	21.06	785	37.7
<u>Nephtys ferruginea</u>	3.50	3.50	1.96	21	1.0
<u>Glycera capitata</u>	5.83	3.37	1.93	35	1.7
<u>Lumbrineris cruzensis</u>	4.83	8.17	3.00	29	1.4
<u>Lumbrineris luti</u>	18.17	13.37	3.84	109	5.2
<u>Ninos sp. a</u>	7.67	11.47	3.55	46	2.2
<u>Paraonis ivanovi</u>	6.00	19.60	4.64	36	1.7
<u>Paraprionospio pinnata</u>	27.00	59.60	8.10	162	7.8
<u>Spiophanes bombyx</u>	7.17	13.37	3.84	43	2.1

Table 58 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Spiophanes missionensis</u>	2.50	5.90	2.55	15	.7
<u>Sternaspis fossor</u>	3.67	4.67	2.27	22	1.1
<u>Maldane cristata</u>	9.33	148.67	12.79	56	2.7
<u>Terebellides stroemi</u>	2.17	1.77	1.39	13	.6
ARLACHOPHORA	3.67	8.67	3.09	22	1.1
GASTROPODA	18.33	46.67	7.17	110	5.3
<u>Cylichna attonsa</u>	5.67	10.27	3.36	34	1.6
<u>Kurtzia arteaga</u>	6.67	34.67	6.18	40	1.9
<u>Mitrella gouldii</u>	2.50	22.30	4.95	15	.7
SCAPHOPODA	10.83	33.37	6.06	65	3.1
<u>Cadulus fusiformis</u>	7.33	11.47	3.55	44	2.1
BIVALVIA	36.50	111.90	11.10	219	10.5
<u>Astarte</u> sp.	7.50	14.30	3.97	45	2.2
<u>Axinospida</u> sp.	13.50	11.90	3.62	81	3.9
<u>Compsomyx subdiaphana</u>	2.17	5.77	5.25	13	.6
<u>Nucula tenuis</u>	2.67	2.27	1.58	16	.8
<u>Yoldia</u> sp.	2.67	17.07	4.33	16	.8
CRUSTACEA	35.67	15.87	4.18	214	10.3
<u>Gnathia crenulatifrons</u>	3.33	9.47	3.23	20	1.0
<u>Ampelisca hancocki</u>	2.00	.40	.66	12	.6
<u>Byblis veleronis</u>	4.17	2.97	1.81	25	1.2
<u>Paraphoxus bicuspidatus</u>	3.33	5.07	2.36	20	1.0
<u>Paraphoxus variatus</u>	4.17	24.57	5.20	25	1.2
<u>Pinnixa occidentalis</u>	5.00	8.80	3.11	30	1.4

Table 58 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl</u>
ARACHNOIDEA	3.50	9.90	3.30	21	1.0
<u>Ammothella</u> sp. a	3.50	9.90	3.30	21	1.0
OPHIUROIDEA	49.67	639.07	26.52	298	14.3
<u>Amphiodia</u> <u>urtica</u>	29.83	360.97	19.93	179	8.6
HOLOTHUROIDEA	3.33	9.07	3.16	20	1.0

Table 59

Major classes and species of organisms at
Station 1105, 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 12

Total number of identified species: 64

Total number of individuals: 2035

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	38	59
Gastropoda	6	9
Bivalvia		
Crustacea	18	28
Ophiuroidea	<u>1</u>	<u>2</u>
Total	63	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	51.08	513.36	14.39	613	30.1
<u>Glycera convoluta</u>	2.08	1.90	.88	25	1.2
<u>Nothria elegans</u>	5.42	10.08	2.02	65	3.2
<u>Lumbrineris luti</u>	2.92	9.72	1.98	35	1.7
<u>Haploscoloplos pugettensis</u>	3.42	6.81	1.66	41	2.0
<u>Phylo felix</u>	3.00	10.18	2.03	36	1.8
<u>Prionospio pygmaeus</u>	2.75	6.93	1.67	33	1.6
<u>Siphophanes bombyx</u>	3.08	4.81	1.39	37	1.8
<u>Magelona nr. pitelkai</u>	2.92	37.36	3.88	35	1.7

Table 59 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Magelona sacculata</u>	14.42	36.99	3.86	173	8.5
<u>Chaetozone setosa</u>	3.83	5.79	1.53	46	2.3
GASTROPODA	17.67	45.70	4.29	212	10.4
CRUSTACEA	88.42	311.72	11.21	1061	52.1
<u>Euphilomedes carcharodonta</u>	72.08	255.54	10.15	865	42.5
<u>Paraphoxus daboius</u>	6.92	7.36	1.72	83	4.1
<u>Paraphoxus epistomus</u>	4.83	12.70	2.26	58	2.9
OPHIUROIDEA	2.67	4.06	1.28	32	1.6
ECHINOIDEA	7.00	31.09	3.54	84	4.1

Table 60

Major classes and species of organisms at
Station 1154, 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 61

Total number of individuals: 1067

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	36	59
Gastropoda	10	16
Bivalvia		
Crustacea	14	23
Ophiuroidea	<u>1</u>	<u>2</u>
Total	61	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	65.33	365.47	20.06	392	36.7
<u>Nephtys caecoides</u>	2.33	7.47	2.87	14	1.3
<u>Nothria elegans</u>	2.17	2.17	1.54	13	1.2
<u>Lumbrineris luti</u>	12.33	52.67	7.61	74	6.9
<u>Haploscoloplos pugettensis</u>	11.67	57.07	7.93	70	6.6
<u>Phylo felix</u>	3.00	2.00	1.48	18	1.7
<u>Magelona sacculata</u>	5.17	8.97	3.14	31	2.9
<u>Chaetozone setosa</u>	13.17	68.97	8.71	79	7.4

Table 60 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
GASTROPODA	16.33	60.27	8.15	98	9.2
<u>Kurtziella plumbea</u>	2.17	11.77	3.60	13	1.2
CRUSTACEA	90.17	801.37	29.70	541	50.7
<u>Euphilomedes carcharodonta</u>	84.00	838.00	30.37	504	47.2

Table 61

Major classes and species of organisms at
Station 1153. 18 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 59

Total number of individuals: 749

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	39	66
Gastropoda	4	7
Bivalvia		
Crustacea	15	25
Ophiuroidea	<u>1</u>	<u>2</u>
Total	59	100

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	69.50	489.90	23.22	417	55.7
<u>Glycera convoluta</u>	2.83	6.17	2.61	17	2.3
<u>Nothria elegans</u>	2.00	6.00	2.57	12	1.6
<u>Lumbrineris luti</u>	14.50	47.90	7.26	87	11.6
<u>Haploscoloplos pugettensis</u>	3.17	10.17	3.35	19	2.5
<u>Phylo felix</u>	2.00	2.00	1.48	12	1.6
<u>Chaetozone setosa</u>	2.50	4.30	2.18	15	2.0
<u>Scalibregma inflatum</u>	23.33	253.87	16.72	140	18.7
<u>Amaeana occidentalis</u>	4.00	10.00	3.32	24	3.2

Table 61 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
GASTROPODA	19.83	122.17	11.60	119	15.9
<u>Kurtziella plumbea</u>	2.00	.80	.94	12	1.6
<u>Olivella pycna</u>	10.83	101.77	10.58	65	8.7
CRUSTACEA	27.00	350.40	19.64	162	21.6
<u>Euphilomedes carcharodonta</u>	17.50	179.10	14.04	105	14.0
<u>Cyclaspis nubila</u>	2.00	4.40	2.20	12	1.6
<u>Bathycopea daltonae</u>	2.83	13.37	3.84	17	2.3

Table 62

Major classes and species of organisms at
Station 1159, 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 93

Total number of individuals: 1307

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	67	72
Gastropoda	10	11
Bivalvia		
Crustacea	13	14
Ophiuroidea	<u>1</u>	<u>1</u>
Total	91	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean $\frac{\#}{.1m^2}$</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	129.83	899.77	31.47	779	59.6
<u>Eumida</u> sp.a	2.00	7.60	2.89	12	.9
<u>Langerhansia</u> nr. <u>heterochaeta</u>	2.17	4.57	2.24	13	1.0
<u>Glycera americana</u>	2.33	3.07	1.84	14	1.1
<u>Nothria elegans</u>	12.33	32.67	6.00	74	5.7
<u>Lumbrineris luti</u>	12.50	17.90	4.44	75	5.7
<u>Haploscoloplos pugettensis</u>	9.33	9.87	3.30	56	4.3
<u>Spiophanes</u> sp. a	2.33	2.67	1.71	14	1.1
<u>Heteromastus filobranchus</u>	3.33	3.87	2.06	20	1.5

Table 62 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Mediomastus californiensis</u>	6.50	13.10	3.80	39	3.0
<u>Notomastus (C.) tenuis</u>	6.00	5.60	2.48	36	2.8
<u>Notomastus magnus</u>	2.17	2.17	1.54	13	1.0
<u>Axiothella rubrocincta</u>	2.17	5.37	2.43	13	1.0
? <u>Clymenella</u> sp. a	2.17	7.37	2.85	13	1.0
<u>Ampharete</u> nr. <u>labrops</u>	3.50	19.10	4.59	21	1.6
<u>Amaeana occidentalis</u>	6.00	9.20	3.18	36	2.8
<u>Streblosoma</u> sp. a	2.33	3.07	1.84	14	1.1
GASTROPODA	50.00	410.40	21.26	300	23.0
<u>Cyllichna attonea</u>	6.17	6.17	2.61	37	2.8
<u>Alvinia acutelirata</u>	8.67	8.67	3.09	52	4.0
<u>Mitrella tuberosa</u>	5.50	19.50	4.63	33	2.5
<u>Nassarius mendicus</u>	16.33	197.87	14.76	98	7.5
<u>Scissilabra dalli</u>	5.67	65.87	8.52	34	2.6
SCAPHOPODA	9.50	4.70	2.27	57	4.4
<u>Cadulus fusiformis</u>	8.33	2.67	1.71	50	3.8
CRUSTACEA	9.17	50.17	7.43	55	4.2
<u>Photis brevipes</u>	2.17	23.37	5.07	13	1.0
<u>Pinnixa franciscana</u>	2.00	3.60	1.99	12	.9
ARACHNOIDEA	2.00	2.00	1.48	12	.9
<u>Ammothella</u> sp. a	2.00	2.00	1.48	12	.9

Table 63

Major classes and species of organisms at
Station 1158. 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 67

Total number of individuals: 1309

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	46	69
Gastropoda	9	13
Bivalvia		
Crustacea	9	13
Ophiuroidea	<u>2</u>	<u>3</u>
Total	. 66	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	55.50	31.50	5.89	333	25.4
<u>Thalenessa spinosa</u>	2.67	1.87	1.43	16	1.2
<u>Glycinde sp. a</u>	3.00	2.40	1.63	18	1.4
<u>Nothria elegans</u>	6.33	8.67	3.09	38	2.9
<u>Spiophanes bombyx</u>	2.33	2.67	1.71	14	1.1
<u>Magelona nr. pitelkai</u>	5.17	7.37	2.85	31	2.4
<u>Magelona sacculata</u>	6.33	11.47	3.55	38	2.9
<u>Mediomastus californiensis</u>	4.33	75.07	9.09	26	2.0
<u>Streblosoma sp. a</u>	7.00	12.80	3.75	42	3.2

Table 63 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
GASTROPODA	21.00	44.80	7.02	126	9.6
<u>Cylichna attonsa</u>	4.00	2.00	1.48	24	1.8
SCAPHOPODA	3.33	5.47	2.45	20	1.5
CRUSTACEA	107.33	403.07	21.06	644	49.2
<u>Euphilomedes carcharodonta</u>	97.50	326.30	18.95	585	44.7
<u>Ampelisca cristata</u>	2.50	5.90	2.55	15	1.1
<u>Paraphoxus daboius</u>	4.17	11.37	3.54	25	1.9
OPHIUROIDEA	2.33	5.47	2.45	14	1.1

Table 64

Major classes and species of organisms at
Station 1177, 18 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 69

Total number of individuals: 776

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	45	65
Gastropoda	10	14
Bivalvia		
Crustacea	9	13
Ophiuroidea	<u>3</u>	<u>4</u>
Total	67	96

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	64.33	205.47	15.04	386	49.7
<u>Thalenessa spinosa</u>	4.00	6.40	2.65	24	3.1
<u>Glycinde</u> sp. a	2.50	4.30	2.18	15	1.9
<u>Spiophanes bombyx</u>	6.00	12.80	3.75	36	4.6
<u>Magelona</u> nr. <u>pitelkai</u>	6.33	7.87	2.94	38	4.9
<u>Magelona sacculata</u>	17.17	22.17	4.94	103	13.3
<u>Chaetozone setosa</u>	7.33	3.07	1.84	44	5.7
GASTROPODA	20.17	113.77	11.19	121	15.6
<u>Kurtzia arteaga</u>	3.67	3.87	2.06	22	2.8

Table 64 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Mitrella gouldii</u>	7.33	51.47	7.53	44	5.7
CRUSTACEA	24.00	65.20	8.47	144	18.6
<u>Euphilomedes carcharodonta</u>	6.00	11.20	3.51	36	4.6
<u>Ampelisca compressa</u>	3.17	24.57	5.20	19	2.4
<u>Paraphoxus epistomus</u>	9.67	30.67	5.81	58	7.5
OPHIUROIDEA	9.67	5.87	2.54	58	7.5
<u>Amphiodia urtica</u>	2.67	3.47	1.95	16	2.1
<u>Amphioplus hexacanthus</u>	6.17	4.57	2.24	37	4.8

Table 65

Major classes and species of organisms at
Station 1175, 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 86

Total number of individuals: 1172

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	53	62
Gastropoda	12	14
Bivalvia		
Crustacea	17	20
Ophiuroidea	<u>3</u>	<u>3</u>
Total	85	99

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	95.50	280.30	17.57	573	48.9
<u>Thalenessa spinosa</u>	4.67	5.07	2.36	28	2.4
<u>Phylo felix</u>	7.00	44.00	6.96	42	3.6
<u>Prionospio malmgreni</u>	8.00	10.80	3.45	48	4.1
<u>Magelona nr. pitelkai</u>	3.17	11.37	3.54	19	1.6
<u>Magelona sacculata</u>	28.50	367.90	20.12	171	14.6
<u>Praxillella affinis pacifica</u>	4.17	76.97	9.20	25	2.1
<u>Amphicteis scaphobranchia</u>	3.33	8.67	3.09	20	1.7
GASTROPODA	26.00	166.40	13.53	156	13.3

Table 65 (continued)

<u>Taxa</u>	<u>Mean #</u> <u>/ .1m²</u>	<u>S²</u>	<u>Conf.</u> <u>limits</u>	<u>Total</u> <u>#</u>	<u>% of total</u> <u>sp. Cl.</u>
<u>Kurtzia arteaga</u>	7.17	27.37	5.49	43	3.7
<u>Mitrella gouldii</u>	4.33	13.07	3.79	25	2.2
SCAPHOPODA	6.33	13.07	3.79	38	3.2
<u>Cadulus fusiformis</u>	3.83	4.97	2.34	23	2.0
CRUSTACEA	35.83	150.17	12.86	215	18.3
<u>Euphilomedes carcharodonta</u>	13.33	97.47	10.36	80	6.8
<u>Paraphoxus daboius</u>	8.00	71.20	8.85	48	4.1
<u>Paraphoxus variatus</u>	27.00	2036.00	47.34	162	13.8
OPHIUROIDEA	5.33	22.67	5.00	32	2.7
<u>Amphioplus hexacanthus</u>	2.83	4.57	2.24	17	1.5

Table 66

Major classes and species of organisms at
Station 1156, 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 91

Total number of individuals: 968

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	55	60
Gastropoda	11	12
Bivalvia		
Crustacea	19	21
Ophiuroidea	<u>3</u>	<u>3</u>
Total	88	96

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S2</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	63.33	123.87	11.68	380	39.3
<u>Thalenessa spinosa</u>	2.67	1.87	1.43	16	1.7
<u>Glycinde sp.a</u>	3.17	4.17	2.14	19	2.0
<u>Spiophanes bombyx</u>	5.17	8.57	3.07	31	3.2
<u>Magelona nr. pitelkai</u>	2.67	2.67	1.71	16	1.7
<u>Magelona sacculata</u>	5.33	11.47	3.55	32	3.3
<u>Sternaspis fossor</u>	2.33	7.07	2.79	14	1.4
? <u>Clymenella sp. a</u>	4.33	14.27	3.96	26	2.7
<u>Amaeana occidentalis</u>	5.50	6.70	2.72	33	3.4

Table 66 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
GASTROPODA	23.17	59.37	8.08	139	14.4
<u>Cylichna attensa</u>	6.67	10.67	3.43	40	4.1
<u>Kurtzia arteaga</u>	4.83	7.77	2.92	29	3.0
<u>Mitrella gouldii</u>	3.17	7.77	2.92	19	2.0
SCAPHOPODA	5.33	2.27	1.58	32	3.3
CRUSTACEA	28.00	15.60	4.14	168	17.4
<u>Euphilmedes carcharodonta</u>	5.33	3.07	1.84	32	3.3
<u>Ampelisca compressa</u>	2.50	7.50	2.87	15	1.5
<u>Paraphoxus epistomus</u>	3.33	3.07	1.84	33	2.1
<u>Paraphoxus variatus</u>	26.67	2183.07	49.02	160	16.5
OPHIUROIDEA	25.33	33.47	6.07	152	15.7
<u>Amphiodia urtica</u>	3.00	6.80	2.74	18	1.9
<u>Amphioplus hexacanthus</u>	20.50	34.30	6.14	123	12.7

Table 67

Major classes and species of organisms at
Station 1152, 18 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 87

Total number of individuals: 1042

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	54	62
Gastropoda	10	11
Bivalvia		
Crustacea	18	21
Ophiuroidea	<u>3</u>	<u>3</u>
Total	85	97

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	80.00	162.00	13.35	480	46.1
<u>Pholoe glabra</u>	2.17	3.77	2.04	13	1.2
<u>Thalenessa spinosa</u>	2.67	2.67	1.71	16	1.5
<u>Spiophanes bombyx</u>	5.17	2.17	1.54	31	3.0
<u>Magelona nr. pitelkai</u>	4.00	3.20	1.88	24	2.3
<u>Magelona sacculata</u>	3.83	7.37	2.85	23	2.2
<u>Brada villosa</u>	2.50	5.50	2.46	15	1.4
<u>Sternaspis fossor</u>	2.50	9.10	3.17	15	1.4
<u>Mediomastus californiensis</u>	3.83	5.37	2.43	23	2.2

Table 67 (continued)

<u>Taxa</u>	Mean # / .1m ²	S ²	Conf. limits	Total #	% of total sp. Cl.
? <u>Clymenella</u> sp. a	2.33	8.27	3.02	14	1.3
<u>Praxillella affinis pacifica</u>	3.00	1.20	1.15	18	1.7
<u>Amaeana occidentalis</u>	6.83	23.77	5.11	41	3.9
GASTROPODA	21.17	11.37	3.54	127	12.2
<u>Cylichna attonsa</u>	6.83	16.57	4.27	41	3.9
<u>Kurtzia arteaga</u>	2.33	1.07	1.08	14	1.3
<u>Mitrella gouldii</u>	2.17	5.77	2.52	13	1.2
SCAPHOPODA	3.83	3.77	2.04	23	2.2
<u>Cadulus fusiformis</u>	3.17	4.57	2.24	19	1.8
CRUSTACEA	19.50	24.30	5.17	117	11.2
<u>Euphilomedes carcharodonta</u>	6.00	13.20	3.81	36	3.5
<u>Paraphoxus bicuspidatus</u>	4.83	4.57	2.24	29	2.8
<u>Paraphoxus variatus</u>	2.50	3.50	1.96	15	1.4
OPHIUROIDEA	23.00	34.40	6.15	138	13.2
<u>Amphiodia urtica</u>	8.83	14.57	4.00	53	5.1
<u>Amphioplus hexacanthus</u>	12.33	72.67	8.94	74	7.1

Table 68

Major classes and species of organisms at
Station 1176, 18 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 93

Total number of individuals: 1157

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	57	61
Gastropoda	10	11
Bivalvia		
Crustacea	19	20
Ophiuroidea	<u>4</u>	<u>4</u>
Total	90	96

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	103.83	312.57	18.5	623	53.8
<u>Nephtys ferruginea</u>	2.00	4.40	2.20	12	1.0
<u>Glycera capitata</u>	4.17	1.37	1.23	25	2.2
<u>Lumbrineris cruzensis</u>	4.67	10.27	3.36	28	2.4
<u>Lumbrineris luti</u>	8.17	14.17	3.95	49	4.2
<u>Ninoe sp. a</u>	4.33	4.27	2.17	26	2.2
<u>Laonice cirrata</u>	2.33	3.87	2.06	14	1.2
<u>Paraprionospio pinnata</u>	11.17	20.97	4.80	67	5.8
<u>Prionospio malmgreni</u>	2.50	5.90	2.55	15	1.3

Table 68 (continued)

<u>Taxa</u>	Mean $\frac{\#}{.1m^2}$	S ²	Conf. limits	Total #	% of total sp. Cl.
<u>Sternaspis fossor</u>	5.00	10.00	3.32	30	2.6
<u>Maldane cristata</u>	11.67	31.47	5.89	70	6.1
<u>Myriochele heeri</u>	8.83	17.37	4.37	53	4.6
<u>Terebellides stroemi</u>	8.33	20.27	4.72	50	4.3
GASTROPODA	20.33	45.47	7.07	122	10.5
<u>Cylichna attonsa</u>	5.00	4.00	2.10	30	2.6
<u>Alvinia acutellirata</u>	3.33	11.87	3.61	20	1.7
<u>Kurtzia arteaga</u>	4.17	4.97	2.34	25	2.2
<u>Mitrella gouldii</u>	3.83	7.77	2.92	23	2.0
SCAPHOPODA	5.00	6.80	2.74	30	2.6
<u>Cadulus fusiformis</u>	2.50	2.70	1.72	15	1.3
CRUSTACEA	17.00	24.80	5.22	102	8.8
<u>Paraphoxus bicuspidatus</u>	3.83	7.77	2.92	23	2.0
OPHIUROIDEA	33.67	79.07	9.33	202	17.5
<u>Amphiodia urtica</u>	25.00	39.20	6.57	150	13.0

Table 69

Major classes and species of organisms at
Station 1155, 17 Nov 1972

Summary: Bivalvia not included

Number of replicates: 6

Total number of identified species: 92

Total number of individuals: 1691

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	57	62
Gastropoda	10	11
Bivalvia		
Crustacea	18	20
Ophiuroidea	<u>3</u>	<u>3</u>
Total	88	96

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	96.83	157.77	13.18	581	34.4
<u>Nephtys ferruginea</u>	2.67	3.47	1.95	16	.9
<u>Glycera capitata</u>	4.83	.97	1.03	29	1.7
<u>Onuphis parva</u>	3.33	2.27	1.58	20	1.2
<u>Lumbrineris luti</u>	8.00	6.80	2.74	48	2.8
<u>Ninoe</u> sp. a	3.83	2.57	1.68	23	1.4
<u>Paraonis ivanovi</u>	4.33	1.87	1.43	26	1.5
<u>Paraprionospio pinnata</u>	17.50	56.70	7.90	105	6.2
<u>Sternaspis fossor</u>	2.17	4.57	2.24	13	.8

Table 69 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	<u>#</u>	% of total <u>sp. Cl.</u>
<u>Maldane cristata</u>	8.00	10.00	3.32	48	2.8
<u>Terebellides stroemi</u>	4.50	11.90	3.62	27	1.6
APLACOPHORA	2.00	2.00	1.48	12	.7
GASTROPODA	22.67	21.07	4.82	136	8.0
<u>Cylichna attonsa</u>	5.50	5.90	2.55	33	2.0
<u>Kurtzia arteaga</u>	5.00	2.80	1.76	30	1.8
<u>Mitrella gouldii</u>	5.83	18.57	4.52	35	2.1
SCAPHOPODA	5.83	14.57	4.00	35	2.1
<u>Cadulus fusiformis</u>	3.83	4.57	2.24	23	1.4
CRUSTACEA	22.67	31.87	5.92	136	8.0
<u>Paraphoxus bicuspidatus</u>	5.33	2.67	1.71	32	1.9
<u>Paraphoxus similis</u>	2.83	1.77	1.39	17	1.0
<u>Pinnixa occidentalis</u>	2.33	3.07	1.84	14	.8
OPHIUROIDEA	98.33	515.07	23.81	590	34.9
<u>Amphiodia urtica</u>	84.67	267.87	17.17	508	30.0
HOLOTHURIODEA	3.67	9.07	3.16	22	1.3

Table 70

Major classes and species of organisms at
Station 1105, 28 Feb 1973

Summary: Bivalvia not included

Number of replicates: 10

Total number of identified species: 49

Total number of individuals: 694

<u>Class</u>	<u>Number of species</u>	<u>Percent of total identified species</u>
Polychaeta	27	55
Gastropoda	4	8
Bivalvia		
Crustacea	16	33
Ophiuroidea	<u>1</u>	<u>2</u>
Total	48	98

Numbers of individuals in major classes and species:

<u>Taxa</u>	<u>Mean # / .1m²</u>	<u>S²</u>	<u>Conf. limits</u>	<u>Total #</u>	<u>% of total sp. Cl.</u>
POLYCHAETA	26.30	32.68	4.09	263	37.9
<u>Nothria elegans</u>	7.90	7.21	1.92	79	11.4
<u>Lumbrineris luti</u>	2.30	3.12	1.26	23	3.3
<u>Magelona sacculata</u>	2.50	3.17	1.27	25	3.6
<u>Chaetozone setosa</u>	2.90	8.10	2.03	29	4.2
GASTROPODA	8.70	12.90	2.57	87	12.5
CRUSTACEA	31.70	102.68	7.24	317	45.7
<u>Euphilomedes carcharodonta</u>	17.60	49.82	5.04	176	25.4
<u>Mesolamprops</u> sp. a	2.40	3.60	1.36	24	3.5

Table 70 (continued)

<u>Taxa</u>	Mean # <u>/ .1m²</u>	<u>S²</u>	Conf. <u>limits</u>	Total <u>#</u>	% of total <u>sp. Cl.</u>
<u>Paraphoxus daboius</u>	4.10	4.10	1.45	41	5.9
<u>Paraphoxus epistomus</u>	3.80	9.96	2.25	38	5.5

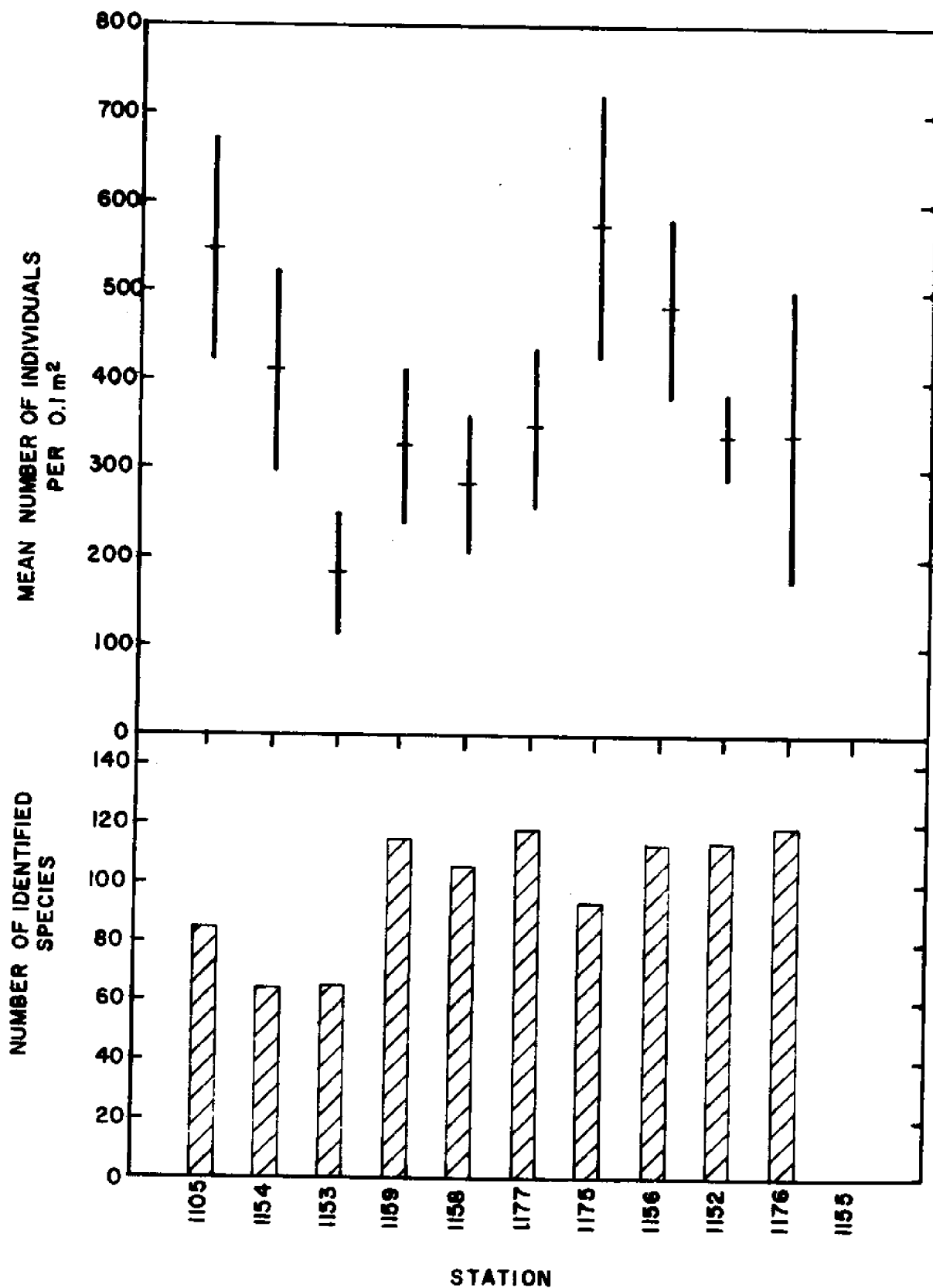


Figure 7. Total number of identified species of total fauna and the mean number of individuals of total fauna per 0.1 m² with 95% confidence limits, August - October 1971

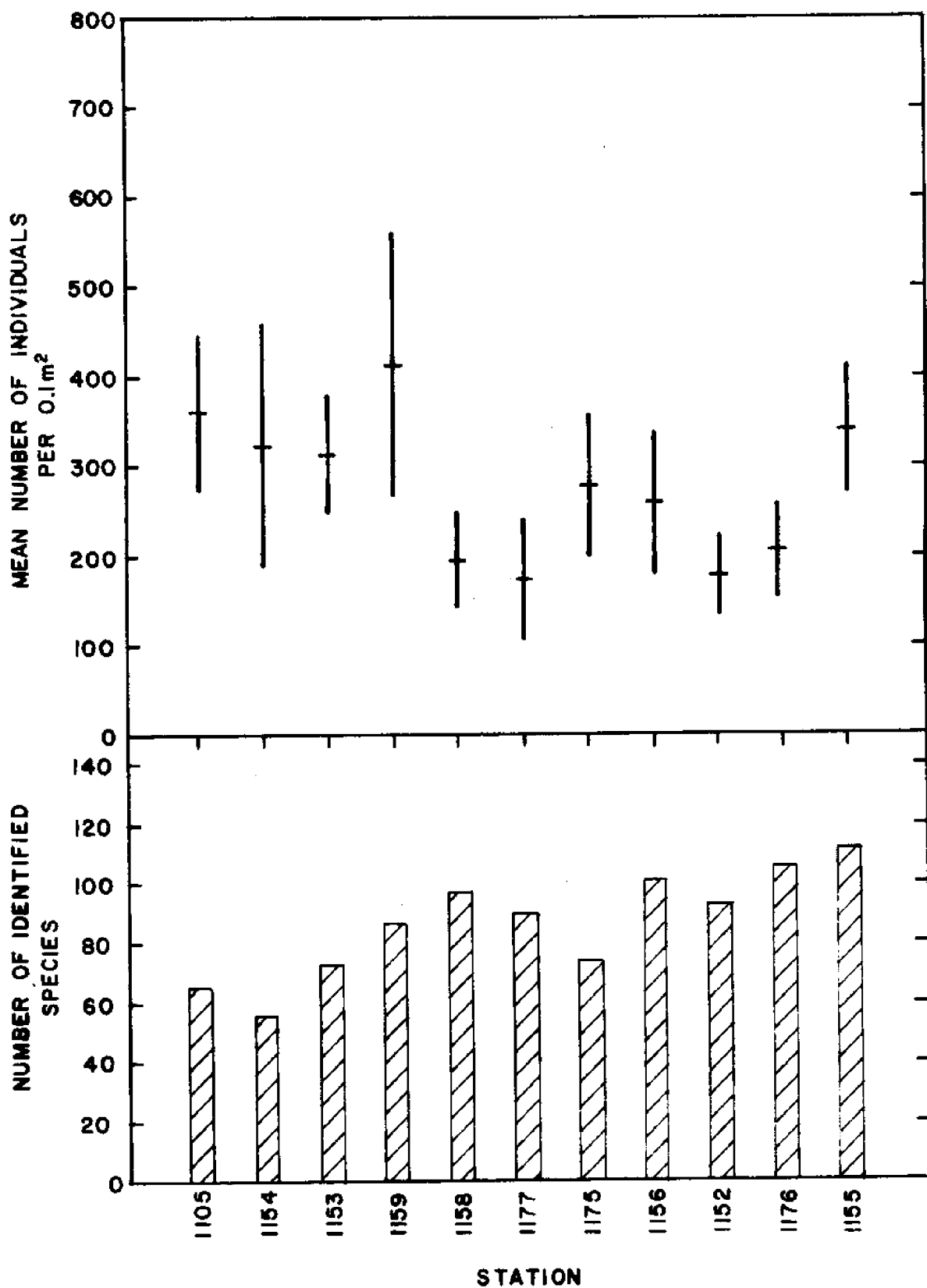


Figure 8. Total number of identified species of total fauna and the mean number of individuals of total fauna per 0.1 m² with 95% confidence limits, November 1971

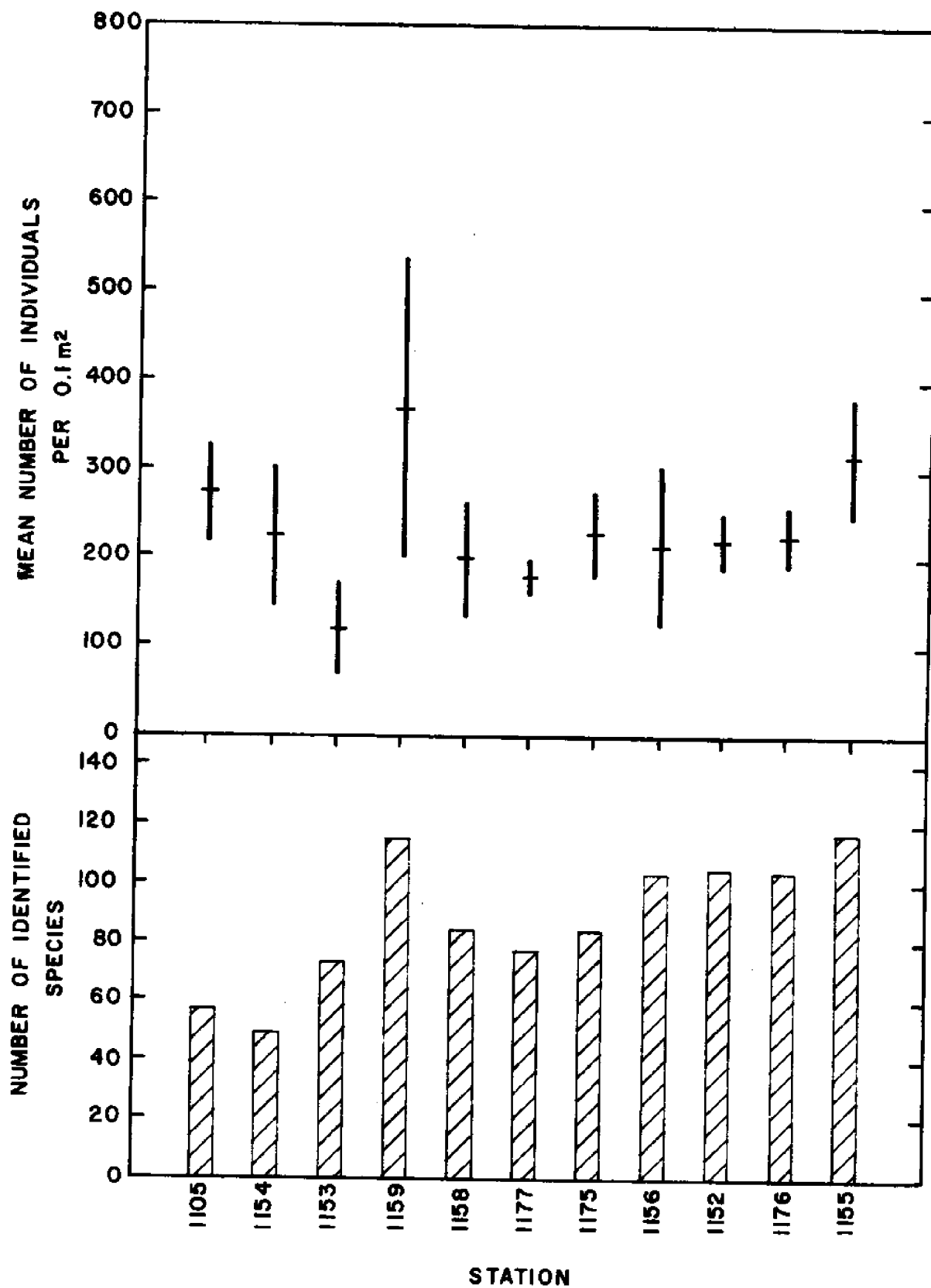


Figure 9. Total number of identified species of total fauna and the mean number of individuals of total fauna per 0.1 m² with 95% confidence limits, February 1972

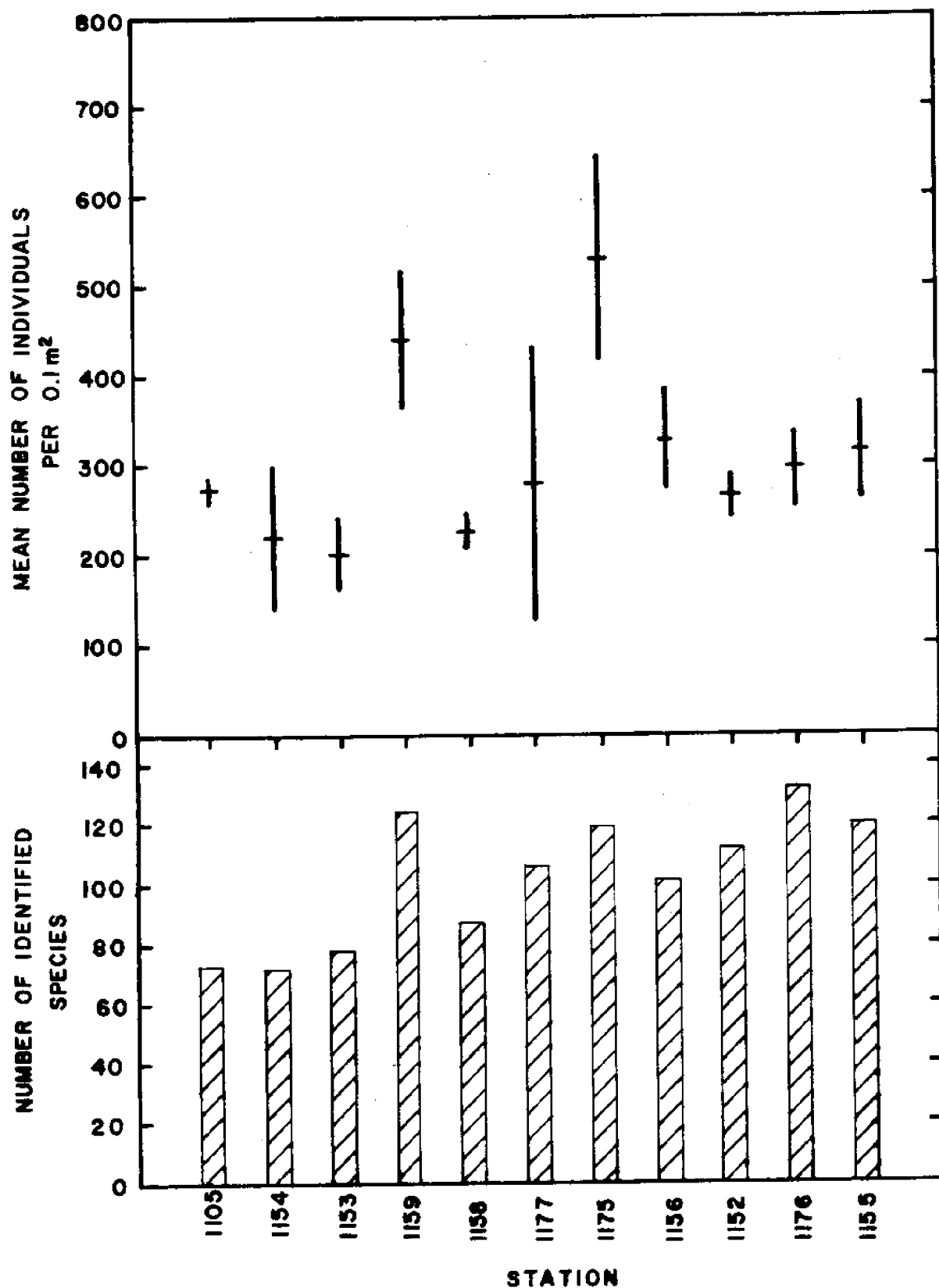


Figure 10. Total number of identified species of total fauna and the mean number of individuals of total fauna per 0.1 m² with 95% confidence limits, May 1972

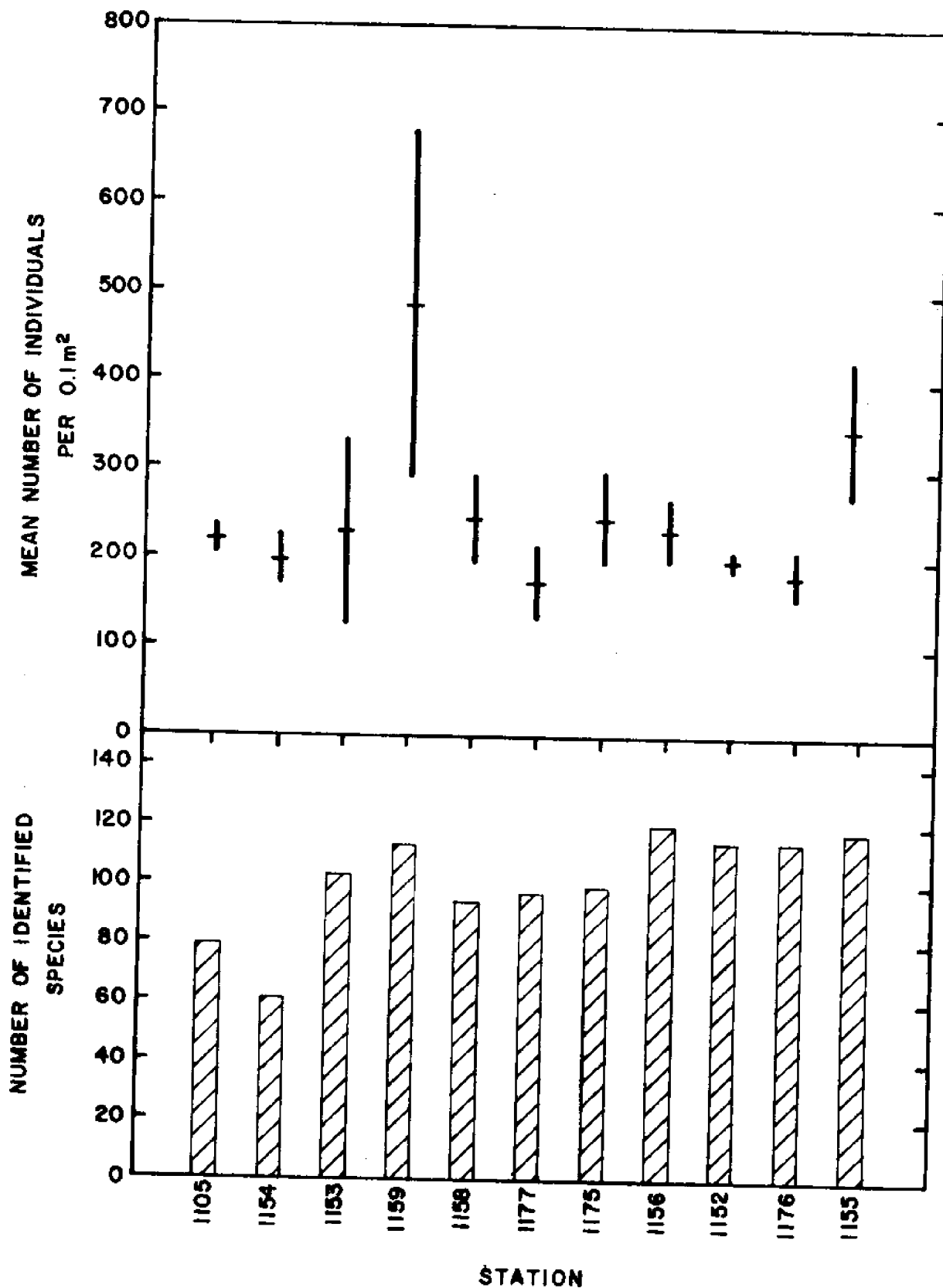


Figure 11. Total number of identified species of total fauna and the mean number of individuals of total fauna per 0.1 m² with 95% confidence limits, August 1972

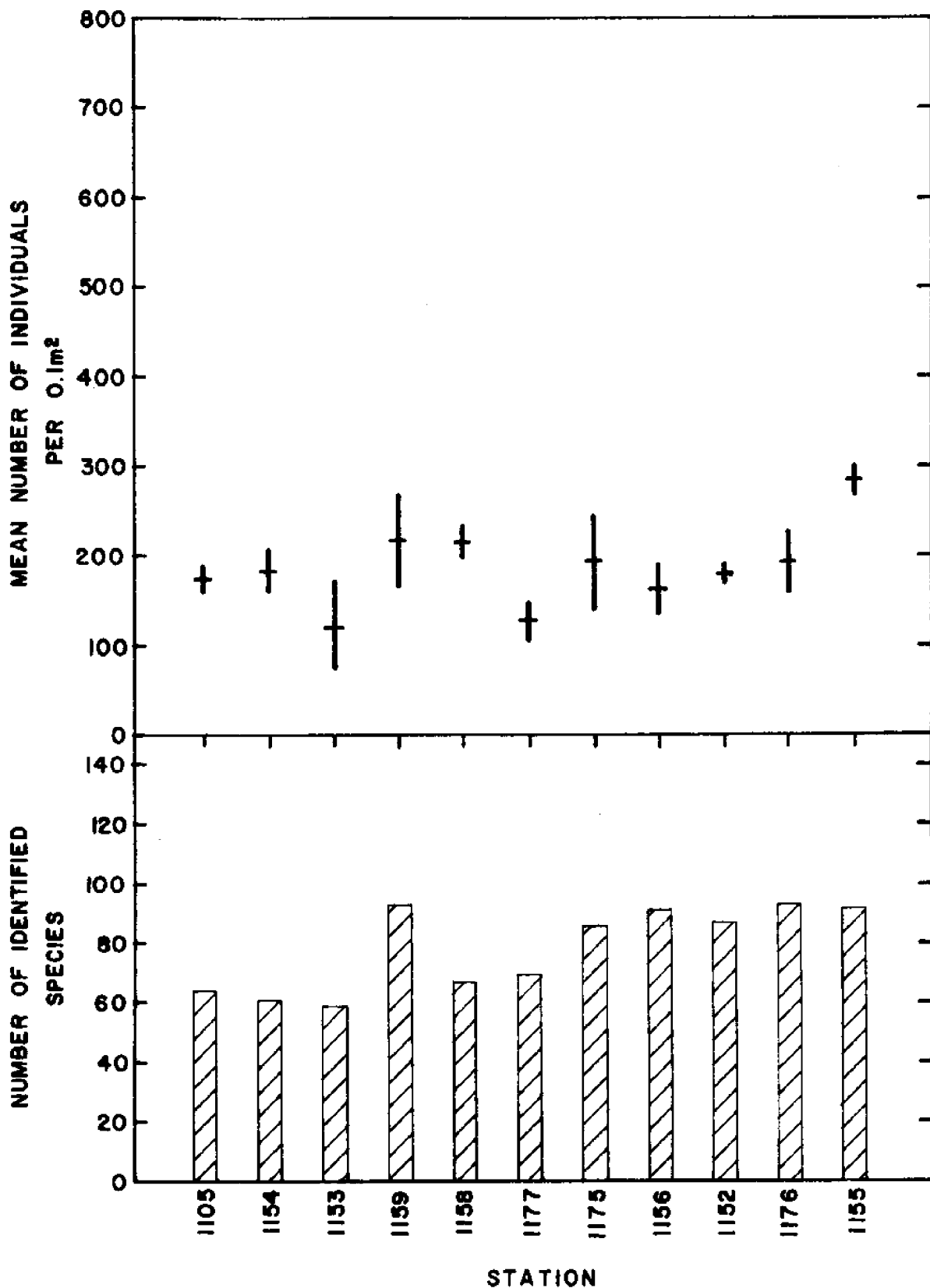


Figure 12. Total number of identified species of total fauna and the mean number of individuals of total fauna per 0.1 m² with 95% confidence limits, November 1972

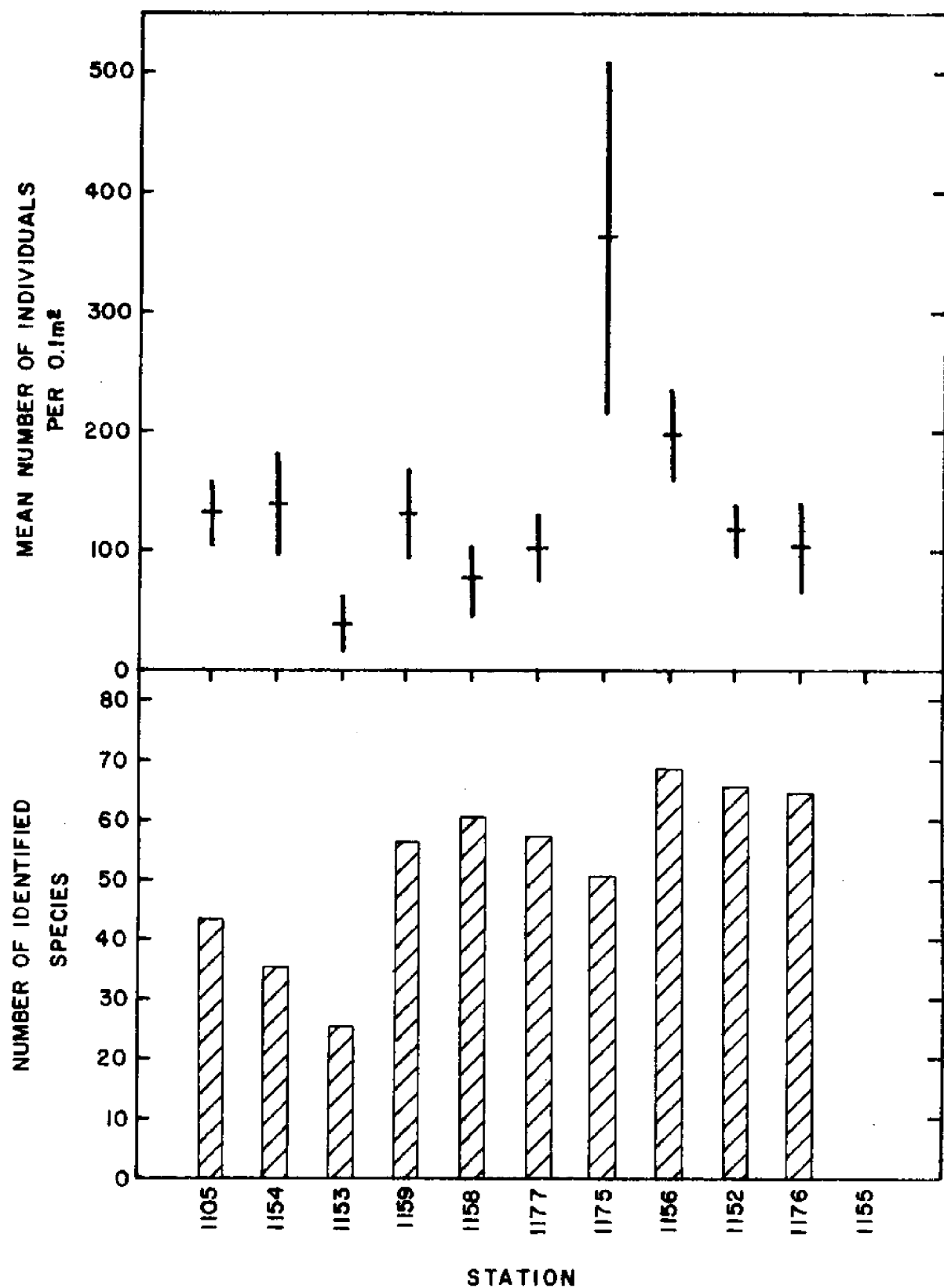


Figure 13. Total number of identified species of Polychaeta and the mean number of individuals of Polychaeta per 0.1 m² with 95% confidence limits, August - October 1971

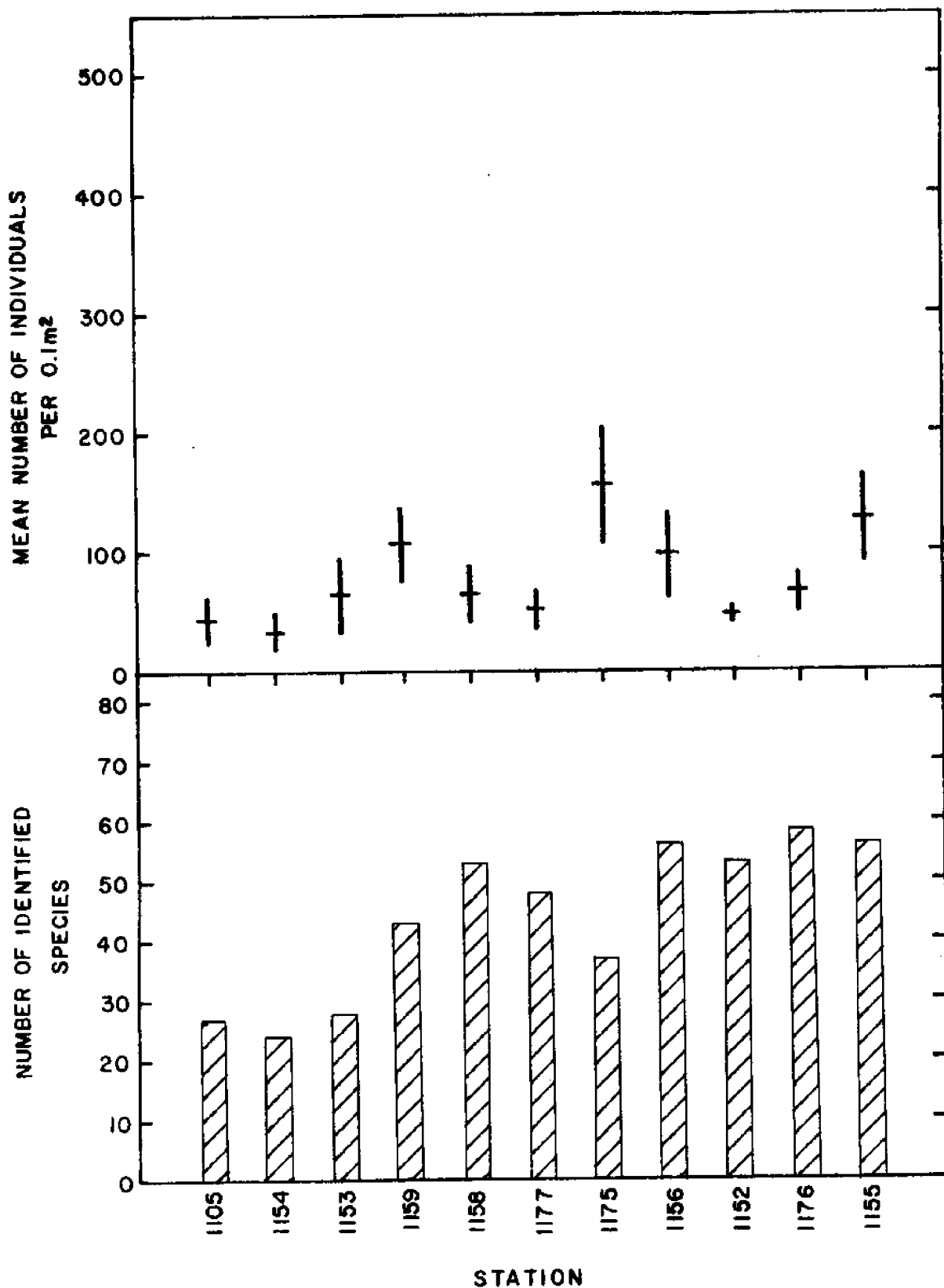


Figure 14. Total number of identified species of Polychaeta and the mean number of individuals of Polychaeta per 0.1 m² with 95% confidence limits, November 1971

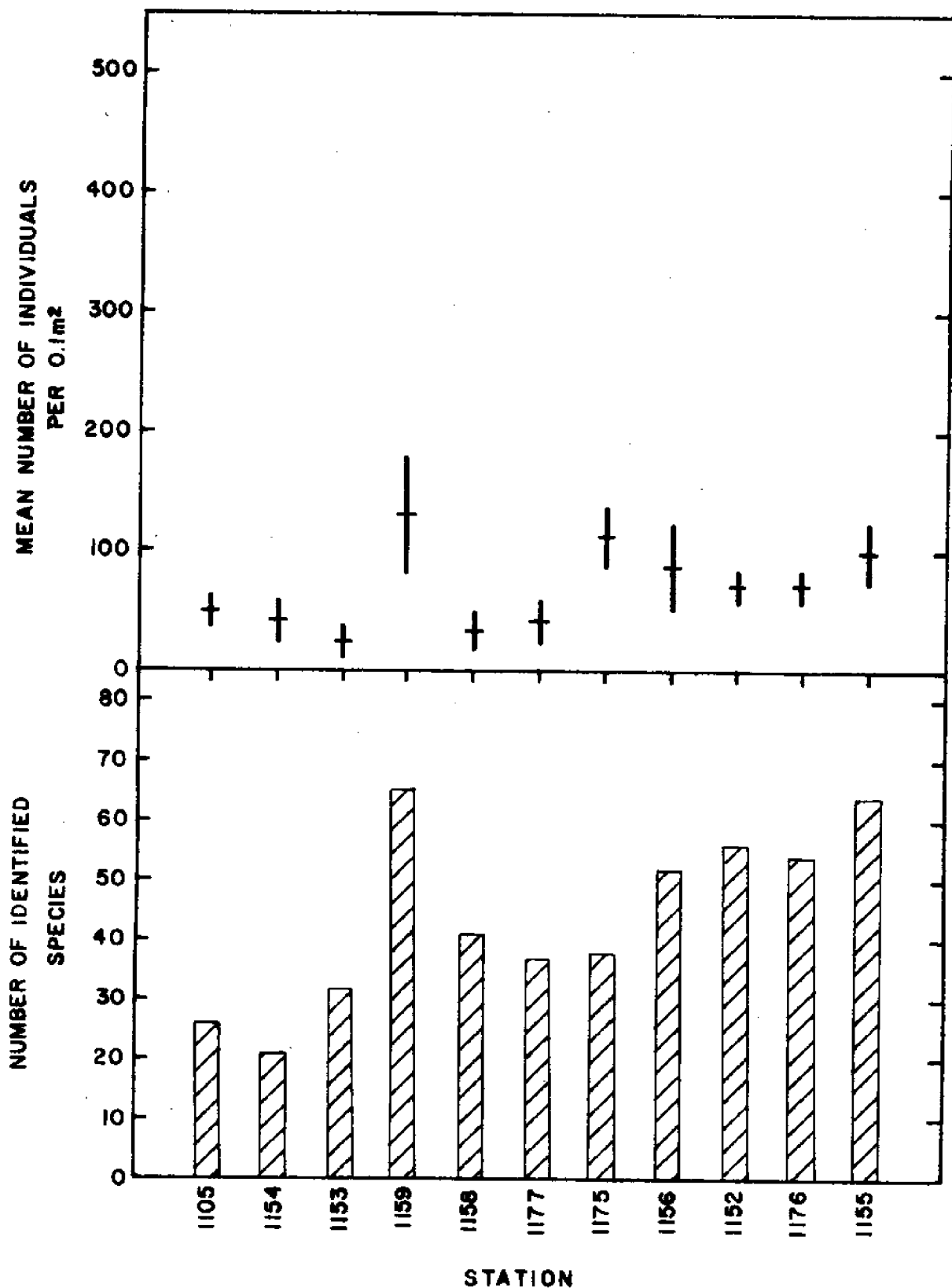


Figure 15. Total number of identified species of Polychaeta and the mean number of individuals of Polychaeta per 0.1 m² with 95% confidence limits, February 1972

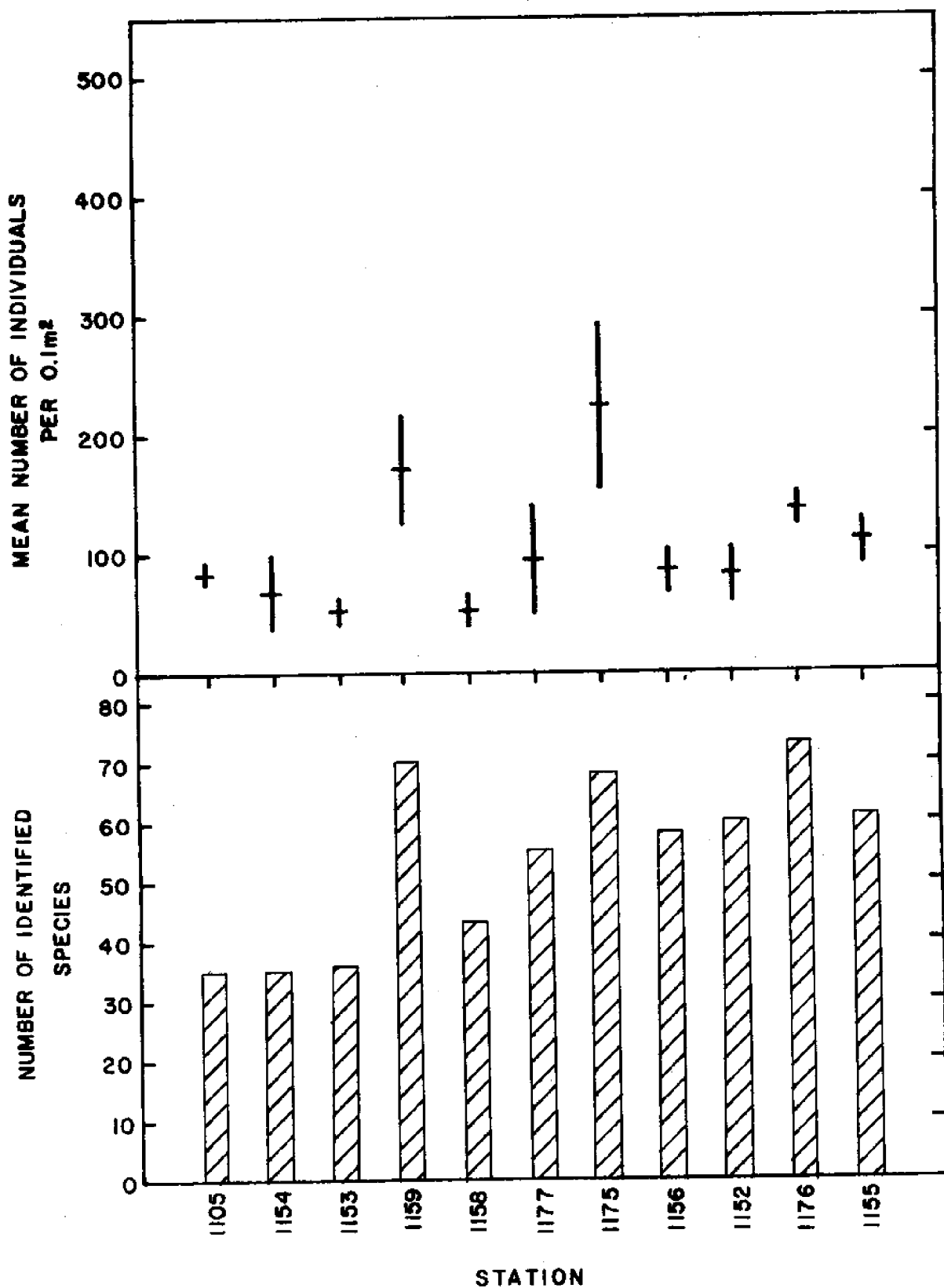


Figure 16. Total number of identified species of Polychaeta and the mean number of individuals of Polychaeta per 0.1 m² with 95% confidence limits, May 1972

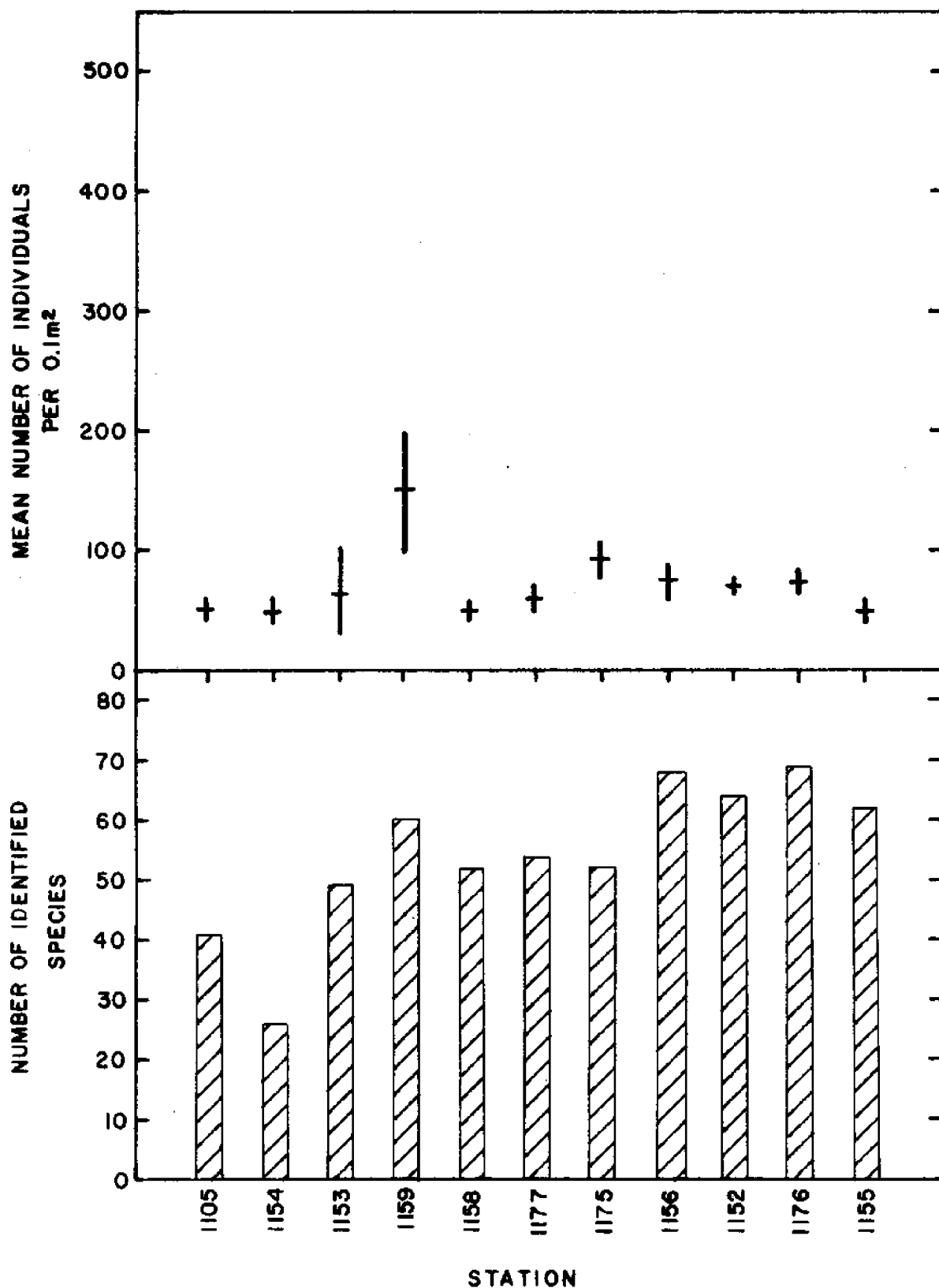


Figure 17. Total number of identified species of Polychaeta and the mean number of individuals of Polychaeta per 0.1 m² with 95% confidence limits, August 1972

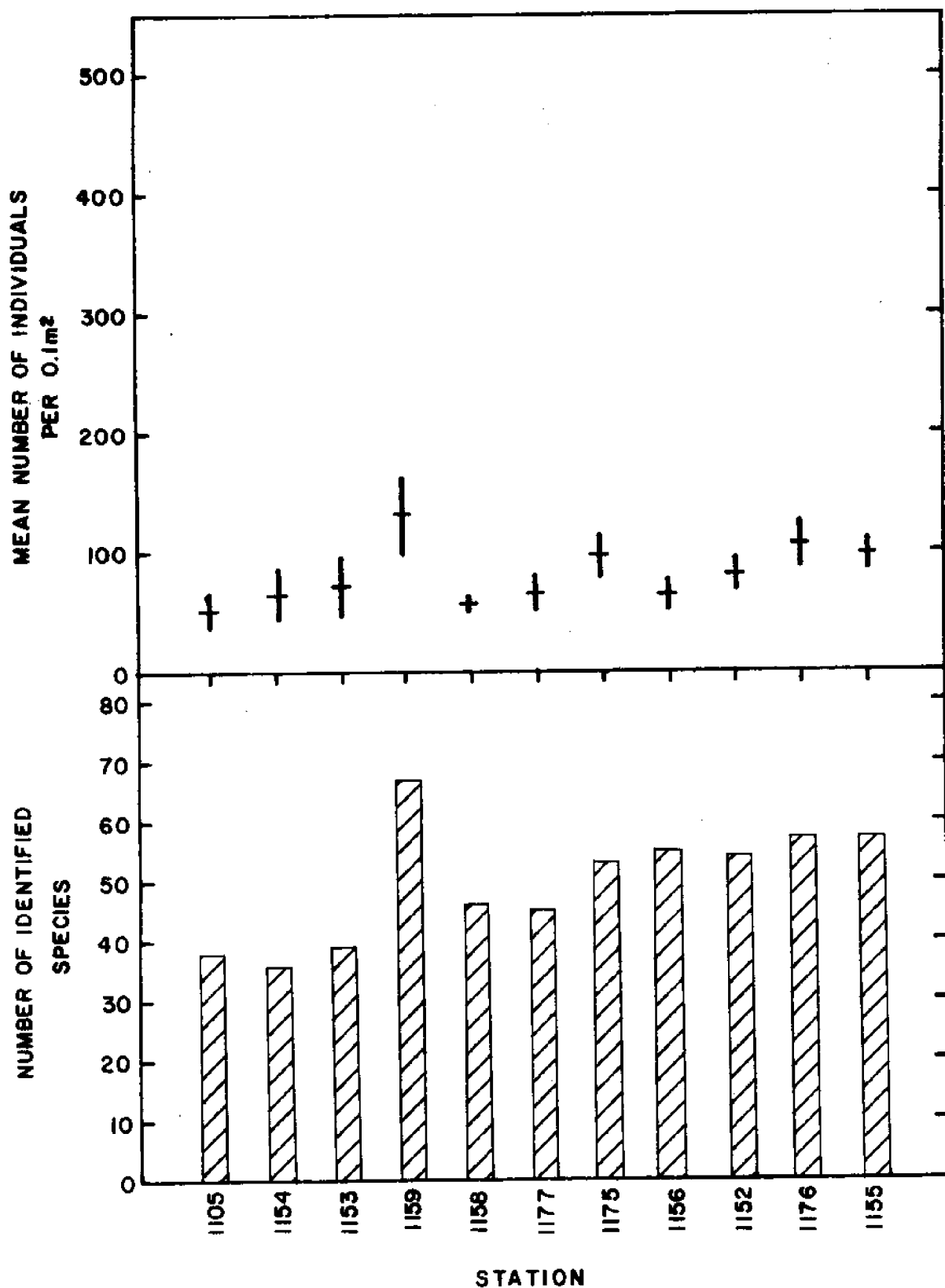


Figure 18. Total number of identified species of Polychaeta and the mean number of individuals of Polychaeta per 0.1 m² with 95% confidence limits, November 1972

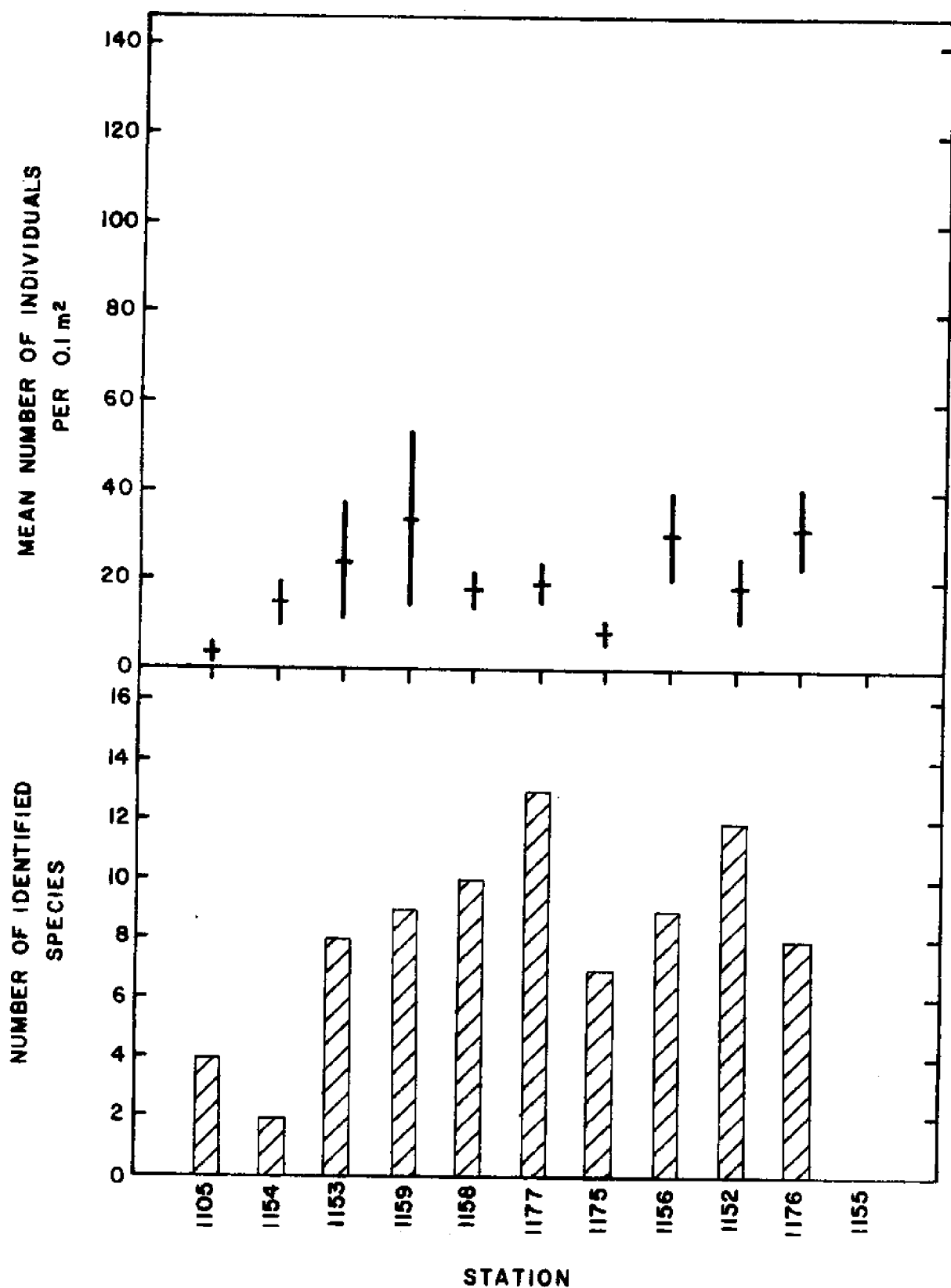


Figure 19. Total number of identified species of Gastropoda and the mean number of individuals of Gastropoda per 0.1 m² with 95% confidence limits, August - October 1971

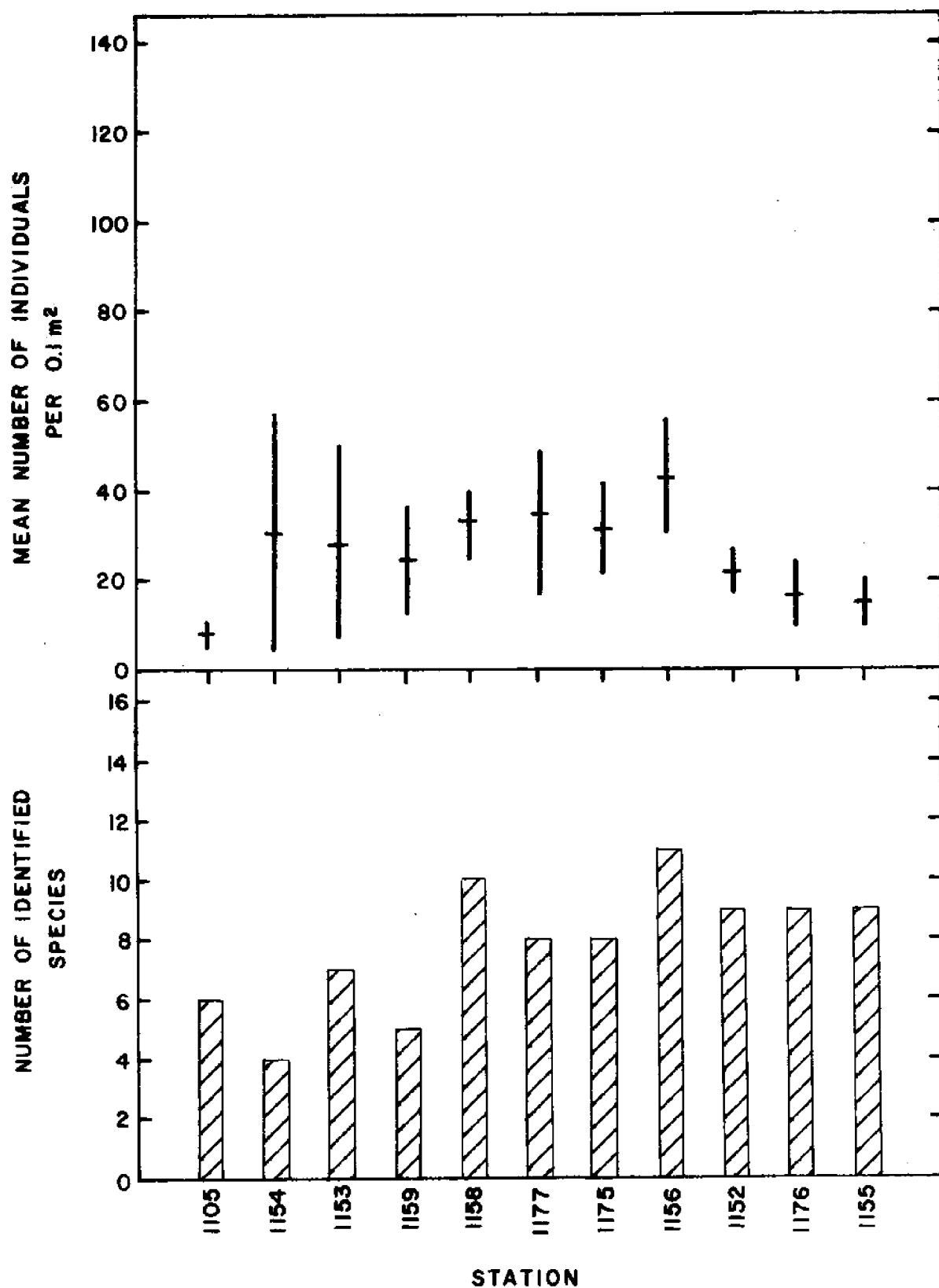


Figure 20. Total number of identified species of Gastropoda and the mean number of individuals of Gastropoda per 0.1 m² with 95% confidence limits, November 1971

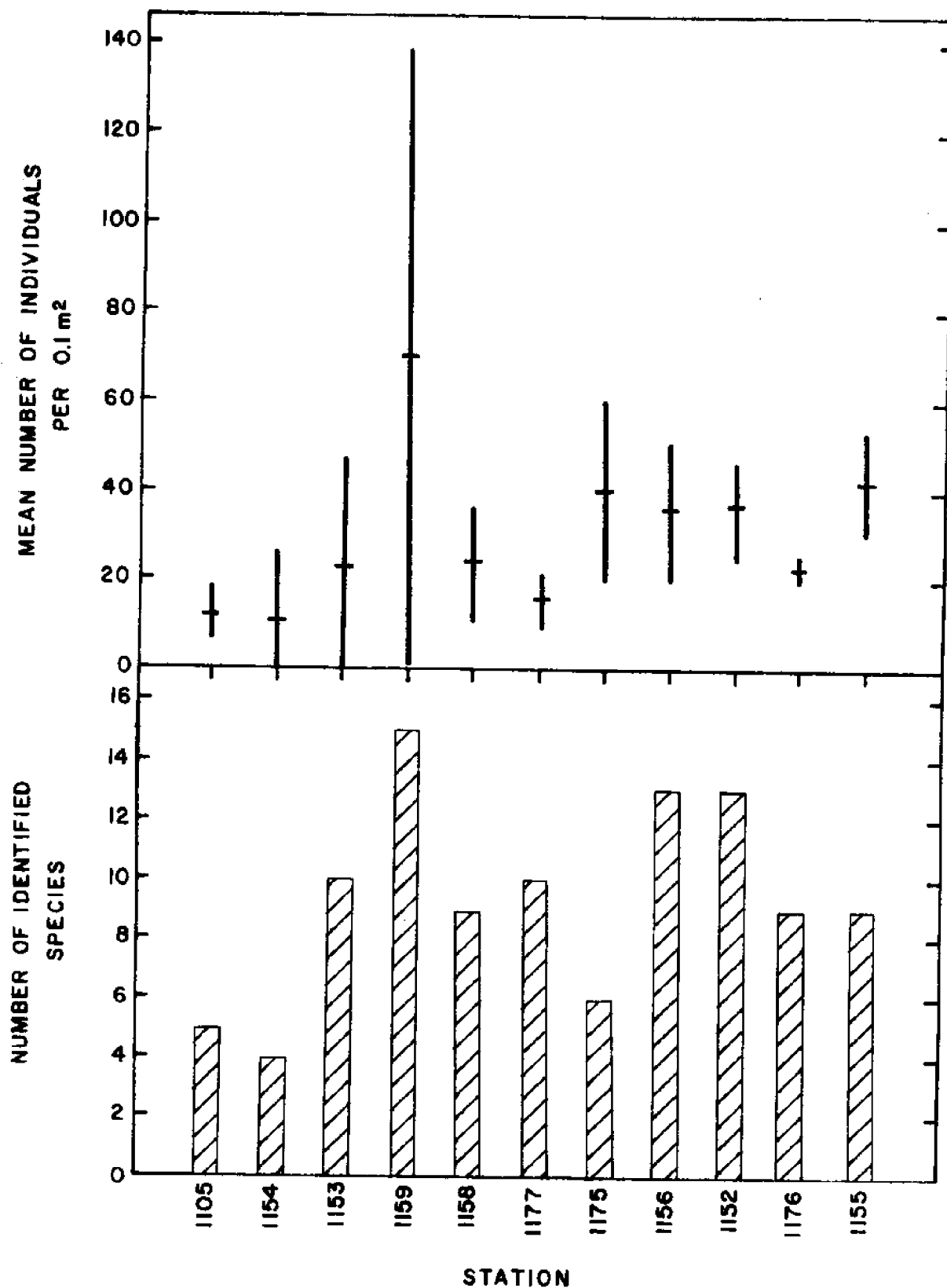


Figure 21. Total number of identified species of Gastropoda and the mean number of individuals of Gastropoda per 0.1 m² with 95% confidence limits, February 1972

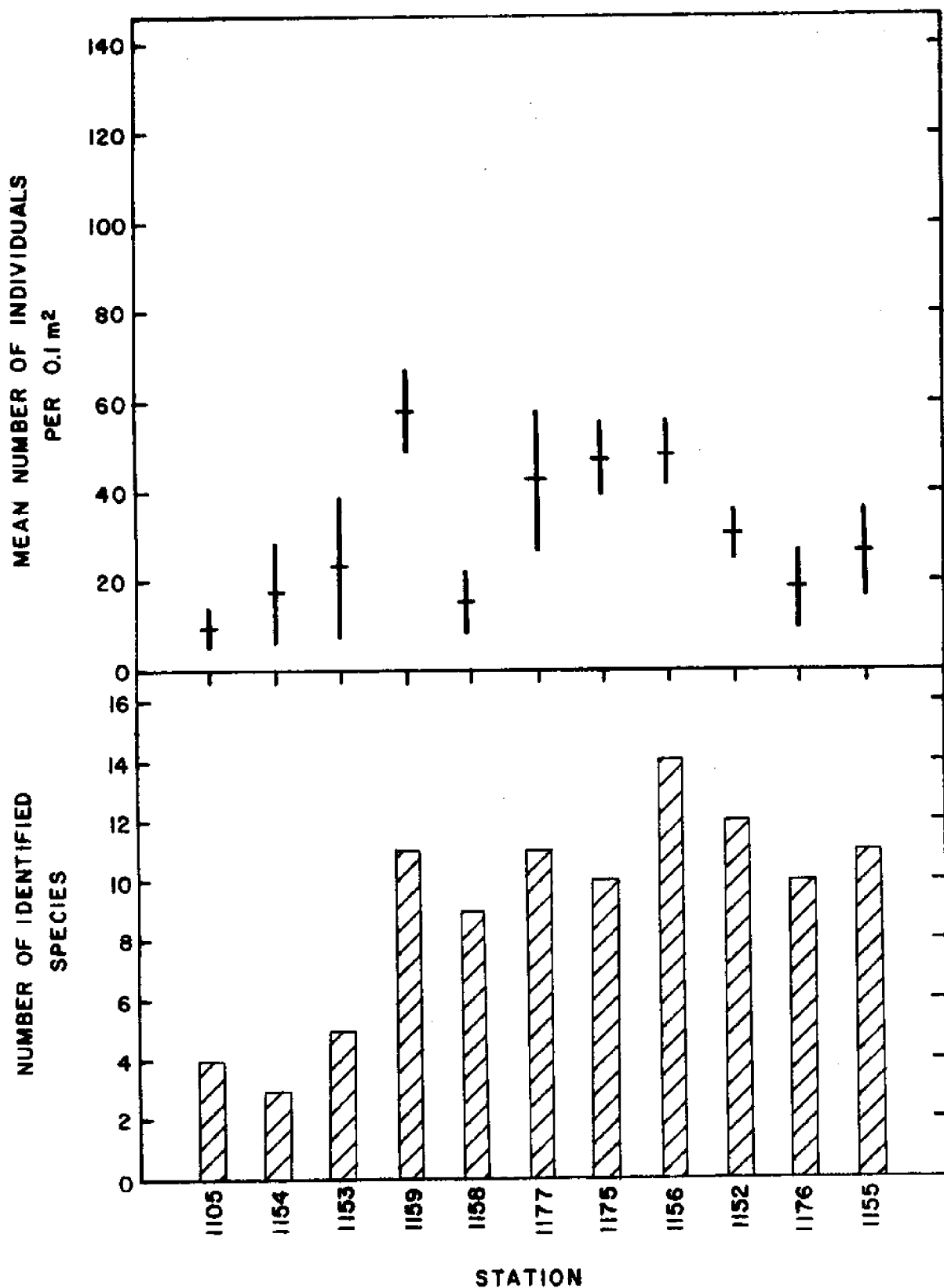


Figure 22. Total number of identified species of Gastropoda and the mean number of individuals of Gastropoda per 0.1 m² with 95% confidence limits, May 1972

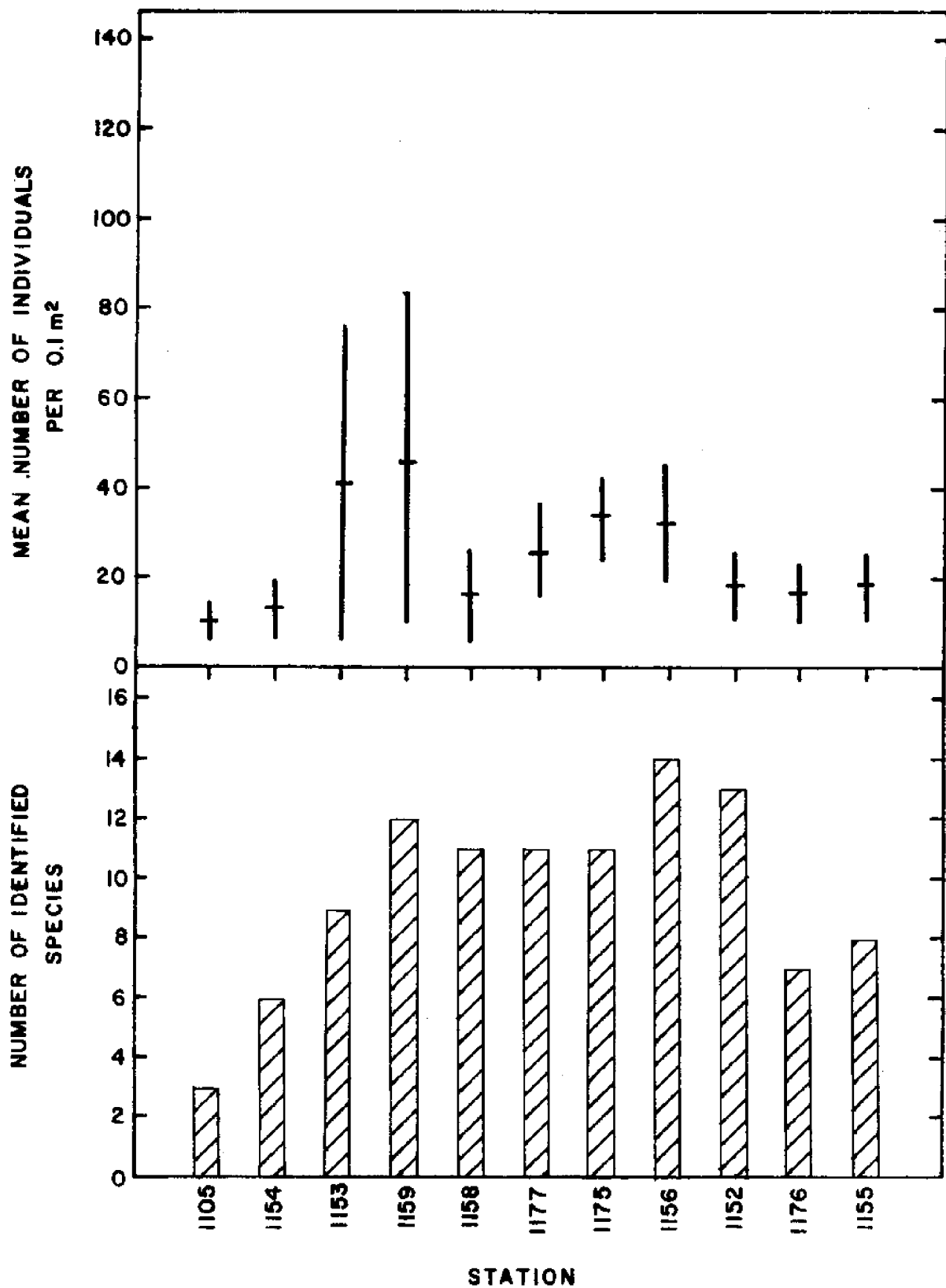


Figure 23. Total number of identified species of Gastropoda and the mean number of individuals of Gastropoda per 0.1 m² with 95% confidence limits, August 1972

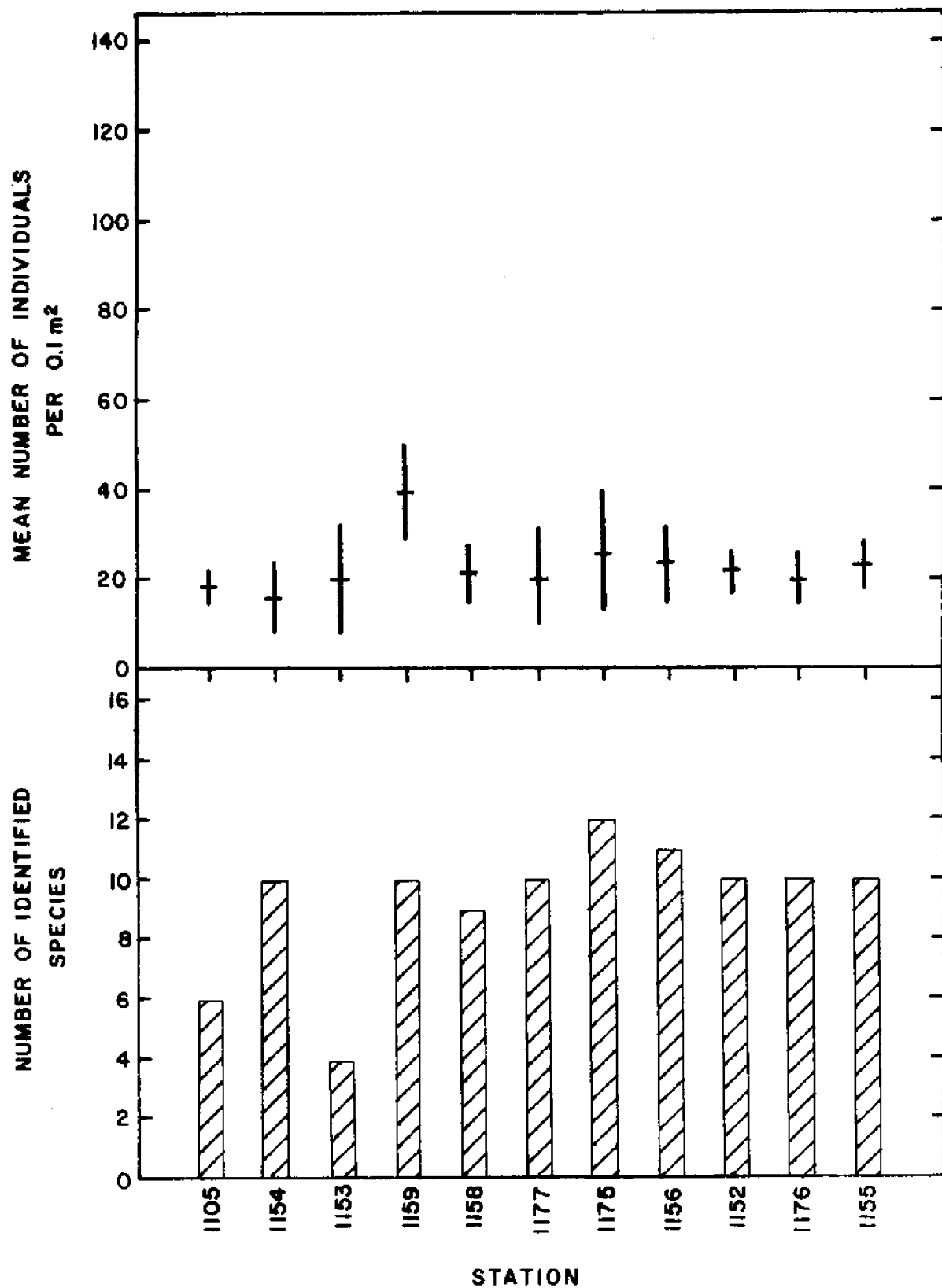


Figure 24. Total number of identified species of Gastropoda and the mean number of individuals of Gastropoda per 0.1 m² with 95% confidence limits, November 1972

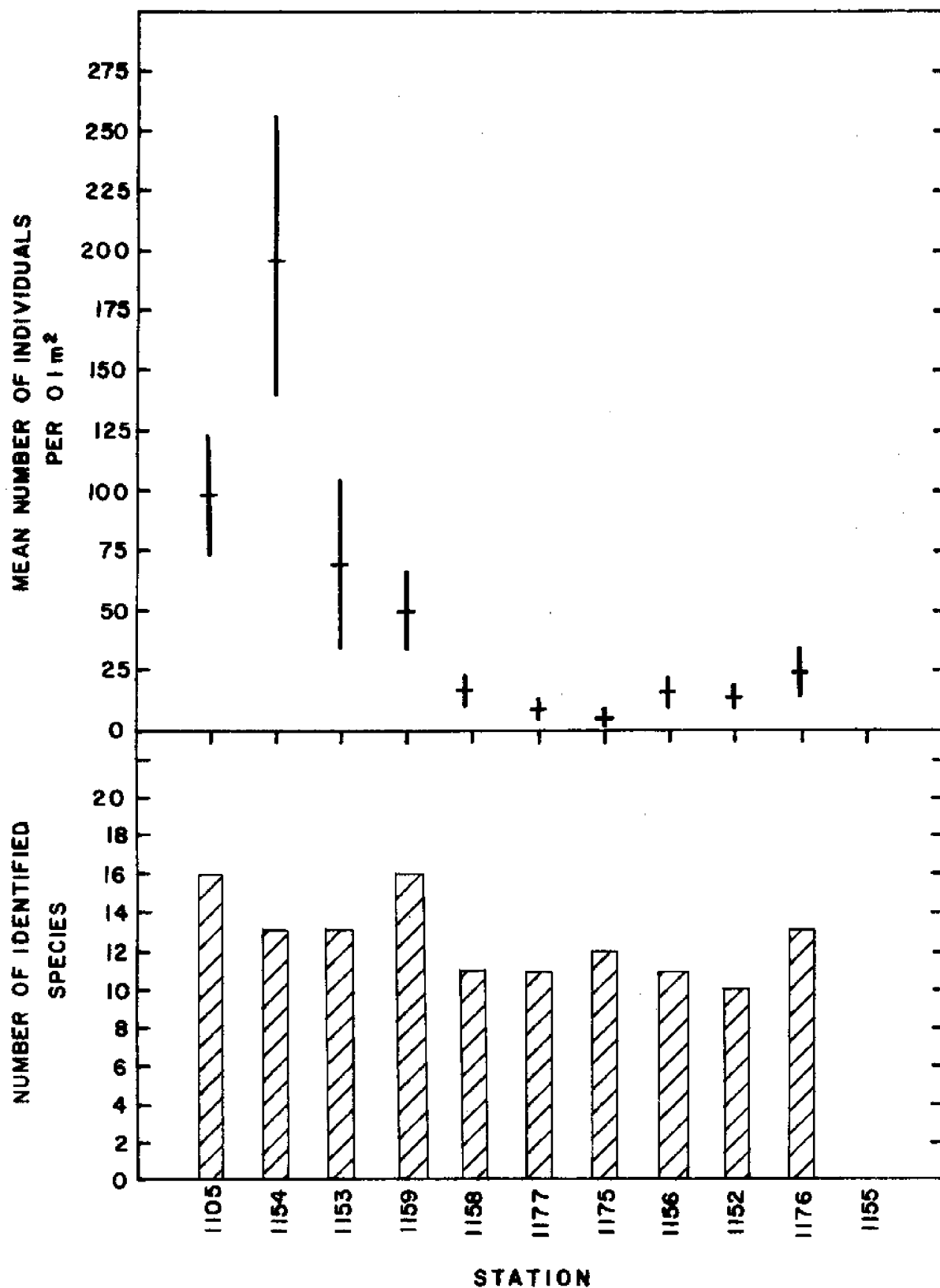


Figure 25. Total number of identified species of *Bivalvia* and the mean number of individuals of *Bivalvia* per 0.1 m² with 95% confidence limits, August - October 1971

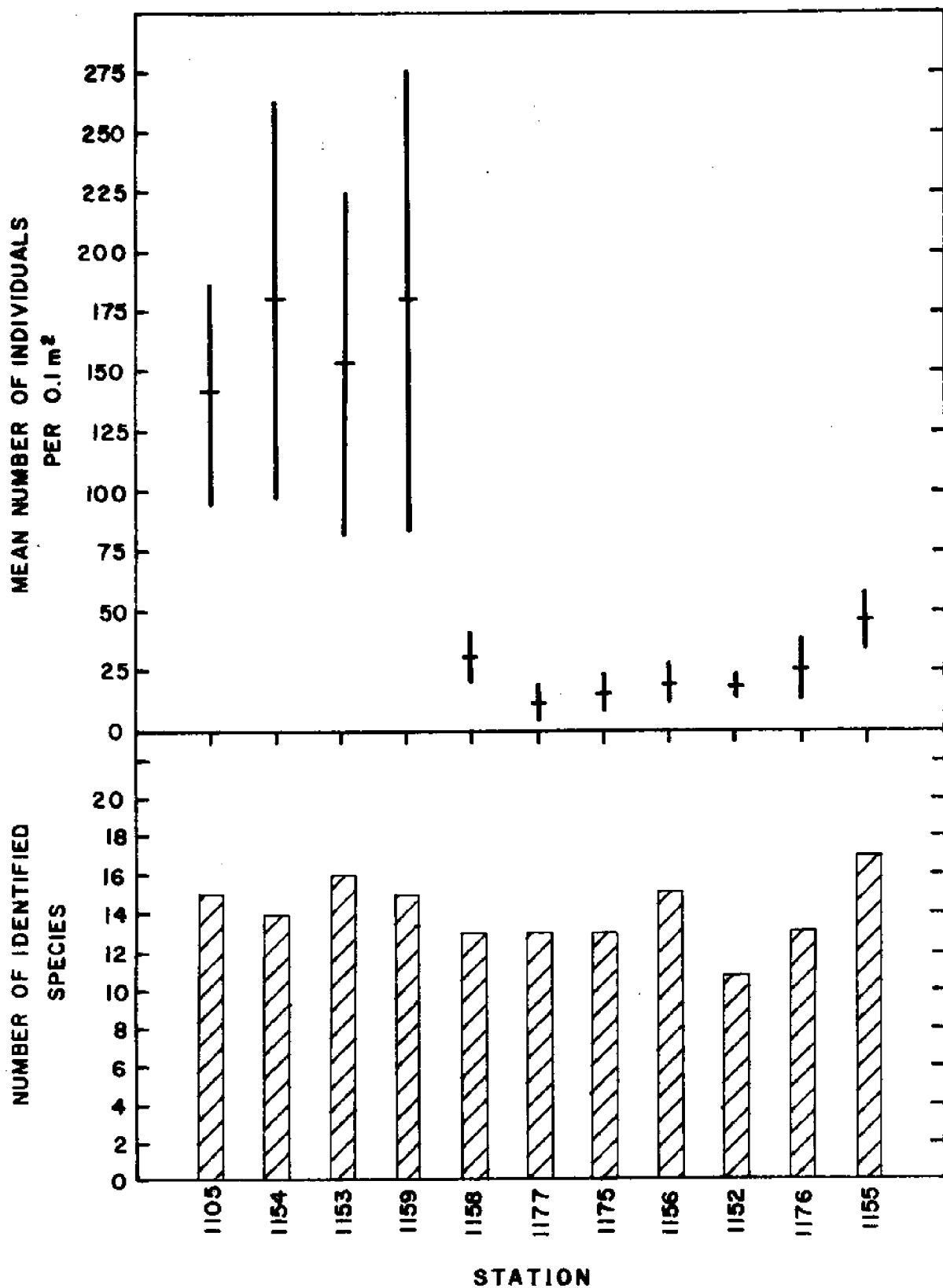


Figure 26. Total number of identified species of Bivalvia and the mean number of individuals of Bivalvia per 0.1 m² with 95% confidence limits, November 1971

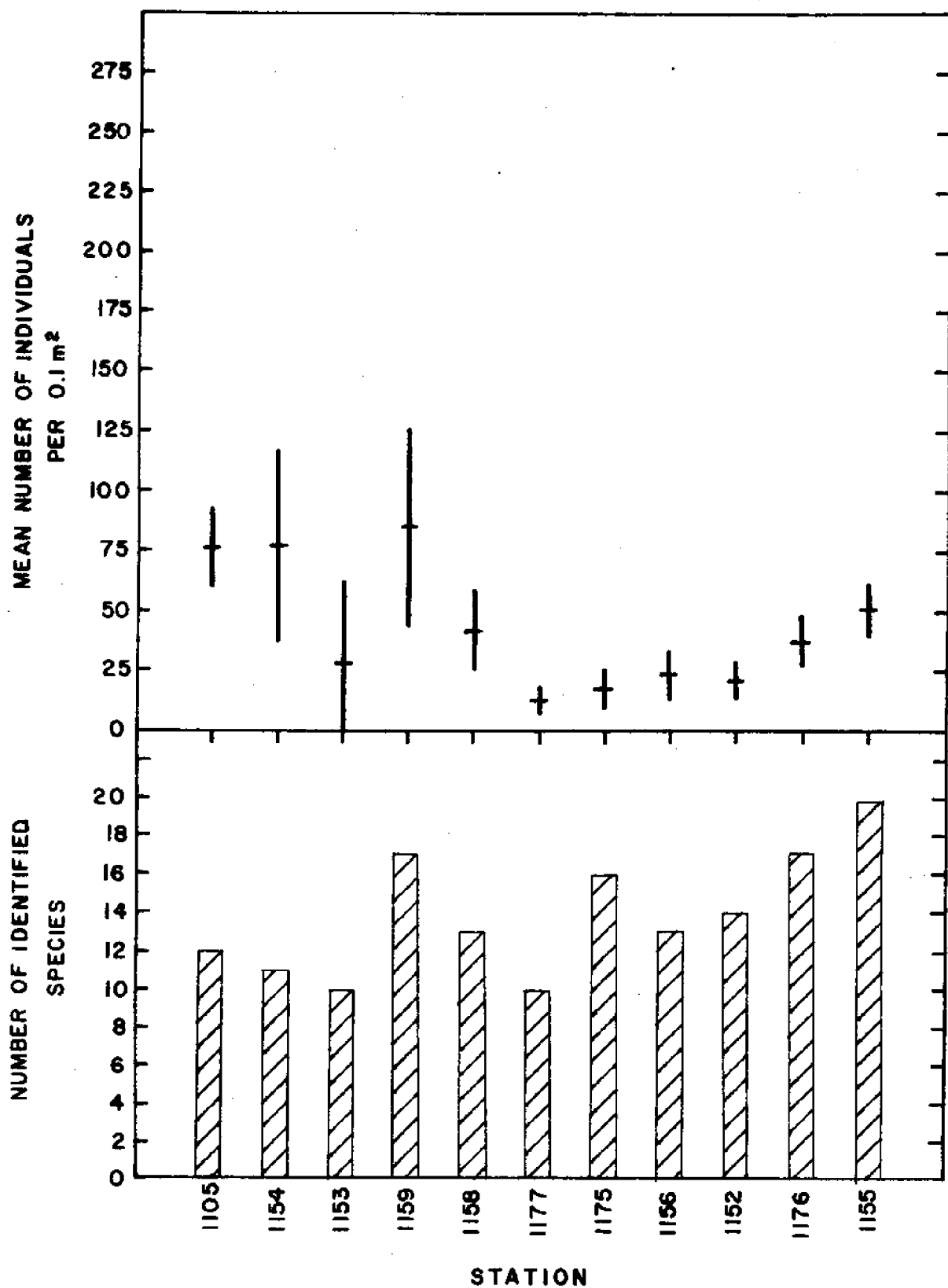


Figure 27. Total number of identified species of Bivalvia and the mean number of individuals of Bivalvia per 0.1 m² with 95% confidence limits, February 1972

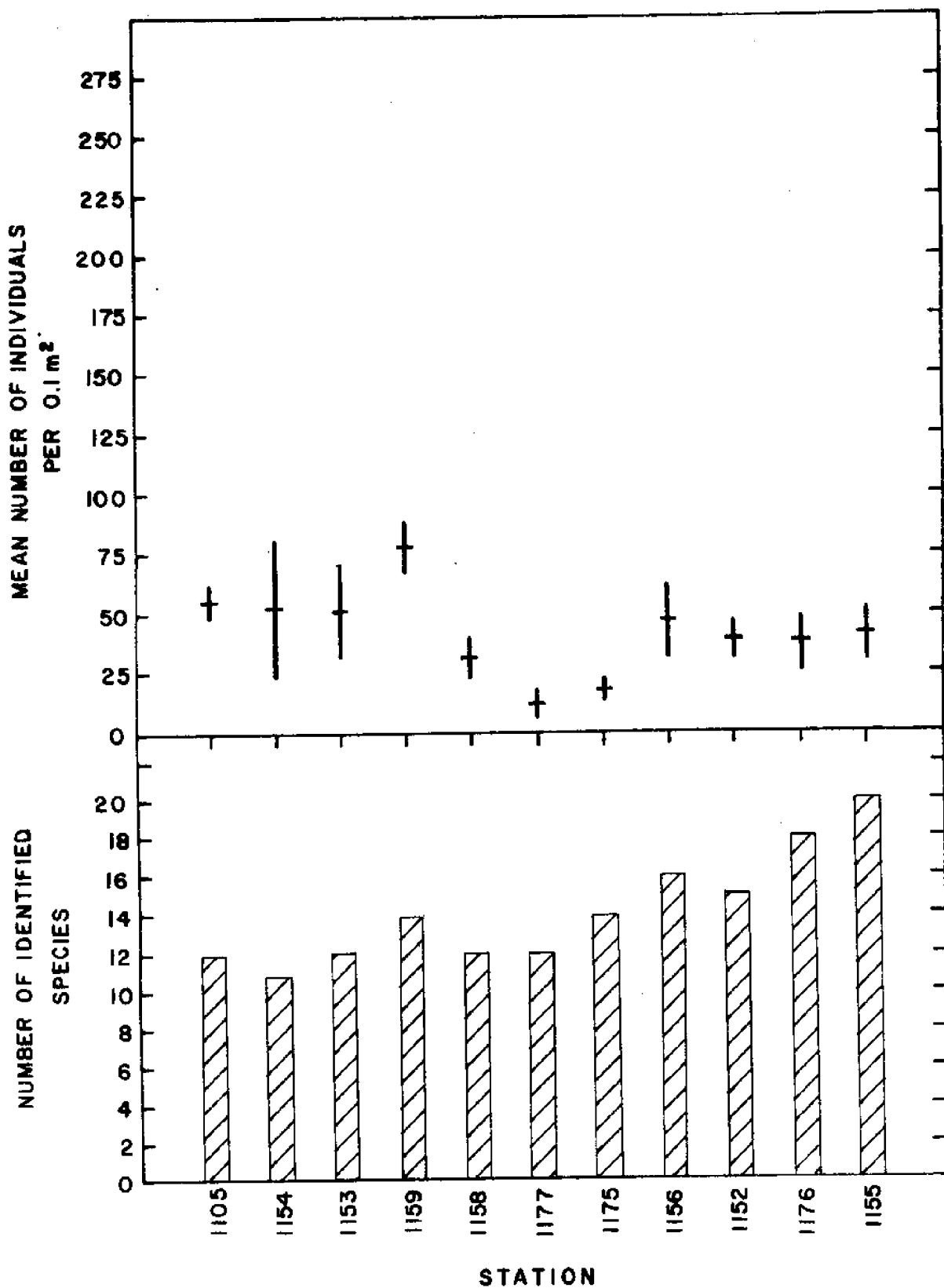


Figure 28. Total number of identified species of Bivalvia and the mean number of individuals of Bivalvia per 0.1 m² with 95% confidence limits, May 1972

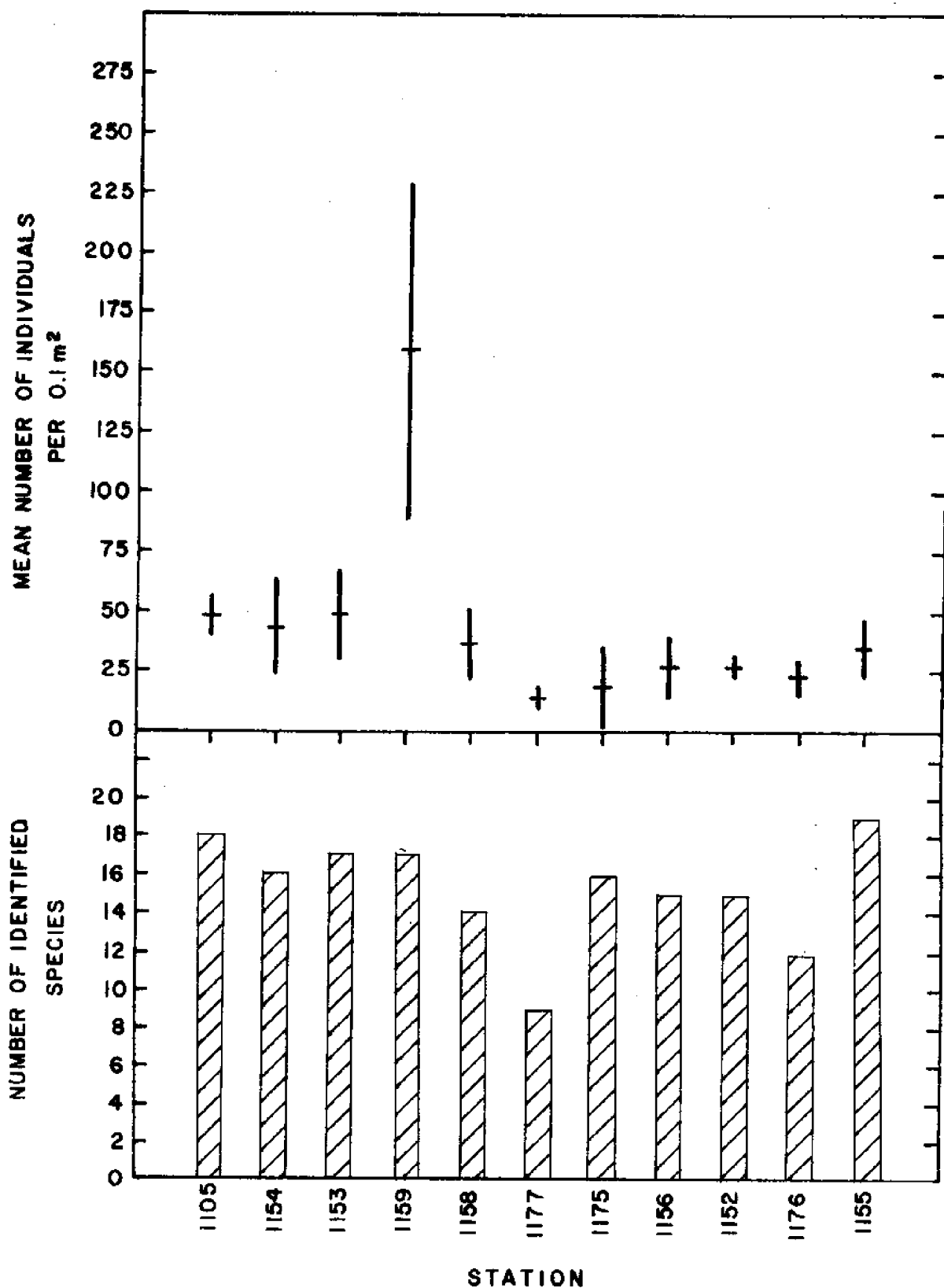


Figure 29. Total number of identified species of Bivalvia and the mean number of individuals of Bivalvia per 0.1 m² with 95% confidence limits, August 1972

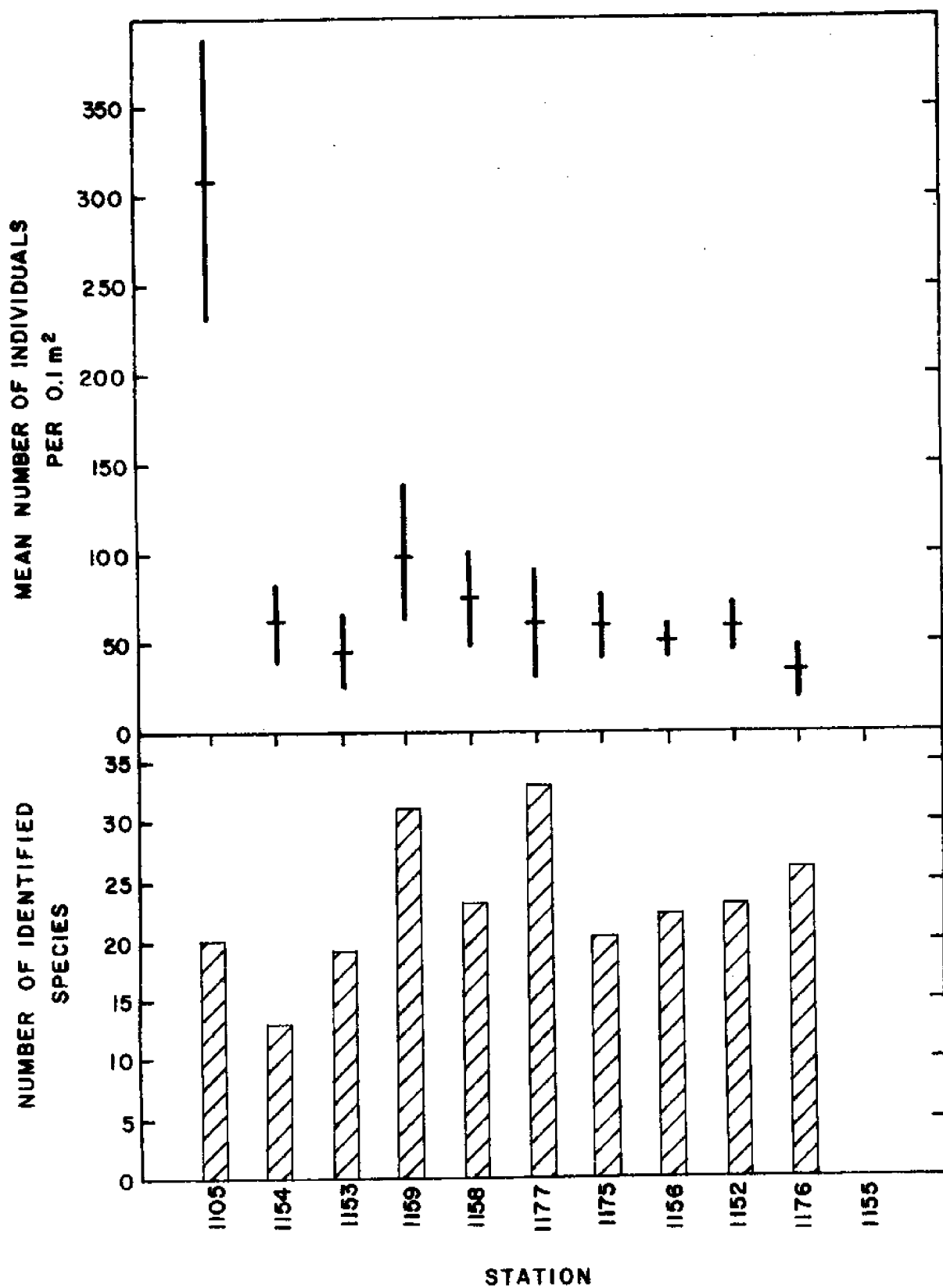


Figure 30. Total number of identified species of Crustacea and the mean number of individuals of Crustacea per 0.1 m² with 95% confidence limits, August - October 1971

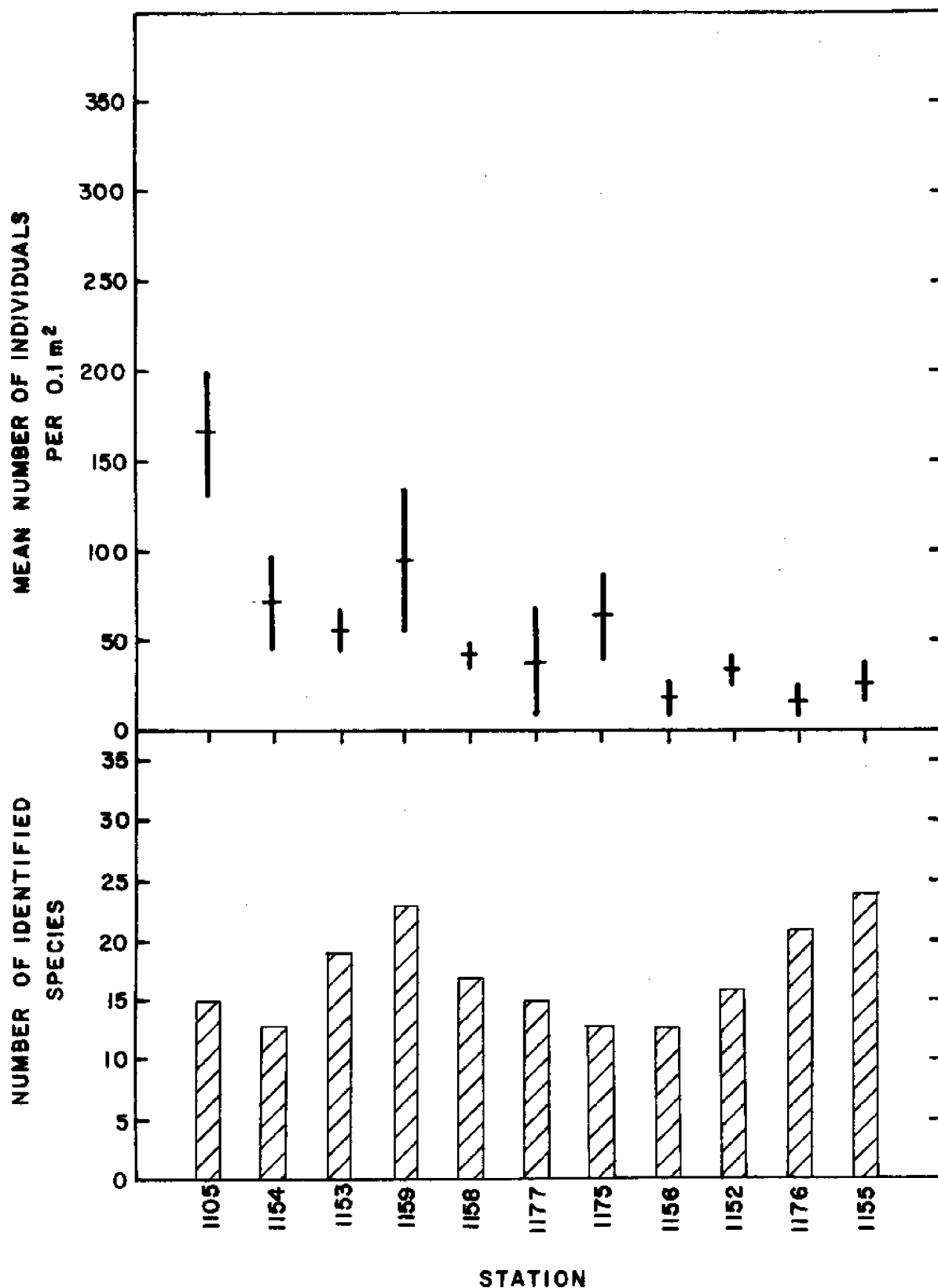


Figure 31. Total number of identified species of Crustacea and the mean number of individuals of Crustacea per 0.1 m² with 95% confidence limits, November 1971

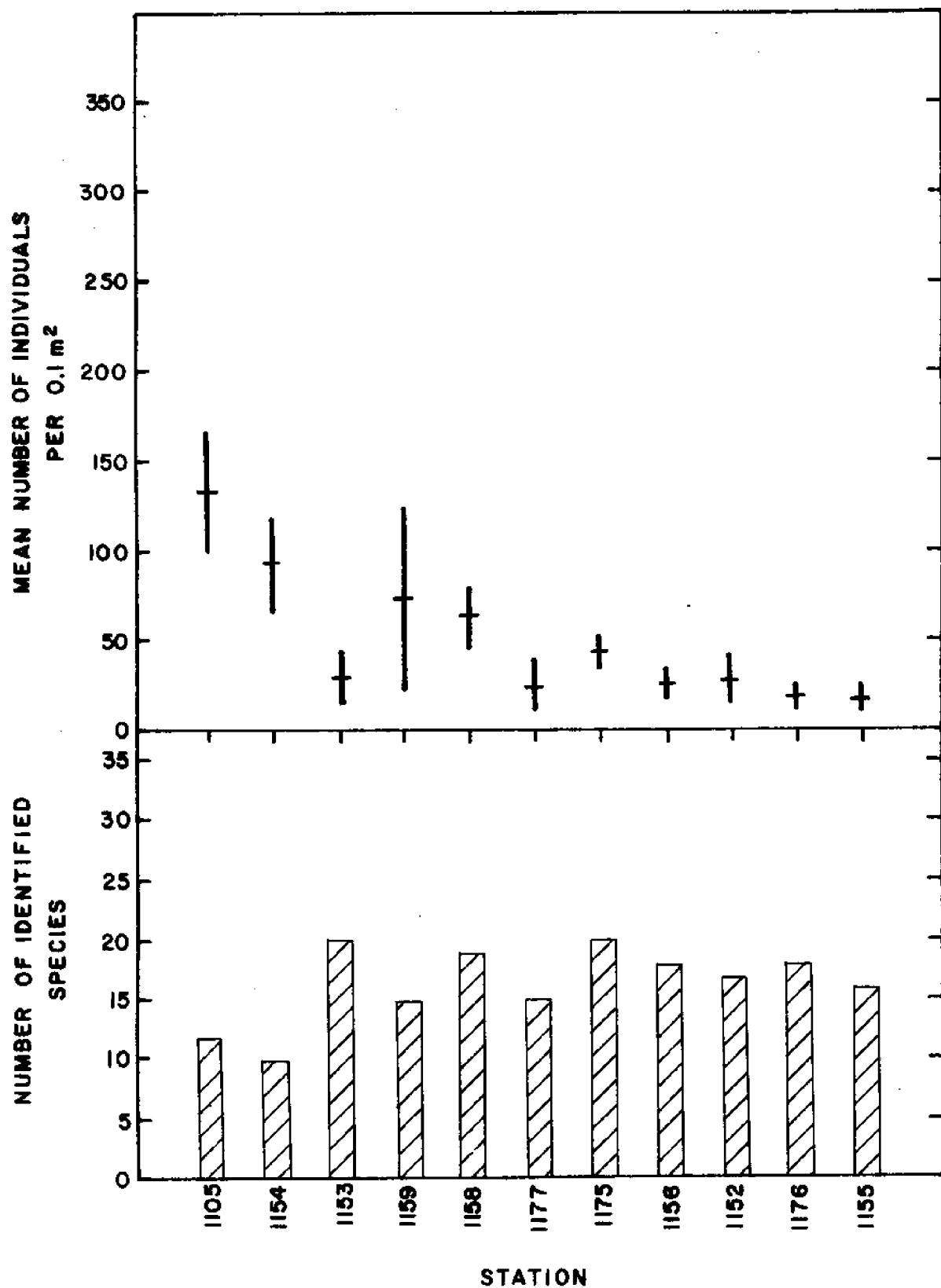


Figure 32. Total number of identified species of Crustacea and the mean number of individuals of Crustacea per 0.1 m² with 95% confidence limits, February 1972

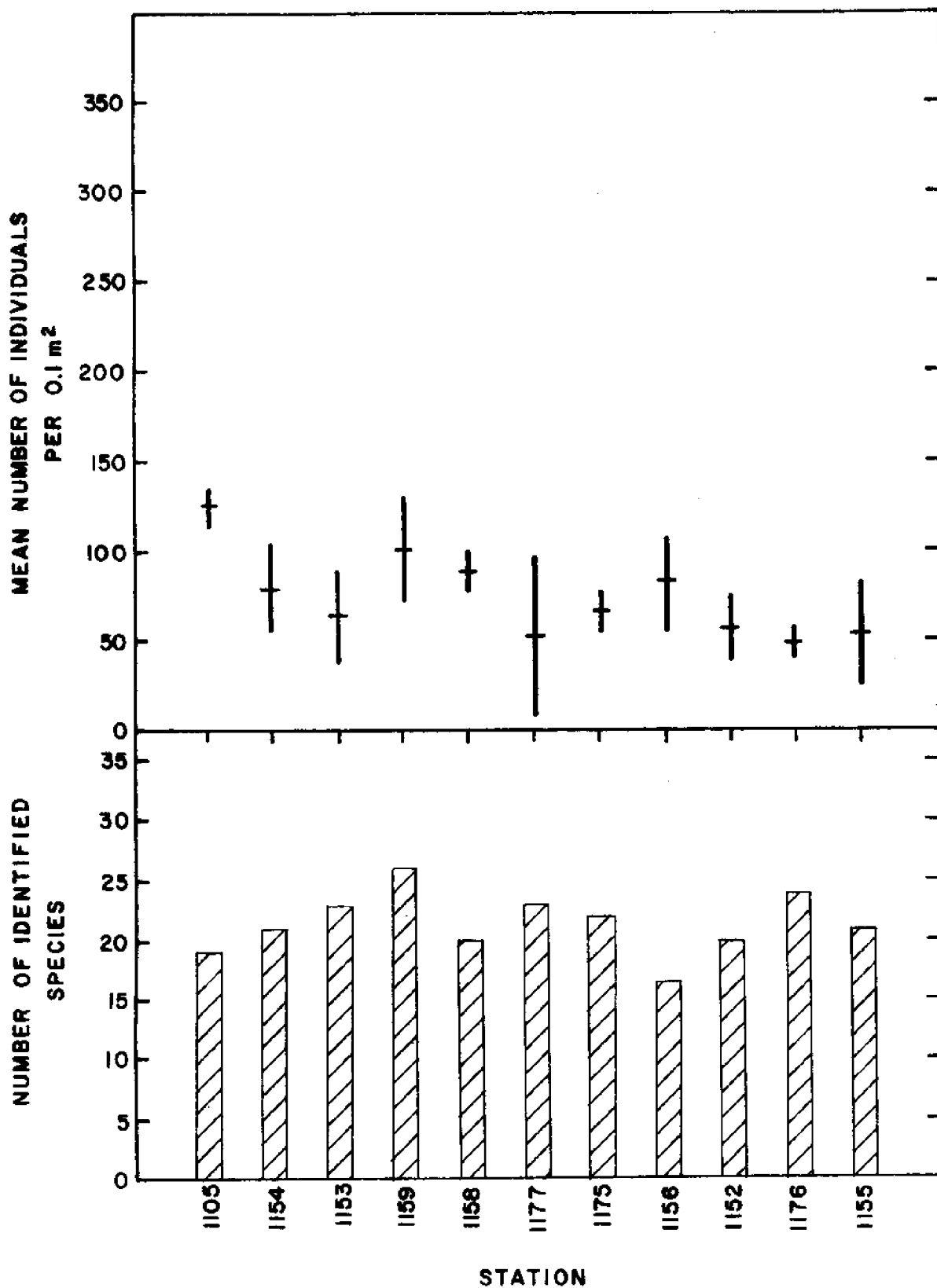


Figure 33. Total number of identified species of Crustacea and the mean number of individuals of Crustacea per 0.1 m² with 95% confidence limits, May 1972

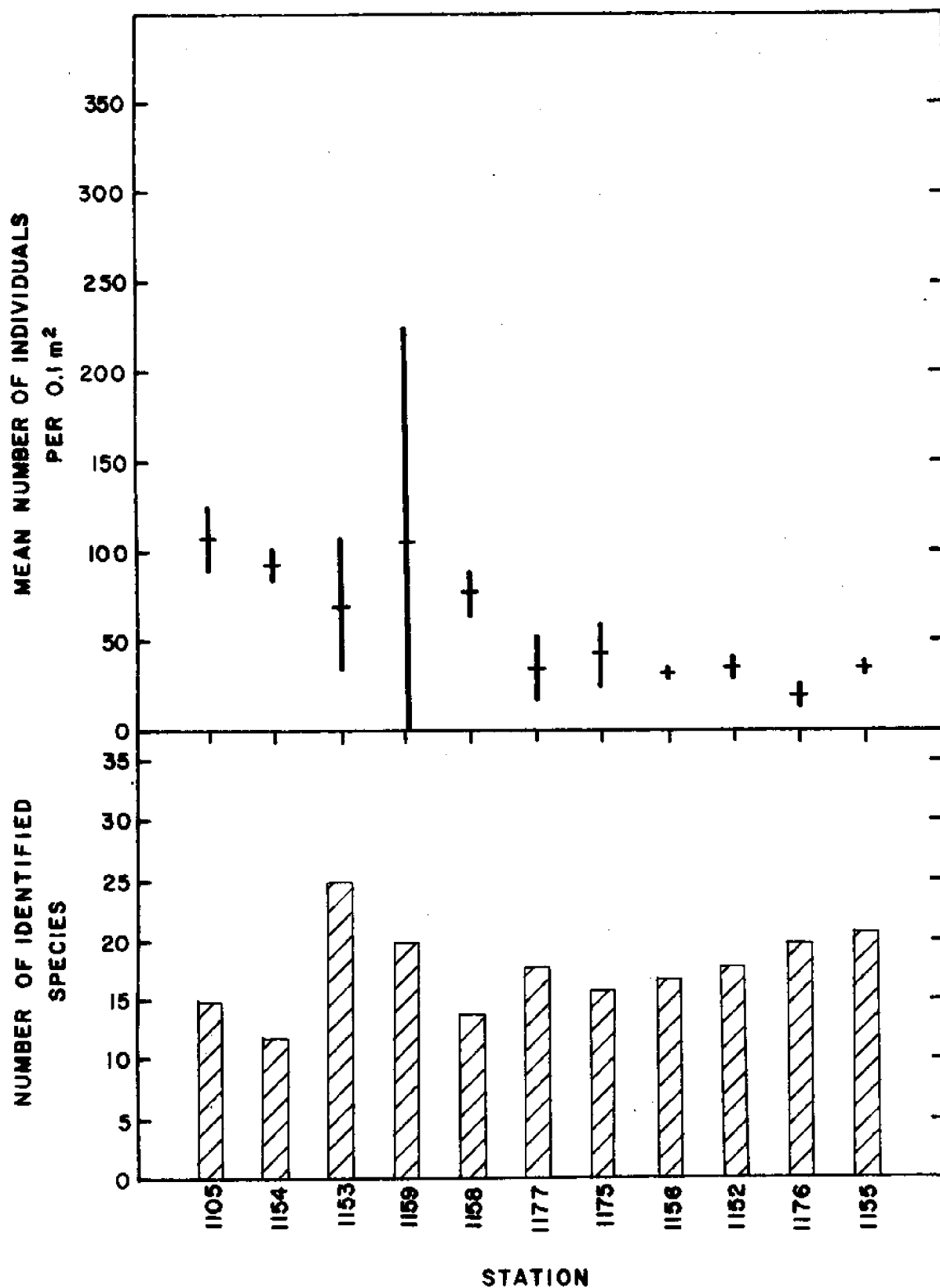


Figure 34. Total number of identified species of Crustacea and the mean number of individuals of Crustacea per 0.1 m² with 95% confidence limits, August 1972

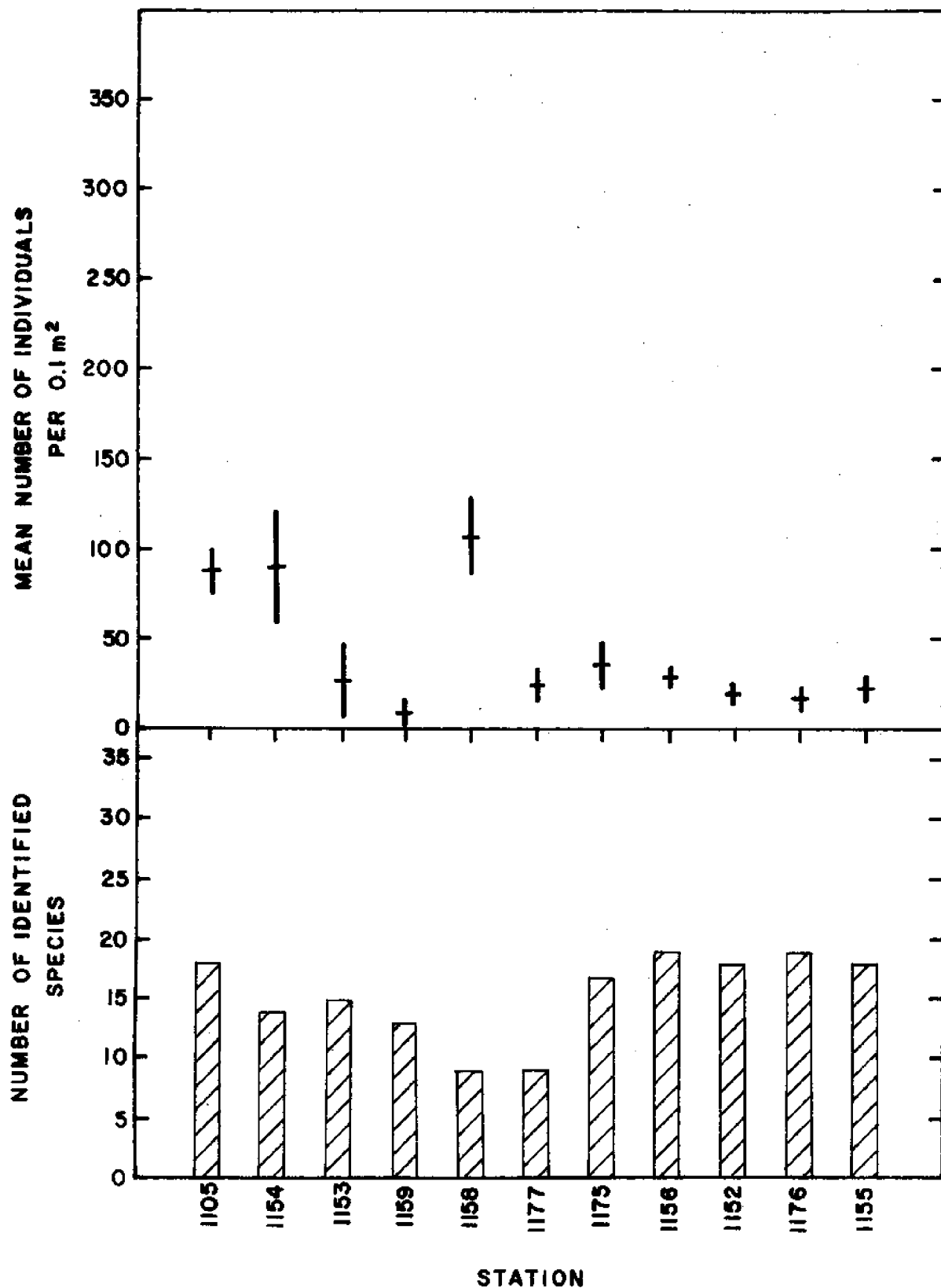


Figure 35. Total number of identified species of Crustacea and the mean number of individuals of Crustacea per 0.1 m² with 95% confidence limits, November 1972

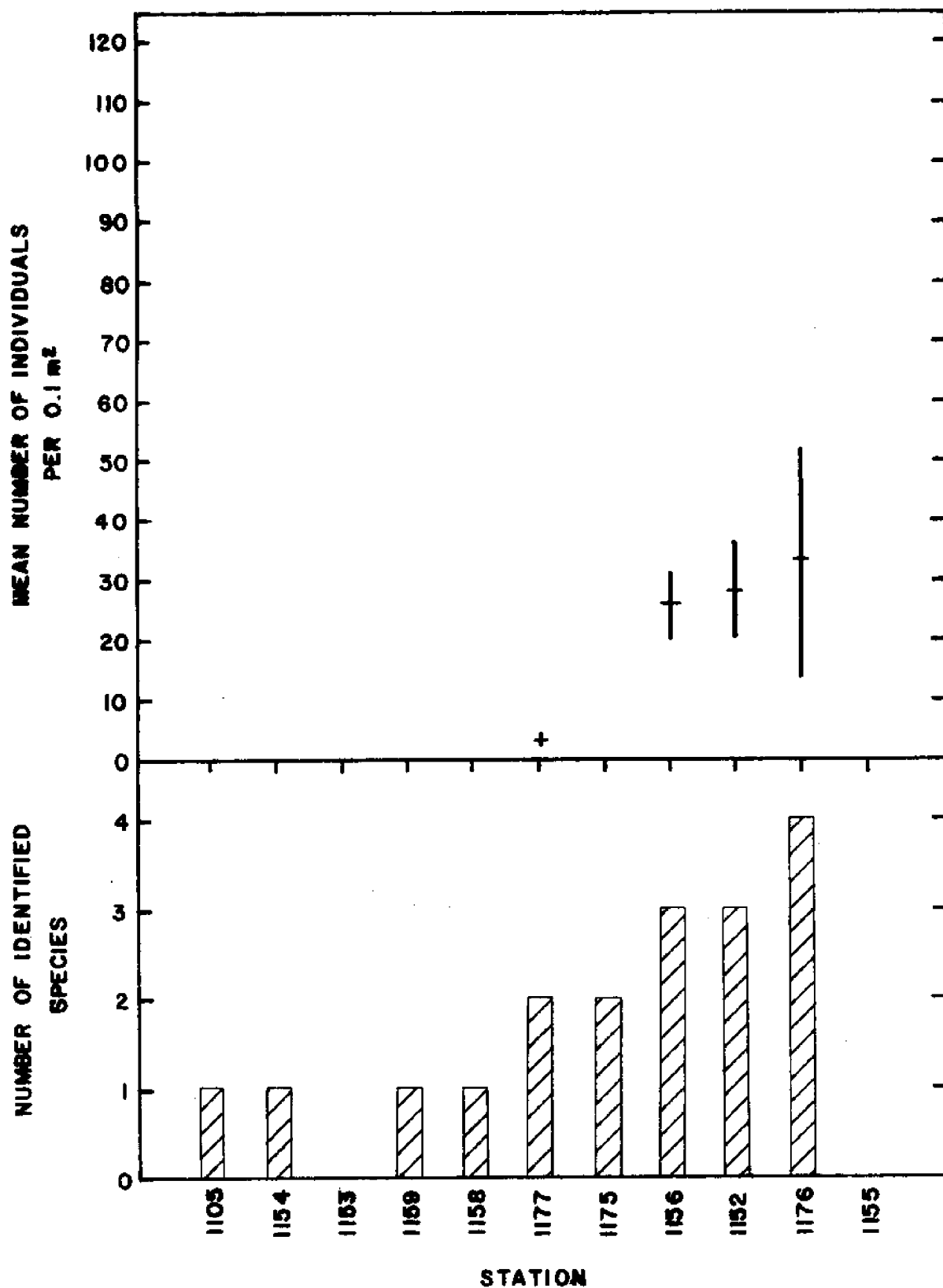


Figure 36. Total number of identified species of Ophiuroidea and the mean number of individuals of Ophiuroidea per 0.1 m² with 95% confidence limits, August - October 1971

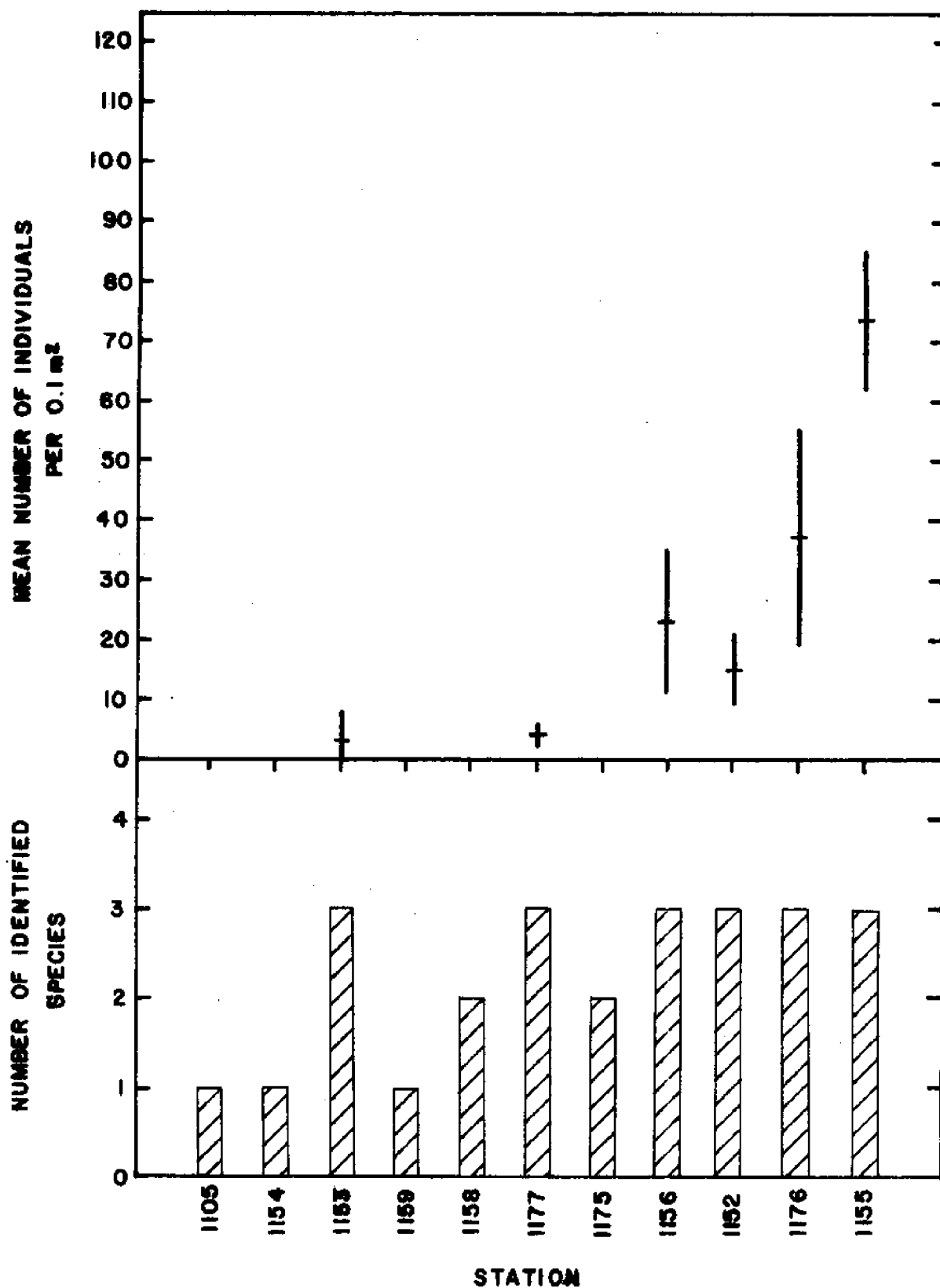


Figure 37. Total number of identified species of Ophiuroidea and the mean number of individuals of Ophiuroidea per 0.1 m² with 95% confidence limits, November 1971

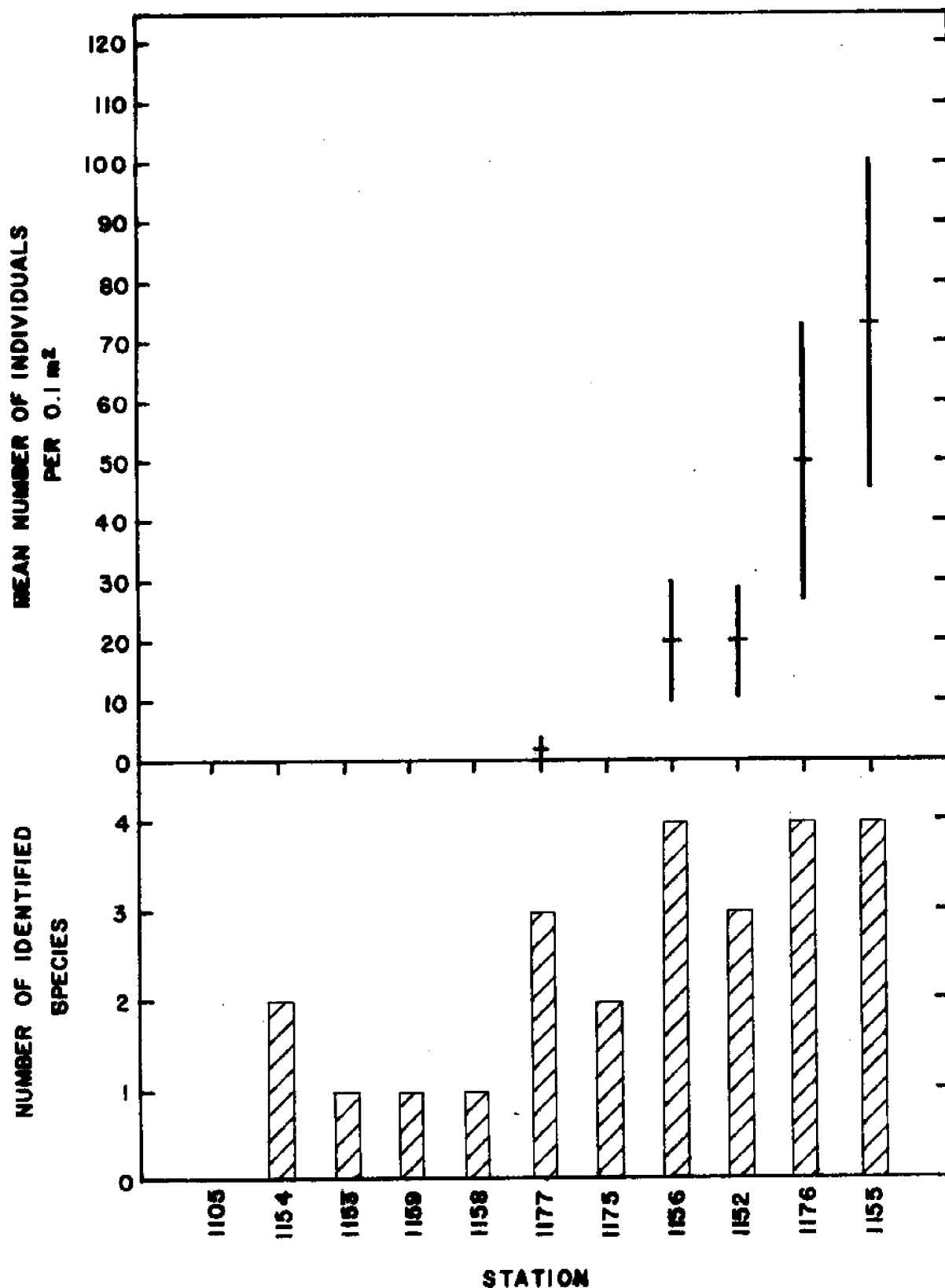


Figure 38. Total number of identified species of Ophiuroidea and the mean number of individuals of Ophiuroidea per 0.1 m² with 95% confidence limits, February 1972

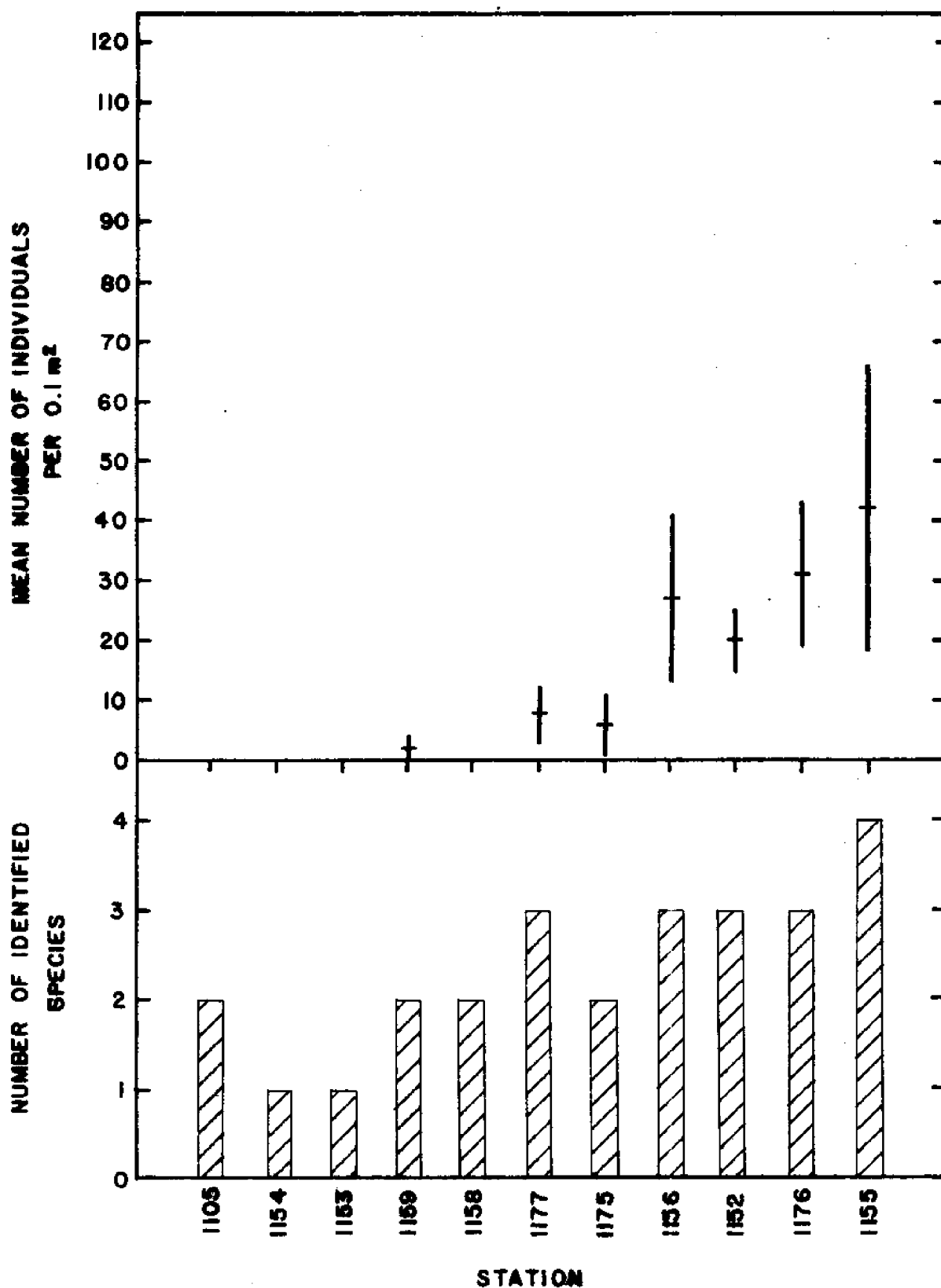


Figure 39. Total number of identified species of Ophiuroidea and the mean number of individuals of Ophiuroidea per 0.1 m² with 95% confidence limits, May 1972

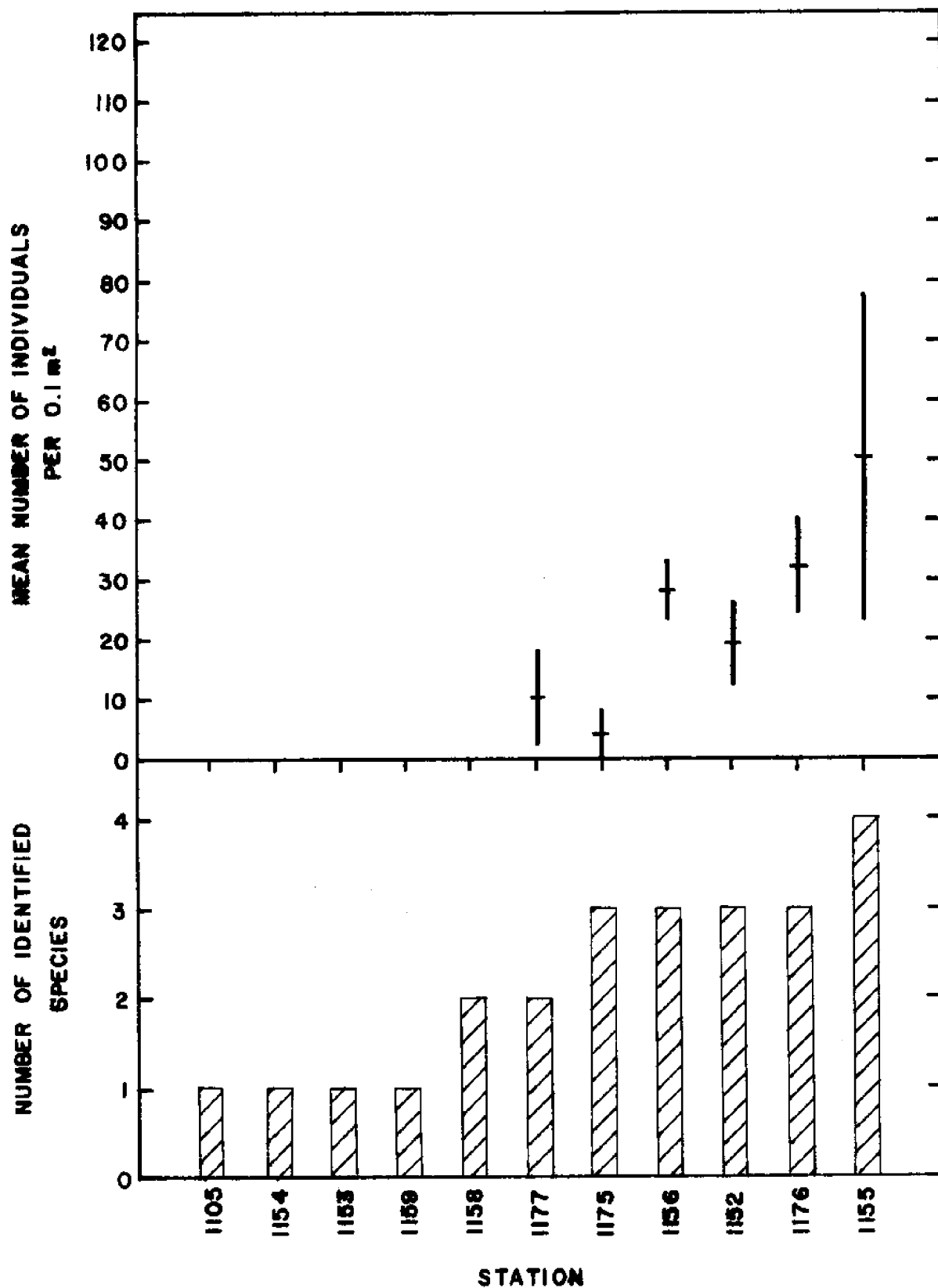


Figure 40. Total number of identified species of Ophiuroidea and the mean number of individuals of Ophiuroidea per 0.1 m² with 95% confidence limits, August 1972

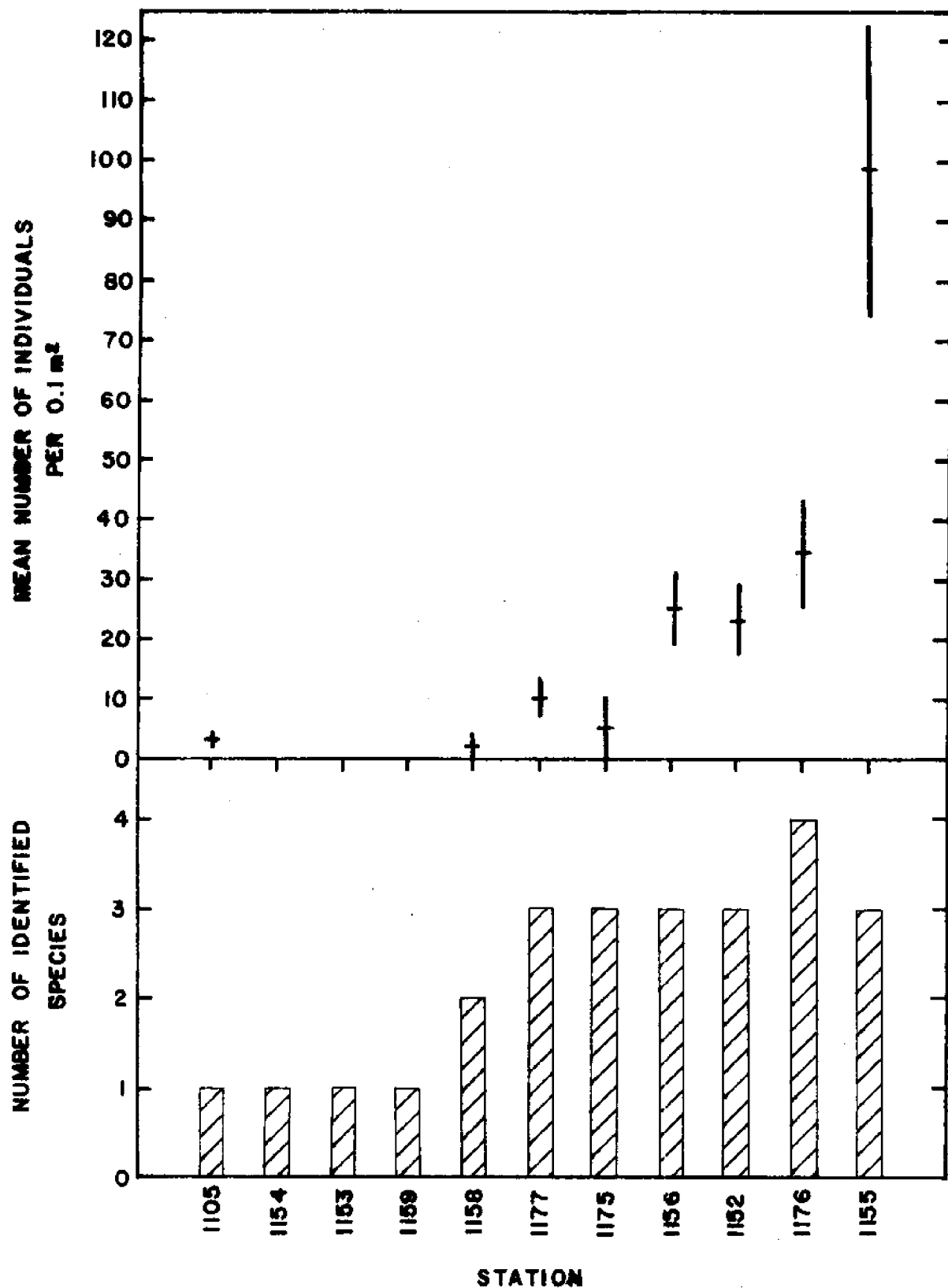


Figure 41. Total number of identified species of Ophiuroidea and the mean number of individuals of Ophiuroidea per 0.1 m² with 95% confidence limits, November 1972

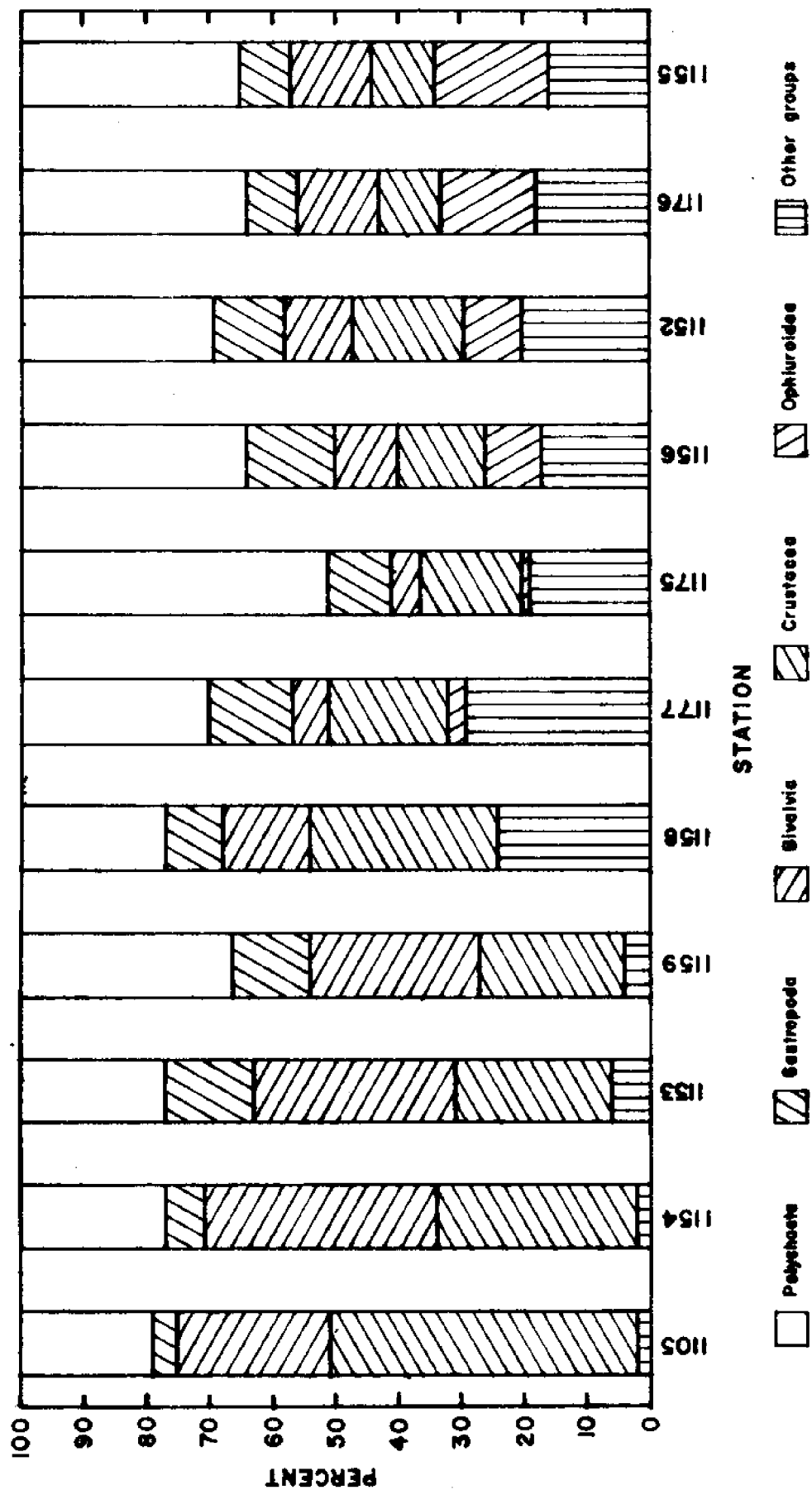


Figure 42. Percent composition of the numbers of individuals comprising the major components of the fauna at the eleven benthic stations for the period of August 1971 through August 1972

Table 71

A taxonomic list, showing the distributions of all of the genera and species that were collected from October 1971 through February 1973 at the eleven benthos stations in northern Monterey Bay.

+ = Present, mean # individuals per 0.1 m^2 < 2.00
 C = Common, mean # individuals per 0.1 m^2 > 2.00 but < 20.00
 A = Abundant, mean # individuals per 0.1 m^2 > 20.00

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
POLYCHAETA											
Aphroditidae											
<u>Aphrodita parva</u> Moore, 1905	+				+		+	+	+	+	
<u>Aphrodita refulgida</u> Moore, 1910				+	+	+			+	+	
Polynoidae											
<u>Halosydna brevisetosa</u> Kinberg, 1855			+	+		+					
<u>Harmothoe</u> nr. <u>lunulata</u> (delle Chiaje, 1841)	+	+	+	+	+	+	+	+	C	+	+
<u>Harmothoe priops</u> Hartman, 1961	+	+	+	+	+	+	+	+	+	+	+
<u>Harmothoe</u> sp. a									+		
<u>Harmothoe</u> sp. b				+	+						
<u>Hesperone laevis</u> Hartman, 1961							+	+		+	
<u>Lepidasthenia longicirrata</u> Berkeley, 1923	+	+	+	+	+		+	+	+	+	+
Polyodontidae											
<u>Peisidice aspera</u> Johnson, 1897				+							
Sigalionidae											
<u>Pholoe glabra</u> Hartman, 1961				+	+	+	C	C	C	+	C
<u>Sthenelais verruculosa</u> Johnson, 1897	C	C	+	C	+	+	+	+	+	+	+
<u>Sthenelanelia uniformis</u> Moore, 1910						+	+				

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Thalenessa spinosa</u> (Hartman, 1934)	C	C	C	+	C	C	C	C	C	+	
Phyllodocidae											
<u>Anaitides groenlandica</u> (Oersted, 1843)	+	+	+	+		+	+		+	+	+
<u>Anaitides ? multiseriata</u> Rioja, 1941										+	
<u>Anaitides williamsi</u> Hartman, 1936			+	C		+					
<u>Anaitides</u> sp. a	+	+	+	+	+	+	+	+	+	+	+
<u>Eteone</u> nr. <u>alba</u> Webster, 1879		+			+						
<u>Eteone</u> nr. <u>longa</u> (Fabricius, 1780)	+		+	+	+	+	+	+	+		
<u>Eteone</u> nr. <u>spetsbergensis</u> Malmgren, 1865	+	+		+		+					
<u>Eteone</u> sp. a	+	+		+	+	+	C	+	+		
<u>Eulalia</u> nr. <u>aviculiseta</u> Hartman, 1936				+	+						
<u>Eumida</u> sp. a	+	+	+	C	+	+	+	+	+		
<u>Eumida</u> sp. b						+	+	+	+	+	+
<u>Genetyllis castanea</u> (Marenzeller, 1879)	+			+	+	+			+		
<u>Paranaitis polynoides</u> (Moore, 1909)	+					+	+	+	+		
<u>Paranaitis</u> sp. a						+	+		+	+	
<u>Phyllodoce</u> sp. a	+	+	+	C	+	+	C	+	+	+	+
Hesionidae											

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Gyptis brevipalpa</u> (Hartmann - Schroeder, 1959)	+	+	+	C	+	+	+	+	+	+	+
? <u>Ophiodromus</u> sp. a									+		
Pilargidae											
<u>Parandalia fauveli</u> (Berkeley & Berkeley, 1941)				+	+				+		
<u>Pilargis berkeleyae</u> Monro, 1933				+	+		+	+	+		
<u>Pilargis maculata</u> Hartman, 1947				+			+	+	+	+	+
<u>Sigambra tentaculata</u> (Treadwell, 1941)	+							+	+	+	+
Syllidae											
<u>Autolytus</u> sp. a						+		+			
<u>Eusyllis transecta</u> Hartman, 1966	+					+					
<u>Langerhansia</u> nr. <u>Heterochaeta</u> (Moore, 1909)				C	+	+			+		+
<u>Sphaerosyllis californiensis</u> Hartman, 1966			+	+			+	+			
<u>Typosyllis armillaris</u> (Muller, 1771)	+	+	+	+	+	+	+	+			
Nereidae											
<u>Nereis zonata</u> Malmgren, 1867	+	+	+	C			+	+	+	+	+
<u>Platynereis bicanaliculata</u> (Baird, 1863)			+	+							
Nephtyidae											
<u>Nephtys assignis</u> Hartman, 1950										+	+

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Nephtys caecoides</u> Hartman, 1938	+	C	+	+	+		+	C	C	+	+
<u>Nephtys cornuta franciscana</u> Clark & Jones, 1955	+	+		+	C	C	C	C	C	+	
<u>Nephtys ferruginea</u> Hartman, 1940				+	+	+	+	+	+	C	C
<u>Nephtys parva</u> Clark & Jones, 1955	+	+	+	C	+	+	+	+	+	+	+
Sphaerodoridae											
<u>Ephesiella brevicapitis</u> (Moore, 1909)				+				+	+	+	+
<u>Sphaerodoridium minutum</u> (Webster & Benedict, 1887)						+					
<u>Sphaerodoridium sphaerulifer</u> (Moore, 1909)											+
Glyceridae											
<u>Glycera americana</u> Leidy, 1855	+		+	C	+		+	+	+	+	+
<u>Glycera capitata</u> Oersted, 1843	+			+	+	+	+	+	+	C	C
<u>Glycera convoluta</u> Keferstein, 1862	C	C	C	C	+	+	+	+	+		
<u>Glycera oxycephala</u> Ehlers, 1887			+								
<u>Glycera robusta</u> Ehlers, 1868								+	+	+	+
<u>Glycera</u> sp. a	C				+			+	+		
<u>Hemipodus borealis</u> Johnson, 1901		+									
Goniadidae											
<u>Glycinde</u> sp. a	C	C	C	C	C	C	C	C	C	+	+

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Goniada brunnea</u> Treadwell, 1906								+		+	C
<u>Goniada maculata</u> Oersted, 1843	+	+	+	+	+	+	+	+	+		
Onuphidae											
<u>Diopatra ornata</u> Moore, 1911			+	+	+	+	+	+		+	
<u>Nothria elegans</u> (Johnson, 1901)	C	C	C	C	C	+	C	C	+	+	+
<u>Nothria iridescens</u> (Johnson, 1901)										+	+
<u>Onuphis parva</u> Moore, 1911						+				+	C
Lumbrineridae											
<u>Lumbrineris bicirrata</u> Treadwell, 1929										+	
<u>Lumbrineris californiensis</u> Hartman, 1944	+	+	+	+	+	+	+	C	+		+
<u>Lumbrineris cruzensis</u> Hartman, 1944			+	+	+	+	+	C	+	C	C
<u>Lumbrineris index</u> Moore, 1911										+	+
<u>Lumbrineris inflata</u> Moore, 1911				+							
<u>Lumbrineris lagunae</u> Fauchald, 1970									+	+	+
<u>Lumbrineris latreilli</u> Audouin & Milne Edwards, 1834	+	+									
<u>Lumbrineris limicola</u> Hartman, 1944				+				+	+		
<u>Lumbrineris luti</u> Berkeley & Berkeley, 1945	C	C	C	A	+	+	C	+	C	C	C
<u>Lumbrineris tetraura</u> (Schmarda, 1861)			+								

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Lumbrineris</u> sp. a				+	+	+	+	+	+		
<u>Ninoe</u> sp. a								+	+	C	C
Arabellidae											
<u>Arabella pectinata</u> Fauchald, 1970			+	+	+	+		+	+	+	
<u>Drilonereis falcata</u> Moore, 1911							+	+	+	+	+
<u>Drilonereis ? filum</u> (Claparede, 1868)								+	+	+	+
<u>Drilonereis longa</u> Webster, 1879							+	+		+	
<u>Drilonereis</u> sp. a					+					+	+
Dorvillidae											
<u>Protodorvillea recuperata</u> Banse & Nichols, 1968				+							
? <u>Protodorvillea</u> sp. a		C									+
Orbinidae											
<u>Haploscoloplos pugettensis</u> (Pettibone, 1957)	C	C	C	A	+		C	+	+		+
<u>Naineris uncinata</u> Hartman, 1957									+		
<u>Phylo felix</u> Kinberg, 1866	C	+	C	C	C	+	C	C	+		+
<u>Scoloplos armiger</u> (Muller, 1776)	C	+		+	+	C	C	C	+	C	+
Paraonidae											
<u>Aedicira antennata</u> (Annenkova, 1934)										+	+

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1182	1176	1155
<u>Aedicia</u> nr. <u>pacifica</u> (Hartman, 1944)				+			+	+			
<u>Aedicia</u> sp. a	+		+								
<u>Aricidea</u> <u>ramosa</u> Annenkova, 1934							+	+	+	+	+
<u>Aricidea</u> nr. <u>suecica</u> (Eliason, 1920)	+	+	+	+	+	0	0	0	0	+	+
<u>Aricidea</u> sp. a			+	+	+		+	+	+		
<u>Paradoneis</u> sp. a									+		
<u>Paraonis</u> <u>ivanovi</u> Annenkova, 1934			+				+	+	+	+	C
Apistobranchidae											
<u>Apistobranchus</u> <u>ornatus</u> Hartman, 1965											+
Spionidae											
<u>Boccardia</u> <u>basilaria</u> Hartman, 1961				+							
<u>Dispio</u> <u>uncinata</u> Hartman, 1951		+	+								
<u>Laonice</u> <u>cirrata</u> Sars, 1851			+	+	+	+	+	+	+	C	+
<u>Nerine</u> <u>foliosa</u> <u>occidentalis</u> Hartman, 1961	+				+	+	+	+	+	+	+
<u>Paraprionospio</u> <u>pinnata</u> (Ehlers, 1901)				+	+	+	+	C	C	A	A
<u>Polydora</u> <u>brachycephala</u> (Hartman, 1936)			+	+					+		
<u>Polydora</u> nr. <u>caeca</u> (Oersted, 1843)	+		+	+	+	+	+	+			+
<u>Polydora</u> <u>limicola</u> Annenkova, 1934			+	+		+					

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Prionospio cirrifera</u> Wiren, 1883	+	+	+	+	+	+	A	C	C	C	+
<u>Prionospio malmgreni</u> Claparede, 1870	+		+	+	+	C	C	C	+	C	+
<u>Prionospio pygmaeus</u> Hartman, 1961	C	A	C	C	+	C	+	+	+	+	+
<u>Pseudopolydora</u> sp. a	+			C	+		A	+		+	+
<u>Rhyncospio arenicola</u> Hartman, 1936	+										
<u>Spio filicornis</u> (Muller, 1766)								+		+	
<u>Spiophanes bombyx</u> (Claparede, 1870)	C	C	C	C	C	A	C	C	C	A	C
<u>Spiophanes missionensis</u> Hartman, 1941	+	+	+	+	+	+	C	C	+	C	C
<u>Spiophanes</u> sp. a	+	+	+	C	C	C	C	C	C	C	C
Magelonidae											
<u>Magelona</u> nr. <u>pitelkai</u> Hartman, 1944	C	+	+	C	C	C	C	C	C	+	+
<u>Magelona sacculata</u> Hartman, 1961	+	+	+	+	+	+	A	C	C	+	
<u>Magelona</u> spp.	+	+	+	+	+	+	A	C	C	+	C
Disomidae											
<u>Disoma franciscanum</u> Hartman, 1947									+		+
Poecilochaetidae											
<u>Poecilochaetus johnsoni</u> Hartman, 1939	+		+	+	+		+	+	+	+	+
Chaetopteridae											

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1182	1176	1155
<u>Mesochaetopterus taylori</u> Potts, 1914			+	+							
<u>Phyllochaetopterus limicolus</u> Hartman, 1960				+		+					+
<u>Telepsavus costarum</u> Claparede, 1870	+	+	+	+	+	+	C	+	+	+	+
Cirratulidae											
<u>Chaetozone setosa</u> Malmgren, 1867	C	C	C	C	C	C	C	C	C		
<u>Chaetozone</u> sp. a	+										
<u>Cirriiformia spirabanchia</u> (Moore, 1904)									+		
<u>Tharyx monilaris</u> Hartman, 1960										+	+
<u>Tharyx tessellata</u> Hartman, 1960						+			+	+	+
<u>Tharyx</u> spp.			+	C	+	C	C	C	C	C	C
Cossuridae											
<u>Cossura rostrata</u> Fauchald, 1972					+		+	C	+	+	+
Flabelligeridae											
<u>Brada pluribranchiata</u> (Moore, 1923)										+	C
<u>Brada villosa</u> (Rathke, 1843)				+	+	+	C	C	C	+	
? <u>Flabelligella</u> sp. a				+		+					
<u>Flabelligera infundibularis</u> Johnson 1901										+	
<u>Pherusa neopapillata</u> Hartman, 1961								+		+	

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Pherusa</u> ? <u>papillata</u> (Johnson, 1901)				+		+					+
<u>Piromis</u> <u>hospitis</u> Fauchald, 1970										+	+
Scalibregmidae											
<u>Scalibregma</u> <u>inflatum</u> Rathke, 1843	+	+	A	A	+	+	+	+	+	+	C
Opheliidae											
<u>Ammotrypae</u> <u>aulogaster</u> Rathke, 1843										+	+
<u>Armandia</u> <u>bioculata</u> Hartman, 1938	A	A	+	C	+						
<u>Ophelia</u> <u>assimilis</u> Tebble, 1953			+								
<u>Travisia</u> <u>brevis</u> Moore, 1923										+	+
<u>Travisia</u> <u>pupa</u> Moore, 1906										+	+
<u>Travisia</u> <u>gigas</u> Hartman, 1938	+	+	+		+	+	+	+			+
<u>Travisia</u> <u>sp. a</u>	+						+		+		
Sternaspidae											
<u>Sternaspis</u> <u>fossor</u> Stimpson, 1854						+	C	C	C	C	C
Capitellidae											
<u>Decamastus</u> <u>sp. a</u>				+			+	+		+	+
<u>Heteromastus</u> <u>filobranthus</u> Berkeley & Berkeley, 1932				C			+		+		+
<u>Mediomastus</u> <u>acutus</u> Hartman, 1969	+		+	+		+					

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1182	1176	1155
<u>Mediomastus californiensis</u> Hartman, 1944	+	+	+	A	C	C	C	A	A	C	C
<u>Notomastus (Clistomastus) tenuis</u> Moore, 1909	+	+	+	C		+		+		+	+
<u>Notomastus magnus</u> Hartman, 1947	+	+	+	C	+	+	+	+	+	+	+
Maldanidae											
<u>Asychia disparidentata</u> (Moore, 1904)				+	+	+	+	C	C	+	+
<u>Axiothella rubrocincta</u> (Johnson, 1901)	+	+	+	C	+	+		+			
? <u>Clymenella</u> sp. a				C		+	C	C	C	+	
<u>Isocirrus longiceps</u> (Moore, 1923)			+	+				+	+		
<u>Maldane cristata</u> Treadwell, 1923					+		+	+	+	C	C
<u>Praxillella affinis pacifica</u> Berkeley, 1929				C	+	+	+	+	C	+	+
<u>Praxillella gracilis</u> (Sars, 1861)											+
<u>Rhodine bitorquata</u> Moore, 1923								+		+	+
Oweniidae											
<u>Myriochele heeri</u> Malmgren, 1867										C	+
<u>Owenia collaris</u> Hartman, 1955		+	+	+	+	+	+	+	C	+	
Sebellariidae											
<u>Sebellaria cementarium</u> Moore, 1906			+			C					
Pectinariidae											

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Cistenides brevicoma</u> (Johnson, 1901)			+	+							
<u>Pectinaria californiensis</u> Hartman, 1941	C	+	+	+	+		+	+	+	+	C
Ampharetidae											
<u>Amage scutata</u> Moore, 1923										+	+
<u>Ampharete</u> nr. <u>labrops</u> Hartman, 1961	+	+	C	C	+	+	+	+	+	+	+
<u>Amphicteis mucronata</u> Moore, 1923										+	+
<u>Amphicteis scaphobranchiata</u> Moore, 1906		+		+	+	+	C	+	+	+	+
<u>Anobothrus</u> sp. a								+		+	
<u>Melinna oculata</u> Hartman, 1969					+	+	+	+	+	+	+
<u>Samytha californiensis</u> Hartman, 1969										+	+
<u>Schistococcus hiltoni</u> Chamberlin, 1919				+		+					+
Terebellidae											
<u>Amaseena occidentalis</u> (Hartman, 1944)	+	+	C	C	+	+	C	C	C	+	+
<u>Artacama coniferi</u> Moore, 1905								+		+	
<u>Eupolyornia crescentis</u> Chamberlin, 1919			+								
<u>Lanassa gracilis</u> (Moore, 1923)						+	+	+	+	+	+
<u>Lolmia</u> nr. <u>medusa</u> (Savigny, 1818)	+	+		+		+	+	+	+		+
<u>Pista fasciata</u> (Grube, 1870)			+	+	+	+	+	+	+	+	+

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Pista moorei</u> Berkeley & Berkeley, 1942										+	+
<u>Pista</u> sp. a								+			
<u>Polycirrus</u> spp.				+	+	+	+	+	+	+	+
<u>Streblosoma</u> sp. a	+	+	+	0	0	+		+	+	+	+
Trichobranchidae											
<u>Terebellides stroemi</u> Sars, 1835							+	+	+	C	C
<u>Trichobranchus glacialis</u> Malmgren, 1866										+	
Sabellidae											
<u>Chone ecaudata</u> (Moore, 1923)						+					
<u>Chone gracilis</u> Moore, 1906										+	+
<u>Chone</u> nr. <u>mollis</u> (Bush, 1904)	+	C	+	+		+	+	+	+		
<u>Chone veleronis</u> Bansen 1972					+	+			+		
<u>Euchone incolor</u> Hartman, 1965				+	+		+				
<u>Megalomma pigmentum</u> Reish, 1963								+			
<u>Megalomma splendida</u> (Moore, 1905)										+	
<u>Myxicola infundibulum</u> (Renier, 1804)											+
<u>Potamilla</u> sp. a						+	+	+	+		
<u>Pseudopotamilla</u> sp. a				+							

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
APLACOPHORA											
<u>Chaetoderma</u> spp.	+			+	C	+	C	+	+	C	C
GASTROPODA											
Opisthobranchia											
<u>Acteocina</u> spp.	C	+	+	C	C	C	C	C	C	+	C
<u>Aglaia diomedea</u> (Bergh, 1893)	+	+		+	+			+	+	+	+
<u>Aglaia ocelligera</u> Bergh, 1894		+			+	+	+	+	+	+	+
<u>Cyllichna attonsa</u> (Carpenter, 1865)		+	+	C	C	C	C	C	C	C	C
<u>Gastroperon pacificum</u> Bergh, 1893						+	+	+	+	+	+
<u>Odostomia (Amura)</u> spp.	+			+	+	+	+		+	+	
<u>Odostomia (Evalea)</u> spp.	C	C	C	C	C	+	C	C	+	+	+
<u>Philina</u> sp. a								+		+	+
<u>Pteruobranchaea</u> sp.										+	
<u>Rictaxis punctocaelatus</u> (Carpenter, 1864)		+		+	+	+	+	C	C	+	+
<u>Turbonilla</u> spp.	+	+	+	C	C	+	+	C	C	+	+
<u>Volvullella cylindrica</u> (Carpenter, 1863)	+			+	+	C	+	C	C	+	C
<u>Volvullella panamica</u> Dall, 1919				+			+	+	+	+	+
<u>Nudibranchia</u> a	+			+	+	+	+	+	+	+	+

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Nudibranchia</u> b					+						
Prosobranchia											
Mesogastropoda											
<u>Alvinia acutellirata</u> Carpenter, 1866		+	C	C						C	+
<u>Balcis rutila</u> (Carpenter, 1864)			+	+		+		+	+		
<u>Balcis</u> spp.		+				+		+	+		
<u>Cerithiopsis</u> sp. a			+								
<u>Cyclostremella californica</u> Bartsch, 1907			+		+	+		+	+		
<u>Epitonium bellastriatum</u> (Carpenter, 1864)					+	+	+	+	+	+	+
<u>Epitonium cooperi</u> Strong, 1930			+	+							
<u>Epitonium tabulatum</u> Dall, 1917					+	+		+	+		+
<u>Epitonium tinctum</u> (Carpenter, 1864)	+	+	+	+	+	C	+	+	+	+	+
<u>Fartulum occidentale</u> Bartsch, 1920			+	+							
<u>Lacuna</u> spp.					+						
<u>Polinices draconis</u> (Dall, 1903)					+			+	+		
<u>Polinices lewisii</u> (Gould, 1847)	+	+		+	+	+	+				
<u>Polinices reclusianus</u> (Deshayes, 1839)	+	+		+	+	+		+	+		
<u>Scissilabra dalli</u> Bartsch, 1907				C							

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Sinum scopulosum</u> (Conrad, 1849)								+			
<u>Vitrinella oldroydi</u> Bartch, 1907			+								
Neogastropoda											
<u>Cancellaria</u> sp.										+	
<u>Granulina margaritula</u> (Carpenter, 1857)			+								
<u>Kurtzia arteaga</u> (Dall & Bartch, 1910)	+	+	+	+	C	C	C	C	C	C	C
<u>Kurtziella plumbea</u> (Hinds, 1843)	+	C	C	+	+	+	+	+	+		
<u>Mitrella gouldii</u> (Carpenter, 1857)	+		+	C	C	C	C	C	C	C	C
<u>Mitrella tuberosa</u> (Carpenter, 1864)			+	C							
<u>Nassarius fossatus</u> (Gould, 1849)		+	+								
<u>Nassarius mendicus</u> (Gould, 1849)		+	C	C	+	+	+	+		+	+
<u>Nassarius perpinguis</u> (Hinds, 1844)	+	+		+	+	+			+		
<u>Nassarius rhynetes</u> Berry, 1935						+	+				
<u>Ocenebra beta</u> (Dall, 1919)			+								
<u>Olivella pycna</u> Berry, 1935	C	A	C	C	+	+	+	+	+		
<u>Ophiodermella halcyonis</u> (Dall, 1908)			+		+	+	+	+	+		+
SCAPHOPODA											
<u>Cadulus fusiformis</u> Pilsbry & Sharp, 1898	+	+	+	C	C	C	C	C	C	C	C

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Dentalium neohexagonum</u> Sharp & Pilsbry, 1897				+		+	+	+	+	+	+
<u>Dentalium rectius</u> Carpenter, 1864										+	+
BIVALVIA											
<u>Astarte</u> sp.	+			C	+	C	C	C	C	C	C
<u>Asthenothaerus villosior</u> Carpenter, 1864				+			+	+	+	+	+
<u>Axinospida</u> sp.	+			+	+	+	C	+	C	A	C
<u>Cardium quatuorgenarium</u> Conrad, 1837	+	+	+	C						+	+
<u>Clinocardium nuttalli</u>		+									
<u>Compsomyx subdiaphana</u> (Carpenter)	+	+		+	C	C	C	C	+	C	C
<u>Cooperella subdiaphana</u> (Carpenter, 1864)	C	C	C	+	C	C	+	C	C	+	C
<u>Cuspidaria apodema</u> Dall, 1916										+	+
<u>Entodesma saxicola</u> (Baird, 1863)	+			+	+	+		+			+
<u>Hainopsida</u> sp.				+							
<u>Lyonsia californica</u> Conrad, 1837	+	+	+	+	+	+	+	+	+	+	+
<u>Macoma nasuta</u> (Conrad, 1837)	+	C	+	+	+		+	+		+	
<u>Macoma yoldiformis</u> Carpenter, 1864	C	C	C	A	C	C	C	C	C	C	+
<u>Mactra californica</u> Conrad, 1837	A	C	+	+			+				
<u>Mactra</u> sp.	+	+		+							

SPECIES	1103	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Modiolus rectus</u> Conrad, 1837	+		C	+		+	+	+	+	+	+
<u>Mya arenaria</u> Linnaeus, 1758				C							
<u>Myrella aleutica</u>	C	+	C	C	C	+	+	C	C	C	C
<u>Nemocardium centrifilosum</u> (Carpenter, 1864)	+	A	C	+		+	+	+		+	+
<u>Nucula tenuis</u> (Montaque, 1802)						+	+	C	+	C	C
<u>Nuculana taphrina</u> (Dall, 1896)	C	C	A	A	C	C	C	C	C		+
<u>Nuculana</u> sp.	C	A	A	C			+	+			+
<u>Pandora bilirata</u> Conrad, 1855	C	+	C	+	+		+	+		+	C
<u>Pandora punctata</u> Conrad, 1837	+	+	C	+							
<u>Panopaea generosa</u> Gould, 1850		+									
<u>Pecten diegensis</u> Dall, 1898			+								
<u>Pecten latiauratus</u> Conrad, 1837				+		+	+				
<u>Periploma discuss</u> Stearns, 1890					+		+	+	+	C	+
<u>Platyodon cancellatus</u> (Conrad, 1837)	+			+			+	+	+		+
<u>Protothaca staminea</u> (Conrad, 1837)	A	C	A	A	C		+		+		+
<u>Psaphidia</u> sp.										C	C
<u>Saxicavella pacifica</u> Dall, 1916					+		+	+	+	+	+
<u>Saxidomus nuttalli</u> Conrad, 1837				+	+				+		

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Siliqua patula</u> (Dixon, 1788)	C	A	C	C	C	+	+	C	C		+
<u>Solamen columbianum</u> (Dall, 1897)						+		+		+	+
<u>Solen sicarius</u> Gould, 1850	+	+	+	+	+	+	+	C	C		+
<u>Tellina bodegensis</u> Hinds, 1864	+										
<u>Tellina meropsis</u> Dall, 1900	+	+	+	C	+	+	+	+			C
<u>Tellina modesta</u> (Carpenter, 1864)	A	A	A	A	+	+	+	+	+	+	+
<u>Tellina nuculoides</u>	C	+			+					+	+
<u>Transennella tantilla</u> Gould, 1852				C							
<u>Vesicoma</u> sp.							+			C	
<u>Yoldia ensifera</u> Dall, 1897										+	C
<u>Yoldia scissurata</u> Dall, 1898								+			
<u>Yoldia</u> sp.										+	+
<u>Bivalvia a</u>			+				+		+	+	+
<u>Bivalvia b</u>				+						+	
<u>Bivalvia d</u>					+		+	+	+	+	+
<u>Bivalvia e</u>			+								
CEPHALOPODA											
<u>Octopus</u> sp.			+								

SPECIES		1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
CRUSTACEA												
Ostracoda												
Myodocopa												
<u>Asteropella</u> sp. a		+		+	+	+		+	+	+		
? <u>Bathyleberis</u> sp. a					+						+	
<u>Euphilomedes carcharodonta</u> (Smith, 1952)		A	A	A	A	A	C	A	C	C	+	+
<u>Euphilomedes longiseta</u> (Juday, 1907)		+						+				
<u>Euphilomedes oblonga</u> (Juday, 1907)			+					+			+	
Malacostraca												
Nebaliacea												
<u>Epinebalia pugettensis</u> Clark, 1932						+	+		+	+		
Mysidacea												
<u>Acanthomysis</u> ? <u>davisi</u> Banner, 1948		+	C	+	+	+						
<u>Acanthomysis nephrophthalma</u> Banner, 1948		+	+	+		+	+	+	+	+	+	
<u>Heteromysis</u> sp. a											+	+
<u>Metamysidopsis</u> ? <u>elongata</u> (Holmes, 1900)			+	+	+							
<u>Neomysis kadiakensis</u> Ortman, 1908		+	+	+	+	+		+	+	+	+	+
Cumacea												

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1182	1176	1155
<u>Anchiocellus occidentalis</u> (Calman, 1912)	+	+	+	+				+		+	
<u>Campylaspis canaliculata</u> Zimmer, 1936								+		+	+
<u>Campylaspis nodulosa</u>								+		+	
<u>Campylaspis</u> sp. a						+	+				
<u>Cyclaspis nubila</u> Zimmer, 1936	+	+	C	C							
<u>Diastylis</u> sp. a			+	C	+	+	+	+	C	+	+
<u>Diastylis</u> sp. b				C	+					C	+
<u>Diastylis</u> spp.	+	+	+	C	+	+	+	+	+	C	C
<u>Diastylopsis tenuis</u> Zimmer, 1936	+	+	C	+	+	+			+		
<u>Eudorella pacifica</u> Hart, 1930						+			+	+	C
<u>Eudorellopsis longirostris</u> Given, 1961			+							+	
<u>Hemilamprops californica</u> Zimmer, 1936	C	C	C	C	C	C	C	C	C	C	+
<u>Lamprops</u> spp.	+										
<u>Leptostylis</u> sp.										+	
<u>Mesolamprops</u> sp. a	C	+	+		+						
Tanaidacea											
<u>Leptochelia dubia</u> (Kroyer, 1842)				+	+	+					
<u>Leptognathia</u> spp.	+		+		+	+	+	+			

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
Isopoda											
<u>Austrosignum</u> nr. <u>tillerae</u> Menzies & Barnard, 1959	+			+		+	+	+		+	
<u>Bathycopea daltonae</u> (Menzies & Barnard, 1959)	+	C	C	+							
<u>Edotea sublittoralis</u> Menzies & Barnard, 1959	+	+	C	+	+	+	+			+	
<u>Gnathia crenulatifrons</u> Monod, 1926			+				+	+	+	+	C
<u>Haliophasma geminata</u> Menzies & Barnard, 1959				+		+	+				+
<u>Idarcturus allelomorphus</u> Menzies & Barnard, 1959						+					
<u>Tecticeps convexus</u> Richardson, 1899			+								
Amphipoda											
Ampeliscidae											
<u>Ampelisca compressa</u> Holmes, 1908			+		+	C	C	C	C	+	+
<u>Ampelisca cristata</u> Holmes, 1908			C	C	C	C	+	C	C	+	+
<u>Ampelisca hancocki</u> Barnard, 1954	+					+	+	+	+	+	C
<u>Ampelisca macrocephala</u> (Lilljeborg, 1842)			C		+	C	+	C	C	+	+
<u>Ampelisca pacifica</u> Holmes, 1908										+	+
<u>Ampelisca pugetica</u> Stimpson, 1864			+			+	+	C	+	+	+
<u>Ampelisca romigi</u> Barnard, 1954							+				
<u>Ampelisca shoemakeri</u> Barnard, 1954							+			+	+

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Byblis veleronis</u> Barnard, 1954			+				+	+	+	C	C
Amphilochoideae											
<u>Gitanopsis</u> spp.			+			+			+		
Aoridae											
<u>Aoroides columbiae</u> Walker, 1898	+		C	C		C	+	+			
Argissidae											
<u>Argissa hamatipes</u> (Norman, 1869)		+	+	C	+	+	+	+	+	+	+
Atylidae											
<u>Atylus</u> spp.	+	+									
Corophiidae											
<u>Corophium</u> ? <u>baconi</u> Shoemaker, 1934			+								
<u>Corophium</u> spp.				+	+	+					
<u>Erichthonius</u> spp.			+	C	+	+					
Gammaridae											
<u>Anisogammarus</u> ? <u>confervicolus</u> (Stimpson, 1856)											+
<u>Megaluropus longimerus</u> Schellenberg, 1925	+	+	C	+	+	+	+	+		+	
<u>Melita desdichada</u> Barnard, 1962											+
Haustoriidae											

SPECIES		1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Eohaustorius sencillus</u> Barnard, 1962		C										
Isaeidae												
<u>Gammaropsis thompsoni</u> (Walker, 1898)				+								
<u>Photis bifurcata</u> Barnard, 1962				+	+		+					
<u>Photis brevipes</u> Shoemaker, 1942				+	C		+	+	+	+		
<u>Photis californica</u> Stout, 1913		+	+	+	C	+	+	+	+	+		
<u>Protomedela (cheirimedela) zotea</u> Barnard, 1962		+		+	A	C	C	+		+		
<u>Protomedela articulata</u> Barnard, 1962		+			+	+	+					+
<u>Protomedela penates</u> Barnard, 1966		+	+	+	C	C	+	+	C	+	+	C
Ischyroceridae												
<u>Ischyrocerus ? pelagops</u> Barnard, 1962		+	+	+	+	+						
Liljeboriidae												
<u>Metriella diffusa</u> Barnard, 1959		+			+	+		+		+	+	
Lysianassidae												
<u>Hippomedon denticulatus</u> (Bate, 1857)											+	
<u>Hippomedon zetesimus</u> Hurley, 1963								+		+		
<u>Lysianassa oculata</u> (Holmes, 1908)				+		+	+	+	+	+	+	
<u>Opisa tridentata</u> Hurley, 1963									+			

SPECIES	1105	1154	1153	1159	1168	1177	1175	1156	1152	1176	1155
? <u>Orchomene</u> spp.										+	
<u>Pachynus barnardi</u> Hurley, 1963			+		+	+		+	+		+
Oedicerotidae											
<u>Bathymedon roquedo</u> Barnard, 1962			+		+	+	+	+	+	+	+
<u>Monoculodes spinipes</u> Mills, 1962	+	+	+		+						
<u>Synchelidium</u> spp.	+	+	+	+	+	+	+	+	+	+	+
Pardaliscidae											
<u>Nicippe tumida</u> Bruzelius										+	
Phoxocephalidae											
<u>Heterophoxus oculatus</u> (Holmes, 1908)										C C	C
<u>Metaphoxus frequens</u> Barnard, 1960										+	
<u>Paraphoxus bicuspidatus</u> Barnard, 1960	+		C			+		C	C C	C C	C
<u>Paraphoxus</u> ? <u>cognatus</u> Barnard, 1960			+								
<u>Paraphoxus</u> nr. <u>daboivus</u> Barnard, 1960	C	C	+	C	C	C	A	+	+		+
<u>Paraphoxus epistomus</u> (Shoemaker, 1938)	C	+	C		C	C	C	C	C	+	
<u>Paraphoxus lucubrans</u> Barnard, 1960	C	+		+	+	+	C				
<u>Paraphoxus obtusidens</u> (Alderman, 1936)			+	+							
<u>Paraphoxus similis</u> Barnard, 1960							+		+	C	C

SPECIES	1105	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Paraphoxus spinosus</u> (Holmes, 1903)		+									
<u>Paraphoxus variatus</u> Barnard, 1960	+		C		+	+	A	A	C	C	C
Podoceridae											
<u>Dulichia</u> spp.	+	+	+	+	+						
Synopiidae											
<u>Tiron biocellata</u> Barnard, 1962		+	+	+							
Caprellidae											
<u>Caprella angusta</u> Mayer, 1903					C	+	+				
<u>Caprella californica</u> Stimpson, 1857	+		+	C	+	+	C				
<u>Caprella mendax</u> Mayer, 1903				C		+					
<u>Mayerella banksia</u> Laubitz, 1970				+		+		+	+		
<u>Tritella pilimana</u> Mayer, 1890			C	C	+	+			+		
Decapoda											
Natantia											
<u>Crago ? nigromaculata</u> (Lockington, 1877)	+		+	+	+		+			+	+
<u>Crago</u> sp. a	+										
<u>Crago</u> sp. b	+										
<u>Spirontocaris ? palpator</u> (Owen, 1939)				+							

SPECIES	1108	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
<u>Spirontocaris ? taylori</u> (Stimpson, 1857)				+							
Anomura											
<u>Callianassa</u> spp.	+	C	+	C	+	+	C	+	C	C	C
<u>Pagurus granosimanus</u> (Stimpson, 1859)	+	+	+	+							
<u>Pagurus setosus</u> (Benedict, 1892)						+					
Berchyura											
<u>Cancer jordanii</u> Rathbun, 1900	+	+	+	+	+	+	+	+	+	+	+
<u>Opisthus transversus</u> Rathbun, 1893	+	+			+				+		
<u>Pinnixa franciscana</u> Rathbun, 1918	+	+	+	C	A	C	C	A	+	+	
<u>Pinnixa occidentalis</u> Rathbun, 1893		+		+			C	C	+	C	C
<u>Pinnixa</u> spp.	C		+	+	C	+	C	C	C		C
<u>Pugettia gracilis</u> Dana, 1851				+							
<u>Pugettia richii</u> Dana, 1851			+								
<u>Scleroplax granulata</u> Rathbun, 1893			+		+	+	+	+	+		
ARACHNOIDEA											
Pycnogonida											
<u>Ammothella menziesi</u> Hedgpeth, 1961			+								
<u>Ammothella</u> sp. a	+			C	+	+	+	+		C	C

SPECIES	1103	1154	1153	1159	1158	1177	1175	1156	1152	1176	1155
ASTEROIDEA											
Phanerozonia											
? <u>Leptychaster</u> spp.						+	+	+	+	+	+
Ophiuroidea											
Amphiuridae											
<u>Amphiodia occidentalis</u> (Lyman, 1860)			+								
<u>Amphiodia urtica</u> (Lyman, 1860)	+	+	C	+	+	C	+	A	C	A	A
<u>Amphioplus hexacanthus</u> Clark, 1911	+	+	A	+	+	C	C	A	A	+	+
<u>Amphura arcystata</u> Clark, 1911			+			+	+	C	+	+	+
<u>Dougaloplus amphacantha</u>					+			+		+	C
Echinoidea											
Clypeastroida											
<u>Dendraster</u> spp.	C	+	C	+			+				
Spatangoida											
<u>Brisaster townsendi</u> (Agassiz)										+	+
OSTEICHTHYES											
Teleostei											
<u>Chilara taylori</u>						+	+		+		

